No. 1150

Rec'd from S. Hutson USGS 3/8/93

Table 2.--Self-supplied commercial and industrial water users, Clinch 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)
Anderson							
*United States Department of Energy, Y-12 Plant (3498); Oak Ridge	19D	6,000	Clinch River, Melton Hill Lake (41.5) Oak Ridge WS	See additional information -	2.141 6.776	0.087	Category 5. Total storage in Melton Hill Lake equals 94,100 acre-feet at normal minimum pool elevation of 790 feet above sea level. This provides ample water to meet Y-12's water demands for more than 90 days. Product - Weapons components. Storage capacity equals 6,000,000 gallons.
Roane							
*Harriman Paperboard Corporation (2631); Harriman	20B	148	Emory River (11.4) Harriman UD	0.060 -	1.000 .100	-	Category 4. Product - Paperboard. Occasional flooding and turbidity. Storage capacity equals 1,000,000 gallons.
*United States Department of Energy, Oak Ridge Gaseous Diffusion Plant (2819); Oak Ridge	19D	4,037	Clinch River, Watts Bar Lake (between 11.5 and 14.5)	See additional information	10.378	.453	Category 5. Total storage in Watts Bar Lake equals 796,000 acre-feet at normal minimum pool elevation of 735 feet above sea level. This provides adequate water to meet this industry's water demands for more than 90 days. Product - Uranium enrichment. Storage capacity equals 29,550,000 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)
Greene							
*Ball Metal and Chemical Corporation (3356); Greeneville	14A	200	Sinking Creek (2.6) Greeneville WC	1.500 -	0.768 .220	-	Category 3. Product - Rolled zinc. Storage capacity equals 5,000,000 gallons.
*Nolichucky Sand Company (1442); Greeneville	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 - Greeneville WC	141.000 -	.150 .001	.002	Category 3. Product - Sand.
*Pet Inc. (2023); Greeneville	14B	132	Spring (1) Greeneville WC	.634 -	.300 .034	.006	Category 7. Product - Condensed and evaporated milk products. Storage capacity equals 100,000 gallons.
*Tennessee Electrominerals Corporation (3295); Greeneville	14A	170	Holly Creek (5.4) Greeneville 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.
Hamblen							
*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.
Jefferson							
*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.
Knox							
*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 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)
Carter							
*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.
Hawkins							
*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.
Jefferson							
*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 24.--Self-supplied commercial and industrial water users, Upper Tennessee 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)
Knox							
*Candora Marble Company (1411); Knoxville	17	75	Well (1) Knoxville Utilities Board	0.720 -	0.150 .001	-	Category 7. Product - Marble.
*East Tennessee Packing Company (5142); Knoxville	17	400	Wells (3) Knoxville Utilities Board	1.440 -	.720 .010	0.025	Category 7. Product - Distribution of meat products. Storage capacity equals 252,720 gallons.
*Southern Cast Stone Company, Inc. (3272); Knoxville	17	134	Well (1) Knoxville Utilties Board	.127 -	.144 .035	.028	Category 7. Product - Precast concrete building materials
Loudon							
*Greenback Industries, Inc. (3399); Greenback	18C	103	Unnamed tributary of Baker Creek Tellico Area Services System	See additional information -	.125 .013	.007	Category 5. Source capacity data for this unnamed tributary of Baker Creek is not available due to inadequate records. Product - Metallic powder. Storage capacity equals 40,000 gallons.
*Union Carbide Corporation, Films Packaging Division (2821); Loudon	21A	500	Tennessee River (591.8) Loudon UD	893.100 -	2.931 .042	.102	Category 1. The controlling upstream reservoir for this reach of the Tennessee River is Fort Loudoun Dam located at river mile 602.3 on the Tennessee River. Product - Cellulose food casing. Storage capacity equals 250,000 gallons.

Rec'd from S Hutson USGS 3/8/93

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region
(Modified from F.M. Alexander and others, 1984)

[PWSID, Public Water System Identification number; Mgal/d, million gallons per day; gal/d, gallons per day; BPU, Board of Public Utilities; BU, Board of Utilities; FUD, First Utility District; PUB, Public Utility Board; PWD, Power and Water Department; SS, Services System; UB, Utility Board; UC, Utility Commission; UD, Utility District; W & S, Water and Sewer Commission; WC, Water Cooperative; WD, Water Department; WS, water System; *, less than 50 connections, ground-water sole source; **, surface-water system; ***, transfer-water system; ---, not applicable; a, incomplete data for 1988, estimate; b, 1985 estimate; principal aquifer: 1, alluvial; 2, Tertiary sand; 3, Cretaceous sand; 4, Pennsylvanian sandstone; 5, Mississippian carbonate; 6, Ordovician carbonate; 8, Cambrian-Ordovician carbonate; 9, crystalline rock; Co., county]

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
			Tennessee region							
Anderson										
016 Andersonville Utility District	Clinton UB			0.151		0.280	2,342	120	0.06	---
	Norris WC			.129						
120 Clinton Utility Board	Clinch River (66.3)	8	1.33		0.151	1.77	12,428	142	3.20	2.25
	Gill Spring		.138							
	Coker Spring		.078							
	Hallsdale-Powell UD			.111						
	Anderson Co. UB			.261						
383 Lake City Water Department	North Anderson UD			.243		.243	2,295	106	.75	---
513 Norris Water Commission	Clear Creek Spring[1]	8	.315		.129	.186	1,755	106	.250	.432
514 North Anderson County Utility District	Anderson Co. UB	8		.429	.317	.889	8,564	104	1.98	.748
	Shetterly Spring		.235							
	Clinch River (77.8)		.542							
	Clinton UB			.000						
522 Oak Ridge Department of Public Works	Rust Engineering Company			4.89		4.89	28,976	169	3.80	---
768 Anderson County Utility Board	Clinch River, Melton Hill Reservoir (52.4)		.987		.714	.273	2,141	128	1.00	2.00

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Anderson										
772 Rust Engineering Company	Clinch River (41.6)		17.5		4.89	12.6	3,310	3807	7.00	17.2
869 Twilight Zone Mobile Home Park	well		*			*	135	*	---	---
Bedford										
044 Bell Buckle Water System	Wartrace WS			0.136		.136	1,046	130	.100	---
512 Bedford County Utility District #2	Wartrace WS			.044		.044	122	361	.225	---
517 Bedford County Utility District #1	Duck River (202.4) Shelbyville WS		.633	.000		.633	5,656	112	.550	.748
628 Shelbyville Water System	Duck River (227.0)		2.83		.078	2.75	16,566	166	5.00	4.92
629 Flat Creek Cooperative	Shelbyville WS Tullahoma BU			.078 .003		.081	813	100	.100	---
730 Wartrace Water System	spring	6	.525		.180	.345	1,656	208	.225	.500
Benton										
051 Big Sandy Water Department	well	3	.064			.064	806	79	.150	.072

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Benton										
055 Kentucky Lake Heights Water System	2 wells		0.019a			0.019a	172	110a	0.008	0.144
090 Camden Water Department	Tennessee River (100.4)		.906			.906	7,688	118	1.60	1.56
Bledsoe										
551 Pikeville Water System	4 wells	8	.327			.327	2,468	132	1.15	.432
Blount										
007 Alcoa Water System	Little River (9.7)		12.1		1.81	10.3	21,895	470	11.4	24.3
249 Friendsville Utility District	South Blount UD			0.154		.154	1,830	84	.250	---
438 Maryville Utilities Board	Little River (about 17.3) Alcoa WS		2.64	 .000	.523	2.12	25,107	84	4.25	6.05
439 Edge-O-Town Mobile Home Park	well	8	.005			.005	125	40	---	.057
588 Hickory Hill Trailer Court	well		*			*	87	*	---	---
643 South Blount Utility District	Alcoa WS Maryville UB			1.43 .522	.154	1.80	12,955	139	1.40	---
714 Tuckaleechee Utility Distirct	Alcoa WS Knox-Chapman UD Maryville UB			.379 .005 .001		.385	4,647	83	1.31	---
728 Walland Water System	wells		*			*	76	*	.012	.086

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Blount										
805 Bays Mountain Mobile Home Park	spring		*			*	73	*	0.005	0.010
Bradley										
117 Cleveland Utilities	Hiwassee River (about 22.0)	8	3.00		0.982	5.10	43,050	118	11.5	7.28
	Waterville Spring		1.25							
	Hiwassee UC			1.83						
118 Bachman Memorial Home	well	8	.014			.014	65	215	.060	---
564 Prospect McDonald Utility District	Cleveland Utilities			.760		.760	7,175	106	.015	---
782 Casson's Apartments Water System	well		*			*	86	*	---	.072
831 Hiwassee Utility Commission	Hiwassee River (about 22.5)		2.93		2.24	.69	3,310	208	2.00	7.50
Campbell										
322 Caryville-Jacksboro Utility Commission	Cove Lake (impoundment)		.182			.256	5,446	47	1.15	.328
	N Anderson Co. UD			.074						
	La Follette WD			.000						
374 La Follette Water Department	Ollis Creek (impoundment) (0.8)		1.15			1.15	15,929	72	2.06	3.32
Carroll										
081 Bruceton Water System	well	3	.256			.256	1,767	145	.500	.864

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Carroll										
115 Clarksburg Utility District	2 wells	3	0.111			0.111	940	118	0.210	0.138
310 Hollow Rock Water Department	2 wells	3	.070			.070	1,012	69	.050	.259
Carter										
060 Blue Springs Utility District	FUD Carter Co.			0.136		.136	1,156	118	.100	---
094 First Utility District of Carter County	Campbell Spring Elizabethton WD	8	.755	.000	0.136	.619	4,546	136	1.17	.720
221 Elizabethton Water Department	Big Springs Hampton Spring Milligan Spring Valley Forge Spring	8	.701 2.58 .467 1.51		.298	4.96	24,443	203	6.85	6.35
223 North Elizabethton Water Cooperative	Elizabethton WD			.116		.116	929	125	.100	---
282 Hampton Utility District	spring	8	.601		.328	.273	2,655	103	.672	.835
584 Roan Mountain Utility District	spring wells	9	.054 .000			.054	800	68	.100	.093
633 Siam Utility District	Elizabethton WD			.182		.182	2,065	88	.100	---
646 South Elizabethton Utility District	Hampton UD			.328		.328	4,129	79	.450	---
802 Peters Hollow Water System	Peters Branch (1.5)		**			**	143	**	.004	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Claiborne										
022 Arthur-Shawanee Utility District	Davis Creek[2] (impoundment)		0.000			0.571	4,327	132	0.750	1.44
	Powell River (65.0)		.571							
113 Claiborne County Utility District	Ball Creek Spring[2] (impoundment)		.721			.721	7,683	94	1.10	.864
161 Cumberland Gap Water Services	Lincoln Memorial University			0.038		.038	248	153	.340	---
290 Lincoln Memorial University	spring	4	.172		0.038	.134	1,100	122	.068	.400
Cocke										
500 Newport Water System	French Broad River (87.1)		2.88		.029	2.85	14,588	195	3.67	6.00
501 L W Hooper Water System	Newport WS	8		.029		.063	328	192	.015	.053
	spring		.016							
	well		.018							
Coffee										
429 Manchester Water Department	Duck River UC			1.60	.268	1.33	9,742	137	2.40	---
430 Hillsville Utility District	Manchester WD			.268		.268	3,061	88	.400	---
715 Tullahoma Board of Utilities	Duck River UC			2.27	.314	1.96	20,353	96	4.20	2.48
821 Duck River Utility Commission	Duck River, Normandy Reservoir (about 255.0)		3.90		3.87	.000	0	0	.660	7.50

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Coffee										
830 Arnold Village	well #1 well #12	5	0.036 .000			0.036	38	947	0.020	---
879 Shady Grove Mobile Home Park	well		*			*	102	*	---	---
880 Stacey Ann's Mobile Home Park	wells		*			*	125	*	---	---
Cumberland										
147 Crab Orchard Utility District	Crossville WD			0.594		.594	6,600	90	.950	---
150 Crossville Water Department	Obed River, Holiday Hills Lake (at the head of the river) (40.2)		2.55		1.11	1.90	12,133	157	2.59	4.42
	Meadow Creek, Meadow Park Lake (8.0)		.46							
158 Catoosa Utility District	Crossville WD			.230		.230	3,580	64	.300	---
159 Lantana Utility District	Crossville WD			.250		.250	3,231	77	.600	---
Decatur										
186 Decaturville Water System	well	6	.147			.147	1,354	109	.400	.200
541 Parsons Water Department	Beech River (10.0)		.497		.079	.418	3,381	124	.600	1.73

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Decatur										
543 Perryville Utility District	Parsons WD			0.079		0.079	1,211	65	0.050	---
Dickson										
191 Dickson Water Department	impoundment		1.13		0.26	1.12	8,988	125	2.47	1.04
	Turnbull UD			.250						
	wells		.000							
Franklin										
046 Belvidere Rural Utility District	well	5	0.132			.132	861	153	.050	.216
101 Center Grove-Winchester Springs Utility District #1	Tullahoma BU			.311		.311	2,105	148	.500	---
146 Cowan Board of Public Utilities	spring	5	.178			.178	2,238	80	.250	.504
187 Decherd Water Department	2 wells	5	.283			.283	3,272	86	.400	.504
232 Estill Springs Water Department	Estill Spring	5	.375			.375	2,907	129	.575	.540
317 Huntland Water System	well # 1	5	.109			.149	1,148	130	.400	.285
	well # 2		.033							
	well # 3		.007							
623 Sewanee Utility District	Lake Jackson		.000		0.026	.293	3,591	82	.406	.691
	Lake O'Donnell		.319							
754 Winchester Water System	Elk River, Tims Ford Reservoir (154.0)		1.57			1.57	12,697	124	1.55	3.02

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Giles										
018 Ardmore Water System	well (Tennessee) wells (Alabama)	5	0.129 .171			0.300	1,960	153	0.150	0.331
419 Lynnville Water Department	Fairview UD			0.051		.051	644	79	.075	---
469 Minor Hill Utility Corporation	Pulaski WS			.252		.252	2,457	103	.300	---
562 Pulaski Water System	Richland Creek (24.1)		2.11		0.528	1.58	9,233	171	4.12	3.60
563 Fairview Utility District	Pulaski WS			.139	.051	.088	734	120	.100	---
566 Tarpley Shop Utility District	Pulaski WS			.137		.137	1,589	86	.100	---
649 South Giles Utility District	Richland Creek (2.2)		.136			.136	2,239	61	.450	.288
Grainger										
041 Bean Station Utility District	Morristown WD			.362		.362	2,990	121	.500	---
600 Rutledge Water System	Morristown WD			.111		.111	1,241	89	.400	---
846 Lakeshore Heights Subdivision	well #1 well #2		* *			*	125	*	---	.064
Greene										
108 Chuckey Utility District	Greeneville PWD Jonesboro WD Glen Hills UD			.385 .000 .000		.385	4,836	80	.500	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Greene										
149 Cross Anchor Utility District	Greeneville PWD			0.406		0.406	4,046	100	0.100	0.100
266 Glen Hills Utility District	Greeneville PWD			.564		.564	5,886	96	3.92	1.00
273 Greeneville Power and Water Department	Nolichucky River (57.2)		6.35		1.93	4.42	22,367	198	5.70	10.0
274 North Greene Utility District	Cross Anchor UD			.000		.303	3,178	95	.800	.115
	Lick Creek (49.7)		.263							
	Mosheim UD			.040						
478 Moshiem Utility District	Greeneville PWD			.192	0.062	.130	1,570	83	.500	---
530 Old Knoxville Highway Utility District	Greeneville PWD			.381		.403	3,440	117	.350	---
	Mosheim UD			.022						
Grundy										
122 Big Creek Utility District	Ranger Creek (about 500 feet upstream from Highway 56)		.638		.085	.553	5,124	108	1.49	1.21
470 Monteagle Public Utility Board	Laurel Creek Lake		.236		.021	.241	1,931	125	.200	.270
	Sewanee UD			.026						
706 Tracy City Water System	spring #1	4	.360			.360	2,913	124	.625	.720
	spring #2		.000							
	wells		.000							
850 Monteagle Sunday School Assembly	Monteagle PUB			.021		.021	525	40	.300	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Hamblen										
014 Alpha-Talbott Utility District	Morristown WD			1.00		1.00	11,325	88	1.10	---
474 Morristown Water Department	Holston River, Cherokee Lake (75.3)	8	6.22		2.38	3.84	29,747	129	7.71	10.2
	Havley Spring Creek		.000							
	Havley Spring		.000							
	wells		.000							
476 Rine's Trailer Court	well		*			*	74	*	---	---
598 Russellville Whitesburg Utility District	Morristown WD			.723	.091	.632	8,263	76	.450	---
650 South Morristown-Witt Utility District	Morristown WD			.181		.181	2,114	86	.301	---
Hamilton										
037 Union Fork-Bakewell Utility District	3 wells	8	.184			.184	1,756	105	.300	.158
107 Tennessee-American Water Company	Tennessee River (465.0)		40.7		.842	39.9	175,142	228	19.43	72.0
168 Mowbray Mountain Utility District	Soddy-Daisy UD			.081		.081	1,008	80	.250	.230
169 Soddy-Daisy-Falling Water Utility District	well #2	8	.927		.081	1.73	8,352	207	1.90	2.07
	Soddy Creek embayment (4.0)		.881							
	Soddy well #1		.000							

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Hamilton										
219 Eastside Utility District	Tennessee American Water Company	8		0.000	0.009	3.76	23,984	157	3.90	4.00
	4 wells		3.77							
303 Hixson Utility District	Cave Springs	8	5.61			5.61	46,149	122	5.12	9.22
	rock quarry		.000							
605 Sale Creek Utility District	2 wells	8	.169			.169	997	170	.400	.368
613 Savannah Valley Utility District	well #1	8	.798			.798	5,425	147	1.43	.936
	well #2		.000							
634 Signal Mountain Water System	Tennessee American Water Company			.842		.842	6,583	128	1.55	---
635 Walden Ridge Utility Department	2 wells	8	.526			.526	5,233	101	1.20	.737
776 White Oak Mountain Water Association	Eastside UD			.009		.009	95	95	.018	---
Hancock										
640 Sneedville Utility District	Brier Creek (1.1)	8	.099			.210	1,717	122	.475	.712
	Fall Branch Spring		.111							
Hardin										
546 Hardin County Board of Public Utilities	Tennessee River (at Pickwick Dam, about 207.0)		.329			.329	2,894	114	.650	.519
606 Saltillo Utility District	well	3	.081			.081	885	92	.150	.504

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Hardin										
611 Savannah Public Utilities Department	6 wells	1	1.73			1.73	13,041	133	1.35	2.54
Hawkins										
082 Bulls Gap Utility District	Russellville Whitesburg UD			0.091		.091	1,025	89	.250	---
092 Pressman's Home	well		*			*	97	*	.245	.360
109 First Utility District of Hawkins County #1	Alexander Creek (0.7)		0.564			.681	5,890	116	.800	2.01
	Hord Creek (1.5)		.117							
384 Lakemont Utility District	well	8	.006			.006	137	44	.012	.036
472 Mooresburg Utility District	spring	8	.068			.068	598	114	.250	.046
593 Rogersville Water System	Big Creek (1.2)		1.16		0.332	.828	6,432	129	1.25	2.00
594 Persia Utility District	Rogersville WS			.181		.181	2,235	81	.325	---
596 Lakeview Utility District	Rogersville WS			.075		.075	1,264	59	1.60	---
673 Striggersville Utility District	Rogersville WS			.076		.076	499	152	1.60	---
682 Surgoinsville Utility District	Jennings Spring	8	.127			.127	1,513	84	.350	.288

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Hawkins										
761 New Canton Utility District	FUD of Hawkins Co #2			0.028		0.028	257	109	---	---
855 First Utility District of Hawkins County #2	Lee Spring Hamilton Spring	8	0.487 .184		0.028	.643	5,720	112	0.450	0.792
Henderson										
402 Lexington Water System	Beech River, Beech Reservoir (35.5)		2.78			2.78	14,712	189	2.57	4.00
609 Sardis Water System	wells	3	.057			.057	819	70	.050	.086
614 Scotts Hill Water System	2 wells	3	.234			.234	2,208	106	.350	.396
Henry										
536 Paris Board of Public Utilities	4 wells	3	2.17		.202	1.97	12,152	162	2.30	6.05
537 South Paris Water Cooperative	Paris BPU			.124		.124	1,300	95	2.30	---
568 Puryear Water System	2 wells	2	.075			.075	864	87	.225	.172
838 Northwest Henry County Utility District	Paris BPU			.078		.078	1,235	63	.150	---
Hickman										
066 Bon Aqua-Lyles Utility District	Mill Creek (9.9) MacFarland Spring		.398 .000			.398	3,900	102	.300	.648
103 Centerville Water System	Big Swan Creek (1.1)		.890			.890	5,370	166	1.45	1.15

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Hickman										
533 Turney Center	Duck River (40.0)		0.252			0.252	1,150	219	1.00	0.296
Houston										
698 Tennessee Ridge Water System	2 wells	5	.141			.141	2,635	54	.600	.187
Humphreys										
420 McEwen Water Department	well #1 well #2	5	.203 .000			.203	1,946	104	.400	.432
497 New Johnsonville Water Department	Tennessee River, Kentucky Lake (100.5)		.373			.373	1,681	222	0.800	1.15
733 Waverly Water Plant	2 wells Duck River (8.3)	5	.472 .661			1.13	5,907	191	1.10	1.52
Jefferson										
170 Dandridge Water Department	spring well well #1	8	.057 .208 .000		0.002	.263	2,346	112	.818	.612
171 Bush Brothers #1	Weaver Hall well		*			*	37	*	---	---
328 Jefferson City Water and Sewer Commission	Jarnigan Mine[1] Mossy Creek Spring	8	1.26 .247		.636	.871	6,029	144	2.74	5.00
329 Baneberry Utility District	well #1 well #2	8	.013 .001			.014	253	55	---	.288

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Jefferson										
385 Mountain View Water System	Dandridge WD well	8	 0.007	0.000		0.007	84	83	---	0.040
499 New Market Utility District	Jefferson City Waste-water and Sewer			.281		.281	2,843	99	0.448	---
626 Shady Grove Utility District	Dandridge WD Knoxville UB #2 Jefferson City W & S			.002 .148 .355		.505	5,070	100	.200	---
746 White Pine Water System	South Morristown-Witt UD well #1 well #2	8	 .097 .088	.000		.185	1,863	99	.200	.216
789 Wilmore Estates Water System	well	8	.010			.010	110	91	.006	.096
843 Bush Brothers #2	McGaha Road well		*			*	34	*	---	---
Johnson										
085 Carderview Utility District	Unnamed tributary well	8	.015b .002b			.017b	200b	85b	.102	.132
479 Mountain City Water Department	Rambo Spring Silverlake Spring[1] Silver Lake Spring[3]	8	.255 .843 .069			1.17	6,094	192	2.88	---
480 Brownlow Utility District	Vaughts Creek (3.4)		.023			.023	291	79	.052	---
485 Johnson County Utility District	Leco Spring	8	.079			.079	388	204	.200	.777

Rec'd from S Hutson USGS 3/8/93

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Knox										
217 Knoxville Utilities Board #2	French Broad River (3.4)		0.790		0.148	1.32	10,962	120	2.75	3.18
	Holston River (9.3)		.682							
280 Hallsdale-Powell Utility District	Beaver Creek (32.0)	8	.949		.111	4.05	33,000	123	4.17	3.66
	Granny Bright Spring		.283							
	Fowler Springs		.709							
	Bull Run Creek, Melton Hill Reservoir (3.8)		2.22							
366 Knoxville Utilities Board #1	Tennessee River (649.2)		31.4			31.4	151,379	207	23.22	50.0
367 Knox-Chapman Utility District	French Broad River (3.4)		1.92		.005	1.92	17,875	107	2.56	2.59
369 First Utility District of Knox County	Knoxville UB #1	8		0.000	.075	4.34	37,495	116	5.19	7.78
	Tennessee River, (617.5)		4.22							
	Walker Springs		.194							
	West Knox UD			.000						
	Sinking Creek embayment (617.2)		.000							
371 West Knox Utility District	Clinch River, Melton Hill Reservoir (36.5)		1.08			3.67	33,045	111	4.08	7.60
	Clinch River, Melton Hill Reservoir (46.5)		2.59							

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Knox										
515 Northeast Knox Utility District	Holston River (9.6)		1.04			1.04	11,072	94	2.17	2.30
762 Little Creek Sanitarium	Little Creek Spring	8	.048			.049	205	239	.050	.048
	FUD Knox County			0.001						
Lawrence										
239 Fall River Road Utility District	Lawrenceburg WS			.096		.096	1,083	89	.075	---
320 Iron City Utility District	Holly Creek[2]		.074			.074	540	137	.150	.086
	City Spring		.000							
389 Northeast Lawrence Utility District	Lawrenceburg WS			.063		.063	821	77	.100	---
391 New Prospect Utility Dictrict	Lawrenceburg WS			.107		.107	1,080	99	.100	---
392 Lawrenceburg Water System	Shoal Creek (55.9)	5	2.25		0.339	2.98	13,968	213	3.65	8.00
	City Spring		1.07							
399 Leoma Utility District	spring	5	.103			.103	1,305	79	.100	.144
408 Loretto Water Department	Stillhouse Spring	5	.186			.186	2,160	86	.473	.368
604 St. Joseph Water System	spring	5	.084			.084	1,050	80	.300	.156
676 Summertown Water System	2 wells	5	.096			.096	1,200	80	.150	.180
677 Ethridge Utility District	Lawrenceburg WS			.073		.073	1,224	60	.150	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Lawrence										
740 Westpoint Utility District	Factory Creek (4.2)		0.017			0.017	342	50	0.050	0.072
Lewis										
304 Hohenwald Water System	Downey Spring	5	.103			.898	5,668	158	.800	1.51
	well #1		.303							
	well #2		.492							
678 The Farm Water System	Laundry well	5	.034			.034	350	97	.005	---
Lincoln										
242 Fayetteville Water System	Elk River (93.9)	5	2.59		.201	3.01	10,596	284	3.10	5.21
	Teal Hollow Spring		.624							
243 Norris Realty Company	Fayetteville WS			0.010		.010	102	98	3.12	---
346 Kelso Water Department	Fayetteville WS			.011		.011	78	141	3.12	---
489 Mulberry Utility District	Fayetteville WS			.032		.032	472	68	.055	---
764 Lincoln County Board of Public Utilities #1	wells (Elora)	5	.276			.845	9,801	86	1.10	.432
	wells (Taft)		.468	.101						
	Fayetteville WS									
Loudon										
396 Lenoir City Utility Board	Tennessee River (601.3)		.993		0.218	.775	7,532	103	1.88	3.01
397 Dixie Lee Utility District	Allen Fine Spring	8	.539		.132	.699	6,325	111	1.05	.864
	Lenoir City UB			.218						
	FUD Knox County			.074						

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Loudon										
409 Loudon Utilities Board	Roberson Spring Tennessee River (593.0)	8	0.175 4.97			5.15	6,078	847	5.65	8.20
410 Piney Utility District	spring	8	.230			.230	1,967	117	.325	.172
434 Martel Utility District	Dixie Lee UD			0.132		.132	1,600	83	.025	---
832 Freda Bell Mobile Home Park	well		*			*	44	*	---	---
871 Tellico Village Property Owner's Association	Tellico Area SS			.069		.069	146	473	1.80	---
McMinn										
024 Athens Utilities Board	Ingleside Spring Oostanaula Creek (35.2)	8	1.76 1.66			3.42	13,828	247	4.00	4.15
025 Hillside Trailer Park	well		*			*	56	*	---	---
026 Malone Trailer Park	well #1 well #2		* *			*	62	*	---	---
028 Johnson Trailer Park	well		*			*	42	*	---	---
106 Calhoun-Charleston Utility District	Hiwassee Utility Commission			.098		.098	1,483	66	.200	---
224 Englewood Water Department	Middle Creek (near State Highway 39 and L&N Railroad crossing)		.259			.259	2,638	98	.695	.576

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
McMinn										
233 Etowah Utility District	Hiwasse River (42.6)		1.85		0.111	1.74	8,391	207	3.10	2.75
510 Niota Water System	Hiwassee Utility Commission			0.240		.240	1,630	147	.335	---
576 Riceville Utility District	Hiwassee Utility Commission			.072		.072	787	91	.060	.060
771 Tall Oaks Apartments	well		*			*	115	*	---	---
866 Eastwood Apartments	well		*			*	32	*	---	---
McNairy										
002 Adamsville Water System	well	3	.609			.609	5,195	117	.625	.720
454 Michie Water Department	wells	3	.241			.241	1,867	129	.200	.205
Marion										
278 Griffith Creek Utility District	Big Creek UD			.085		.085	993	86	.080	---
325 Jasper Water Department	Blue Spring Sequatchie River (6.0)	8	.735 .062			.797	6,153	130	1.42	1.60
535 Orme Water System	creek springs	8	.000 .005			.005	103	49	---	---
616 Sequatchie Water Works	Blowing Cave Spring	8	.086			.086	527	163	.011	.136
651 South Pittsburg Water System	Tennessee River (about 417.0)		.995			.995	4,881	204	1.54	2.10

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Marion										
749 Whitwell Water Department	Sequatchie River (22.0)		0.454		0.113	0.341	3,355	102	1.01	1.20
750 West Valley Water System Incorpaorated	Whitwell WD			0.113		.113	1,612	70	.100	---
Marshall										
104 Chapel Hill Water System	Marshall Co BPU #1	6		.004		.115	949	121	.100	---
	Town Well		.111							
105 Marshall County Board of Public Utilities #1	Lewisburg WS			.188	.004	.184	1,651	111	.417	---
139 Cornersville Water Department	Lewisburg WS			.108		.108	930	116	.200	---
400 Lewisburg Water System	Duck River (181.0)		2.50		.337	2.16	11,591	186	5.40	4.51
	City Lake		.000							
544 Petersburg Water System	Fayetteville WS			.047		.047	772	61	.250	---
857 Marshall County Board of Public Utilities #2	Lewisburg WS			.014		.014	171	82	---	---
858 Marshall County Board of Public Utilities #3	Lewisburg WS			.027		.027	302	89	---	---
Maury										
128 Columbia Water Department	Duck River (133.7)		8.01		.816	7.19	36,875	195	12.50	15.24
488 Mount Pleasant Water System #1	springs	6	.931			.931	5,504	169	1.15	1.15

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Maury										
667 Spring Hill Water Department	Columbia WD			0.564	0.354	0.210	1,475	142	1.00	---
770 Maury County Water System	Columbia WD			.121		.121	4,377	28	.100	---
867 Mount Pleasant Water System #2	Columbia WD			.131		.131	543	241	---	---
Meigs										
183 Decatur Water Department	Eaves Spring Big Spring	8	0.331 .084			.415	1,729	240	.600	0.576
Monroe										
425 Madisonville Water Department	Tellico Area SS			.636		.636	5,690	112	1.65	---
426 Hiwassee College	Hiwassee Spring	8	.119			.119	500	238	.138	.120
687 Sweetwater Utility Board	Sweetwater Creek (21.6) Cannon Spring	8	1.19 1.10			2.29	7,688	298	2.60	2.21
693 Tellico Plains Water Department	wells	8	.355			.355	2,207	161	.400	.576
726 Tellico Area Services System	Little Tennessee River, Tellico Reservoir (about 19.2)		.962		.705	.257	1,570	164	1.30	3.46

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Moore										
416 Lynchburg Water Department	East Fork Mulberry Creek (14.4)		0.169			0.169	1,132	149	0.200	0.288
	Tennessee River, Tims Ford Reservoir (414.0)		.000							
Morgan										
520 Brushy Mountain Prison	impoundment (surface runoff and runoff from a mine)		.147			.147	500	294	.700	1.03
729 Plateau Utility District	Crooked Fork Creek (6.3)	4	.000			.404	3,912	103	.400	.414
	wells		.404							
755 Wolfe Branch Utility District	Harriman UB			0.134		.134	2,022	66	.206	---
Perry										
404 Linden Water Department	Buffalo River (43.0)		.244			.244	1,734	141	.500	.972
406 Lobelville Water Department	Buffalo River (29.6)		.141			.141	1,000	141	.300	.288
Polk										
048 Benton Water System	springs	8	.130			.207	2,003	103	.250	---
	Ocoee WS			.070						
	Hiwassee Water Coop			.007						
049 Hiwassee Water Cooperative	Etowah UD			.111	0.007	.104	800	130	---	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Polk										
136 Copperhill Water Department	springs	8	0.114			0.114	773	147	0.460	0.093
138 Cherokee Hills Utility District	4 springs	8	.047			.047	325	145	.055	.086
525 Ocoee Water System	Cleveland Utilities Wildwood Spring	8	.556	0.222	0.070	.708	5,460	130	.600	1.15
844 Copper Basin Utility District	Campbell Cove Lake		.146			.146	1,484	98	1.10	.576
Rhea										
174 Dayton Water Department	Tennessee River (503.9)		1.47		.153	1.32	8,180	161	1.75	2.05
176 Hill Lake Water System	well #1 well #2		* *			*	66	*	---	---
178 Laurelbrook Sanitarium School	well #2 well #1	4	.021 .000			.021	165	127	.055	.090
180 Mount Vista Mobile Home Park	well		*			*	74	*	---	---
235 Evensville Utility District	Dayton WD			.153		.153	1,539	99	---	---
269 Graysville Water Department	wells	4	.217			.217	1,491	146	.180	.518
656 Spring City Water System	Piney River, Watts Bar Reservoir (568.4) spring	8	.195 .216			.411	2,708	152	.750	.656

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Rhea										
657 Newport Resort Water System	well	8	0.009			0.009	86	105	0.015	0.043
663 Yost Trailer Park	well #1 well #3		.002 .000			.002	45	44	---	---
863 Grandview Utility District	Crossville WD			0.036		.036	992	36	.270	---
872 Watts Bar Utility District	wells		*			*	527	*	---	---
Roane										
287 Harriman Utility Board	Emory River (12.9)		1.59		0.180	1.41	9,320	151	1.80	3.11
360 Kingston Water System	spring Tennessee River, Watts Bar Reservoir (about 5.7)	8	.163 .571			.734	6,598	111	.136	2.00
361 Lewands Water System	well		*			*	78	*	---	---
457 Midtown Utility District	Rockwood WS			.276		.276	3,167	87	.400	---
523 Oliver Springs Water	Anderson Co. UB Bacon Spring	8	.506	.024		.530	5,089	104	1.00	.864
531 Cumberland Utility District	Dickey Spring Little Emory River (3.0) Mill Spring	8	.172 .715 .000			.887	7,050	126	2.15	1.27

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	Withdrawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Population served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Roane										
590 Rockwood Water System	Tennessee River, Watts Bar Reservoir (553.0)		1.47		0.276	1.19	8,470	140	3.00	6.00
686 Swan Pond Utility District	Harriman UB			0.046		.046	549	84	---	---
Sequatchie										
205 Dunlap Water System	Sequatchie River (about 44.6)		.464			.464	3,830	121	1.50	.864
208 Old Union Water System	spring		*			*	28	*	.004	---
Sevier										
256 Gatlinburg Water Department	West Prong Little Pigeon River (at the Great Smoky Mountains National Park boundary)	9	1.48		.047	1.75	7,331	239	5.85	2.89
	Pigeon Forge WS well #1		.049	.267						
261 Webb Creek Utility District	7 wells	9	.039			.039	628	62	.980	.086
270 Great Smoky Mountains National Park	well	9	.012			.012	150	80	.200	.504
548 Pigeon Forge Water System	Walden Creek (8.9)		1.34		.267	1.07	4,852	221	1.65	2.60

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Sevier										
617 Sevierville Water System	East Prong Little Pigeon River (7.3)		1.20			1.20	8,344	144	1.40	2.02
618 East Sevier County Utility District	2 wells	9	.009			.009	120	75	.238	.086
620 Mountain View Trailer Park	well		*			*	27	*	---	---
841 Norton Creek Water System	spring well		* *			*	83	*	---	---
849 Chalet Village North	Gatlinburg WD well	9	.040	0.047		.087	602	145	.110	---
868 Cate's Mobile Home Park	well		*			*	52	*	---	---
873 Condo Villas of Gatlinburg	Gatlinburg WD			***		***	527	***	.500	.792
Sullivan										
056 Bloomingdale Utility District	Reedy Creek (11.2) Kingsport WD		1.09	.000		1.09	10,910	100	1.30	1.38
057 Blountville Utility District	Bristol WS			.390		.390	7,568	52	.400	---
058 Tri-Cities/Sullivan Utility District	Bristol-Bluff City Utility District			.059		.059	1,792	33	.250	---
059 11-W Utility District	Bristol WS			.106		.106	1,106	96	.250	---
061 Bluff City Water System	Underwood Spring	8	.231		0.003	.228	1,760	130	.300	---

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Sullivan										
062 Chinquapin Grove Utility District	Wildcat Springs Johnson City WD Bluff City WS	8	0.070	0.021 .003		0.094	1,580	59	0.100	0.208
073 Bristol Water System	South Fork Holston River (48.2)		5.21		0.999	4.21	26,475	159	6.10	10.10
074 Holston Utility District	Bristol WS			.151		.151	1,690	89	---	---
078 Jacobs Creek Job Corps System	Little Jacob Creek (2.5)		.022			.022	220	100	.050	.057
079 Bristol-Bluff City Utility District	South Fork Holston River (35.6)		.908		.125	.783	3,707	211	1.40	1.38
319 Intermont Utility District	Bristol WS			.032		.032	385	83	---	---
349 Kingsport Water Department	South Fork Holston River (6.4)		15.6		.295	15.3	71,172	215	13.9	---
351 Long Island Utility District	Kingsport WD			.219		.219	300	730	---	---
644 South Bristol-Weaver Pike Utility District	Bristol WS Bristol-Bluff City WD			.320 .125		.445	3,781	118	---	---
854 Foxfire Homeowners-Association	2 wells		*			*	75	*	.035	---
Unicoi										
229 Temple Hill Utility District	Erwin Utilities			.136		.136	1,124	121	.150	.288

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Unicoi										
231 Erwin Utilities	A. McPhearson Spring	8	0.422		0.375	0.904	11,154	81	1.99	2.33
	Birchfield Spring		.431							
	O'Brien Spring		.426							
719 Unicoi Water Utility District	Erwin Utilities			0.239		.239	2,535	94	.200	---
Union										
415 Luttrell-Blaine-Corryton Utility District	Big Spring	8	.344			.344	3,034	113	.221	---
	Booker Spring		.000							
	Phipps Spring		.000							
442 Maynardville Water Department	Davis Spring	8	.085			.268	2,427	110	.020	.238
	Lay Spring		.183							
443 Ailor Trailor Park	3 wells		*			*	71	*	---	---
799 Beard Valley Mobile Home Park	2 wells		*			*	50	*	---	---
860 Welch Mobile Home Park	well		*			*	29	*	---	---
Washington										
237 Fall Branch Utility District	Kingsport WD	8		.076		.172	2,118	81	---	---
	spring		.096							
331 Johnson City Water Department	spring	9	3.18		.021	13.4	65,368	205	11.8	16.0
	Watauga River (17.5)		10.2							
338 Jonesboro Water Department	Dry Creek	8	0.22			1.96	13,414	114	3.51	4.70
	Nolichucky River (about 86.0)		.000							
	Sinking Creeks[1]		1.74							

Supplement A.--Public water-supply systems and associated water use in the Tennessee hydrologic region (Modified from F.M. Alexander and others, 1984)--Continued

County, PWSID, and system	Source of supply (intake river mile)	Principal aquifer	With-drawal (Mgal/d)	Water purchased (Mgal/d)	Water sold (Mgal/d)	Gross water use (Mgal/d)	Popula-tion served	Gross per capita use (gal/d)	Storage capacity (million gallons)	Design capacity (million gallons)
Wayne										
119 Clifton Water Department	Tennessee River (158.2)		.107			.107	1,440	74	.500	.324
127 Collinwood Water Department	4 springs	5	.198			.198	1,803	110	.300	.288
736 Waynesboro Water System	Green River (13.6)		.383			.383	3,105	123	.600	.865

[1]Ground water
[2]River mile unknown
[3]Surface water

Rec'd from S Hutson USGS 3/8/83

Table 1.--Precipitation data by watershed subdivision for the period 1970-79, Clinch River basin

Watershed description	Precipitation (inches)				
	High	Year	Low	Year	10-year average
Powell River upstream from Arthur	64.40	1972	46.80	1976	55.84
Clinch River upstream from Tazewell	58.50	1972	41.00	1970	49.98
Clinch River from Norris Dam to Tazewell and the Powell River downstream from Arthur.	67.80	1973	47.10	1976	56.04
Clinch River from Kingston to Norris Dam.	72.40	1973	49.80	1970	58.80
Emory River upstream from Oakdale	75.10	1973	49.90	1976	60.38

Table 11.--Average discharge data for selected hydrologic data stations operated by the U.S. Geological Survey, Upper Cumberland River basin

Station name and location (county)	River mile	Drainage area (square miles)	Period of record (years)	Average discharge		
				Cubic feet per second	Inches per year	Cubic feet per second per square mile
Bills Branch near Hembree (Scott).	0.7	0.67	5	1.91	38.71	2.85
New River at New River (Scott).	8.6	382	46	745	26.48	1.95
Clear Fork near Robbins (Scott).	3.7	272	46	473	23.62	1.74
East Fork Obey River near Jamestown (Fentress).	12.7	202	38	424	28.51	2.10
West Fork Obey River near Alpine (Overton).	8.0	115	30	160	18.89	1.39
Wolf River near Byrdstown (Pickett).	26.2	106	38	192	24.60	1.81
Cumberland River at Celina (Clay).	380.8	7,307	58	11,800	21.93	1.61
Roaring River upstream from Gainesboro (Jackson).	9.1	210	6	315	20.37	1.50
Collins River near McMinnville (Warren).	19.5	640	56	1,178	25.00	1.84
Caney Fork near Rock Island (White).	90.3	1,678	66	3,218	26.04	1.92

Table 15.--Average discharge data for selected hydrologic data stations, Duck-Buffalo River basin

Station name and location (county)	River mile	Drainage area (square miles)	Period of record (years)	Average discharge		
				Cubic feet per second	Inches per year	Cubic feet per second per square mile
Duck River downstream from Manchester (Coffee).	265.4	107	46	189	23.99	1.77
Duck River near Shelbyville (Bedford).	216.2	481	47	832	23.49	1.73
Duck River at Columbia (Maury).	132.8	1,208	64	2,020	22.70	1.67
Big Bigby Creek at Sandy Hook (Maury).	17.9	17.5	27	28.8	22.35	1.65
Piney River at Vernon (Hickman).	8.3	202	55	317	21.31	1.57
Duck River upstream from Hurricane Mills (Humphreys).	26.0	2,557	55	4,151	22.05	1.62
Buffalo River near Flatwoods (Perry).	58.7	447	60	757	23.00	1.69
Buffalo River near Lobelville (Perry).	17.7	707	53	1,197	22.99	1.69

Table 23.--Average discharge data for selected hydrologic data stations operated by the U.S. Geological Survey, French Broad River basin

Station name and location (county)	River mile	Drainage area (square miles)	Period of record (years)	Average discharge		
				Cubic feet per second	Inches per year	Cubic feet per second per square mile
French Broad River near Newport (Cocke).	77.5	1,858	62	3,009	21.99	1.62
Cosby Creek upstream from Cosby (Cocke).	10.7	10.1	14	28.5	38.32	3.79
Pigeon River at Newport (Cocke).	6.8	666	63	1,258	-	1.89
Nolichucky River at Embreeville (Washington).	89.0	805	61	1,374	23.18	1.71
Little Pigeon River at Sevierville (Sevier).	4.4	353	60	573	22.04	1.62
French Broad River near Knoxville (Knox).	7.5	5,101	35	7,966	21.21	1.56

Table 1.--Public water-supply facilities, Clinch 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)
Anderson									
*Anderson County Utility Board	19D	2,275	650	Clinch River, Melton Hill Reservoir (52.4)	See additional information	2.000	0.800	184.2	Category 5. Total storage in Melton Hill Reservoir equals 94,100 acre-feet at normal minimum pool elevation of 790 feet above sea level. This provides adequate water to meet Anderson County Utility Board's water demands for more than 90 days. Average water use is expected to increase to 1.200 Mgal/d within the next year due to the anticipated hookup of the Lake City and Caryville - Jacksboro UD's. Storage capacity equals 1,250,000 gallons.
**First UD of Anderson County	19D	6,405	1,830	Coker and Gill Springs (2)	0.288	N/A	.224	65.7	Categories 5 and 7. Storage capacity equals 1,225,000 gallons.
				Anderson County Utility Board	-		.167		
				Hallsdale - Powell UD	-		.030		
**North Anderson County UD	19D	10,029	2,910	Clinch River (R.M. 77.8)	32.900	.576	.576	72.7	Categories 1 and 7. Storage capacity equals 1,825,000 gallons.
				Shetterly Spring (1)	.288		.288		
				Anderson County Utility Board	-		.164		
				Clinton Utilities Board	-		.001		
***Lake City WS	19D	2,097	830	North Anderson County UD	-	N/A	.300	143.1	Categories 1 and 7. Storage capacity equals 750,000 gallons.

Table 1.--Public water-supply facilities, Clinch 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)
Anderson--Continued									
**Oliver Springs WS	19D	4,600	1,800	Bacon Spring Anderson County Utility Board	.281 -	.285	.778 .050	180.0	Categories 5 and 8. Occasional turbidity problems after heavy rainfall. Storage capacity equals 1,000,000 gallons.
*Clinton Utilities Board	19D	4,925	2,222	Clinch River (66.3)	33.900	2.500	1.261	247.9	Category 1. Occasional turbidity problems. Storage capacity equals 2,290,000 gallons.
*Norris WS	19D	2,500	562	Spring (1)	.346	.432	.320	100.0	Category 7. Although this system's plant design capacity is 0.432 Mgal/d, it can pump up to 0.532 Mgal/d under emergency conditions. Storage capacity equals 350,000 gallons.
**Andersonville UD	19D	2,223	635	Norris WS Clinton Utilities Board	- -	N/A	.070 .040	49.5	Categories 1 and 7.
*Oak Ridge WS+	19D	22,642	7,917	Clinch River, Melton Hill Reservoir (41.5)	See additional information	16.370	.800	35.3	Category 5. Total storage in Melton Hill Reservoir equals 94,100 acre-feet at normal minimum pool elevation of 790 feet above sea level. This provides adequate water to meet Oak Ridge's water demands for more than 90 days.
Campbell									
*La Follette WD	19C	13,670	5,000	Ollis Creek (Impoundment)	See additional information	2.500	1.200	79.4	Category 5. Ollis Creek impoundment has an estimated storage capacity of about 660 acre-feet of which 600

Table 1.--Public water-supply facilities, Clinch 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)
Campbell--Continued									acre-feet or about 195,000,000 gallons of water could be utilized for water supply purposes with no inflow. This provides adequate water to meet La Follette's water demands from Ollis Creek impoundment for more than 90 days. Limited storage for treated water and inadequate booster pump capacity. Storage capacity equals 1,500,000 gallons.
**Caryville - Jacksboro UD	19C	6,940	2,000	Cove Lake (Impoundment) La Follette WD	See additional information -	0.340	0.330 .115	64.1	Category 5. Cove Lake impoundment has an estimated storage capacity of about 1,730 acre-feet of which 930 acre-feet or about 303,000,000 gallons of water could be utilized for water supply purposes with no inflow. This provides adequate water to meet Caryville - Jacksboro's water demands from Cove Lake impoundment for more than 90 days. Storage capacity equals 700,000 gallons.
Claiborne									
*Arthur - Shawnee UD	19B	5,496	1,285	Powell River (65.0) Davis Branch (Impoundment)	47.200 See additional information	1.296	.425 .050	62.6	Categories 3 and 6. Davis Branch impoundment has an estimated storage capacity of about 10 acre-feet of

Table 1.--Public water-supply facilities, Clinch 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)
Claiborne--Continued									
									which 9 acre-feet or about 3,000,000 gallons of water could be utilized for water-supply purposes with no inflow. This does not provide adequate water to meet Arthur - Shawnee's water demands from Davis Branch impoundment for 90 days. Storage capacity equals 800,000 gallons.
**Lee County Water Authority	-	2,223	635	Arthur - Shawnee UD	-	N/A	0.131	58.9	Categories 3 and 6. The Lee County Water Authority serves a part of Lee County in southwest Virginia. Storage capacity equals 200,000 gallons.
*Claiborne County UD	19A	7,525	2,150	Ball Creek Spring (1)	3.000	0.900	.500	66.4	Category 7. Storage capacity equals 2,165,000 gallons.
*Lincoln Memorial University WS	19B	1,310	111	Spring (1)	.144	.150	.142	95.4	Category 7. Occasional supply shortages during drought periods and turbidity after heavy rains. Storage capacity equals 340,000 gallons.
**Cumberland Gap WS	19B	286	110	Lincoln Memorial University WS	-	N/A	.017	59.4	Category 7. This system serves a part of southeast Kentucky in Bell County.
Cumberland									
*Crossville WS	20A	20,000	3,776	Obed River (Holiday Hills Lake at the head of the river)	See additional information	4.000	1.800	66.9	Category 5. Together both Holiday Hills and Meadow Park Lakes have an estimated storage capacity of about 8,200

Table 1.--Public water-supply facilities, Clinch 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)
Cumberland--Continued									
				Meadow Creek (Meadow Park Lake)	See additional information		.300		acre-feet of which 3,300 acre-feet or about 1.1 billion gallons and 4,300 acre-feet or about 1.4 billion gallons of water respectively could be utilized for water supply purposes with no inflow. This provides adequate water to meet Crossville's water demands from each lake for more than 90 days. Storage capacity equals 2,100,000 gallons.
**Catoosa UD	20A	2,860	1,100	Crossville WS	-	N/A	0.147	51.4	Category 5. Storage capacity equals 300,000 gallons.
**Crab Orchard UD	20A	2,513	547	Crossville WS	-	N/A	.465	113.4	Category 5. Storage capacity equals 950,000 gallons.
***Fairfield Glade WS	20A	2,770	1,108	Crab Orchard UD	-	N/A	.180	65.0	Category 5. Storage capacity equals 1,000,000 gallons.
**Lantana UD	20A	3,280	875	Crossville WS	-	N/A	.150	45.7	Category 5. Some water losses due to leaks in the system's distribution lines. Storage capacity equals 200,000 gallons.
Hancock									
*Sneedville UD	19A	1,272	415	Spring (1)	0.140	0.503	.188	147.8	Category 8. Water losses due to leaks in the system's distribution lines. Storage capacity equals 475,000 gallons.

Table 1.--Public water-supply facilities, Clinch 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)
Knox									
*Hallsdale - Powell UD	19D	35,880	11,960	Fowler Spring (1)	.873	3.788	1.300	114.8	Categories 3, 5, and 8. Total storage in Melton Hill Reservoir equals 94,100 acre-feet at normal minimum pool elevation of 790 feet above sea level. This provides adequate water to meet Hallsdale - Powell's water demands for more than 90 days. Hallsdale - Powell UD sells about 0.030 Mgal/d of water to First UD of Anderson County. Storage capacity equals 3,700,000 gallons.
				Granny Bright Spring (1)	.288		.476		
				Beaver Creek (32.0)	1.600		.444		
				Bull Run Creek, Melton Hill Reservoir (3.8)	See additional information		.951		
Morgan									
*Brushy Mountain Prison WS	20B	727	1	Reservoir which is fed by surface water runoff and ground water from a mine	See additional information	0.864	0.120	165.1	Category 5. The estimated storage capacity of this reservoir is about 120 acre-feet of which 110 acre-feet or about 36,000,000 gallons of water could be utilized for water-supply purposes with no inflow. This is adequate to meet Brushy Mountain Prison's water demands for more than 90 days. Storage capacity equals 500,000 gallons.
*Plateau (Wartburg) UD	20B	4,330	990	Crooked Fork Creek	0.000	.415	.175	80.8	Categories 4 and 7. Storage capacity equals 450,000 gallons. The district also has access to a 1,000,000 gallon storage tank
				Wells (3)	.216		.175		

Table 1.--Public water-supply facilities, Clinch 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)
Morgan--Continued									
									owned by the Cumberland UD in Roane County.
Roane									
*Cumberland UD	20B	7,000	2,100	Little Emory River (3.0)	.000	.864	.300	71.4	Categories 4 and 7. Storage capacity equals 2,200,000 gallons.
				Springs (2)	.200		.200		
*Harriman UD	20B	8,303	3,335	Emory River (12.9)	.060	3.000	2.030	212.8	Category 4. Occasional periods of discoloration. Storage capacity equals 4,775,000 gallons.
**Swan Pond UD	20B	900	180	Harriman UD	-	N/A	.033	36.7	Category 4.
**Wolf Branch UD	20B	1,968	654	Harriman UD	-	N/A	0.230	116.9	Category 4. Continually increasing water losses due to repeated and numerous breaks in some 7.0 miles of water mains and distribution lines. Storage capacity equals about 109,000 gallons.
Union									
*Maynardville WS	19D	1,240	620	Spring (1)	0.110	0.216	.110	88.7	Category 7. Limited water storage and turbidity during drought conditions. Storage capacity equals 650,000 gallons.

Table 11.--Public water-supply facilities, French Broad 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)
Cocke									
*Newport WS	13A	13,922	4,520	French Broad River (87.1)	279.00	6.000	3.000	215.5	Category 3. High chlorine demand and drastic fluctuations in turbidity during heavy rain. Storage capacity equals 3,915,000 gallons.
Greene									
*Greeneville WC	14A	25,000	7,411	Nolichucky River (57.2)	145.000	6.000	5.500	170.4	Category 3. Excessive turbidity and siltation problems at the water intake. Storage capacity equals 38,700,000 gallons.
**Cross Anchor UD	14B	3,365	1,078	Greeneville WC	-	N/A	.285	84.7	Category 3. Storage capacity equals 100,000 gallons.
**Glen Hills UD	14A	5,039	1,610	Greeneville WC	-	N/A	.442	87.7	Category 3.
***Chuckey UD	14A	4,091	1,307	Greeneville WC Glen Hills UD	- -	N/A	.312 .044	87.0	Category 3. Chuckey UD also serves a part of Washington County. Storage capacity equals 600,000 gallons.
**Mosheim UD	14B	1,596	510	Greeneville WC	-	N/A	.145	81.5	Category 3. Storage capacity equals 500,000 gallons.
***North Greene UD	14B	2,817	900	Mosheim UD Lick Creek (49.7)	- 6.600	.115	.015 .100	40.8	Category 3. Occasional turbidity problems. Storage capacity equals 1,225,000 gallons.
Jefferson									
*Dandridge WD	13D	2,316	713	Wells (3) Springs (2)	.504 .245	.345	.080 .165	105.8	Category 7. Storage capacity equals 880,000 gallons.

Here Tabl

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)
Jefferson--Continued									
*Lakeland UD	13D	40	10	Wells (2)	-	N/A	.003	75.0	Category 9. Storage capacity equals 10,000 gallons.
*White Pine WD	13D	1,980	625	Wells (2)	0.144	0.400	0.168	84.8	Category 8. Storage capacity equals 200,000 gallons.
Knox									
*Forks of the River Industrial Park WS	13D	2,670	32	French Broad River (2.8)	132.000	2.000	.745	279.0	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. Occasional turbidity problems. Storage capacity equals 2,553,500 gallons.
*Knox - Chapman UD	13D	16,405	5,578	French Broad River (3.4)	132.000	2.500	1.500	91.4	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. Storage capacity equals 2,838,000 gallons.
Sevier									
*English Mountain WS	13D	376	41	Well (1)	-	.086	.016	42.6	Category 9. This system serves 40 homes and 118 condominiums. Storage capacity equals 72,000 gallons.

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)
Sevier--Continued									
*Pigeon Forge WS	13D	7,200	1,260	Walden Creek (8.9)	1.600	2.600	.680	80.6	Category 3. The Pigeon Forge WS serves about 4,100 people during the winter and 11,700 people during the summer with an estimated mean of about 7,200 people. Maximum connections equal about 1,260. Poor water quality due to fecal coliform from upstream campgrounds. Storage capacity equals 2,320,000 gallons.
**Gatlinburg WS	13D	16,000	2,048	West Prong Little Pigeon River (at the Great Smoky Mountains National Park boundary) Well (1) Pigeon Forge WS	5.000 .072 -	2.000	1.800 .065 .100	122.8	Categories 3 and 7. Population served by this system ranges from about 3,000 during the winter to 35,000 during the summer with the estimated mean being about 16,000. Total connections ranges from a minimum of 1,979 to a maximum of 2,117 with the estimated mean being about 2,048. Storage capacity equals 7,078,000 gallons.
***Chalet Village North UD	13D	486	139	Gatlinburg WS	-	N/A	.016	32.9	Categories 3 and 7. Storage capacity equals 100,000 gallons.
*Sevierville WS	13D	7,598	2,630	East Prong Little Pigeon River (7.3)	1.900	2.000	.900	118.5	Category 3. Occasional industrial spills and some turbidity during heavy rain. Storage capacity equals 1,900,000 gallons.

Table 1.--Precipitation data by watershed subdivision for the period 1970-79, Clinch River basin

Watershed description	Precipitation (inches)				
	High	Year	Low	Year	10-year average
Powell River upstream from Arthur	64.40	1972	46.80	1976	55.84
Clinch River upstream from Tazewell	58.50	1972	41.00	1970	49.98
Clinch River from Norris Dam to Tazewell and the Powell River downstream from Arthur.	67.80	1973	47.10	1976	56.04
Clinch River from Kingston to Norris Dam.	72.40	1973	49.80	1970	58.80
Emory River upstream from Oakdale	75.10	1973	49.90	1976	60.38

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)
Jefferson--Continued									
*Lakeland UD	13D	40	10	Wells (2)	-	N/A	.003	75.0	Category 9. Storage capacity equals 10,000 gallons.
*White Pine WD	13D	1,980	625	Wells (2)	0.144	0.400	0.168	84.8	Category 8. Storage capacity equals 200,000 gallons.
Knox									
*Forks of the River Industrial Park WS	13D	2,670	32	French Broad River (2.8)	132.000	2.000	.745	279.0	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. Occasional turbidity problems. Storage capacity equals 2,553,500 gallons.
*Knox - Chapman UD	13D	16,405	5,578	French Broad River (3.4)	132.000	2.500	1.500	91.4	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. Storage capacity equals 2,838,000 gallons.
Sevier									
*English Mountain WS	13D	376	41	Well (1)	-	.086	.016	42.6	Category 9. This system serves 40 homes and 118 condominiums. Storage capacity equals 72,000 gallons.

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)
Sevier--Continued									
*Pigeon Forge WS	13D	7,200	1,260	Walden Creek (8.9)	1.600	2.600	.680	80.6	Category 3. The Pigeon Forge WS serves about 4,100 people during the winter and 11,700 people during the summer with an estimated mean of about 7,200 people. Maximum connections equal about 1,260. Poor water quality due to fecal coliform from upstream campgrounds. Storage capacity equals 2,320,000 gallons.
**Gatlinburg WS	13D	16,000	2,048	West Prong Little Pigeon River (at the Great Smoky Mountains National Park boundary) Well (1) Pigeon Forge WS	5.000 .072 -	2.000	1.800 .065 .100	122.8	Categories 3 and 7. Population served by this system ranges from about 3,000 during the winter to 35,000 during the summer with the estimated mean being about 16,000. Total connections ranges from a minimum of 1,979 to a maximum of 2,117 with the estimated mean being about 2,048. Storage capacity equals 7,078,000 gallons.
***Chalet Village North UD	13D	486	139	Gatlinburg WS	-	N/A	.016	32.9	Categories 3 and 7. Storage capacity equals 100,000 gallons.
*Sevierville WS	13D	7,598	2,630	East Prong Little Pigeon River (7.3)	1.900	2.000	.900	118.5	Category 3. Occasional industrial spills and some turbidity during heavy rain. Storage capacity equals 1,900,000 gallons.

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)
Sevier--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.
Unicoi									
*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.
Washington									
*Jonesboro UD	14A	17,745	5,070	Nolichucky River (about 86.0)	109.000	4.000	1.250	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.
				Spring (1)	.720		.275		

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)
Carter									
*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)
Grainger									
*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.
Hamblen									
*Morristown WS	16A	33,250	9,500	Holston River, Cherokee Reservoir (75.3)	See additional information	10.000	4.067	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.
				Spring (1)	0.550		1.743		
**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)
Hamblen--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.
Hawkins									
*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.
*Mooresburg 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)
Sullivan--Continued									
*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.
Washington									
*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 15

Table 23.--Public water-supply facilities, Upper Tennessee 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)
Blount									
*Alcoa WS	17	21,000	6,000	Little River (9.7)	31.000	24.000	11.506	478.4	Category 3. Storage capacity equals 12,000,000 gallons.
**South Blount County UD	17	18,000	4,500	Alcoa WS Maryville WS	- -	N/A	1.200 .033	68.5	Category 3. Maryville WS supplies water to South Blount County on an emergency basis only averaging about 33,000 gallons per day. Inadequate storage for treated water. Storage capacity equals 950,000 gallons.
***Friendsville WS	17	1,971	563	South Blount County UD	-	N/A	.130	66.0	Category 3. Storage capacity equals 250,000 gallons.
**Tuckaleechee UD	17	4,550	1,300	Alcoa WS	-	N/A	.260	57.1	Category 3. Acute water-supply problems due to limited pumping and line capacity. Pressure losses at higher elevations. Currently, Tuckaleechee is engaged in litigation with Alcoa regarding its right to purchase water from Maryville due to Alcoa's periodic inability to provide Tuckaleechee with adequate water supplies. Storage capacity equals 250,000 gallons.
*Calderwood Village WS+	17	44	15	First Creek (about 1.8)	1.700	.110	.011	250.0	Category 3.

Table 23

Table 23.--Public water-supply facilities, Upper Tennessee 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)
Blount--Continued									
*Maryville WS	17	17,000	8,268	Little River (about 17.3)	29.000	6.000	2.300	133.4	Category 3. Storage capacity equals 3,500,000 gallons. Completion of the Foothills Mall in the spring of 1983 has not significantly increased this system's water use.
*Walland WS	17	67	28	Well (1)	.086	N/A	.002	29.9	Category 7. Storage capacity equals 12,000 gallons.
Knox									
*First UD of Knox County	17	26,000	10,400	Tennessee River (617.5)	1,322.000	4.500	4.000	155.6	Categories 1 and 7. The controlling upstream reservoirs for this reach of the Tennessee River are Cherokee and Douglas Dams located at river miles 52.3 and 32.3 on the Holston and French Broad Rivers, respectively. Storage capacity equals 3,800,000 gallons.
				Spring (1)	.450		.045		
*Knoxville Utilities Board	17	186,100	55,338	Tennessee River (649.2)	1,293.000	50.000	34.000	177.3	Category 1. The controlling upstream reservoirs for this reach of the Tennessee River are Cherokee and Douglas Dams located at river miles 52.3 and 32.3 on the Holston and French Broad Rivers, respectively. Storage capacity equals 18,600,000 gallons.

Table 23.--Public water-supply facilities, Upper Tennessee 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)
Roane--Continued									
*Rockwood WS	21B	9,600	3,200	Tennessee River (553.0)	1,064.000	6.000	1.500	130.2	Category 1. The controlling upstream reservoirs for this reach of the Tennessee River are Fort Loudoun Dam located at river mile 602.3 on the Tennessee River and Melton Hill Dam located at river mile 23.1 on the Clinch River. Occasional turbidity problems. Storage capacity equals 3,670,000 gallons.
**Midtown UD	21B	4,200	1,050	Rockwood WS	-	N/A	0.250	59.5	Category 1. Storage capacity equals 400,000 gallons.

Table 23