

WATER – RESOURCES INVESTIGATIONS IN TENNESSEE: PROGRAMS AND ACTIVITIES OF THE U.S. GEOLOGICAL SURVEY, 1987-1988



[Click here to return to USGS Publications](#)

LOAN COPY
Ret. 1 week

U.S. GEOLOGICAL SURVEY
Open-File Report 88-322



OTHER ACTIVITIES

COOPERATIVE EDUCATION STUDENTS ASSIST IN PROGRAMS

The USGS in Tennessee is actively involved in cooperative education programs with colleges and universities across Tennessee. The program has been in effect for about 15 years. Cooperative Agreements between the schools, U.S. Office of Personnel Management, and the USGS have been initiated at seven colleges and universities in the State. Presently, the USGS has eight coop students from three universities working in six offices.

Coop students work alongside the USGS career professional staff of engineers, geologists, chemists, computer specialists, technicians, and cartographers. They participate in all phases of the investigations conducted by these career professionals - hydrological data collection and processing, research into water problems such as supply and contamination, open-channel flow hydraulics, ground-water hydraulics and modeling, impacts of channel modifications, computer operations and programming, cartography and drafting, and the scientific procedures and methodology used in these scientific and research fields. After initial training is finished, early in the first work term, many of these students perform tasks usually assigned to professional career staff. Reviews conducted by career staff assures that the work is done properly and ensures that training is adequate and continuing. Most students come to work for a term of 6 to 12 months, return to school, and then return for another work term.

The coop student work program provides excellent assistance to the USGS in accomplishing its program and objectives in Tennessee. In addition, the program identifies outstanding potential employees that may choose to seek a professional career with the USGS upon graduation. The USGS assigns a high priority to this program and views it as a study-work partnership between Tennessee colleges and universities and the USGS. Overall, the benefits to the USGS and students have been positive and excellent to all involved. Several of the students are now full-time USGS career professional employees. Jeff May, Assistant District Chief, directs the USGS's coop program in Tennessee.

GROUND-WATER INFORMATION UNIT

The objectives of this newly formed support unit are to ensure maximum utilization of ground-water data collected in Tennessee and to provide diverse support for all ground-water activities in the District. Specific functions of the Ground-Water Information Unit are to:

- Store new ground-water data.
- Clean-up and maintain ground-water data bases.
- Assist personnel in retrieving and plotting data.
- Answer information requests.

The ground-water computer data base maintained by the District is part of a national system run by the USGS, and currently contains information on over 2,600 ground-water sites in Tennessee. Data from the District's data base can be output directly as tables and hydrographs, or can be output to a geographic information system for combining and plotting with other data.

COMPUTER SECTION AND CAPABILITIES

The Tennessee District continued to improve and expand its computer capabilities in support of its programs and cooperators. During 1987, the following milestones were accomplished:

- Six personal computers were installed at various offices in the District. These units are being used for word processing, graphics, and desktop publishing applications.
- In August 1987, the Automated Data Processing System (ADAPS) was installed. All of the District historical data for continuous-record stations were converted. ADAPS has been especially useful for processing our increasing number of satellite stations.
- In October 1987, a Prime 9955-II was installed, replacing the Prime 750. This increased computer power by a factor of four.
- In December 1987, an additional 600 megabyte disk drive was installed, bringing our total storage capacity to 1,800 megabytes.
- Arc/Info was installed on this disk drive in January 1988, allowing the District to begin using digital data for producing spatial graphics.

Next year's plans include the enhancement of district telecommunications with the Subdistrict offices, the acquisitions of additional microcomputers, the refining of Arc/Info skills, the development of programs on the microcomputers, and the development of Arc/Info relations with other agencies.

The computer staff currently consists of Bill Barron, site manager; Joe Connell, Arc/Info specialist; Linda McCashland, computer operator; and Pam Norris, programmer trainee.



The Computer Unit personnel.

REGIONAL PUBLICATION CENTER

The Tennessee district operates a Regional Publication Center and Clearinghouse in support of projects within the District and the 10 other states in the Southeastern Region. Barbara Balthrop is the Chief of the Publication Center. The following is a list of the Center's accomplishments during 1987 and its goals for 1988.

Accomplishments for 1987:

- Staff increased with the hire of two cartographic technicians and one clerk-typist.
- Acquisition of personal computers and specialized software for desktop publishing and publication-quality computer graphics preparation.
- Printing of the "Standards of Illustrations in Reports for the U.S. Geological Survey, Water Resources Division".
- Establishment of a term printing contract for publication of reports.

Goals for 1988:

- Hire of additional personnel to increase Center staff.
- Acquire additional personal computer systems with graphics software.
- Establish a Southeastern Region cartographic services contract for use by all Districts



The Regional Publication Center personnel.

RECENT PUBLICATIONS

The Tennessee Center prepared for publication 3 Water-Resources Investigations Reports, 3 Open-File Reports, 11 journal articles and abstracts, 1 conference program with abstracts, and 6 articles for symposia proceedings. Layout and paste-up for 2 WRD Bulletins for the USGS National Headquarters were completed along with the printing of 6 out-of-District reports. Currently, there are 24 reports in various stages of preparation. In addition to the informal and formal report series work, the Tennessee Center also has published 5 bi-monthly bulletins.

- Baker, E.G., and Massingill, R.C., 1988, Water resources publications of the U.S. Geological Survey for Tennessee, 1906-1987, OFR 87-552.
- Bradley, M.W., 1987, Construction, geologic, and hydrologic data for observation wells in the Reelfoot Lake area, Tennessee and Kentucky, OFR 87-249.
- Brahana, J.V., and Mesko, T.O., 1988, Hydrogeology and preliminary assessment of regional flow in the Upper Cretaceous and adjacent aquifers in the northern Mississippi embayment, WRIR 87-4000.
- Brahana, J.V., Parks, W.S., and Gaydos, M.W., 1987, Quality of water from freshwater aquifers and principal well fields in the Memphis area, Tennessee, WRIR 87-4052.
- Hollyday, E.F., and Balthrop, B.H. (compilers), 1987, Abstracts with program of ground water: Tennessee's hidden asset, A conference: May 6-7, 1987, Nashville, Tennessee.
- Lowery, J.F., Counts, P.H., Edmiston, H.L., and Edwards, F.D., 1987, Water resources data, Tennessee, water year 1986, TN-86-1.
- Miller, R.A., and Balthrop, B.H. (compilers), 1987, Standards for illustrations in reports of the U.S. Geological Survey, Water Resources Division.
- Quinones, Ferdinand, Balthrop, B.H., and Baker, E.G., 1987, Water resources investigations in Tennessee: Programs and activities of the U.S. Geological Survey, 1986-1987, OFR 87-231.
- Tucci, Patrick, 1988, Surface-geophysical investigations in Melton Valley, Oak Ridge Reservation, Tennessee, WRIR 87-4184.

ADMINISTRATIVE SERVICES SECTION

Administrative services to the Tennessee District headquarters and field offices are provided by a unit of four employees directed by Nancy Tedder, Administrative Officer. Personnel management, payroll, training, procurement, inventory control, budgeting, and accounting services are efficiently handled through computerized systems.



The Administrative Services Section personnel.

APPENDIX 1

Active Recording Surface-Water Stations in Tennessee as of 2/29/88

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
CUMBERLAND RIVER BASIN					
03408500	New River at New River	382	362308	843317	1934
03409500	Clear Fork near Robbins	272	362318	843749	1930
03414500	E Fork Obey River nr Jamestown	202	362458	850135	1942
03416000	Wolf River near Byrdstown	106	363337	850423	1942
03417500	Cumberland River at Celina	7,307	363315	853052	1922
03417600	Cumberland River at Penitentiary Branch	7,440	362621	853542	
03418070	Roaring River above Gainsboro	210	362104	853245	1974
03421000	Collins River near McMinnville	640	354232	854346	1925
03422500	Caney Fork near Rock Island	1,678	354826	853744	1911
03425000	Cumberland River at Carthage	10,690	361453	855719	1922
03425100	Cumberland River at Rome	10,866	361550	860410	
03427500	East Fork Stones River nr Lascassas	262	355506	862002	1951
03428200	W Fork Stones River at Murfreesboro	128	355410	862548	1972-82, 1986
03428500	West Fork Stones River near Smyrna	237	355625	862754	1965
03430118	McCrory Cr at Ironwood Dr, at Donelson	7.31	360908	863901	1977
03431062	Mill Creek trib. at Glenrose Ave., at Woodbine	1.17	360702	864337	1977
03431490	Pages Branch at Avondale	2.01	361222	864624	1977
03431517	Cummings Branch at Lickton	2.40	361825	864800	1975
03431700	Richland Creek at Charlotte Avenue, at Nashville.	24.3	360904	865116	1964
03432350	Harpeth River at Franklin	191	355514	865156	1974
03433500	Harpeth River at Bellevue	408	360316	865542	1920
03434500	Harpeth River near Kingston Springs	681	360719	870556	1925
03435000	Cumberland River below Cheatham Dam	14,163	361926	871332	1954
03435008	Cumberland River nr Clarksville	14,421	362956	871948	
03436000	Sulphur Fork Red River near Adams	186	363055	850332	1939
03436100	Red River at Port Royal	935	363317	870831	1961
03436690	Yellow Creek at Ellis Mills	103	361839	873315	1980

APPENDIX 1--Continued

Active Recording Surface-Water Stations in Tennessee as of 2/29/88--Continued

Station		Drainage			Date
No.	Name	area (mi ²)	Lat	Long	began
TENNESSEE RIVER BASIN					
03455000	French Broad River near Newport	1,858	355854	830940	1900
03465500	Nolichucky River at Embreeville	805	361035	822727	1920
03466228	Sinking Creek at Afton	13.7	361155	824431	1977
03470500	French Broad River near Knoxville	5,101	355730	834626	1946
03490500	Holston River at Surgoinsville	2,874	362819	825050	1941
03491000	Big Creek near Rogersville	47.3	362534	825707	1957
03495500	Holston River near Knoxville	3,747	360056	834954	1930
03497300	Little River above Townsend	106	353952	834241	1963
03498500	Little River near Maryville	269	354710	835304	1951
03498860	Little River at Alcoa Water Plant nr Maryville	301	354832	835545	
03528000	Clinch River above Tazewell	1,474	362530	832354	1918
03535912	Clinch River at Melton Hill Dam	3,343	355307	841803	1936
03536320	White Oak Creek near Melton Hill	1.31	355556	841820	1987
03536380	Whiteoak Creek near Wheat				1987
03536440	Northwest Tributary near Oak Ridge	.67	355518	841913	1987
03536450	First Creek near Oak Ridge	.33	355521	841910	1987
03536550	Whiteoak Creek bl Melton Valley Drive near Oak Ridge	3.28	355510	841902	1985
03537050	Melton Branch trib. (East Seven) near Oak Ridge	.24	355507	841743	1987
03537100	Melton Branch near Melton Hill, nr Oak Ridge	.52	355459	841753	1985
03537200	Melton Branch trib. (Center Seven) near Oak Ridge	.07	355503	841754	1987
03537300	Melton Branch trib. (West Seven) near Oak Ridge	.15	355511	841808	1987
03538225	Poplar Creek near Oak Ridge	82.5	355955	842023	1960
03538250	East Fork Poplar Creek near Oak Ridge	19.5	355758	842130	1960
035382672	Bear Creek trib. abv Bear Creek Road near Wheat	.30	355641	841927	1986
035382673	Bear Creek near Wheat	3.20	355639	841927	1986
035382677	Bear Creek tributary near Wheat	.14	355628	841955	1987
03538270	Bear Creek at State Hwy 95 near Oak Ridge		355617	842029	1985
03538272	Bear Creek trib. at Hwy 95 near Wheat	.14	355626	842032	1986
03538273	Bear creek at Pine Ridge near Wheat	5.00	355632	842037	1986
03540500	Emory River at Oakdale	764	355859	843329	1927

APPENDIX 1--Continued

Active Recording Surface-Water Stations in Tennessee as of 2/29/88--Continued

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
TENNESSEE RIVER BASIN--continued					
03543500	Sewee Creek near Decatur	117	353453	844453	1934
03560500	Davis Mill Creek at Copperhill	5.16	345943	842256	1940-41, 1948-78, 1986
03563000	Ocoee River at Emf	524	350548	843207	1913
03564500	Ocoee River at Parksville	595	350548	843915	1911-16, 1921
03565500	Oostanaula Creek near Sanford	57.0	351939	844219	1954
03566000	Hiwassee River at Charleston	2,298	351716	844507	1898-1903, 1914-40, 1963
03566420	Wolftever Creek near Ooltewah	18.8	350343	840359	1964
03567500	South Chickamauga Creek nr Chickamauga	428	350051	851235	1928-78, 1980
03567900	Tennessee River at Citico Bar at Chattanooga	21,372	350319	861704	--
03568000	Tennessee River at Chattanooga	21,380	350512	851643	1874
03571000	Sequatchie River near Whitwell	402	351222	852948	1920
03584500	Elk River near Prospect	1,784	350139	865652	1904-08, 1919
03588000	Shoal Creek at Lawrenceburg	55.4	351440	872102	1932-34, 1967
03588500	Shoal Creek at Iron City	348	350127	873444	1925
03593005	Tennessee River at Pickwick Landing Dam	32,820	350354	881508	1975
03593500	Tennessee River at Savannah	33,140	351329	881526	1930
03598000	Duck River near Shelbyville	481	352849	862957	1934
03600088	Carters Creek at Butler Rd at Carters Creek	20.1	354302	865945	1986
03602500	Piney River at Vernon	193	355216	873005	1925
03603000	Duck River above Hurricane Mills	2,557	355548	874435	1925
03604000	Buffalo River near Flat Woods	447	352945	874958	1920
03604500	Buffalo River near Lobelville	707	354846	874751	1927

APPENDIX 1--Continued

Active Recording Surface-Water Stations in Tennessee as of 2/29/88--Continued

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
OBION RIVER BASIN					
07026000	Obion River at Obion	1,852	361504	891133	1929-58, 1966
07026370	North Reelfoot Creek at State Hwy 22 nr Clayton	56.3	362750	891513	1980-83 1984
07026400	South Reelfoot Creek near Clayton	38.6	362620	891537	1984
07026640	Running Slough near Ledford, Ky.	10.8	363228	891859	1982-83, 1984
07026690	Reelfoot Lake near Phillipy	240	362759	892056	1984
07027000	Reelfoot Lake near Tiptonville	240	362109	892507	1940
07027010	Running Reelfoot Bayou near Owl City	247	361953	892402	1982-83, 1984
HATCHIE RIVER BASIN					
07029500	Hatchie River at Bolivar	1,480	361631	885836	1929
07030100	Cane Creek at Ripley	33.9	354525	893305	1958-62, 1986
LOOSAHATCHIE RIVER BASIN					
07030240	Loosahatchie River near Arlington	262	351837	893823	1969
070303573	Loosahatchie River at North Watkins Street, at Memphis	728	351515	900134	1986
WOLF RIVER BASIN					
07031660	Wolf River at Walnut Grove Road, at Memphis	709	350758	895118	1986
07031694	Harrington Creek trib. at Elmore Park Road, at Bartlett	.33	351208	895126	1975
07031697	Harrington Creek trib. at Stage Road, at Bartlett	.91	351220	895305	1975
07031740	Wolf River at Hollywood St., at Memphis	788	351116	895832	1986
NONCONNAH CREEK BASIN					
07032200	Nonconnah Creek near Germantown	68.2	350259	894908	1969
07032251	Nonconnah Creek at Rivergate Road, at Memphis	182	350432	900355	1986

APPENDIX 1--Continued

Active Crest-Stage Stations in Tennessee as of 2/29/88

[* , Operated as a continuous-record station]

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
CUMBERLAND RIVER BASIN					
03409000	White Oak Creek at Sunbright	13.5	361438	844014	1934, 1955-82, 1985
03418201	Doe Creek at Gainesboro	5.72	362123	853920	1978
03420360	Mud Creek tributary No. 2 near Summitville	2.28	353610	860133	1967
03420600	Owen Branch near Centertown	4.60	354230	855305	1955
03421200	Charles Creek near McMinnville	31.1	354300	854605	1955
03424900	Mulherrin Creek near Gordonsville	26.9	361128	855711	1982, 1986
03425045	Peyton Creek at Monoville	44.7	361837	855921	1986
03425357	Darwin Branch tributary at Hartsville	.66	362354	860908	1986
03425365	Second Creek near Walnut Grove	3.47	362401	861248	1986
03425500	Spring Creek near Lebanon	35.3	361049	861429	1955-61#, 1962
03425700	Spencer Creek near Lebanon	3.32	361420	862403	1955
03426874	Brawleys Fork below Bradyville	15.4	354444	861014	1983
034269424	Reed Creek near Bradyville	3.52	354444	861231	1983
03428043	Lytle Creek at Sanbyrne Drive at Murfreesboro	17.6	354938	862328	1978
03430400	Mill Creek at Nolensville	12.0	355732	864031	1965
03431000	Mill Creek near Antioch	64.0	360454	864050	1954-61#, 1962-63, 1964-75#, 1976
03431040	Sevenmile Creek at Blackman Road at Nolensville	12.2	360421	864400	1965
03431060	Mill Creek at Thompson Lane, near Woodbine	93.4	360704	864308	1965
03431120	West Fork Browns Creek at General Bates Drive, at Nashville	3.30	360629	864707	1965
03431240	East Fork Browns Creek at Baird-Ward Printing Company, at Nashville	1.58	360633	864600	1965
03431340	Browns Creek at Factory Street, at Nashville	13.2	360826	464531	1965
03431550	Earthman Fork at Whites Creek	6.29	361555	864951	1965
03431573	Ewing Creek at Richmond Hill Drive at Parkwood	2.17	361350	864628	1976
03431575	Ewing Creek at Brick Church Pike at Parkwood	3.02	361358	864654	1976
03431578	Ewing Creek at Gwynwood Drive near Jordonia	9.98	361358	864732	1976

APPENDIX 1--Continued

Active Crest-Stage Stations in Tennessee as of 2/29/88--Continued

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
CUMBERLAND RIVER BASIN--Continued					
03431581	Ewing Creek below Knight Road, near Bordeaux	13.3	361355	864814	1976
03431677	Sugartree Creek at YMCA Access Road, at Green Hills	1.51	360613	864912	1976
03431679	Sugartree Creek at Abbott Martin Road, at Green Hills	2.19	360623	864917	1976
03431795	Bednigo Branch trib. at Chestnut Grove	.47	362510	865411	1986
03432470	Murfrees Fork above Burwood	7.43	354858	865720	1986
03432925	Little Harpeth River at Granny White Pike, at Brentwood	22.0	360130	864909	1978
03434590	Jones Creek near Burns	13.3	360615	871905	1984
03434616	Hall Branch near Charlotte	.50	361148	872030	1984
034350021	Bartons Creek near Cumberland Furnace	22.29	361502	872000	1984
0343500213	Bartons Creek tributary near Stayton	.51	361519	871912	1984
03435030	Red River near Portland	15.1	363324	863414	1966-75, 1976
034351113	Honey Run Creek below Cross Plains	25.8	363231	864214	1986
03435930	Spring Creek tributary near Cedar Hill	1.40	363208	865926	1986
03436700	Yellow Creek near Shiloh	124	362055	873220	1957-80#, 1982
TENNESSEE RIVER BASIN					
03461230	Caney Creek near Cosby	1.62	354703	831211	1967
03465607	Cherokee Creek near Embreeville	22.9	361224	822923	1984
03465780	Clear Fork near Fairview	10.5	361933	823347	1983
03466295	Camp Creek at Camp Creek	9.99	360539	824537	1983
03466865	Roaring Fork north of Greeneville	16.1	361245	825015	1983
03466890	Lick Creek near Albany	172	361454	825534	1984
03467480	Bent Creek at Taylor Gap	2.18	361408	830641	1986
03467992	Carter Branch near White Pine	4.25	360705	831855	1986
03467993	Cedar Creek near Valley Home	2.01	360803	831847	1986
03467998	Sinking Fork at White Pine	6.38	360721	831744	1986
03470215	Dumplin Creek at Mt. Hareb	3.65	360459	832551	1986
03476960	Indian Creek at Childress	6.79	362538	821554	1983
03478615	Evans Creek near Blountville	2.50	363119	821812	1983
03481600	Corn Creek at Mountain City	5.34	362923	814852	1959-61, 1963
03487507	Horse Creek at Sullivan Gardens	26.0	362813	823552	1983

APPENDIX 1--Continued

Active Crest-Stage Stations in Tennessee as of 2/29/88--Continued

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began
TENNESSEE RIVER BASIN--Continued					
03490522	Forgey Creek at Zion Hill	0.86	362912	825308	1986
03491490	Dodson Creek tributary near Rogersville	.32	362119	825703	1983
03491540	Robertson Creek near Persia	14.6	362024	830227	1986
03494714	Dry Land Creek trib. near New Market	.20	360333	833413	1986
03494990	Flat Creek at Luttrell	22.4	361145	834444	1986
03519610	Baker Creek tributary near Binfield	2.10	354156	840246	1966-77, 1979
03519640	Baker Creek near Greenback	16.0	354021	864628	1965-75#, 1976
03527800	Big War Creek at Luther	22.3	362718	831429	1986
03528390	Crooked Creek near Maynardville	2.23	361556	835025	1986
03534000	Coal Creek at Lake City	24.5	361314	840927	1932-34#, 1955
03535180	Willow Fork near Halls Crossroads	3.23	360559	835427	1967
03555900	Coker Creek near Ironsburg	22.4	351305	842028	1983
03566599	North Chickamauga Creek at Greens Mill, near Hixson	99.5	351030	851340	1925, 1944, 1953-56, 1980
03569168	Stringers Branch at Leawood Drive, at Red Bank	1.54	350700	851728	1980
03571500	Little Sequatchie River at Sequatchie	116	350747	853510	1925, 1929-30, 1932-34#, 1944, 1951-54, 1965, 1979
03571730	Standifer Branch at Jasper	15.3	350422	853656	1982
03571800	Battle Creek near Monteagle	50.4	350803	854615	1955
03583200	Chicken Creek at McBurg	7.66	351103	864847	1955
03583300	Richland Creek near Cornersville	47.5	351910	865220	1962-68#, 1969
035944242	Owl Creek at Lexington	2.50	353826	882213	1984
03597300	Wartrace Creek above Bell Buckle	4.99	353745	862122	1966
03599200	East Rock Creek at Farmington	43.1	353005	864250	1954
03602170	West Piney River at Hwy 70 nr Dickson	2.16	360521	872812	1984
03604070	Coon Creek tributary near Hohenwald	.51	353407	874002	1967
03604080	Hugh Hollow Branch near Hohenwald	1.52	353459	874036	1967
03604090	Coon Creek above Chop Hollow, near Hohenwald	6.02	353519	874109	1967
03604580	Blue Creek near New Hope	13.2	360352	873858	1984
03604595	Little Blue Creek trib. near Gorman	.62	361944	874213	1984
03605880	Cane Creek at Stewart	4.12	361909	875021	1984
OBION RIVER BASIN					
07024225	Neil Ditch near Henry	4.07	361019	882333	1984
07024370	Little Reedy Creek near Huntingdon	0.91	355544	882950	1984
07029090	Lewis Creek near Dyersburg	25.5	360314	892142	1955-78, 1980-83, 1985

APPENDIX 2

Active ground-water network in Tennessee as of 2/29/88

Station No.	Local well No.	Lat	Long	Date began
RECORDER--60-MINUTE PUNCH INTERVAL				
361738082132900	Ct: H-1	361738	821329	1964
360835086441100	Dv: L-10	360835	864411	1985
350234085181200	Hm: G-36	350234	851812	1981
351428085003600	Hm: O-15	351428	850036	1975
360020087573300	Hs: H-1	360020	875733	1962
353839089493500	Ld: F-4	353839	894935	1966
354158089384300	Ld: G-12	354158	893843	1980
354357089271701	Ld: J-5	354357	892717	1982
354552089455900	Ld: L-2	354552	894559	1980
355251089350500	Ld: S-2	355251	893505	1980
352610087182401	Ln: R-014	352610	871824	1985
354223088380200	Md: N-1	354223	883802	1949
360543084343101	Mg: F-5	360543	843431	1984
360521085432601	Pm: C-1	360521	854326	1968
353922083345600	Sv: E-2	353922	833456	1979
350514089553700	Sh: K-75	350514	895537	1948
351435090005200	Sh: O-1	351435	900052	1940
350735089593300	Sh: P-76	350735	895933	1928
350900089482300	Sh: Q-1	350900	894823	1940
350958090173800	Ar: C-1	350958	901738	1983
350344090130000	Ar: H-2	350344	901300	1983
351349090062800	Ar: O-1	351349	900628	1983
TAPE DOWN				
350503084505000	Br: E-1	350503	845050	1950-1955, 1964
354823086104400	Cn: D-1	354823	861044	1967
360200089280100	Dy: H-1	360200	892801	1955
360147089230700	Dy: H-7	360147	892307	1954
352226089330101	Fa: R-1	352226	893301	1949
352226089330102	Fa: R-2	352226	893301	1949
352112089571200	Sh: U-1	352112	895712	1946
352112089571300	Sh: U-2	352112	895713	1953
355505086541100	Wm: M-1	355505	865411	1950

APPENDIX 3

List of water-quality and suspended-sediment stations

[Q, chemical; B, bacteriological; S, sediment]

Station No.	Name	Drainage area (mi ²)	Lat	Long	Date began	Data type
CUMBERLAND RIVER BASIN						
03418420	Cumberland River below Cordell Hull Dam	8,095	361712	855627	1980	Q
03425000	Cumberland River at Carthage	10,690	361453	855719	1975	Q,B,S
03426310	Cumberland River at Old Hickory Dam (Tailwater)	11,673			1979	Q
03427500	East Fork Stones River nr Lascassas	262	355506	862002	1975	Q
03428200	W Fork Stones River at Murfreesboro	177	355410	862548	1986	Q
03428500	West Fork Stones River near Smyrna	237	355625	862754	1965	Q
TENNESSEE RIVER BASIN						
03495500	Holston River near Knoxville	3,747	360056	834954	1965, 1977	Q,B,S
03497300	Little River above Townsend	106	353952	834241	1964-82, 1986	Q,B,S
03535912	Clinch River at Melton Hill Dam	3,343	355307	841803	1973	Q,B,S
03593005	Tennessee River at Pickwick Landing Dam	32,820	350354	881508	1975	Q,B,S
03600085	Carters Creek at Petty Lane near Carters Creek	16.6	354340	865920	1986	Q,B,S
03600086	Carters Creek Trib near Carters Creek	2.94	354334	865920	1986	Q,B,S
03600088	Carters Creek at Butler Road at Carters Creek	20.1	354303	865945	1986	Q,B,S
03604000	Buffalo River near Flat Woods	447	352945	874958	1964	Q,B,S
OBION RIVER BASIN						
07026000	Obion River at Obion	1,852	361504	891133	1975	Q,B,S
07026370	North Reelfoot Creek at State Hwy 22 nr Clayton	56.3	362750	891513	1980-83, 1984	S
07026507	Reelfoot Creek near Walnut Log Rd	113	362728	892999	1986	Q
07026695	Bayou DuChien near Walnut Log Rd	27.8	362809	892350	1986	Q
07027002	Reelfoot Lake Spillway near Tiptonville	240	362109	892539	1986	Q
HATCHIE RIVER BASIN						
07029500	Hatchie River at Bolivar	1,480	361631	885836	1964, 1968, 1977	Q,B,S

INDEX

	Page
Administrative Services Section	52
Appalachian Valleys-Piedmont Regional Aquifer System Analysis	44
Blasted-in subsurface sewage system field lines	34
Botanical techniques	41
Burial grounds at the Oak Ridge Reservation	12
Cane Creek in West Tennessee	17
Channel evolution in West Tennessee	15
Computer Section	49
Contamination potential of the Memphis Sand aquifer	22
Cooperative education students	48
DCP network	9
Drinking water in the Eastside Utility District	30
Flood-frequency	40
Flood investigations	7
Geographic Information System in the Memphis-Shelby County area	45
Ground-water contamination near Brentwood, Middle Tennessee	26
Ground-water contamination potential at Jackson, Tennessee	37
Ground-Water Information Unit	48
Ground-water-level network	3
Ground-water network (as of 2/29/88)	60
Hixson Utility District of Hamilton County	29
Hollywood Dump	18
Humphreys County	20
Hydrograph controlled release streamflow gages	8
Hydrologic Data Section	1
Hydrologic Investigations Section	10
Impact from urban runoff on ground-water quality	32
Impact of agricultural chemicals on ground-water quality	36
Index of Geographic Information Systems (GIS) in Tennessee	38
McNairy-Nacatoch aquifer in West Tennessee	13
Memphis Sand and Fort Pillow Sand aquifers	46
Memphis Sand aquifer, Shelby County landfill	19
Millington flood	43
Organochlorine pesticides in ground water	40
Other activities	48
Poplar Creek at Oak Ridge	24
Reaeration characteristics of selected stream reaches in Tennessee	33
Recent Publications	51
Recharge and water-supply potential of aquifers in Tennessee	21
Reelfoot Lake	25
Regional Publication Center	50
Sediment deposition in wetlands in relation to bridge structures	39
Sediment yields in the Tennessee River Basin	16
Side-looking airborne radar	28
Sidonia project	42
Spring Hill area, Maury and Williamson Counties	27
Stability of channel reaches in West Tennessee	11
Storm runoff into Reelfoot Lake, West Tennessee	35
Surface-water monitoring network	2
Surface-water stations (as of 2/29/88)	53
Suspended-sediment network	5
Water-quality network	4
Water-quality and suspended-sediment stations	61
Water-use program	6
Wayne County landfill	47
Webb Creek area, Sevier County	31
Y-12 Plant at the Oak Ridge Reservation	14



Knoxville Subdistrict personnel.



Memphis Subdistrict personnel.



Nashville Subdistrict personnel.



The USGS Tennessee District personnel.

Quinones, Balthrop, and Baker

WATER RESOURCES INVESTIGATIONS IN TENNESSEE: PROGRAMS AND ACTIVITIES
OF THE U.S. GEOLOGICAL SURVEY, 1987-1988

USGS /OFR 88-

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
A-413 Federal Building
Nashville, Tennessee 37203

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF THE INTERIOR
INT 413

