

Water Resources Data Tennessee Water Year 2000

Water-Data Report TN-00-1

REFERENCE

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Prepared in cooperation with the
State of Tennessee
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CALENDAR FOR WATER YEAR 2000

1999

OCTOBER

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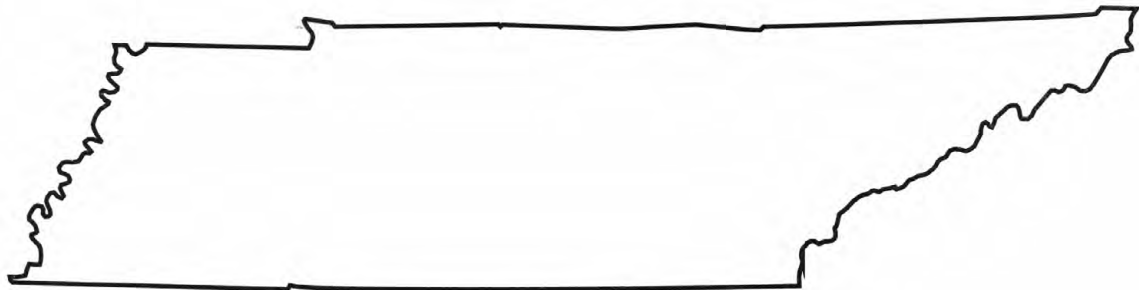
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U.S. Geological Survey

Water Resources Data Tennessee Water Year 2000

By D.F. Flohr, J.T. Hamilton, T.D. Phillips, and L.B. Thomas

Water-Data Report TN-00-1



Prepared in cooperation with the
State of Tennessee and with other agencies



U.S. DEPARTMENT OF THE INTERIOR
GALE A NORTON, SECRETARY
U.S. GEOLOGICAL SURVEY
CHARLES G. GROAT, Director

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U.S. Geological Survey

640 Grassmere Park, Suite 100

Nashville, Tennessee 37211

2001

PREFACE

This volume of the annual hydrologic data report of Tennessee is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, most of the data were collected, computed, and processed from the subdistrict offices. The following individuals supervised the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Tennessee and with other agencies under the general supervision of Jerry F. Lowery, Data Management Section Chief, and W. Scott Gain, District Chief, Tennessee.

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13. ABSTRACT (Maximum 200 words) Water resources data for the 2000 water year for Tennessee consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains records for water discharge at 68 gaging stations; stage only for 1 gaging station, elevation and contents for 32 lakes reservoirs; water quality at 17 gaging stations and 6 wells; and water levels for 8 observation wells; and 1 precipitation station. Also included are data for 102 crest stage partial-record stations. Additional water data were collected at various stream sites not involved in the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the US Geological Survey and cooperating State and Federal agencies in Tennessee.				
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORD ARE PUBLISHED IN THIS VOLUME

[Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological,
(t) water temperature, (s) sediment, (e) elevation, gage heights, or contents]

	Station number	Page
OHIO RIVER BASIN		
Ohio River:		
CUMBERLAND RIVER BASIN		
Cumberland River:		
New River (head of South Fork Cumberland River):		
New River at New River (d)	03408500	40
Clear Fork near Robbins (d)	03409500	42
Cumberland River at Celina (c,t)	03417500	44
Cumberland River below Cordell Hull Dam (c,t)	03418420	50
Caney Fork:		
Collins River near McMinnville (d)	03421000	56
Smith Fork at Temperance Hall (d)	03424730	58
Cumberland River at Old Hickory Dam (Tailwater), TN (d,c,t)	03426310	60
Stones River:		
Mansker Creek above Goodletsville (d)	03426385	70
Dry Creek near Edenwold (d)	03426470	72
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Tennessee River--Continued		
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OBION RIVER BASIN		
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<u>LINCOLN COUNTY</u>		
Well 350034086422800 Local number Li:G-1		326
<u>SEVIER COUNTY</u>		
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<u>SHELBY COUNTY</u>		
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QUALITY OF GROUND WATER, 2000WATER YEAR

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Well 350507089482401 Local number Sh:L-90		345
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WATER RESOURCES DATA - TENNESSEE, 2000

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Tennessee have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);
Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Red Boiling Spring at Red Boiling Springs (d)	03312250	USGS		1986
Salt Lick Creek at Red Boiling Springs (d)	03312255	USGS	12.6	1991-97
Crabapple Branch near La Follette (d)	03403718	USGS	1.07	1981-84
Indian Fork above Braytown (d)	03407804	USGS	4.32	1975-78
Green Branch near Hembree (d)	03407874	USGS	1.38	1976-78
Smoky Creek above Hembree (361240084245800) (d)	034078745	USGS	8.07	1982-83
Bills Branch near Hembree (d)	03407875	USGS	.67	1975-83
Shack Creek at Hembree (361341084253900) (d)	034078755	USGS	5.08	1982-84
Smoky Creek near Hembree (d)	03407876	USGS	17.2	1977-84
Bowling Branch above Smoky Junction (d)	03407877	USGS	2.19	1976-81
Anderson Branch near Montgomery (d)	03407881	USGS	.69	1976-80
Lowe Branch near Montgomery (d)	03407882	USGS	.92	1975-80
New River at Cordell (d)	03407908	USGS	198	10/75-77, 5/77-12/87
New River near New River (d)	03408000	USGS	314	1923-35
Long Branch near Grimsley (d)	03408600	USGS	1.11	1976-81
Crooked Creek tributary near Allardt (d)	03408810	USGS	.25	1976-79
Crooked Creek near Allardt (d)	03408815	USGS	3.62	1976-81
White Oak Creek at Sunbright (d)	03409000*	USGS	13.5	1932-33
White Oak Creek at Rugby (d)	03409400	USGS	98.0	1980-82
East Branch Bear Creek near Oneida (d)	03409700	USGS		1994-95
East Branch Bear Creek Tributary near Oneida (d)	03409710	FUSGS		1994-95
Pine Creek tributary at Oneida (d)	03410000	USGS	1.21	1932-33
South Fork Cumberland River at Leatherwood Ford (d)	03410210	USGS	806	1983-87
West Fork Obey River near Alpine (d)	03415000	USGS	115	1943-71, 1980-81
Obey River near Byrdstown (d)	03415500	USGS	445	1919-43
Obey River below Dale Hollow Dam (d)	03417000	USGS	936	1939-42, 1945-58
Roaring River near Hilham (d)	03418000	USGS	78.7	1932-75
Roaring River near Gainesboro (d)	03418188	USGS	276	1975
Cumberland River below Cordell Hull (d)	03418420	USGS	8,095	1980-97
Caney Fork at Clifty (d)	03418500	USGS	111	1931-49
Bee Creek at Herbert (d)	03419000	USGS	101	1931-37
Calfkiller River at Sparta (d)	03419500	USGS	157	1932-41
Calfkiller River below Sparta (d)	03420000	USGS	175	1940-71
Collins River at Beersheba Springs (d)	03420185	USGS	157	1994-95
Collins River near Tarlton (d)	03420200	USGS	174	1994-95
Barren Fork near Trousdale (d)	03420500	USGS	126	1932-57
Collins River near Rowland (d)	03421500	USGS	755	1916-24
Falling Water River near Cookeville (d)	03423000	USGS	67.0	1932-56
Falling Water River below Burgess Falls Dam (d)	03423152	USGS	124	1990-93
Taylor Creek near Cassville (d)	03423400	USGS	34.2	1989-93
Caney Fork below Center Hill Dam, near Lancaster (d)	03424500	USGS	2,183	1923-58
Spring Creek near Lebanon (d)	03425500	USGS	35.3	1955-61
Town Creek at Maple Street at Gallatin (d)	03425646	USGS	4.74	1984
Drakes Creek above Hendersonville (d)	03426000	USGS	19.2	1955-61
Cumberland River at Dam 3, near Old Hickory (d)	03426210	USGS	11,688	1931-42, 1947-53

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);
Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
East Fork Stones River at Woodbury (d)	03426800*	USGS	39.1	1932-33, 1950, 1954, 1962-89
Bradley Creek at Lascassas (d)	03427000	USGS	37.0	1955-61
Bushman Creek at Pitts Lane Ford near Compton (d)	03427690	USGS	9.67	1989-92
West Fork Stones River near Murfreesboro (d)	03428000	USGS	128	1932-69
Lytle Creek at Sanbyrn Drive at Murfreesboro (d)	03428043	USGS	17.6	1990-92
Fox Camp Spring at Mankinville (d)	03428047	USGS		1978-80
West Fork Stones River at Manson Pike, at Murfreesboro (d)	03428070	USGS	165	1973-81
Stones River near Smyrna (d)	03429000	USGS	571	1925-67
Stewart Creek near Smyrna (Smyrna Airport) (d)	03429500	USGS	69.7	1953-58
Stones River below J. Percy Priest Dam (d)	03430100	USGS	892	1939-67
Collins Creek at Bell Road, near Antioch (d)	03430800	USGS	3.61	1976-77
Mill Creek near Antioch (d)	03431000	USGS	64.0	1954-61, 1964-75
Browns Creek at State Fairgrounds, at Nashville (d)	03431300	USGS	11.8	1964-75
Cumberland River at Nashville (d)	03431500	USGS	12,856	1893-54
Cummings Branch at Lickton (d)	03431517	USGS	2.40	1976-90
Whites Creek at Tucker Road, near Bordeaux (d)	03431600	USGS	51.6	1965-75
Richland Creek at Charlotte Ave, at Nashville (d)	03431700	USGS	24.3	1964-90
West Harpeth River near Leipers Fork (d)	03432500	USGS	66.9	1955-61
Red River near Portland (d)	03435030	USGS	15.1	1967-75
Red River near Adams (d)	03435500	USGS	706	1920-69
Sulphur Fork Red River near Adams (d)	03436000	USGS	186	1938-91
Piney River at Ft. Campbell, KY-TN (d)	03436420	USGS	50.2	1993-96
Little West Fork near Ft. Campbell, KY-TN (d)	03436426	USGS	128	1993-96
Cumberland River at Clarksville (lock C) (d)	03436500	USGS	15,897	1925-44
Yellow Creek near Shiloh (d)	03436700*	USGS	124	1958-80
Cumberland River at Dover (gaging station) (d)	03437000	USGS	16,437	1938-65
French Broad River near Newport (d)	03455000	TVA	1,858	1900, 1901, 1902-05, 1907, 1920-94
Pigeon River at Hartford (d)	03461000	USGS	547	1925-48
Cosby Creek above Cosby (d)	03461200	USGS	10.1	1967-87
Pigeon River at Newport (d)	03461500	USGS	666	1900-29, 1945-46, 1948-82, 1982-83
North Indian Creek near Unicoi (d)	03465000	USGS	15.9	1944-57
Muddy Fork near Leesburg (d)	03465830	USGS	13.5	1994-95
Jockey Creek near Mount Bethel Church near Limestone (d)	03466098	USGS	18.5	1994-95
Nolichucky River below Nolichucky Dam (d) (e)	03466500	USGS	1,184	1902-09, 1919-26, 1946-73
Lick Creek near Holland Mill (d)	03466825	USGS	53.0	1994-95
Lick Creek at Mohawk (d)	03467000	USGS	220	1946-71
Nolichucky River near Morristown (d)	03467500	USGS	1,679	1921-57
Long Creek near White Pine (d)	03468050	TVA	30.8	1964-81
French Broad River below Douglas Dam (d)	03469000	USGS	4,543	1919-74
Millican Creek near Douglas Dam (d)	03469010	TVA	4.22	1942-62
Roaring Fork Creek at Hwy 441, at Gatlinburg (d)	03469282	TVA	7.23	1977-82
Dudley Creek at Gatlinburg (d)	03469390	TVA	8.84	1977-82

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);

Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
West Prong Little Pigeon River near Pigeon Forge (d)	03469500	USGS	76.2	1946-49
		TVA		1967-69
Little Pigeon River at Sevierville (d)	03470000	USGS	353	1921-82
South Fork Holston River below South Holston Dam (d)	03476500	USGS	703	1951-74
South Fork Holston River at Bluff City (d)	03477000	USGS	813	1900-53
Beaver Creek at Bristol (d)	03478500	USGS	44.8	1932-34
Beaver Creek at Buffalo School, near Bluff City (d)	03478620	TVA	108	1934-38
Watauga River at North Carolina-Tennessee State Line (d)	03479500	USGS	152	1943-55
Watauga River at Stump Knob (d)	03480000	USGS	171	1928-31, 1934-45
Roan Creek near Neva (d)	03482000	USGS	102	1942-55
Roan Creek at Butler (d)	03482500	USGS	166	1901-02, 1934-48
Watauga River at Butler (d)	03483000	USGS	427	1900-02, 1921-48
Watauga River below Wilbur Dam (d)	03484000	USGS	471	1903-09, 1948-82
Watauga River at Siam (d)	03484110	TVA	480	1946
Doe River at Old Hopson School (d)	03484490	TVA	59.3	1967-69
Doe River at Blevins (d)	03484500	USGS	60.8	1912-15
Laurel Fork above Braemar (d)	03484900	TVA	23.0	1945-51
Laurel Fork above Hampton (d)	03484910	TVA	25.3	1948-52
Doe River at Elizabethton (d)	03485500	USGS	137	1912-16, 1921-82
Watauga River at Elizabethton (d)	03486000	USGS	692	1926-49, 1953-82
Buffalo Creek at Milligan College (d)	03486200	TVA	28.1	1965-81
Brush Creek at Johnson City (Tennessee Street) (d)	03486490	TVA	6.78	1969-73
Brush Creek at Johnson City (Elm Street) (d)	03486495	TVA	9.58	1969-72
Brush Creek at Johnson City (d)	03486500	USGS	10.3	1932-34
Fall Creek near Fort Patrick Henry Dam (d)	03486900	TVA	13.1	1953-56
South Fork Holston River at Kingsport (d)	03487500	USGS	1,935	1926-77
South Fork Holston River at Kingsport (auxiliary channel) (d)	03487501	USGS	1.0	1953-77
Reedy Creek at Orebank (d)	03487550*	USGS	36.3	1963-89
South Fork Holston River near Ridgefields Bridge, at Kingsport (d)	03487640	TVA	2,047	1968-69
Holston River at Surgoinsville (d)	03490500	USGS	2,874	1941-88
Beech Creek at Kepler (d)	03491300	USGS	47.0	1965-87
Holston River near Rogersville (d)	03491500	USGS	3,035	1901-42
Poor Valley Creek near Mooresburg (near Spruce Pine School) (d)	03491800	USGS	32.3	1958-61
Poor Valley Creek near Mooresburg (d)	03491820	TVA	43.3	1959-60
Holston River near Morristown (d)	03492000	USGS	3,244	1937-42
Mossy Spring near Jefferson City (d)	03492500	USGS		1950-59
Mossy Creek at Jefferson City (d)	03493000	USGS	30.8	1932-34
Holston River near Jefferson City (d)	03494000	USGS	3,429	1937-74
Mill Spring near Jefferson City (d)	03494500	TVA		1941-48
		USGS		1951-59
Holston River near Knoxville (d)	03495500	USGS	3,747	1930-76, 1978-93
First Creek at Mineral Springs Avenue, at Knoxville (d)	03496000	USGS	15.7	1945-63
First Creek above Powers Avenue, at Knoxville (d)	03496200	USGS	17.2	1964-70
First Creek at Fifth Avenue, at Knoxville (d)	03496500	USGS	21.1	1932-34, 1945-59
Tennessee River at Knoxville (Gay Street Bridge) (d)	03497000	USGS	8,934	1900-82
Fourth Creek at Knoxville (d)	03497110	TVA	9.65	1942-43

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);

Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Little River at Walland (d)	03497500	USGS	175	1925-31
Little River near Walland (d)	03498000	USGS	192	1931-52
Pistol Creek at Maryville (d)	03499000	USGS	13.5	1932-33
Little River below Rockford Dam, at Rockford (d)	03499100	TVA	346	1940-44
Little River near Rockford (d)	03499110	TVA	352	1936-37
Ten Mile Creek near Ebenezer (d)	03499200	TVA	13.2	1941-45
Muddy Creek near Fort Loudon Dam (d)	03499600	TVA	10.7	1941-59
Little Tennessee River at Calderwood (d)	03518000	USGS	1,862	1912-19, 1921-57
Little Tennessee River below Chilhowee Dam (d)	03518300	USGS	1,987	1958-79
North Fork Citico Creek near Tellico Plains (d)	03518400	TVA	7.04	1960-71
Tellico River at Tellico Plains (d)	03518500	USGS	118	1925-82
Little Tennessee River at McGhee (d)	03519500	USGS	2,443	1905-69
Baker Creek near Greenback (d)	03519640*	USGS	16.0	1966-75
Tennessee River at Loudon (d)	03520000	USGS	12,220	1923-55
Sweetwater Creek below Sweetwater (d)	03520045	TVA	26.4	1970-81
Sweetwater Creek near Sweetwater (d)	03520050	TVA	28.2	1964-70
Big Sycamore Creek near Sneedville (d)	03528100	TVA	5.49	1935-45
Big Barren Creek near New Tazewell (d)	03528300	TVA	22.5	1935-45
White Creek near Sharps Chapel (d)	03528400	TVA	2.68	1935-72
Powell River near Arthur (d)	03532000	USGS	685	1920-82
Davis Creek near Speedwell (d)	03532100	TVA	31.2	1936-37
Big Creek near La Follette (d)	03532220	TVA	26.2	1936-38
Clinch River below Norris Dam (d)	03533000	USGS	2,913	1904-74
Clear Creek near Norris (d)	03533100	TVA	2.83	1934-38
Coal Creek at Lake City (d)	03534000*	USGS	24.5	1932-34
Buffalo Creek at Norris (d)	03534500	USGS	9.92	1947-51
Bullrun Creek near Halls Crossroads (d)	03535000	USGS	68.5	1957-86
Scarboro Creek Tributary near Haw Ridge near Oak Ridge (d)	03535102	USGS	0.41	1989-91
Scarboro Creek Tributary near Oak Ridge (d)	03535103	USGS	0.41	1989-91
Whiteoak Creek near Melton Hill (d)	03536320	USGS	1.31	1987-95
Whiteoak Creek near Wheat (d)	03536380	USGS	2.10	1986-95
Northwest Tributary near Oak Ridge (d)	03536440	USGS	0.67	1987-95
First Creek near Oak Ridge (d)	03536450	USGS	0.33	1987-96
Whiteoak Creek at ORNL, near Oak Ridge (d)	03536500	USGS	2.08	1950-55
Whiteoak Creek below Melton Valley Drive near Oak Ridge (d)	03536550	USGS	3.28	1987-96
Whiteoak Creek below ORNL, near Oak Ridge (d)	03537000	USGS	3.62	1950-53, 1955-64
Melton Branch tributary (East Seven) near Oak Ridge (d)	03537050	USGS	.24	1987-91 1992-93
Melton Branch near Melton Hill, near Oak Ridge (d)	03537100	USGS	0.52	1985-95
Melton Branch tributary (Center Seven) near Oak Ridge (d)	03537200	USGS	.07	1987-91 1992-93
Melton Branch tributary (West Seven) near Oak Ridge (d)	03537300	USGS	.15	1987-89 1992-93
Melton Branch near Oak Ridge (d)	03537500	USGS	1.48	1955-64
Whiteoak Creek at Whiteoak Dam, near Oak Ridge (d)	03538000	USGS	6.01	1953-55, 1960-64
Clinch River near Oak Ridge (d)	03538150	USGS	3,385	1937-64, 1968
Poplar Creek near Oak Ridge (d)	03538225	USGS	82.5	1960-89
East Fork Poplar Creek at Y-12 at Oak Ridge (d)	03538231	USGS	0.81	1992-96
East Fork Poplar Creek near Oak Ridge (d)	03538250	USGS	19.5	1960-88
Bear Creek at Bear Creek Road near Oak Ridge (d)	03538256	USGS	0.42	1993-96

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

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Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Bear Creek at County Line near Oak Ridge (d)	03538260	USGS	1.57	1993-96
Bear Creek tributary above Bear Creek Road near Wheat (d)	035382672	USGS	.30	1986-91
Bear Creek near Wheat (d)	035382673	USGS	3.20	1986-91
Bear Creek tributary near Wheat (d)	035382677	USGS	.14	1986-89 1992-93
Bear Creek tributary at Hwy 95 near Wheat (d)	03538272	USGS	.14	1986-89
Bear Creek at Pine Ridge near Wheat (d)	03538273	USGS	5.0	1986-91
Bear Creek near Oak Ridge (d)	03538275	USGS	7.15	1960-64
Emory River near Wartburg (d)	03538500	USGS	83.2	1934-57, 1966-68
Obed River at Crossville (d)	03538600	USGS	12.0	1950-51, 1955-85, 1991-95
Daddys Creek near Grassy Cove (d)	03539000	USGS	51.2	1925-30
Daddys Creek near Crab Orchard (d)	03539500	USGS	93.5	1931-58
Daddys Creek near Hebbertsburg (d)	03539600	USGS	139	1957-68
Clear Creek near Lancing (d)	03539750	USGS	153	1966-68
Obed River near Lancing (d)	03539800	USGS	518	1956-68, 1973-88
Crooked Fork near Wartburg (d)	03539860	USGS	50.3	1966-68
Emory River at Deermont (d)	03540000	USGS	704	1920-28
Crab Orchard Creek near Deermont (d)	03540100	USGS	33.7	1966-68
Bitter Creek near Oakdale (d)	03541300	USGS	12.6	1967-75
Kingston Creek at Kingston (d)	03541400	TVA	.74	1940-41
Whites Creek near Glen Alice (d)	03541500	USGS	108	1934-55
Whites Creek at Glen Alice (d)	03542000	USGS	120	1931-34
Piney River at Spring City (d)	03542500	USGS	95.9	1927-31
Sewee Creek near Decatur (d)	03543500	USGS	117	1934-94
Tennessee River at Breedenton (d)	03544000	USGS	17,440	1934-40
Richland Creek near Dayton (d)	03544500	USGS	50.2	1927-31, 1934-55, 1979-82
Turtletown Creek at Turtletown (d)	03556000	USGS	26.9	1934-71
Hiwassee River near McFarland (d)	03556500	USGS	1,136	1943-81
Hiwassee River near Reliance (d)	03557000	USGS	1,233	1900-14, 1918-48
Ocoee River at Copperhill (d)	03559500	USGS	352	1903-14, 1943-70
North Potato Creek tributary, Copper Basin area 6, near Ducktown (d)	03560700	TVA	.01	1940-51
Burra-burra Creek tributary, Copper Basin area 5, near Ducktown (d)	03560800	TVA	.02	1940-51
North Potato Creek near Ducktown (d)	03561000	USGS	13.0	1934-70
North Potato Creek tributary No. 2, Copper Basin area 1-W, near Ducktown (d)	03561200	TVA	.01	1942-52
North Potato Creek tributary No. 3, Copper Basin area 1-E, near Ducktown (d)	03561300	TVA	.01	1942-52
Ocoee River at McHarg (d)	03561500	USGS	447	1917-43
Walkertown Branch tributary, Copper Basin area 4, near Ducktown (d)	03561700	TVA	.01	1940-45
Ocoee River tributary, Copper Basin area 3, near Ducktown (d)	03561800	TVA	.01	1940-51
Brush Creek near Ducktown (d)	03562000	USGS	14.4	1934-42
Hiwassee River above Charleston (d)	03565000	USGS	2,001	1954-76
Chestuee Creek above Englewood (d)	03565040	TVA	14.8	1944-57

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

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Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Little Chestuee Creek below Wilson Station (d)	03565080	TVA	8.54	1947-57
Chestuee Creek at Zion Hill (d)	03565120	TVA	37.8	1944-62
Middle Creek below Hwy 39 near Englewood (d)	03565160	TVA	32.7	1944-62
Chestuee Creek near Athens (d)	03565200	TVA	77.9	1944-54
Chestuee Creek at Dentville (d)	03565250	USGS	114	1944-62
South Chestuee Creek near Benton (d)	03565300	USGS	31.8	1957-86
Oostanaula Creek near Sanford (d)	03565500	USGS	57.0	1954-89
Oostanaula Creek near Calhoun (d)	03565700	TVA	67.0	1940-44
Wolftever Creek near Ooltewah (d)	03566420*	USGS	18.8	1964-89
Long Savannah Creek near Snow Hill (d)	03566450	TVA	28.3	1939-44
North Chickamauga Creek at Upper Mill, near Hixson (d)	03566600	TVA	99.5	1937-43
North Chickamauga Creek near Hixson (d)	03566630	TVA	114	1937-43
South Chickamauga Creek near Chickamauga (d)	03567500	TVA	428	1928-78 1980-94
South Chickamauga Creek near McCarty (d)	03567600	TVA	458	1937-45
Sequatchie River near College Station (d)	03570650	USGS	154	1966-68
Sequatchie River near Whitwell (d)	03571000	TVA	402	1920-94
Little Sequatchie River at Sequatchie (d)	03571500*	USGS	116	1932-34
Tennessee River at South Pittsburg (d)	03571850	USGS	22,640	1930-87
Elk River near Pelham (d)	03578000	USGS	65.6	1952-88
Bradley Creek Tributary at AEDC near Manchedster	03578455	USGS		1993-96
Bradley Creek near Prairie Plains (d)	03578500	USGS	41.3	1952-60
Brumalow Creek at AEDC near Manchester (d)	03578600	USGS		1993-96
Rowland Creek at AEDC near Manchester (d)	03578970	USGS		1994-96
Elk River near Estill Springs (d)	03579100	USGS	275	1921-81
Rock Creek at Tullahoma (d)	03579620	USGS	12.3	1991-96
Boiling Fork Creek south of Cowan (d)	03580000	USGS	20.2	1932
Boiling Fork Creek above Winchester (d)	03580300	USGS	55.9	1962-70
Boiling Fork Creek at Winchester (d)	03580500	USGS	77.1	1932-34
Elk River below Tims Ford Dam (d)	03580750	USGS	534	1966-76
Jack Daniel Spring at Lynchburg (d)	03580990	USGS		1970-78
East Fork Mulberry Creek below Jack Daniel Distillery at Lynchburg (d)	03580995	USGS	23.4	1987-94
East Fork Mulberry Creek at Lynchburg (d)	03581000	USGS	23.1	1932
East Fork Mulberry Creek near Lynchburg (d)	03581100	TVA	29.5	1967-69
East Fork Mulberry Creek near Mulberry (d)	03581200	TVA	49.4	1967-69
West Fork Mulberry Creek near Booneville at Mt. Herman (d)	03581400	TVA	17.4	1967-69
West Fork Mulberry Creek at Mulberry (d)	03581500	USGS	41.2	1954-62, 1966-68
Elk River above Fayetteville (d)	03582000	USGS	827	1934-82
Union Branch below Belleville (d)	03582140	USGS	2.37	1977
Elk River near Fayetteville (d)	03582500	USGS	897	1926-34
Bradshaw Creek at Frankewing (d)	03583000	USGS	36.5	1955-61, 1966-68
Richland Creek near Cornersville (d)	03583300*	USGS	47.5	1961-68
Factory Creek (head of Big Creek) near Campbellsville (d)	03583330	USGS	38.2	1966-68
Yokley Creek near Campbellsville (d)	03583360	USGS	20.2	1966-68
Weakley Creek near Bodenham (d)	03583500	USGS	24.4	1955-61, 1966-68
Richland Creek near Pulaski (d)	03584000	USGS	366	1934-75
Elk River at Prospect (d)	03584600	USGS	1805	1904-08, 1919-94

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

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Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Shoal Creek at Lawrenceburg (d)	03588000	USGS	55.4	1932-34 1967-91
Chisholm Creek at Westpoint (d)	03588400	USGS	43.0	1962-88
Shoal Creek at Iron City (d)	03588500	USGS	348	1925-94
Snake Creek near Adamsville (d)	03593300	TVA	49.4	1940-59
Holland Creek near Lowryville (d)	03593700	TVA	14.9	1965-78
Horse Creek near Savannah (d)	03594000	USGS	114	1929-34
Turkey Creek near Savannah (d)	03594040	TVA	53.7	1940-59
White Oak Creek near Milledgeville (d)	03594058	TVA	46.1	1940-59
White Oak Creek at Milledgeville (d)	03594110	TVA	49.2	1961-65
Middleton Creek near Milledgeville (d)	03594120	TVA	45.5	1940-59
Indian Creek near Cerro Gordo (d)	03594160	TVA	201	1940-59
Banjo Branch near Waynesboro (d)	03594164	USGS	2.14	1988-89
Beech River near Lexington (d)	03594415	TVA	15.9	1953-63
Wolf Creek at Graper Springs (d)	03594420	TVA	11.7	1953-55
Pine Tree Branch near Lexington (d)	03594425	TVA	.14	1941-78
Harmon Creek near Lexington (d)	03594430	TVA	6.87	1953-73
Piney Creek at Hwy 104 near Lexington (d)	03594435	TVA	19.2	1953-55, 1957-73
Cane Creek near Shady Hill (d)	03594437	TVA	20.7	1966-73
Haley Creek near Chesterfield (d)	03594441	TVA	8.30	1953-55
Beech River near Chesterfield (old channel before channelization) (d)	03594445	TVA	11.5	1940-54, 1960-65
Browns Creek near Chesterfield (d)	03594450	TVA	202	1953-63
Cane Creek near Shady Hill (d)	03594455	TVA	16.8	1953-64
Cane Creek near Chesterfield (old channel before channelization) (d)	03594460	TVA	222	1940-54
Beech River near Darden (old channel before channelization) (d)	03594465	TVA	165	1954-60
Flat Creek near Middleburg (d)	03594470	TVA	13.8	1953-55
Big Creek near Darden (d)	03594475	TVA	10.6	1953-55, 1966-73
Turkey Creek near Decaturville (d)	03594480	TVA	8.40	1953-63
Turkey Creek at Middleburg Road, near Decaturville (d)	03594482	TVA	11.5	1964-73
Rushing Creek near Decaturville (d)	03594485	TVA	17.0	1953-55
Tennessee River at Perryville (d)	03594500	USGS	34,550	1931-32
Duck River near Manchester (d)	03595000	USGS	55.2	1932-34
Little Duck River at Manchester (d)	03595500	USGS	40.4	1932-34
Duck River below Manchester (d)	03596000	USGS	107	1934-88
Duck River at Normandy (d)	03596500	USGS	208	1920-31, 1972-75
Garrison Fork at Fairfield (d)	03597000	USGS	66.3	1953-58, 1966-68
Wartrace Creek at Bell Buckle (d)	03597500	USGS	16.3	1953-61, 1966-75
Wartrace Creek at Wartrace (d)	03597600	USGS	36.4	1966-68
Fall Creek near Deason (d)	03598173	USGS	16.4	1994-95
Fall Creek near Halls Mill (d)	03598179	USGS	39.0	1994-95
North Fork Creek near Poplins Crossroad (d)	03598250	USGS	71.9	1994-95
Big Rock Creek at Lewisburg (d)	03599000	USGS	24.9	1953-61, 1966-68
Fountain Creek near Culleoka (d)	03599430	USGS	26.9	1966-68
Fountain Creek near Fountain Heights (d)	03599450	USGS	74.0	1966-68
Rutherford Creek near Carters Creek (d)	03600000	USGS	68.8	1953-58
Rutherford Creek (No. 4) near Columbia (d)	03600100	TVA	112	1948-53

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);

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Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Rutherford Creek (No. 3) near Columbia (d)	03600200	TVA	116	1948-49
Little Bigby Creek at Experiment Lane at Columbia (d)	03600258	USGS	42.6	1990-92
Big Bigby Creek at Sandy Hook (d)	03600500	USGS	17.5	1953-87, 1988-89
Big Bigby Creek near Mount Pleasant (d)	03601000	USGS	25.8	1953-57
Big Bigby Creek at Cross Bridges (d)	03601500	USGS	112	1938-39
Duck River at Centerville (d)	03602000	USGS	2,048	1919-55
Piney River at Vernon (d)	03602500	USGS	193	1925-93
Duck River above Hurricane Mills (d)	03603000	USGS	2,557	1925-94
Hurricane Creek at Hurricane Mills (d)	03603500	USGS	75.1	1932-33
Coon Creek near Hohenwald (d)	03604100	USGS	10.0	1967-74
Buffalo River below Lobelville (d)	03604400	USGS	702	1927-89, 1989-94
Buffalo River near Lobelville (d)	03604500	USGS	707	1987-89
Blue Creek at State Hwy 13 near Waverly (d)	03604600	TVA	24.8	1964-71
Birdsong Creek near Holladay (d)	03604800	TVA	44.9	1940-68
Trace Creek at Waverly (d)	03605500	USGS	20.1	1932-33
Cotton Creek near Camden (d)	03606400	TVA	.43	1941-45
Big Sandy River at Big Sandy (d)	03607000	USGS	379	1935-44
Clifty Creek at Clifty Creek Road near Paris (d)	03607198	USGS	8.06	1994-95
Holly Fork Creek at Nobles (d)	03607225	USGS	26.8	1994-95
Beaverdam Creek at Sulphur Well Road near Nobles (d)	03607232	USGS	6.69	1994-95
Tennessee River near Buchanan (d)	03607500	USGS	39,730	1930-43
Crooked Creek at Highway 22 near Huntingdon (d)	07024200	USGS	89.8	1994-95
Beaver Creek at Huntingdon (d)	07024300*	USGS	55.5	1946, 1948, 1952-54, 1958-88
Beaver Creek at Hwy 22 Bypass near Huntingdon (d)	07024305	USGS	58.6	1994-96
South Fork Obion River near Greenfield (d)	07024500*	USGS	383	1929-89
Rutherford Fork Obion River near Bradford (d)	07025000	USGS	201	1929-57
North Fork Obion River near Union City (d)	07025500	USGS	480	1929-71 1989-93
Obion River at U.S. Highway 51 near Obion (d)	07026040	USGS	1,875	1929-1958, 1966-1995
North Reelfoot Creek at State Hwy 22 near Clayton (d)	07026370	USGS	56.3	1980-83, 1984-89
South Reelfoot Creek near Clayton (d)	07026400	USGS	36.6	1984-89
Reelfoot Creek near Samburg (d)	07026500	USGS	110	1951-73
Reelfoot Lake near Phillippy (e)	07026690	USGS	240	1984-88
Indian Creek near Samburg (d)	07026795	USGS	8.01	1982-86
South Fork Forked Deer River at Jackson (d)	07027500	USGS	495	1929-73 1988-91
South Fork Forked Deer River at Chestnut Bluff (d)	07028000	USGS	1,003	1929-57
North Fork Forked Deer River at Trenton (d)	07028500	USGS	73.5	1950-71
Middle Fork Forked Deer River near Alamo (d)	07029000	USGS	369	1929-73
Hatchie River near Stanton (d)	07030000	USGS	1,975	1929-58
Cane Creek at Three Point (d)	07030137	USGS	79.8	1985-87
Kelly Branch near Clopton (d)	07030245	USGS	7.79	1975-76
Beaver Creek near Arlington (d)	07030250	USGS	148	1994-95
Loosahatchie River tributary at New Allen Road at Memphis (d)	07030295	USGS	1.26	1977-83
Wolf River at Rossville (d)	07030500	USGS	503	1929-72
Marys Creek at Pisgah Road, near Fisherville (d)	07031500	USGS	13.6	1955-57
Fletcher Creek near Cordova (d)	07031680	USGS	1.45	1974-83
Fletcher Creek at Whitten Road at Memphis (d)	07031683	USGS	21.4	1978-82

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only);
Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
Unnamed tributary at Charles Bryan Road, near Cordova (d)	07031685	USGS	3.18	1975-77
Lick Creek at Dickinson Street, at Memphis (d)	07031777	USGS	2.96	1975-83
Nonconnah Creek near Germantown (d)	07032200	USGS	68.2	1969-1985 1985-1995
Johns Creek tributary at Holmes Road, near Memphis (d)	07032222	USGS	5.83	1975-85
Johns Creek at Raines Road, at Memphis (d)	07032224	USGS	19.4	1975-82, 1985
Black Bayou at Southern Avenue, at Memphis (d)	07032241	USGS	.59	1975-83
Cane Creek at East Person Avenue, at Memphis (d)	07032248	USGS	4.98	1975-85
Cypress Creek at Neely Road, at Memphis (d)	07032260	USGS	3.18	1975-85

DISCONTINUED SURFACE-WATER QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 1991 water year. Water-quality data (daily or periodic samples with collection frequency not less than quarterly) were collected and published for the period of record shown for each station. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Chief at the address given on the back of the title page of this report.

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi ²)	Type of record	Period of record (water years)
Crabapple Branch near La Follette	03403718	USGS	1.07	C,T	1981-84
Indian Fork above Braytown	03407804	USGS	4.32	C	1975-81
New River at Stainville	03407850	USGS	66.0	C,S	1975-77, 1979-81
Green Branch near Hembree	03407874	USGS	1.38	C,S	1975-81
Smoky Creek above Hembree (361240084245800)	034078745	USGS	8.07	S	1982-83
Bills Branch near Hembree	03407875	USGS	.67	C,S	1975-83
		USGS		C,S,T	1980-83
Shack Creek at Hembree (361341084253900)	034078755	USGS	5.08	C,S,T	1982-84
Smoky Creek at Hembree	03407876	USGS	17.2	S	1978-84
		USGS		C,T	1980-84
Bowling Branch above Smoky Junction	03407877	USGS	2.19	C,S	1975-83
Smoky Creek at Smoky Junction	03407879	USGS	32.8	C,S	1975-77, 1979-81
Anderson Branch near Montgomery	03407881	USGS	.69	C	1975-81
Lowe Branch near Montgomery	03407882	USGS	.92	C	1975-81
New River at Cordell	03407908	USGS	198	C,S	1976-77, 1979-82
New River at New River	03408500	USGS	382	C,T	1977-86
		USGS		C,S	1965-67, 1975-77, 1979-81
Clear Fork near Robbins	03409500	USGS	272	T	1982-86
		USGS		C	1982, 1984-86
		USGS		C,S	1964-65, 1976-77, 1979-82, 1984
South Fork Cumberland River at Leatherwood Ford	03410210	USGS	806	C,S,T	1986
		USGS		C,S	1979-80, 1984-85
Cumberland River at Celina	03417500	USGS	7,307	C,T	1991-97
Roaring River near Hilham	03418000	USGS	78.7	T	1969-71
Roaring River above Gainesboro	03418070	USGS	210	C,S	1980-83
Cumberland River below Cordell Hull Dam	03418420	USGS	8,095	CT	1980-97
Collins River near McMinnville	03421000	USGS	640	C,S	1964-67, 1979-82
Cumberland River at Carthage	03425000	USGS	10,690	C,T	1975-81
East Fork Stones River near Lascassas	03427500	USGS	262	C,T	1975-1990
West Fork Stones River near Murfreesboro	03428000	USGS	128	C	1964-68
West Fork Stones River at Manson Pike, at Murfreesboro	03428070	USGS	165	C,T	1973-82
West Fork Stones River near Smyrna	03428500	USGS	237	T	1974-1990
Richland Creek at Charlotte Avenue, at Nashville	03431700	USGS	24.3	C,S	1901, 1979-83
Harpeth River near Kingston Springs	03434500	USGS	681	C,S	1979-83
Cumberland River below Cheatham Dam	03435000	USGS	14,163	C,T	1993-97
Sulphur Fork Red River near Greenbrier	03435637	USGS	34.9	T	1976-78
Sulphur Fork Red River above Beaverdam Creek, near Springfield	03435700	USGS	49.1	T	1975-77
Sulphur Fork Red River above Springfield	03435770	USGS	65.6	C,S	1976-83
Sulphur Fork Red River near Adams	03436000	USGS	186	C,S	1964, 1979-83
Red River at Port Royal	03436100	USGS	935	C,S	1979-83
Boiling Springs at Ft. Campbell, KY-TN	03436421	USGS		C,T	1994-96
Yellow Creek near Shiloh	03436700	USGS	124	C,S	1964-65, 1979-81
French Broad River below Hot Springs, NC	03454757	USGS	1,712	C	1970-73

WATER RESOURCES DATA - TENNESSEE, 2000

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.

Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi ²)	Period of record
French Broad River near Newport	03455000	TVA	1,858	C 1946-47, 1960-61, 1969-70, 1974-75, 1979-80
Muddy Fork near Leesburg	03465830	USGS	13.5	C,S,T 1993-95
Nolichucky River at Embreeville	03465500	USGS	805	C,S 1979-82
Jockey Creek near Mount Bethel Church near Limestone	03466098	USGS	18.5	C,S,T 1993-95
Nolichucky River below Nolichucky Dam	03466500	TVA	1,184	C 1974-79
		TVA		T 1962
Lick Creek near Holland Mill	03466825	USGS	53.0	C,S,T 1993-95
French Broad River at Douglas Dam (tailwater)	03468510	TVA	4,541	C 1975-80
Little Pigeon River at Sevierville	03470000	TVA	353	C 1967-68, 1970
		TVA		T 1969-74
		USGS		C,S 1979-82
French Broad River near Knoxville	03470500	USGS	5,101	C,T 1975-82
		USGS		B,C,S,T 1975-86
South Fork Holston River at South Holston Dam	03476010	TVA	703	C 1975-80
Watauga River at Stump Knob	03480000	TVA	171	T 1962
Elk River at Elk Mills	03481450	TVA	74.0	C 1975-76
Roan Creek near Doevoile	03482100	TVA	110	T 1962, 1971-74
		TVA		C 1975-76
Watauga River below Watauga Dam	03483950	TVA	468	C 1973, 1975-80
Doe River at Hampton	03484800	TVA	100	T 1968-73
Doe River at Elizabethton	03485500	TVA	137	C 1967-68, 1971
		TVA		T 1954-63
		USGS		C,S 1979-82
South Fork Holston River at Boone Dam (tailwater)	03486810	TVA	1,840	C 1975-78
South Fork Holston River at Ft. Patrick Henry Dam	03487010	TVA	1,903	C 1975-80
Reedy Creek at Orebank	03487550	TVA	36.3	T 1964-66
		TVA		C 1964-67
		USGS		C,S 1979-82
Holston River near Church Hill	03490350	TVA	2,819	C 1974-78
Holston River at Surgoinsville	03490500	USGS	2,874	T 1975-82
		TVA		C 1974-80
Big Creek near Rogersville	03491000	USGS	47.3	T 1972-75, 1977-79
Beech Creek at Kepler	03491300	TVA	47.0	T 1966-68
Holston River near Rogersville	03491500	TVA	3,035	T 1966-75
Holston River at Cherokee Dam (tailwater)	03493510	TVA	3,428	C 1975-80
Holston River near Knoxville	03495500	USGS	3,747	C,B,S 1977-93
First Creek above Powers Avenue, at Knoxville	03496200	USGS	17.2	T 1969-71
Tennessee River below Knoxville	03497100	TVA	8,963	T 1970-80
Little River above Townsend	03497300	USGS	106	T 1964-82
		USGS		C 1982
Little River near Maryville	03498500	TVA	269	C 1967-68
		USGS		C,S 1979-82
Tennessee River at Fort Loudon Dam (tailwater)	03499510	TVA	9,550	C 1975-80
Little Tennessee River at Calderwood Dam	03518210	TVA	1,977	C 1977-80
Little Tennessee River below Chilhowee Dam	03518300	TVA	1,987	T 1964-78
Tellico River at Tellico Plains	03518500	TVA	118	T 1964-78
		TVA		C 1969-70, 1973-76
		USGS		C,S 1979-82
Little Tennessee River at McGhee	03519500	TVA	2,443	T 1963
Little Tennessee River near Centersville	03519740	TVA		T 1976-79
Clinch River above Tazewell	03528000	TVA	1,474	T 1962-66, 1971-75
		TVA		C 1971-80

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi ²)	Type of record	Period of record (water years)
Powell River near Arthur	03532000	TVA	685	C,S	1965, 1969-72, 1974-82
		TVA		T	1963-66, 1971-75
Ollis Creek at Ivydell	03532190	TVA	13.3	C	1974-78
Clinch River below Norris Dam	03533000	TVA	2,913	C	1968-70, 1972-80
Clinch River at Coal Creek	03533500	TVA	2,921	T	1976-79
Clinch River near Clinton	03534100	TVA	2,980	C	1971-74, 1977
Clinch River at Edgemoor	03534900	TVA	3,089	C	1969-78
Bullrun Creek near Halls Crossroads	03535000	USGS	68.5	T	1967-74
Clinch River near Eaton Crossroads	03535915	TVA	3,346	T	1963-79
Poplar Creek near Oak Ridge	03538225	USGS	82.5	C,S	1961-65, 1979-81
		USGS		T	1962-65
East Fork Poplar Creek near Oak Ridge	03538250	USGS	19.5	T	1962-68
Bear Creek near Oak Ridge	03538275	USGS	7.15	T	1962-63
Emory River near Wartburg	03538500	TVA	83.2	C	1965-68, 1975-76
Obed River near Lancing	03539800	TVA	518	T	1965-66
		TVA		C	1965-68
Crooked Fork near Wartburg	03539860	TVA	50.3	C	1965-68
		USGS		C,S	1979-81
Crab Orchard Creek near Deermont	03540100	TVA	33.7	C	1966-68
		TVA		T	1967-68
		USGS		C,S	1979-81
Emory River at Oakdale	03540500	TVA	764	C,S	1965-67, 1974-81
Tennessee River at Watts Bar Dam (tailwater)	03543005	USGS	17,310	B,C,S,T	1975-86
		USGS		T,C	1976-81
Richland Creek near Dayton	03544500	TVA	50.2	C	1966-67
		USGS		C,S	1979-82
Hiwassee River near Wetmore	03557050	TVA	1,233	C	1973-74, 1976
Hiwassee River at Patty	03557400	TVA	1,358	T	1976-78
Hiwassee River near Benton	03557405	TVA	1,362	C	1978-80
Ocoee River at Parksville	03564500	TVA	595	C	1971-72, 1976-80
Oostanaula Creek near Sweetwater	03565428	USGS		C,S,T	1993-95
Oostanaula Creek below Johnson Branch near Athens	03565430	USGS		C,S,T	1993-95
Oostanaula Creek near Sanford	03565500	USGS	57.0	C,S	1979-82
Tennessee River at Sequoyah Nuclear Plant	03566404	TVA	20,630	C	1975-78
Tennessee River near Harrison Bay State Park	03566405	TVA	20,650	C	1969-73
Tennessee River at Chickamauga Dam (tailwater)	03566510	TVA	20,790	C	1975-80
Tennessee River at Nickajack Dam (tailwater gage)	03570525	TVA	21,849	C	1975-78
Sequatchie River near Dunlap	03570835	TVA	292	C	1975-78
Sequatchie River near Whitwell	03571000	TVA	402	T	1962-71
		TVA		C	1965, 1970, 1974-75
		USGS		C,S	1979-82
Sequatchie River at Whitwell Waterworks near Whitwell	03571200	TVA	410	C	1975-79
Tennessee River at South Pittsburg	03571850	USGS	22,640	T	1975-82
		USGS		C	1975-79, 1981
		USGS		B,C,S,T	1974-86
Bradley Creek Tributary at AEDC near Manchester	03578455	USGS		T	1993-95
Brumalow Creek at AEDC near Manchester	03578600	USGS		T	1993-95
Rowland Creek at AEDC near Manchester	03578970	USGS		T	1993-95
Elk River near Estill Springs	03579100	TVA	275	C	1974-78
		TVA		T	1971-77

WATER RESOURCES DATA - TENNESSEE, 2000

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Agency designations: USGS, U.S. Geological Survey; TVA, Tennessee Valley Authority.
Type of record: (B) biological, (C) chemical, (S) sediment, (T) temperature.]

Station name	Station number	Agency	Drainage area (mi ²)	Type of record	Period of record (water years)
Boiling Fork Creek near Decherd	03580110	TVA	37.7	T	1975-77
Elk River below Tims Ford Dam	03580750	TVA	534	T	1971-79
		TVA		C	1966-67, 1973-75-80
Elk River above Fayetteville	03582000	TVA	827	C	1974, 1977-80
		USGS		T	1961-64
Elk River at Fayetteville	03582400	TVA	895	T	1976-78
Cane Creek near Fayetteville	03582600	TVA	106	T	1969-73
Richland Creek near Pulaski	03584000	TVA	366	T	1965-73
Elk River near Prospect	03584500	TVA	1,784	T	1961-64
Shoal Creek at Iron City	03588500	TVA	348	C,S	1974-80
		USGS		C,S	1980-83
Tennessee River at Pickwick Landing Dam	03593005	USGS	32,820	C,T	1976-82
Beech River near Chesterfield	03594439	TVA	121	C	1969-71, 1976
Duck River below Manchester	03596000	TVA	107	C	1967-68, 1970-71
		TVA		T	1976-80
		USGS		C,S	1975, 1979-83
Duck River at Normandy	03596500	TVA	208	T	1969-75
Duck River at Shelbyville Waterworks	03597850	TVA	425	C	1975-80
Duck River near Shelbyville	03598000	TVA	481	T	1961-64, 1976-78
Duck River near Columbia	03599460	TVA	1,176	T	1974-82
Duck River at Columbia Waterworks	03599482	TVA	1,195	C	1975-80
Piney River at Vernon	03602500	TVA	193	T	1964-67
Duck River above Hurricane Mills	03603000	TVA	2,557	C	1966-67, 1974-80
		TVA		T	1961-64
Buffalo River near Flat Woods	03604000	TVA	447	T	1964-68
Buffalo River near Lobelville	03604500	TVA	707	T	1961-64
		TVA		C	1967-68, 1973-76
Trace Creek above Denver	03605555	USGS	31.9	C	1979-83
Big Sandy River at Bruceton	03606500	TVA	205	T	1971-78
		TVA		C	1968, 1970-72
		USGS		C,S	1976, 1979-83
North Reelfoot Creek at Clayton	07026360	USGS	54.7	C,S	1982-84
North Reelfoot Creek at State Hwy 22 near Clayton	07026370	USGS	56.3	C,S	1983-89
Obion River at Hwy 51 near Obion	07026040	USGS	1,875	C,S,T	1975-95
South Reelfoot Creek near Clayton	07026400	USGS	38.6	C,S	1984-89
Bayou Du Chien near Walnut Log	07026695	USGS	27.8	C,T	1986-88
Indian Creek near Samburg	07026795	USGS	8.01	C,S	1982-84
Reelfoot Lake Spillway near Tiptonville	07027002	USGS	240	C,T	1975-76, 1986-88
Mosses Creek near Pocahontas	07029410	USGS	47.6	C,S	1961, 1963, 1977-78
Hatchie River near Lacy	07029425	USGS	1,033	C,S	1977-78
Big Muddy Creek at Stanton	07030010	USGS	84.4	C,S	1977-78
Cane Creek at Ripley	07030100	USGS	33.9	S	1985-87
Cane Creek at Three Point	07030137	USGS	79.8	S	1985-87
Loosahatchie River near Arlington	07030240	USGS	262	C,S	1979-82
Wolf River at Rossville	07030500	USGS	503	C	1961, 1963-68
Nonconnah Creek near Germantown	07032200	USGS	68.2	C,S	1979-82

WATER RESOURCES DATA - TENNESSEE, 2000

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with State, local, and Federal agencies, obtains a large amount of data pertaining to the water resources of Tennessee each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data - Tennessee."

This report consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains discharge records for 68 gaging stations; stage only at 1 gaging station; stage and contents at 32 lakes and reservoirs; water quality for 17 stations, and 6 wells; and water levels at 8 observation wells. Also included are data for 102 crest-stage partial-record stations. Locations of these sites are shown on figures 4 through 6. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and miscellaneous analyses or as seepage investigations.

This series of annual reports for Tennessee began with the 1961 water year with a report that contained only data relating to the quantities of surface water. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several years concurrent with it, water-resources data for Tennessee were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Water of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from the Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225.

Publications similar to this report are published annually by the USGS for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report TN-00-1." For archiving and general distribution, the reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (615) 837-4700.

WATER RESOURCES DATA - TENNESSEE, 2000**COOPERATION**

The USGS and agencies of the State of Tennessee have had cooperative agreements for the systematic collection of streamflow records since 1918, for ground-water levels since 1946, and for water-quality records since 1960. Organizations that assisted in collecting data contained in this report through cooperative agreement with the Survey are:

Athens Utility District
Tennessee Department of Environment and Conservation
Tennessee Department of Transportation
Tennessee Wildlife Resources Agency
Duck River Development Agency
Harpeth Valley Utility District
Hixson Utility District
Savannah Valley Utility District
Cities, Towns, or Counties;
Alcoa
Blount
Camden
Dickson
Franklin
Germantown
Harriman
Jackson
Knox
Lewisburg
Lincoln
Maryville
Medina
Memphis
Metropolitan Government of Nashville and Davidson County
Murfreesboro
Rogersville
Sevierville
Shelby
Springfield
Wartrace

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, Nashville District, in collecting records for 8 gaging stations and 6 water-quality stations, by the Tennessee Valley Authority for 8 gaging stations, and by the U.S. Department of Energy for 2 gaging stations on Oak Ridge Reservation. All data are published in this report.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

The State of Tennessee derives many benefits from an abundance of streams, rivers, and lakes. Excluding the Mississippi River, which flows south along Tennessee's western boundary, the largest rivers in the State are the Tennessee and Cumberland Rivers. The Tennessee and Cumberland Rivers are highly regulated by an extensive system of multipurpose dams and reservoirs. Natural conditions generally only occur in tributaries to the major rivers or other streams draining relatively small basins throughout the State. Streamflow data from these unregulated streams can be used to describe hydrologic conditions across the State.

A comparison of annual mean discharges for the 2000 water year with means for the period-of-record for unregulated streams indicates that runoff during the water year was significantly below average across the entire State. Discharge data from unregulated streams in East and Middle Tennessee (east of Kentucky Lake on the Tennessee River) averaged only about 53 percent of the means for period-of-record. In West Tennessee, annual mean discharges averaged only about 45 percent of the period-of-record means. Monthly mean discharges were below period-of-record means for most of the water year throughout the State. Monthly mean discharges approached or exceeded the long-term mean values only for the months of April and May.

There were no significant flood events recorded at USGS streamgages in Tennessee during the 2000 water year.

Ground Water

Ground-water levels at key aquifers throughout Tennessee were affected by rainfall during the 2000 water year. Ground-water levels are recorded continuously at a series of observation wells across the State (fig. 1). Water levels at well Ld:F-4 (Lauderdale County) is representative of conditions in West Tennessee. Well Hm:O-15 (Hamilton County) and well Pm:C-1 (Putnam County) are representative of conditions in Middle and East Tennessee.

Water levels recorded from wells throughout Middle and East Tennessee generally respond faster with larger fluctuations than wells drilled into the sand and gravel aquifers of West Tennessee. Observation wells in Shelby County show that ground water levels are strongly affected by ground-water withdrawals by the City of Memphis and surrounding communities. At well Sh:Q-1 (fig. 2), near downtown Memphis, water levels declined steadily since 1972, although a slower rate of decline began in 1988. The decline in ground-water levels in the Memphis area are not indicative of a reduction in the available ground-water supplies, but the response of the aquifer to additional withdrawals. Hydrographs showing lowest monthly water levels for each of the continuous recording observation wells are included in the body of this report.

WATER RESOURCES DATA - TENNESSEE, 2000Water Quality

Water-quality data were collected at 29 surface-water sites and 19 ground-water sites during the 2000 water year. About half of these sites are located in the Tennessee River Basin and were sampled as part of the U.S. Geological Survey's National Water-Quality Assessment (NAWQA) Program. Data for pesticides in surface water were collected at four NAWQA sites. Other water-quality activities included:

- o Operation of four continuous monitors to measure temperature, dissolved oxygen, pH, and specific conductance in the Cumberland River Basin in support of the U.S. Army Corps of Engineers, Nashville District operations.
- o Operation of a continuous monitor to measure temperature, dissolved oxygen, pH, and specific conductance in the West Fork Stones River in support of a water-resources program in cooperation with the City of Murfreesboro, Tennessee.
- o Operation of a continuous monitor to measure temperature and dissolved oxygen in the Duck River in cooperation with the Duck River Development Agency.
- o Operation of a two continuous monitors to measure temperature, dissolved oxygen, pH, and specific conductance in the Cumberland River at Nashville in cooperation with the Davidson County Metropolitan area, Tennessee.
- o Quarterly samples at three sites for the determination of water quality in Carter's Creek in Maury County, Tennessee.

The data collected for NAWQA sites identified low-level concentrations of pesticides in surface and shallow ground water. Fecal indicator bacteria exceeded 1,000 colonies per 100 milliliters in at least one sample collected at each of the NAWQA surface-water sites that were sampled monthly.

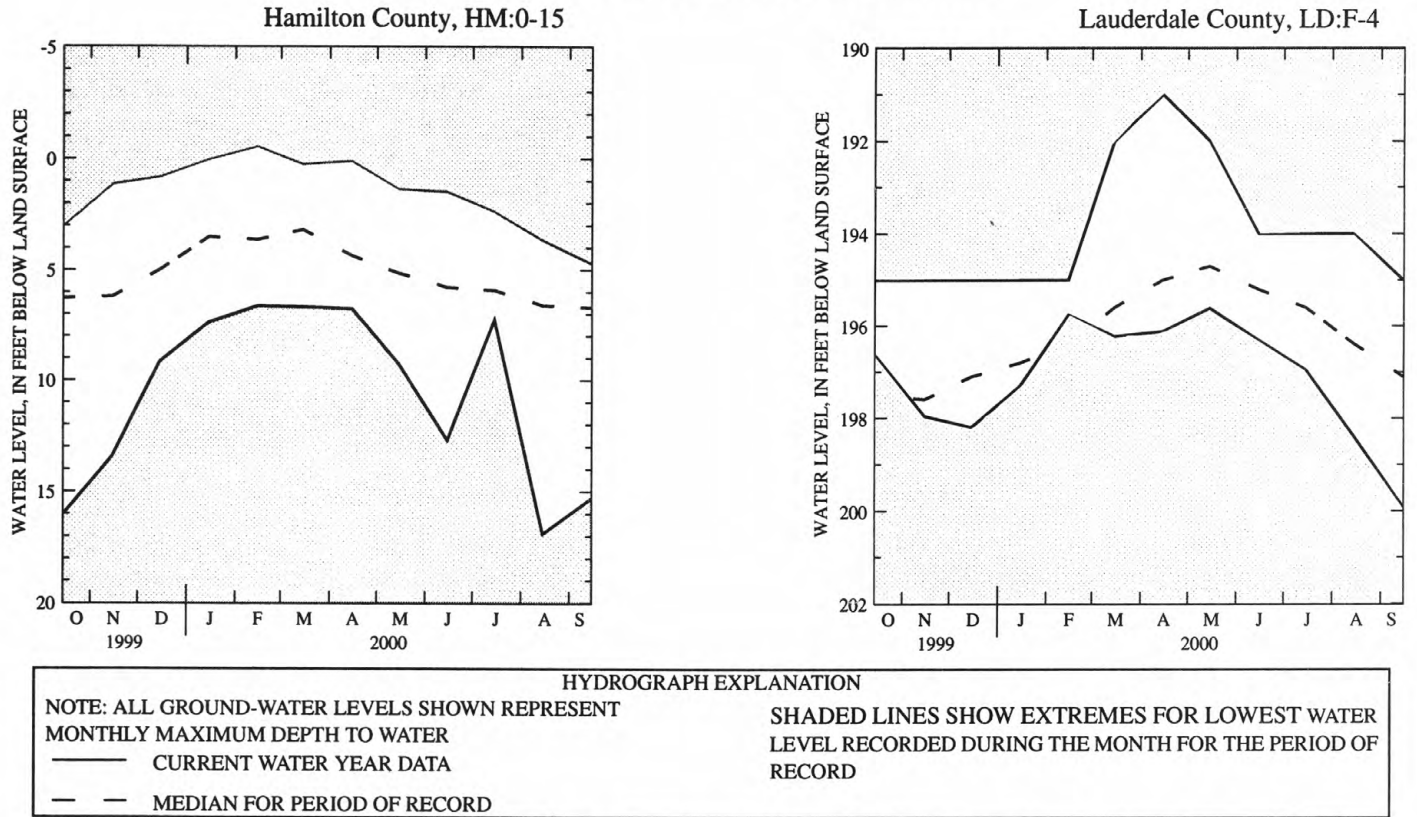
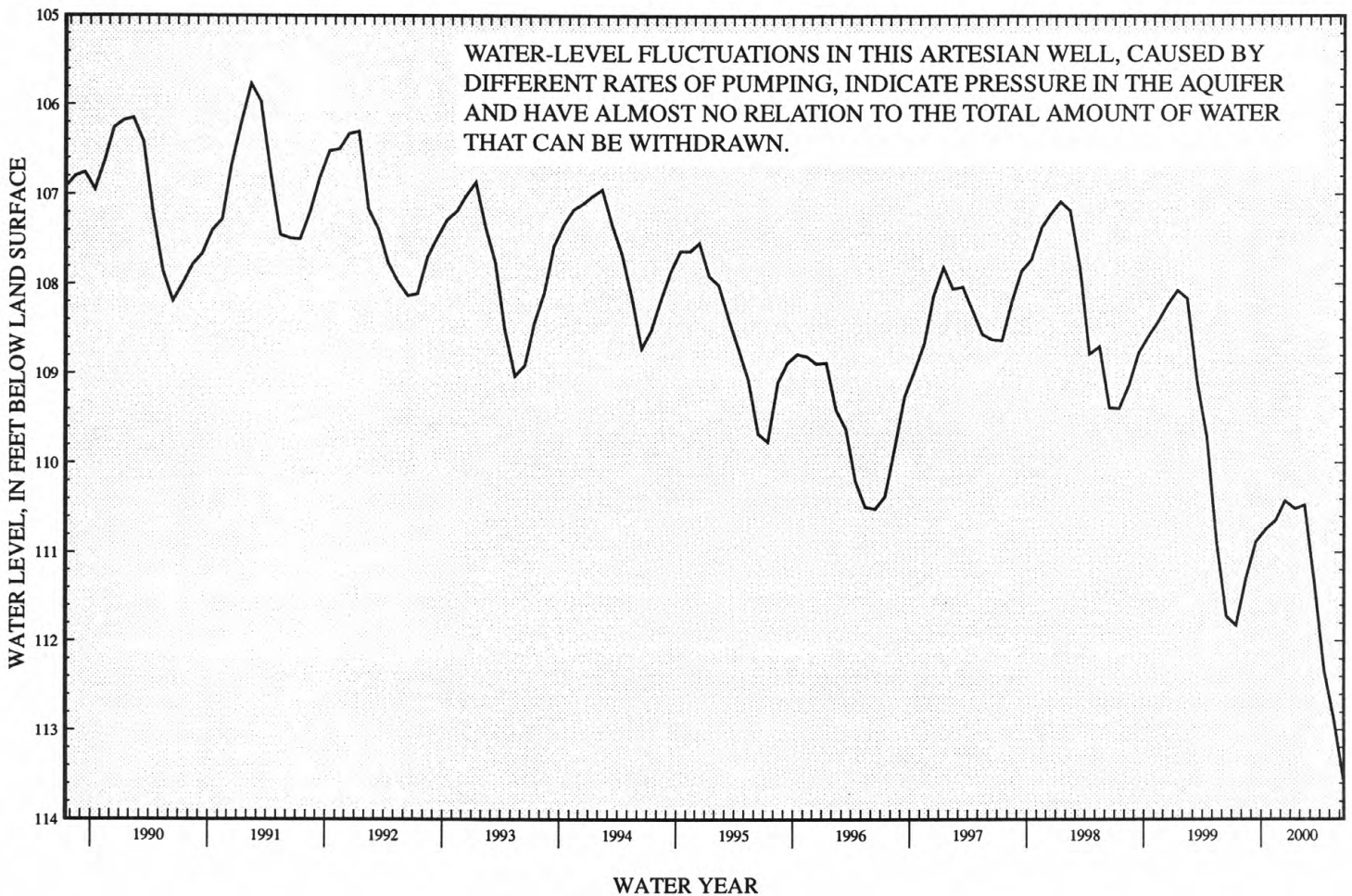


Figure 1. Ground-water levels for the 2000 water year compared to the maximum, minimum, and median water levels for the period of record.



SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x schedules to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://www.rvares.er.usgs.gov/nawqa/nawqa_home.html

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface water. In addition to the surface water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF RECORDS

The surface-water and ground-water records published in this report are for the 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4 through 7. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the USGS to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

Each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete number for each station such as 03540500...., which appears just to the left of the station name, includes the 2-digit part number "03" plus the multi-digit downstream order number "540500...." This downstream numbering system is used in most cases; however, in some cases latitude and longitude numbers are assigned to hydrologic stations and partial-record stations as a means of identification (See Numbering System for Wells).

Numbering system for wells

Downstream order station numbers are not assigned to wells. The well numbering system of the USGS is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid.

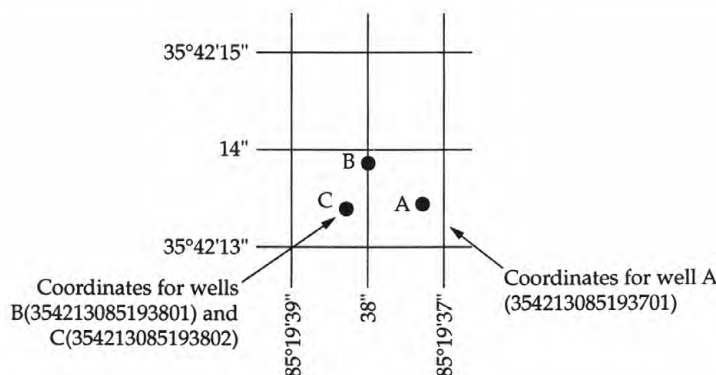


Figure 3.--System for numbering wells (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relation between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relation between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the USGS. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed from gage heights and rating tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements are used in applying the gage heights to the rating tables. The shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and comparable records of discharge for other stations in the same or nearby basins.

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileage is that determined and used by the USGS, Tennessee Valley Authority, U.S. Army Corps of Engineers, or other agencies using methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see "Definition of terms"), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent times. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum line (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____-____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar water year and for a designated period, as appropriate. The designated period selected, "WATER YEARS ____-____," will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. When the designated period is not the same as the station period of record published in the manuscript, values and dates of occurrence for daily and instantaneous extremes outside the designated period will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnote.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes. At least 5 complete years of record must be available before this statistic is published for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

ANNUAL RUNOFF (CFSM).--Indicates the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures to more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Records of discharge, not published by the USGS, are collected in Tennessee at several sites by the U.S. Army Corps of Engineers and Tennessee Valley Authority. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the USGS. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurements notes, gage-height records, temperature measurements, and rating tables are on file in the Tennessee District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are collected at or near stream-gaging stations. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (NASQAN) (see definitions) are obtained from at least several verticals.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the USGS will begin using new trace-element protocols in the near future.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the USGS District Office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum, minimum, and mean temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office and are also published in this report.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar water discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the USGS laboratories in Arvada, Colo. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the USGS's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Users of USGS water-quality data should be aware of this update procedure because corrections are not documented in the State data-report series.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUTREMARK

E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colon count)
L	Biological organisms count less than 0.5 percent (organisms may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant
V	Analyte was detected in both the environmental sample and the associated blanks.

Dissolved Trace-Element Concentrations

*NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples that may be collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analyses of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collect in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental

sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Change in National Trends Network Procedures

*NOTE.--Samples handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Records of Ground-Water Levels

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the current water year, and a graph of the water levels for the current water year or other selected period. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings of the well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that are also water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the USGS and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level. A hydrograph for a selected period of record follows each water-level table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

EXPLANATION OF PRECIPITATION-QUALITY RECORDS

Collection of the Data

The precipitation-quality records in this report are for one site operated by the USGS in the National Trends Network. Field measurements of pH and specific conductance of weekly composite precipitation samples and daily precipitation quantity are made. Other chemical analyses for all National Trends Network sites are performed by the Central Analytical Laboratory of the Illinois Water Survey. A numerical agency code (17003) has been assigned to the Illinois Water-Survey for data storage purposes.

ACCESS TO WATSTORE DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

<http://water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page)

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algae are mostly aquatic single-celled, colonial, or multicelled plants containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

Cubic foot per second per square mile [CFSM, (ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inch (IN., in.) as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of

enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis*, *Streptococcus feacium*, *Streptococcus avium*, and their variants.

Escherichia coli (*E. coli*) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $\frac{4}{3} \pi r^3$ cone $\frac{1}{3} \pi r^2 h$ cylinder $\pi r^2 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the

material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date

shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:
<http://www.co-ops.nos.noaa.gov/tideglos.html>

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that

have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_0 e^{-\lambda L},$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA web site:
<http://www.co-ops.nos.noaa.gov/tideglos.html>

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the

immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, $\mu\text{g/kg}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, $\mu\text{S/cm}$) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One

million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88>

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and

solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is the plant part of the plankton.

They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within

the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [$\text{mg O}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg O}/(\text{m}^3/\text{time})$] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453.

Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. See: http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) $\times$ discharge (ft³/s) $\times$ 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified,

such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q₁₀, 7Q₁₀) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q₁₀ has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See “Gage height.”

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to

discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	<i>Hexagenia</i>
Species	<i>Hexagenia limbata</i>

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2000, is called the "2000 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement**Section D. Water Quality**

- 1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS-TWRI book 1, chap. D2. 1976. 24 pages.

Book 2. Collection of Environmental Data**Section D. Surface Geophysical Methods**

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS-TWRI book 2, chap. D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS-TWRI book 2, chap. D2. 1988. 86 pages.

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- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS-TWRI book 2, chap. E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS-TWRI book 2, chap. E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS-TWRI book 2, chap. F1. 1989. 97 pages.

Book 3. Applications of Hydraulics**Section A. Surface-Water Techniques**

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 pages.
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TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS-TWRI book 3, chap. A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 pages.
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- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS-TWRI book 3, chap. A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 pages.
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- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 pages.
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- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 pages.

Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS-TWRI book 3, chap. B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS-TWRI book 3, chap. B6. 1987. 28 pages.
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- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H.P. Guy and V.W. Norman: USGS-TWRI book 3, chap. C2. 1970. 59 pages.
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- 4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS-TWRI book 4, chap. A2. 1968. 15 pages.

Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS-TWRI book 4, chap. B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS-TWRI book 4, chap. B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS-TWRI book 4, chap. B3. 1973. 15 pages.

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- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS-TWRI book 4, chap. D1. 1970. 17 pages.

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- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS-TWRI book 5, chap. A4. 1989. 363 pages.
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- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS-TWRI book 5, chap. A6. 1982. 181 pages.

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- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS-TWRI book 5, chap. C1. 1969. 58 pages.

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- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS-TWRI book 6, chap. A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS-TWRI book 6, chap. A3. 1993. 136 pages.
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- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations**Section C. Computer Programs**

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI book 7, chap. C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS-TWRI book 7, chap. C3. 1981. 110 pages.

Book 8. Instrumentation**Section A. Instruments for Measurement of Water Level**

- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS-TWRI book 8, chap. A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS-TWRI book 8, chap. A2. 1983. 57 pages.

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- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 8, chap. B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations**Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A1. 1998. 47 p.
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- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS-TWRI book 9, chap. A8. 1998. 48 pages.
- 9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS-TWRI book 9, chap. A9. 1998. 60 pages.

Map number	Station number and name	Page	Map number	Station number and name	Page
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3	03421000 COLLINS RIVER NEAR MCMINNVILLE	56-57	38	03538235 EAST FORK POPLAR CR AT BEAR CR RD AT OAK RIDGE	172-173
4	03424730 SMITH FORK AT TEMPERANCE HALL	58-59	39	03538270 BEAR CREEK AT STATE HIGHWAY 95 NEAR OAK RIDGE	174-175
5	03426310 CUMBERLAND RIVER AT OLD HICKORY DAM	60-68	40	03539600 DADDY'S CREEK NEAR HEBBERTSBURG	176-177
6	03426385 MANSKER CREEK ABOVE GOODLETTSVILLE	70-71	41	03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING	178-179
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9	03430147 STONERS CREEK NEAR HERMITAGE	82-83	44	03566000 HIWASSEE RIVER AT CHARLESTON	184-185
10	03430550 MILL CREEK NEAR NOLENSVILLE	84-85	45	035661285 NORTH MOUSE CR NR ROCKY MTN. HOLLOW NR ATHENS	186-187
11	03431060 MILL CREEK AT THOMPSON LANE NEAR WOODBINE	86-87	46	03568000 TENNESSEE RIVER AT CHATTANOOGA	188-189
12	03431300 BROWNS CR AT STATE FAIRGROUND AT NASHVILLE	88-89	47	035825882 CANE CREEK NEAR HOWELL, TN	196-197
13	034315005 CUMBERLAND RIVER AT WOODLAND ST AT NASHVILLE	90-91	48	03593500 TENNESSEE RIVER AT SAVANNAH	206-207
14	03431599 WHITES CREEK NEAR BORDEAUX	98-99	49	03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE	208-209
15	03431700 RICHLAND CREEK AT CHARLOTTE AVE AT NASHVILLE	100-101	50	03597590 WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE	210-211
16	03432350 HARPETH RIVER AT FRANKLIN	102-103	51	03597860 DUCK RIVER AT SHELBYVILLE	212
17	03432390 SPENCER CREEK NEAR FRANKLIN	104-105	52	03598000 DUCK RIVER NEAR SHELBYVILLE	218-219
18	03432400 HARPETH RIVER BELOW FRANKLIN	106-107	53	03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS	220-221
19	03433500 HARPETH RIVER AT BELLEVUE	108-109	54	03599000 BIG ROCK CREEK AT LEWISBURG	224-225
20	03434500 HARPETH RIVER NEAR KINGSTON SPRINGS	110-111	55	03599500 DUCK RIVER AT COLUMBIA	226-227
21	03435305 RED RIVER BELOW HWY 161 AT BARREN PLAINS	118-119	56	03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK	230-231
22	03435970 MILLERS CREEK AT TURNERSVILLE	120	57	03602219 PINEY RIVER AT CEDAR HILL	234
23	03436100 RED RIVER AT PORT ROYAL	122-123	58	03604000 BUFFALO RIVER NEAR FLATWOODS	240-241
24	03455000 FRENCH BROAD RIVER NEAR NEWPORT	128-129	59	03605078 CYPRESS CREEK AT CAMDEN, TN	242
25	03461500 PIGEON RIVER AT NEWPORT	130-123	60	07027000 REELFOOT LAKE NEAR TIPTONVILLE	250-251
26	03465500 NOLICHUCKY RIVER AT EMBREEVILLE	124-131	61	07028930 TURKEY CREEK AT MEDINA	252-253
27	03466208 BIG LIMESTONE CREEK NEAR LIMESTONE	134-135	62	07028960 MIDDLE FORK FORKED DEER RIVER NEAR FAIRVIEW	254-255
28	03466228 SINKING CREEK AT AFTON	142-143	63	07029500 HATCHIE RIVER AT BOLIVAR	256-257
29	03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE	152-153	64	07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON	258-259
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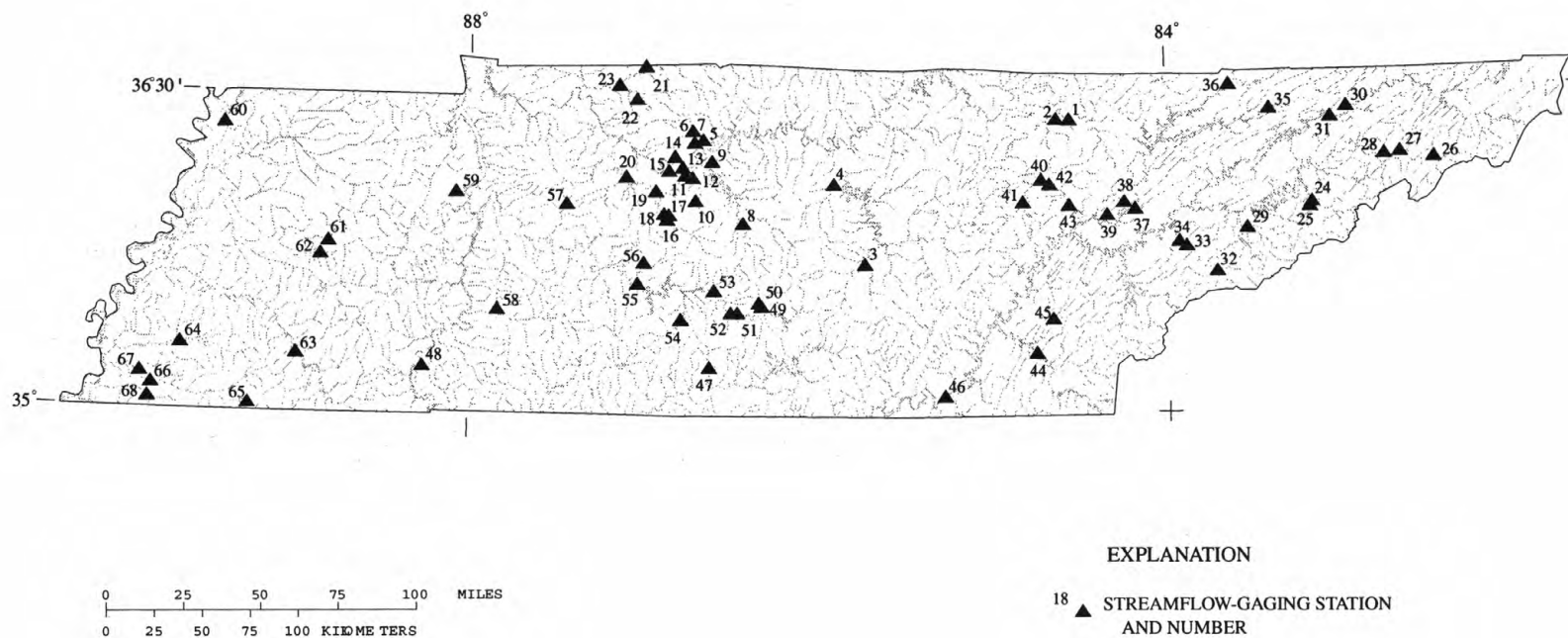


Figure 4.—Location of streamflow-gaging stations in Tennessee.

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1 03409000	WHITE OAK CREEK NEAR SUNBRIGHT	268
2 03414500	EAST FORK OBEY RIVER NEAR JAMESTOWN	268
3 03416000	WOLF RIVER NEAR BYRDSTOWN	268
4 03418201	DOE CREEK AT GAINESBORO	268
5 03419200	CANE CREEK NEAR SPENCER	269
6 03421200	CHARLES CREEK NEAR MCMINNVILLE	269
7 03424900	MULHERRIN CREEK NEAR GORDONSVILLE	269
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9 03425365	SECOND CREEK NEAR WALNUT GROVE	269
10 03425637	STATION CAMP CREEK AT COTTONTOWN	269
11 03426800	EAST FORK STONES RIVER AT WOODBURY	269
12 03426874	BRAWLEYS FORK BELOW BRADYVILLE	269
13 034269424	REED CREEK NEAR BRADYVILLE	270
14 03427500	EAST FORK STONES RIVER NEAR LASCASSAS	270
15 03427690	BUSHMANN CREEK AT PITTS LANE FORD NEAR COMPTON	270
16 03428043	LYTLE CREEK SANBYRNE DRIVE AT MURFREESBORO	270
17 03428270	UNNAMED SINK NEAR ALMAVILLE	270
18 03428500	WEST FORK STONES RIVER NEAR SMYRNA	270
19 03428513	UNNAMED SINK ON I-840 AT LEANNA	271
20 03428515	UNNAMED SINK AT LEANNA	271
21 03430118	MCCRORY CREEK AT IRONWOOD DRIVE AT DONELSON	271
22 03430400	MILL CREEK AT NOLENSVILLE	271
23 03431000	MILL CREEK NEAR ANTIOCH	271
24 03431040	SEVENMILE CREEK AT BLACKMAN ROAD	271
25 03431062	MILL CREEK TRIB AT GLENROSE AVENUE AT WOODBINE	271
26 03431120	WEST FK BROWNS CR @ GEN. BATES DR @ NASHVILLE	272
27 03431242	EAST FORK BROWNS CREEK AT 100 OAKS MALL AT NASHVILLE	272
28 03431340	BROWNS CREEK AT FACTORY STREET AT NASHVILLE	272
29 03431490	PAGES BRANCH AT AVONDALE	272
30 03431550	EARTHMAN FORK AT WHITES CREEK	272
31 03431581	EWING CREEK BELOW KNIGHT ROAD NEAR BORDEAUX	272
32 03431677	SUGARTREE CR @ YMCA ACCESS RD @ GREEN HILLS	272
33 03431679	SUGARTREE CR @ ABBOTT MARTIN RD @ GREEN HILLS	273
34 03431800	SYCAMORE CREEK NEAR ASHLAND CITY	273
35 03432470	MURFREES FORK ABOVE BURWOOD	273
36 03432925	LITTLE HARPETH RIVER AT GRANNY WHITE PIKE	273
37 03434590	JONES CREEK NEAR BURNS	273
38 034350021	BARTONS CREEK NEAR CUMBERLAND FURNACE	273
39 034350035	LOUISE CREEK NEAR GREYS CHAPEL	273
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45 03436082	SULPHUR FORK CREEK ABOVE PORT ROYAL	274
46 03436130	PASSENGER CREEK NEAR SANGO	274
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48 03436700	YELLOW CREEK NEAR SHILOH	275
49 03461230	CANEY CREEK NEAR COSBY	275
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78 03569168	STRINGERS BRANCH AT LEAWOOD DRIVE AT RED BANK	279
79 03571500	LITTLE SEQUATCHIE RIVER AT SEQUATCHIE	279
80 03571730	STANDIFER BRANCH AT JASPER	279
81 03571800	BATTLE CREEK NEAR MONTEAGLE	279
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83 03594153	INDIAN CREEK AT HWY 64 NEAR OLIVEHILL	279
84 035944242	OWL CREEK AT LEXINGTON	279
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87 03602170	WEST PINEY RIVER NEAR DICKSON	280
88 03602500	PINEY RIVER AT VERNON	280
89 03604090	COON CREEK ABOVE CHOP HOLLOW NEAR HOHENWALD	280
90 03604580	BLUE CREEK NEAR NEW HOPE	280
91 03605555	TRACE CREEK ABOVE DENVER	280
92 03605880	CANE CREEK NEAR STEWART	280
93 07024225	NEIL DITCH NEAR HENRY	281
94 07024370	LITTLE REEDY CREEK NEAR HUNTINGDON	281
95 07024500	SOUTH FORK OBION RIVER NEAR GREENFIELD	281
96 07024760	SPRING CREEK NEAR GREENFIELD	281
97 07025400	NORTH FORK OBION RIVER NEAR MARTIN	281
98 07025500	NORTH FORK OBION RIVER NEAR UNION CITY	281
99 07028505	NORTH FORK FORKED DEER RIVER AT TRENTON	281
101 07029090	LEWIS CREEK NEAR DYERSBURG	281
102 07029900	HATCHIE RIVER AT SUNNYHILL	282
103 07030100	CANE CREEK AT RIPLEY	282

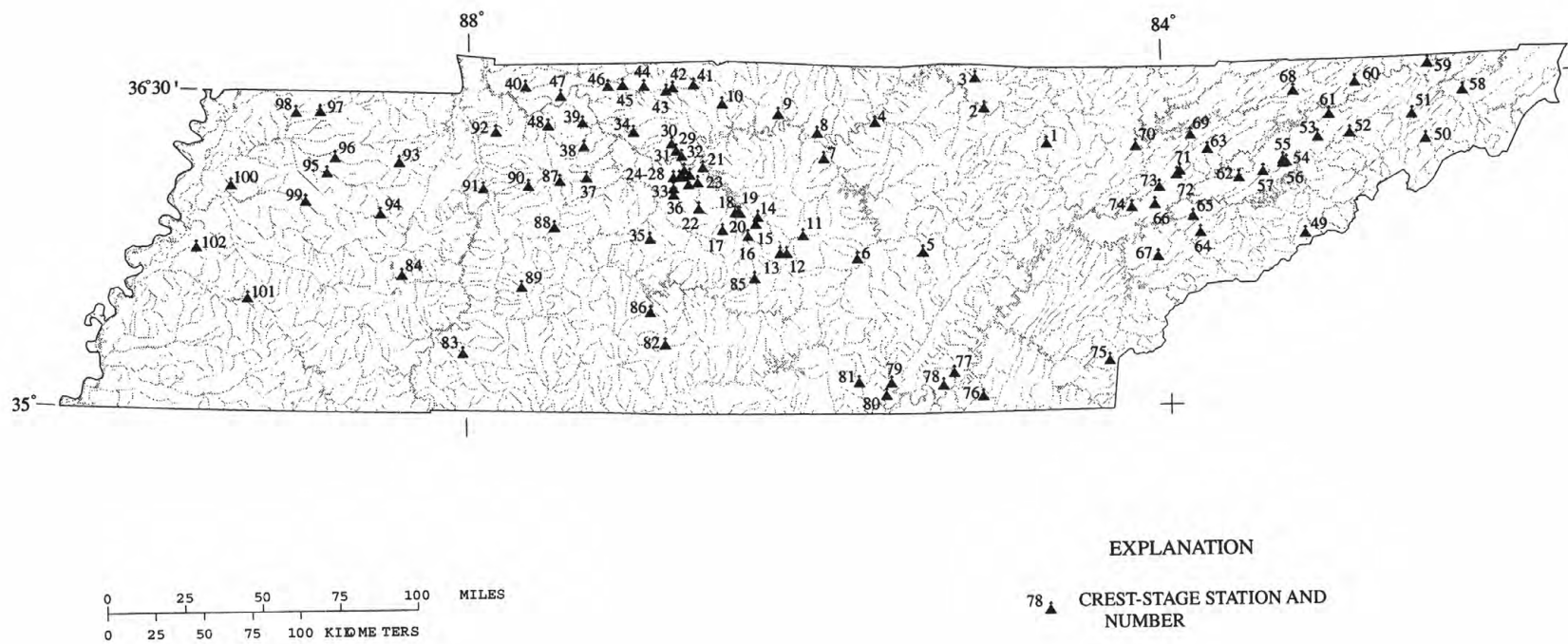


Figure 5.—Location of crest-stage gages in Tennessee.

Map number	Station number and name	Page	Map number	Station number and name	Page
1	03417500 CUMBERLAND RIVER AT CELINA	44-49	13	03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN	222-223
2	03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM	50-55	14	03600085 CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK	228
3	03426310 CUMBERLAND RIVER AT OLD HICKORY DAM	62-68	15	03600086 CARTERS CREEK TRIB NEAR CARTERS CREEK	229
4	03428200 WEST FORK STONES RIVER AT MURFREESBORO	76-81	16	03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK	232
5	03431514 CUMBERLAND RIVER NEAR BORDEAUX	92-97	17	03603000 DUCK RIVER ABOVE HURRICANE MILL, TN	235-238
6	03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM	112-117	18	350034086422800 LI:G-1	326
7	03466208 BIG LIMESTONE CREEK NR LIMESTONE	136-141	19	350900089482300 SH:Q-1	329
8	03467609 NOLICHUCKY RIVER NR LOWLAND	144-150	20	350857089591401 SH:P-99	328
9	03568000 TENNESSEE RIVER AT CHATTANOOGA	190	21	351428085003600 HM:O-15	324
10	035825882 CANE CREEK NEAR HOWELL, TN	198-199	22	353839089493500 LD:F-4	325
11	03584600 ELK RIVER AT PROSPECT, TN	200-203	23	353922083345600 SV:E-2	327
12	03597860 DUCK RIVER AT SHELBYVILLE	213-216			

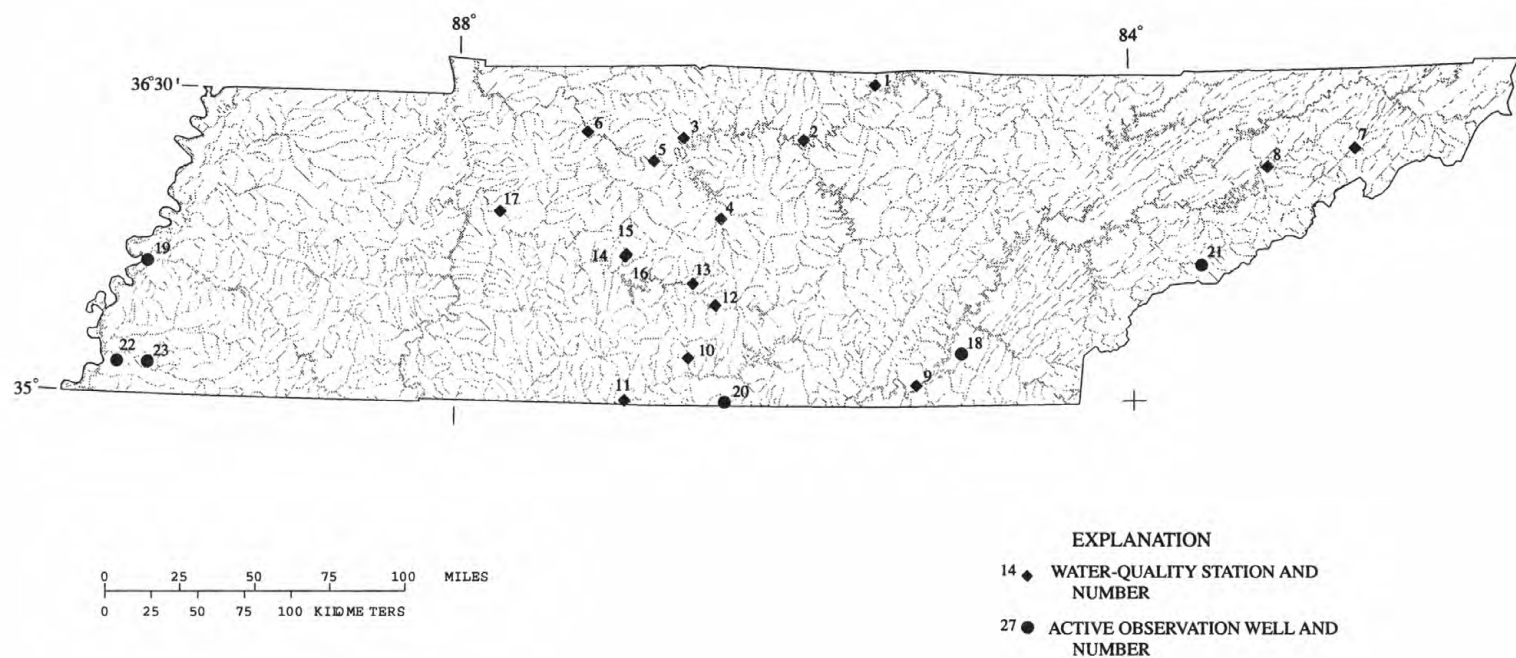


Figure 6.—Location of water-quality stations and active observation wells in Tennessee.

CUMBERLAND RIVER BASIN

03408500 NEW RIVER AT NEW RIVER, TN

LOCATION.--Lat 36°23'08", long 84°33'17", Scott County, Hydrologic Unit 05130104, on left bank at town of New River, 700 ft downstream from Phillips Creek, 1,000 ft downstream from bridge on U.S. Highway 27, 1.7 mi downstream from Brimstone Creek, and at mile 8.6.

DRAINAGE AREA.--382 mi².

PERIOD OF RECORD.--August 1934 to September 1991, October 1991 to September 1998, as stage only. October 1998 to current year. Gage-height records collected in this vicinity 1908-52 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1436: Drainage area. WDR TN-73: 1939(M), 1951(M), 1970(M).

GAGE.--Water-stage recorder. Datum of gage is 1,092.67 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63,700 ft³/s, May 27, 1973, gage height, 37.91 ft, from high water mark in gage well, from rating curve extended above 27,000 ft³/s on basis of slope-area and contracted-opening measurements of peak flow; no flow part of each day Aug. 12-14, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 23, 1929, reached a stage of 41.2 ft, discharge, 74,700 ft³/s, estimated, based on field survey at old U.S. Weather Bureau gage, 1,200 ft upstream at datum 3.41 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0630	*28,200	*23.81	No other peak greater than base discharge.			

Minimum discharge 0.50 ft³/s, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	3.4	61	47	566	1020	393	641	340	203	116	7.0
2	38	37	48	49	442	824	378	572	271	140	141	12
3	22	67	40	49	363	641	3330	504	224	106	137	9.0
4	15	92	35	801	329	569	19000	444	192	92	207	6.4
5	10	54	33	1020	290	548	3720	392	170	100	115	5.5
6	7.6	38	35	487	240	448	1910	335	174	82	80	4.3
7	5.0	27	40	318	212	388	1310	293	180	70	61	3.5
8	3.9	22	69	234	200	350	1260	260	137	56	50	3.1
9	6.8	19	e55	220	187	327	1240	230	116	48	54	4.2
10	38	16	61	379	182	306	1050	221	100	42	64	6.6
11	185	14	151	422	184	854	943	244	89	38	69	6.3
12	92	13	169	336	225	2680	1880	190	79	55	53	5.5
13	55	12	196	361	408	1410	1780	163	72	130	42	5.2
14	35	12	506	376	3770	1030	1430	141	68	144	31	4.5
15	26	11	410	296	2280	804	1150	125	82	91	26	3.7
16	22	11	279	259	1370	706	966	109	142	64	20	2.9
17	19	10	194	234	971	1300	863	101	130	46	16	2.4
18	14	9.4	146	852	1150	1230	811	95	e122	37	15	2.0
19	12	9.1	122	1310	1570	1070	700	92	e105	34	14	1.2
20	12	8.9	106	1070	1430	4760	675	89	e96.0	32	11	.94
21	11	8.6	94	820	1120	2910	1970	94	e87.0	34	9.8	2.8
22	11	8.2	89	601	898	1640	1080	108	167	44	9.3	2.9
23	10	7.6	85	493	724	1150	824	237	217	32	8.8	3.4
24	10	8.0	76	400	590	879	756	3930	133	24	8.4	4.1
25	9.5	16	69	320	496	698	1540	2300	90	20	8.4	5.0
26	8.9	348	63	271	425	574	1860	1500	80	23	8.1	5.3
27	8.8	306	56	212	856	573	1330	1180	237	25	8.1	6.3
28	8.4	170	54	186	1750	622	1140	956	1580	23	11	33
29	6.6	108	53	211	1290	512	935	757	579	45	9.7	22
30	5.1	80	50	557	---	483	763	597	319	41	8.2	14
31	4.3	---	48	685	---	449	---	441	---	60	6.4	---
TOTAL	732.9	1546.2	3493	13876	24518	31755	56987	17341	6378.0	1981	1418.2	195.04
MEAN	23.6	51.5	113	448	845	1024	1900	559	213	63.9	45.7	6.50
MAX	185	348	506	1310	3770	4760	19000	3930	1580	203	207	33
MIN	3.9	3.4	33	47	182	306	378	89	68	20	6.4	.94
CFSM	.06	.13	.29	1.17	2.21	2.68	4.97	1.46	.56	.17	.12	.02
IN.	.07	.15	.34	1.35	2.39	3.09	5.55	1.69	.62	.19	.14	.02

CUMBERLAND RIVER BASIN

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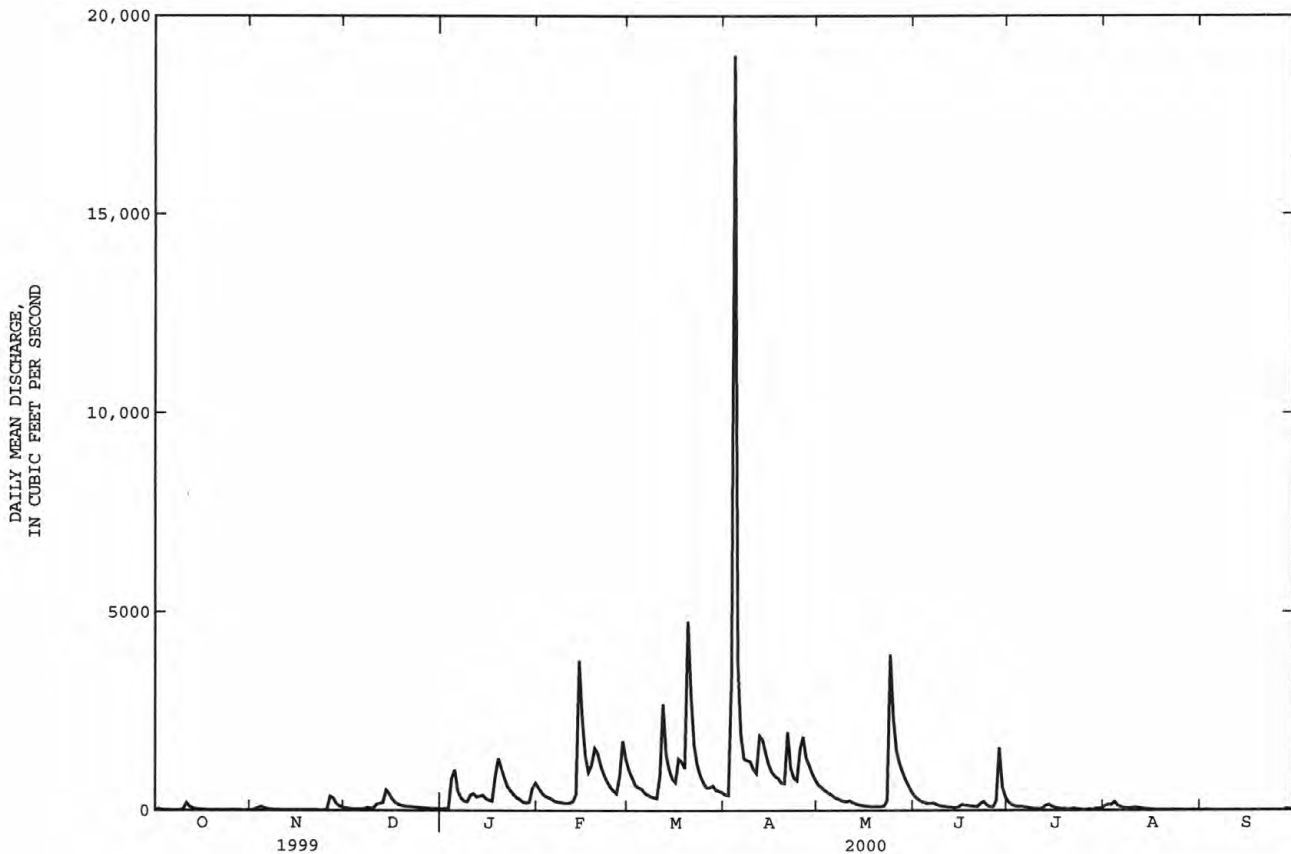
03408500 NEW RIVER AT NEW RIVER, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	142	506	1086	1397	1468	1547	1086	682	354	276	161	128
MAX	1035	2683	3359	4206	3891	4371	2564	3095	2850	1986	1159	1235
(WY)	1990	1958	1991	1937	1939	1975	1977	1973	1989	1967	1942	1989
MIN	.64	2.35	43.9	42.1	112	530	216	60.6	4.54	3.99	5.71	2.68
(WY)	1953	1940	1966	1981	1941	1985	1942	1936	1936	1944	1936	1953

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1934 - 2000
ANNUAL TOTAL	235472.4	160221.34	
ANNUAL MEAN	645	438	735
HIGHEST ANNUAL MEAN			1350
LOWEST ANNUAL MEAN			341
HIGHEST DAILY MEAN	9540	19000	a38000
LOWEST DAILY MEAN	1.1	.94	.10
ANNUAL SEVEN-DAY MINIMUM	1.3	2.2	.10
INSTANTANEOUS PEAK FLOW		28200	a63700
INSTANTANEOUS PEAK STAGE		23.81	b37.91
INSTANTANEOUS LOW FLOW		.50	c.00
ANNUAL RUNOFF (CFMS)	1.69	1.15	1.92
ANNUAL RUNOFF (INCHES)	22.93	15.60	26.13
10 PERCENT EXCEEDS	1540	1150	1640
50 PERCENT EXCEEDS	273	112	261
90 PERCENT EXCEEDS	8.9	8.1	17

- a Highest daily mean and instantaneous peak flows from rating curve extended above 27,000 ft³/s on basis of slope-area and contracted opening measurements of peak flow.
b Maximum stage from high-water mark in gage well.
c Minimum discharge also occurred Aug. 13-15, 1944.
e Estimated



CUMBERLAND RIVER BASIN

03409500 CLEAR FORK NEAR ROBBINS, TN

LOCATION.--Lat 36°23'18", long 84°37'49", Scott County, Hydrologic Unit 05130104, on right bank 300 ft downstream from Burnt Mill Bridge, 3.3 mi northwest of Robbins, and at mile 3.7.

DRAINAGE AREA.--272 mi².

PERIOD OF RECORD.--October 1930 to September 1971, July 1975 to September 1991, October 1991 to September 1998, stage only, October 1998 to current year. Published as Clear Fork River near Robbins, October 1951 to September 1954.

REVISED RECORDS.--WSP 1306: 1931(M), 1936-37(M), 1943-44(M). WSP 1436: Drainage area. WSP 1910: 1935(M).

GAGE.--Data collection platform. Datum of gage is 1,081.46 ft, Sandy Hook datum. Prior to Aug. 10, 1940, nonrecording gage at site 300 ft upstream at datum 1.00 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 23, 1929 reached a stage of 22.1 ft, former site and datum, from information by local residents, and flood of May 27, 1973, reached a stage of 18.92 ft, present site and datum, from floodmark; discharge 35,700 ft³/s, from rating curve extended above 14,000 ft³/s, on basis of slope-area measurement at gage height 18.5 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0800	*8,150	*9.88	No other peak greater than base discharge.			

Minimum discharge, 3.0 ft³/s, Oct. 2, 3, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.6	22	48	471	515	251	497	251	205	323	11
2	3.2	17	21	47	364	418	229	421	186	135	276	20
3	3.1	95	19	46	310	338	999	358	147	97	744	83
4	3.7	77	17	129	295	297	6840	812	124	75	395	89
5	4.1	47	17	499	248	262	3210	676	112	63	297	53
6	4.8	33	20	318	207	222	1450	445	103	51	193	37
7	4.2	25	20	215	190	191	941	339	92	43	122	27
8	3.6	20	25	168	177	170	797	274	79	36	90	22
9	4.2	16	e25	161	167	162	848	223	69	32	72	18
10	8.6	14	29	295	158	157	668	194	58	29	97	15
11	35	13	38	308	156	189	571	192	49	24	191	14
12	35	12	66	226	174	466	1870	170	42	29	107	13
13	24	10	111	233	270	472	1690	142	37	128	73	12
14	17	11	430	332	e2450	378	1180	120	34	213	53	10
15	12	11	e370	269	1930	321	899	103	32	108	42	9.7
16	9.5	9.9	e220	220	1010	307	703	89	37	68	34	8.8
17	6.8	8.3	146	196	666	1460	580	80	54	48	28	7.9
18	4.4	7.5	114	340	884	1220	531	73	92	36	24	7.6
19	5.0	8.3	96	622	1420	834	449	67	97	31	20	6.9
20	5.1	8.7	85	617	1130	3960	401	63	84	33	17	6.1
21	5.2	9.0	79	579	793	2790	1400	65	73	33	15	5.8
22	5.0	8.7	76	430	603	1380	899	64	315	29	13	5.2
23	4.2	8.9	68	353	484	e915	648	95	385	24	12	5.1
24	4.8	9.3	63	310	400	e675	589	3170	176	20	12	5.6
25	6.4	13	59	279	338	526	2260	2610	106	17	10	12
26	6.2	16	54	240	293	431	2090	1730	74	15	9.5	24
27	4.9	28	53	198	374	399	1230	1080	73	16	10	22
28	4.3	40	52	206	834	426	947	898	952	15	12	24
29	4.7	35	52	195	659	341	798	684	695	17	11	23
30	6.1	27	51	397	---	298	613	490	351	18	12	18
31	5.8	---	50	565	---	287	---	352	---	45	12	---
TOTAL	254.4	644.2	2548	9041	17455	20807	36581	16576	4979	1733	3326.5	615.7
MEAN	8.21	21.5	82.2	292	602	671	1219	535	166	55.9	107	20.5
MAX	35	95	430	622	2450	3960	6840	3170	952	213	744	89
MIN	3.1	5.6	17	46	156	157	229	63	32	15	9.5	5.1
CFSM	.03	.08	.30	1.07	2.21	2.47	4.48	1.97	.61	.21	.39	.08
IN.	.03	.09	.35	1.24	2.39	2.85	5.00	2.27	.68	.24	.45	.08

CUMBERLAND RIVER BASIN

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03409500 CLEAR FORK NEAR ROBBINS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	93.8	296	649	911	1029	1000	727	463	215	163	103	95.4
MAX	747	1303	2470	3418	2794	2757	1968	2043	1742	1122	940	974
(WY)	1990	1958	1991	1937	1939	1963	1977	1984	1989	1967	1971	1982
MIN	1.84	4.97	28.6	32.4	141	333	152	64.1	8.29	6.40	8.07	2.92
(WY)	1954	1954	1964	1981	1941	1969	1942	1948	1988	1944	1987	1953

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1931 - 2000

ANNUAL TOTAL	167349.6	114560.8	
ANNUAL MEAN	458	313	476
HIGHEST ANNUAL MEAN			864
LOWEST ANNUAL MEAN			215
HIGHEST DAILY MEAN	8000	Jan 23	a24800
LOWEST DAILY MEAN	3.1	Oct 3	.20
ANNUAL SEVEN-DAY MINIMUM	3.5	Sep 18	.51
INSTANTANEOUS PEAK FLOW			a34000
INSTANTANEOUS PEAK STAGE			b18.50
INSTANTANEOUS LOW FLOW			d.20
ANNUAL RUNOFF (CFSM)	1.69		1.75
ANNUAL RUNOFF (INCHES)	22.89		23.79
10 PERCENT EXCEEDS	1170		1100
50 PERCENT EXCEEDS	114		159
90 PERCENT EXCEEDS	5.1		11

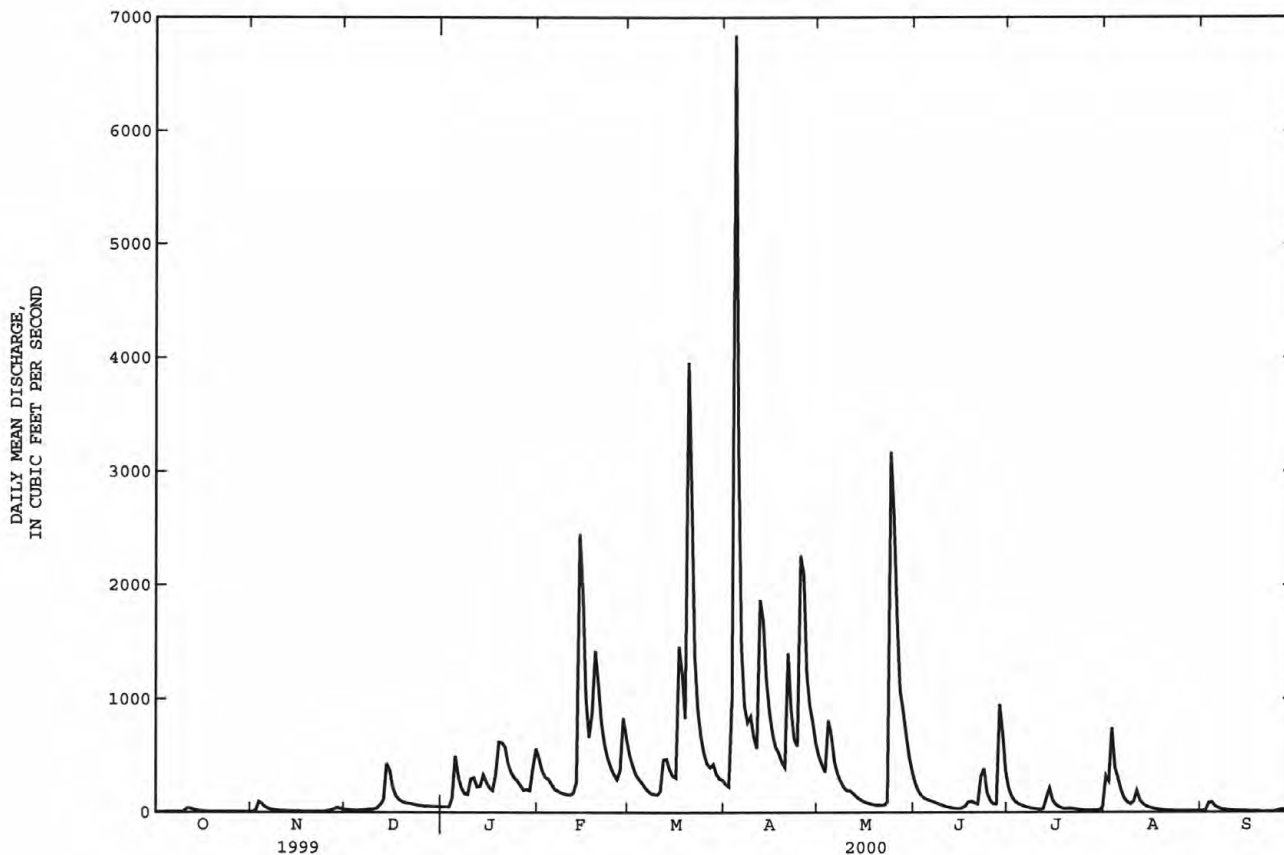
a Highest daily-mean and instantaneous peak flows from rating curve extended above 14,000 ft³/s, on basis of slope-area measurement of peak flow.

b Maximum stage from flood marks, site and datum then in use.

c Also occurred Oct. 3, 9.

d Also occurred Sept. 20, 21, 1932.

e Estimated



CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°33'15", long 85°30'52", Clay County, Hydrologic Unit 05130106, on right bank at State Highway 52 bridge, 0.5 mi northwest of courthouse in Celina, 600 ft downstream from Obey River, and at mile 380.8.

DRAINAGE AREA.--7,307 mi².

PERIOD OF RECORD.--November 1991 to September 1997, October 1999 to September 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1991 to September 1997, October 1999 to September 2000.

pH: November 1991 to September 1997, October 1999 to September 2000.

WATER TEMPERATURE: November 1991 to September 1997, October 1999 to September 2000.

DISSOLVED OXYGEN: October 1992 to September 1997, October 1999 to September 2000.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Lake Cumberland (station 03413500) and Dale Hollow Lake (station 03416500). Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 280 microsiemens, Aug. 29, 1992; minimum, 113 microsiemens, Mar. 27, 1994.

pH: Maximum, 8.5 units, Mar. 3, 4, 6, 1992; minimum, 6.2 units, Sept. 14, 1993.

WATER TEMPERATURE: Maximum, 19.4°C, Aug. 19, 1997; minimum, 2.5°C, Feb. 9, 1995.

DISSOLVED OXYGEN: Maximum, 15.3 mg/L, Jan. 29, 2000; minimum, 6.6 mg/L, Sept. 23, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 249 microsiemens, Mar. 18; minimum, 131 microsiemens, Mar. 20.

pH: Maximum, 8.4 units, Feb. 10; minimum, 7.0 units, June 5.

WATER TEMPERATURE: Maximum, 18.1°C, June 13; minimum, 2.8°C, Jan. 26.

DISSOLVED OXYGEN: Maximum, 15.3 mg/L, Jan. 29; minimum, 6.6 mg/L, Sept. 23.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	187	185	186	190	185	188	188	186	187	190	187	189
2	187	185	186	199	185	190	188	185	187	190	187	189
3	187	186	187	198	188	192	189	186	187	191	186	189
4	188	186	187	195	189	192	191	186	188	217	191	200
5	188	181	185	192	188	191	191	188	190	208	196	202
6	184	181	183	192	189	190	193	189	191	203	194	199
7	185	182	184	192	189	190	192	189	190	198	194	196
8	185	183	184	192	189	190	193	190	191	197	194	195
9	186	184	185	191	187	189	193	190	192	210	193	201
10	188	182	185	192	187	189	204	190	199	208	202	204
11	190	186	189	190	188	189	204	196	199	209	204	207
12	201	190	197	190	186	189	204	198	202	206	199	203
13	200	197	199	187	185	186	217	200	209	201	196	199
14	197	188	193	188	185	186	211	203	206	199	196	197
15	191	187	189	189	186	187	206	202	204	199	195	197
16	190	186	188	188	185	186	205	203	204	199	195	197
17	189	187	188	186	185	186	203	198	201	200	197	199
18	193	188	190	187	185	186	200	197	199	211	196	205
19	191	188	189	187	185	186	199	195	197	216	210	213
20	189	186	188	187	185	186	198	196	197	219	209	215
21	188	186	187	188	185	187	199	195	196	229	214	223
22	188	185	187	188	185	186	199	196	197	225	219	221
23	189	186	187	186	184	185	199	195	196	224	218	222
24	189	186	188	186	183	184	197	193	195	222	217	220
25	195	186	189	186	184	185	195	191	193	220	213	216
26	190	186	188	192	184	187	193	190	192	213	208	211
27	190	187	189	195	188	191	193	188	190	208	204	206
28	188	186	187	197	193	195	191	188	190	205	202	203
29	189	186	187	194	190	191	189	187	188	216	200	204
30	190	187	188	190	187	188	190	187	189	216	209	212
31	189	187	188	---	---	---	190	187	189	217	211	214
MONTH	201	181	188	199	183	188	217	185	195	229	186	205

CUMBERLAND RIVER BASIN

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03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	213	200	206	232	226	229	216	199	206	221	218	220
2	201	198	199	228	219	223	218	199	208	220	218	219
3	200	196	198	224	219	220	214	198	205	220	218	219
4	198	194	196	224	221	223	212	175	189	219	215	217
5	196	192	194	224	221	223	218	207	212	221	217	219
6	193	191	192	222	217	220	215	206	209	220	216	218
7	192	187	190	220	215	218	226	215	220	220	217	218
8	189	186	187	219	212	216	239	216	222	220	210	217
9	188	185	186	214	209	211	233	224	228	221	218	219
10	186	182	184	214	209	212	232	226	228	222	217	219
11	186	182	184	213	198	206	234	200	220	219	216	217
12	188	182	185	223	212	217	224	206	216	218	215	216
13	203	140	182	230	219	225	220	208	211	217	215	216
14	170	141	159	228	224	226	218	207	211	217	215	216
15	192	162	172	230	225	227	227	217	222	218	214	216
16	203	185	195	234	227	230	235	224	229	219	214	216
17	215	202	209	239	231	235	240	234	237	218	215	216
18	228	215	218	249	233	238	239	235	237	219	214	216
19	218	209	213	235	149	189	237	223	230	216	213	214
20	215	205	211	157	131	141	223	219	221	216	212	214
21	221	205	212	175	138	154	222	217	220	216	213	215
22	225	221	223	191	175	184	222	219	221	217	213	215
23	232	224	228	201	189	194	223	220	222	217	214	216
24	235	232	233	219	198	208	230	220	224	214	132	160
25	234	232	233	227	214	222	226	220	223	204	136	173
26	233	230	232	234	221	229	222	217	220	208	191	200
27	234	230	232	235	231	233	222	220	221	---	---	---
28	235	230	233	237	229	235	220	218	220	---	---	---
29	230	226	228	235	229	232	221	218	220	---	---	---
30	---	---	---	235	219	226	221	219	220	222	219	220
31	---	---	---	220	203	210	---	---	---	222	216	218
MONTH	235	140	204	249	131	215	240	175	219	222	132	213

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	220	215	217	217	206	211	218	206	211	193	190	191
2	223	217	220	211	205	208	213	207	210	190	184	187
3	223	218	221	212	206	209	215	207	210	189	186	188
4	222	217	219	210	201	205	211	205	207	189	187	188
5	220	210	216	201	197	198	215	207	211	189	186	187
6	218	211	216	199	196	197	214	210	212	188	185	186
7	221	218	219	201	196	198	215	205	208	188	186	187
8	219	215	218	203	194	196	206	198	201	191	188	189
9	219	214	217	207	192	200	199	193	196	192	189	191
10	216	212	214	208	196	205	195	188	191	195	191	193
11	215	213	214	212	207	209	195	186	191	197	194	196
12	216	210	214	219	210	214	199	195	198	200	195	197
13	216	213	215	225	219	222	201	196	199	198	195	197
14	215	210	212	228	224	226	202	197	198	200	197	198
15	213	212	213	228	226	228	198	193	196	201	196	198
16	214	212	213	228	226	227	198	195	197	199	196	197
17	214	208	211	227	215	222	202	198	200	197	195	196
18	215	211	213	218	216	217	201	199	200	197	196	196
19	215	213	214	222	213	216	199	196	198	198	196	197
20	216	212	214	222	214	216	199	196	198	200	196	198
21	216	211	213	223	216	218	201	199	200	198	195	196
22	216	211	213	224	216	219	202	194	199	197	195	196
23	213	205	210	220	215	218	198	191	194	198	194	196
24	214	210	212	220	216	218	198	193	195	---	---	---
25	214	210	212	219	214	216	199	195	196	202	201	202
26	214	204	210	216	213	215	199	194	196	200	197	198
27	214	211	212	216	213	215	198	195	197	200	198	199
28	213	207	210	216	213	215	197	194	196	200	198	199
29	213	206	209	217	212	214	199	195	197	201	199	200
30	213	208	210	214	210	212	199	192	194	203	199	200
31	---	---	---	217	212	214	195	190	192	---	---	---
MONTH	223	204	214	228	192	213	218	186	200	203	184	195

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.4	7.0	7.5	7.4	7.6	7.5	7.8	7.6	7.6	7.4	7.7	7.4
2	7.4	7.3	7.5	7.4	7.6	7.5	7.8	7.6	7.9	7.5	7.7	7.5
3	7.4	7.3	7.5	7.4	7.6	7.5	7.8	7.6	8.2	7.7	7.8	7.6
4	7.4	7.3	7.4	7.4	7.6	7.5	7.7	7.5	8.2	7.8	7.8	7.6
5	7.4	7.1	7.4	7.3	7.5	7.5	7.5	7.5	8.2	7.7	7.8	7.6
6	7.4	7.2	7.4	7.4	7.5	7.4	7.6	7.5	8.3	7.9	7.9	7.7
7	7.3	7.2	7.4	7.4	7.5	7.4	7.7	7.6	8.4	8.0	7.9	7.7
8	7.5	7.2	7.4	7.4	7.4	7.3	7.7	7.6	8.4	8.0	7.8	7.5
9	7.3	7.2	7.5	7.3	7.5	7.4	7.6	7.5	8.4	8.0	7.8	7.5
10	7.2	7.1	7.6	7.5	7.5	7.4	7.8	7.5	8.4	8.0	7.8	7.6
11	7.2	7.1	7.6	7.5	7.5	7.4	7.8	7.6	8.4	7.9	7.6	7.2
12	7.2	7.1	7.6	7.5	7.5	7.4	7.8	7.6	8.1	7.8	7.4	7.2
13	7.2	7.1	7.5	7.5	7.4	7.4	7.9	7.6	7.9	7.4	7.4	7.3
14	7.3	7.2	7.6	7.5	7.5	7.4	8.1	7.7	7.4	7.3	7.6	7.4
15	7.4	7.3	7.7	7.5	7.5	7.4	8.2	7.7	7.4	7.3	7.8	7.6
16	7.4	7.4	7.6	7.5	7.5	7.4	8.1	7.7	7.5	7.4	8.0	7.6
17	7.4	7.4	7.6	7.5	7.5	7.5	7.7	7.6	7.6	7.5	7.9	7.8
18	7.5	7.4	7.6	7.5	7.5	7.5	7.9	7.7	7.6	7.5	7.9	7.6
19	7.5	7.4	7.7	7.6	7.5	7.4	7.8	7.7	7.5	7.4	7.6	7.3
20	7.5	7.4	7.6	7.4	7.5	7.4	8.0	7.8	7.4	7.4	7.3	7.2
21	7.5	7.4	7.5	7.4	7.5	7.4	8.0	7.9	7.4	7.4	7.3	7.2
22	7.5	7.4	7.6	7.4	7.6	7.5	8.1	7.9	7.4	7.4	7.4	7.3
23	7.5	7.4	7.5	7.4	7.7	7.6	8.1	7.9	7.5	7.4	7.5	7.4
24	7.5	7.4	7.5	7.4	7.7	7.5	8.1	8.0	7.5	7.4	7.6	7.5
25	7.4	7.2	7.4	7.4	7.7	7.5	8.2	8.1	7.6	7.5	7.7	7.6
26	7.6	7.4	7.4	7.4	7.7	7.4	8.2	8.0	7.6	7.5	7.9	7.7
27	7.6	7.5	7.5	7.4	7.9	7.5	8.2	7.9	7.7	7.6	8.1	7.8
28	7.6	7.4	7.6	7.5	7.9	7.6	8.2	7.9	7.7	7.4	8.3	8.0
29	7.5	7.4	7.6	7.5	7.8	7.6	8.2	7.9	7.7	7.5	8.3	8.0
30	7.5	7.4	7.6	7.5	7.8	7.6	7.9	7.7	---	---	8.1	7.8
31	7.5	7.4	---	---	7.9	7.6	7.7	7.5	---	---	8.0	7.4
MONTH	7.6	7.0	7.7	7.3	7.9	7.3	8.2	7.5	8.4	7.3	8.3	7.2
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.6	7.4	7.8	7.8	7.5	7.3	7.7	7.6	7.7	7.6	7.8	7.7
2	7.6	7.4	7.8	7.7	7.4	7.3	7.7	7.6	7.6	7.5	7.8	7.7
3	7.6	7.5	7.8	7.7	7.4	7.2	7.7	7.6	7.6	7.5	7.7	7.6
4	7.6	7.5	7.8	7.7	7.2	7.1	7.6	7.5	7.6	7.5	7.8	7.6
5	7.6	7.5	7.8	7.7	7.1	7.0	7.5	7.4	7.6	7.5	7.7	7.6
6	7.7	7.6	7.8	7.7	7.1	7.0	7.4	7.4	7.6	7.6	7.8	7.6
7	7.8	7.7	7.8	7.7	7.3	7.1	7.5	7.4	7.7	7.5	7.8	7.6
8	7.8	7.6	7.7	7.6	7.3	7.2	7.5	7.3	7.6	7.4	7.7	7.5
9	7.7	7.6	7.8	7.7	7.4	7.2	7.4	7.3	7.5	7.4	7.6	7.5
10	7.7	7.6	7.8	7.7	7.4	7.3	7.6	7.3	7.5	7.4	7.5	7.5
11	7.8	7.6	7.9	7.7	7.4	7.3	7.6	7.5	7.5	7.4	7.7	7.5
12	7.6	7.6	7.9	7.7	7.4	7.3	7.5	7.4	7.5	7.4	7.9	7.4
13	7.6	7.5	7.8	7.7	7.5	7.3	7.4	7.4	7.5	7.4	7.8	7.4
14	7.6	7.5	8.0	7.7	7.3	7.2	7.4	7.3	7.6	7.5	7.8	7.5
15	7.6	7.5	8.0	7.8	7.4	7.3	7.4	7.3	7.6	7.5	7.8	7.7
16	7.7	7.5	8.3	7.7	7.4	7.3	7.5	7.4	7.5	7.4	7.8	7.6
17	7.9	7.7	8.3	7.7	7.4	7.3	7.4	7.2	7.5	7.4	7.8	7.6
18	8.1	7.8	7.9	7.7	7.4	7.3	7.6	7.4	7.4	7.4	7.8	7.7
19	7.9	7.5	7.9	7.7	7.5	7.3	7.5	7.3	7.4	7.4	7.9	7.8
20	7.6	7.5	7.8	7.7	7.5	7.4	7.4	7.3	7.5	7.4	7.8	7.7
21	7.6	7.6	7.8	7.6	7.5	7.4	7.5	7.4	7.5	7.4	7.8	7.7
22	7.6	7.6	7.7	7.6	7.5	7.4	7.6	7.4	7.5	7.4	7.8	7.6
23	7.7	7.6	7.9	7.6	7.5	7.4	7.7	7.5	7.4	7.3	7.8	7.7
24	7.7	7.6	7.7	7.3	7.5	7.4	7.8	7.6	7.3	7.3	7.8	7.4
25	7.8	7.6	7.4	7.3	7.6	7.5	7.8	7.6	7.4	7.3	7.4	7.2
26	7.8	7.7	7.6	7.4	7.6	7.5	7.6	7.5	7.5	7.4	7.5	7.4
27	7.8	7.6	7.8	7.5	7.7	7.5	7.6	7.5	7.5	7.5	7.5	7.4
28	7.7	7.7	7.9	7.5	7.7	7.7	7.6	7.5	7.6	7.5	7.6	7.5
29	7.7	7.6	7.7	7.6	7.7	7.6	7.6	7.5	7.6	7.5	7.6	7.5
30	7.8	7.7	7.6	7.6	7.7	7.5	7.6	7.5	7.6	7.5	7.5	7.5
31	---	---	7.6	7.5	---	---	7.7	7.4	7.8	7.5	---	---
MONTH	8.1	7.4	8.3	7.3	7.7	7.0	7.8	7.2	7.8	7.3	7.9	7.2

CUMBERLAND RIVER BASIN

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03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	14.9	14.3	14.6	15.1	14.6	14.8	10.5	10.1	10.3	9.3	8.7	9.0
2	15.1	14.1	14.6	14.9	13.8	14.5	10.5	9.9	10.2	10.3	9.3	9.7
3	15.2	14.7	15.0	13.8	12.5	13.3	11.3	10.3	10.7	11.7	10.3	10.9
4	15.1	14.8	14.9	12.5	11.9	12.1	12.4	11.3	11.9	11.7	10.6	11.3
5	15.0	14.6	14.8	12.7	11.6	12.2	12.6	12.2	12.4	10.6	8.9	9.9
6	14.8	14.2	14.6	13.5	12.2	12.9	12.6	11.3	12.1	8.9	7.8	8.4
7	14.6	14.0	14.3	13.9	13.3	13.5	11.3	10.7	11.1	7.8	7.3	7.6
8	16.0	14.4	15.1	14.8	13.9	14.4	10.7	10.3	10.5	7.6	7.2	7.4
9	16.0	15.6	15.8	14.6	14.1	14.4	11.4	10.2	10.8	8.3	7.6	8.0
10	16.4	15.7	16.0	14.6	14.1	14.3	11.8	11.4	11.7	8.9	8.3	8.6
11	16.9	16.4	16.7	14.9	14.4	14.6	11.6	11.3	11.5	8.9	8.4	8.7
12	17.3	16.6	17.0	14.5	14.2	14.4	11.4	11.1	11.3	8.8	8.0	8.4
13	17.2	16.7	17.1	14.2	13.8	14.0	11.5	11.3	11.4	9.1	8.4	8.8
14	16.7	15.9	16.2	14.1	13.5	13.8	11.5	11.0	11.4	8.4	7.6	8.1
15	15.9	15.3	15.5	13.8	13.3	13.5	11.0	10.3	10.7	7.9	7.2	7.6
16	15.5	14.7	15.2	13.3	12.2	12.7	10.3	9.4	9.9	7.9	7.6	7.8
17	16.0	15.3	15.7	12.2	11.0	11.6	9.6	9.1	9.4	8.1	7.6	7.8
18	15.9	15.3	15.6	11.3	10.6	11.0	9.7	9.1	9.5	7.8	7.4	7.7
19	15.5	14.5	15.1	12.0	11.0	11.5	10.3	9.6	10.0	7.5	7.2	7.3
20	14.5	13.9	14.2	13.0	11.9	12.5	10.7	10.3	10.5	7.4	6.3	7.0
21	14.2	13.6	14.0	13.8	12.8	13.3	10.3	9.3	9.8	6.3	4.7	5.6
22	14.1	13.5	13.9	14.2	13.5	13.8	9.4	8.3	9.0	4.7	4.2	4.5
23	13.9	13.4	13.7	14.1	13.4	13.8	8.3	7.5	7.8	4.2	3.9	4.0
24	13.5	12.8	13.2	14.0	13.7	13.8	7.5	6.4	6.9	4.7	3.6	4.1
25	13.5	12.4	12.9	13.7	13.1	13.4	6.4	6.0	6.2	3.6	2.9	3.3
26	12.8	12.4	12.5	13.1	12.1	12.7	6.3	5.8	6.0	3.2	2.8	3.0
27	12.5	12.1	12.2	12.1	11.7	12.0	6.5	6.0	6.2	3.5	2.9	3.2
28	13.8	12.5	13.1	12.3	11.8	12.0	6.9	6.3	6.6	3.5	3.0	3.3
29	14.0	13.3	13.6	11.8	11.1	11.5	7.8	6.9	7.5	4.0	3.2	3.5
30	14.5	13.6	14.0	11.1	10.3	10.8	8.3	7.4	7.9	4.5	4.0	4.4
31	14.7	14.1	14.3	---	---	---	9.0	8.1	8.6	4.5	4.3	4.4
MONTH	17.3	12.1	14.7	15.1	10.3	13.1	12.6	5.8	9.7	11.7	2.8	6.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.3	3.9	4.1	12.3	11.6	12.0	13.7	12.8	13.3	11.4	10.8	11.1
2	4.7	3.8	4.3	12.3	11.2	11.7	13.9	13.6	13.8	11.6	10.9	11.3
3	5.0	4.3	4.6	11.3	10.5	11.1	13.9	13.7	13.8	11.4	11.0	11.2
4	5.1	4.7	4.9	11.3	10.2	10.7	13.8	12.3	13.1	11.6	11.3	11.4
5	5.2	4.7	5.0	11.5	10.6	11.0	12.3	11.6	11.9	12.2	11.3	11.8
6	5.5	4.8	5.1	11.7	10.6	11.2	12.5	11.3	12.0	13.2	12.1	12.6
7	6.0	5.2	5.5	11.4	11.0	11.2	13.4	12.3	12.8	13.7	12.5	13.1
8	6.4	5.6	6.0	12.1	11.2	11.7	13.5	11.9	12.7	15.0	12.6	14.1
9	6.7	6.0	6.3	13.6	12.0	12.9	12.2	11.7	12.0	16.3	14.6	15.6
10	7.5	6.4	6.9	13.6	12.9	13.1	12.2	11.9	12.0	16.4	14.6	15.9
11	7.5	7.2	7.4	12.9	11.3	12.3	12.5	12.0	12.3	15.1	14.1	14.6
12	7.5	7.2	7.4	11.3	10.2	10.8	12.5	11.9	12.2	15.4	14.1	14.8
13	8.9	7.3	7.8	10.2	9.6	9.8	12.5	12.0	12.1	15.4	14.2	14.8
14	8.8	8.1	8.4	9.9	9.3	9.6	12.9	12.0	12.4	14.8	13.7	14.3
15	8.4	7.9	8.2	10.8	9.8	10.4	13.5	12.9	13.1	14.5	13.1	14.0
16	8.8	8.1	8.5	11.3	10.7	11.1	14.3	13.1	13.6	15.6	13.9	14.8
17	8.3	7.8	7.9	11.7	10.8	11.2	14.0	13.9	14.0	15.4	14.4	15.2
18	9.9	7.9	8.9	11.5	10.7	11.1	13.9	13.8	13.9	14.8	13.9	14.4
19	9.9	8.7	9.1	11.6	10.8	11.2	13.9	11.2	13.0	15.0	14.3	14.7
20	8.9	8.2	8.5	10.8	10.4	10.6	12.1	10.8	11.5	15.5	15.0	15.2
21	8.2	7.7	8.0	11.1	10.2	10.7	12.1	10.6	11.5	15.5	14.4	15.0
22	8.1	7.8	7.9	11.8	10.6	11.3	10.9	10.2	10.5	15.0	14.2	14.5
23	8.5	7.7	8.1	12.6	11.6	12.1	11.1	9.9	10.6	15.7	14.4	15.0
24	9.6	8.3	9.0	13.6	12.6	13.2	11.6	11.1	11.3	16.7	14.4	15.9
25	10.9	9.6	10.4	14.9	13.6	14.2	11.8	11.1	11.5	16.4	15.2	16.0
26	12.5	10.7	11.7	15.4	14.2	14.8	12.4	11.1	11.7	15.8	15.1	15.5
27	13.1	12.4	12.8	16.0	15.0	15.4	11.9	11.0	11.3	15.8	14.2	14.9
28	12.7	11.8	12.3	15.3	14.4	15.0	11.4	10.6	11.0	14.5	14.0	14.3
29	12.2	11.6	11.9	14.4	13.3	14.1	11.2	10.3	10.6	14.2	13.1	13.4
30	---	---	---	13.6	12.8	13.3	11.0	10.1	10.6	13.1	12.5	12.9
31	---	---	---	13.7	12.7	13.1	---	---	---	14.1	12.9	13.5
MONTH	13.1	3.8	7.8	16.0	9.3	12.0	14.3	9.9	12.2	16.7	10.8	14.1

CUMBERLAND RIVER BASIN

03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	14.2	13.7	14.0	16.0	14.4	15.2	17.1	15.6	16.5	16.1	15.6	15.8
2	14.2	13.8	14.0	16.5	14.9	15.6	16.8	15.2	15.7	15.7	15.1	15.4
3	14.2	13.6	13.9	17.2	16.2	16.6	15.3	15.0	15.1	16.1	15.0	15.5
4	14.1	13.5	13.8	17.4	14.6	16.6	15.4	14.9	15.1	17.7	16.1	16.9
5	14.7	13.0	14.0	14.6	13.2	13.6	15.6	15.3	15.4	17.2	16.1	16.7
6	16.2	14.7	15.5	13.8	13.0	13.5	16.0	15.4	15.7	16.1	15.6	15.8
7	16.4	15.7	16.0	14.2	13.0	13.6	17.0	15.8	16.3	15.7	15.5	15.5
8	16.1	15.0	15.4	14.2	13.2	13.7	16.0	14.1	14.7	16.3	15.6	15.9
9	16.5	15.1	15.8	14.2	13.3	13.8	14.9	13.7	14.3	15.6	15.3	15.5
10	16.9	15.9	16.4	16.3	14.1	15.0	14.9	14.0	14.5	16.1	15.4	15.7
11	16.8	15.8	16.3	17.4	16.1	16.7	15.9	14.3	15.0	17.1	16.0	16.5
12	17.1	16.5	16.8	16.1	13.9	14.4	14.7	14.0	14.4	17.1	16.3	16.6
13	18.1	16.8	17.6	14.3	13.4	13.9	15.2	14.0	14.6	16.5	15.9	16.1
14	17.3	14.6	15.4	14.8	13.7	14.3	16.7	15.1	15.9	16.7	15.7	16.1
15	14.7	13.9	14.3	15.9	14.7	15.3	16.5	15.6	16.0	16.9	16.1	16.4
16	14.2	14.0	14.1	16.5	15.2	15.9	15.6	14.7	15.1	16.4	15.5	16.0
17	14.4	14.2	14.3	16.5	13.6	15.7	15.4	14.1	14.6	15.9	15.0	15.5
18	14.4	14.0	14.2	17.3	15.1	16.6	14.6	14.0	14.3	16.1	15.2	15.6
19	15.2	13.9	14.3	15.1	13.4	13.9	14.6	13.6	14.1	16.5	16.0	16.2
20	16.2	15.0	15.7	14.3	13.5	13.9	14.8	14.2	14.5	16.4	15.9	16.2
21	16.0	14.6	15.2	14.5	13.4	13.9	16.2	14.7	15.4	16.9	16.3	16.6
22	15.1	14.7	14.9	16.4	14.5	15.3	16.3	15.4	15.8	16.6	16.3	16.5
23	16.4	15.0	15.6	16.3	15.6	15.9	15.6	15.1	15.3	16.5	16.1	16.3
24	15.9	15.1	15.5	16.4	15.5	15.9	15.3	14.6	14.9	16.5	---	---
25	16.0	15.0	15.6	16.3	14.5	15.2	14.9	14.2	14.6	16.3	---	---
26	17.0	14.9	15.5	14.6	13.7	14.2	15.0	14.7	14.9	16.2	15.8	16.0
27	17.8	16.7	17.3	14.8	13.8	14.3	15.4	15.0	15.2	15.8	15.3	15.5
28	16.9	14.0	15.9	14.8	14.1	14.5	16.8	15.3	16.0	15.8	15.2	15.5
29	14.7	13.7	14.3	14.5	13.5	13.8	17.0	16.0	16.4	16.3	15.5	15.9
30	14.9	14.0	14.5	13.9	13.3	13.6	16.3	16.0	16.1	16.4	15.8	16.1
31	---	---	---	15.7	13.9	14.7	16.3	15.8	16.0	---	---	---
MONTH	18.1	13.0	15.2	17.4	13.0	14.8	17.1	13.6	15.2	17.7	15.0	16.0

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	8.2	7.8	8.0	9.2	8.6	9.0	11.1	10.6	10.9	10.6	10.0	10.3
2	8.8	8.1	8.3	9.0	8.8	8.9	11.3	10.8	11.0	10.7	10.1	10.3
3	8.8	8.3	8.5	9.2	8.8	9.0	11.2	10.8	11.0	10.7	10.0	10.3
4	8.5	8.2	8.4	9.2	9.0	9.1	10.8	10.6	10.7	10.1	9.4	9.5
5	---	---	---	9.2	8.9	9.1	10.6	10.2	10.5	9.8	9.4	9.5
6	---	---	---	9.4	9.0	9.2	10.8	10.2	10.4	10.6	9.8	10.2
7	---	---	---	9.3	8.9	9.1	11.1	10.5	10.8	11.3	10.6	11.0
8	---	---	---	9.2	8.9	9.1	11.3	10.6	11.0	11.4	11.1	11.2
9	---	---	---	10.1	9.0	9.5	11.4	10.9	11.2	11.2	11.0	11.1
10	---	---	---	10.2	9.4	9.8	11.1	10.5	10.8	11.5	10.9	11.1
11	---	---	---	9.9	9.5	9.7	10.8	10.4	10.6	11.5	10.9	11.2
12	---	---	---	9.8	9.4	9.6	10.7	10.4	10.5	11.8	11.1	11.4
13	---	---	---	9.7	9.4	9.5	10.5	10.0	10.2	12.0	11.2	11.6
14	---	---	---	9.8	9.3	9.5	10.1	9.9	10.0	12.5	11.6	12.0
15	8.7	8.1	8.5	9.7	9.2	9.4	10.0	9.7	9.9	12.8	11.9	12.3
16	8.8	8.4	8.6	9.6	8.9	9.2	10.5	10.0	10.2	12.7	11.9	12.2
17	8.6	7.9	8.2	9.0	8.7	8.9	10.5	10.2	10.3	12.5	11.7	11.9
18	8.4	7.7	8.2	9.0	8.7	8.8	10.6	10.1	10.3	12.8	12.0	12.4
19	8.6	8.2	8.4	---	---	---	10.9	10.4	10.6	12.6	11.9	12.4
20	8.8	8.4	8.6	---	---	---	10.9	10.5	10.7	13.0	12.4	12.7
21	8.9	8.3	8.6	---	---	---	11.3	10.7	10.9	13.3	12.6	13.0
22	8.8	8.6	8.7	9.2	8.8	9.0	11.3	10.4	10.9	13.8	13.0	13.6
23	8.8	8.6	8.7	9.0	8.4	8.6	---	---	---	13.9	13.5	13.7
24	8.8	8.5	8.7	8.7	8.5	8.6	---	---	---	14.1	13.9	14.0
25	9.0	7.8	8.6	8.9	8.6	8.7	---	---	---	14.4	13.9	14.3
26	9.9	9.0	9.5	9.4	8.8	9.1	---	---	---	14.6	14.0	14.3
27	10.1	9.6	9.8	10.0	9.3	9.7	---	---	---	14.5	14.0	14.2
28	10.0	9.1	9.4	10.3	9.8	10.0	11.8	10.6	11.0	14.9	14.2	14.7
29	9.4	9.1	9.3	10.5	9.9	10.2	11.0	10.2	10.6	15.3	14.6	15.0
30	9.4	9.0	9.2	10.9	10.3	10.6	10.8	10.2	10.5	14.6	14.0	14.3
31	9.3	9.0	9.1	---	---	---	10.9	10.2	10.5	14.1	13.5	13.8
MONTH	10.1	7.7	8.7	10.9	8.4	9.3	11.8	9.7	10.6	15.3	9.4	12.2

CUMBERLAND RIVER BASIN

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03417500 CUMBERLAND RIVER AT CELINA, TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	10.2	9.6	9.9	---	---	---	11.1	10.9	11.0
2	---	---	---	10.3	9.5	10.0	---	---	---	11.0	10.9	10.9
3	---	---	---	11.4	10.0	10.6	---	---	---	11.0	10.9	11.0
4	---	---	---	11.1	10.1	10.6	---	---	---	11.1	10.9	11.0
5	---	---	---	12.8	11.1	11.8	11.6	11.1	11.4	11.1	10.9	11.0
6	---	---	---	12.4	11.2	11.7	11.2	11.1	11.2	11.1	10.9	11.0
7	---	---	---	12.1	11.3	11.7	11.2	11.0	11.1	11.1	10.9	11.0
8	---	---	---	11.7	10.7	11.4	---	---	---	11.0	10.7	10.8
9	---	---	---	11.4	10.6	11.0	---	---	---	11.3	10.7	11.1
10	---	---	---	11.1	10.2	10.6	---	---	---	11.2	10.4	10.7
11	---	---	---	10.4	9.3	9.7	---	---	---	11.6	10.9	11.2
12	---	---	---	10.2	9.5	9.7	---	---	---	11.6	11.0	11.3
13	---	---	---	10.9	10.2	10.5	---	---	---	11.4	10.9	11.1
14	---	---	---	11.8	10.4	11.2	---	---	---	11.9	10.9	11.3
15	---	---	---	12.6	10.1	11.3	---	---	---	12.4	11.3	11.7
16	9.4	9.1	9.2	11.6	10.6	11.1	---	---	---	12.8	11.2	12.2
17	10.3	9.4	9.8	11.3	10.7	11.0	---	---	---	12.6	11.4	11.8
18	10.3	10.0	10.2	12.1	10.0	11.2	---	---	---	12.1	11.1	11.6
19	10.8	9.9	10.4	11.0	10.1	10.5	10.6	9.8	10.2	12.0	11.3	11.7
20	10.4	9.4	10.1	11.1	10.2	10.9	10.7	10.3	10.4	11.8	11.2	11.5
21	10.4	10.1	10.3	10.3	9.4	9.8	10.4	10.2	10.3	11.4	10.7	11.0
22	10.3	9.5	9.8	9.9	9.4	9.6	10.8	10.3	10.6	11.6	10.8	11.2
23	10.2	9.6	10.0	9.8	9.4	9.6	11.0	10.7	10.9	12.0	10.6	11.5
24	10.6	10.2	10.4	9.9	9.5	9.7	10.9	10.4	10.6	11.1	10.1	10.6
25	10.7	10.2	10.5	10.4	9.6	10.0	10.7	10.4	10.5	11.0	10.3	10.6
26	10.5	10.0	10.2	10.3	9.3	9.9	10.7	10.5	10.6	---	---	---
27	10.6	9.7	10.1	10.2	9.4	9.9	10.8	10.6	10.7	---	---	---
28	10.4	9.2	9.8	10.7	9.8	10.2	10.8	10.7	10.7	---	---	---
29	10.3	9.5	9.9	11.0	10.0	10.5	10.8	10.7	10.8	---	---	---
30	---	---	---	11.0	10.0	10.7	11.1	10.8	11.0	10.9	9.6	10.3
31	---	---	---	---	---	---	---	---	---	10.0	9.6	9.8
MONTH	10.8	9.1	10.1	12.8	9.3	10.5	11.6	9.8	10.7	12.8	9.6	11.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.9	9.6	9.7	10.2	9.9	10.0	9.4	8.8	9.1	8.8	8.2	8.4
2	9.7	9.5	9.6	10.4	9.8	10.0	9.7	9.0	9.4	---	---	---
3	9.8	9.6	9.7	10.4	9.9	10.2	9.9	9.4	9.7	---	---	---
4	10.0	9.7	9.9	10.3	9.8	10.0	10.2	9.7	9.9	---	---	---
5	10.6	9.3	10.0	9.8	9.5	9.6	10.1	9.7	9.9	---	---	---
6	11.2	9.4	10.3	9.7	9.4	9.5	10.3	9.9	10.1	8.4	7.9	8.2
7	11.2	9.8	10.3	9.9	9.0	9.4	10.7	10.1	10.4	8.4	7.9	8.1
8	10.7	10.3	10.5	---	---	---	10.4	9.9	10.1	---	---	---
9	10.7	10.1	10.5	---	---	---	10.4	9.8	10.0	---	---	---
10	10.7	10.2	10.4	---	---	---	10.5	9.9	10.1	---	---	---
11	10.5	10.1	10.2	10.6	10.2	10.3	10.1	9.1	9.7	---	---	---
12	10.7	10.0	10.4	10.2	9.8	9.9	10.3	9.8	10.0	8.5	8.0	8.1
13	10.9	9.8	10.2	10.0	9.7	9.8	10.3	9.6	10.0	8.3	7.9	8.1
14	10.3	9.8	10.0	10.0	9.7	9.9	11.0	10.3	10.7	8.2	7.7	8.0
15	10.0	9.8	9.9	10.3	9.3	9.9	11.0	10.3	10.6	8.4	7.8	8.1
16	9.9	9.8	9.8	---	---	---	10.4	9.7	10.0	8.4	7.8	8.1
17	10.0	9.6	9.8	---	---	---	10.4	9.1	9.6	8.8	8.0	8.4
18	9.9	9.6	9.7	10.6	9.3	10.0	9.9	9.1	9.4	8.8	8.0	8.4
19	9.8	9.5	9.6	10.6	9.8	9.9	9.9	9.4	9.6	9.1	8.5	8.8
20	9.9	9.5	9.7	10.0	9.6	9.7	9.9	9.4	9.7	8.6	7.6	8.0
21	---	---	---	9.9	9.4	9.6	10.3	9.8	10.0	7.8	7.4	7.6
22	---	---	---	10.5	9.8	10.1	10.0	9.1	9.5	7.8	6.7	7.3
23	---	---	---	10.5	9.9	10.2	9.1	8.3	8.6	8.0	6.6	7.2
24	---	---	---	10.7	10.0	10.3	8.3	7.5	7.9	---	---	---
25	---	---	---	10.7	10.1	10.3	---	---	---	---	---	---
26	---	---	---	10.1	9.5	9.7	---	---	---	7.8	7.3	7.5
27	---	---	---	9.9	9.4	9.6	---	---	---	8.1	7.6	7.8
28	9.7	9.2	9.4	9.9	9.0	9.5	---	---	---	8.4	7.8	8.0
29	9.6	9.3	9.5	9.8	8.6	9.1	---	---	---	8.4	7.8	8.1
30	10.1	9.4	9.7	---	---	---	---	---	---	8.4	7.9	8.1
31	---	---	---	9.6	9.0	9.2	---	---	---	---	---	---
MONTH	11.2	9.2	9.9	10.7	8.6	9.8	11.0	7.5	9.8	9.1	6.6	8.0

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°17'12", long 85°56'27", Smith County, Hydrologic Unit 05130108, on right bank in powerhouse at Cordell Hull Dam, 2.7 mi north of Carthage, and at mile 313.5.

DRAINAGE AREA.--8,095 mi².

PERIOD OF RECORD.--October 1980 to September 1997, October 1999 to September 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1997, October 1999 to September 2000.

pH: October 1990 to September 1997, October 1999 to September 2000.

WATER TEMPERATURE: October 1980 to September 1997, October 1999 to September 2000.

DISSOLVED OXYGEN: October 1980 to September 1997, October 1999 to September 2000.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cordell Hull Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 290 microsiemens, Mar. 27, 1990; minimum, 140 microsiemens, Sept. 3, 1984.

pH: Maximum, 8.5 units, Mar. 9, 10, May 14, 16, 1992, June 16, 17, 1993; minimum, 6.6 units, May 31, 1994.

WATER TEMPERATURE: Maximum, 23.7°C, July 13, 1995 July 31, 1997; minimum, 2.0°C, Jan. 12, 15-21, 1981.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Mar. 4, 1983; minimum, 3.7 mg/L, Aug. 5, 1988.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 230 microsiemens, Apr. 27; minimum, 165 microsiemens, Apr. 4, 5.

pH: Maximum, 8.6 units, Apr. 20, May 7, 11, 12; minimum, 7.1 units, Feb. 26, 28.

WATER TEMPERATURE: Maximum, 23.5°C, July 12, 13; minimum, 3.6°C, Feb. 3.

DISSOLVED OXYGEN: Maximum, 14.3 mg/L, Feb. 11; minimum, 5.6 mg/L, July 20.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	192	190	191	195	193	194	201	195	197	214	213	213
2	196	190	191	195	193	193	197	194	196	215	213	214
3	194	191	192	197	193	194	197	195	196	214	209	213
4	196	191	192	196	193	194	197	195	195	214	211	212
5	194	191	192	196	191	193	197	195	196	212	208	210
6	194	191	192	194	191	192	197	195	196	211	208	209
7	193	191	191	194	191	192	197	195	196	209	206	208
8	192	191	192	193	191	192	197	196	196	208	204	205
9	195	190	192	194	191	192	198	195	196	205	202	203
10	193	190	192	195	192	193	198	195	196	203	201	202
11	194	190	191	200	192	194	198	195	196	202	200	201
12	194	190	191	201	192	194	199	197	198	202	198	200
13	193	191	192	196	192	193	201	197	198	200	198	199
14	193	190	192	196	193	194	201	196	197	200	198	199
15	193	190	191	196	193	194	201	195	196	201	198	200
16	195	191	192	196	193	194	198	194	195	201	200	200
17	196	191	194	199	193	195	198	195	196	202	198	200
18	196	192	194	196	193	194	198	195	195	204	200	201
19	196	193	194	197	194	195	198	195	196	203	202	202
20	196	192	193	197	194	195	198	196	197	204	202	203
21	195	193	194	199	195	196	200	197	198	206	203	204
22	196	192	194	200	195	196	199	198	199	206	202	204
23	196	193	194	198	194	195	200	198	199	205	203	204
24	198	193	195	199	194	195	200	199	199	205	203	204
25	196	193	194	199	194	195	201	199	200	206	203	204
26	198	195	196	197	194	194	202	200	201	206	203	204
27	198	191	193	197	193	194	205	201	203	207	204	205
28	193	191	192	197	193	194	208	203	205	207	204	206
29	194	193	193	199	193	195	210	206	208	207	204	205
30	195	193	194	197	194	196	212	208	210	212	205	206
31	197	193	194	---	---	---	214	211	212	216	208	212
MONTH	198	190	193	201	191	194	214	194	199	216	198	205

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SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	217	206	212	199	194	197	175	172	174	226	217	220
2	215	211	212	202	196	198	176	173	174	226	218	220
3	215	212	213	200	197	198	175	171	173	223	220	221
4	215	212	214	201	198	199	172	165	168	221	219	220
5	216	213	214	202	199	200	168	165	167	223	214	216
6	216	214	215	205	200	202	173	168	170	216	214	215
7	216	213	214	204	200	203	174	171	172	217	214	215
8	215	213	214	209	203	205	183	172	177	217	214	215
9	218	214	216	210	204	207	191	183	188	217	214	215
10	219	217	218	214	208	211	194	190	192	218	214	215
11	220	219	219	214	209	212	199	193	194	218	214	216
12	220	218	219	213	210	211	208	199	206	218	215	216
13	221	218	219	211	209	210	212	207	209	218	215	216
14	218	215	217	212	210	210	216	209	211	219	215	217
15	219	213	215	212	210	210	217	211	214	220	216	218
16	217	212	213	211	209	210	220	213	216	221	217	218
17	216	210	213	212	209	210	222	215	217	222	217	219
18	212	208	210	211	210	210	220	214	216	221	218	219
19	210	209	210	212	207	209	218	214	215	221	218	220
20	213	208	209	222	212	219	220	211	215	223	218	220
21	210	207	208	222	202	212	223	214	216	222	217	219
22	209	201	204	202	189	195	219	215	216	221	218	219
23	203	198	201	194	184	187	220	213	216	221	217	218
24	200	197	198	187	180	184	219	214	216	221	217	218
25	199	195	197	185	178	182	222	214	216	217	216	217
26	198	195	197	180	174	177	223	215	218	220	217	218
27	197	194	196	178	169	173	230	221	223	218	216	217
28	203	195	198	173	169	170	228	220	222	217	211	215
29	200	194	197	173	169	171	226	219	221	211	193	201
30	---	---	---	174	172	173	226	218	221	193	188	190
31	---	---	---	174	172	173	---	---	---	198	189	194
MONTH	221	194	210	222	169	198	230	165	202	226	188	215
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	207	196	200	220	214	216	210	206	207	215	203	207
2	211	207	209	222	216	219	207	204	205	219	202	207
3	214	208	210	221	216	217	206	201	204	212	203	207
4	217	214	215	220	216	217	209	200	203	212	203	208
5	221	215	217	221	216	218	205	199	201	215	202	209
6	222	214	217	220	217	218	206	198	201	218	200	206
7	220	215	217	218	216	217	207	197	201	209	200	204
8	221	215	217	220	217	218	203	197	198	209	205	206
9	223	214	218	221	216	218	198	195	196	207	206	206
10	219	215	217	221	218	219	205	195	197	207	205	206
11	223	216	218	223	217	219	199	193	196	209	205	207
12	223	214	218	220	216	217	203	198	201	209	202	206
13	223	214	218	218	215	216	207	202	203	211	206	207
14	222	215	217	218	215	216	209	205	207	212	206	209
15	220	217	218	219	214	217	217	208	211	212	207	209
16	219	215	216	220	215	217	220	209	214	214	208	209
17	219	215	216	219	213	215	216	210	212	214	208	210
18	223	216	218	216	214	215	212	209	210	212	208	209
19	222	216	219	217	213	214	213	209	210	213	209	210
20	222	216	219	220	212	214	214	209	212	213	210	211
21	223	216	219	219	213	215	214	208	211	213	209	210
22	221	217	218	218	213	216	215	208	211	213	210	211
23	220	218	219	222	212	216	212	208	209	214	210	212
24	220	218	219	219	213	216	213	207	209	214	210	211
25	221	218	219	217	214	215	220	207	211	214	210	211
26	222	218	220	218	211	213	218	206	211	213	211	212
27	222	218	220	215	211	212	217	205	209	213	211	212
28	223	216	218	213	209	211	218	206	209	215	211	211
29	220	214	216	215	208	210	217	205	209	215	210	211
30	217	212	215	212	207	209	212	205	207	214	211	212
31	---	---	---	214	207	209	215	203	207	---	---	---
MONTH	223	196	217	223	207	215	220	193	206	219	200	209

CUMBERLAND RIVER BASIN

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PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.8	7.5	7.9	7.7	7.9	7.8	7.8	7.6	7.8	7.6	7.4	7.3
2	7.8	7.5	7.9	7.6	8.1	7.8	7.8	7.5	7.9	7.7	7.4	7.3
3	7.9	7.5	7.8	7.6	8.0	7.9	7.7	7.5	8.0	7.8	7.4	7.3
4	7.6	7.5	7.9	7.7	8.1	7.9	7.6	7.5	8.1	7.9	7.5	7.3
5	7.6	7.5	7.9	7.8	8.0	7.9	7.7	7.4	8.1	7.9	7.3	7.2
6	7.6	7.4	7.9	7.7	8.0	7.9	7.7	7.6	8.2	8.1	7.6	7.2
7	7.6	7.4	7.9	7.7	7.9	7.8	7.7	7.7	8.3	8.0	7.7	7.3
8	7.8	7.5	7.9	7.7	7.9	7.8	7.7	7.6	8.2	8.0	7.9	7.5
9	7.7	7.4	7.9	7.8	8.0	7.8	7.6	7.5	8.1	7.9	7.9	7.5
10	7.5	7.4	7.9	7.8	7.9	7.8	7.6	7.6	8.0	7.9	7.7	7.5
11	7.5	7.3	7.9	7.7	7.8	7.8	7.7	7.6	8.2	7.7	7.8	7.4
12	7.7	7.3	7.9	7.7	7.8	7.7	7.7	7.6	8.2	8.1	7.8	7.4
13	7.6	7.5	7.9	7.8	7.9	7.7	7.7	7.6	8.2	8.0	8.0	7.6
14	7.7	7.5	7.9	7.8	7.9	7.8	7.8	7.6	8.1	8.0	8.2	7.9
15	7.7	7.4	7.8	7.8	7.9	7.8	7.8	7.6	8.0	8.0	8.2	7.7
16	7.8	7.5	7.9	7.7	7.9	7.8	7.6	7.5	8.1	7.9	8.1	7.7
17	7.6	7.5	7.9	7.8	7.9	7.7	7.7	7.5	7.9	7.9	8.1	7.9
18	7.6	7.4	8.0	7.8	7.8	7.7	7.6	7.5	8.0	7.9	8.2	7.8
19	7.6	7.4	8.0	7.8	7.8	7.7	7.6	7.5	7.9	7.8	8.1	7.8
20	7.7	7.5	7.9	7.7	7.8	7.7	7.6	7.5	7.8	7.7	7.8	7.6
21	7.7	7.5	8.0	7.7	7.8	7.6	7.6	7.5	7.7	7.6	7.6	7.5
22	7.7	7.6	7.9	7.8	7.7	7.6	7.6	7.3	7.6	7.5	7.7	7.5
23	7.6	7.5	8.0	7.8	7.7	7.7	7.5	7.3	7.5	7.3	7.7	7.6
24	7.7	7.5	7.9	7.7	7.8	7.7	7.7	7.5	7.5	7.2	7.6	7.5
25	7.7	7.5	7.8	7.7	7.8	7.7	7.6	7.5	7.5	7.2	7.6	7.4
26	7.7	7.5	7.8	7.7	7.8	7.7	7.7	7.6	7.4	7.1	7.6	7.5
27	7.8	7.6	7.8	7.8	7.8	7.7	7.7	7.6	7.3	7.2	7.6	7.5
28	7.8	7.7	7.8	7.7	7.8	7.6	7.8	7.6	7.4	7.1	7.6	7.4
29	7.8	7.6	7.9	7.8	7.8	7.6	7.6	7.5	7.4	7.3	7.7	7.5
30	7.8	7.7	7.9	7.8	7.8	7.6	7.6	7.4	---	---	7.8	7.6
31	7.8	7.6	---	---	7.8	7.6	7.7	7.6	---	---	8.1	7.7
MONTH	7.9	7.3	8.0	7.6	8.1	7.6	7.8	7.3	8.3	7.1	8.2	7.2
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.9	7.7	8.3	7.7	7.6	7.5	8.0	7.7	8.1	7.4	8.0	7.4
2	8.4	7.7	8.2	7.7	7.6	7.5	8.1	7.7	8.3	7.5	7.9	7.5
3	8.1	7.7	8.4	7.9	7.8	7.6	8.0	7.7	8.4	7.6	7.9	7.5
4	7.9	7.7	---	---	7.7	7.6	8.0	7.7	8.2	7.4	7.8	7.4
5	7.8	7.7	8.2	7.9	7.8	7.3	8.0	7.6	8.2	7.5	7.7	7.3
6	8.0	7.7	8.4	7.9	7.7	7.4	8.1	7.7	8.1	7.6	7.9	7.3
7	7.9	7.7	8.6	8.0	7.9	7.5	8.3	7.7	8.3	7.5	8.2	7.7
8	7.9	7.8	8.4	7.9	8.1	7.6	8.4	7.8	8.2	7.6	7.9	7.6
9	7.9	7.8	8.4	7.9	8.2	7.5	8.2	7.7	8.2	7.6	8.0	7.7
10	8.2	7.7	8.1	7.8	8.1	7.6	8.0	7.5	8.0	7.6	8.0	7.6
11	8.1	7.8	8.6	7.6	7.9	7.6	8.0	7.5	8.1	7.7	7.9	7.5
12	8.1	7.9	8.6	7.8	7.8	7.5	8.3	7.5	8.0	7.6	8.1	7.5
13	8.1	8.0	8.2	7.7	8.0	7.4	8.3	7.6	8.0	7.6	8.0	7.5
14	8.0	7.9	8.3	7.6	8.2	7.5	8.0	7.5	8.0	7.5	8.0	7.5
15	8.1	7.7	8.0	7.6	8.1	7.6	7.8	7.4	7.9	7.2	7.8	7.5
16	8.0	7.7	8.0	7.5	8.0	7.6	8.0	7.4	8.3	7.2	7.8	7.5
17	7.9	7.7	8.1	7.5	8.1	7.6	8.3	7.4	8.2	7.9	7.9	7.4
18	7.9	7.7	8.2	7.7	7.9	7.5	8.4	7.6	8.3	7.9	7.8	7.4
19	8.4	7.7	8.0	7.6	7.9	7.7	7.9	7.5	8.3	7.8	7.9	7.4
20	8.6	8.0	7.7	7.4	8.0	7.7	8.4	7.4	8.1	7.8	8.1	7.4
21	8.3	8.0	7.6	7.4	8.2	7.7	8.2	7.5	8.1	7.7	7.8	7.5
22	8.1	7.9	7.8	7.5	8.1	7.7	8.2	7.3	8.3	7.8	7.9	7.5
23	8.3	7.7	7.7	7.6	8.4	7.6	7.8	7.3	8.1	7.7	7.7	7.4
24	8.2	7.9	8.1	7.5	8.3	7.8	7.6	7.2	8.0	7.6	7.7	7.4
25	8.1	7.7	8.0	7.8	8.0	7.8	8.2	7.4	8.1	7.6	7.5	7.4
26	8.0	7.8	7.9	7.8	8.1	7.8	8.3	7.4	8.0	7.6	7.5	7.4
27	8.1	7.7	7.9	7.8	8.4	7.8	8.2	7.4	8.1	7.5	7.5	7.4
28	8.1	7.8	7.9	7.8	7.9	7.7	7.9	7.4	7.9	7.5	7.7	7.4
29	8.3	7.7	7.8	7.6	7.9	7.7	8.3	7.5	7.8	7.4	7.7	7.4
30	8.4	7.8	7.6	7.5	8.4	7.7	8.0	7.5	8.1	7.5	7.7	7.4
31	---	---	7.7	7.5	---	---	8.0	7.4	7.9	7.4	---	---
MONTH	8.6	7.7	8.6	7.4	8.4	7.3	8.4	7.2	8.4	7.2	8.2	7.3

CUMBERLAND RIVER BASIN

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.3	17.4	17.8	16.0	15.4	15.7	11.8	11.2	11.5	7.7	7.1	7.3
2	18.4	17.3	17.8	15.9	14.7	15.3	11.4	10.9	11.2	7.8	7.1	7.3
3	18.5	17.5	17.9	15.0	14.4	14.8	11.2	10.9	11.1	8.4	7.4	7.9
4	18.0	17.2	17.7	14.7	14.3	14.6	11.6	11.0	11.2	8.2	7.9	8.0
5	17.7	17.1	17.4	14.5	14.1	14.4	11.4	11.1	11.3	7.9	7.5	7.7
6	17.7	17.1	17.4	14.3	14.0	14.2	11.3	10.8	11.1	7.9	7.3	7.7
7	17.7	17.2	17.5	14.1	13.9	14.1	11.0	10.6	10.8	8.0	7.5	7.8
8	18.2	17.4	17.8	14.3	13.9	14.0	10.8	10.4	10.7	7.6	7.4	7.5
9	18.2	17.9	18.0	14.1	13.7	13.9	11.2	10.6	10.8	7.5	7.3	7.4
10	18.1	17.5	17.8	14.4	13.7	13.9	11.0	10.6	10.9	7.5	7.1	7.3
11	17.9	17.4	17.6	14.4	13.9	14.1	10.7	10.4	10.6	7.5	7.0	7.3
12	18.4	17.4	17.7	14.5	13.7	14.1	10.5	10.3	10.4	7.8	7.2	7.5
13	17.8	17.4	17.6	14.2	13.9	14.1	10.4	10.3	10.4	8.0	7.5	7.8
14	18.2	17.2	17.5	14.4	13.8	14.1	10.3	10.1	10.2	8.0	7.4	7.8
15	17.9	17.2	17.5	14.1	13.5	13.9	10.2	9.7	10.0	8.0	7.5	7.8
16	18.5	17.3	17.7	14.0	13.4	13.8	9.8	9.4	9.7	8.0	7.7	7.9
17	17.7	17.0	17.5	13.9	13.3	13.7	9.8	9.4	9.7	8.1	7.7	8.0
18	17.5	16.7	17.2	13.8	13.2	13.6	9.8	9.4	9.7	8.1	7.8	8.0
19	17.5	16.9	17.2	13.7	13.1	13.4	9.8	9.7	9.8	8.1	7.8	8.0
20	17.4	16.8	17.1	13.6	13.4	13.5	9.9	9.4	9.7	7.9	7.3	7.7
21	17.2	16.7	17.0	13.8	13.4	13.6	9.6	9.2	9.4	7.7	7.1	7.4
22	17.5	16.5	17.0	13.6	13.4	13.5	9.2	8.8	9.0	7.3	7.0	7.1
23	16.8	16.2	16.6	14.3	13.4	13.7	9.0	8.5	8.8	7.0	6.7	6.9
24	16.7	15.9	16.3	13.8	13.3	13.6	8.5	7.9	8.3	6.7	6.1	6.5
25	16.4	15.7	16.0	13.4	13.2	13.3	8.3	7.7	8.0	6.4	5.8	6.1
26	16.5	15.5	15.8	13.2	13.1	13.2	8.0	7.4	7.7	6.0	5.3	5.7
27	16.2	15.4	15.8	13.1	12.9	13.1	7.6	7.1	7.4	5.6	5.0	5.3
28	16.1	15.4	15.7	13.1	12.7	12.9	7.3	6.9	7.1	5.1	4.8	5.0
29	16.4	15.4	15.7	12.7	12.0	12.5	7.4	6.9	7.2	5.0	4.6	4.8
30	15.6	15.2	15.4	12.1	11.7	12.0	7.5	6.9	7.1	4.7	4.5	4.6
31	15.8	15.3	15.5	---	---	---	7.5	7.0	7.2	4.6	4.3	4.5
MONTH	18.5	15.2	17.0	16.0	11.7	13.8	11.8	6.9	9.6	8.4	4.3	7.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.4	4.0	4.3	11.8	10.6	11.1	13.9	12.9	13.2	15.2	14.4	14.8
2	4.6	3.9	4.2	11.4	10.9	11.1	14.4	13.1	13.5	15.0	14.7	14.8
3	4.8	3.6	4.2	11.6	11.0	11.2	14.1	13.3	13.9	15.0	14.7	---
4	4.3	4.1	4.3	11.6	11.0	11.3	14.0	13.5	13.8	14.9	14.7	---
5	4.6	4.0	4.3	11.8	10.9	11.2	13.8	13.4	13.6	15.5	14.6	15.0
6	4.6	3.8	4.3	12.1	10.9	11.5	15.3	13.6	14.1	16.0	14.6	15.3
7	4.8	4.0	4.4	12.0	11.3	11.6	14.7	13.7	14.1	17.0	15.1	15.8
8	5.0	4.1	4.5	13.9	11.4	12.1	14.7	13.9	14.4	16.9	15.0	16.0
9	5.6	4.3	4.8	13.7	11.6	12.3	14.3	13.7	13.9	17.1	15.1	16.1
10	5.7	4.6	5.0	12.9	11.6	12.3	14.9	13.5	14.1	16.5	15.2	15.9
11	5.3	5.0	5.2	12.6	11.7	12.2	14.5	14.1	14.3	18.4	15.7	16.5
12	5.4	5.1	5.3	12.3	11.4	11.9	14.5	14.0	14.3	18.9	15.8	17.4
13	5.8	5.2	5.3	12.8	11.8	12.3	14.2	14.0	14.1	17.8	16.3	17.1
14	6.0	5.4	5.7	13.7	12.3	12.8	14.5	14.1	14.2	17.9	16.2	17.0
15	6.3	5.9	6.0	14.2	12.4	13.0	14.5	14.2	14.3	17.6	16.7	17.0
16	6.9	6.2	6.5	13.2	12.6	12.8	14.4	14.1	14.3	17.8	16.6	17.2
17	6.8	6.3	6.6	13.9	12.9	13.3	14.3	13.7	14.1	19.3	17.1	17.7
18	7.7	6.7	7.1	14.0	12.7	13.3	14.0	13.6	13.8	19.5	17.5	18.4
19	7.9	7.4	7.7	13.5	13.0	13.2	15.0	13.8	14.3	18.9	17.6	18.2
20	8.3	7.9	8.1	13.1	12.4	12.9	15.6	14.3	14.8	18.3	17.8	18.0
21	8.9	8.1	8.5	12.4	11.9	12.0	15.4	14.4	14.8	18.2	17.7	18.0
22	9.0	8.5	8.7	12.4	11.8	12.1	14.7	14.2	14.5	18.7	17.7	17.9
23	9.6	8.6	9.0	12.6	12.1	12.3	15.2	14.4	14.8	18.3	17.6	17.9
24	10.6	8.9	9.4	13.4	12.0	12.5	15.1	14.9	15.0	20.0	17.6	19.0
25	11.5	9.3	10.1	13.0	12.4	12.7	15.1	14.8	14.9	20.0	19.3	19.7
26	11.1	9.8	10.3	13.1	12.2	12.6	15.4	14.8	15.1	19.9	19.5	19.7
27	11.3	10.4	10.8	13.3	12.0	12.7	15.3	15.0	15.2	20.0	19.5	19.8
28	10.8	10.3	10.6	12.7	11.8	12.2	15.1	14.6	14.9	20.0	19.2	19.7
29	11.6	10.3	10.8	12.6	11.9	12.3	14.8	14.3	14.6	19.3	19.2	19.3
30	---	---	---	13.5	12.4	12.9	14.9	14.3	14.6	19.7	19.2	19.3
31	---	---	---	14.2	12.6	13.3	---	---	---	19.2	18.6	18.9
MONTH	11.6	3.6	6.8	14.2	10.6	12.3	15.6	12.9	14.3	20.0	14.4	17.5

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.7	17.6	18.2	21.4	19.7	20.5	22.2	19.3	20.3	21.4	18.9	20.0
2	18.2	17.1	17.6	21.8	19.7	20.5	22.0	19.2	20.5	21.4	19.2	20.3
3	18.7	17.6	18.4	21.1	19.6	20.2	22.1	19.1	20.7	21.8	19.4	20.4
4	17.7	17.0	17.3	21.5	19.7	20.4	21.6	18.8	20.4	21.7	19.8	20.4
5	17.9	16.8	17.3	21.9	19.5	20.5	21.4	19.1	20.4	21.1	19.8	20.3
6	17.9	16.8	17.2	22.3	19.8	20.8	20.9	19.2	20.2	20.9	19.6	20.3
7	18.4	17.1	17.6	23.1	19.7	21.3	22.4	18.9	20.4	21.5	19.8	20.4
8	19.1	17.2	17.8	22.8	20.1	21.3	22.0	19.0	20.6	20.9	19.5	20.3
9	19.6	17.0	18.1	22.7	20.1	21.3	22.4	19.5	20.8	20.9	19.4	20.2
10	19.4	17.3	18.4	22.5	20.2	21.1	21.6	19.7	21.0	21.3	19.5	19.9
11	18.8	17.3	18.2	22.6	20.3	21.1	22.0	20.0	20.9	20.9	19.2	20.0
12	18.0	17.2	17.5	23.5	20.4	21.6	21.5	19.7	20.5	21.6	19.0	20.1
13	19.6	17.2	18.0	23.5	19.8	21.6	21.4	19.5	20.2	21.3	19.1	20.1
14	20.6	17.1	18.6	21.7	19.9	21.0	21.1	19.0	19.8	21.0	19.3	19.9
15	20.5	17.4	18.5	21.0	19.9	20.4	21.0	18.8	19.8	20.0	18.8	19.5
16	20.3	18.0	18.9	20.9	19.8	20.2	20.9	18.6	19.9	19.8	18.7	19.1
17	21.2	17.9	19.3	21.9	19.7	20.3	21.0	18.8	20.0	20.1	18.5	19.1
18	20.5	18.5	19.3	22.6	19.4	20.4	21.2	19.4	20.5	20.1	18.8	19.3
19	20.1	18.5	19.4	21.3	19.0	20.3	21.2	19.5	20.4	20.3	19.0	19.5
20	20.6	19.0	19.4	22.4	19.1	20.7	20.4	19.7	20.1	20.6	19.0	19.7
21	22.2	19.0	20.0	22.1	19.1	20.7	20.7	19.3	19.9	20.2	19.2	19.7
22	22.1	19.4	20.7	22.0	19.9	20.6	21.0	19.0	20.0	19.9	19.0	19.6
23	22.8	19.5	20.8	20.7	19.7	20.1	20.8	18.7	19.8	19.9	19.1	19.5
24	22.7	19.7	21.0	20.6	19.6	19.9	20.6	18.6	19.4	19.6	18.9	19.3
25	21.7	19.5	20.8	21.9	19.4	20.2	20.6	18.4	19.4	19.3	18.1	18.9
26	21.5	19.7	20.3	22.3	19.2	20.5	20.5	18.4	19.3	18.8	17.9	18.4
27	23.0	19.8	20.7	22.0	18.9	20.4	21.0	18.3	19.5	18.9	18.4	18.7
28	20.6	19.5	20.1	20.8	18.8	20.2	20.8	18.8	19.7	19.1	18.3	18.7
29	20.7	19.7	20.0	22.0	18.9	20.2	20.8	19.1	19.6	19.3	18.4	18.7
30	22.4	19.6	20.4	21.5	19.2	20.3	21.5	19.2	20.0	19.2	18.5	18.8
31	---	---	---	21.5	19.2	20.5	21.2	19.0	20.1	---	---	---
MONTH	23.0	16.8	19.0	23.5	18.8	20.6	22.4	18.3	20.1	21.8	17.9	19.6

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.9	9.0	9.3	9.9	9.0	9.4	10.0	9.3	9.7	11.6	10.5	11.2
2	10.1	8.9	9.4	9.6	8.5	9.2	10.7	9.4	10.0	11.4	10.1	11.0
3	10.2	9.1	9.5	9.5	8.6	9.2	10.1	9.8	9.9	11.4	10.7	11.1
4	9.3	8.3	9.0	10.0	9.1	9.6	10.3	9.7	9.9	11.1	10.7	11.0
5	9.3	8.6	8.9	10.0	9.4	9.7	10.0	9.7	9.9	11.2	10.8	11.0
6	9.2	8.2	8.9	9.9	9.1	9.6	9.9	9.6	9.8	11.6	11.1	11.3
7	9.4	8.6	8.9	10.0	9.2	9.7	9.9	9.7	9.8	11.5	11.1	11.3
8	10.1	8.6	9.4	10.3	9.3	9.8	10.0	9.7	9.9	11.4	11.0	11.2
9	9.8	7.9	9.2	10.1	9.6	9.9	10.3	9.6	9.9	11.6	10.8	11.4
10	9.2	7.5	8.6	10.4	9.6	9.9	10.1	9.9	10.0	12.0	11.4	11.7
11	8.8	7.8	8.4	10.3	8.5	9.9	10.1	9.8	10.0	12.0	11.6	11.8
12	9.8	7.2	8.5	10.4	8.4	9.8	10.2	9.5	9.9	12.0	11.5	11.7
13	9.2	8.6	8.9	10.1	9.7	9.9	10.4	9.7	10.2	12.0	11.5	11.7
14	10.1	8.2	9.1	10.3	9.5	9.9	10.5	10.3	10.4	11.9	11.4	11.7
15	9.4	8.2	8.5	10.1	9.2	9.8	10.7	10.3	10.5	12.0	11.4	11.7
16	10.3	8.5	9.2	10.4	9.5	9.9	10.7	10.5	10.6	11.6	11.1	11.4
17	9.2	8.7	9.0	10.1	9.2	9.8	11.0	10.1	10.6	11.9	11.1	11.5
18	9.3	8.3	9.0	10.5	9.2	10.0	10.8	9.9	10.6	11.5	10.9	11.3
19	9.5	7.9	8.9	10.7	9.4	10.1	10.7	9.9	10.5	11.4	10.7	11.0
20	9.8	8.6	9.1	10.2	9.1	9.9	10.6	10.4	10.5	11.2	10.8	11.0
21	9.7	9.0	9.4	10.5	8.4	9.8	10.9	10.2	10.5	11.2	10.8	11.0
22	9.7	8.9	9.3	10.1	9.3	9.9	11.0	10.4	10.7	11.1	10.6	10.9
23	9.5	8.9	9.3	10.5	9.6	10.1	11.2	10.7	10.9	11.1	10.7	10.9
24	9.9	9.0	9.6	10.3	8.1	9.7	11.3	10.7	11.1	11.4	10.7	11.1
25	10.1	9.1	9.7	9.7	8.6	9.4	11.4	10.9	11.2	11.5	10.9	11.2
26	10.1	9.3	9.7	9.6	9.1	9.4	11.5	10.9	11.3	11.8	11.1	11.4
27	10.2	8.5	9.3	9.5	8.7	9.4	11.7	11.2	11.4	11.8	11.2	11.5
28	9.0	8.5	8.8	9.6	8.7	9.3	11.9	11.1	11.5	12.2	11.0	11.7
29	9.4	8.4	8.9	9.5	8.6	9.3	12.0	11.0	11.5	11.9	10.8	11.6
30	9.5	8.6	9.1	9.8	9.1	9.5	11.9	11.1	11.5	11.9	11.4	11.7
31	9.6	8.2	9.1	---	---	---	11.6	11.2	11.4	11.9	11.4	11.8
MONTH	10.3	7.2	9.1	10.7	8.1	9.7	12.0	9.3	10.5	12.2	10.1	11.3

CUMBERLAND RIVER BASIN

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OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.0	11.5	12.2	10.0	9.4	9.6	10.4	9.5	10.0	11.9	10.2	11.3
2	12.4	10.9	11.4	9.6	8.9	9.3	11.6	9.1	9.9	11.3	10.8	11.1
3	---	---	---	---	---	---	10.7	9.5	10.1	11.7	10.5	11.3
4	---	---	---	---	---	---	9.9	9.4	9.7	11.3	11.0	11.1
5	---	---	---	---	---	---	9.6	9.2	9.4	11.5	10.6	11.1
6	---	---	---	---	---	---	10.0	9.1	9.5	11.8	10.6	11.1
7	---	---	---	---	---	---	9.9	8.9	9.4	12.4	10.6	11.2
8	---	---	---	11.7	10.5	11.1	10.0	9.3	9.7	12.0	10.2	11.1
9	---	---	---	11.4	9.9	10.7	9.8	9.0	9.4	11.5	10.0	10.9
10	---	---	---	10.8	9.7	10.4	10.4	8.8	9.7	10.8	9.5	10.3
11	14.3	13.7	---	10.8	9.5	10.2	10.1	9.2	9.7	11.7	9.2	10.4
12	14.2	13.7	14.0	10.6	9.9	10.2	10.1	9.4	9.8	11.4	8.8	10.3
13	14.1	13.3	13.8	11.2	10.1	10.7	10.2	9.7	9.9	10.5	8.7	9.8
14	13.9	13.6	13.8	12.1	10.7	11.1	10.0	8.9	9.6	10.7	8.2	9.5
15	13.6	13.3	13.4	11.8	10.1	10.9	10.2	8.7	9.6	9.9	8.4	9.3
16	13.5	13.1	13.4	11.1	9.9	10.3	10.0	8.1	9.5	9.6	7.9	8.8
17	13.2	12.9	13.1	11.3	10.6	10.9	9.9	8.7	9.3	10.3	6.9	8.8
18	13.2	12.7	12.9	11.6	10.4	10.9	9.8	8.4	9.1	9.5	8.3	8.8
19	12.8	12.3	12.6	11.2	10.5	10.7	11.5	8.7	10.0	9.0	8.0	8.5
20	12.3	11.7	12.1	10.6	10.1	10.3	12.1	10.0	10.7	8.7	6.5	8.0
21	11.9	10.9	11.6	10.4	10.1	10.3	10.7	9.6	10.2	8.6	6.2	7.8
22	11.4	10.5	11.1	10.6	10.1	10.3	10.5	9.5	10.0	8.9	6.9	7.9
23	11.0	10.4	10.8	10.3	9.8	10.1	11.1	7.8	10.0	8.3	7.1	8.0
24	10.7	9.8	10.5	10.1	9.3	9.9	10.6	9.7	10.2	8.7	6.7	7.9
25	10.5	9.4	10.0	10.2	9.3	9.8	10.3	8.5	9.9	9.3	7.1	8.5
26	10.1	9.1	9.8	10.4	9.0	9.6	10.4	9.4	10.0	9.2	8.0	8.7
27	9.9	9.3	9.6	9.8	8.8	9.4	10.8	9.6	10.3	9.2	8.5	8.7
28	9.6	8.8	9.4	9.1	8.4	8.9	11.1	9.8	10.6	9.6	9.2	9.5
29	9.6	9.2	9.5	9.8	8.6	9.0	11.7	10.2	11.1	9.4	7.9	8.5
30	---	---	---	10.3	9.3	9.8	12.1	10.4	11.4	8.2	7.8	7.9
31	---	---	---	11.0	9.5	10.2	---	---	---	8.7	7.8	8.1
MONTH	14.3	8.8	11.8	12.1	8.4	10.2	12.1	7.8	9.9	12.4	6.2	9.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.3	7.3	7.9	9.4	7.9	8.6	9.7	7.6	8.4	10.9	9.1	9.9
2	8.9	7.3	8.0	9.6	7.9	8.4	9.8	7.9	8.8	10.7	8.4	10.0
3	9.6	8.5	9.3	9.5	7.6	8.3	9.9	7.7	8.8	10.7	9.6	10.1
4	9.4	8.3	8.7	9.3	7.6	8.2	9.7	5.8	8.4	10.7	9.5	10.0
5	9.4	5.8	8.1	9.2	6.5	8.0	9.8	7.5	8.7	10.7	9.0	9.9
6	9.4	5.9	8.2	9.5	7.3	8.4	9.8	7.2	8.6	10.7	7.3	9.7
7	9.2	7.1	8.4	9.7	8.1	8.7	9.8	7.4	8.8	11.0	9.6	10.1
8	9.4	7.9	8.5	10.0	7.8	8.8	9.8	7.8	9.0	10.7	9.4	10.0
9	9.5	7.2	8.4	9.9	7.8	8.9	10.0	8.1	9.0	10.5	9.5	10.0
10	9.5	8.3	8.7	9.4	7.6	8.6	9.7	7.3	8.9	10.8	9.5	9.8
11	9.3	7.5	8.6	9.6	7.4	8.4	9.8	8.8	9.3	10.1	8.9	9.4
12	9.1	6.9	8.1	10.0	7.9	8.8	9.9	8.1	9.2	10.3	8.4	9.1
13	9.8	6.5	8.2	10.1	8.5	9.2	10.3	8.8	9.4	---	---	---
14	9.7	6.8	8.6	9.7	8.2	9.0	10.4	8.3	9.3	---	---	---
15	9.4	8.2	8.6	9.3	7.3	8.5	10.5	6.2	8.4	---	---	---
16	9.2	7.7	8.6	9.0	7.3	8.2	9.6	7.9	8.6	---	---	---
17	9.2	7.9	8.5	9.5	7.3	8.1	9.0	7.8	8.4	---	---	---
18	8.9	7.4	8.3	9.0	7.3	8.0	9.1	8.1	8.7	---	---	---
19	8.8	7.8	8.3	7.8	6.6	7.4	9.3	8.3	8.8	---	---	---
20	9.2	7.8	8.3	7.9	5.6	7.1	9.1	8.3	8.7	---	---	---
21	---	---	---	---	---	---	9.6	8.0	8.7	10.4	9.2	9.8
22	8.8	7.7	8.1	---	---	---	10.1	8.3	9.0	10.6	9.3	9.9
23	9.6	7.5	8.3	---	---	---	9.7	8.4	9.0	10.4	9.3	9.9
24	9.8	8.4	8.9	---	---	---	9.9	8.4	9.0	10.1	9.1	9.5
25	9.4	8.7	9.0	9.6	7.4	8.2	10.1	8.2	9.0	9.6	8.7	9.2
26	9.9	8.0	9.0	9.6	7.8	8.5	10.3	8.0	9.0	9.2	8.5	9.0
27	9.8	7.9	8.8	9.4	7.8	8.3	10.1	7.4	9.0	9.2	8.4	9.0
28	8.8	7.9	8.5	9.0	7.8	8.3	10.2	8.7	9.2	9.1	8.3	8.8
29	8.8	7.1	8.2	9.4	7.8	8.6	10.1	8.0	9.3	8.8	8.0	8.2
30	10.1	7.6	8.5	8.9	7.7	8.4	10.8	9.1	9.8	---	---	---
31	---	---	---	9.3	7.7	8.4	10.4	9.0	9.8	---	---	---
MONTH	10.1	5.8	8.5	10.1	5.6	8.4	10.8	5.8	8.9	11.0	7.3	9.6

CUMBERLAND RIVER BASIN

03421000 COLLINS RIVER NEAR MCMINNVILLE, TN

LOCATION.--Lat 35°42'32", long 85°43'46", Warren County, Hydrologic Unit 05130107, on left bank at downstream side of bridge on U.S. Highway 70S, 1.8 mi downstream from Barren Fork River, 2.5 mi northeast of McMinnville, and at mile 19.5.

DRAINAGE AREA.--640 mi².

PERIOD OF RECORD.--October 1924 to current year. Prior to April 1925 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 873: 1929, 1932(M), 1934-35, 1936(M), 1937. WSP 1276: 1925-26, 1928(M), 1933, 1936, 1940. WSP 2110: Drainage area.

GAGE.--Data collection platform. Datum of gage is 825.78 ft, Sandy Hook datum. Prior to Oct. 16, 1926, nonrecording gage on upstream side of bridge at same datum.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1854 is believed to have been about equal to that of Mar. 23, 1929, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	1030	15,900	17.35	Apr 4	1200	*20,200	*20.07

Minimum discharge, 95 ft³/s, Oct. 3, 24, 25, 26, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	100	135	147	786	1340	857	1170	439	258	213	189
2	100	479	131	144	668	1130	874	1030	356	233	232	186
3	98	570	128	144	570	963	4830	917	285	208	510	178
4	100	344	126	1220	515	1140	17900	1110	248	192	298	179
5	111	266	129	1560	473	1530	10800	972	235	181	235	184
6	119	201	134	1210	425	1270	4540	766	233	176	308	170
7	108	166	131	862	383	1070	2830	651	276	180	273	158
8	103	150	136	639	349	920	2380	573	281	178	324	151
9	105	141	144	553	322	798	2280	509	242	176	270	148
10	113	134	166	1420	298	731	1850	477	213	169	235	144
11	117	128	189	1580	286	1340	1600	455	195	160	216	142
12	113	124	231	1110	825	2730	2420	443	183	180	199	143
13	108	122	447	821	1680	2230	2310	401	171	220	186	149
14	108	120	827	676	3120	1680	3630	350	164	196	177	147
15	105	119	839	558	3130	1340	3660	312	173	178	169	139
16	102	116	596	486	2140	1150	2700	285	178	172	164	131
17	102	115	452	443	1540	1310	2080	267	210	163	158	128
18	101	114	369	424	1250	1260	1770	251	429	155	155	128
19	100	113	308	418	2810	2350	1520	238	419	153	151	125
20	100	114	265	439	2220	12900	1320	235	502	150	147	124
21	100	114	239	435	1650	6700	2460	236	482	147	146	131
22	100	115	218	419	1330	3620	2280	231	837	144	143	128
23	99	113	204	407	1140	2440	1750	265	1590	141	139	143
24	98	113	197	444	985	1880	1860	394	1110	138	139	193
25	97	127	190	513	839	1540	4570	414	658	138	139	796
26	97	137	183	517	732	1330	3240	425	519	136	138	1720
27	100	133	174	470	1070	1270	2280	578	489	135	218	1130
28	98	129	168	418	1910	1330	1900	550	452	135	354	619
29	98	129	162	405	1670	1140	1660	835	368	142	263	438
30	99	134	157	496	---	995	1360	704	297	158	232	336
31	97	---	153	821	---	941	---	538	---	173	200	---
TOTAL	3199	4980	7928	20199	35116	62368	95511	16582	12234	5265	6731	8677
MEAN	103	166	256	652	1211	2012	3184	535	408	170	217	289
MAX	119	570	839	1580	3130	12900	17900	1170	1590	258	510	1720
MIN	97	100	126	144	286	731	857	231	164	135	138	124
CFSM	.16	.26	.40	1.02	1.89	3.14	4.97	.84	.64	.27	.34	.45
IN.	.19	.29	.46	1.17	2.04	3.63	5.55	.96	.71	.31	.39	.50

03421000 COLLINS RIVER NEAR MCMINNVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	321	776	1592	2125	2372	2518	1800	1078	642	437	316	291
MAX	2345	4286	6783	6262	6564	6279	4412	3825	4216	2091	1439	1204
(WY)	1976	1958	1991	1974	1939	1929	1994	1984	1928	1989	1942	1992
MIN	63.5	69.0	107	126	391	619	462	225	85.9	115	76.2	62.9
(WY)	1932	1932	1940	1940	1941	1988	1986	1941	1988	1944	1925	1925

SUMMARY STATISTICS

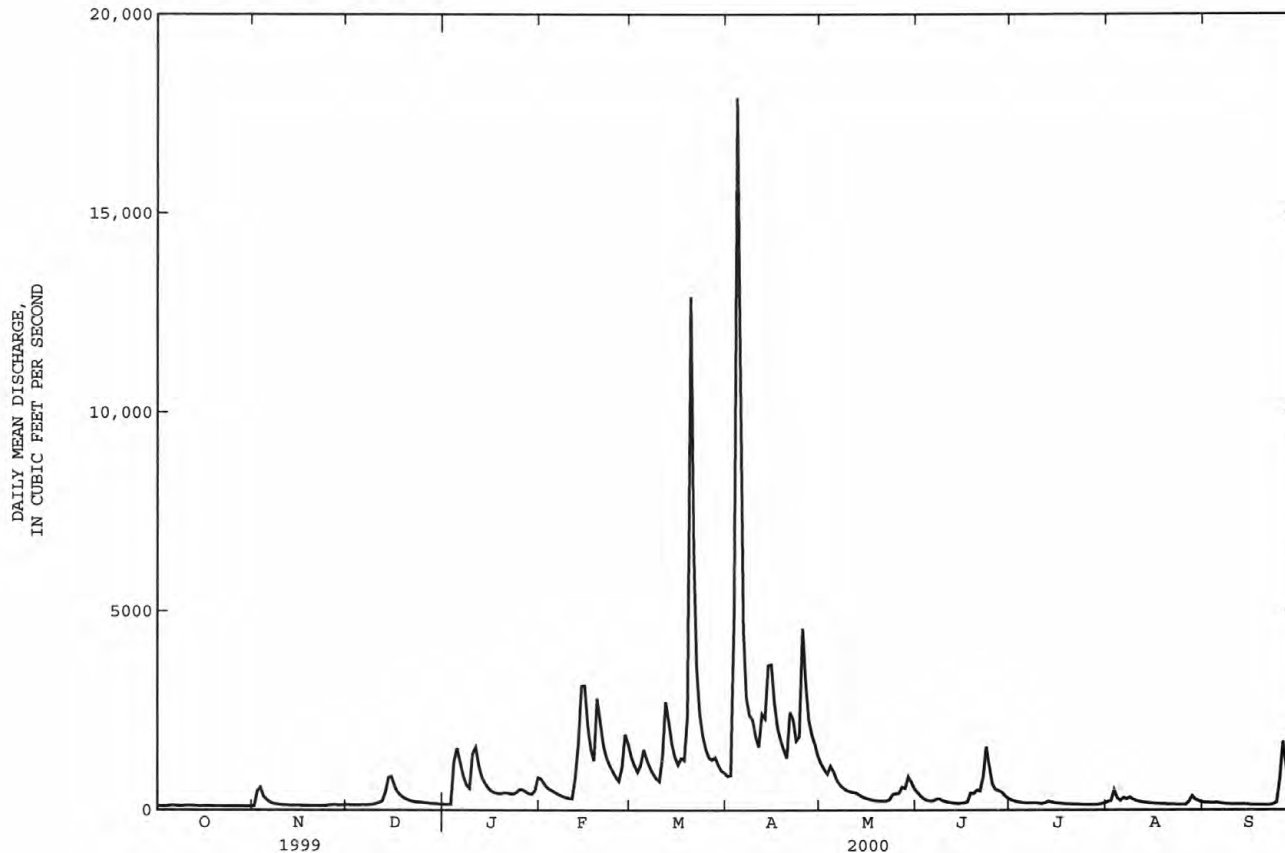
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1925 - 2000

ANNUAL TOTAL	398298	278790	
ANNUAL MEAN	1091	762	1183
HIGHEST ANNUAL MEAN			2193
LOWEST ANNUAL MEAN			409
HIGHEST DAILY MEAN	17100	Jan 24	17900
LOWEST DAILY MEAN	87	Sep 16	97
ANNUAL SEVEN-DAY MINIMUM	88	Sep 13	98
INSTANTANEOUS PEAK FLOW			20200
INSTANTANEOUS PEAK STAGE			20.07
INSTANTANEOUS LOW FLOW			a95
ANNUAL RUNOFF (CFSM)	1.71	1.19	1.85
ANNUAL RUNOFF (INCHES)	23.15	16.20	25.12
10 PERCENT EXCEEDS	2620	1760	2600
50 PERCENT EXCEEDS	370	268	534
90 PERCENT EXCEEDS	100	115	112

a Also occurred Oct. 24, 25, 26, 31.



CUMBERLAND RIVER BASIN

03424730 SMITH FORK AT TEMPERANCE HALL, TN

LOCATION.--Lat 36°05'14", long 85°54'29", Dekalb County, Hydrologic Unit 05130108, on left bank 150 ft downstream from James Slager Memorial bridge on State Highway 264, 0.3 mi northwest of Temperance Hall, and at mile 8.8.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--August 1991 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 499.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 19	2330	*11,300	*19.38	Apr 25	0830	5,510	12.09
Apr 3	2200	10,100	17.97	May 25	1130	5,630	12.25

Minimum discharge 10 ft³/s, Oct. 18, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	26	31	156	168	216	247	101	43	38	39
2	17	64	24	31	120	145	210	221	86	37	335	35
3	15	104	22	33	97	126	3870	202	74	33	104	36
4	13	63	22	36	86	143	4880	245	66	29	81	45
5	12	40	22	42	77	272	1220	221	64	27	77	37
6	14	30	22	53	68	196	652	184	69	28	93	32
7	15	26	24	49	63	160	445	166	63	29	81	29
8	13	23	23	45	60	138	444	153	55	30	165	26
9	20	20	22	71	56	124	426	146	50	31	171	24
10	36	20	39	266	53	110	351	149	47	28	103	23
11	37	18	88	159	52	134	392	146	43	26	71	21
12	31	18	69	106	59	227	1550	135	38	41	55	23
13	21	18	389	86	87	196	743	124	36	37	47	24
14	16	18	546	82	1770	161	580	117	34	26	41	26
15	13	18	216	75	589	138	456	111	45	24	38	26
16	12	18	115	69	325	149	373	107	49	22	34	23
17	12	18	76	64	225	531	329	105	44	20	32	20
18	12	18	58	64	412	326	293	102	41	20	30	18
19	12	18	49	64	636	4010	256	99	46	20	29	17
20	13	19	43	66	400	5690	236	103	45	20	28	17
21	12	18	38	70	273	1280	231	105	41	20	28	17
22	13	19	36	71	212	646	208	101	43	20	27	17
23	12	20	34	72	176	430	188	105	42	19	27	18
24	12	21	32	77	150	337	422	109	36	19	28	21
25	13	25	32	89	132	281	3110	1860	32	18	28	27
26	12	35	31	86	118	246	1080	609	29	18	28	32
27	12	46	31	76	155	233	577	488	35	17	69	35
28	12	47	31	68	259	235	428	344	95	17	228	29
29	12	37	31	72	199	207	341	237	96	17	93	24
30	13	31	31	185	---	204	287	165	59	19	60	19
31	13	---	31	212	---	241	---	124	---	38	47	---
TOTAL	489	884	2253	2570	7065	17484	24794	7330	1604	793	2316	780
MEAN	15.8	29.5	72.7	82.9	244	564	826	236	53.5	25.6	74.7	26.0
MAX	37	104	546	266	1770	5690	4880	1860	101	43	335	45
MIN	12	14	22	31	52	110	188	99	29	17	27	17
CFSM	.07	.14	.34	.39	1.14	2.64	3.86	1.10	.25	.12	.35	.12
IN.	.09	.15	.39	.45	1.23	3.04	4.31	1.27	.28	.14	.40	.14

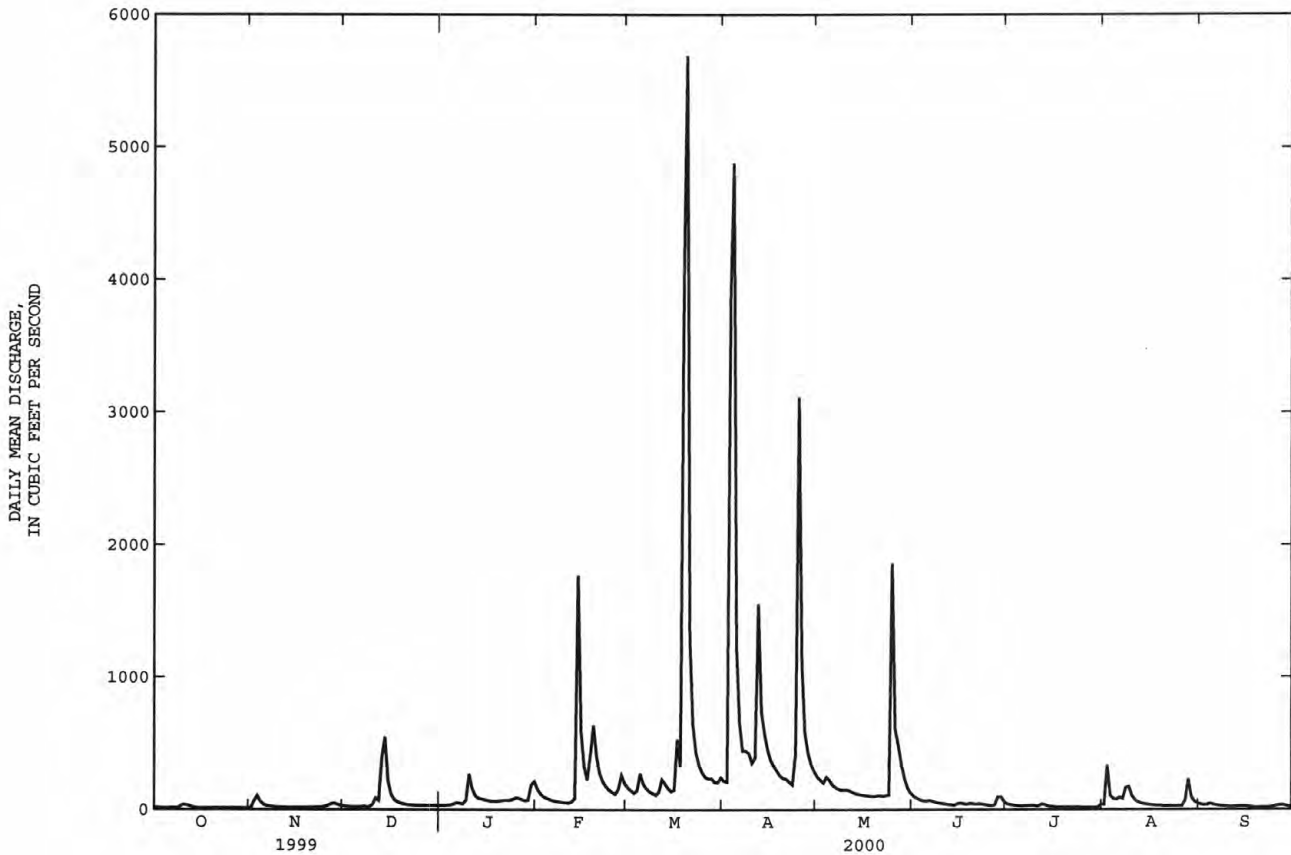
03424730 SMITH FORK AT TEMPERANCE HALL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	87.7	199	440	601	477	746	481	270	249	134	76.3	78.7
MAX	270	559	811	1081	1190	1516	1095	506	768	460	225	389
(WY)	1996	1997	1992	1999	1994	1994	1994	1995	1998	1992	1996	1992
MIN	15.8	29.5	72.7	82.9	212	477	158	61.4	52.7	25.6	22.5	12.5
(WY)	2000	2000	2000	2000	1993	1995	1992	1992	1993	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	98820.7		68362			
ANNUAL MEAN	271		187		321	
HIGHEST ANNUAL MEAN					488	
LOWEST ANNUAL MEAN					187	
HIGHEST DAILY MEAN	11800	Jan 23	5690	Mar 20	11800	Jan 23 1999
LOWEST DAILY MEAN	9.7	Sep 10	12	Oct 5	9.7	Sep 10 1999
ANNUAL SEVEN-DAY MINIMUM	10	Sep 7	12	Oct 23	10	Sep 7 1999
INSTANTANEOUS PEAK FLOW			11300	Mar 19	19900	Jan 23 1999
INSTANTANEOUS PEAK STAGE			19.38	Mar 19	26.12	Jan 23 1999
INSTANTANEOUS LOW FLOW			a10	Oct 18	9.0	Sep 8 1999
ANNUAL RUNOFF (CFSM)	1.27		.87		1.50	
ANNUAL RUNOFF (INCHES)	17.18		11.88		20.35	
10 PERCENT EXCEEDS	556		342		655	
50 PERCENT EXCEEDS	87		50		117	
90 PERCENT EXCEEDS	13		18		23	

a Also occurred Oct. 19.



CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN

LOCATION.--Lat 36°17'47", long 86°39'28", Davidson County, Hydrologic Unit 05130202, at right bank in powerhouse, at Old Hickory Dam, 2.0 mi west of Hendersonville, and at mile 216.2.

DRAINAGE AREA.--11,673 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to September 1942, October 1947 to current year. Prior to July 1953, published as "at dam 3, near Old Hickory". July 1953 to September 1986 published as "below Old Hickory".

GAGE.--Datum of gage is sea level.

REMARKS.--Flow regulated by six lakes or reservoirs (see p. 124).

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 173,000 ft³/s, Jan. 29, 1937; maximum gage height, 438.80 ft, Mar. 14, 1975; minimum daily discharge, 86 ft³/s, Aug. 15, 1936; minimum gage height since filling of Cheatham Lake on Oct. 1, 1956, 383.49 ft, Sept. 10, 1962, at present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1793, 437.4 ft Dec. 31, 1926, at present datum, from profile by U.S. Army Corps of Engineers, discharge, 200,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 64,300 ft³/s, Mar. 20; minimum daily, 3,320 ft³/s, Mar. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7750	4390	5300	4420	6080	7650	4570	23600	17300	9600	7140	11900
2	6410	4860	4810	3590	6550	6850	3370	17000	12400	6300	10100	10800
3	5740	5740	5120	4330	5820	6000	5520	20800	14200	7580	12200	11400
4	5810	7070	4310	11000	5270	4800	22100	22300	12200	5780	13400	10800
5	6380	7950	4620	10200	4280	4750	27700	19700	11400	7850	11100	7930
6	6230	7260	4340	9540	3850	4850	20000	19800	7460	10700	9880	7870
7	4920	5460	4340	7020	5330	4880	16200	13900	7640	11300	10500	9150
8	6360	7560	5310	6220	4650	5580	15600	13000	6700	10400	14600	12100
9	4280	10400	4800	6460	4380	5310	25900	12500	6180	9250	18200	10700
10	8660	8710	5770	6750	4450	5470	22900	11500	7210	9570	20200	6780
11	5570	6550	5560	8170	4720	4550	17400	13300	5610	9610	19500	8900
12	4600	4440	5620	8100	4560	5740	27800	14300	5740	11800	16800	6250
13	5140	4420	8950	6230	4320	9250	34100	12700	6000	14500	10300	8660
14	6670	4420	14400	5270	28900	6820	17600	7790	7040	14900	11900	9500
15	6720	4420	10200	4270	30600	4330	12300	5360	7450	10800	11600	10000
16	4320	5510	8390	3840	12700	3360	15800	4580	9220	7550	15200	9010
17	4310	5650	7360	5870	7750	3350	16500	4350	10600	6520	14600	5780
18	4800	5900	6780	5310	12300	3320	14700	4870	8420	8800	19300	5770
19	4830	5160	4550	7130	11900	13600	16200	4280	7770	12800	18500	5820
20	6140	5680	5060	6110	19400	64300	18000	4500	8090	16400	11300	7280
21	5570	4420	4790	6080	12500	60800	17700	4330	8080	15400	8740	9620
22	5630	4420	4810	4750	8170	26700	16000	4350	11700	7400	8650	12100
23	4780	4420	4330	5980	7370	9300	14000	4090	15500	7290	9130	5660
24	5630	4380	4320	5950	7220	9810	14700	7470	10400	7060	10100	5240
25	4420	4350	4290	4140	5610	6490	27800	31400	8230	6800	14700	4820
26	4800	4360	4280	5160	4800	5280	30100	24300	8670	7100	10400	5880
27	6640	4320	4300	4840	5060	5340	27500	20100	8050	8820	9530	6650
28	5620	4830	4350	4770	5330	5000	20100	19700	8300	11000	8480	6960
29	4870	5900	4290	4080	7110	5110	21700	19500	9490	9950	9710	7450
30	5310	4820	4280	4050	---	4300	24000	21000	9610	11800	10200	5780
31	4780	---	4550	6370	---	5020	---	19800	---	11500	12000	---
TOTAL	173690	167770	174180	186000	250980	317910	567860	426170	276660	306130	387960	246560
MEAN	5603	5592	5619	6000	8654	10260	18930	13750	9222	9875	12510	8219
MAX	8660	10400	14400	11000	30600	64300	34100	31400	17300	16400	20200	12100
MIN	4280	4320	4280	3590	3850	3320	3370	4090	5610	5780	7140	4820

CUMBERLAND RIVER BASIN

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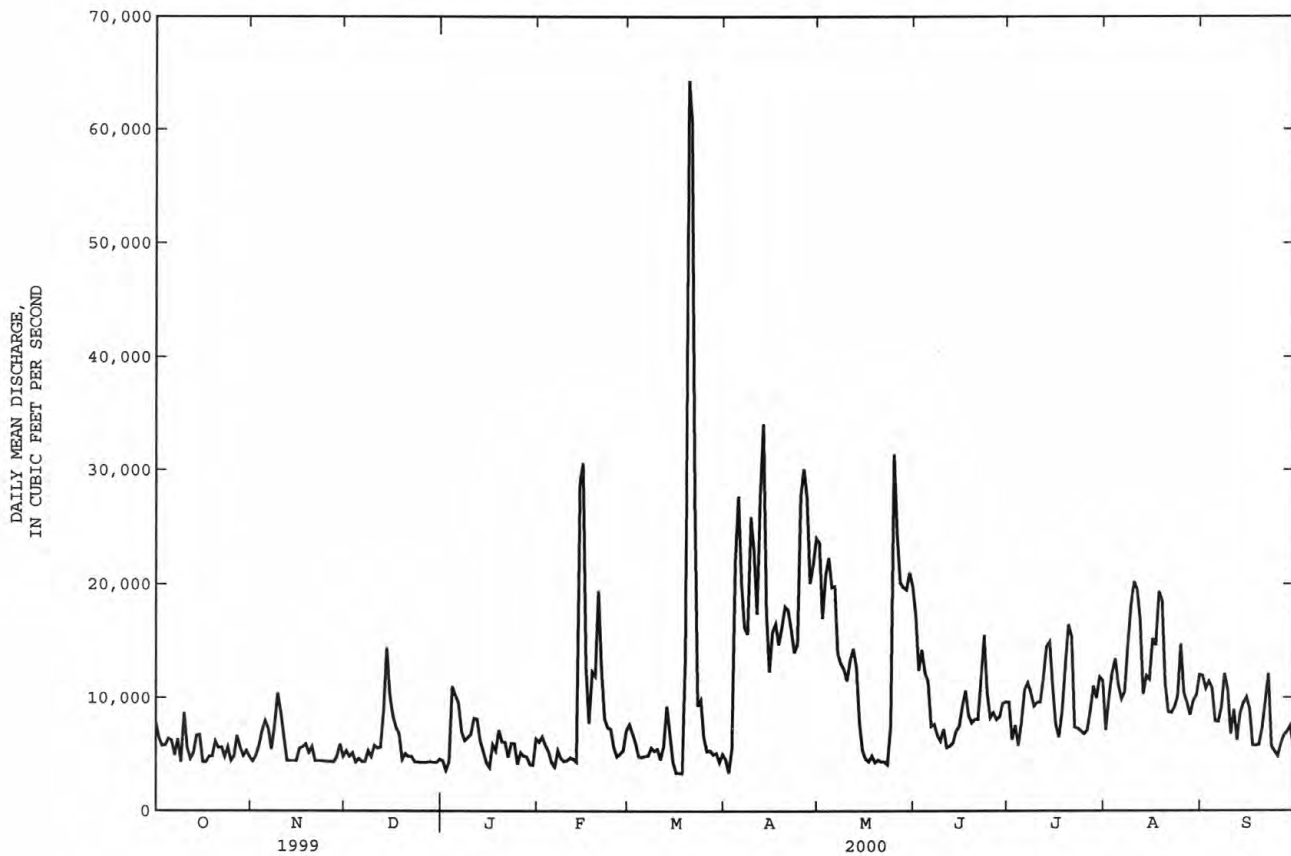
03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9224	12330	21920	28480	27410	31450	28680	20550	15920	12790	12060	9939
MAX	29430	29530	43590	79580	61700	73880	74400	65100	40510	28410	21400	27600
(WY)	1990	1980	1979	1974	1957	1975	1994	1984	1997	1967	1982	1979
MIN	2660	3449	3974	4656	8524	6778	6963	5465	6048	4211	4991	2723
(WY)	1969	1981	1981	1981	1981	1981	1986	1988	1988	1974	1975	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		*WATER YEARS 1957 - 2000	
ANNUAL TOTAL	5066430		3481870			
ANNUAL MEAN	13880		9513		19200	
HIGHEST ANNUAL MEAN					28560	
LOWEST ANNUAL MEAN					8780	
HIGHEST DAILY MEAN	86400		Jan 24		146000	
LOWEST DAILY MEAN	4280		Oct 9		200	
ANNUAL SEVEN-DAY MINIMUM	4300		Dec 24		1070	
10 PERCENT EXCEEDS	28000				40900	
50 PERCENT EXCEEDS	10500				13800	
90 PERCENT EXCEEDS	4800				5300	

* Regulated period only.



CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to current year.

pH: April 1979 to current year.

WATER TEMPERATURE: April 1979 to current year.

DISSOLVED OXYGEN: April 1979 to current year.

TURBIDITY: October 1992 to current.

INSTRUMENTATION.--Water-quality monitor since April 1979.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Periods of missing record were due to instrument malfunctions. Supersaturation of dissolved oxygen may occur due to local hydraulic conditions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 262 microsiemens, Apr. 15, Dec. 2, 1988; minimum, 137 microsiemens, Mar. 14, 1994.

pH: Maximum, 9.8 units, Mar. 26, 1988; minimum, 6.4 units, July 28, 1991, July 24, 25, 26, 1993.

WATER TEMPERATURE: Maximum, 27.6°C, Aug. 8, 1988; minimum, 2.1°C, Dec. 24, 1989.

DISSOLVED OXYGEN: Maximum, 16.0 mg/L, March 25, 1994; minimum, 2.9 mg/L, Sept. 5, 1988, July 8, 1993.

TURBIDITY: Maximum recorded, 170 NTU, Mar. 5, 1997, minimum, 1 NTU, many days during the 1996, 2000 water year; Sept. 20, 1997.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 240 microsiemens, Mar. 13; minimum, 190 microsiemens, Oct. 9, 10, 12, 13.

pH: Maximum, 8.7 units, Nov. 9; minimum, 7.2 units, several days.

WATER TEMPERATURE: Maximum, 26.8, July 8, 17, Aug. 10; minimum, 3.9°C, Feb. 2, 3.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L, Feb. 11; minimum, 4.5 mg/L, Jun 16.

TURBIDITY: Maximum, 29 NTU, Mar. 20; minimum, 1 NTU, several days.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	195	193	195	199	197	198	198	196	197	206	201	204
2	196	193	194	200	198	199	197	196	197	207	204	206
3	197	194	195	199	198	198	198	196	196	210	206	208
4	195	193	194	199	198	198	197	196	196	215	209	212
5	194	192	193	199	197	198	198	195	197	216	215	216
6	194	192	193	199	198	199	196	194	195	216	215	215
7	194	193	193	201	198	199	196	195	195	217	215	216
8	193	192	192	201	198	199	196	195	195	217	216	216
9	192	190	191	199	196	198	195	194	195	216	215	215
10	192	190	191	201	196	198	194	193	194	215	212	214
11	193	191	192	198	197	197	193	192	193	213	208	211
12	193	190	191	198	196	197	193	193	193	209	206	208
13	193	190	191	198	196	197	194	193	194	206	204	205
14	194	193	193	198	195	196	194	193	193	205	203	204
15	193	191	192	198	195	197	195	193	194	205	203	205
16	193	192	192	198	195	196	194	193	194	205	203	204
17	194	193	193	197	194	195	195	194	194	206	203	205
18	194	192	193	195	194	195	195	194	194	209	205	207
19	194	193	193	196	194	195	196	194	195	210	207	208
20	194	192	193	195	194	194	196	193	194	212	208	210
21	194	192	193	196	194	195	195	194	195	212	210	211
22	195	193	194	196	195	195	196	194	195	213	211	212
23	195	193	194	197	195	196	196	194	195	217	213	215
24	195	194	194	197	195	196	196	195	195	220	216	219
25	195	194	195	198	195	196	196	194	195	220	216	218
26	196	194	195	197	195	196	196	194	195	217	215	216
27	197	195	195	197	195	196	196	193	194	216	215	215
28	197	196	196	198	195	196	196	193	195	217	215	216
29	197	196	196	198	196	197	197	195	196	216	214	215
30	197	196	196	198	196	197	200	196	198	217	215	216
31	198	196	197	---	---	---	201	199	200	218	215	216
MONTH	198	190	194	201	194	197	201	192	195	220	201	212

CUMBERLAND RIVER BASIN

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03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	220	217	218	231	228	229	220	217	219	227	226	227
2	221	219	220	231	229	230	---	---	---	228	226	227
3	221	219	220	231	228	229	224	222	223	228	225	227
4	221	219	220	230	228	229	228	223	226	226	224	226
5	221	220	220	230	228	229	233	228	230	225	223	224
6	221	218	220	228	226	228	233	226	230	225	223	224
7	220	218	219	228	226	227	226	222	224	223	221	223
8	220	218	219	227	224	226	222	213	216	225	222	223
9	220	218	219	233	226	229	216	212	214	223	222	222
10	219	217	218	236	232	234	216	213	214	224	223	223
11	219	215	217	237	234	235	215	210	213	225	223	224
12	217	216	216	239	235	237	210	204	207	227	224	225
13	216	214	215	240	237	238	204	201	203	225	223	224
14	215	209	212	239	236	237	203	202	202	229	222	224
15	217	210	213	237	233	235	204	202	203	228	224	225
16	219	217	218	235	232	234	205	202	204	227	224	225
17	221	218	220	233	230	232	206	204	205	225	222	223
18	222	218	220	231	229	230	209	205	207	225	223	224
19	223	221	222	231	224	228	215	209	212	225	221	223
20	221	219	220	226	208	214	218	215	217	222	219	220
21	220	218	219	215	208	212	218	216	217	221	220	220
22	221	219	220	210	207	208	217	214	216	220	219	220
23	223	221	222	211	209	210	215	212	214	220	218	219
24	226	222	224	212	209	211	213	212	212	220	217	219
25	228	226	227	213	211	212	206	204	205	220	216	218
26	229	225	227	214	212	213	204	201	203	217	215	216
27	230	228	229	217	213	215	211	203	206	218	215	216
28	230	228	229	220	215	217	214	211	213	221	218	220
29	230	227	228	219	217	218	---	---	---	221	220	221
30	---	---	---	220	218	219	---	---	---	221	220	221
31	---	---	---	220	217	218	---	---	---	220	219	219
MONTH	230	209	220	240	207	225	233	201	213	229	215	222

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	224	220	221	226	218	221	217	213	215	199	196	197
2	228	224	226	227	220	223	217	212	214	199	196	198
3	230	227	228	229	217	222	213	212	213	200	195	198
4	230	228	229	226	220	223	215	213	214	202	196	199
5	232	228	230	226	222	224	216	215	216	202	199	200
6	229	226	227	223	220	222	220	215	217	202	200	201
7	230	226	228	224	218	221	220	217	219	209	191	200
8	226	221	224	219	213	217	220	217	219	210	205	208
9	221	216	218	216	212	214	221	216	219	212	205	208
10	219	213	215	217	214	215	221	215	218	214	208	211
11	217	213	215	217	215	216	221	216	219	215	208	212
12	216	211	214	219	215	217	219	217	218	215	210	212
13	219	213	216	220	214	217	219	213	216	215	213	213
14	220	216	218	223	218	220	214	211	213	215	214	214
15	218	216	217	225	218	221	213	211	212	215	213	214
16	221	217	219	224	215	219	212	210	211	214	213	213
17	223	220	221	219	216	217	210	208	209	215	213	215
18	223	222	223	221	216	219	209	206	208	215	213	214
19	224	223	223	224	214	218	208	204	206	216	212	214
20	224	223	223	216	212	214	207	204	205	225	208	214
21	224	223	224	215	213	214	211	206	207	215	211	213
22	224	223	224	215	213	214	213	203	206	215	212	213
23	223	219	222	217	208	214	203	200	202	220	203	210
24	219	217	218	218	214	216	204	199	201	215	208	210
25	219	218	219	220	214	217	203	197	200	212	206	209
26	221	219	219	223	213	216	204	196	200	210	206	208
27	223	219	220	225	213	216	202	196	198	214	208	209
28	226	222	224	221	213	217	202	196	198	214	207	209
29	227	223	225	222	211	216	199	197	198	213	204	207
30	228	219	224	220	212	215	199	197	198	210	204	208
31	---	---	---	223	210	214	200	196	199	---	---	---
MONTH	232	211	222	229	208	218	221	196	209	225	191	208

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.6	8.3	8.0	8.1	7.8	8.1	7.9	8.1	7.9	8.1	7.8
2	8.4	7.5	8.2	7.9	8.0	7.9	7.9	7.8	8.1	7.9	7.8	7.7
3	8.1	7.5	8.1	8.0	8.0	7.9	7.9	7.7	8.1	7.9	7.9	7.7
4	8.0	7.5	8.1	8.0	8.0	7.9	7.7	7.5	8.1	8.0	7.9	7.8
5	7.8	7.6	8.2	8.0	8.0	8.0	7.7	7.5	8.0	7.9	8.0	7.8
6	7.9	7.7	8.1	8.0	8.0	7.9	7.8	7.7	8.1	7.9	8.1	7.8
7	7.9	7.7	8.1	7.9	8.1	8.0	7.9	7.7	8.1	8.0	8.0	7.8
8	8.1	7.8	8.4	7.9	8.1	8.0	7.8	7.6	8.1	7.9	8.4	7.8
9	8.0	7.6	8.7	8.1	8.1	8.0	7.8	7.7	8.0	7.8	8.3	7.9
10	7.6	7.4	8.5	8.0	8.1	8.1	7.8	7.7	8.2	7.9	7.9	7.7
11	7.7	7.4	8.2	7.8	8.1	8.0	7.8	7.7	8.4	8.2	8.0	7.7
12	8.1	7.5	7.8	7.6	8.0	7.9	7.7	7.6	8.3	8.2	8.0	7.8
13	8.4	7.7	8.0	7.5	8.0	8.0	7.7	7.5	8.4	8.3	8.3	7.8
14	7.8	7.2	8.0	7.6	8.1	8.0	7.7	7.6	8.4	8.2	8.3	8.2
15	8.4	7.6	7.8	7.5	8.0	8.0	7.8	7.7	8.2	8.1	8.4	8.2
16	8.1	7.8	8.0	7.4	8.0	7.9	7.9	7.8	8.1	7.9	8.3	8.2
17	7.8	7.4	7.9	7.6	8.1	8.0	8.0	7.7	8.1	7.9	8.2	8.0
18	7.8	7.5	7.8	7.7	8.1	8.0	7.9	7.6	8.0	7.9	8.2	8.0
19	7.7	7.5	8.3	7.6	8.1	7.9	8.0	7.6	7.9	7.7	8.2	8.0
20	7.8	7.4	8.2	7.7	8.2	8.0	8.0	7.8	7.8	7.7	8.0	7.6
21	7.9	7.5	8.0	7.6	8.2	8.0	8.0	7.9	7.7	7.6	7.6	7.5
22	7.9	7.6	8.0	7.4	8.2	8.1	8.1	7.9	7.7	7.6	7.5	7.4
23	7.9	7.6	7.8	7.4	8.3	8.1	8.1	8.0	7.7	7.6	7.5	7.5
24	8.0	7.8	7.8	7.3	8.3	8.2	8.2	8.0	7.7	7.6	7.7	7.4
25	8.3	7.8	7.7	7.2	8.3	8.1	8.3	8.0	7.9	7.6	7.7	7.4
26	8.3	8.0	7.7	7.2	8.4	8.1	8.3	8.2	7.9	7.8	7.7	7.3
27	8.5	8.1	7.7	7.2	8.4	8.2	8.3	8.1	7.9	7.8	7.8	7.5
28	8.3	8.0	7.7	7.2	8.3	8.1	8.2	8.1	7.8	7.7	8.1	7.7
29	8.4	7.9	7.9	7.2	8.3	8.1	8.2	8.0	8.1	7.8	8.1	7.9
30	8.6	8.1	7.9	7.8	8.2	8.1	8.1	8.0	---	---	8.3	8.0
31	8.5	8.1	---	---	8.2	8.1	8.1	7.9	---	---	8.2	7.8
MONTH	8.6	7.2	8.7	7.2	8.4	7.8	8.3	7.5	8.4	7.6	8.4	7.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.2	7.7	8.1	7.6	8.2	7.8	8.1	7.7	8.1	7.6	7.9	7.6
2	---	---	8.2	7.9	8.1	7.7	7.9	7.7	8.2	7.6	7.9	7.5
3	7.9	---	8.5	8.0	8.1	7.6	7.9	7.6	8.0	7.6	7.8	7.5
4	7.9	7.8	8.4	8.3	8.0	7.8	7.7	7.6	7.9	7.5	7.7	7.4
5	7.9	7.6	8.6	8.3	8.1	7.6	7.7	7.5	7.9	7.6	7.7	7.4
6	7.8	7.5	8.5	8.2	8.0	7.6	7.8	7.5	7.9	7.5	8.2	7.6
7	8.0	7.7	8.6	8.1	8.3	7.9	7.9	7.6	7.7	7.4	8.1	7.8
8	7.9	7.7	8.4	7.8	8.1	7.8	8.3	7.7	7.8	7.4	7.8	7.6
9	8.2	7.9	8.3	7.9	8.0	7.8	8.1	7.7	8.0	7.6	8.0	7.5
10	8.2	7.9	8.0	7.8	7.8	7.6	7.9	7.7	8.2	7.6	7.7	7.4
11	8.2	8.1	8.5	7.9	7.7	7.6	7.8	7.7	8.2	7.7	7.8	7.5
12	8.3	8.1	8.2	7.8	7.7	7.5	7.8	7.6	8.2	7.8	8.1	7.5
13	8.3	8.2	7.9	7.7	7.9	7.6	8.0	7.7	8.0	7.7	7.9	7.4
14	8.1	8.0	8.1	7.3	8.0	7.6	8.0	7.7	8.3	7.7	7.7	7.5
15	8.2	8.0	8.3	7.7	7.7	7.5	7.8	7.7	8.2	7.7	7.6	7.4
16	8.2	8.1	8.5	7.7	8.2	7.4	8.0	7.8	8.1	7.7	8.0	7.5
17	8.1	7.9	8.4	7.9	8.0	7.6	8.2	7.9	8.0	7.8	8.0	7.8
18	8.1	7.9	8.4	8.0	7.9	7.6	8.0	7.6	8.0	7.8	7.8	7.6
19	8.2	7.9	8.2	7.8	7.8	7.7	7.9	7.7	8.4	7.8	8.0	7.4
20	8.2	8.1	7.9	7.7	8.1	7.7	8.2	7.8	8.3	8.0	8.2	7.4
21	8.1	7.9	7.9	7.8	8.0	7.7	8.1	7.7	8.2	7.6	7.8	7.2
22	8.1	8.0	8.0	7.7	7.8	7.6	7.9	7.7	8.1	7.7	8.1	7.6
23	8.4	8.1	8.1	7.8	8.0	7.8	7.9	7.7	7.8	7.5	7.9	7.5
24	8.3	---	8.0	7.7	8.2	7.7	8.1	7.8	7.6	7.4	7.5	7.3
25	8.1	7.9	8.2	7.8	7.9	7.7	8.4	8.0	7.8	7.4	7.4	7.2
26	8.2	8.0	8.1	8.0	8.1	7.6	8.3	7.8	7.9	7.6	7.5	7.2
27	8.1	8.0	8.1	7.9	8.0	7.7	8.2	7.7	8.1	7.6	7.7	7.3
28	8.1	8.0	7.9	7.7	7.8	7.6	7.9	7.6	7.7	7.5	7.7	7.3
29	---	---	7.9	7.8	7.9	7.6	8.4	7.7	7.9	7.4	8.0	7.3
30	---	---	8.2	7.8	8.1	7.6	8.2	7.8	7.9	7.5	8.0	7.6
31	---	---	8.2	7.8	---	---	8.2	7.5	7.9	7.4	---	---
MONTH	8.4	7.5	8.6	7.3	8.3	7.4	8.4	7.5	8.4	7.4	8.2	7.2

CUMBERLAND RIVER BASIN

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03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.3	20.8	21.1	17.3	16.9	17.1	12.8	12.4	12.6	7.5	7.4	7.4
2	21.4	20.6	21.0	17.2	16.4	16.8	12.4	12.1	12.3	8.0	7.4	7.7
3	21.1	20.6	20.9	16.4	15.8	16.1	12.2	12.1	12.1	9.1	8.0	8.6
4	21.1	20.4	20.8	15.8	15.6	15.6	12.4	12.1	12.2	9.1	8.4	8.9
5	20.4	20.1	20.3	15.6	15.3	15.5	12.4	12.2	12.4	8.6	8.4	8.5
6	20.3	19.9	20.1	15.6	15.4	15.5	12.2	11.7	12.0	8.7	8.2	8.5
7	20.3	19.9	20.1	15.7	15.3	15.5	11.7	11.3	11.5	8.7	8.5	8.6
8	20.4	20.1	20.2	16.1	15.5	15.8	11.4	11.2	11.3	8.7	8.6	8.6
9	20.3	20.1	20.2	16.4	15.8	16.1	11.6	11.3	11.4	8.8	8.6	8.7
10	20.1	19.9	20.0	16.3	15.9	16.1	11.6	11.5	11.6	9.0	8.8	8.9
11	20.2	19.7	20.0	16.2	15.7	15.9	11.6	11.3	11.4	9.1	8.9	9.0
12	20.6	20.0	20.3	15.8	15.6	15.7	11.3	11.2	11.3	9.0	8.8	8.9
13	21.0	20.5	20.8	16.0	15.6	15.8	11.4	11.2	11.3	9.1	8.8	9.0
14	20.5	19.9	20.2	16.1	15.8	16.0	11.4	11.2	11.2	8.8	8.5	8.6
15	20.7	20.0	20.3	15.8	15.4	15.6	11.2	10.8	11.1	8.5	8.3	8.4
16	20.6	20.2	20.4	15.4	15.0	15.3	10.8	10.5	10.6	8.5	8.4	8.4
17	20.3	19.8	20.0	15.1	14.9	15.0	10.7	10.5	10.6	8.4	8.3	8.4
18	19.8	19.3	19.5	14.9	14.7	14.8	10.6	10.4	10.5	8.4	8.2	8.3
19	19.3	18.9	19.1	14.8	14.6	14.7	10.6	10.5	10.5	8.2	8.0	8.1
20	18.9	18.5	18.7	14.8	14.7	14.7	10.6	10.4	10.5	8.0	7.5	7.8
21	18.7	18.3	18.5	14.8	14.6	14.7	10.4	9.7	10.0	7.5	7.1	7.3
22	18.5	18.1	18.3	15.0	14.8	14.9	9.7	9.3	9.4	7.1	6.6	6.7
23	18.1	17.4	17.7	15.2	14.9	15.1	9.3	8.8	9.0	6.6	6.5	6.6
24	17.4	16.7	17.0	15.2	14.8	15.0	8.8	8.4	8.6	6.6	6.1	6.4
25	16.8	16.5	16.7	14.8	14.4	14.6	8.4	7.9	8.2	6.1	5.5	5.9
26	16.7	16.4	16.6	14.4	14.0	14.2	7.9	7.6	7.7	5.5	5.1	5.3
27	16.7	16.4	16.6	14.0	13.8	13.9	7.7	7.5	7.6	5.1	4.7	4.9
28	16.8	16.4	16.6	14.0	13.8	13.9	7.5	7.2	7.3	4.7	4.4	4.6
29	17.0	16.5	16.7	13.8	13.4	13.7	7.2	7.1	7.2	4.4	4.3	4.4
30	17.2	16.6	16.9	13.4	12.8	13.2	7.3	7.1	7.2	4.4	4.1	4.3
31	17.2	16.9	17.0	---	---	---	7.5	7.2	7.4	4.3	4.0	4.1
MONTH	21.4	16.4	19.1	17.3	12.8	15.2	12.8	7.1	10.3	9.1	4.0	7.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.2	4.0	4.1	12.0	11.5	11.8	15.3	14.1	14.7	17.0	16.5	16.7
2	4.2	3.9	4.1	11.8	11.4	11.6	---	---	---	17.4	16.5	17.0
3	4.3	3.9	4.1	12.1	11.7	11.9	---	---	---	18.2	17.3	17.8
4	4.3	4.2	4.2	12.2	11.9	12.1	15.1	14.6	14.8	18.0	17.6	17.7
5	4.3	4.1	4.2	12.5	12.0	12.2	15.0	14.7	14.7	18.6	17.8	18.1
6	4.5	4.2	4.3	12.7	12.1	12.4	15.6	14.6	15.0	18.9	17.8	18.3
7	4.7	4.3	4.5	12.9	12.2	12.6	15.7	15.1	15.4	19.5	18.1	18.7
8	5.1	4.6	4.8	14.1	12.5	13.3	15.6	14.4	14.8	19.8	18.1	18.9
9	5.5	4.8	5.1	14.0	13.0	13.6	14.5	14.0	14.3	20.0	18.4	19.2
10	6.1	5.4	5.8	13.4	12.5	13.0	14.6	13.9	14.2	19.6	18.5	19.0
11	6.4	6.0	6.3	13.5	13.2	13.3	14.6	14.0	14.2	20.9	19.5	20.2
12	6.3	6.1	6.2	13.3	12.8	13.0	14.2	13.8	14.0	21.0	19.7	20.4
13	6.7	6.3	6.4	13.3	12.8	13.0	13.8	13.4	13.5	20.1	19.7	19.9
14	7.3	6.7	6.9	13.4	13.1	13.2	13.6	13.3	13.4	20.4	19.5	20.0
15	7.9	7.2	7.5	13.6	13.2	13.4	13.8	13.4	13.6	21.1	20.0	20.6
16	7.8	7.6	7.7	13.7	13.4	13.6	14.2	13.5	13.8	21.1	20.1	20.6
17	7.7	7.4	7.5	13.4	13.0	13.2	14.0	13.6	13.7	21.4	20.0	20.7
18	8.2	7.6	7.9	13.4	12.9	13.1	14.4	13.7	14.0	22.1	20.5	21.5
19	8.2	7.8	7.9	13.3	13.0	13.1	15.5	14.2	14.7	21.7	20.5	21.0
20	8.1	7.7	7.9	13.1	12.8	13.0	15.6	15.2	15.3	20.7	19.9	20.4
21	8.7	8.0	8.3	12.8	12.1	12.4	15.4	14.6	14.9	21.0	20.5	20.7
22	9.1	8.7	8.9	12.9	12.1	12.5	15.1	14.8	14.9	21.0	20.1	20.7
23	9.5	9.1	9.3	13.4	12.9	13.1	15.4	15.0	15.2	21.6	20.5	21.1
24	9.9	9.5	9.7	14.6	13.0	13.8	15.4	15.4	15.2	21.7	20.4	21.1
25	10.5	9.8	10.1	14.5	13.5	13.9	---	---	---	22.5	21.4	22.1
26	11.2	10.5	10.8	14.5	13.3	14.0	15.5	14.8	15.1	22.5	22.3	22.4
27	11.2	10.8	11.0	14.5	13.9	14.3	15.6	15.6	15.4	22.8	22.3	22.5
28	11.4	10.5	10.9	14.7	14.1	14.4	15.7	15.2	15.4	22.5	21.7	22.2
29	11.9	10.9	11.4	14.4	14.0	14.2	---	---	---	22.0	21.7	21.8
30	---	---	---	14.2	13.9	14.1	---	---	---	22.6	21.8	22.1
31	---	---	---	14.4	14.0	14.3	---	---	---	22.7	21.9	22.3
MONTH	11.9	3.9	7.2	14.7	11.4	13.1	15.7	13.3	14.6	22.8	16.5	20.2

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.8	21.9	22.3	25.8	24.6	25.2	25.4	24.6	24.9	24.9	23.7	24.3
2	22.5	22.1	22.3	25.9	24.9	25.3	25.4	24.5	24.9	24.8	23.5	24.0
3	23.1	21.8	22.3	25.9	24.7	25.4	25.2	24.6	24.9	24.9	23.7	24.2
4	23.0	22.8	22.9	25.5	24.9	25.2	25.5	24.5	24.9	24.6	24.0	24.3
5	23.5	22.3	22.8	25.5	24.6	25.0	25.2	24.4	24.9	24.8	23.8	24.2
6	23.0	22.1	22.6	25.9	24.8	25.2	25.4	24.4	24.9	25.7	24.6	25.2
7	23.6	22.9	23.3	26.2	24.9	25.6	25.5	24.5	24.9	25.5	24.8	25.1
8	23.4	22.8	23.1	26.8	25.1	26.0	25.9	24.8	25.3	25.1	24.5	24.7
9	23.1	22.6	22.8	26.4	25.1	25.8	26.2	25.3	25.8	25.0	24.3	24.6
10	23.1	22.0	22.6	26.0	24.6	25.3	26.8	25.4	26.0	24.6	23.9	24.3
11	22.6	21.9	22.3	25.8	25.1	25.5	26.5	25.8	26.1	24.3	23.9	24.1
12	22.6	21.3	22.1	26.3	25.0	25.7	26.4	25.8	26.0	24.8	23.8	24.2
13	23.9	21.7	22.7	26.7	25.8	26.2	25.8	24.7	25.2	24.4	23.4	23.8
14	24.0	22.1	23.1	26.6	26.0	26.3	25.7	24.4	24.9	24.0	23.5	23.8
15	23.0	21.9	22.3	26.3	25.8	26.1	25.3	24.2	24.7	23.6	23.0	23.4
16	24.7	22.1	23.3	26.6	26.1	26.3	24.9	24.0	24.4	23.8	23.4	23.5
17	24.5	23.1	23.9	26.8	26.1	26.5	25.0	24.1	24.5	23.5	23.1	23.4
18	24.4	23.3	23.9	26.5	25.9	26.3	25.0	24.2	24.7	23.2	22.7	23.0
19	24.2	23.5	23.9	26.3	25.5	25.8	25.5	24.5	25.0	23.4	22.5	22.9
20	24.9	23.8	24.4	26.7	25.5	26.1	25.0	24.4	24.8	23.7	22.7	23.1
21	24.7	24.0	24.3	26.2	25.2	25.8	25.0	24.3	24.7	23.1	22.3	22.7
22	24.8	23.8	24.2	25.8	25.0	25.4	24.5	23.7	24.3	23.1	22.7	22.9
23	25.0	24.6	24.8	25.5	25.0	25.3	23.9	23.3	23.7	23.0	22.6	22.8
24	25.5	24.0	24.7	25.6	25.3	25.4	23.6	23.1	23.4	22.6	22.4	22.5
25	24.9	23.9	24.3	26.0	25.1	25.5	24.0	23.0	23.4	22.4	21.9	22.2
26	25.5	24.2	24.7	25.3	24.6	25.0	23.9	23.5	23.7	21.9	21.2	21.5
27	25.5	24.3	24.9	25.4	24.4	24.9	24.5	23.4	23.8	21.5	21.0	21.2
28	25.1	24.1	24.8	24.9	24.1	24.6	24.2	23.3	23.7	21.4	20.9	21.1
29	25.2	24.4	24.7	25.8	24.5	24.8	24.4	23.5	23.9	21.4	20.8	21.1
30	25.8	24.5	25.1	25.5	24.6	24.8	24.9	23.7	24.2	21.4	21.0	21.2
31	---	---	---	25.5	24.5	25.1	24.7	23.5	24.1	---	---	---
MONTH	25.8	21.3	23.5	26.8	24.1	25.5	26.8	23.0	24.7	25.7	20.8	23.3

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	9.3	8.4	8.9	---	---	---
2	---	---	---	---	---	---	9.3	8.7	9.1	---	---	---
3	---	---	---	---	---	---	9.4	9.0	9.2	---	---	---
4	---	---	---	---	---	---	9.5	9.1	9.3	---	---	---
5	---	---	---	---	---	---	9.4	8.9	9.3	---	---	---
6	---	---	---	8.1	7.7	8.0	9.2	8.9	9.1	---	---	---
7	---	---	---	8.2	7.8	8.0	9.3	8.8	9.2	---	---	---
8	---	---	---	9.2	7.9	8.5	9.7	8.8	9.4	---	---	---
9	---	---	---	9.8	8.2	8.9	9.9	9.2	9.5	---	---	---
10	---	---	---	9.4	8.4	8.7	9.7	9.4	9.5	---	---	---
11	---	---	---	8.6	7.3	7.8	9.7	9.2	9.5	---	---	---
12	---	---	---	8.2	7.3	7.8	9.5	9.1	9.4	---	---	---
13	---	---	---	9.1	7.6	8.4	9.4	9.2	9.3	11.5	10.9	11.2
14	9.7	5.9	7.8	9.1	7.9	8.5	9.7	9.3	9.5	11.4	11.0	11.2
15	10.5	8.7	9.3	8.4	7.5	8.1	9.8	9.3	9.5	11.8	11.1	11.5
16	10.5	6.4	7.8	8.7	7.8	8.4	9.9	9.6	9.7	11.6	11.2	11.4
17	7.4	6.5	6.9	8.5	8.0	8.3	10.0	9.6	9.8	11.4	10.0	11.1
18	8.5	7.2	8.0	8.0	6.5	7.4	10.2	10.0	10.1	10.7	9.3	10.2
19	8.7	8.2	8.4	6.5	5.8	6.3	10.1	9.5	9.9	10.0	9.4	9.9
20	9.5	7.4	8.8	6.4	5.6	5.9	10.4	9.9	10.2	9.9	9.6	9.7
21	10.0	8.9	9.4	7.4	6.4	7.0	10.5	9.9	10.2	9.8	9.5	9.7
22	10.0	9.1	9.6	7.2	6.3	7.0	10.7	10.1	10.5	9.8	9.4	9.6
23	10.0	8.9	9.5	7.2	6.5	6.9	10.8	10.1	10.6	9.7	9.2	9.6
24	8.9	8.2	8.6	7.6	6.5	7.1	10.9	10.6	10.8	9.7	9.2	9.6
25	9.1	8.3	8.8	8.3	7.3	8.0	11.1	10.6	10.9	10.6	9.3	10.0
26	---	---	---	8.4	7.3	8.2	11.4	10.6	11.0	10.5	10.0	10.3
27	---	---	---	8.6	7.9	8.4	11.3	10.4	10.8	10.7	10.1	10.5
28	---	---	---	8.5	8.0	8.3	10.7	10.4	10.5	10.9	10.5	10.7
29	9.2	8.2	8.7	8.6	8.0	8.3	10.9	10.3	10.7	11.0	10.7	10.8
30	9.8	8.4	9.1	8.9	8.2	8.6	---	---	---	11.1	10.8	10.9
31	9.0	7.9	8.5	---	---	---	---	---	---	11.3	10.9	11.1
MONTH	10.5	5.9	8.6	9.8	5.6	7.9	11.4	8.4	9.8	11.8	9.2	10.5

CUMBERLAND RIVER BASIN

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03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
FEBRUARY						MARCH			APRIL			MAY		
1	11.4	11.2	11.3	12.4	11.4	12.0	10.9	10.1	10.6	10.8	10.3	10.5		
2	11.9	11.2	11.5	11.6	11.2	11.4	---	---	---	11.2	9.6	10.5		
3	12.2	11.5	11.9	11.4	10.9	11.3	---	---	---	11.8	10.3	11.2		
4	12.4	11.9	12.1	---	---	---	9.9	8.8	9.3	11.4	10.8	11.1		
5	12.1	11.9	12.0	---	---	---	8.9	7.7	8.2	12.1	10.9	11.5		
6	11.9	11.4	11.8	---	---	---	8.3	7.4	7.8	12.1	10.4	11.3		
7	11.5	10.7	11.3	---	---	---	8.6	8.0	8.3	11.3	10.5	10.9		
8	---	---	---	---	---	---	9.0	8.1	8.5	11.1	8.9	10.1		
9	---	---	---	---	---	---	8.9	8.5	8.6	10.7	9.1	9.8		
10	---	---	---	---	---	---	9.4	8.4	9.0	9.7	8.4	9.0		
11	14.0	13.6	14.0	---	---	---	9.5	8.9	9.2	10.7	8.9	9.8		
12	13.6	13.3	13.5	---	---	---	10.5	9.2	9.9	9.9	8.5	9.2		
13	13.6	13.1	13.3	---	---	---	---	---	---	8.9	7.8	8.5		
14	13.5	13.1	13.3	12.1	11.5	11.8	---	---	---	9.1	7.9	8.6		
15	13.2	12.9	13.1	12.7	11.6	12.1	---	---	---	9.6	8.9	9.2		
16	13.4	12.9	13.1	12.4	11.6	12.0	---	---	---	9.5	8.4	8.9		
17	13.4	13.2	13.3	11.6	11.0	11.4	---	---	---	9.1	7.7	8.5		
18	13.3	12.9	13.1	12.1	10.9	11.6	---	---	---	8.9	8.0	8.4		
19	12.9	12.6	12.8	11.7	11.2	11.5	8.5	7.4	7.8	8.4	7.0	7.6		
20	12.6	12.1	12.4	13.1	11.3	12.3	8.5	8.1	8.3	7.7	6.9	7.4		
21	12.1	11.6	11.9	12.1	11.2	11.6	8.6	8.1	8.3	8.0	7.0	7.6		
22	11.6	11.4	11.5	11.8	9.3	10.1	9.2	8.3	8.9	8.2	6.9	7.6		
23	11.5	11.3	11.4	10.4	10.2	10.3	10.4	9.1	9.8	8.3	7.0	7.8		
24	11.5	11.2	11.3	11.1	10.0	10.5	10.2	9.6	9.8	7.8	6.8	7.3		
25	11.3	10.9	11.1	10.8	9.4	10.1	10.1	9.8	9.9	8.5	7.2	7.9		
26	11.3	10.5	11.1	10.6	9.3	10.0	10.4	9.8	10.1	8.7	7.9	8.3		
27	11.3	10.9	11.1	10.6	9.4	10.0	10.4	9.9	10.2	8.6	7.9	8.2		
28	11.7	10.8	11.3	10.9	9.8	10.4	10.1	9.7	9.9	8.0	7.6	7.8		
29	12.7	11.1	11.9	11.2	10.4	10.8	---	---	---	8.5	7.7	8.1		
30	---	---	---	11.6	10.7	11.1	---	---	---	9.4	8.2	8.6		
31	---	---	---	11.1	10.5	10.8	---	---	---	9.6	8.0	8.8		
MONTH	14.0	10.5	12.2	13.1	9.3	11.1	10.9	7.4	9.1	12.1	6.8	9.0		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
JUNE						JULY			AUGUST			SEPTEMBER		
1	9.3	7.7	8.4	8.0	6.3	7.2	7.6	5.8	6.5	7.6	6.7	7.2		
2	8.8	7.6	8.0	7.7	6.3	6.8	7.8	6.0	6.6	7.9	6.6	7.1		
3	8.6	6.8	7.5	7.8	5.2	6.7	7.3	6.3	6.8	7.8	6.9	7.4		
4	8.0	7.0	7.5	6.7	5.5	6.1	7.0	6.0	6.5	7.8	6.7	7.2		
5	8.2	5.7	7.1	6.4	5.3	5.8	7.0	6.1	6.6	7.3	6.4	6.8		
6	7.5	5.5	6.6	6.9	5.1	5.7	7.2	5.9	6.5	8.0	6.5	7.3		
7	8.7	6.7	7.9	7.3	5.9	6.6	6.5	5.7	6.1	7.8	7.2	7.4		
8	8.3	7.3	7.7	8.8	6.4	7.5	6.9	5.7	6.3	7.6	6.6	7.2		
9	7.9	7.1	7.4	8.1	6.3	7.3	6.9	6.3	6.7	8.1	6.5	7.2		
10	7.2	6.1	6.7	6.9	5.9	6.5	7.7	6.3	7.0	8.1	6.5	7.3		
11	6.8	5.9	6.5	6.7	5.4	6.2	8.1	6.8	7.2	8.4	6.8	7.6		
12	7.1	5.7	6.3	6.6	4.8	5.9	8.2	7.4	7.8	9.2	7.1	7.9		
13	7.3	5.5	6.3	7.5	5.1	6.6	7.9	7.1	7.5	8.7	7.0	7.6		
14	7.2	5.9	6.5	7.4	5.9	6.6	8.4	7.0	7.5	---	---	---		
15	6.3	4.9	5.5	6.9	6.1	6.4	8.0	6.6	7.3	---	---	---		
16	7.5	4.5	5.9	7.3	6.1	6.8	7.6	6.7	7.2	---	---	---		
17	7.2	5.6	6.5	7.5	6.4	7.1	7.7	7.0	7.3	---	---	---		
18	7.3	5.5	6.3	7.2	5.3	6.7	7.7	7.1	7.3	---	---	---		
19	6.5	5.3	6.0	6.5	5.4	5.7	8.0	7.1	7.5	8.2	6.4	7.2		
20	7.2	4.9	6.2	6.6	5.2	5.9	7.7	6.9	7.4	8.4	6.7	7.5		
21	6.7	4.9	5.7	6.6	5.5	6.1	7.3	6.2	6.8	7.6	6.0	6.8		
22	6.0	4.7	5.2	6.6	5.7	6.1	7.0	6.0	6.6	8.8	7.0	8.0		
23	7.2	6.0	6.6	6.6	5.6	6.2	6.8	6.1	6.5	8.4	7.2	7.6		
24	7.8	5.9	6.7	6.7	6.1	6.5	6.6	6.0	6.4	7.5	6.7	7.2		
25	6.9	5.9	6.3	7.6	6.4	6.9	7.0	6.1	6.6	7.2	6.4	6.8		
26	7.5	4.9	6.4	7.5	6.2	6.8	7.1	6.7	6.9	7.8	6.5	7.4		
27	7.0	5.6	6.4	7.4	5.8	6.6	7.1	6.6	6.8	8.7	6.9	7.9		
28	6.4	5.4	6.0	6.8	5.4	6.0	6.9	6.4	6.7	8.8	7.1	8.2		
29	6.7	5.0	5.9	7.8	5.5	6.4	7.5	6.5	6.8	10.0	7.5	8.8		
30	8.1	5.1	6.5	7.0	6.2	6.5	7.8	6.5	7.1	9.7	8.2	9.1		
31	---	---	---	7.5	5.5	6.6	7.8	6.0	7.0	---	---	---		
MONTH	9.3	4.5	6.6	8.8	4.8	6.5	8.4	5.7	6.9	10.0	6.0	7.5		

CUMBERLAND RIVER BASIN

03426310 CUMBERLAND RIVER AT OLD HICKORY DAM (TAILWATER), TN--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9	6	4	2	4	2	3	2	4	3	4	2
2	7	5	7	2	4	2	3	2	4	2	4	3
3	8	5	7	4	4	2	4	2	3	2	5	3
4	9	4	6	4	3	2	3	2	4	2	5	2
5	10	6	6	2	4	2	4	2	4	3	5	2
6	10	6	4	2	4	2	3	2	4	2	4	1
7	10	4	4	1	4	2	4	2	5	2	4	1
8	10	4	4	1	4	2	3	2	4	2	4	2
9	8	5	4	2	3	2	3	1	4	3	5	3
10	9	4	6	2	4	2	2	2	4	1	4	2
11	9	5	6	2	5	2	3	2	3	1	5	2
12	7	4	4	1	4	2	3	2	3	1	8	3
13	7	5	5	1	4	2	3	2	3	1	5	3
14	9	5	5	1	5	3	3	2	3	2	4	2
15	8	4	5	2	5	3	3	2	3	2	4	2
16	8	4	5	2	6	3	3	2	5	2	4	2
17	8	4	5	3	5	3	3	2	7	4	5	3
18	9	4	4	2	5	3	3	2	8	5	5	3
19	10	4	7	3	4	2	3	2	8	6	6	3
20	11	4	6	2	5	2	3	2	10	7	29	5
21	8	4	4	2	5	1	3	2	13	10	18	4
22	8	3	5	2	5	2	3	2	13	8	13	3
23	8	5	5	2	4	2	3	2	9	7	18	11
24	8	3	5	2	3	2	3	2	8	5	19	12
25	8	4	4	2	3	2	4	2	7	4	15	8
26	8	4	5	2	4	2	4	2	6	3	11	8
27	7	4	6	2	3	2	4	2	8	3	9	5
28	7	3	6	2	4	2	4	2	4	2	9	5
29	6	2	5	2	5	2	4	2	4	2	8	3
30	4	2	4	2	4	2	3	2	---	---	7	5
31	5	2	---	---	4	2	4	2	---	---	8	4
MONTH	11	2	7	1	6	1	4	1	13	1	29	1
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7	4	10	7	14	10	10	6	8	5	9	4
2	---	---	9	6	13	8	7	6	9	5	8	4
3	7	5	8	6	11	7	8	3	10	5	8	4
4	8	5	8	6	12	7	9	5	11	5	6	4
5	10	5	9	6	12	3	6	4	10	5	6	3
6	7	4	10	6	10	6	8	3	10	2	8	3
7	8	5	9	7	11	6	10	5	8	4	8	4
8	10	6	9	6	9	6	12	5	9	4	10	4
9	8	5	10	6	8	5	10	5	8	5	8	4
10	12	6	10	6	9	6	9	6	13	4	6	3
11	10	7	10	7	9	5	10	5	9	5	5	2
12	8	7	10	7	8	5	11	4	14	5	7	1
13	9	7	11	---	7	4	10	5	10	5	5	2
14	8	5	11	6	8	4	12	6	7	4	6	2
15	9	4	11	6	8	4	10	6	8	3	9	3
16	8	4	11	6	8	4	11	6	8	4	12	4
17	8	5	8	4	10	5	11	6	7	4	8	5
18	8	6	11	5	11	4	9	4	8	4	10	6
19	7	4	10	6	11	5	12	5	8	4	8	6
20	9	4	13	5	9	5	11	5	7	3	10	5
21	7	5	10	5	10	3	11	6	9	2	12	7
22	8	5	11	6	11	3	9	5	10	2	16	6
23	8	4	8	5	10	7	10	6	8	3	11	3
24	6	6	9	5	10	6	12	5	9	5	10	6
25	9	5	12	7	9	6	9	5	10	4	17	5
26	8	5	12	8	10	5	11	6	8	5	13	7
27	9	5	12	9	10	6	9	4	10	5	13	7
28	8	5	14	9	7	4	9	5	8	5	12	6
29	---	---	14	9	9	3	9	4	8	5	14	6
30	---	---	13	9	9	3	10	5	9	4	13	9
31	---	---	13	9	---	---	10	3	9	4	---	---
MONTH	12	4	14	4	14	3	12	3	14	2	17	1

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CUMBERLAND RIVER BASIN

03426385 MANSKER CREEK ABOVE GOODLETTSVILLE, TN

LOCATION.--Lat 36°20'20", long 86°43'04", Davidson County, Hydrologic Unit 05130202, on left bank at downstream end of bridge on U.S. Highway 31W, at mouth of Slater Creek, 400 ft below Lumsley Fork, and 1.2 mi north of Goodlettsville.

DRAINAGE AREA.--27.7 mi², includes Slater Creek.

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Data collection platform. Datum of gage is 434.99 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 13	2000	*2,960	*9.93	No other peak greater than base discharge.			

Minimum daily discharge, 0.40 ft³/s, on July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	2.1	2.5	2.2	11	28	16	44	16	1.9	10	1.7
2	.50	14	2.2	2.2	10	23	18	35	13	1.7	6.1	1.5
3	.48	6.3	2.3	54	10	20	35	30	11	1.6	4.4	1.7
4	.61	3.8	2.4	76	9.6	18	80	27	9.1	1.5	5.3	1.7
5	.70	3.2	3.6	29	8.6	15	53	24	7.5	1.4	4.7	2.0
6	.73	2.7	3.6	18	7.9	14	41	21	6.6	1.3	3.5	1.6
7	.70	2.4	3.0	13	7.7	13	34	18	5.7	1.2	2.7	1.4
8	.78	2.5	2.7	11	7.1	12	159	15	5.0	1.1	2.6	1.4
9	33	2.2	2.5	12	6.9	11	82	14	4.2	1.1	2.1	.99
10	14	2.3	14	11	6.5	10	56	16	3.6	.95	1.7	1.0
11	5.2	2.5	8.0	9.3	6.4	11	84	13	2.9	.84	1.5	1.1
12	3.1	2.5	29	8.3	9.7	10	118	11	2.6	.74	1.3	1.1
13	2.5	2.1	87	13	530	9.2	78	13	2.3	.96	1.2	1.1
14	2.2	2.2	57	10	251	8.2	58	11	2.1	.68	1.2	.95
15	2.1	1.6	25	9.2	79	8.6	46	9.4	10	.51	1.0	.86
16	1.8	1.5	13	8.7	45	11	39	8.2	6.7	.44	.91	.90
17	1.5	1.5	9.1	7.9	43	13	41	7.9	4.6	.40	.85	.97
18	1.5	2.0	6.6	19	142	12	36	7.1	5.5	.42	.84	1.0
19	1.5	1.7	5.6	21	103	272	31	6.3	6.5	.88	.93	.80
20	1.5	2.2	5.3	18	60	282	29	6.4	4.8	.74	.82	.79
21	1.5	2.3	4.0	15	40	108	27	6.7	3.8	.89	.81	.86
22	1.3	2.2	3.4	14	31	67	23	6.0	3.8	.75	.75	.82
23	1.7	2.0	3.0	13	25	46	21	16	2.5	.63	1.7	.91
24	1.7	2.1	2.8	12	26	36	385	10	2.1	.63	1.3	15
25	1.6	4.6	2.5	11	23	30	338	108	1.9	.55	1.0	10
26	1.6	8.0	2.4	10	22	25	128	123	1.7	.53	1.7	6.0
27	1.7	5.3	2.4	8.9	44	27	101	149	5.4	.51	16	3.3
28	1.7	3.6	2.3	8.3	41	23	124	74	3.5	1.5	4.6	2.3
29	1.7	3.0	2.2	9.4	33	20	80	43	2.6	9.5	2.9	1.7
30	1.8	2.6	2.3	11	---	19	57	29	2.2	84	2.3	1.5
31	1.9	---	2.2	11	---	18	---	21	---	27	1.9	---
TOTAL	93.16	97.0	313.9	476.4	1639.4	1220.0	2418	923.0	159.2	146.85	88.61	66.95
MEAN	3.01	3.23	10.1	15.4	56.5	39.4	80.6	29.8	5.31	4.74	2.86	2.23
MAX	33	14	87	76	530	282	385	149	16	84	16	15
MIN	.48	1.5	2.2	2.2	6.4	8.2	16	6.0	1.7	.40	.75	.79
CFSM	.11	.12	.37	.55	2.04	1.42	2.91	1.07	.19	.17	.10	.08
IN.	.13	.13	.42	.64	2.20	1.64	3.25	1.24	.21	.20	.12	.09

CUMBERLAND RIVER BASIN

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03426385 MANSKER CREEK ABOVE GOODLETTSVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10.6	30.8	50.4	77.8	74.4	104	69.4	50.9	41.3	8.02	4.87	9.14
MAX	21.7	81.9	123	157	169	251	116	97.3	127	12.7	14.0	52.2
(WY)	1996	1997	1997	1999	1994	1997	1998	1998	1998	1998	1994	1996
MIN	3.01	2.94	10.1	15.4	46.4	39.4	23.2	22.7	5.31	2.58	1.17	.38
(WY)	2000	1999	2000	2000	1995	2000	1995	1997	2000	1995	1993	1999

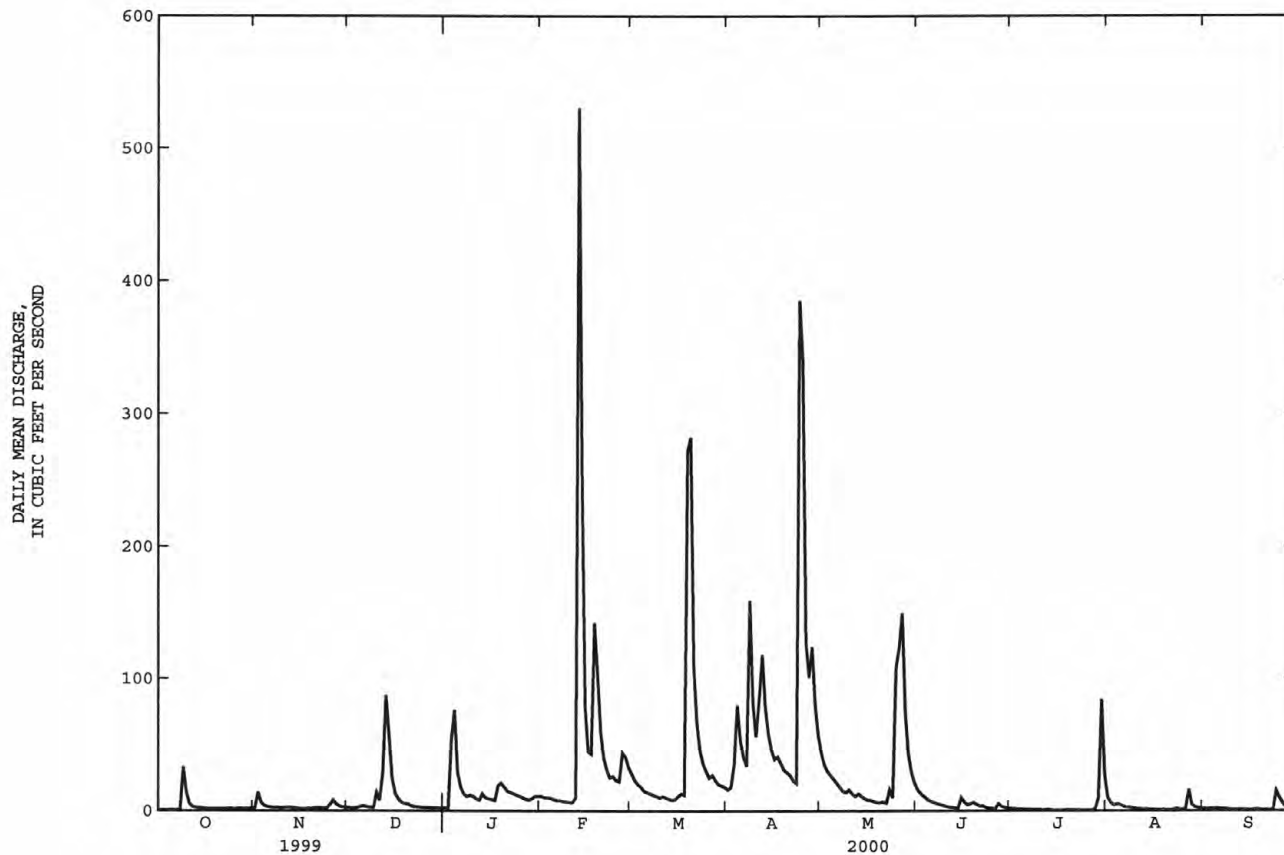
SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1993 - 2000

ANNUAL TOTAL	12349.72	7642.47	
ANNUAL MEAN	33.8	20.9	43.3
HIGHEST ANNUAL MEAN			63.9
LOWEST ANNUAL MEAN			1.99
HIGHEST DAILY MEAN	1140	Jan 23	530
LOWEST DAILY MEAN	.02	Sep 9	.40
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 3	.58
INSTANTANEOUS PEAK FLOW			2960
INSTANTANEOUS PEAK STAGE			9.93
ANNUAL RUNOFF (CFSM)	1.22		.75
ANNUAL RUNOFF (INCHES)	16.59		10.26
10 PERCENT EXCEEDS	76		46
50 PERCENT EXCEEDS	3.8		5.6
90 PERCENT EXCEEDS	.51		.91



CUMBERLAND RIVER BASIN

03426470 DRY CREEK NEAR EDENWOLD, TN

LOCATION.--Lat 36°17'05", long 86°42'24", Davidson County, Hydrologic Unit 05130202, on right wingwall on downstream side of bridge on Gallatin Pike, 0.6 mi southwest of Edenwold, 0.6 mi northeast of Anqui, and at mile 1.2.

DRAINAGE AREA.--7.64 mi².

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Data collection platform. Elevation of gage is 430 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,050 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 3	2145	*678	*7.05				

Minimum discharge 0.02 ft³/s, Aug 23, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.78	.65	1.1	3.5	4.5	3.7	8.6	2.7	.27	.69	.09
2	.12	6.5	.62	1.1	3.1	3.8	4.1	6.7	1.9	.22	.43	.08
3	.11	1.5	.60	53	2.9	3.4	13	5.6	1.5	.20	.32	.09
4	.12	1.1	.58	39	2.6	3.0	20	5.7	1.3	.23	.52	.93
5	.13	.93	.82	9.1	2.2	2.6	12	5.3	1.5	.23	.41	.56
6	.14	.74	.80	5.3	2.1	2.3	9.1	4.8	1.2	.18	.32	.26
7	.13	.65	.69	3.7	1.9	2.1	7.3	3.7	1.0	.17	.26	.21
8	.49	.63	.63	3.1	1.8	2.0	12	3.2	.92	.14	.23	.17
9	16	.63	.59	5.9	1.7	1.9	8.5	3.0	.82	.13	.19	.15
10	3.1	.64	3.0	5.1	1.6	1.8	6.9	5.1	.67	.10	.14	.13
11	1.1	.64	1.6	3.8	1.6	2.3	26	3.1	.56	.09	.09	.11
12	.78	.65	20	3.0	3.0	2.1	24	2.4	.48	.10	.08	.12
13	.70	.63	52	4.7	76	1.8	14	2.4	.43	.11	.07	.10
14	.73	.62	21	3.9	61	1.7	11	1.9	.41	.09	.06	.08
15	.71	.61	7.0	3.3	16	1.7	8.9	1.6	7.0	.07	.06	.07
16	.68	.61	4.0	2.8	9.1	2.0	7.4	1.4	2.1	.06	.04	.06
17	.64	.60	3.0	2.5	11	2.1	11	1.3	1.1	.07	.04	.06
18	.66	.60	2.4	6.1	30	1.8	8.1	1.2	1.0	.07	.04	.06
19	.65	.60	2.0	5.4	15	95	6.6	1.1	1.0	.47	.05	.05
20	.66	.75	1.8	4.6	9.9	77	5.9	1.1	.84	.21	.05	.05
21	.65	.67	1.6	3.9	7.5	22	5.4	1.2	1.0	.22	.04	.05
22	.64	.63	1.5	3.6	5.8	14	4.6	1.0	1.0	.16	.03	.05
23	.64	.59	1.5	3.5	4.5	11	4.2	2.8	.83	.12	.02	.20
24	.67	.64	1.4	3.6	5.0	8.7	118	1.5	.66	.11	.03	2.5
25	.69	2.2	1.4	3.4	4.1	7.0	95	60	.55	.09	.04	1.4
26	.71	2.7	1.3	3.0	3.9	6.0	24	34	.45	.08	.04	.81
27	.71	1.5	1.2	2.8	8.6	7.6	25	39	.44	.07	1.1	.49
28	.68	1.1	1.2	2.5	6.8	5.8	28	13	.57	.09	.35	.29
29	.68	.85	1.2	2.8	5.5	4.9	14	7.8	.48	.68	.23	.22
30	.66	.72	1.2	3.9	---	4.6	11	5.1	.34	4.1	.16	.19
31	.66	---	1.1	3.9	---	4.0	---	3.6	---	1.3	.12	---
TOTAL	35.18	32.01	138.38	203.4	307.7	310.5	548.7	238.2	34.75	10.23	6.25	9.63
MEAN	1.13	1.07	4.46	6.56	10.6	10.0	18.3	7.68	1.16	.33	.20	.32
MAX	16	6.5	52	53	76	95	118	60	7.0	4.1	1.1	2.5
MIN	.11	.59	.58	1.1	1.6	1.7	3.7	1.0	.34	.06	.02	.05
CFSM	.15	.14	.58	.86	1.39	1.31	2.39	1.01	.15	.04	.03	.04
IN.	.17	.16	.67	.99	1.50	1.51	2.67	1.16	.17	.05	.03	.05

CUMBERLAND RIVER BASIN

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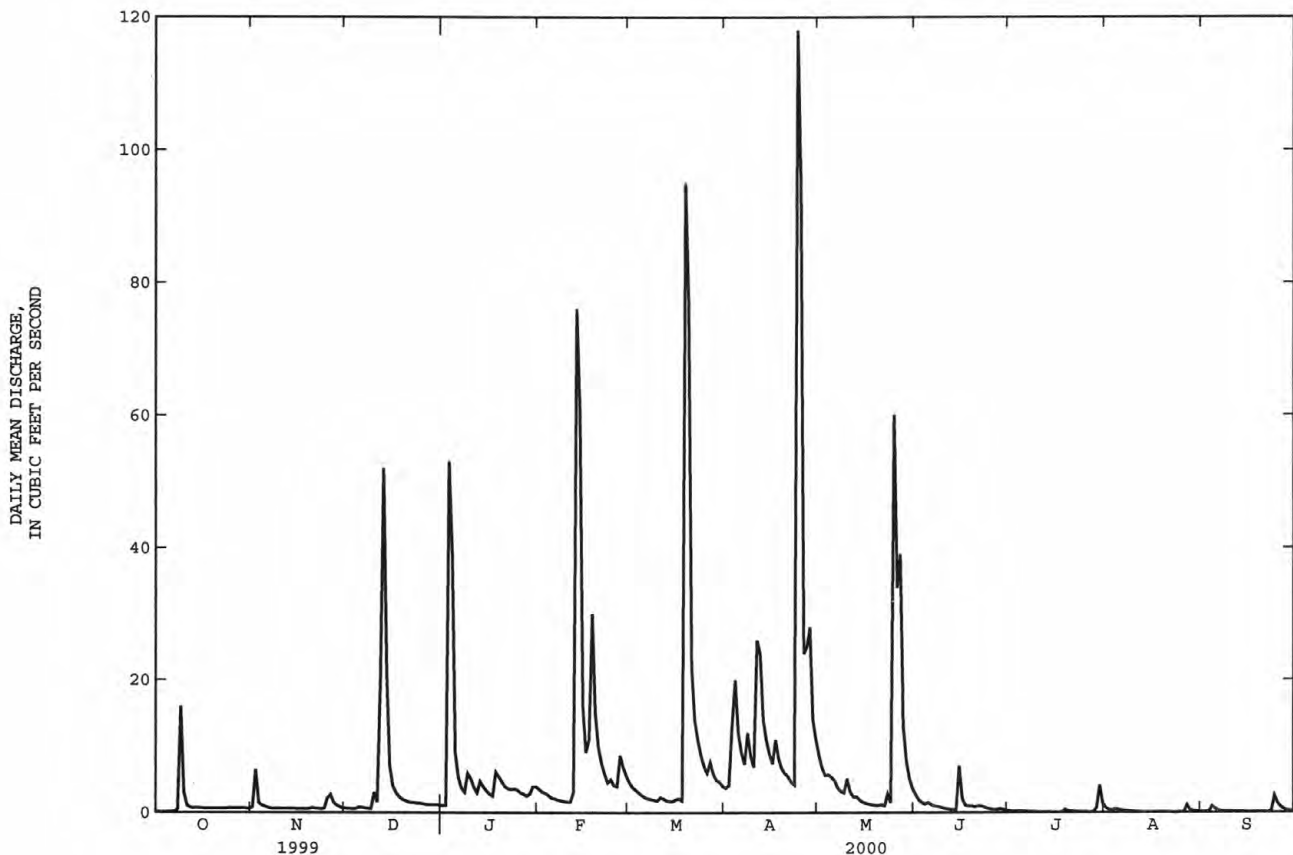
03426470 DRY CREEK NEAR EDENWOLD, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.27	10.9	16.0	23.9	14.9	25.1	20.2	9.87	22.2	2.47	.84	.86
MAX	5.15	30.8	34.2	49.9	19.9	57.0	48.5	20.8	47.3	4.06	1.91	2.58
(WY)	1997	1997	1997	1999	1999	1997	1998	1998	1998	1999	1997	1997
MIN	1.13	.68	4.46	6.56	10.6	10.0	6.93	4.24	1.16	.33	.20	.12
(WY)	2000	1999	2000	2000	2000	2000	1999	1997	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1997 - 2000
ANNUAL TOTAL	3784.10	1874.93	
ANNUAL MEAN	10.4	5.12	12.4
HIGHEST ANNUAL MEAN			17.6
LOWEST ANNUAL MEAN			5.12
HIGHEST DAILY MEAN	324 Jan 23	118 Apr 24	679 Jun 5 1998
LOWEST DAILY MEAN	.02 Sep 8	.02 Aug 23	.02 Sep 8 1999
ANNUAL SEVEN-DAY MINIMUM	.04 Sep 4	.04 Aug 20	.04 Aug 20 2000
INSTANTANEOUS PEAK FLOW		678 Jan 3	6360 Jun 5 1998
INSTANTANEOUS PEAK STAGE		7.05 Jan 3	10.21 Jun 5 1998
INSTANTANEOUS LOW FLOW		a.02 Aug 23	a.02 Aug 23 2000
ANNUAL RUNOFF (CFSM)	1.36	.67	1.63
ANNUAL RUNOFF (INCHES)	18.43	9.13	22.12
10 PERCENT EXCEEDS	21	11	24
50 PERCENT EXCEEDS	1.4	1.2	3.1
90 PERCENT EXCEEDS	.13	.09	.21

a Also occurred Aug. 24.



CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN

LOCATION.--Lat 35°54'10", long 86°25'48", Rutherford County, Hydrologic Unit 05130203, on left bank at Murfreesboro sewage treatment plant outfall, 3,000 ft downstream from Sinking Creek, 4.5 mi northwest of the courthouse in Murfreesboro, and at mile 10.7.

DRAINAGE AREA.--177 mi², includes 17 mi² without surface drainage.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1972 to January 1982, January 1986 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 514.95 ft above sea level.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Flow is affected by Murfreesboro sewage treatment plant outflow. An annual average of 11.6 ft³/s, with a maximum of 15.5 ft³/s is discharged to the West Fork Stones River 25 ft above the station. Prior to July 1987 an annual average of 7.7 ft³/s was discharged. Natural flow of stream affected by transbasin diversion of water from East Fork Stones River basin into the West Fork Stones River basin.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	0330	6,450	14.06	Apr 4	0230	*7,240	*15.04

Minimum discharge, 8.4 ft³/s, Nov. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	14	33	33	169	147	234	246	'85	34	30	24
2	20	125	31	33	143	130	269	209	74	29	41	32
3	19	56	30	34	123	114	2110	217	68	28	58	36
4	18	39	27	94	110	320	4010	265	62	26	47	25
5	18	33	28	100	98	441	1090	205	59	25	45	22
6	18	31	31	95	87	273	668	170	54	102	37	20
7	17	29	28	83	79	210	490	145	49	253	33	18
8	16	27	26	72	74	171	503	126	45	103	33	18
9	48	24	25	111	69	147	433	109	41	70	49	17
10	65	23	75	230	66	190	350	116	38	60	95	16
11	38	22	62	178	63	1690	336	97	35	52	42	16
12	31	20	69	133	274	759	907	88	35	44	32	175
13	27	20	313	129	492	451	595	80	36	44	27	126
14	25	20	824	108	1470	331	710	72	29	e39	25	70
15	23	20	329	98	686	265	552	66	31	e32	22	52
16	22	19	206	91	447	243	420	62	29	e29	21	42
17	21	19	147	85	343	298	353	59	32	e30	20	37
18	21	18	116	85	342	259	290	54	39	29	19	33
19	21	17	98	81	709	1490	248	54	43	39	18	30
20	19	18	85	85	429	3810	217	63	35	34	17	27
21	19	17	75	78	313	1020	233	53	39	e30	17	28
22	19	19	68	76	253	621	215	49	64	e28	16	28
23	22	18	63	83	212	463	179	136	41	e26	16	37
24	19	19	57	100	182	370	549	118	34	e24	20	63
25	18	27	52	116	161	331	2040	483	31	e22	22	95
26	17	58	48	110	141	454	857	208	30	20	19	65
27	16	40	46	100	170	382	537	205	50	20	62	52
28	15	38	43	89	207	377	446	179	73	21	47	45
29	15	39	40	121	176	287	357	153	47	20	34	40
30	15	37	37	180	---	323	290	122	39	e25	28	34
31	13	---	36	201	---	277	---	100	---	e30	24	---
TOTAL	700	906	3148	3212	8088	16644	20488	4309	1367	1368	1016	1323
MEAN	22.6	30.2	102	104	279	537	683	139	45.6	44.1	32.8	44.1
MAX	65	125	824	230	1470	3810	4010	483	85	253	95	175
MIN	13	14	25	33	63	114	179	49	29	20	16	16

CUMBERLAND RIVER BASIN

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03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	145	279	487	580	505	681	346	213	164	98.6	68.6	137
MAX	894	1035	1259	1453	1156	1773	954	818	765	658	348	880
(WY)	1976	1987	1991	1974	1991	1975	1994	1973	1989	1989	1996	1979
MIN	7.60	10.4	31.6	25.4	133	216	58.4	23.8	11.0	13.9	12.2	11.3
(WY)	1981	1981	1981	1981	1978	1981	1986	1981	1988	1988	1976	1980

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

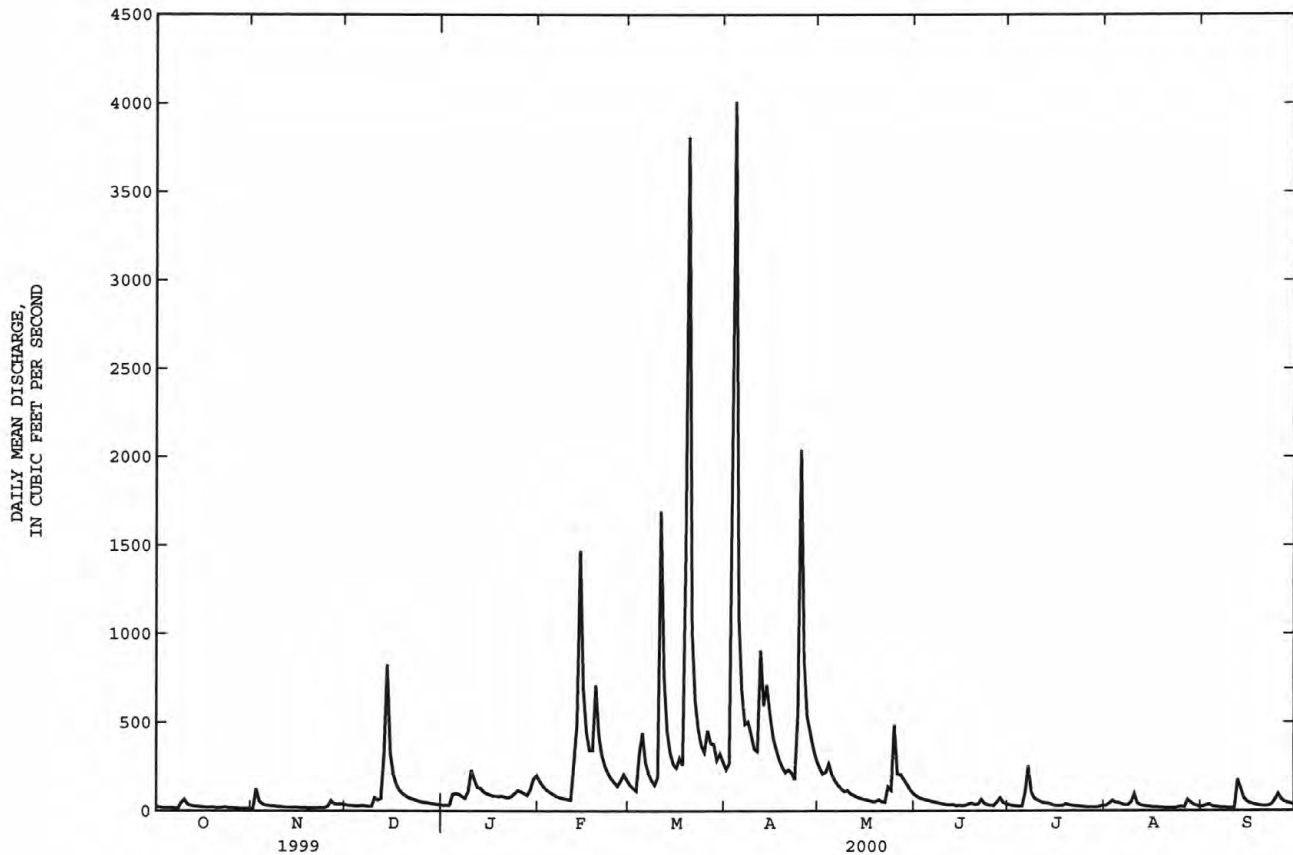
FOR 2000 WATER YEAR

aWATER YEARS 1972 - 2000

ANNUAL TOTAL	91851	62569	
ANNUAL MEAN	252	171	313
HIGHEST ANNUAL MEAN			517
LOWEST ANNUAL MEAN			76.0
HIGHEST DAILY MEAN	14100	Jan 23	21200
LOWEST DAILY MEAN	12	Aug 22	4.7
ANNUAL SEVEN-DAY MINIMUM	12	Sep 5	5.3
INSTANTANEOUS PEAK FLOW			31000
INSTANTANEOUS PEAK STAGE			23.80
INSTANTANEOUS LOW FLOW			2.9
10 PERCENT EXCEEDS	558		642
50 PERCENT EXCEEDS	58		108
90 PERCENT EXCEEDS	15		15

e Estimated

a See REMARKS.



CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

WATER-QUALITY RECORDS

LOCATION.--At bridge on Blanton Drive, 900 ft upstream from Sinking Creek, 0.7 mi upstream from discharge station.

PERIOD OF RECORD.--February 1986 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1986 to current year.

pH: February 1986 to current year.

WATER TEMPERATURE: February 1986 to current year.

DISSOLVED OXYGEN: February 1986 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Periods of missing record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 529 microsiemens, Jan. 24, 2000; minimum, 63 microsiemens, Dec. 25, 1987.

pH: Maximum, 9.0 units, Mar. 24, 1986; minimum, 5.8 units, June 18, 1992.

WATER TEMPERATURE: Maximum, 33.3°C, July 31, 1999; minimum, 0.2°C, Feb. 3, 4, 5, 6, 1996.

DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Feb. 1, 1998; minimum, 1.6 mg/L, Sept. 12, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 529 microsiemens, Jan. 24; minimum, 155 microsiemens, Mar. 20.

pH: Maximum, 8.4 units, several days; minimum, 7.2 units, June 19, Sept. 13, 14..

WATER TEMPERATURE: Maximum, 30.9, Aug. 17; minimum, 1.1°C, Jan. 27.

DISSOLVED OXYGEN: Maximum, 17.4 mg/L, Feb. 6; minimum, 3.2 mg/L, Aug. 11.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	407	389	397	434	418	429	452	445	449	438	427	434
2	408	401	405	418	326	368	460	452	458	440	432	436
3	402	390	397	396	345	373	464	457	459	440	395	434
4	393	389	391	403	396	401	462	454	458	425	396	417
5	391	388	389	404	401	403	458	454	455	426	410	419
6	392	388	390	406	401	404	462	455	459	450	426	441
7	392	386	389	405	402	403	464	459	461	439	427	434
8	390	384	388	411	403	408	464	459	462	448	432	441
9	385	324	371	422	411	416	464	457	462	449	402	427
10	403	385	396	432	411	420	457	404	434	446	424	437
11	407	403	406	440	427	434	440	422	428	445	422	430
12	405	402	404	445	435	440	445	411	437	434	427	430
13	405	402	403	452	445	447	426	381	412	436	422	429
14	407	401	403	455	450	452	420	361	390	438	432	436
15	408	401	404	460	455	457	365	352	356	448	436	442
16	406	401	403	465	460	463	394	365	379	447	439	445
17	407	402	404	469	465	467	414	394	403	447	441	445
18	409	405	407	469	466	467	428	414	422	450	446	448
19	411	407	409	469	464	467	438	428	434	453	441	448
20	411	407	410	464	461	463	450	438	444	452	446	449
21	414	410	412	469	463	466	456	450	453	453	440	448
22	416	410	414	471	468	470	459	454	457	451	445	448
23	423	415	419	471	468	470	462	454	458	502	449	467
24	425	422	424	470	465	467	460	456	458	529	479	512
25	432	425	430	468	463	466	463	450	457	479	455	464
26	434	431	433	467	453	461	456	441	449	463	449	457
27	435	432	434	460	454	458	452	431	441	465	454	459
28	436	432	434	459	454	456	443	431	438	462	455	458
29	435	430	433	465	453	461	443	430	437	463	445	453
30	433	428	431	455	445	451	441	426	435	463	447	455
31	436	431	433	---	---	---	439	426	433	456	447	452
MONTH	436	324	408	471	326	440	464	352	438	529	395	445

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	457	449	453	400	368	389	373	347	363	390	360	370
2	460	443	453	397	358	382	374	348	363	379	362	372
3	454	432	445	396	370	385	353	160	299	385	357	369
4	452	434	443	390	355	375	270	156	215	357	338	344
5	451	431	441	355	325	342	330	270	306	366	346	359
6	446	428	437	346	325	334	350	330	341	370	350	365
7	437	418	430	366	346	352	359	350	353	372	359	367
8	434	412	426	372	353	364	372	346	354	380	362	371
9	431	412	423	377	349	367	355	339	347	378	363	372
10	424	407	419	382	365	374	352	333	346	375	360	368
11	423	411	419	370	216	257	365	337	351	364	359	362
12	420	400	413	323	257	294	349	289	324	371	364	368
13	400	313	362	348	323	336	332	289	308	372	366	370
14	322	287	303	362	348	356	347	332	341	373	368	371
15	348	294	322	371	362	366	363	347	355	373	367	370
16	377	348	363	373	358	369	369	359	364	373	365	369
17	387	377	383	374	361	368	378	362	370	374	366	370
18	395	379	386	376	366	372	380	372	375	377	366	371
19	395	304	372	376	170	324	381	352	371	373	359	367
20	339	300	314	268	155	202	380	366	373	370	361	366
21	375	339	359	327	268	303	382	369	375	371	366	369
22	394	375	384	350	327	340	380	357	372	370	365	368
23	402	391	395	360	350	354	378	361	371	367	323	346
24	405	394	400	364	357	361	379	317	345	356	327	339
25	407	388	400	368	352	362	317	238	262	356	210	259
26	409	367	397	352	328	341	344	262	308	355	283	323
27	408	380	392	342	326	333	365	344	357	364	355	361
28	400	384	393	344	323	332	380	361	367	384	362	372
29	401	376	392	363	344	354	374	369	372	396	384	391
30	---	---	---	363	329	345	376	364	371	405	396	400
31	---	---	---	371	348	362	---	---	---	408	401	405
MONTH	460	287	397	400	155	345	382	156	344	408	210	364
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	409	400	405	371	366	368	366	350	360	358	344	354
2	405	394	401	366	361	364	387	347	366	357	295	349
3	401	387	396	362	357	360	390	356	372	347	336	339
4	400	386	394	359	356	357	359	338	349	351	331	345
5	401	388	394	360	355	357	350	338	347	352	332	340
6	398	386	392	360	223	334	362	347	355	360	352	357
7	397	383	389	305	223	257	361	346	352	368	360	366
8	392	379	386	328	241	287	362	334	345	377	368	374
9	387	367	379	361	328	347	345	259	330	382	375	379
10	380	369	375	374	361	367	314	279	298	381	375	378
11	378	366	372	372	360	367	323	296	314	377	369	374
12	373	362	367	365	349	357	333	321	328	372	180	298
13	374	365	370	358	351	354	330	324	327	324	297	313
14	372	365	368	359	338	350	331	325	328	319	308	311
15	377	369	373	349	331	340	342	326	333	357	319	343
16	374	369	371	339	327	332	346	337	339	371	348	366
17	371	338	361	344	330	336	351	338	344	388	371	381
18	355	321	346	336	319	333	353	345	348	390	387	388
19	382	335	363	346	323	334	357	344	351	392	386	389
20	393	382	387	353	343	347	356	347	352	403	388	391
21	391	369	383	356	344	350	359	350	354	408	389	392
22	380	346	370	353	346	348	360	348	354	402	373	388
23	346	328	335	354	342	346	359	340	351	405	380	390
24	343	329	338	357	332	345	354	330	348	414	352	383
25	345	335	340	352	330	339	366	348	356	372	334	349
26	339	334	337	349	330	338	372	365	369	356	336	351
27	338	286	321	344	325	334	377	270	354	373	356	368
28	340	294	321	346	325	337	363	347	355	375	359	371
29	381	340	370	347	339	344	367	361	364	382	366	374
30	385	371	380	357	321	348	364	355	360	396	380	389
31	---	---	---	359	346	353	359	332	354	---	---	---
MONTH	409	286	370	374	223	343	390	259	347	414	180	363

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.1	8.0	7.6	7.5	7.9	7.7	8.0	7.9	7.9	7.7	8.3	7.8
2	8.1	7.9	7.7	7.5	8.0	7.8	8.0	7.8	8.0	7.7	8.4	7.8
3	7.9	7.7	7.7	7.5	7.9	7.8	7.8	7.6	8.1	7.7	8.3	7.8
4	7.8	7.6	7.9	7.6	7.8	7.7	7.6	7.5	8.0	7.7	8.3	7.6
5	7.8	7.6	8.0	7.9	7.7	7.6	7.8	7.5	8.0	7.6	7.9	7.6
6	7.8	7.6	8.0	7.9	7.7	7.6	8.1	7.7	8.0	7.6	8.1	7.5
7	7.8	7.6	8.0	7.9	7.8	7.7	8.1	7.9	8.1	7.6	8.4	7.8
8	7.8	7.6	8.1	8.0	7.7	7.6	8.1	7.9	8.0	7.7	8.4	7.8
9	7.6	7.4	8.1	7.9	7.7	7.6	8.0	7.8	8.0	7.6	8.4	7.8
10	7.5	7.4	8.1	8.0	7.6	7.3	8.1	7.7	7.9	7.6	8.1	7.7
11	7.5	7.4	8.1	8.0	7.5	7.3	8.0	7.8	7.8	7.6	7.8	7.5
12	7.6	7.4	8.1	7.9	7.7	7.4	8.0	7.8	7.7	7.6	7.9	7.7
13	7.6	7.5	8.1	7.9	7.4	7.3	8.0	7.7	7.7	7.5	8.1	7.9
14	7.6	7.5	8.1	7.9	7.5	7.4	8.0	7.7	7.6	7.5	8.2	8.0
15	7.7	7.6	8.0	7.8	7.4	7.4	8.1	7.7	7.6	7.5	8.2	8.0
16	7.7	7.6	8.0	7.8	7.6	7.4	7.9	7.8	7.8	7.6	8.1	7.9
17	7.7	7.6	8.0	7.9	7.6	7.5	8.0	7.8	7.9	7.7	8.1	7.9
18	7.7	7.6	8.0	7.9	7.6	7.5	7.9	7.8	7.8	7.6	8.2	7.9
19	7.7	7.6	8.0	7.9	7.6	7.5	8.0	7.8	7.8	7.6	7.9	7.5
20	7.8	7.7	7.9	7.8	7.6	7.5	8.0	7.8	7.8	7.6	7.5	7.4
21	7.8	7.7	7.8	7.7	7.7	7.5	8.0	7.7	8.0	7.8	7.7	7.5
22	7.8	7.7	7.8	7.7	7.8	7.6	7.9	7.7	8.1	7.9	7.8	7.6
23	7.9	7.8	7.8	7.7	7.9	7.6	7.8	7.7	8.2	7.9	7.9	7.7
24	7.9	7.8	7.7	7.7	8.0	7.8	7.9	7.6	8.2	7.9	8.0	7.6
25	7.9	7.8	7.7	7.6	8.2	7.9	7.9	7.8	8.3	7.8	7.9	7.6
26	7.9	7.8	7.8	7.6	8.3	8.1	8.1	7.8	8.4	7.8	7.9	7.5
27	7.9	7.8	7.7	7.6	8.4	8.1	8.1	7.9	8.2	7.8	8.1	7.5
28	7.9	7.7	7.8	7.7	8.2	8.0	8.1	7.9	8.4	7.8	8.1	7.6
29	7.8	7.7	7.9	7.7	8.2	8.0	7.9	7.7	8.3	7.8	8.1	7.7
30	7.8	7.6	7.9	7.8	8.2	8.0	7.8	7.6	---	---	8.0	7.7
31	7.7	7.6	---	---	8.2	7.9	7.9	7.7	---	---	8.4	7.7
MONTH	8.1	7.4	8.1	7.5	8.4	7.3	8.1	7.5	8.4	7.5	8.4	7.4
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.4	7.8	8.2	7.8	8.0	7.7	7.7	7.5	7.7	7.4	7.9	7.6
2	8.1	7.7	8.2	7.8	8.1	7.7	7.7	7.5	7.7	7.5	7.8	7.5
3	7.7	7.3	8.1	7.7	8.1	7.7	7.7	7.5	8.2	7.6	7.8	7.4
4	7.6	7.2	8.0	7.7	8.1	7.8	7.7	7.4	8.2	7.6	7.8	7.5
5	7.8	7.6	8.1	7.8	8.2	7.8	7.7	7.5	8.1	7.6	7.8	7.4
6	8.0	7.7	8.1	7.8	8.1	7.9	7.8	7.5	8.2	7.6	8.0	7.7
7	8.1	7.8	8.1	7.8	8.0	7.8	7.6	7.4	8.0	7.7	7.9	7.6
8	8.0	7.8	8.1	7.8	8.0	7.8	7.7	7.4	7.8	7.5	7.8	7.6
9	8.2	7.8	8.2	7.9	7.9	7.7	8.0	7.6	7.8	7.5	7.9	7.7
10	8.4	7.9	8.2	7.9	7.8	7.6	7.9	7.6	7.6	7.4	8.0	7.7
11	8.1	7.9	8.1	7.8	7.8	7.6	8.1	7.6	7.7	7.3	7.8	7.5
12	8.1	7.8	8.2	7.8	7.8	7.5	7.9	7.6	7.8	7.4	7.9	7.5
13	8.0	7.9	8.1	7.8	7.8	7.6	8.0	7.6	7.8	7.5	7.6	7.4
14	8.2	7.9	8.1	7.8	7.7	7.5	8.1	7.6	8.1	7.5	7.4	7.2
15	8.1	7.9	8.0	7.8	7.7	7.5	8.0	7.6	8.1	7.9	7.8	7.6
16	8.4	7.9	8.0	7.7	7.7	7.5	8.0	7.6	8.1	7.9	7.9	7.7
17	8.1	7.9	8.0	7.8	7.6	7.4	7.9	7.6	8.2	7.8	7.9	7.8
18	8.3	7.9	8.0	7.7	7.5	7.3	7.8	7.6	8.0	7.8	7.9	7.7
19	8.4	7.8	7.9	7.7	7.4	7.2	7.9	7.5	8.1	7.8	7.8	7.7
20	8.2	7.7	7.9	7.7	7.6	7.2	7.9	7.6	8.0	7.8	7.8	7.7
21	7.9	7.7	7.9	7.7	7.6	7.4	7.8	7.5	8.1	7.8	7.8	7.7
22	8.3	7.8	7.9	7.7	7.7	7.4	7.8	7.5	8.2	7.9	7.7	7.6
23	8.2	7.8	7.9	7.7	7.6	7.3	7.9	7.6	8.1	7.7	7.6	7.5
24	7.8	7.6	7.9	7.6	7.7	7.4	8.1	7.6	8.0	7.7	7.6	7.5
25	7.6	7.4	7.8	7.3	7.6	7.4	8.1	7.6	7.9	7.7	7.5	7.4
26	7.6	7.5	7.5	7.3	7.6	7.4	8.1	7.6	7.9	7.7	7.6	7.4
27	7.8	7.5	7.7	7.5	7.5	7.4	8.0	7.6	7.7	7.6	7.6	7.5
28	7.8	7.6	7.7	7.5	7.5	7.3	7.8	7.5	7.7	7.5	7.7	7.5
29	8.0	7.7	7.8	7.6	7.7	7.4	7.6	7.4	7.9	7.5	7.7	7.6
30	8.2	7.8	7.9	7.7	7.7	7.5	7.6	7.4	7.9	7.6	7.7	7.5
31	---	---	8.0	7.7	---	---	7.6	7.4	7.9	7.6	---	---
MONTH	8.4	7.2	8.2	7.3	8.2	7.2	8.1	7.4	8.2	7.3	8.0	7.2

CUMBERLAND RIVER BASIN

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03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.0	17.4	18.7	17.1	15.7	16.6	7.9	6.3	7.1	9.0	7.8	8.4
2	21.0	17.3	19.0	16.7	14.0	15.9	8.1	6.2	7.2	10.6	8.9	9.6
3	21.2	18.0	19.6	14.0	11.9	12.7	9.2	8.0	8.6	13.7	10.6	12.0
4	20.4	18.4	19.6	12.4	10.5	11.6	11.6	9.2	10.5	13.7	10.2	12.0
5	19.4	17.2	18.0	13.3	11.3	12.4	12.1	11.6	11.7	10.2	8.4	9.3
6	19.0	15.3	17.1	14.6	12.8	13.8	11.6	8.9	10.5	8.8	6.9	8.0
7	19.6	15.4	17.5	15.4	13.6	14.6	8.9	7.1	7.7	8.1	6.6	7.4
8	21.3	17.4	19.2	16.8	14.9	15.9	8.1	6.6	7.4	7.2	6.5	6.9
9	20.2	19.5	19.8	17.5	15.7	16.5	11.1	8.1	9.6	9.8	7.2	8.5
10	22.0	20.0	20.8	17.2	15.6	16.4	11.7	10.6	11.4	10.6	8.9	9.6
11	21.5	19.8	20.8	17.0	15.2	16.1	10.6	8.9	9.8	10.8	9.2	9.8
12	22.4	20.0	21.2	15.7	14.1	14.8	11.3	9.6	10.4	10.2	8.4	9.4
13	22.9	21.3	21.9	15.5	13.1	14.2	11.9	11.2	11.5	10.9	9.1	10.2
14	21.7	19.0	20.5	16.4	13.8	14.9	12.2	11.4	11.7	9.1	7.4	8.2
15	20.3	17.4	18.8	14.6	12.4	13.7	11.6	10.1	11.0	8.4	6.5	7.5
16	21.0	18.0	19.4	12.5	10.6	11.5	10.2	8.9	9.6	8.4	8.0	8.2
17	19.5	18.2	18.9	11.1	9.1	10.0	9.6	8.3	8.9	8.7	7.7	8.3
18	18.3	16.3	17.3	11.0	8.4	9.6	9.7	7.9	8.9	9.1	8.1	8.8
19	16.7	14.9	15.8	12.0	9.2	10.6	10.1	9.1	9.6	8.7	7.5	8.2
20	16.0	13.5	14.6	13.6	11.8	12.7	10.8	9.6	10.3	8.6	5.9	7.6
21	15.5	12.6	14.1	15.0	13.2	14.0	9.6	7.3	8.3	5.9	4.3	5.2
22	16.1	13.1	14.4	15.6	13.6	14.4	7.3	5.9	6.6	5.2	4.0	4.5
23	14.4	12.8	13.6	15.9	13.4	14.6	6.7	5.3	6.0	5.3	4.3	4.9
24	13.5	11.3	12.3	15.0	13.5	14.4	5.9	4.5	5.4	5.2	3.9	4.6
25	12.9	10.0	11.4	13.5	12.1	12.7	4.5	2.9	3.7	3.9	2.7	3.2
26	13.8	10.2	11.9	12.8	11.8	12.3	5.2	2.9	4.1	3.5	1.6	2.6
27	14.8	11.2	12.9	11.8	10.1	11.1	5.2	3.4	4.3	3.1	1.1	2.2
28	15.8	12.1	13.8	12.0	10.4	11.3	5.0	4.1	4.6	3.2	2.2	2.7
29	16.7	13.0	14.7	11.7	10.0	10.6	5.9	4.6	5.2	4.4	3.2	3.7
30	16.9	13.5	15.2	10.0	7.9	8.5	6.6	4.8	5.7	4.9	4.4	4.6
31	18.1	14.5	16.3	---	---	---	7.9	6.1	6.9	5.4	4.2	4.7
MONTH	22.9	10.0	17.1	17.5	7.9	13.3	12.2	2.9	8.2	13.7	1.1	7.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.8	3.9	4.3	16.8	13.4	14.8	17.4	14.1	15.6	19.4	16.5	17.8
2	5.6	2.9	4.1	15.9	12.8	14.3	17.3	16.0	16.6	20.6	17.9	19.1
3	6.3	3.0	4.6	14.7	12.6	13.7	17.0	14.9	16.1	21.1	18.9	19.8
4	5.7	4.1	4.9	14.1	12.0	12.9	14.9	13.0	13.7	21.0	19.1	20.0
5	6.2	4.0	5.1	13.4	11.1	12.2	13.9	12.1	13.1	22.8	19.5	20.9
6	6.1	3.7	4.9	13.9	11.1	12.3	16.0	13.4	14.6	24.0	20.0	21.8
7	7.5	4.8	6.0	15.5	12.0	13.4	17.8	15.5	16.5	24.7	20.8	22.6
8	8.1	5.5	6.7	17.0	12.9	14.7	17.0	13.5	15.3	25.5	21.8	23.5
9	8.9	6.0	7.4	18.7	14.8	16.5	14.6	11.9	13.2	25.1	22.2	23.7
10	9.8	7.4	8.6	17.2	15.0	16.2	15.0	12.6	13.8	24.6	22.0	23.3
11	10.1	9.3	9.7	16.1	12.6	13.8	14.2	14.0	14.1	24.3	20.8	22.6
12	9.3	8.6	8.9	12.6	11.2	11.8	14.9	13.6	14.2	24.9	22.8	23.8
13	10.7	8.7	9.4	12.9	10.5	11.6	14.3	13.6	13.8	25.1	23.1	23.9
14	11.3	10.5	11.0	13.5	10.9	12.2	15.3	13.5	14.3	23.8	20.8	22.3
15	11.1	9.8	10.5	14.3	12.3	13.3	15.9	15.1	15.4	21.9	19.5	20.8
16	12.6	10.8	11.5	14.9	13.5	14.2	17.4	14.9	16.1	23.0	19.1	21.0
17	11.6	10.7	11.1	15.0	13.1	13.8	16.7	15.8	16.4	23.4	20.5	21.9
18	13.8	11.2	12.5	14.4	12.3	13.3	15.8	14.8	15.5	25.6	21.7	23.6
19	13.4	11.4	12.6	13.1	11.1	12.6	18.5	14.1	16.0	24.9	23.4	24.2
20	11.4	9.9	10.7	12.0	11.1	11.5	18.7	16.3	17.5	24.1	22.1	22.9
21	11.4	9.0	10.0	13.7	11.9	12.8	17.7	15.3	16.5	22.4	20.9	21.6
22	12.2	10.2	11.1	15.2	13.1	14.1	18.2	14.4	16.0	23.7	20.2	21.9
23	13.5	10.9	12.1	16.7	13.9	15.3	17.3	15.0	16.1	23.7	21.8	22.8
24	14.8	12.2	13.4	17.5	14.9	16.2	16.3	14.8	15.7	24.3	22.1	23.2
25	16.5	13.0	14.6	18.0	16.2	17.0	15.6	14.1	14.8	23.9	21.0	21.9
26	17.3	14.3	15.7	18.0	16.3	17.0	16.9	15.1	16.0	21.5	20.2	20.9
27	16.3	14.5	15.5	17.8	16.1	16.7	17.3	15.3	16.3	24.1	20.4	22.0
28	16.0	13.2	14.3	16.8	14.8	15.6	17.5	15.8	16.5	23.9	21.3	22.4
29	15.7	12.3	13.8	14.8	13.2	13.9	16.9	15.4	16.1	22.1	20.5	21.2
30	---	---	---	14.1	12.8	13.4	18.8	15.4	16.8	23.6	19.4	21.4
31	---	---	---	16.4	12.7	14.3	---	---	---	24.9	21.1	22.9
MONTH	17.3	2.9	9.8	18.7	10.5	14.0	18.8	11.9	15.4	25.6	16.5	22.0

CUMBERLAND RIVER BASIN

03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.2	22.3	24.1	27.5	24.3	26.0	27.0	25.8	26.4	29.1	26.6	27.8
2	26.6	23.4	25.0	28.6	24.9	26.7	26.3	25.0	25.8	29.2	26.6	27.6
3	26.0	24.2	25.1	29.5	26.0	27.7	27.6	24.8	26.1	28.1	25.9	27.1
4	25.0	23.1	24.1	30.1	27.2	28.5	28.4	25.4	26.9	28.3	26.2	27.1
5	24.7	23.1	24.0	28.8	27.4	28.1	28.0	26.3	27.1	26.8	24.5	25.7
6	23.8	21.5	22.8	29.1	26.2	27.4	29.4	26.4	27.8	26.4	23.2	24.7
7	24.0	20.2	22.2	26.2	24.5	25.3	29.9	27.7	28.7	24.9	24.0	24.4
8	25.1	21.2	23.3	27.1	24.0	25.5	28.9	27.6	28.2	25.8	23.6	24.6
9	26.6	22.8	24.8	29.1	25.3	27.1	30.2	26.9	28.2	25.5	24.1	24.8
10	27.6	24.4	26.1	29.0	26.2	27.7	28.7	26.7	27.7	27.5	24.2	25.6
11	28.4	25.4	27.0	29.6	27.1	28.4	28.0	26.2	27.2	27.4	24.7	26.0
12	28.8	26.1	27.6	29.7	27.9	28.8	27.5	24.9	26.4	26.2	22.8	24.2
13	28.3	26.2	27.4	29.4	27.1	28.3	27.1	24.4	25.9	25.1	23.0	23.8
14	28.6	26.4	27.4	30.5	27.4	29.0	27.5	24.5	26.1	25.8	22.9	24.3
15	28.0	26.4	27.0	30.6	27.7	29.1	28.4	25.0	26.7	25.2	22.8	23.7
16	27.8	25.9	26.8	29.8	26.9	28.3	30.0	26.3	28.0	22.8	19.9	21.1
17	27.7	26.0	26.6	28.5	26.2	27.4	30.9	27.5	29.0	21.2	18.6	20.1
18	26.1	24.9	25.5	27.8	26.3	26.9	29.1	27.6	28.3	22.0	19.3	20.7
19	26.3	24.5	25.3	29.4	26.2	27.7	28.7	25.5	27.0	23.1	20.0	21.5
20	28.4	25.4	26.8	28.9	26.3	27.5	26.9	24.8	25.6	24.2	21.5	22.7
21	28.1	26.5	27.4	27.9	26.0	27.0	27.6	23.6	25.6	23.9	21.8	22.8
22	29.2	26.1	27.6	29.2	25.8	27.3	28.2	24.5	26.3	23.0	21.6	22.5
23	29.2	25.7	27.6	26.9	24.7	26.0	28.8	25.3	26.8	23.0	22.1	22.2
24	29.6	26.4	28.1	27.3	23.5	25.2	27.4	25.5	26.5	22.9	22.4	22.6
25	29.4	27.3	28.3	28.3	23.7	25.8	28.3	24.9	26.4	22.4	20.0	21.7
26	28.9	26.9	27.9	28.4	24.4	26.3	26.2	24.8	25.3	20.0	18.4	19.2
27	27.8	26.0	26.8	29.7	25.3	27.4	25.1	22.9	24.3	19.5	16.9	18.3
28	26.1	24.5	25.2	29.3	26.1	27.5	25.8	23.8	24.8	19.7	17.4	18.7
29	26.5	23.6	25.1	28.7	26.0	27.1	28.2	24.9	26.5	20.1	18.1	19.2
30	26.6	23.8	25.3	27.9	25.6	26.5	29.3	26.7	28.0	20.4	18.3	19.4
31	---	---	---	28.5	25.3	26.7	29.2	26.6	27.8	---	---	---
MONTH	29.6	20.2	25.9	30.6	23.5	27.2	30.9	22.9	26.8	29.2	16.9	23.1

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.5	9.1	10.1	7.3	4.4	5.9	14.2	12.1	13.3	14.9	11.6	13.3
2	11.8	8.8	10.0	8.7	6.2	7.7	14.9	11.9	13.3	14.0	11.7	12.9
3	11.4	8.2	9.6	9.8	7.0	8.5	13.6	11.2	12.5	13.0	10.7	11.8
4	10.0	7.6	8.5	9.2	7.9	8.7	12.8	10.0	11.4	12.0	10.2	11.2
5	10.3	6.7	8.3	7.9	5.6	6.7	11.0	8.8	9.5	14.9	10.1	12.5
6	10.7	7.4	8.8	7.8	6.3	7.2	10.4	8.2	9.4	15.2	11.7	13.2
7	9.6	7.5	8.4	8.1	6.5	7.4	12.8	10.3	11.6	15.8	12.2	13.7
8	9.6	6.9	7.9	8.2	6.9	7.6	13.7	11.9	12.8	15.3	12.7	13.8
9	7.3	6.5	6.8	8.3	7.0	7.7	13.6	11.7	12.6	14.7	11.9	13.1
10	8.0	5.9	6.8	---	---	---	11.9	9.0	10.1	13.5	11.6	12.2
11	7.9	5.5	6.8	---	---	---	11.9	9.0	10.3	13.7	11.5	12.2
12	8.4	6.1	7.3	10.9	7.8	9.3	11.7	---	---	13.6	11.6	12.3
13	8.1	6.4	7.3	10.1	7.6	8.5	---	9.7	---	14.0	11.2	12.3
14	8.1	5.1	7.0	9.6	7.4	8.2	10.5	10.2	10.3	15.1	11.8	13.1
15	8.9	6.8	7.7	9.2	7.5	8.2	10.6	10.2	10.5	15.7	12.5	13.7
16	9.0	7.1	7.8	9.8	8.2	9.1	11.8	10.6	11.2	13.4	12.2	12.7
17	7.9	6.4	7.1	10.7	9.8	10.3	12.6	11.2	11.7	15.1	12.1	13.2
18	8.5	6.0	7.1	11.3	10.1	10.8	13.0	11.4	11.9	13.4	11.7	12.4
19	8.9	6.9	7.7	11.5	9.8	10.5	12.5	11.0	11.5	14.8	12.0	13.0
20	9.8	7.6	8.7	10.5	8.6	9.8	12.1	10.4	11.1	14.7	11.8	13.0
21	10.3	8.4	9.2	9.0	7.4	8.2	13.1	10.8	11.8	15.8	12.9	14.1
22	10.3	8.4	9.3	9.0	7.2	8.0	15.0	11.8	13.2	14.7	13.2	13.9
23	10.1	8.5	9.2	9.6	7.3	8.3	15.2	12.8	13.9	15.0	13.3	14.0
24	10.8	9.0	9.8	8.0	7.0	7.6	15.2	13.6	14.4	16.1	13.3	14.4
25	11.5	9.5	10.3	8.0	6.5	7.1	16.7	14.2	15.4	15.6	13.8	14.6
26	11.8	9.8	10.5	11.0	8.0	9.5	16.5	14.5	15.5	16.3	14.0	15.0
27	11.4	9.2	10.0	11.3	8.9	10.1	16.2	13.8	15.1	16.4	14.2	15.1
28	11.2	8.7	9.6	12.3	9.0	10.8	15.7	12.8	14.3	16.2	14.3	15.1
29	10.3	7.4	8.8	12.8	9.6	11.4	---	12.8	---	14.7	13.6	14.2
30	9.7	6.9	8.0	14.1	9.8	12.3	16.4	---	---	14.6	13.2	13.8
31	8.7	5.4	6.8	---	---	---	15.5	12.4	14.1	15.4	13.4	14.2
MONTH	11.8	5.1	8.4	14.1	4.4	8.8	16.7	8.2	12.3	16.4	10.1	13.4

CUMBERLAND RIVER BASIN

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03428200 WEST FORK STONES RIVER AT MURFREESBORO, TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	15.1	13.4	14.1	16.5	9.1	11.5	12.0	7.5	9.3	13.3	9.2	10.8
2	16.1	13.4	14.4	16.7	8.9	11.8	10.5	7.4	8.5	13.2	8.8	10.5
3	16.3	13.3	14.4	14.8	8.8	10.8	9.3	8.0	8.8	12.9	8.5	10.3
4	16.0	13.0	14.1	15.0	8.6	10.8	10.5	8.9	9.8	11.4	8.2	9.5
5	17.1	12.2	14.2	---	---	---	11.6	10.4	10.9	12.4	8.5	9.9
6	17.4	12.6	14.5	14.0	---	---	12.0	10.2	10.9	12.2	8.0	9.6
7	17.0	12.5	14.3	14.9	10.7	12.2	12.2	9.9	10.7	12.3	8.3	9.7
8	16.8	12.2	14.1	15.1	10.3	12.0	11.6	9.7	10.6	12.4	7.7	9.8
9	16.1	11.8	13.7	15.1	9.2	11.5	13.3	10.2	11.5	11.7	7.7	9.2
10	15.1	11.3	13.0	13.1	8.7	10.3	12.9	9.9	11.1	11.7	7.2	9.1
11	13.7	10.5	12.1	11.1	10.1	10.6	11.6	9.7	10.6	10.5	7.3	8.7
12	12.5	10.6	11.2	12.2	11.1	11.7	12.2	10.1	11.1	11.2	6.7	8.6
13	11.4	10.6	11.2	13.2	11.4	12.1	11.5	10.8	11.1	11.2	7.0	8.7
14	10.9	10.4	10.6	13.6	10.8	11.9	12.7	10.7	11.4	11.1	7.1	8.7
15	11.4	10.8	11.1	13.4	10.2	11.5	12.5	10.4	11.2	11.2	7.4	9.1
16	11.7	10.6	11.0	11.8	9.7	10.5	14.3	10.0	11.7	11.4	7.7	9.3
17	12.5	10.5	11.2	13.3	9.6	10.9	12.0	9.4	10.5	9.4	6.6	7.9
18	11.8	10.0	10.7	14.1	10.4	11.7	14.0	9.6	11.2	9.2	6.0	7.4
19	10.8	9.9	10.4	10.9	10.1	10.5	17.0	9.7	12.3	8.1	5.5	6.7
20	11.6	10.8	11.2	11.0	10.5	10.8	13.5	8.7	10.6	7.7	5.4	6.6
21	13.1	11.2	11.9	11.5	10.5	11.1	10.4	7.8	9.0	8.4	5.4	6.8
22	13.2	10.9	11.7	11.9	10.1	10.8	15.0	8.8	11.1	9.4	6.1	7.7
23	13.8	10.4	11.6	12.3	9.5	10.7	13.2	8.4	10.3	8.6	6.1	7.4
24	13.7	10.0	11.3	12.9	9.0	10.5	9.3	7.9	8.6	8.5	6.0	7.2
25	14.7	9.6	11.3	12.5	8.6	9.9	9.7	9.2	9.5	7.7	6.3	7.3
26	15.2	9.0	11.1	12.0	8.4	9.6	10.0	9.0	9.4	8.0	6.8	7.4
27	13.3	8.6	10.4	13.1	8.4	9.8	11.1	9.1	9.8	9.2	7.0	7.8
28	15.4	9.1	11.3	13.2	8.5	10.2	11.2	9.0	9.9	9.6	6.9	7.9
29	16.3	9.7	11.8	12.2	9.1	10.3	12.0	9.3	10.3	9.9	7.4	8.4
30	---	---	---	12.3	8.9	10.1	13.4	9.5	10.9	11.1	7.8	9.1
31	---	---	---	13.2	8.1	10.2	---	---	---	11.1	7.2	8.8
MONTH	17.4	8.6	12.2	16.7	8.1	10.9	17.0	7.4	10.4	13.3	5.4	8.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	11.3	6.8	8.5	8.4	5.5	7.1	7.1	5.6	6.4	11.8	7.6	9.8
2	12.2	7.0	9.2	8.2	5.4	6.8	7.7	5.0	6.4	11.7	6.9	9.4
3	12.2	6.9	9.2	8.4	5.4	6.8	11.3	5.3	8.0	11.6	7.1	9.2
4	11.6	6.8	9.1	7.9	5.0	6.4	11.2	5.1	8.0	10.9	6.5	8.8
5	11.0	7.0	8.9	7.3	4.9	6.0	9.4	4.9	7.3	8.9	5.9	7.4
6	11.1	6.9	8.8	7.6	4.6	6.0	10.5	4.8	7.6	10.3	5.8	8.1
7	10.8	6.7	8.7	7.4	6.0	6.8	8.9	5.0	7.2	8.9	6.6	7.6
8	10.5	6.2	8.4	9.0	6.2	7.4	7.2	4.5	6.0	9.8	5.4	7.6
9	10.3	5.9	8.2	11.1	6.3	8.3	7.8	4.3	6.0	9.1	5.6	7.3
10	9.7	6.0	8.0	10.6	5.6	8.3	7.5	4.4	5.6	9.8	5.2	7.4
11	---	5.9	---	11.2	5.9	8.4	8.4	3.2	5.6	9.7	6.1	8.0
12	---	---	---	9.2	6.0	7.8	9.1	4.4	6.8	8.0	5.7	7.1
13	---	---	---	10.5	5.5	7.9	8.8	5.1	7.1	7.9	5.9	6.6
14	---	---	---	11.4	5.9	8.6	9.7	5.5	7.6	8.4	5.4	6.6
15	---	---	---	10.9	6.1	8.5	10.2	7.2	8.6	7.9	4.8	6.4
16	---	---	---	10.5	5.9	8.1	10.8	7.5	8.9	8.7	5.6	7.3
17	---	---	---	9.6	5.8	7.8	10.7	7.0	8.8	8.2	6.8	7.6
18	---	---	---	8.2	5.4	6.7	9.9	7.0	8.2	8.3	6.4	7.8
19	---	---	---	9.1	4.5	6.6	10.9	7.0	8.7	8.6	6.8	7.6
20	9.5	---	---	9.0	5.0	6.8	10.9	7.7	9.0	8.3	6.7	7.4
21	8.4	5.6	7.1	8.9	4.9	6.8	12.1	7.6	9.5	8.6	6.4	7.3
22	10.2	5.3	7.3	9.7	5.8	7.6	11.2	8.1	9.9	7.8	6.7	7.2
23	9.0	4.5	6.7	9.9	6.0	7.6	11.7	8.0	9.9	7.3	6.4	6.8
24	9.0	4.9	7.1	11.9	6.4	8.8	11.2	7.8	9.5	7.4	6.0	6.8
25	8.0	5.2	6.7	12.0	6.5	9.0	11.9	7.3	9.5	7.7	6.7	7.2
26	7.8	5.0	6.3	11.9	6.6	9.0	10.8	7.6	9.4	10.1	6.9	8.5
27	6.4	4.9	5.8	10.9	6.3	8.4	10.7	5.1	8.6	10.5	7.9	9.2
28	7.8	5.1	6.3	9.0	5.3	7.1	11.5	7.2	9.4	10.6	8.0	9.4
29	9.0	5.2	7.0	7.8	5.0	6.1	12.1	7.5	9.9	10.6	8.5	9.7
30	8.7	5.4	7.2	7.5	4.4	5.8	11.9	8.2	9.9	10.8	9.0	10.1
31	---	---	---	8.2	4.3	6.4	11.9	8.6	10.0	---	---	---
MONTH	12.2	4.5	7.7	12.0	4.3	7.4	12.1	3.2	8.2	11.8	4.8	7.9

CUMBERLAND RIVER BASIN

03430147 STONERS CREEK NEAR HERMITAGE, TN

LOCATION.--Lat 36°11'40", long 86°36'28", Davidson County, Hydrologic Unit 05130203, on downstream end of pier at center of culvert under Andrew Jackson Parkway, 0.8 mi southwest of Hermitage.

DRAINAGE AREA.--20.6 mi².

PERIOD OF RECORD.--January 1992 to current year.

GAGE.--Data logger. Datum of gage is 411.70 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 19	2215	*776	*6.35				

Minimum daily discharge 0.11 ft³/s, Oct. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	2.6	3.9	15	22	11	25	10	1.4	3.6	.50
2	1.0	32	2.4	3.8	14	18	12	20	7.8	1.1	3.5	.42
3	.70	7.7	2.3	19	13	16	53	39	6.5	.97	2.1	.46
4	.60	4.6	2.1	143	12	14	93	57	5.6	.87	2.9	.35
5	.51	3.4	2.9	30	10	13	44	41	5.3	.76	2.4	.34
6	.41	2.7	2.9	20	9.6	12	31	28	4.6	1.0	1.7	.31
7	.34	2.3	2.9	15	9.2	11	24	21	3.8	1.5	1.1	.28
8	.33	2.0	2.6	12	8.6	9.8	34	17	3.6	1.4	.82	.30
9	31	1.8	2.4	69	8.1	9.1	22	14	3.2	.90	.68	.29
10	14	1.8	9.7	39	7.9	8.5	19	18	2.8	.84	.69	.30
11	4.9	1.6	6.6	25	7.9	14	52	12	2.4	.77	.50	.38
12	2.5	1.7	16	18	14	12	69	11	2.0	.72	.37	.37
13	1.6	1.8	108	22	101	9.5	43	10	1.9	.83	.31	.53
14	.91	1.7	53	17	176	8.6	35	8.2	1.7	.57	.25	.50
15	.77	1.6	25	15	56	8.0	28	7.3	1.8	.32	.23	.42
16	.62	1.5	16	13	37	9.6	24	6.7	1.9	.25	.22	.39
17	.51	1.3	12	12	36	11	26	6.1	1.6	.24	.22	.39
18	.47	1.3	10	18	109	8.8	20	5.5	2.0	.25	.29	.36
19	.39	1.3	8.5	17	80	254	18	4.9	2.1	1.1	.41	.35
20	.38	1.9	8.0	15	47	231	16	5.2	2.0	.43	.52	.34
21	.32	1.6	7.0	13	34	82	16	5.5	1.7	.72	.50	.35
22	.27	1.6	6.3	13	27	52	13	4.7	1.3	.37	.47	.81
23	.22	1.5	5.9	13	22	38	12	25	1.0	.30	.43	6.1
24	.21	2.0	5.5	14	20	29	115	9.1	.86	.26	1.2	2.6
25	.15	8.5	5.3	13	17	24	188	242	.71	.22	.37	5.8
26	.15	15	5.1	12	16	19	69	57	.65	.21	.26	3.8
27	.13	7.4	4.9	11	61	20	53	62	3.2	.22	11	1.9
28	.11	4.7	4.6	9.9	35	16	65	31	10	4.3	3.7	1.2
29	.11	3.5	4.4	14	27	14	39	20	3.2	4.4	1.7	.67
30	.13	2.9	4.3	18	---	14	30	15	2.0	11	1.0	.48
31	.39	---	4.1	17	---	12	---	13	---	4.1	.75	---
TOTAL	65.63	124.0	353.3	674.6	1030.3	1019.9	1274	841.2	97.22	42.32	44.19	31.29
MEAN	2.12	4.13	11.4	21.8	35.5	32.9	42.5	27.1	3.24	1.37	1.43	1.04
MAX	31	32	108	143	176	254	188	242	10	11	11	6.1
MIN	.11	1.3	2.1	3.8	7.9	8.0	11	4.7	.65	.21	.22	.28
CFSM	.10	.20	.55	1.06	1.72	1.60	2.06	1.32	.16	.07	.07	.05
IN.	.12	.22	.64	1.22	1.86	1.84	2.30	1.52	.18	.08	.08	.06

03430147 STONERS CREEK NEAR HERMITAGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.08	22.5	36.9	54.6	44.9	70.7	40.6	28.8	29.7	12.8	4.03	4.85
MAX	43.3	53.1	75.6	108	119	149	112	83.6	101	62.0	13.3	11.5
(WY)	1996	1996	1997	1999	1994	1997	1994	1995	1998	1992	1994	1995
MIN	.60	1.12	11.4	21.8	27.5	31.1	10.6	5.24	3.24	1.37	.79	.28
(WY)	1999	1999	2000	2000	1995	1998	1992	1992	2000	2000	1993	1998

SUMMARY STATISTICS

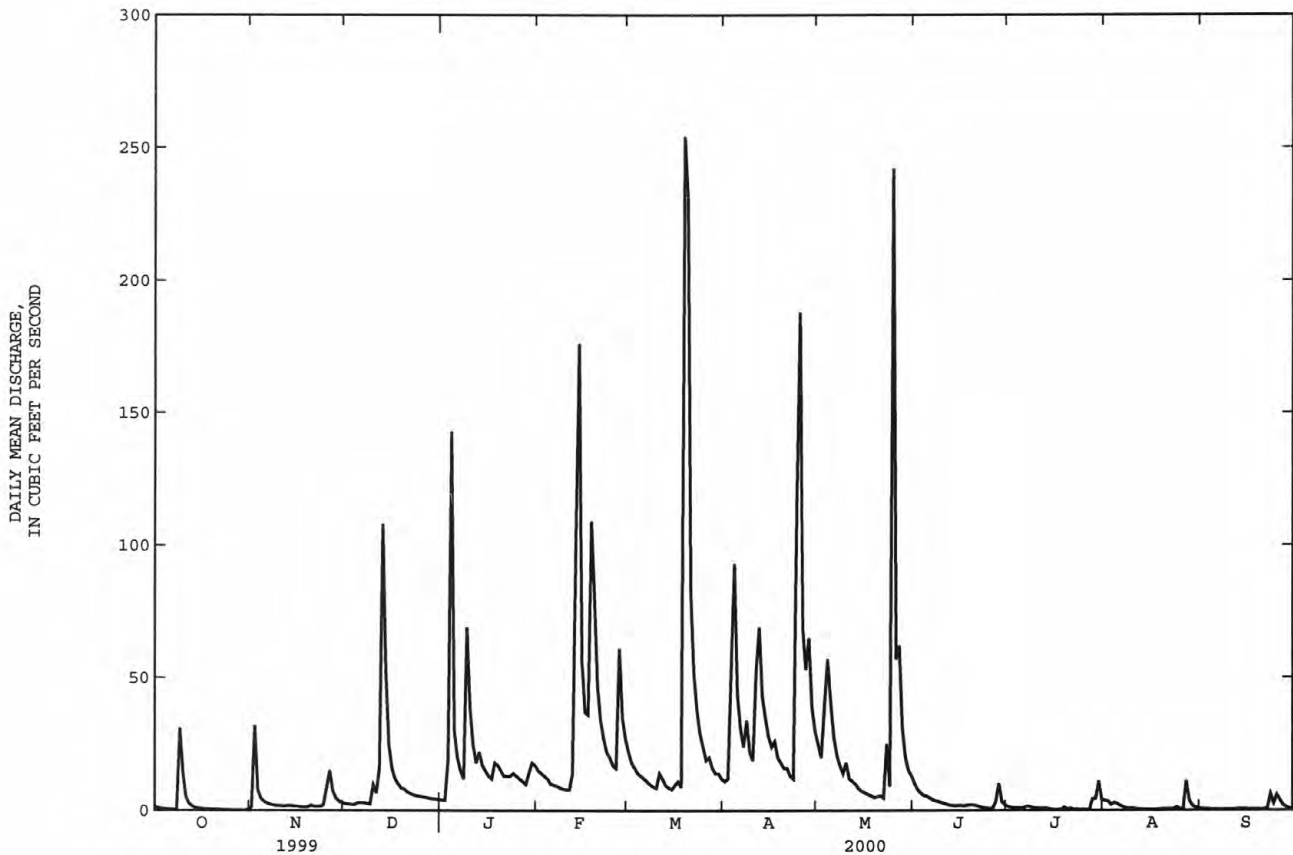
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1992 - 2000

ANNUAL TOTAL	8851.99	5597.95	
ANNUAL MEAN	24.3	15.3	30.4
HIGHEST ANNUAL MEAN			44.2
LOWEST ANNUAL MEAN			15.3
HIGHEST DAILY MEAN	1150	Jan 23	254
LOWEST DAILY MEAN	.04	Sep 5	.11
ANNUAL SEVEN-DAY MINIMUM	.05	Sep 2	.14
INSTANTANEOUS PEAK FLOW			776
INSTANTANEOUS PEAK STAGE			6.35
ANNUAL RUNOFF (CFSM)	1.18		.74
ANNUAL RUNOFF (INCHES)	15.99		10.11
10 PERCENT EXCEEDS	54		36
50 PERCENT EXCEEDS	6.8		4.9
90 PERCENT EXCEEDS	.30		.35

a From rating curve extended above 500 ft³/s on basis of contracted-opening measurement of peak flow.



CUMBERLAND RIVER BASIN

03430550 MILL CREEK NEAR NOLENSVILLE, TN

LOCATION.--Lat 36°00'33", long 86°42'06", Davidson County, Hydrologic Unit 05130202, near left bank on downstream side of bridge on US Highway 31A, 800 ft upstream from Hoit Creek, 0.6 mi upstream from Owl Creek, 4.6 mi northwest of Nolensville, and at mile 19.6.

DRAINAGE AREA.--40.5 mi².

PERIOD OF RECORD.--March 1992 to current year.

REVISED RECORD.--WRD TN-94-1: 1992 (M).

GAGE.--Data logger. Datum of gage is 527.74 ft above sea level.

REMARKS.--No estimated daily discharges. Records good except for the period Oct. 10 to Dec. 9, Sept. 19-30, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 13	2215	4,650	11.97	Mar 19	2130	3,000	10.20
Feb 17	2345	2,740	9.89	May 25	0445	*12,600	*17.88

Minimum daily discharge, 0.14 ft³/s, Oct. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.89	4.3	9.3	35	99	33	107	34	4.4	1.0	1.1
2	1.1	34	4.2	9.7	30	90	36	97	28	3.7	.83	.98
3	1.0	9.9	3.9	99	28	86	259	105	24	3.0	.57	.86
4	.82	6.1	5.2	201	25	82	311	123	21	3.1	.97	.73
5	.60	4.5	14	63	22	76	128	106	19	3.0	1.6	.63
6	.57	3.8	10	42	21	74	86	89	16	3.7	.56	.56
7	.35	3.2	6.3	33	20	71	64	80	14	6.7	.51	.55
8	.27	2.9	5.1	27	19	67	96	73	13	3.2	.71	.58
9	8.4	2.4	6.8	64	18	62	64	67	12	2.4	.95	.52
10	5.4	2.2	42	57	17	59	51	73	11	2.4	1.2	.39
11	3.6	2.4	39	41	17	88	81	62	10	1.9	1.4	.46
12	2.6	2.2	64	33	30	90	118	57	9.1	5.4	.97	.66
13	2.1	1.7	261	43	634	80	88	54	8.3	3.5	1.3	.66
14	1.8	2.0	105	35	458	74	87	49	8.1	2.7	.83	.51
15	1.2	1.6	52	31	139	69	74	46	11	2.7	.62	.36
16	.90	1.6	36	28	90	138	60	45	9.8	2.5	.57	.24
17	.86	1.4	28	26	247	160	78	42	9.9	2.0	.52	.19
18	.83	1.4	23	26	580	114	62	39	14	1.7	.52	.20
19	.70	1.4	20	24	309	811	51	36	14	1.7	.46	.23
20	.65	1.4	18	24	188	606	61	35	14	1.6	.45	.15
21	.50	1.2	16	22	146	250	68	37	13	1.7	.39	.18
22	.41	1.1	15	22	123	159	49	35	14	1.4	.51	.41
23	.37	1.7	14	23	107	117	41	54	13	1.1	.69	.94
24	.37	5.9	13	27	99	89	473	44	8.8	1.0	1.1	2.2
25	.31	22	12	26	92	74	815	3420	5.4	.87	1.2	3.8
26	.36	35	11	24	86	66	265	238	4.9	.64	1.0	2.5
27	.29	21	11	21	166	66	200	224	7.2	.30	4.3	1.7
28	.22	14	11	20	130	51	204	134	13	.99	1.7	1.3
29	.18	8.2	10	30	111	38	148	85	7.8	.75	1.7	.95
30	.14	5.3	10	44	---	40	122	61	5.7	1.7	1.5	.91
31	.39	---	9.4	41	---	36	---	44	---	1.2	1.2	---
TOTAL	39.09	202.39	880.2	1216.0	3987	3982	4273	5761	393.0	72.95	31.83	25.45
MEAN	1.26	6.75	28.4	39.2	137	128	142	186	13.1	2.35	1.03	.85
MAX	8.4	35	261	201	634	811	815	3420	34	6.7	4.3	3.8
MIN	.14	.89	3.9	9.3	17	36	33	35	4.9	.30	.39	.15
CFSM	.03	.17	.70	.97	3.39	3.17	3.51	4.59	.32	.06	.03	.02
IN.	.04	.19	.81	1.12	3.66	3.65	3.92	5.29	.36	.07	.03	.02

CUMBERLAND RIVER BASIN

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03430550 MILL CREEK NEAR NOLENSVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.9	41.1	76.9	125	111	185	84.3	75.5	52.8	20.2	9.49	6.18
MAX	146	122	159	225	263	372	209	190	210	58.8	35.0	16.1
(WY)	1996	1996	1997	1999	1994	1997	1994	1995	1998	1992	1995	1994
MIN	1.18	1.67	28.4	39.2	60.6	81.9	20.3	8.40	5.54	2.35	1.03	.85
(WY)	1994	1999	2000	2000	1995	1998	1992	1992	1999	2000	2000	2000

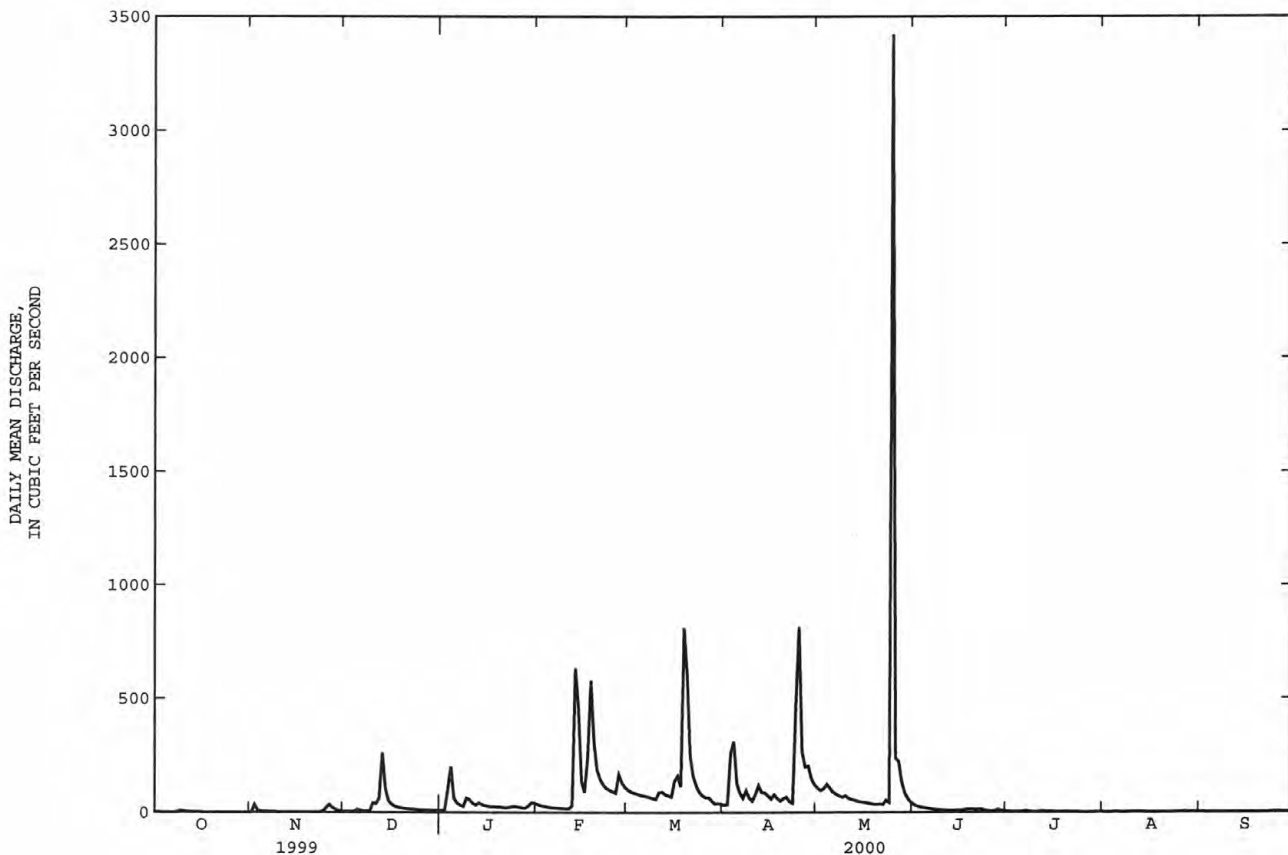
SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1992 - 2000

ANNUAL TOTAL	16861.57	20863.91	
ANNUAL MEAN	46.2	57.0	69.3
HIGHEST ANNUAL MEAN			104
LOWEST ANNUAL MEAN			41.3
HIGHEST DAILY MEAN	2450	Jan 23	3420
LOWEST DAILY MEAN	.14	Oct 30	.14
ANNUAL SEVEN-DAY MINIMUM	.27	Oct 24	.22
INSTANTANEOUS PEAK FLOW			12600
INSTANTANEOUS PEAK STAGE			17.88
ANNUAL RUNOFF (CFSM)	1.14		1.41
ANNUAL RUNOFF (INCHES)	15.48		19.15
10 PERCENT EXCEEDS	93		115
50 PERCENT EXCEEDS	10		13
90 PERCENT EXCEEDS	.70		.57



CUMBERLAND RIVER BASIN

03431060 MILL CREEK AT THOMPSON LANE NEAR WOODBINE, TN

LOCATION.--Lat 36°07'04", long 86°43'08", Davidson County, Hydrologic Unit 05130202, at bridge on Thompson Lane, 1.4 miles west of Arlington Church, 1.5 miles upstream from U.S. Highway 41 and 70S, and 1.6 miles downstream from Sevenmile Creek, and at mile 6.3.

DRAINAGE AREA.--93.4 mi².

PERIOD OF RECORD.--Crest-stage gage July 1964 to September 1996. October 1996 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 432.55 ft above sea level. July 1964 to September 1996, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good, except for Oct. 1 to Nov. 10, Sept. 15 to 23, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0200	5,000	10.23	May 25	1230	*13,300	*15.66

Minimum daily discharge, 0.75 ft³/s, Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	8.1	29	16	67	109	58	128	77	6.0	5.3	4.1
2	2.0	268	29	19	56	91	68	106	62	7.1	13	2.5
3	1.8	48	33	338	51	81	406	132	52	7.8	7.1	2.2
4	1.8	20	36	864	46	76	744	178	45	10	16	3.7
5	1.5	9.2	53	166	41	69	280	159	38	7.3	8.6	4.8
6	1.2	6.1	55	100	37	63	187	120	32	8.8	3.8	3.5
7	1.0	5.3	47	74	34	61	140	97	28	14	2.6	2.4
8	4.7	5.2	47	60	32	59	248	81	25	8.2	2.5	1.7
9	167	10	51	203	30	56	149	70	21	7.9	3.8	1.0
10	38	3.7	88	144	29	54	116	114	19	7.3	4.2	1.8
11	17	6.3	58	94	29	119	164	69	17	7.2	6.6	1.3
12	10	6.4	147	72	92	109	282	60	14	5.8	3.1	8.4
13	5.3	5.1	662	94	501	85	195	63	12	10	2.5	3.9
14	4.5	4.6	289	73	1560	74	184	51	10	13	2.3	2.0
15	2.4	5.4	120	61	259	69	158	44	14	7.1	1.9	1.4
16	1.2	5.6	78	54	129	84	131	41	18	4.8	1.3	1.1
17	.76	4.5	58	50	133	181	230	39	17	3.9	2.5	1.1
18	1.1	3.5	44	54	985	89	153	35	27	4.9	1.0	1.1
19	7.1	3.0	37	47	473	1040	123	32	18	7.6	2.1	.99
20	7.6	5.1	34	46	237	1420	111	33	14	6.1	2.4	.76
21	7.0	5.9	29	41	167	420	173	40	11	7.7	2.8	.75
22	6.0	6.5	26	41	138	248	111	34	10	4.7	2.7	.83
23	4.4	7.4	23	47	117	181	88	99	7.6	3.4	2.7	5.1
24	3.9	9.8	22	47	101	141	1130	55	6.3	3.7	21	21
25	3.5	55	20	47	83	115	1760	6160	6.7	3.2	8.7	25
26	3.8	88	20	42	73	110	494	866	7.8	3.0	4.7	10
27	3.8	55	20	38	240	118	341	729	25	3.1	43	4.8
28	2.8	46	16	36	166	97	337	354	23	6.8	17	2.3
29	2.2	36	16	60	133	75	209	202	10	15	10	1.6
30	1.8	31	16	80	---	76	161	138	7.8	36	6.6	1.7
31	1.6	---	15	76	---	68	---	100	---	11	4.9	---
TOTAL	319.86	773.7	2218	3184	6039	5638	8931	10429	675.2	252.4	216.7	122.83
MEAN	10.3	25.8	71.5	103	208	182	298	336	22.5	8.14	6.99	4.09
MAX	167	268	662	864	1560	1420	1760	6160	77	36	43	25
MIN	.76	3.0	15	16	29	54	58	32	6.3	3.0	1.0	.75
CFSM	.11	.28	.77	1.10	2.23	1.95	3.19	3.60	.24	.09	.07	.04
IN.	.13	.31	.88	1.27	2.41	2.25	3.56	4.15	.27	.10	.09	.05

CUMBERLAND RIVER BASIN

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03431060 MILL CREEK AT THOMPSON LANE NEAR WOODBINE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.5	73.3	173	295	219	354	170	177	239	35.6	16.4	19.9
MAX	59.2	167	349	521	283	771	298	336	586	48.8	25.3	65.3
(WY)	1997	1997	1997	1999	1998	1997	2000	2000	1998	1997	1997	1997
MIN	8.31	13.4	71.5	103	175	177	52.9	113	22.5	8.14	6.99	4.09
(WY)	1999	1999	2000	2000	1997	1998	1997	1999	2000	2000	2000	2000

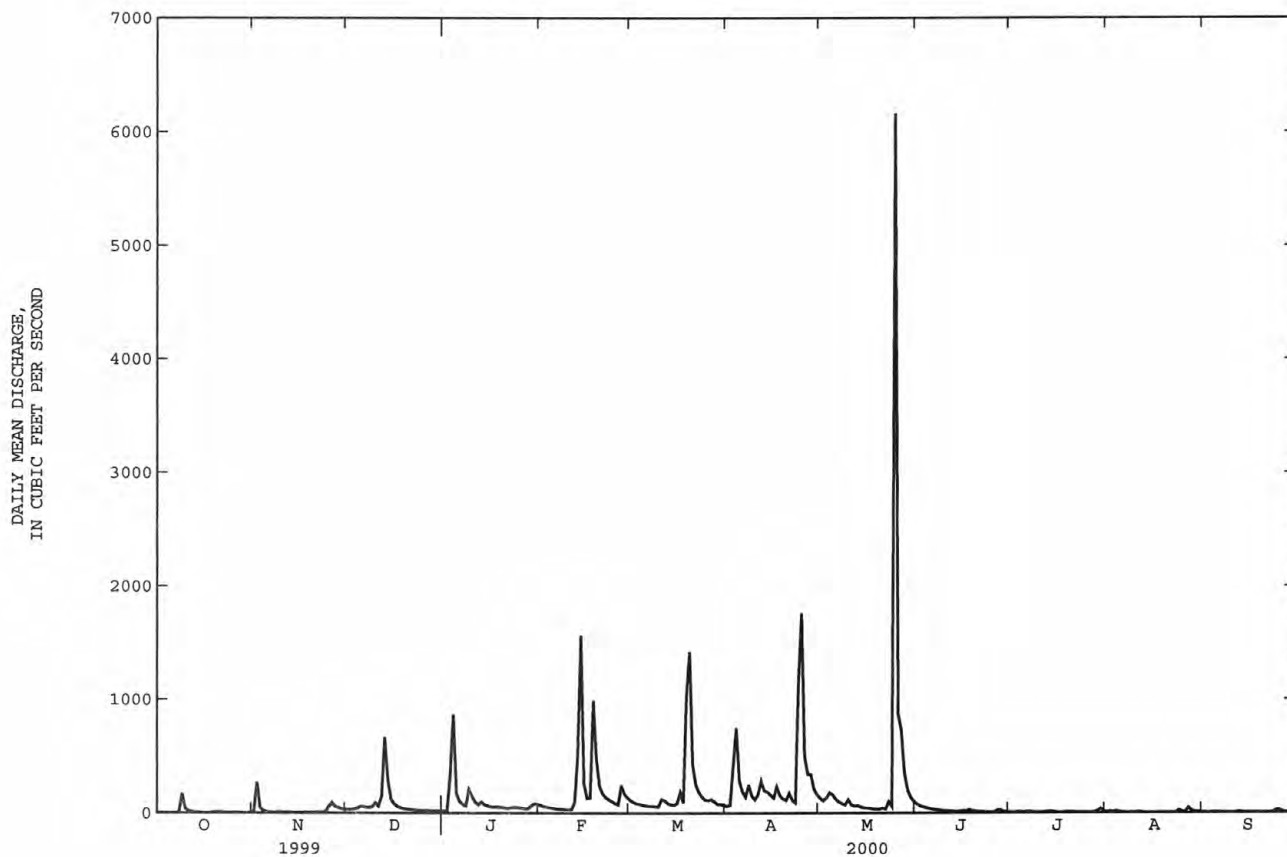
SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1997 - 2000

ANNUAL TOTAL	42034.06	38799.69	
ANNUAL MEAN	115	106	150
HIGHEST ANNUAL MEAN			207
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	5800	Jan 23	6160
LOWEST DAILY MEAN	.76	Oct 17	.75
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 6	.95
INSTANTANEOUS PEAK FLOW			13300
INSTANTANEOUS PEAK STAGE			15.66
INSTANTANEOUS LOW FLOW			.20
ANNUAL RUNOFF (CFSM)	1.23		1.14
ANNUAL RUNOFF (INCHES)	16.74		15.45
10 PERCENT EXCEEDS	265		185
50 PERCENT EXCEEDS	31		30
90 PERCENT EXCEEDS	2.2		2.4



CUMBERLAND RIVER BASIN

03431300 BROWNS CREEK AT STATE FAIRGROUNDS, AT NASHVILLE, TN

LOCATION.--Lat 36°07'47", long 86°45'40", Davidson County, Hydrologic Unit 05130202, near center of span on downstream side of bridge on access road to pit area of the race track at State Fairgrounds, 300 ft west of Craighead Street, 0.3 mi upstream from bridge on U.S. Highway 31A and 41A, and 2.8 mi southwest of the State Capitol in Nashville.

DRAINAGE AREA.--11.8 mi².

PERIOD OF RECORD.--December 1963 to September 1975. August 1993 to current year.

REVISED RECORDS.--WDR TN-94-1: 1975 (p).

GAGE.--Data collection platform. Datum of gage is 439.81 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	0035	*1,840	*7.38	May 26	1245	878	5.30

Minimum discharge 0.94 ft³/s, Oct. 7, 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	9.5	2.4	3.0	8.0	12	9.1	19	17	4.4	2.3	1.7
2	1.3	52	2.1	2.9	7.2	10	11	17	15	4.3	1.9	1.7
3	1.2	10	2.1	65	6.9	9.5	42	24	13	4.1	1.8	1.5
4	1.1	6.2	2.0	47	6.3	8.7	34	27	11	4.0	7.9	1.6
5	1.1	4.5	6.1	20	5.9	7.8	23	18	10	3.8	2.9	1.4
6	1.0	3.6	3.0	15	5.6	7.1	19	14	9.3	16	2.2	1.3
7	1.0	3.1	2.2	11	5.4	6.8	16	12	8.5	3.6	1.8	1.3
8	7.7	2.7	1.9	9.4	5.2	6.8	29	10	8.0	2.4	1.7	1.3
9	59	2.4	1.9	40	5.0	6.3	16	15	7.6	2.1	1.6	1.3
10	17	2.2	14	20	4.9	7.0	14	22	7.1	1.9	2.6	1.7
11	7.8	2.1	3.9	15	7.4	12	27	11	6.8	1.8	1.5	1.2
12	5.0	2.0	42	12	13	7.4	20	9.4	6.3	1.8	1.3	6.9
13	3.7	2.0	49	14	55	6.6	19	15	6.1	1.9	1.2	2.0
14	2.8	1.8	24	10	47	6.1	17	8.6	5.9	1.7	1.3	1.5
15	2.3	1.7	16	8.9	24	5.9	15	7.6	5.8	1.6	1.2	1.3
16	1.9	1.7	11	8.2	18	11	13	6.8	5.5	1.6	1.2	1.2
17	1.7	1.7	9.0	7.0	34	7.2	19	6.3	5.6	1.7	1.2	1.2
18	1.5	1.7	7.7	8.8	49	6.4	13	5.5	6.3	1.6	1.2	1.1
19	1.9	1.6	6.8	7.2	37	84	12	5.1	5.4	2.4	1.1	1.1
20	1.5	2.4	6.5	6.5	28	66	11	7.9	7.1	3.0	1.1	1.1
21	1.3	1.7	5.5	5.9	22	36	9.7	6.1	5.5	1.9	1.1	1.1
22	1.3	1.6	5.0	6.8	19	27	8.9	5.1	5.1	1.6	1.1	1.2
23	1.2	1.5	4.6	7.5	16	22	8.1	17	4.8	1.4	1.1	3.6
24	1.2	3.6	4.2	6.6	17	19	101	20	4.6	1.4	11	11
25	1.2	22	4.0	6.4	13	16	110	506	4.5	1.3	1.7	9.9
26	1.4	12	3.8	6.0	17	14	51	172	4.5	1.3	1.8	3.0
27	1.3	6.1	3.7	5.8	22	19	52	92	11	1.3	15	2.1
28	1.1	4.3	3.6	5.3	15	13	37	53	6.1	1.5	6.5	1.9
29	1.1	3.3	3.5	12	13	11	27	35	5.1	9.7	3.2	1.6
30	1.1	2.7	3.3	9.9	---	13	22	26	4.7	8.9	2.3	1.5
31	1.2	---	3.2	8.8	---	9.7	---	21	---	3.0	1.9	---
TOTAL	135.5	173.7	258.0	411.9	526.8	494.3	805.8	1214.4	223.2	99.0	85.7	70.3
MEAN	4.37	5.79	8.32	13.3	18.2	15.9	26.9	39.2	7.44	3.19	2.76	2.34
MAX	59	52	49	65	55	84	110	506	17	16	15	11
MIN	1.0	1.5	1.9	2.9	4.9	5.9	8.1	5.1	4.5	1.3	1.1	1.1
CFSM	.37	.49	.71	1.13	1.54	1.35	2.28	3.32	.63	.27	.23	.20
IN.	.43	.55	.81	1.30	1.66	1.56	2.54	3.83	.70	.31	.27	.22

CUMBERLAND RIVER BASIN

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03431300 BROWNS CREEK AT STATE FAIRGROUNDS, AT NASHVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.10	12.8	21.3	27.2	24.6	37.0	23.8	19.5	14.8	6.92	6.02	5.60
MAX	24.5	34.8	63.8	86.5	49.2	102	50.3	39.2	61.0	19.8	23.2	21.0
(WY)	1996	1974	1973	1974	1969	1975	1973	2000	1998	1967	1971	1974
MIN	.71	1.36	1.28	5.79	5.87	9.70	4.36	5.42	1.71	.96	1.65	.92
(WY)	1966	1966	1966	1966	1967	1966	1967	1971	1966	1964	1968	1965

SUMMARY STATISTICS

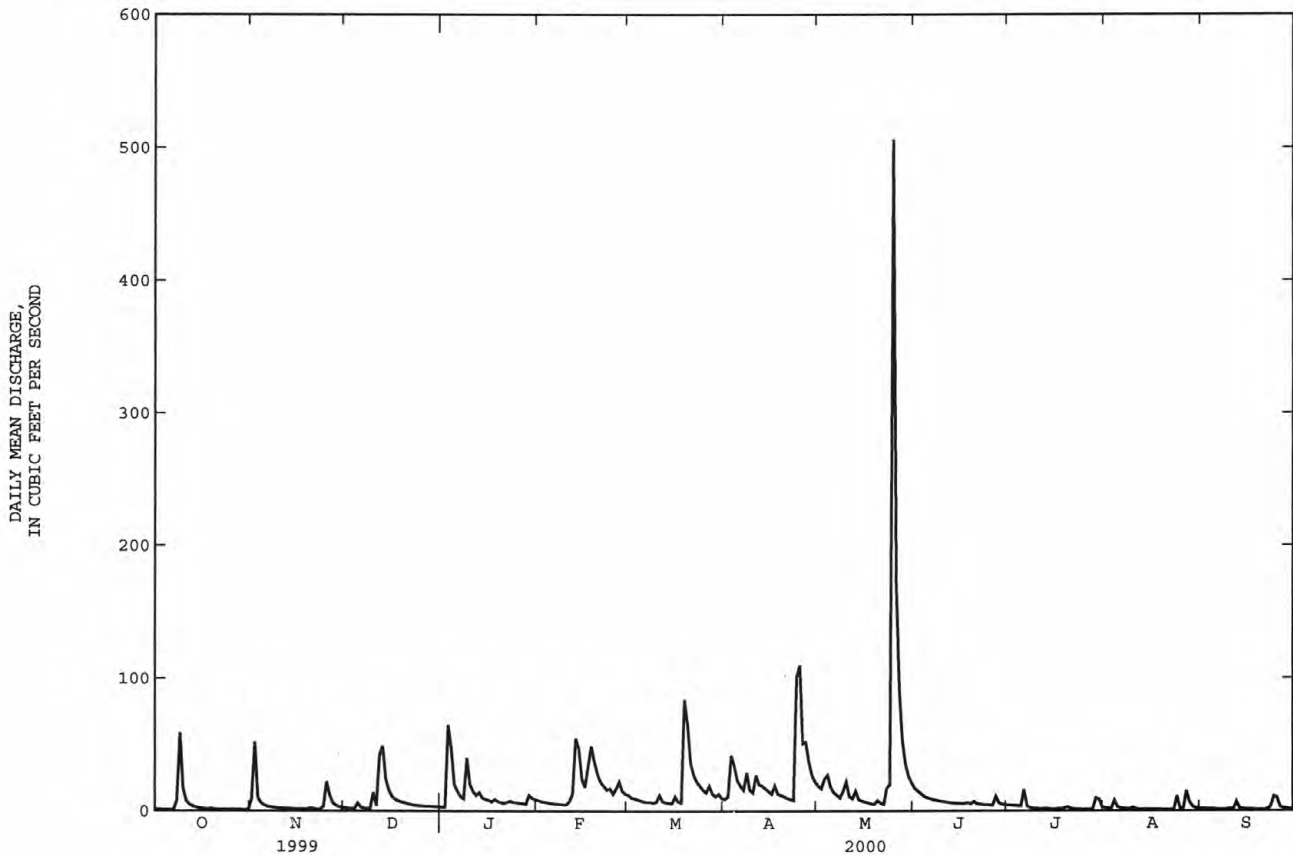
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1964 - 2000

ANNUAL TOTAL	6199.5	4498.6	
ANNUAL MEAN	17.0	12.3	17.2
HIGHEST ANNUAL MEAN			29.6
LOWEST ANNUAL MEAN			6.67
HIGHEST DAILY MEAN	429	Jan 23	506
LOWEST DAILY MEAN	1.0	Oct 6	1.0
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 1	1.1
INSTANTANEOUS PEAK FLOW			1840
INSTANTANEOUS PEAK STAGE			7.38
INSTANTANEOUS LOW FLOW			a.94
ANNUAL RUNOFF (CFSM)	1.44	1.04	1.46
ANNUAL RUNOFF (INCHES)	19.54	14.18	19.83
10 PERCENT EXCEEDS	42	24	38
50 PERCENT EXCEEDS	6.5	6.1	6.5
90 PERCENT EXCEEDS	1.4	1.3	1.3

a Also occurred Oct. 8.



CUMBERLAND RIVER BASIN

034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN

LOCATION.--Lat 36°10'02", long 86°46'35", Davidson County, Hydrologic Unit 05130202, on left bank at northwest corner of Woodland Street Bridge, at Nashville, 3.5 mi downstream from Mill Creek, and at mile 190.9.

DRAINAGE AREA.--12,860 mi², approximately.

PERIOD OF RECORD.--May 1992 to current year. October 1892 to September 1954, monthly and yearly discharges published in WSP 1306 and 1726, October 1986 to September 1991, gage height, published as "at Nashville." Gage height record collected in this vicinity since 1873 are contained in reports of U.S. Weather Bureau.

GAGE.--Data collection platform and acoustic velocity meter. Datum of gage is 368.17 ft above sea level. Prior to fall of 1922 inclined and vertical staff gage at site 350 ft downstream and from fall of 1922 to Apr. 9, 1940, staff gage at site 400 ft downstream, both gages at same datum. Nov. 1, 1930, to Sept. 30, 1954, upper staff gage at former lock 1, 2.7 mi downstream was used as auxiliary gage. Prior to May 1992 at site 0.2 mi upstream at same datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 203,000 ft³/s, Jan. 1, 1927, gage height 56.2 ft; minimum gage height observed after first filling of pool at dam 1, 6.1 ft, Oct. 19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81,300 ft³/s, Mar. 21, maximum gage height, 30.73 ft, Mar. 21, minimum daily discharge, 4,220 ft³/s, Jan. 2; minimum gage height, 16.08 ft, Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8370	5970	6890	5350	e7200	9220	5680	27600	20900	11300	9200	12700
2	e6920	7100	6800	4220	7750	8870	5010	23600	17200	7830	9110	11600
3	e5930	7920	7150	5310	7240	7550	6110	22900	14500	8640	11600	11400
4	e6280	8920	5600	13300	6170	5800	23500	25600	13500	6650	13000	11600
5	e6890	e10700	4660	10400	5200	5050	34600	24500	11900	7450	12800	9260
6	6590	e7840	5660	11400	4950	5940	28300	23500	9460	10600	10600	7750
7	5690	e5900	6120	7910	6390	6920	23800	18200	7790	11800	10900	8620
8	6330	e8160	6280	6790	4620	7110	19200	15000	7220	11700	13100	11500
9	5690	11700	6220	7710	5580	7260	27800	15200	7800	10100	18000	11400
10	9030	11000	7010	7730	5480	7750	29400	14000	7550	9820	20400	8290
11	6480	8150	6150	9070	5740	4980	23300	14400	6680	9560	20500	8220
12	5780	6420	6120	8840	5160	6040	29000	17200	5720	11400	18800	6680
13	5710	4740	11200	7490	4850	10100	41200	13800	6980	14500	12500	8270
14	7200	5070	16900	5780	30400	9960	28600	8800	7390	15000	11800	9500
15	7200	5440	15600	4820	39600	7460	16700	7090	7150	12800	11700	10200
16	5190	6510	12700	4600	18400	6420	18600	5500	8690	8540	14200	9760
17	5110	5880	10900	6600	12700	5830	20700	5560	11900	7110	16200	6060
18	5860	6400	7710	6760	14900	4500	19200	5800	9270	8510	18000	5860
19	6000	6440	5910	7970	15000	10400	19400	4940	8930	12700	19600	5910
20	7110	5930	5670	7760	22600	66100	20500	5090	8310	15900	13000	7140
21	7400	4650	5690	7670	18100	77300	21300	5050	7540	16400	9500	9660
22	7610	5840	5900	5270	11500	46300	19800	4920	9850	10500	8730	11700
23	5790	5550	5770	6340	10200	17500	15800	5400	17600	7640	9200	8190
24	6180	5640	5290	7280	11000	14400	17900	7110	12400	7630	10400	6070
25	6120	5160	5170	5000	8480	11500	34000	39700	8890	7020	13100	5040
26	e6640	5940	4940	6670	6970	7350	37700	36300	8090	7000	12300	6710
27	e8620	5220	5250	5730	6480	7050	32900	28300	9090	9400	9730	6980
28	8260	5320	5070	5400	7580	6740	27500	26600	8540	11100	9360	7210
29	6600	7690	4920	4750	7450	7210	26300	24100	9370	11300	9570	7520
30	6390	7190	4870	4480	---	6280	26800	24600	10400	12300	10600	6600
31	5300	---	5470	e7930	---	6640	---	24000	---	11400	11400	---
TOTAL	204270	204390	219590	216330	317690	411530	700600	524360	300610	323600	398900	257400
MEAN	6589	6813	7084	6978	10950	13280	23350	16910	10020	10440	12870	8580
MAX	9030	11700	16900	13300	39600	77300	41200	39700	20900	16400	20500	12700
MIN	5110	4650	4660	4220	4620	4500	5010	4920	5720	6650	8730	5040

CUMBERLAND RIVER BASIN

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034315005 CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN--Continued

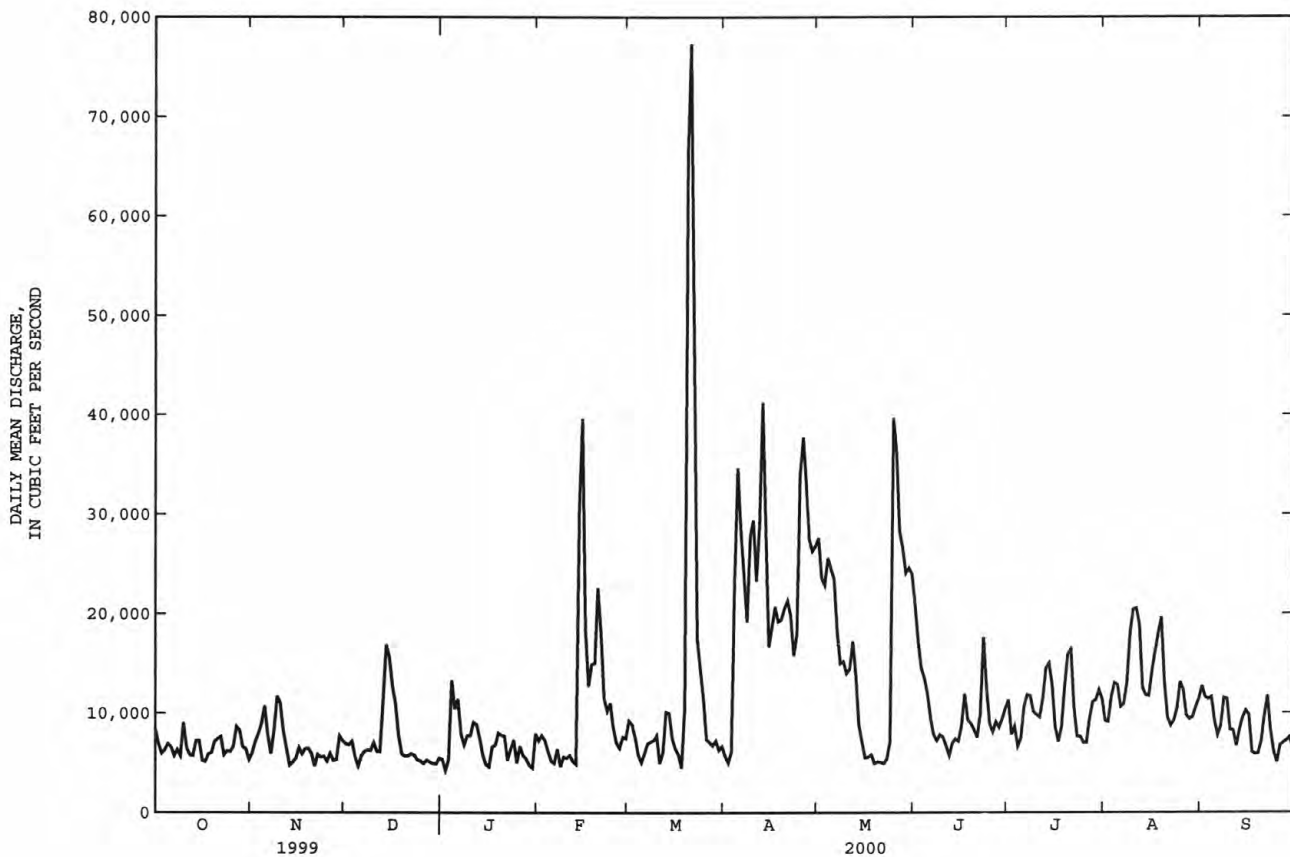
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10510	12900	20750	31270	30940	39220	34710	22730	21770	14610	14100	10810
MAX	18380	22670	40930	43570	71760	82050	92860	47660	50810	20320	20680	18820
(WY)	1993	1996	1997	1994	1994	1994	1994	1998	1997	1992	1996	1992
MIN	6589	6813	7084	6978	10950	13280	10680	7195	10020	10440	10490	8176
(WY)	2000	2000	2000	2000	2000	2000	1995	1992	2000	2000	1993	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		*WATER YEARS 1992 - 2000	
ANNUAL TOTAL	5992300		4079270			
ANNUAL MEAN	16420		11150		22030	
HIGHEST ANNUAL MEAN					34940	
LOWEST ANNUAL MEAN					11150	
HIGHEST DAILY MEAN	99000		77300		122000	
LOWEST DAILY MEAN	4650		4220		4220	
ANNUAL SEVEN-DAY MINIMUM	5070		5020		5020	
INSTANTANEOUS PEAK FLOW					134000	
INSTANTANEOUS PEAK STAGE					39.26	
10 PERCENT EXCEEDS	34600		21000		45000	
50 PERCENT EXCEEDS	11100		7950		14500	
90 PERCENT EXCEEDS	5890		5300		7100	

e Estimated

* Period of daily discharge only.



CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°10'59", long 86°49'56", Davidson County, Hydrologic Unit 05130202, on center pier of Nashville to Ashland City Railroad Bridge, 0.8 mi south of Bordeaux, 2.6 mi upstream of Whites Creek, and at mile 185.2.

DRAINAGE AREA.--12,862 mi², approximately.

PERIOD OF RECORD.--November 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1996 to current year.

pH: November 1996 to current year.

WATER TEMPERATURE: November 1996 to current year.

DISSOLVED OXYGEN: November 1996 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1996.

REMARKS.--Flow regulated by Old Hickory Dam and other reservoirs above station. Periods of missing record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 303 microsiemens, March 14, 2000; minimum, 171 microsiemens, June 4, 1998.

pH: Maximum, 8.7 units, May 1, 3, 1997, Feb. 11, 2000; minimum, 6.6 units, Nov. 30, 1997, June 11, 1997.

WATER TEMPERATURE: Maximum, 27.8°C, July 14, 2000; minimum, 4.4°C, Feb. 3, 2000.

DISSOLVED OXYGEN: Maximum, 13.5 mg/L, Feb. 11, 2000; minimum, 4.5 mg/L, July 7, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 303 microsiemens, Mar. 14; minimum, 192 microsiemens, Oct. 7.

pH: Maximum, 8.7 units, Feb. 11; minimum, 7.1 units, Nov. 4.

WATER TEMPERATURE: Maximum, 27.8°C, July 14; minimum, 4.4°C, Feb. 3.

DISSOLVED OXYGEN: Maximum, 13.5 mg/L, Feb. 11; minimum, 4.5 mg/L, July 7.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	207	195	200	208	201	205	238	209	221	219	213	216
2	208	195	198	230	202	209	243	223	231	232	215	218
3	206	194	197	230	209	220	230	217	223	229	215	219
4	205	195	198	243	213	226	234	223	230	244	216	227
5	206	194	197	230	206	217	247	221	231	244	232	240
6	205	194	197	220	210	216	233	209	219	254	229	240
7	203	192	196	218	204	211	230	209	215	268	229	242
8	209	195	200	206	201	204	232	211	224	253	226	244
9	223	195	201	218	201	207	229	213	221	260	238	245
10	203	197	200	216	201	206	230	212	220	246	233	240
11	212	200	204	218	202	207	233	214	220	262	239	248
12	208	195	201	218	206	213	242	216	224	244	224	237
13	212	199	204	229	208	216	225	206	214	250	230	237
14	210	197	201	233	218	226	241	216	226	252	229	236
15	202	193	197	221	203	212	232	213	223	256	231	243
16	203	194	196	212	201	204	239	217	228	250	228	239
17	210	199	202	225	206	213	235	218	228	249	227	234
18	209	199	202	221	202	209	241	215	229	242	224	229
19	215	200	204	221	201	206	240	215	231	258	224	234
20	251	205	221	237	203	210	231	215	220	239	226	233
21	231	202	209	232	202	212	227	214	217	240	223	230
22	225	207	216	214	199	204	244	215	226	246	227	234
23	228	203	214	213	201	204	236	216	224	243	232	237
24	236	208	223	221	205	214	237	214	227	235	223	228
25	211	200	205	225	209	218	230	213	223	248	224	229
26	228	200	205	222	206	216	225	214	218	263	229	243
27	231	212	223	229	206	217	226	212	219	256	237	246
28	226	206	216	231	218	225	229	212	215	255	235	245
29	226	207	217	218	209	214	225	212	215	256	232	243
30	231	206	215	231	207	216	223	214	216	257	236	243
31	232	208	222	---	---	---	233	214	218	250	235	240
MONTH	251	192	206	243	199	213	247	206	222	268	213	236

CUMBERLAND RIVER BASIN

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03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	258	235	238	270	255	262	280	255	269	254	237	245
2	262	236	249	267	253	258	279	249	269	255	242	247
3	249	238	242	268	256	262	284	249	262	262	238	253
4	251	235	239	269	253	260	269	244	254	254	237	247
5	259	238	245	269	252	262	254	242	246	253	235	244
6	252	234	245	260	240	249	255	249	252	253	232	244
7	244	235	237	257	235	244	255	245	250	248	232	243
8	257	233	240	255	236	246	257	233	248	252	230	240
9	259	243	249	261	237	247	246	219	235	248	230	239
10	248	238	243	261	245	250	237	215	227	250	230	239
11	257	235	241	268	247	257	240	221	233	248	228	238
12	267	234	241	270	254	263	247	219	235	243	226	234
13	257	239	244	262	250	254	225	210	219	244	226	235
14	245	222	231	268	250	256	229	209	217	244	226	232
15	230	220	226	271	251	262	248	219	237	234	224	228
16	240	222	233	280	261	267	243	214	236	239	224	229
17	248	236	244	284	266	277	238	219	231	245	231	237
18	262	242	250	291	271	281	245	221	234	248	234	238
19	259	242	250	303	249	280	246	224	238	248	233	238
20	259	234	245	249	226	234	244	225	238	244	230	237
21	246	233	240	233	226	229	249	231	242	247	232	236
22	256	246	250	242	230	235	248	227	237	238	225	233
23	262	247	253	257	242	250	248	228	239	239	224	227
24	267	248	256	287	257	266	246	226	235	240	224	229
25	273	251	259	266	255	258	251	230	240	---	---	---
26	277	257	266	273	260	268	243	223	234	241	233	235
27	286	258	268	279	244	262	242	222	232	243	235	241
28	279	255	265	283	244	257	253	230	239	243	241	242
29	288	257	268	274	245	259	253	231	244	244	229	239
30	---	---	---	282	260	266	250	232	242	244	226	238
31	---	---	---	278	251	268	---	---	---	241	226	235
MONTH	288	220	247	303	226	258	284	209	240	262	224	238
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	242	228	237	240	225	230	221	212	218	210	204	208
2	243	234	239	229	225	226	223	212	219	210	204	207
3	259	235	250	233	223	225	225	216	220	209	203	207
4	239	235	237	230	227	228	223	212	217	210	203	207
5	244	237	240	234	225	230	224	213	220	210	204	207
6	247	240	242	238	228	231	228	218	222	218	206	211
7	255	236	244	240	226	230	226	220	223	217	210	213
8	253	236	239	237	222	226	230	221	225	214	209	211
9	250	234	239	230	216	222	227	222	224	214	209	212
10	251	232	236	224	215	218	228	223	226	218	211	214
11	251	227	239	227	215	218	228	223	226	219	214	216
12	235	225	228	226	216	218	230	224	226	225	217	220
13	236	225	229	221	214	217	227	223	225	225	220	222
14	237	224	227	217	213	215	231	224	228	224	218	221
15	240	226	230	218	213	216	225	220	223	222	218	219
16	237	226	230	223	214	217	224	219	222	221	216	218
17	236	224	227	219	215	217	221	215	219	219	216	217
18	238	227	229	221	213	217	224	214	218	220	217	219
19	235	227	230	220	211	215	216	208	213	224	219	221
20	240	228	232	216	209	213	214	210	212	232	217	221
21	252	231	235	211	205	208	220	210	214	226	214	218
22	246	231	233	211	209	210	223	210	216	218	213	216
23	233	229	230	215	210	212	222	209	215	221	211	214
24	232	227	229	217	212	215	218	206	212	226	213	216
25	232	224	228	220	212	214	212	207	209	230	215	218
26	235	224	228	218	213	215	208	203	206	231	219	223
27	234	226	229	218	213	215	209	204	206	230	216	221
28	249	228	232	219	211	214	212	202	205	223	213	217
29	242	227	230	222	211	214	217	206	210	224	212	215
30	243	229	231	216	209	213	212	205	208	214	211	212
31	---	---	---	222	210	216	217	205	208	---	---	---
MONTH	259	224	234	240	205	219	231	202	217	232	203	215

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.7	7.4	7.7	7.5	7.6	7.5	8.2	8.1	7.9	7.8	8.0	7.8
2	8.0	7.6	7.6	7.3	7.7	7.6	8.2	8.0	8.0	7.8	8.2	8.0
3	8.0	7.7	7.4	7.2	7.7	7.6	8.2	8.1	8.1	7.8	8.1	7.8
4	8.0	7.7	7.6	7.1	7.7	7.7	8.1	7.6	8.2	8.0	8.0	7.9
5	8.0	7.6	7.7	7.5	7.7	7.7	8.1	7.9	8.2	8.1	8.1	7.8
6	7.7	7.6	7.7	7.6	7.8	7.6	8.1	7.9	8.4	8.0	8.1	7.9
7	7.8	7.6	7.8	7.6	7.8	7.7	8.2	8.0	8.3	8.2	8.2	8.0
8	7.9	7.6	7.7	7.6	7.8	7.6	8.2	8.1	8.4	8.2	8.2	8.1
9	7.9	7.5	7.7	7.6	7.8	7.6	8.1	7.9	8.4	8.1	8.3	8.2
10	7.8	7.5	7.8	7.6	7.7	7.6	8.1	8.0	8.3	8.2	8.5	8.2
11	7.8	7.5	7.9	7.6	7.7	7.6	8.2	8.0	8.7	8.2	8.5	8.1
12	7.8	7.6	7.7	7.6	7.7	7.6	8.2	8.1	8.4	8.1	8.1	7.9
13	7.7	7.5	7.6	7.5	7.7	7.5	8.1	8.0	8.3	7.9	8.4	8.0
14	7.9	7.5	7.6	7.4	7.6	7.6	8.2	8.0	8.0	7.7	8.4	8.2
15	8.2	7.5	7.9	7.5	7.7	7.6	8.3	8.1	7.9	7.8	8.4	8.3
16	7.8	7.5	8.1	7.7	7.7	7.6	8.2	7.9	7.8	7.7	8.4	8.2
17	7.7	7.6	7.7	7.5	7.7	7.6	8.2	7.9	7.8	7.7	8.2	8.1
18	7.9	7.6	7.8	7.5	7.7	7.7	8.2	8.0	7.7	7.6	8.3	8.1
19	7.8	7.5	7.9	7.6	7.7	7.6	8.1	8.0	7.8	7.7	8.2	7.9
20	7.7	7.6	7.9	7.6	7.8	7.6	8.1	7.9	7.8	7.7	8.0	7.9
21	7.9	7.5	7.8	7.6	7.7	7.6	8.2	8.0	7.7	7.6	7.9	7.7
22	7.8	7.5	7.8	7.6	7.8	7.6	8.1	7.9	7.7	7.6	7.7	7.5
23	7.8	7.5	7.7	7.6	7.8	7.7	8.0	7.9	7.8	7.6	7.6	7.6
24	7.7	7.4	7.6	7.5	7.9	7.7	8.1	7.9	7.8	7.7	7.8	7.6
25	7.9	7.7	7.5	7.5	7.9	7.8	8.0	7.8	7.9	7.7	7.9	7.7
26	8.1	7.5	7.5	7.4	8.0	7.8	8.0	7.8	8.0	7.8	8.0	7.8
27	7.7	7.3	7.5	7.4	8.1	7.9	8.0	7.8	7.9	7.7	7.8	7.5
28	7.7	7.5	7.6	7.4	8.1	7.9	8.0	7.8	8.0	7.8	7.9	7.5
29	7.7	7.4	7.7	7.5	8.2	8.0	7.9	7.7	7.9	7.7	7.8	7.6
30	7.6	7.3	7.7	7.6	8.2	8.0	7.9	7.7	---	---	8.0	7.8
31	7.6	7.3	---	---	8.2	8.0	7.9	7.7	---	---	8.1	7.8
MONTH	8.2	7.3	8.1	7.1	8.2	7.5	8.3	7.6	8.7	7.6	8.5	7.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.0	8.1	8.1	8.2	7.8	7.9	7.5	8.0	7.6	8.2	7.7
2	8.2	8.1	8.2	8.1	8.2	7.8	8.3	7.9	8.4	7.7	8.1	7.8
3	8.1	7.8	8.3	8.0	8.0	7.8	8.2	7.7	8.0	7.7	7.9	7.7
4	8.2	7.9	8.4	8.1	8.2	7.8	7.9	7.7	8.1	7.7	7.9	7.7
5	8.4	8.1	8.4	8.1	8.2	7.9	7.8	7.6	8.0	7.6	7.9	7.7
6	8.4	8.2	8.4	8.1	8.2	7.9	7.7	7.5	7.9	7.6	7.8	7.7
7	8.3	8.1	8.4	8.1	8.2	8.0	7.6	7.5	7.9	7.6	7.9	7.7
8	8.3	8.1	8.4	8.0	8.3	7.8	7.9	7.6	7.8	7.5	8.0	7.9
9	8.2	8.0	8.3	8.0	8.5	8.1	8.0	7.7	8.1	7.5	8.0	7.8
10	8.2	8.1	8.2	7.9	8.4	7.9	8.1	7.9	7.8	7.6	7.9	7.8
11	8.1	7.9	8.2	7.7	8.0	7.8	8.0	7.7	8.0	7.8	8.2	7.8
12	8.0	7.9	8.1	7.8	8.0	7.7	7.8	7.6	8.2	7.7	8.0	7.7
13	8.0	8.0	8.0	7.8	7.9	7.6	7.8	7.5	8.2	7.9	7.9	7.7
14	8.0	7.9	7.9	7.7	7.8	7.6	8.0	7.7	8.0	7.7	8.1	7.7
15	8.1	7.9	7.7	7.6	8.0	7.6	7.9	7.7	8.0	7.5	7.9	7.8
16	8.2	8.0	7.8	7.5	7.8	7.4	7.9	7.6	7.9	7.5	7.8	7.7
17	8.2	8.0	7.9	7.6	7.8	7.4	8.1	7.7	7.8	7.5	8.0	7.7
18	8.0	7.9	7.9	7.6	7.8	7.7	8.0	7.7	7.7	7.5	8.3	7.9
19	8.1	7.9	7.8	7.6	7.8	7.6	7.9	7.8	7.9	7.5	8.2	7.6
20	8.2	8.1	7.7	7.6	7.8	7.5	7.9	7.7	8.1	7.7	8.1	7.7
21	8.2	8.0	7.7	7.4	7.8	7.5	8.1	7.7	8.0	7.7	8.2	7.7
22	8.2	7.9	7.6	7.3	8.2	7.5	8.2	7.7	8.1	7.6	8.1	7.7
23	8.1	8.1	7.7	7.3	7.7	7.3	8.1	7.9	8.1	7.8	7.9	7.7
24	8.2	8.0	7.9	7.6	7.7	7.6	7.9	7.8	7.9	7.7	7.9	7.7
25	8.1	7.9	---	---	7.8	7.5	8.3	7.8	7.8	7.6	7.7	7.6
26	8.2	8.0	7.7	7.4	7.8	7.6	8.2	7.9	7.9	7.5	7.7	7.6
27	8.1	8.0	7.7	7.6	7.7	7.4	8.3	7.9	7.9	7.7	7.6	7.4
28	8.1	8.1	7.7	7.6	7.6	7.4	8.1	7.6	8.1	7.7	7.7	7.3
29	8.1	8.0	7.7	7.6	7.7	7.4	7.8	7.5	8.2	7.9	8.0	7.5
30	8.2	8.1	7.9	7.6	7.6	7.5	7.9	7.5	8.2	7.9	7.9	7.7
31	---	---	8.1	7.7	---	---	8.0	7.4	8.2	7.9	---	---
MONTH	8.4	7.8	8.4	7.3	8.5	7.3	8.3	7.4	8.4	7.5	8.3	7.3

CUMBERLAND RIVER BASIN

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03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.3	20.8	21.0	17.7	17.4	17.5	13.1	12.7	13.0	8.0	7.7	7.9
2	21.6	21.1	21.3	17.8	16.6	17.4	12.9	12.6	12.8	8.8	8.0	8.3
3	21.5	21.1	21.3	16.6	16.0	16.3	12.6	12.4	12.4	9.4	8.5	9.0
4	21.3	20.9	21.1	16.0	15.8	15.9	13.0	12.4	12.8	12.1	9.4	10.3
5	20.9	20.3	20.7	16.0	15.6	15.8	13.1	12.8	12.9	10.1	8.7	9.5
6	20.5	20.0	20.2	16.3	15.6	16.0	13.0	12.2	12.6	9.0	8.5	8.7
7	20.7	20.0	20.3	16.5	15.9	16.1	12.2	12.0	12.1	9.0	8.5	8.7
8	20.7	20.1	20.3	16.3	16.1	16.2	12.0	11.7	11.8	9.2	8.6	8.8
9	20.8	20.4	20.5	16.5	16.1	16.3	12.1	11.7	11.8	9.5	8.8	9.0
10	21.0	20.5	20.7	16.6	16.3	16.5	12.2	11.8	12.0	9.7	8.9	9.3
11	21.2	20.5	20.8	16.8	16.5	16.6	12.2	11.6	11.8	9.6	9.2	9.4
12	21.1	20.6	20.8	16.5	16.2	16.4	11.9	11.6	11.7	9.6	9.3	9.4
13	21.1	20.6	20.8	16.3	16.0	16.1	11.8	11.6	11.7	9.7	9.2	9.4
14	20.9	20.5	20.7	16.3	15.9	16.1	11.8	11.4	11.6	9.5	9.1	9.3
15	21.2	20.3	20.7	16.1	15.8	16.0	11.6	11.1	11.4	9.1	8.8	8.9
16	20.9	20.2	20.4	15.8	15.3	15.7	11.2	10.8	11.1	9.1	8.7	8.9
17	20.6	20.3	20.5	15.3	14.9	15.1	11.1	10.7	10.9	9.2	8.6	8.8
18	20.3	20.0	20.2	14.9	14.7	14.8	11.1	10.7	10.9	9.1	8.6	8.8
19	20.0	19.0	19.5	15.0	14.6	14.8	11.2	10.9	11.0	8.8	8.4	8.6
20	19.0	18.6	18.8	15.3	14.9	15.0	11.2	10.9	11.0	8.5	8.1	8.3
21	18.7	18.1	18.5	15.5	14.9	15.2	10.9	10.3	10.6	8.1	7.4	7.8
22	18.7	18.1	18.3	15.5	15.1	15.2	10.3	9.7	10.0	7.5	7.0	7.3
23	18.2	17.6	18.0	15.6	15.1	15.3	9.7	9.4	9.5	7.3	6.9	7.1
24	17.6	17.1	17.5	15.5	15.2	15.4	9.4	8.8	9.2	6.9	6.5	6.7
25	17.2	16.8	17.0	15.2	14.9	15.1	8.8	8.4	8.7	6.6	6.0	6.4
26	17.1	16.5	16.8	14.9	14.4	14.7	8.4	8.0	8.2	6.2	5.7	5.9
27	17.0	16.4	16.7	14.5	14.1	14.3	8.3	7.9	8.0	5.8	5.3	5.6
28	17.2	16.8	17.0	14.4	14.1	14.3	8.1	7.7	7.9	5.7	5.1	5.3
29	17.3	16.9	17.1	14.1	13.5	13.8	7.9	7.6	7.7	5.3	5.0	5.1
30	17.5	16.9	17.2	13.5	13.1	13.3	7.9	7.6	7.7	5.4	4.9	5.1
31	17.6	17.2	17.4	---	---	---	8.2	7.7	7.9	5.1	4.7	4.9
MONTH	21.6	16.4	19.4	17.8	13.1	15.6	13.1	7.6	10.7	12.1	4.7	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.8	4.5	4.6	12.2	11.2	11.7	14.8	14.2	14.5	16.9	16.1	16.5
2	4.7	4.5	4.6	12.7	12.0	12.4	15.7	14.6	15.1	17.5	16.8	17.1
3	4.9	4.4	4.7	12.3	11.6	11.8	15.5	15.1	15.2	17.8	17.1	17.4
4	5.1	4.7	4.9	12.1	11.6	11.9	15.7	14.6	15.2	18.3	17.5	17.8
5	5.3	4.7	4.9	12.7	11.5	11.9	15.0	14.2	14.6	18.6	17.5	18.0
6	5.2	4.7	4.9	12.8	12.0	12.5	15.6	14.7	15.0	18.9	18.0	18.4
7	5.3	4.8	5.0	13.2	12.7	12.9	16.0	15.2	15.5	19.5	18.2	18.8
8	5.7	4.9	5.3	13.6	12.7	13.1	15.7	14.8	15.5	20.0	19.0	19.4
9	6.1	5.4	5.7	13.9	13.2	13.6	14.8	14.1	14.4	20.2	19.3	19.7
10	---	---	---	14.5	13.7	14.0	14.6	14.3	14.5	20.3	19.5	19.8
11	---	---	---	14.5	12.8	13.9	14.6	14.4	14.6	20.3	19.3	19.7
12	7.3	6.4	6.7	12.9	12.4	12.6	14.5	14.2	14.4	21.2	20.3	20.7
13	7.4	6.9	7.2	13.5	12.6	13.1	14.2	13.7	13.9	21.0	20.6	20.9
14	8.2	7.0	7.6	13.5	12.8	13.2	14.0	13.5	13.7	21.0	20.3	20.5
15	7.7	7.0	7.3	13.5	13.0	13.1	14.3	13.9	14.1	20.5	20.0	20.2
16	8.5	7.7	8.0	13.6	13.2	13.4	14.4	14.1	14.3	20.9	20.3	20.5
17	8.3	7.5	7.9	13.8	13.1	13.4	14.6	14.1	14.4	21.7	20.5	21.0
18	8.7	7.7	8.2	13.6	12.8	13.1	14.2	14.0	14.1	22.2	21.4	21.7
19	9.0	8.3	8.7	13.1	12.4	12.8	15.2	14.2	14.6	22.3	22.0	22.1
20	8.3	7.9	8.1	13.0	12.8	12.9	16.4	15.2	15.6	22.3	22.0	22.2
21	8.5	8.0	8.3	13.0	12.5	12.8	15.9	14.9	15.6	22.8	21.7	22.3
22	9.1	8.4	8.7	12.8	12.2	12.5	15.9	14.6	15.2	21.8	21.2	21.5
23	9.6	9.0	9.3	13.3	12.8	13.0	15.9	15.2	15.5	22.1	21.1	21.5
24	10.3	9.4	9.8	14.0	13.3	13.6	15.6	15.1	15.3	22.6	22.1	22.3
25	10.8	10.0	10.4	14.8	13.7	14.3	15.2	14.7	15.0	---	---	---
26	11.3	10.3	10.8	15.6	14.5	14.9	15.4	14.8	15.1	---	---	---
27	11.8	11.2	11.4	14.7	14.3	14.5	15.8	15.1	15.4	22.0	21.4	21.7
28	11.9	11.4	11.7	14.8	14.4	14.6	16.0	15.6	15.8	21.9	21.7	21.9
29	11.8	11.2	11.4	14.8	13.5	14.2	16.0	15.4	15.8	21.8	21.1	21.5
30	---	---	---	14.1	13.6	13.9	16.7	15.8	16.2	22.5	21.1	21.6
31	---	---	---	14.4	13.6	14.1	---	---	---	22.8	21.7	22.2
MONTH	11.9	4.4	7.6	15.6	11.2	13.2	16.7	13.5	14.9	22.8	16.1	20.3

CUMBERLAND RIVER BASIN

03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.1	22.0	22.4	26.1	25.1	25.6	26.5	25.3	25.8	25.6	24.5	25.1
2	23.2	22.2	22.6	26.9	25.8	26.2	26.8	25.5	26.0	25.4	24.8	25.1
3	23.1	22.2	22.5	26.7	26.1	26.3	26.1	25.6	25.8	25.4	24.6	25.0
4	23.5	22.5	23.0	26.8	26.0	26.3	26.2	25.5	25.8	25.6	25.0	25.2
5	23.7	23.1	23.4	26.6	26.2	26.4	26.2	25.5	25.8	25.2	24.5	24.8
6	23.6	22.9	23.2	26.8	25.9	26.2	26.2	25.6	25.9	24.9	24.2	24.5
7	23.3	22.6	23.0	26.7	25.8	26.2	26.5	25.9	26.2	25.4	24.2	24.8
8	24.0	22.9	23.4	26.8	26.1	26.6	26.3	25.6	26.0	25.4	25.1	25.3
9	24.7	24.0	24.3	27.4	26.8	27.0	27.0	25.6	26.3	25.2	25.0	25.1
10	25.1	23.8	24.4	27.6	27.0	27.3	26.9	26.2	26.6	25.2	24.9	25.1
11	24.5	23.5	23.9	27.5	26.9	27.2	27.1	26.3	26.6	25.5	24.8	25.2
12	25.0	24.1	24.5	27.3	26.6	27.0	26.7	26.2	26.4	25.2	24.6	24.8
13	25.1	23.9	24.5	27.1	26.2	26.7	26.7	26.1	26.4	24.9	24.4	24.6
14	24.6	23.8	24.1	27.8	26.7	27.3	26.3	25.6	26.0	25.0	24.4	24.6
15	25.1	23.7	24.2	27.5	27.0	27.3	26.2	25.1	25.6	24.5	23.8	24.3
16	25.2	23.7	24.4	27.5	27.0	27.3	26.0	25.2	25.6	23.8	23.1	23.4
17	24.9	23.6	24.0	27.4	26.7	27.0	26.0	24.9	25.5	23.5	22.8	23.2
18	25.2	24.7	25.0	27.4	27.1	27.2	25.8	24.7	25.4	24.0	23.3	23.5
19	25.0	24.7	24.9	27.4	26.9	27.2	25.7	24.9	25.2	24.1	23.1	23.5
20	25.8	24.9	25.3	27.1	26.0	26.5	25.9	25.2	25.6	23.8	23.3	23.5
21	25.8	25.1	25.4	27.1	26.1	26.7	25.7	25.1	25.4	24.2	23.2	23.5
22	26.7	25.4	25.7	27.2	25.9	26.6	26.0	25.3	25.5	23.5	23.0	23.3
23	25.8	24.9	25.3	26.8	25.9	26.5	25.9	25.2	25.5	23.3	23.0	23.1
24	26.2	25.6	25.7	25.9	25.5	25.6	25.2	24.5	24.8	23.3	23.1	23.2
25	26.2	25.3	25.7	26.9	25.4	25.9	24.5	24.2	24.4	23.1	22.5	22.9
26	26.7	25.6	26.2	26.6	25.9	26.1	24.4	23.9	24.1	22.5	21.8	22.1
27	25.7	25.2	25.4	26.3	25.7	26.2	24.4	23.8	24.1	21.8	21.3	21.4
28	25.4	25.0	25.1	26.1	25.4	25.6	24.8	24.1	24.3	21.8	21.2	21.4
29	25.8	25.1	25.4	25.4	24.9	25.1	25.4	24.7	24.9	21.9	21.4	21.5
30	25.6	25.1	25.4	25.6	24.7	25.0	25.3	24.8	25.0	21.7	21.3	21.5
31	---	---	---	25.9	24.8	25.2	25.5	24.8	25.1	---	---	---
MONTH	26.7	22.0	24.4	27.8	24.7	26.4	27.1	23.8	25.5	25.6	21.2	23.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	6.7	7.5	8.9	8.0	8.6	9.0	8.5	8.7	12.2	11.8	12.0
2	9.6	8.2	8.8	8.8	7.5	8.5	9.1	8.8	8.9	12.1	11.6	11.8
3	9.7	8.4	9.0	8.1	6.4	7.5	9.5	8.9	9.2	12.1	11.6	11.9
4	9.6	8.1	8.8	8.2	4.8	6.6	9.5	8.9	9.2	---	---	---
5	9.4	8.3	8.7	8.0	7.2	7.6	9.5	9.2	9.3	---	---	---
6	8.8	8.3	8.6	8.1	7.5	7.8	9.8	9.2	9.5	---	---	---
7	9.3	8.3	8.8	8.1	7.5	7.8	10.1	9.5	9.8	---	---	---
8	9.9	8.4	9.1	8.0	7.7	7.8	10.1	9.3	9.6	---	---	---
9	9.9	8.6	9.1	8.1	7.3	7.6	10.0	9.3	9.6	---	---	---
10	9.7	8.6	9.1	8.2	7.4	7.8	9.7	9.4	9.5	---	---	---
11	9.8	8.4	9.2	8.2	7.2	7.9	9.8	9.4	9.6	---	---	---
12	10.1	9.1	9.5	7.9	7.0	7.3	9.7	9.3	9.6	---	---	---
13	9.9	8.9	9.4	7.3	6.4	6.9	9.6	9.3	9.4	---	---	---
14	9.9	8.3	9.2	7.0	5.9	6.4	9.5	9.0	9.3	---	---	---
15	10.2	8.0	9.2	8.2	6.9	7.6	9.7	9.2	9.4	---	---	---
16	8.5	7.2	7.8	9.0	7.9	8.5	9.7	9.4	9.5	---	---	---
17	8.0	6.9	7.5	8.1	7.6	7.9	9.7	9.5	9.6	---	---	---
18	8.2	6.0	7.3	9.0	7.6	8.4	9.8	9.5	9.7	---	---	---
19	8.2	7.0	7.3	9.4	8.2	8.9	10.0	9.3	9.7	---	---	---
20	7.6	6.5	6.9	9.3	8.8	9.0	10.4	9.8	10.1	---	---	---
21	8.3	5.8	7.5	9.1	8.6	8.9	10.1	9.9	10.0	11.8	11.2	11.4
22	8.2	6.7	7.5	9.3	8.5	9.0	10.3	9.8	10.1	11.6	11.4	11.5
23	8.2	7.3	7.9	9.3	8.8	9.0	10.6	10.1	10.4	11.7	11.4	11.5
24	8.2	6.4	7.3	9.3	8.9	9.1	11.0	10.1	10.5	11.9	11.4	11.7
25	9.3	8.2	8.8	9.1	8.8	9.0	11.2	10.5	10.8	12.0	11.5	11.8
26	9.8	7.5	9.2	9.3	8.7	9.0	11.6	10.9	11.2	12.2	11.6	11.9
27	8.9	6.2	7.5	9.2	8.8	9.1	11.7	10.8	11.3	12.5	11.6	12.0
28	9.0	7.0	7.9	9.3	8.9	9.1	11.8	11.2	11.6	12.4	12.0	12.2
29	8.8	6.8	7.5	9.4	9.0	9.2	12.1	11.2	11.8	12.5	12.2	12.3
30	8.4	6.2	7.5	9.2	8.8	9.0	12.0	11.6	11.9	12.4	12.1	12.3
31	8.4	5.4	7.0	---	---	---	12.2	11.7	12.0	12.7	12.1	12.4
MONTH	10.2	5.4	8.3	9.4	4.8	8.2	12.2	8.5	10.0	12.7	11.2	11.9

CUMBERLAND RIVER BASIN

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03431514 CUMBERLAND RIVER NEAR BORDEAUX, TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.9	12.4	12.7	11.4	9.9	10.4	13.0	10.9	12.2	11.1	9.7	10.5
2	13.2	12.4	12.8	11.6	10.3	11.0	12.3	11.3	11.7	11.1	10.2	10.8
3	13.1	12.6	13.0	11.2	10.8	11.0	11.4	10.5	10.9	11.0	9.9	10.5
4	13.1	12.4	12.8	11.5	11.0	11.2	10.6	9.6	10.2	11.2	9.8	10.4
5	13.1	12.4	12.7	12.3	11.2	11.7	10.8	9.6	10.2	10.9	9.8	10.3
6	---	---	---	12.6	11.9	12.3	10.9	10.0	10.5	11.4	9.8	10.6
7	---	---	---	13.0	11.7	12.4	10.7	9.8	10.3	9.8	8.4	9.1
8	---	---	---	12.6	11.4	12.0	10.4	9.7	10.0	---	---	---
9	---	---	---	11.5	10.1	10.8	10.6	9.1	10.0	10.7	8.4	9.7
10	---	---	---	11.8	10.1	10.9	10.6	9.9	10.2	10.7	8.8	9.6
11	---	---	---	11.2	10.3	10.6	10.0	9.4	9.6	10.2	8.1	8.8
12	---	---	---	---	---	---	9.9	9.0	9.5	10.1	8.6	9.2
13	---	---	---	---	---	---	10.1	9.6	9.9	9.2	8.2	8.7
14	---	---	---	11.5	10.6	10.9	9.9	9.5	9.7	9.1	7.7	8.5
15	---	---	---	11.6	10.8	11.3	10.2	9.3	9.7	9.0	7.7	8.3
16	---	---	---	11.5	10.8	11.1	10.9	9.4	10.0	8.9	7.9	8.3
17	12.1	11.1	11.5	11.3	10.4	10.9	10.4	9.7	10.0	9.1	7.9	8.4
18	12.4	11.2	11.8	11.7	10.8	11.2	9.7	8.8	9.2	8.7	7.8	8.2
19	12.2	11.0	11.6	11.2	10.2	10.9	9.1	7.2	8.5	8.3	7.6	7.9
20	12.4	11.2	11.7	11.4	10.1	10.6	9.1	6.9	8.2	8.1	7.5	7.7
21	12.3	11.5	12.0	11.5	11.1	11.4	8.7	5.7	7.3	8.1	7.2	7.5
22	12.3	11.2	11.9	11.2	9.6	10.4	9.4	5.9	7.4	7.9	6.6	7.3
23	12.5	10.8	11.6	9.8	9.5	9.7	9.6	5.9	8.0	8.3	6.5	7.6
24	12.5	11.0	11.7	10.2	9.7	9.9	9.9	8.9	9.2	9.0	7.4	8.2
25	12.1	11.1	11.5	10.7	9.6	10.1	10.3	8.7	9.6	---	---	---
26	12.5	11.4	12.0	11.5	10.3	10.8	10.6	9.4	10.2	---	---	---
27	12.5	11.8	12.2	10.3	9.2	9.8	10.6	9.3	10.1	7.1	6.6	6.9
28	12.1	11.4	11.8	10.8	9.1	10.1	10.7	9.6	10.2	6.8	6.6	6.7
29	11.6	10.8	11.3	10.7	9.6	10.2	10.8	9.4	10.2	7.2	6.2	6.6
30	---	---	---	11.3	9.9	10.7	11.4	9.7	10.6	8.3	6.7	7.3
31	---	---	---	11.9	10.1	11.2	---	---	---	8.6	7.3	7.9
MONTH	13.2	10.8	12.0	13.0	9.1	10.9	13.0	5.7	9.8	11.4	6.2	8.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.2	7.5	8.1	8.4	6.6	7.6	8.0	6.7	7.4	7.6	5.7	6.6
2	9.2	7.2	8.1	10.0	7.9	8.5	8.5	7.0	7.7	7.3	6.1	6.8
3	8.6	6.8	7.3	9.1	7.2	8.3	7.3	6.5	6.9	7.1	5.8	6.5
4	8.4	6.4	7.4	8.0	6.7	7.3	7.6	6.7	7.3	7.1	6.1	6.6
5	8.1	6.8	7.6	7.4	6.3	6.9	7.4	6.4	6.9	6.8	6.0	6.5
6	7.9	6.5	7.3	6.6	5.0	5.9	7.8	6.6	7.1	6.8	6.1	6.4
7	7.6	7.0	7.3	5.7	4.5	5.2	7.6	6.6	7.1	6.6	6.0	6.3
8	8.5	6.8	7.4	6.7	5.3	6.0	7.2	6.3	6.7	6.7	6.3	6.5
9	9.4	7.9	8.7	7.3	6.1	6.8	7.8	6.1	6.8	7.0	6.2	6.6
10	9.8	7.6	8.6	7.7	6.9	7.3	7.2	6.7	7.0	7.3	6.4	6.9
11	8.2	6.9	7.5	7.3	6.5	6.9	7.7	7.0	7.3	8.3	7.1	7.6
12	8.4	6.8	7.5	6.7	5.8	6.2	8.2	7.0	7.6	8.3	7.0	7.3
13	8.8	7.0	7.6	6.5	5.1	6.0	8.6	7.7	8.1	7.6	6.7	7.2
14	8.2	6.9	7.5	7.5	6.0	6.8	8.7	7.7	8.2	8.0	7.0	7.4
15	8.4	6.8	7.4	7.2	6.3	6.8	8.5	7.3	8.0	7.7	7.1	7.4
16	8.0	6.3	7.1	7.8	6.3	7.2	8.6	7.3	7.9	7.5	6.6	7.0
17	7.5	6.0	6.5	8.2	6.5	7.4	8.5	7.4	7.9	8.3	6.7	7.4
18	7.8	7.2	7.6	8.1	7.0	7.5	8.2	7.5	7.9	8.9	7.8	8.3
19	7.7	7.1	7.5	7.6	6.7	7.0	8.4	7.5	7.9	9.7	7.5	8.4
20	8.8	7.3	8.0	7.2	6.3	6.5	8.5	8.0	8.2	8.7	7.5	8.0
21	8.2	7.4	7.8	7.8	6.6	7.2	9.0	7.8	8.4	9.5	7.1	7.9
22	9.3	6.9	8.1	7.9	6.8	7.3	8.9	7.7	8.4	8.1	7.0	7.6
23	7.8	5.9	6.8	8.1	7.2	7.6	8.5	7.6	8.1	7.9	6.9	7.5
24	8.4	7.4	7.7	7.8	7.1	7.4	7.9	7.3	7.7	7.8	7.1	7.3
25	8.3	7.2	7.8	8.3	7.2	7.8	7.5	6.8	7.2	7.2	6.2	6.6
26	8.6	7.4	8.0	8.7	7.5	8.1	7.2	6.6	6.9	6.9	6.2	6.6
27	7.4	6.5	6.8	8.6	7.7	8.2	7.0	6.6	6.8	7.5	6.1	6.8
28	6.9	6.1	6.5	8.0	7.1	7.6	6.7	6.1	6.4	8.2	6.6	7.6
29	7.3	5.9	6.7	7.4	5.9	6.7	6.8	6.0	6.4	9.4	7.7	8.6
30	7.2	6.0	6.6	7.4	6.2	6.7	7.2	5.9	6.5	9.5	8.1	8.7
31	---	---	---	7.7	5.8	6.9	7.2	6.1	6.8	---	---	---
MONTH	9.8	5.9	7.5	10.0	4.5	7.1	9.0	5.9	7.4	9.7	5.7	7.2

CUMBERLAND RIVER BASIN

03431599 WHITES CREEK NEAR BORDEAUX, TN

LOCATION.--Lat 36°13'03", long 86°49'13", Davidson County, Hydrologic Unit 05130202, on right bank on downstream side of bridge on Buena Vista Pike, 0.4 mi downstream from Ewing Creek, 1.8 mi northeast of Bordeaux, 2.1 mi above Drakes Branch, and at mile 6.1.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--October 1964 to April 1975 (published as at Tucker Road, near Bordeaux), August 1993 to current year. Occasional low-flow measurements, water years 1962-64.

GAGE.--Data collection platform. Datum of gage is 402.87 ft above sea level. Oct. 1964 to April 1975 at site 0.4 mi downstream at datum 1.23 ft lower, August 1993 to Sept. 1995 at datum 3.85 ft higher.

REMARKS.--No estimated daily discharges. Records good. Peak discharge of 12,200 ft³/s, Feb. 23, 1975, gage height 17.06 ft, occurred at Tucker Road near Bordeaux site. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	0345	*3,210	*11.99	No other peak greater than base discharge.			

Minimum discharge 0.56 ft³/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	2.9	3.5	3.3	18	61	16	73	38	4.0	10	2.7
2	.78	45	3.2	3.1	16	54	17	53	27	3.5	7.7	2.9
3	.71	12	3.1	128	14	50	84	41	23	3.1	6.1	3.1
4	.78	5.9	3.1	226	14	45	183	56	18	3.0	7.1	2.8
5	.78	4.2	3.7	72	12	36	105	46	17	2.9	6.5	5.8
6	.91	3.6	5.3	39	11	28	70	31	15	3.1	5.2	3.5
7	1.2	3.2	4.5	26	9.9	23	50	23	12	3.0	4.2	3.0
8	1.3	3.1	3.8	20	9.4	22	122	18	11	2.8	3.7	2.8
9	93	3.1	3.3	33	8.6	23	76	16	9.3	2.6	3.4	2.9
10	25	3.2	19	27	7.8	20	55	31	8.3	2.4	3.1	3.0
11	6.9	3.4	11	21	8.4	25	145	15	7.4	2.2	3.0	3.0
12	3.9	3.4	55	17	19	21	203	11	6.8	2.2	2.7	2.8
13	3.0	3.3	197	32	295	17	133	13	6.2	2.2	2.4	3.0
14	2.6	3.4	109	23	376	18	97	9.5	5.5	2.2	2.4	2.8
15	2.3	3.4	43	19	157	18	72	7.6	37	2.0	2.3	2.6
16	2.2	3.4	21	17	104	23	52	6.5	24	1.7	2.2	2.3
17	2.2	3.4	14	15	86	29	89	5.7	11	1.6	2.1	2.3
18	2.2	3.4	9.2	31	206	24	59	5.0	12	1.8	2.0	2.2
19	2.2	3.3	7.4	29	151	413	45	4.3	14	2.6	2.1	2.0
20	2.2	3.7	6.9	27	109	492	38	4.4	10	2.8	2.1	1.8
21	2.1	4.2	5.9	22	88	216	33	5.1	8.2	2.9	2.0	1.7
22	2.1	4.0	5.1	20	67	128	26	4.5	12	2.7	1.8	1.8
23	2.4	3.7	4.7	20	54	83	22	22	7.3	2.3	1.5	4.6
24	2.3	3.9	4.4	21	56	57	611	8.9	6.0	2.1	2.0	13
25	2.3	12	4.1	20	40	43	659	878	5.1	1.9	2.0	12
26	2.4	20	3.9	17	45	33	256	294	4.5	1.7	2.3	8.4
27	2.4	9.5	3.8	15	94	41	202	336	4.4	1.8	10	5.4
28	2.4	5.8	3.7	12	78	31	243	193	6.4	1.7	7.0	3.9
29	2.3	4.5	3.6	15	65	25	152	121	5.9	18	4.6	3.0
30	2.4	3.9	3.5	21	---	23	105	84	4.8	85	3.4	2.7
31	2.5	---	3.4	20	---	19	---	57	---	24	2.8	---
TOTAL	180.71	191.8	572.1	1011.4	2219.1	2141	4020	2473.5	377.1	195.8	119.7	113.8
MEAN	5.83	6.39	18.5	32.6	76.5	69.1	134	79.8	12.6	6.32	3.86	3.79
MAX	93	45	197	226	376	492	659	878	38	85	10	13
MIN	.71	2.9	3.1	3.1	7.8	17	16	4.3	4.4	1.6	1.5	1.7
CFSM	.11	.12	.36	.64	1.49	1.35	2.61	1.56	.25	.12	.08	.07
IN.	.13	.14	.41	.73	1.61	1.55	2.92	1.79	.27	.14	.09	.08

CUMBERLAND RIVER BASIN

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03431599 WHITES CREEK NEAR BORDEAUX, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

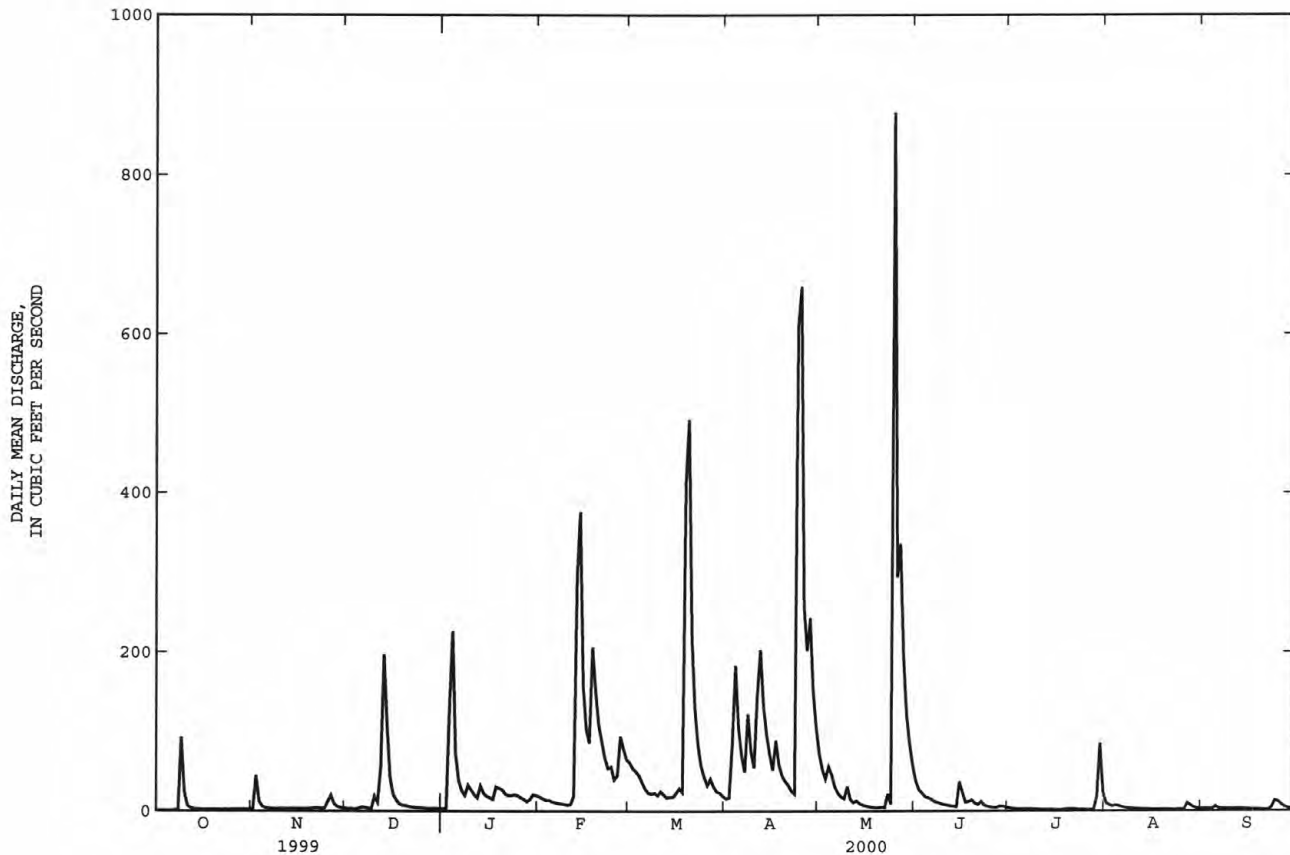
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.0	54.4	105	135	147	189	130	89.7	52.4	15.8	16.3	17.7
MAX	67.1	138	286	288	369	530	286	277	264	48.3	87.2	122
(WY)	1996	1973	1973	1999	1975	1975	1994	1995	1998	1967	1972	1974
MIN	2.05	6.30	8.18	25.2	36.3	46.0	18.8	20.2	4.70	1.11	1.79	.98
(WY)	1970	1999	1966	1966	1968	1966	1967	1969	1966	1966	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1965 - 2000
ANNUAL TOTAL	25102.12	13616.01	
ANNUAL MEAN	68.8	37.2	77.2
HIGHEST ANNUAL MEAN			129
LOWEST ANNUAL MEAN			35.2
HIGHEST DAILY MEAN	2320	878	5100
LOWEST DAILY MEAN	.19	.71	.19
ANNUAL SEVEN-DAY MINIMUM	.30	.87	.30
INSTANTANEOUS PEAK FLOW		3210	a12200
INSTANTANEOUS PEAK STAGE		11.99	b19.08
INSTANTANEOUS LOW FLOW		.56	c.07
ANNUAL RUNOFF (CFSM)	1.34	.73	1.50
ANNUAL RUNOFF (INCHES)	18.20	9.87	20.44
10 PERCENT EXCEEDS	167	90	174
50 PERCENT EXCEEDS	11	8.0	22
90 PERCENT EXCEEDS	1.1	2.2	2.6

a From rating curve extended above 6,900 ft³/s on basis of contracted opening measurement of peak flow, see REMARKS.

b Current site and datum.

c Also occurred Sept. 11, 1999.



CUMBERLAND RIVER BASIN

03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN

LOCATION.--Lat 36°09'04", long 86°51'16", Davidson County, Hydrologic Unit 05130202, near right bank on downstream end of pier of Charlotte Avenue bridge on U.S. Highway 70, 4.0 mi southwest of the State Capitol in Nashville, and at mile 3.7.

DRAINAGE AREA.--24.3 mi².

PERIOD OF RECORD.--July 1964 to September 1990, August 1993 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 409.56 ft above sea level.

REMARKS.--No estimated daily discharges. Records good, except below 5 ft³/s which are fair. Diversions above station used for irrigation of golf courses. Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	0230	*3,800	*9.83	No other peak greater than base discharge.			

Minimum discharge 1.2 ft³/s, July 11, 14, 18, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	5.0	4.2	5.9	13	14	11	32	31	2.4	8.8	3.2
2	3.2	50	4.0	5.8	13	12	13	26	24	2.2	5.9	12
3	3.1	11	4.3	74	12	11	61	22	19	2.6	4.5	6.4
4	2.9	7.2	3.6	85	12	11	77	22	16	2.0	14	3.8
5	2.6	6.0	5.5	32	11	9.9	45	17	15	2.3	7.5	3.2
6	2.5	5.2	4.8	21	11	9.4	33	14	13	2.7	5.4	3.1
7	2.4	4.5	4.1	17	10	9.1	24	12	11	4.8	4.1	2.9
8	6.3	4.2	3.7	14	9.9	8.4	44	10	9.1	2.5	3.6	3.0
9	81	3.8	3.6	44	9.1	7.6	23	11	8.1	2.2	3.3	3.0
10	24	3.5	16	28	9.5	7.8	20	25	7.7	1.9	3.0	3.1
11	11	3.2	6.3	20	10	13	40	10	7.1	1.3	2.7	2.8
12	8.2	3.2	67	16	18	8.6	40	8.2	6.2	1.5	2.6	2.8
13	6.5	3.2	124	22	80	7.5	34	10	4.8	1.7	2.4	2.9
14	5.5	3.0	60	16	116	7.0	29	6.8	3.9	1.5	2.4	2.5
15	5.2	2.8	33	14	49	6.5	24	5.6	9.2	1.5	2.4	2.4
16	4.6	2.4	21	13	32	13	20	4.9	6.5	1.4	2.2	2.2
17	3.9	2.5	17	12	45	10	33	4.5	4.2	1.5	2.1	2.2
18	3.6	2.5	14	14	101	8.1	22	4.6	6.2	1.5	2.0	2.1
19	4.2	2.5	12	12	75	150	19	3.5	4.7	1.5	2.3	1.9
20	4.2	3.4	11	12	49	152	17	4.2	4.2	1.8	2.3	1.6
21	3.5	2.9	10	11	35	72	15	4.9	4.3	2.3	2.5	1.8
22	3.6	2.9	9.3	12	26	48	14	3.4	3.2	1.5	2.6	2.0
23	3.0	2.8	8.5	12	20	35	12	17	3.1	1.5	1.8	9.6
24	3.5	3.5	13	12	18	27	235	33	2.6	1.4	10	21
25	3.1	19	7.8	12	15	21	264	1000	2.3	1.5	3.9	19
26	2.8	15	7.3	12	16	18	99	294	2.2	1.5	3.0	7.3
27	2.8	7.7	7.0	11	28	23	95	182	7.1	1.4	23	5.3
28	2.7	6.1	6.6	10	18	16	78	105	5.4	1.6	8.1	4.3
29	2.6	5.1	6.4	15	15	13	55	73	3.7	21	5.6	3.2
30	3.1	4.6	6.3	15	---	15	42	53	2.6	32	4.0	3.2
31	2.6	---	6.2	14	---	12	---	41	---	14	3.6	---
TOTAL	222.3	198.7	507.5	613.7	876.5	775.9	1538	2059.6	247.4	120.5	151.6	143.8
MEAN	7.17	6.62	16.4	19.8	30.2	25.0	51.3	66.4	8.25	3.89	4.89	4.79
MAX	81	50	124	85	116	152	264	1000	31	32	23	21
MIN	2.4	2.4	3.6	5.8	9.1	6.5	11	3.4	2.2	1.3	1.8	1.6
CFSM	.30	.27	.67	.81	1.24	1.03	2.11	2.73	.34	.16	.20	.20
IN.	.34	.30	.78	.94	1.34	1.19	2.35	3.15	.38	.18	.23	.22

CUMBERLAND RIVER BASIN

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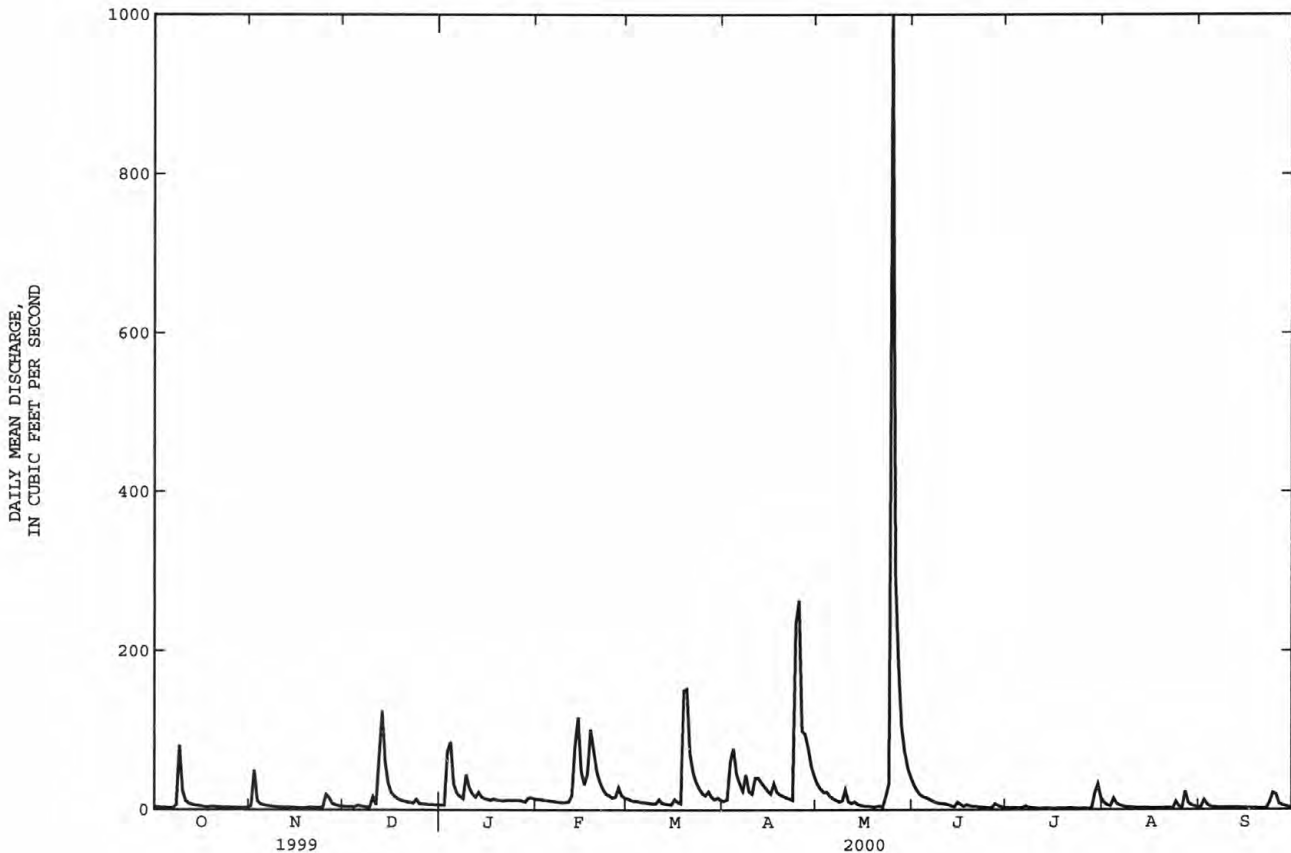
03431700 RICHLAND CREEK AT CHARLOTTE AVENUE, AT NASHVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	11.3	32.2	54.9	52.5	54.8	63.7	44.5	37.9	22.3	11.3	7.95	12.3
MAX	53.0	89.8	247	151	205	208	146	131	107	42.0	24.6	127
(WY)	1976	1987	1965	1974	1989	1975	1979	1984	1998	1979	1994	1979
MIN	.41	1.79	2.57	3.96	10.3	18.2	5.76	5.06	1.33	1.34	1.18	.92
(WY)	1966	1972	1966	1986	1968	1966	1986	1977	1988	1966	1980	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	8475.6		7455.5		33.8	
ANNUAL MEAN	23.2		20.4		71.3	
HIGHEST ANNUAL MEAN					13.6	
LOWEST ANNUAL MEAN					13.6	
HIGHEST DAILY MEAN	559 Jan 23		1000 May 25		7020 Nov 2 1990	
LOWEST DAILY MEAN	1.1 Jun 22		1.3 Jul 11		.05 Oct 8 1980	
ANNUAL SEVEN-DAY MINIMUM	1.3 Jun 17		1.5 Jul 11		.23 Oct 8 1965	
INSTANTANEOUS PEAK FLOW			3800 May 25		9470 Sep 13 1979	
INSTANTANEOUS PEAK STAGE			9.83 May 25		15.13 Sep 13 1979	
INSTANTANEOUS LOW FLOW			a1.2 Jul 11		.05 Oct 7 1980	
ANNUAL RUNOFF (CFSM)	.96		.84		1.39	
ANNUAL RUNOFF (INCHES)	12.97		11.41		18.87	
10 PERCENT EXCEEDS	57		41		74	
50 PERCENT EXCEEDS	6.7		7.7		11	
90 PERCENT EXCEEDS	2.0		2.3		1.6	

a Also occurred July 14, 18, 24.



CUMBERLAND RIVER BASIN

03432350 HARPETH RIVER AT FRANKLIN, TN

LOCATION.--Lat 35°55'14", long 86°51'56", Williamson County, Hydrologic Unit 05130204, on left bank 15 ft downstream from State Highway 96 bridge, 0.4 mi southeast of the courthouse in Franklin, and at mile 88.1.

DRAINAGE AREA.--191 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 604.42 ft above sea level.

REMARKS.--Records good except those below 5.0 ft³/s, which are poor. The Franklin Utility District diverts part of its municipal water supply from the river above the gage. This water along with other water is returned to the river through the sewage treatment plant 2.7 mi below gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0800	4,190	17.44	Apr 4	0100	3,980	16.95
Mar 20	0800	*4,730	*18.64	May 25	1300	4,170	17.40

Minimum daily discharge, 0.65 ft³/s, Aug. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.3	14	20	139	223	274	271	104	15	4.1	2.0
2	1.9	59	12	15	109	181	291	216	94	6.9	3.8	2.3
3	1.7	112	10	50	94	151	1620	212	82	6.1	4.9	3.1
4	1.6	36	3.6	515	88	178	3120	393	68	10	20	3.4
5	1.8	17	5.1	290	81	298	1300	303	58	4.4	5.1	3.5
6	1.4	9.4	6.9	160	71	165	822	207	52	1.3	3.9	3.4
7	1.2	6.0	8.7	105	62	132	590	166	47	17	1.8	3.1
8	1.4	4.3	12	83	53	129	504	134	49	11	2.8	3.9
9	23	3.7	12	132	48	97	405	110	41	10	2.5	4.1
10	25	9.8	25	307	48	74	334	108	31	4.0	2.2	4.9
11	33	8.1	37	193	52	170	333	95	31	.72	2.2	5.4
12	16	7.5	66	133	71	341	804	84	21	7.6	3.7	6.9
13	7.2	7.5	747	111	411	217	578	82	24	6.7	2.4	8.0
14	3.9	8.1	657	96	3070	172	805	72	19	1.8	1.5	8.1
15	3.2	9.0	296	85	983	138	675	60	22	6.5	.74	5.8
16	5.9	5.1	152	85	534	125	515	51	15	3.8	.65	2.3
17	7.6	2.0	98	82	412	345	438	47	26	.98	.65	1.5
18	6.0	2.2	75	75	1610	169	344	44	28	.93	.71	1.1
19	2.9	2.5	66	71	1060	904	277	47	50	1.0	.73	1.2
20	3.0	e2.5	53	75	590	3770	236	45	35	1.1	.82	1.6
21	4.1	e3.2	39	66	391	1420	206	41	19	1.2	.80	2.1
22	5.4	e4.8	33	67	293	861	188	35	18	1.3	.92	2.3
23	4.5	8.6	28	77	231	616	157	65	21	1.2	1.0	3.2
24	2.5	5.7	27	90	193	481	728	59	11	1.2	1.4	53
25	2.6	9.9	31	107	166	400	1780	2090	13	1.2	1.5	30
26	2.7	18	29	91	146	547	1020	515	4.3	1.4	1.5	41
27	3.3	20	22	73	267	522	666	513	35	1.7	1.9	13
28	3.6	16	15	64	276	451	620	332	62	1.9	1.8	4.4
29	3.0	16	13	73	207	325	450	219	37	2.6	1.9	1.6
30	3.2	17	14	152	---	393	348	164	30	3.9	2.0	.89
31	4.2	---	20	174	---	350	---	127	---	4.4	2.1	---
TOTAL	188.9	437.2	2627.3	3717	11756	14345	20428	6907	1147.3	138.83	82.02	227.09
MEAN	6.09	14.6	84.8	120	405	463	681	223	38.2	4.48	2.65	7.57
MAX	33	112	747	515	3070	3770	3120	2090	104	17	20	53
MIN	1.2	2.0	3.6	15	48	74	157	35	4.3	.72	.65	.89
CFSM	.03	.08	.44	.63	2.12	2.42	3.57	1.17	.20	.02	.01	.04
IN.	.04	.09	.51	.72	2.29	2.79	3.98	1.35	.22	.03	.02	.04

CUMBERLAND RIVER BASIN

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03432350 HARPETH RIVER AT FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	93.0	261	464	534	529	665	369	311	126	64.9	38.4	69.0
MAX	610	778	1172	1472	1358	1945	1066	1489	574	431	208	971
(WY)	1976	1980	1991	1979	1990	1975	1979	1984	1997	1989	1998	1979
MIN	.52	4.08	16.2	14.4	139	159	62.2	21.8	1.25	1.44	1.58	1.17
(WY)	1981	1981	1981	1986	1978	1985	1986	1988	1988	1988	1988	1980

SUMMARY STATISTICS

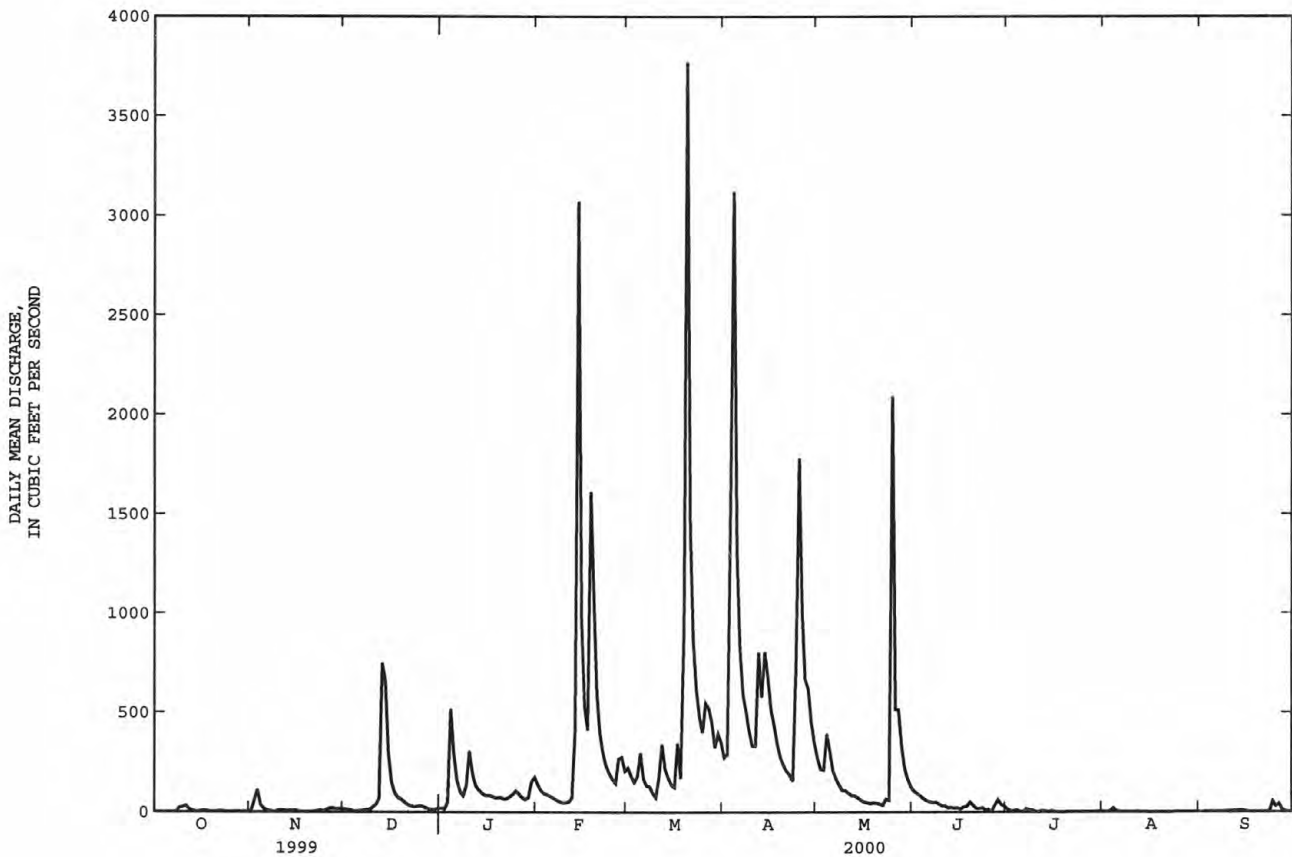
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1975 - 2000

ANNUAL TOTAL	83802.76	62001.64	
ANNUAL MEAN	230	169	293
HIGHEST ANNUAL MEAN			522
LOWEST ANNUAL MEAN			68.7
HIGHEST DAILY MEAN	10400	Jan 23	3770
LOWEST DAILY MEAN	.71	Sep 25	.65
ANNUAL SEVEN-DAY MINIMUM	.97	Sep 22	.73
INSTANTANEOUS PEAK FLOW			4730
INSTANTANEOUS PEAK STAGE			18.64
INSTANTANEOUS LOW FLOW			.60
ANNUAL RUNOFF (CFSM)	1.20		.89
ANNUAL RUNOFF (INCHES)	16.32		12.08
10 PERCENT EXCEEDS	587		460
50 PERCENT EXCEEDS	27		31
90 PERCENT EXCEEDS	1.6		1.7

e Estimated



CUMBERLAND RIVER BASIN

03432390 SPENCER CREEK NEAR FRANKLIN, TN

LOCATION.--Lat 35°56'35", long 86°51'18", Williamson County, Hydrologic Unit 05130204, on right downstream side of bridge on U.S. Highway 31, 1.5 mi northeast of Franklin.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--April 1999 to September 30, 2000. Occasional low-flow measurements, water year 1959, 1975.

GAGE.--Data collection platform and crest-stage gage at present.

REMARKS.--Records good except for estimated daily discharges, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--April 1999 to September 2000. Peak discharges greater than base discharge of 517 ft³/s and maximum(*):

Water Year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
1999	Jul 11, 1999	2300	1,360	8.47	2000	Jan 3, 2000	2300	*1,090	*9.24
						May 25, 2000	unknown	3,250	11.75

Minimum discharge, 0.77 ft³/s, June 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	12	11	e20	6.1	2.1	1.2
2	---	---	---	---	---	---	11	8.9	4.9	10	1.9	1.1
3	---	---	---	---	---	---	9.4	7.5	4.0	5.3	1.9	.99
4	---	---	---	---	---	---	17	6.7	4.2	4.3	1.9	.99
5	---	---	---	---	---	---	11	62	13	3.6	2.1	.97
6	---	---	---	---	---	---	22	105	5.2	2.9	1.9	1.1
7	---	---	---	---	---	---	13	30	4.5	3.2	1.9	1.1
8	---	---	---	---	---	---	12	21	3.9	2.9	1.9	.98
9	---	---	---	---	---	---	11	17	3.3	2.5	2.0	1.0
10	---	---	---	---	---	---	9.7	e25	3.0	3.9	1.9	.99
11	---	---	---	---	---	---	8.5	12	2.8	76	3.8	.88
12	---	---	---	---	---	---	7.4	9.7	2.5	13	6.9	.87
13	---	---	---	---	---	---	6.6	9.5	e2.3	9.1	4.5	3.3
14	---	---	---	---	---	---	7.0	8.0	e5.0	7.2	3.1	1.5
15	---	---	---	---	---	---	30	6.6	e4.1	5.7	2.7	1.1
16	---	---	---	---	---	---	11	5.7	3.4	5.9	2.6	.87
17	---	---	---	---	---	---	9.3	5.0	2.7	5.8	2.1	.80
18	---	---	---	---	---	---	7.8	12	2.3	5.0	2.0	.78
19	---	---	---	---	---	---	7.0	5.9	2.2	4.3	1.9	.79
20	---	---	---	---	---	---	5.9	4.8	1.9	4.0	2.0	14
21	---	---	---	---	---	---	5.3	4.3	1.9	4.0	2.0	13
22	---	---	---	---	---	---	4.8	4.2	1.8	3.8	1.8	4.0
23	---	---	---	---	---	---	5.4	3.5	1.8	3.3	1.9	2.5
24	---	---	---	---	---	---	4.7	3.2	13	3.4	9.6	1.9
25	---	---	---	---	---	---	4.1	2.9	13	3.4	7.0	1.7
26	---	---	---	---	---	---	9.8	2.9	5.0	3.3	2.9	1.7
27	---	---	---	---	---	---	8.4	2.5	29	3.3	2.0	1.8
28	---	---	---	---	---	---	5.6	2.3	19	3.2	1.8	1.6
29	---	---	---	---	---	---	21	2.0	13	2.9	1.6	6.5
30	---	---	---	---	---	---	13	1.9	8.0	2.6	1.5	3.2
31	---	---	---	---	---	---	---	3.3	---	2.3	1.4	---
TOTAL	---	---	---	---	---	---	310.7	406.3	200.7	216.2	84.6	73.21
MEAN	---	---	---	---	---	---	10.4	13.1	6.69	6.97	2.73	2.44
MAX	---	---	---	---	---	---	30	105	29	76	9.6	14
MIN	---	---	---	---	---	---	4.1	1.9	1.8	2.3	1.4	.78
CFSM	---	---	---	---	---	---	1.01	1.27	.65	.68	.27	.24
IN.	---	---	---	---	---	---	1.12	1.46	.72	.78	.31	.26

CUMBERLAND RIVER BASIN

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03432390 SPENCER CREEK NEAR FRANKLIN, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	8.3	4.2	2.1	8.5	14	10	e20	e16	3.6	2.9	2.0
2	1.4	65	3.8	2.5	7.7	13	17	e19	e14	3.2	2.4	3.0
3	1.6	9.1	3.9	104	7.1	12	e45	e24	e12	2.9	2.2	2.5
4	2.0	7.0	4.2	70	6.4	11	e39	e28	e10	2.7	24	1.9
5	2.7	5.2	8.6	24	5.8	10	e35	e20	e9.0	2.5	5.8	1.9
6	1.7	4.2	6.3	15	5.7	8.6	e25	e16	e8.2	2.5	4.0	1.7
7	1.4	3.6	4.9	10	5.9	8.0	e18	e12	e7.7	2.3	3.4	1.7
8	1.8	3.5	4.0	8.3	4.7	7.3	e31	e9.3	e6.9	2.3	17	1.7
9	47	3.5	3.7	30	4.5	7.0	e23	e15	e6.3	2.2	5.2	1.6
10	9.9	3.4	17	13	4.3	8.4	e17	e25	e5.8	2.2	7.1	1.8
11	7.0	3.1	5.8	11	5.3	21	e28	e17	e5.4	4.7	4.3	1.7
12	5.5	2.7	50	10	13	11	e25	e10	e5.2	10	3.3	14
13	4.9	2.7	54	18	75	9.9	e20	e16	e4.9	4.8	2.7	3.4
14	5.1	2.6	20	11	85	8.3	e18	e10	e4.7	3.4	2.2	2.5
15	4.3	2.8	16	11	38	7.2	e16	e8.8	e4.5	2.9	2.0	2.2
16	3.3	2.6	12	12	28	11	e14	e6.8	e4.2	2.5	2.0	1.7
17	2.7	2.8	9.8	9.8	51	8.6	e20	e5.6	3.7	2.3	1.9	1.8
18	3.5	3.2	8.5	11	62	7.3	e13	e5.0	5.0	2.1	2.2	1.5
19	3.5	4.0	7.3	9.8	44	96	e11	e4.5	5.0	2.6	1.6	1.2
20	3.5	6.2	6.4	8.7	33	80	e10	e6.0	5.8	3.5	1.5	1.3
21	3.1	5.3	5.6	7.3	27	39	e9.0	e5.0	4.8	3.2	1.9	1.6
22	3.0	4.5	6.0	7.0	23	28	e7.9	e4.5	4.1	2.3	2.0	1.7
23	3.1	3.8	7.6	8.7	20	23	e7.7	e18	3.0	7.2	1.7	3.1
24	3.7	8.6	4.3	8.1	18	19	e121	e20	3.0	2.5	3.0	45
25	3.7	27	3.8	7.3	16	30	e131	e550	3.1	2.1	1.6	16
26	4.1	14	3.9	6.6	16	20	e53	e195	3.0	1.9	1.8	6.4
27	4.0	7.9	3.3	6.0	35	21	e51	e121	6.9	1.9	24	4.2
28	3.5	6.6	3.1	5.0	19	16	e33	e82	6.6	1.9	4.4	3.3
29	4.1	5.4	2.8	11	16	13	e26	e55	4.2	5.3	4.0	3.0
30	4.3	4.6	2.5	10	---	16	e22	e26	3.2	8.5	2.7	2.5
31	4.3	---	2.3	9.6	---	12	---	e20	---	3.9	2.4	---
MEAN	5.03	7.77	9.54	15.4	23.6	19.2	29.9	44.3	6.21	3.42	4.75	4.60
MAX	47	65	54	104	85	96	131	550	16	10	24	45
MIN	1.4	2.6	2.3	2.1	4.3	7.0	7.7	4.5	3.0	1.9	1.5	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.03	7.77	9.54	15.4	23.6	19.2	20.1	28.7	6.45	5.20	3.74	3.52
MAX	5.03	7.77	9.54	15.4	23.6	19.2	29.9	44.3	6.69	6.97	4.75	4.60
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000
MIN	5.03	7.77	9.54	15.4	23.6	19.2	10.4	13.1	6.21	3.42	2.73	2.44
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000	1999	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL MEAN							14.5			14.5		
HIGHEST ANNUAL MEAN										14.5		2000
LOWEST ANNUAL MEAN										14.5		2000
HIGHEST DAILY MEAN				105	May 6		550	May 25		550	May 25	2000
LOWEST DAILY MEAN				.78	Sep 18		1.2	Sep 19		.78	Sep 18	1999
ANNUAL SEVEN-DAY MINIMUM				.99	Sep 6		1.5	Sep 16		.99	Sep 6	1999
INSTANTANEOUS PEAK FLOW							3250	May 25		3250	May 25	2000
INSTANTANEOUS PEAK STAGE							a11.75	May 25		a11.75	May 25	2000
INSTANTANEOUS LOW FLOW							.77	Jun 30				
10 PERCENT EXCEEDS				13			28			24		
50 PERCENT EXCEEDS				4.0			6.1			5.1		
90 PERCENT EXCEEDS				1.7			2.1			1.9		

a From high-water mark.

e Estimated

CUMBERLAND RIVER BASIN

03432400 HARPETH RIVER BELOW FRANKLIN, TN

LOCATION.--Lat 35°56'53", long 86°52'54", Williamson County, Hydrologic Unit 05130204, on right bank 0.1 mi below bridge on U.S. Highway 431, 1.2 mi downstream from Spence Creek, 1.8 mi northwest of the courthouse in Franklin, and at mile 84.3.

DRAINAGE AREA.--210 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--August 1988 to September 1999, discharge for gage height of 6.00 ft and below only, October 1999 to current year.

GAGE.--Data collection platform.

REMARKS.--Records good. Flow is affected by Franklin sewage treatment plant outflow 1.1 mi upstream. Periodic observations of water temperature and specific conductance are published in the report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 28.97 ft, Feb. 4, 1990; minimum discharge, 3.0 ft³/s, Aug. 19, 1988, Sept. 12, 18, 1999; minimum daily, 4.1 ft³/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0845	4,700	17.18	Apr 4	0130	4,350	16.50
Mar 20	0845	*5,130	*18.10	May 25	1345	4,540	16.85

Minimum discharge, 3.2 ft³/s, Sept. 12, 23.

Minimum daily discharge, 8.1 ft³/s, Oct. 8, July 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	26	31	220	248	302	318	142	38	14	11
2	11	179	25	28	182	211	319	263	128	25	12	10
3	8.4	155	21	111	161	191	1620	293	111	22	11	12
4	9.1	67	14	712	150	192	3500	415	93	28	71	9.8
5	11	38	25	390	143	322	1400	344	81	21	27	8.5
6	9.8	26	21	230	127	220	859	247	72	13	21	8.6
7	9.2	19	21	157	115	167	632	200	64	26	16	9.0
8	8.1	15	25	123	98	142	575	166	65	27	29	8.9
9	104	14	28	198	90	128	441	140	58	27	22	10
10	48	17	53	370	90	124	369	150	46	19	21	9.1
11	51	18	64	258	97	208	393	126	48	13	19	8.5
12	33	16	296	187	129	327	813	110	37	28	18	23
13	22	16	905	173	502	247	613	111	40	33	15	19
14	16	16	662	142	3560	192	797	96	33	18	12	14
15	14	16	324	125	1190	156	694	81	38	19	10	15
16	15	15	191	127	686	159	539	69	29	17	9.3	15
17	16	11	135	120	538	335	479	64	50	11	8.9	15
18	17	9.9	111	114	1790	254	373	59	47	9.9	9.6	12
19	12	10	97	105	1210	963	313	62	60	12	9.1	9.4
20	12	13	77	112	738	4200	307	60	54	11	8.6	9.0
21	11	12	59	101	532	1550	261	62	37	15	9.0	8.7
22	14	16	53	98	414	894	230	51	33	11	11	9.1
23	14	18	47	113	338	648	196	128	37	9.8	8.3	12
24	11	18	44	126	289	508	865	83	24	10	11	129
25	9.5	48	45	e145	247	436	2080	2730	28	9.0	11	70
26	11	58	44	e127	215	562	1140	655	17	9.4	9.7	74
27	8.4	41	34	e113	383	543	752	629	62	8.1	42	37
28	10	33	28	115	391	474	688	410	88	8.2	18	24
29	9.6	31	26	136	302	351	505	290	58	14	15	16
30	9.8	32	26	225	---	407	392	219	50	23	12	12
31	8.7	---	33	262	---	372	---	172	---	16	10	---
TOTAL	555.6	989.9	3560	5374	14927	15731	22447	8803	1730	551.4	520.5	628.6
MEAN	17.9	33.0	115	173	515	507	748	284	57.7	17.8	16.8	21.0
MAX	104	179	905	712	3560	4200	3500	2730	142	38	71	129
MIN	8.1	9.9	14	28	90	124	196	51	17	8.1	8.3	8.5

CUMBERLAND RIVER BASIN

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03432400 HARPETH RIVER BELOW FRANKLIN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

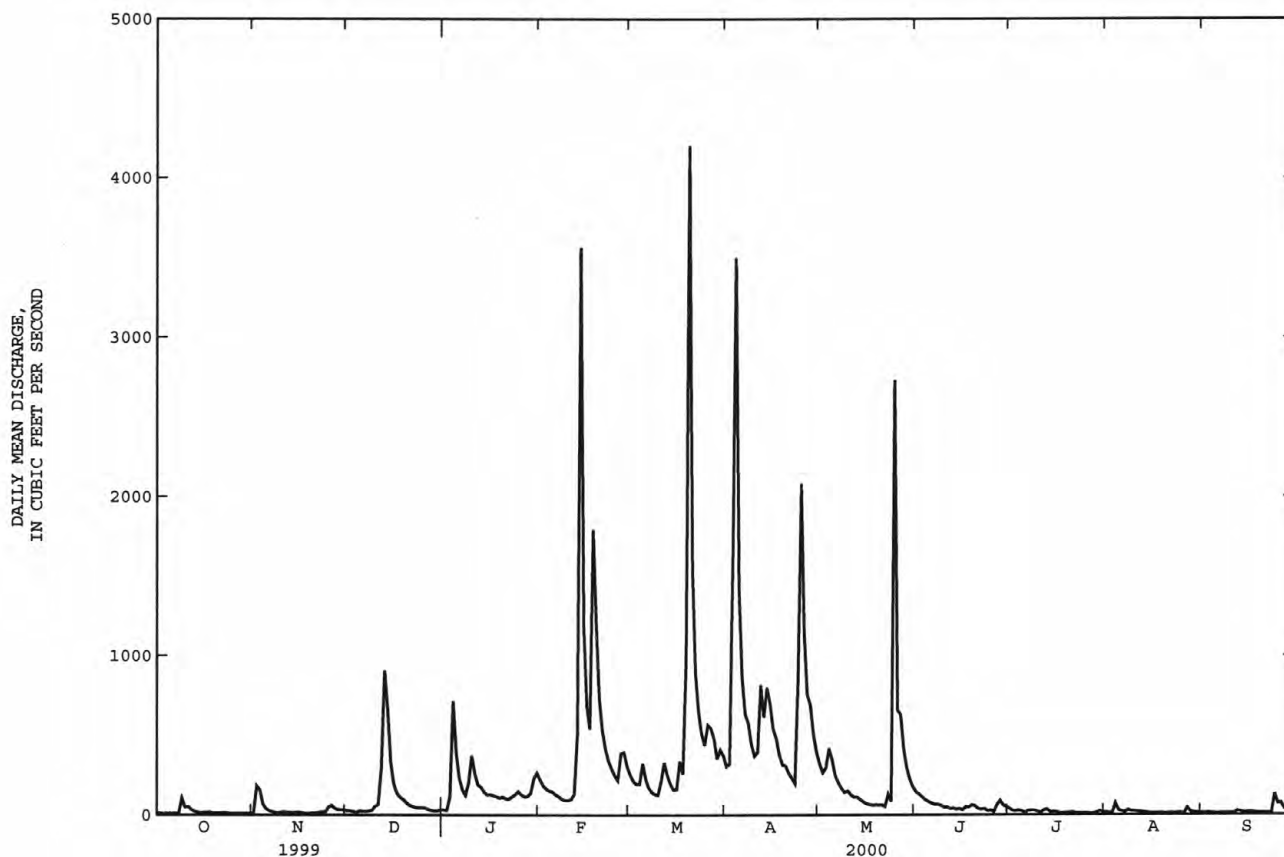
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	35.2	25.1	115	173	515	507	336	224	60.2	33.4	23.7	22.8
MAX	104	33.0	115	173	515	507	748	284	81.2	45.9	49.4	43.7
(WY)	1995	2000	2000	2000	2000	2000	2000	2000	1993	1994	1994	1994
MIN	7.68	16.7	115	173	515	507	110	164	40.5	17.8	8.22	10.0
(WY)	1994	1999	2000	2000	2000	2000	1999	1994	1999	2000	1988	1993

SUMMARY STATISTICS

WATER YEARS 1988 - 2000

ANNUAL MEAN	207
HIGHEST ANNUAL MEAN	207
LOWEST ANNUAL MEAN	207
HIGHEST DAILY MEAN	4200
LOWEST DAILY MEAN	4.1
ANNUAL SEVEN-DAY MINIMUM	4.4
INSTANTANEOUS PEAK STAGE	28.97
INSTANTANEOUS LOW FLOW	3.0
10 PERCENT EXCEEDS	321
50 PERCENT EXCEEDS	76
90 PERCENT EXCEEDS	10

e Estimated



CUMBERLAND RIVER BASIN

03433500 HARPETH RIVER AT BELLEVUE, TN

LOCATION.--Lat 36°03'16", long 86°55'42", Davidson County, Hydrologic Unit 05130204, on right bank 45 ft upstream from bridge on State Highway 100, 0.1 mi downstream from Little Harpeth River, 0.9 mi southeast of Bellevue, and at mile 62.1.

DRAINAGE AREA.--408 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--April 1920 to current year. Monthly discharge only November 1929 to December 1931, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1920-30, 1932-35. WSP 1386: 1948. WSP 1556: Drainage area. WSP 1910: 1960.

GAGE.--Data collection platform. Datum of gage is 541.04 ft above sea level (levels by U.S. Army Corps of Engineers). Apr. 11, 1920, to Oct. 31, 1929, Jan. 1, 1932, to Sept. 30, 1933, nonrecording gage at site 2.8 mi downstream at datum 7.85 ft lower.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of Feb. 13, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	1100	*8,240	*12.97	No other peak greater than base discharge.			

Minimum discharge, 8.8 ft³/s, Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	23	53	59	343	482	514	709	325	73	41	17
2	21	162	46	59	290	418	513	602	278	56	32	16
3	17	215	44	141	255	372	1360	532	244	41	27	24
4	16	165	43	1790	236	350	5760	737	218	36	36	24
5	14	88	39	929	217	432	2720	672	192	39	105	19
6	13	63	43	572	197	401	1550	507	171	35	50	15
7	14	48	54	427	180	317	1140	419	147	26	38	13
8	14	41	46	348	161	279	1060	364	130	31	30	13
9	69	35	49	513	145	256	853	312	124	39	34	14
10	164	29	68	710	134	241	712	328	108	34	37	14
11	87	28	106	602	139	270	670	289	92	29	30	15
12	79	34	125	453	196	463	1280	249	86	33	31	14
13	56	33	1010	423	387	417	1110	231	72	52	24	20
14	38	31	1130	328	5000	336	1210	209	72	54	22	31
15	30	29	681	259	2400	291	1240	181	64	33	19	18
16	27	29	393	245	1330	275	1010	157	68	28	15	15
17	24	28	264	239	988	418	964	142	60	27	14	15
18	24	26	204	232	2840	446	825	130	89	23	12	14
19	26	22	172	211	2470	976	688	121	95	21	13	14
20	26	25	154	210	1530	6260	594	121	112	20	13	12
21	21	26	126	198	1110	3200	635	128	90	21	12	11
22	20	30	102	187	886	1660	513	120	68	21	12	10
23	19	32	92	199	727	1180	452	206	59	19	11	12
24	21	40	85	211	624	946	1510	207	59	17	19	18
25	21	47	76	239	545	795	5190	5810	45	15	16	198
26	19	121	77	240	458	842	2630	2060	46	14	15	126
27	17	110	72	209	585	827	1560	1500	42	14	21	89
28	19	83	66	184	697	780	1400	981	150	13	49	53
29	17	64	57	189	559	607	1070	675	138	17	31	35
30	18	54	55	255	---	586	862	515	89	52	24	26
31	20	---	53	367	---	643	---	404	---	70	21	---
TOTAL	993	1761	5585	11228	25629	25766	41595	19618	3533	1003	854	915
MEAN	32.0	58.7	180	362	884	831	1386	633	118	32.4	27.5	30.5
MAX	164	215	1130	1790	5000	6260	5760	5810	325	73	105	198
MIN	13	22	39	59	134	241	452	120	42	13	11	10
CFSM	.08	.14	.44	.89	2.17	2.04	3.40	1.55	.29	.08	.07	.07
IN.	.09	.16	.51	1.02	2.34	2.35	3.79	1.79	.32	.09	.08	.08

CUMBERLAND RIVER BASIN

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03433500 HARPETH RIVER AT BELLEVUE, TN--Continued

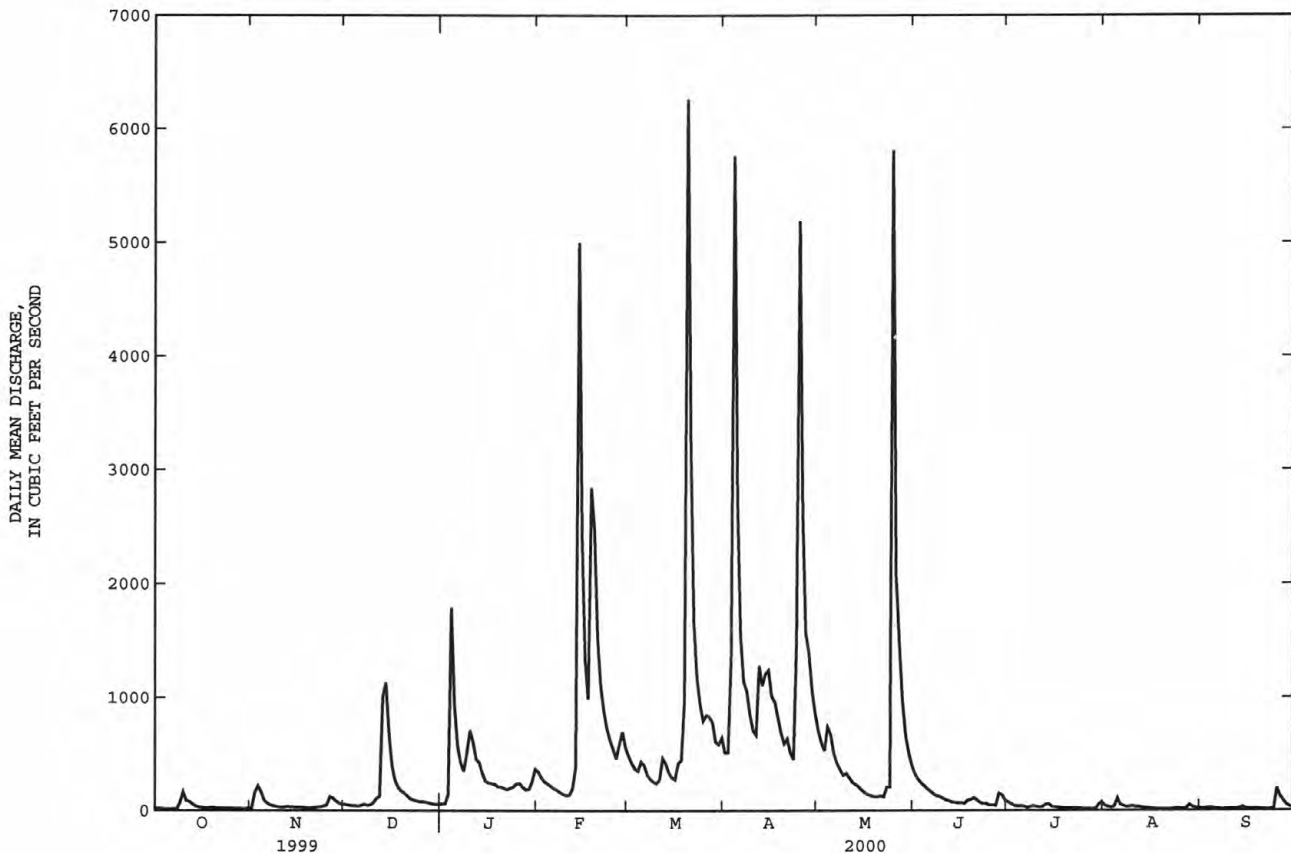
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	113	365	831	1167	1275	1340	880	570	284	145	113	117
MAX	953	1678	3952	4305	3606	4263	2579	3232	1834	827	663	1685
(WY)	1976	1987	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	1.90	10.4	32.3	40.5	90.2	167	138	38.7	13.1	15.6	5.76	1.28
(WY)	1932	1940	1940	1940	1941	1941	1967	1941	1988	1954	1954	1948

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1920 - 2000	
ANNUAL TOTAL	176796.1		138480		596	
ANNUAL MEAN	484		378		1157	
HIGHEST ANNUAL MEAN					137	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	12800	Jan 23	6260	Mar 20	32400	Mar 13 1975
LOWEST DAILY MEAN	7.1	Sep 8	10	Sep 22	.00	Oct 5 1922
ANNUAL SEVEN-DAY MINIMUM	7.9	Sep 6	12	Aug 17	.07	Oct 4 1922
INSTANTANEOUS PEAK FLOW			8240	May 25	40000	Feb 13 1948
INSTANTANEOUS PEAK STAGE			12.97	May 25	a24.34	Feb 13 1948
INSTANTANEOUS LOW FLOW			8.8	Sep 21	b.00	Oct 5 1922
ANNUAL RUNOFF (CFSM)	1.19		.93		1.46	
ANNUAL RUNOFF (INCHES)	16.12		12.63		19.86	
10 PERCENT EXCEEDS	1180		978		1380	
50 PERCENT EXCEEDS	102		104		189	
90 PERCENT EXCEEDS	14		17		17	

a From floodmarks.

b Also occurred Oct. 6-10, 1922.



CUMBERLAND RIVER BASIN

03434500 HARPETH RIVER NEAR KINGSTON SPRINGS, TN

LOCATION.--Lat 36°07'19", long 87°05'56", Cheatham County, Hydrologic Unit 05130204, on right bank 400 ft upstream from bridge on U.S. Highway 70, 1.7 mi northeast of Kingston Springs, 3.0 mi downstream from Turnbull Creek, and at mile 32.4.

DRAINAGE AREA.--681 mi², includes 15 mi² without surface drainage.

PERIOD OF RECORD.--October 1924 to current year. Prior to July 1925 monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 953: 1927, 1933, 1935-36. WSP 1033: 1927(M), 1932-33(M), 1935(M), 1937(M). WSP 1706: 1945(P). WSP 2110: Drainage area.

GAGE.--Data collection platform. Datum of gage is 447.04 ft above sea level. July 8, 1925, to Jan. 22, 1939, nonrecording gage at site 150 ft downstream, and Jan. 22, 1939, to July 26, 1988, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of Jan. 7, 1946. Flood of March 1902 reached a stage about 3 ft lower than that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 25	0830	11,000	14.42	May 25	0930	*14,800	*18.07

Minimum discharge, 28 ft³/s, Sept. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	81	137	139	481	764	766	1190	711	163	147	61
2	74	196	134	144	431	659	698	1010	567	143	115	55
3	75	354	130	165	388	574	1250	864	475	125	92	53
4	74	305	129	2160	360	521	6390	953	412	108	126	60
5	71	238	133	1590	333	495	4490	1010	371	96	153	58
6	68	178	154	905	309	603	2450	816	333	97	170	55
7	65	149	138	628	290	490	1760	670	293	104	117	48
8	65	132	139	473	274	416	1780	569	261	92	100	45
9	210	121	133	487	254	381	1440	493	239	78	85	45
10	338	112	205	840	240	355	1160	590	227	88	75	45
11	265	107	223	845	233	363	1060	496	208	85	86	45
12	175	103	251	630	305	455	1740	420	188	83	75	45
13	155	104	1420	559	516	583	1810	390	181	84	69	42
14	132	105	2030	509	4640	482	1620	351	164	108	65	45
15	112	103	1240	428	4120	417	1780	314	164	109	60	49
16	101	100	739	384	1950	387	1490	288	171	86	56	51
17	95	99	497	368	1370	460	1540	260	162	70	50	41
18	89	99	379	365	2710	640	1410	243	177	68	45	37
19	86	98	316	352	3510	1140	1140	225	204	68	42	37
20	88	105	285	332	2380	6280	967	217	196	67	40	35
21	91	111	257	324	1640	5270	945	228	203	68	39	34
22	90	104	224	311	1280	2560	810	225	176	66	40	32
23	83	100	201	311	1050	1790	704	319	150	58	37	35
24	81	103	189	330	908	1400	2440	404	136	55	40	54
25	81	114	177	329	799	1190	9000	10500	132	51	53	167
26	84	182	168	354	700	1130	4720	4900	119	47	59	269
27	85	236	169	337	797	1240	2690	4040	123	46	126	194
28	83	207	164	308	1000	1160	2330	2380	169	53	98	152
29	82	174	156	298	893	948	1830	1540	238	e55	93	113
30	82	150	145	334	---	801	1440	1160	207	e170	93	94
31	79	---	142	423	---	883	---	898	---	e210	71	---
TOTAL	3343	4370	10804	15962	34161	34837	63650	37963	7357	2801	2517	2096
MEAN	108	146	349	515	1178	1124	2122	1225	245	90.4	81.2	69.9
MAX	338	354	2030	2160	4640	6280	9000	10500	711	210	170	269
MIN	65	81	129	139	233	355	698	217	119	46	37	32
MED	84	112	177	365	797	640	1580	569	200	84	75	48
CFSM	.16	.21	.51	.76	1.73	1.65	3.12	1.80	.36	.13	.12	.10
IN.	.18	.24	.59	.87	1.87	1.90	3.48	2.07	.40	.15	.14	.11

CUMBERLAND RIVER BASIN

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03434500 HARPETH RIVER NEAR KINGSTON SPRINGS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	226	614	1300	1875	2044	2163	1489	1028	528	273	211	213
MAX	1516	2761	6274	6975	6078	6806	3942	5107	2849	1071	1099	2530
(WY)	1976	1980	1927	1937	1950	1975	1927	1984	1928	1989	1926	1979
MIN	28.9	63.2	94.9	116	187	279	269	99.3	59.0	62.7	38.5	25.0
(WY)	1932	1955	1936	1940	1941	1941	1967	1941	1988	1954	1954	1939

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

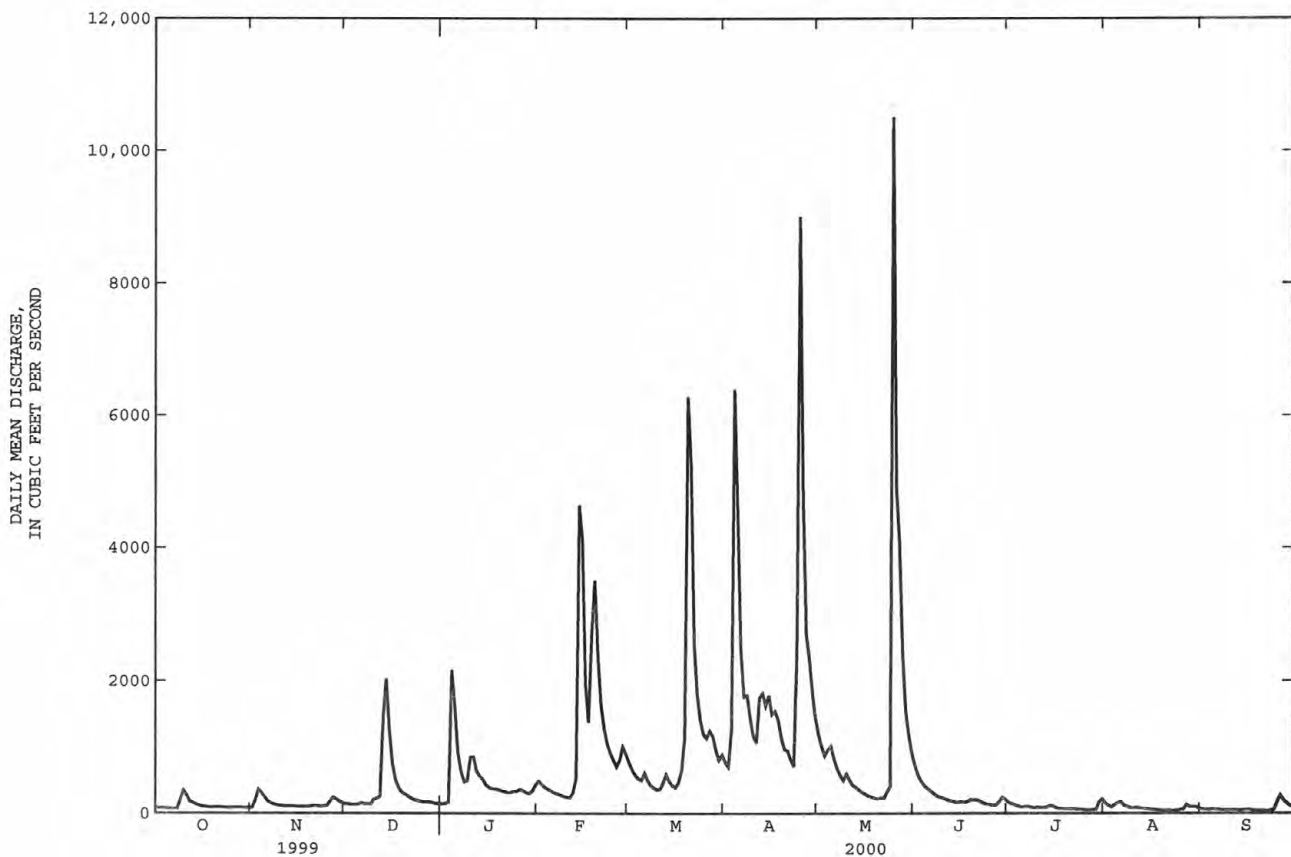
FOR 2000 WATER YEAR

WATER YEARS 1925 - 2000

ANNUAL TOTAL	302254	219861	
ANNUAL MEAN	828	601	993
HIGHEST ANNUAL MEAN			2000
LOWEST ANNUAL MEAN			249
HIGHEST DAILY MEAN	19700	Jan 23	43100
LOWEST DAILY MEAN	41	Sep 11	16
ANNUAL SEVEN-DAY MINIMUM	44	Sep 6	18
INSTANTANEOUS PEAK FLOW			60000
INSTANTANEOUS PEAK STAGE			a32.20
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	1.22	.88	1.46
ANNUAL RUNOFF (INCHES)	16.51	12.01	19.81
10 PERCENT EXCEEDS	1990	1460	2240
50 PERCENT EXCEEDS	238	207	350
90 PERCENT EXCEEDS	70	56	71

a From high-water mark in gage house.

e Estimated



CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°19'22", long 87°13'42", Cheatham County, Hydrologic Unit 05130205, on left bank 0.4 mi downstream from Cheatham Dam, 2.0 mi southwest of Neptune, 2.6 mi upstream from Half Pone Creek, 9.7 mi west of Ashland City, and at mile 148.4.

DRAINAGE AREA.--14,163 mi².

PERIOD OF RECORD.--February 1993 to September 1997, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1993 to September 1997, October 1998 to current year.

pH: February 1993 to September 1997, October 1998 to current year.

WATER TEMPERATURE: February 1993 to September 1997, October 1998 to current year.

DISSOLVED OXYGEN: February 1993 to September 1997, October 1998 to current year.

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cheatham Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 298 microsiemens, May 4, 1995; minimum, 152 microsiemens, Jan. 23, 1999.

pH: Maximum, 8.9 units, May 16, 17, 18, 1993; minimum, 6.0 units, June 13, 1993.

WATER TEMPERATURE: Maximum, 28.4°C, Aug. 2, 3, 1995; minimum, 2.3°C, Feb. 6, 1996.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L, Feb. 12, 2000; minimum, 3.7 mg/L, June 29, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 283 microsiemens, Mar. 8, 9; minimum, 171 microsiemens, May 25.

pH: Maximum, 8.7 units, Feb. 10, 11, 12, 13; minimum, 7.2 units, May 25, 26, Sept. 10.

WATER TEMPERATURE: Maximum, 28.0°C, July 12, 13, 18, 19; minimum, 4.2°C, Feb. 6.

DISSOLVED OXYGEN: Maximum, 14.9 mg/L, Feb. 12; minimum, 5.1 mg/L, Oct. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	190	185	188	236	223	227	231	226	227	242	234	238
2	190	186	188	227	221	224	237	226	231	235	232	234
3	191	186	188	227	219	223	238	226	233	235	224	233
4	188	183	186	232	220	228	226	217	220	244	228	233
5	187	184	186	230	214	219	230	217	221	246	234	242
6	188	186	187	230	215	222	234	226	229	242	237	240
7	192	186	189	242	229	234	238	232	235	247	238	242
8	193	190	192	242	231	234	240	235	238	253	247	250
9	194	192	193	232	223	229	237	230	233	258	251	254
10	202	193	196	228	222	225	239	231	237	258	252	255
11	202	199	200	224	212	218	238	224	233	267	251	257
12	208	200	203	215	211	213	231	220	225	269	258	263
13	211	207	209	220	213	218	234	227	231	264	253	258
14	215	210	212	220	217	219	241	226	233	264	253	256
15	215	211	213	223	217	219	239	228	234	259	253	257
16	219	213	216	222	216	---	248	234	239	264	257	261
17	221	218	220	219	214	217	239	231	236	262	244	257
18	224	220	222	225	219	222	238	228	234	253	244	248
19	224	221	222	234	224	230	243	234	240	250	240	244
20	222	214	217	235	221	229	245	239	242	253	242	248
21	219	212	215	222	214	217	241	238	239	246	237	242
22	220	213	216	224	214	219	243	240	242	239	233	236
23	219	212	214	228	223	225	244	235	239	246	236	240
24	218	213	214	224	218	220	260	239	248	249	244	247
25	233	218	225	222	214	218	261	241	253	247	241	244
26	226	218	222	225	217	221	241	235	239	254	242	247
27	228	219	223	226	217	221	243	234	238	258	244	247
28	230	216	223	225	216	220	247	235	238	261	252	256
29	236	218	228	225	217	220	248	241	244	256	247	252
30	227	210	214	231	225	228	247	240	243	254	245	249
31	223	209	215	---	---	---	247	237	242	265	247	255
MONTH	236	183	208	242	211	223	261	217	236	269	224	248

CUMBERLAND RIVER BASIN

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03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	272	251	260	278	267	271	264	252	256	255	238	248
2	269	260	264	282	274	277	259	256	258	255	238	249
3	270	259	262	278	272	275	264	255	259	256	244	252
4	267	255	261	282	276	280	262	250	256	261	248	254
5	264	255	259	282	273	277	257	235	244	258	247	253
6	265	257	260	281	274	277	244	238	242	255	246	252
7	272	264	268	282	271	275	250	243	247	263	243	253
8	272	258	263	283	272	277	252	248	250	264	246	254
9	267	255	261	283	274	277	251	247	249	262	246	256
10	265	256	260	280	276	278	249	221	235	261	243	252
11	271	257	261	279	265	268	236	212	226	257	247	253
12	272	259	266	275	267	271	232	212	225	262	244	253
13	263	238	256	277	269	273	239	222	229	265	246	254
14	269	215	244	278	270	274	223	212	218	255	241	248
15	259	231	244	280	271	275	224	222	223	254	247	251
16	235	228	231	277	271	273	233	218	222	255	241	246
17	244	233	239	275	258	264	243	230	237	262	245	250
18	250	237	244	260	256	258	239	224	232	255	244	247
19	264	248	256	275	256	262	234	225	231	256	240	243
20	262	250	256	282	228	261	237	226	232	260	240	245
21	258	251	254	229	216	222	236	224	232	256	238	243
22	252	239	246	240	225	234	239	226	233	259	241	246
23	253	244	248	251	239	241	243	233	239	253	242	246
24	255	248	253	245	239	242	241	229	234	257	251	253
25	266	254	258	255	244	249	241	211	222	274	171	216
26	269	257	263	263	255	259	247	223	235	241	208	223
27	271	257	263	269	261	264	247	234	242	244	240	242
28	274	264	268	274	264	271	245	234	240	254	241	249
29	272	262	266	264	258	261	248	243	246	259	252	255
30	---	---	---	268	256	261	258	241	252	256	248	253
31	---	---	---	270	266	268	---	---	---	248	237	244
MONTH	274	215	256	283	216	265	264	211	238	274	171	248

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	240	229	236	238	229	235	228	222	224	220	213	216
2	242	224	232	234	228	231	231	220	227	215	211	213
3	240	223	232	235	228	231	226	220	223	215	208	212
4	235	227	231	232	224	228	227	221	224	213	207	210
5	240	224	231	231	226	228	228	222	226	214	205	210
6	241	223	232	230	223	225	228	224	226	212	206	209
7	242	220	227	225	221	223	227	222	224	211	204	207
8	232	217	220	225	220	223	230	224	227	210	206	208
9	235	217	227	226	222	223	234	226	228	216	207	211
10	231	229	230	229	223	225	230	225	227	217	213	215
11	235	230	232	229	216	223	235	223	227	214	211	213
12	236	232	234	229	223	225	229	222	226	214	209	212
13	239	231	233	225	219	221	226	221	224	213	209	212
14	239	230	233	223	219	221	227	224	225	216	208	212
15	234	227	230	222	218	220	230	222	225	218	211	214
16	234	223	229	219	216	218	228	222	225	222	215	217
17	225	219	222	219	216	217	229	221	224	219	215	217
18	224	219	221	220	215	217	227	217	222	224	215	217
19	224	220	222	221	217	218	220	214	217	227	213	218
20	227	215	219	223	220	222	222	215	219	224	215	218
21	219	213	217	223	216	220	219	213	215	219	216	217
22	223	213	219	219	215	217	216	212	214	218	215	217
23	224	218	221	218	214	216	217	213	215	221	218	220
24	224	217	221	218	210	213	217	214	215	222	215	218
25	221	213	217	213	208	211	224	214	218	217	213	215
26	238	214	225	215	212	214	223	216	218	215	211	213
27	238	231	233	220	215	218	220	214	218	217	212	215
28	235	232	234	222	220	221	219	211	216	217	213	215
29	234	227	232	222	220	221	218	212	215	219	217	218
30	238	229	232	223	218	220	219	213	216	220	217	218
31	---	---	---	225	218	222	219	213	216	---	---	---
MONTH	242	213	227	238	208	222	235	211	221	227	204	214

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.6	7.5	7.8	7.5	7.7	7.6	8.1	7.9	8.1	7.9	8.1	7.9
2	7.8	7.5	7.9	7.8	7.9	7.7	8.2	7.9	8.1	8.0	8.1	7.9
3	7.9	7.6	7.9	7.7	7.9	7.8	8.2	7.9	8.1	7.9	8.1	7.9
4	7.8	7.7	7.8	7.7	7.9	7.8	8.0	7.9	8.2	8.0	8.1	7.9
5	7.8	7.5	7.9	7.7	7.9	7.8	7.9	7.8	8.2	7.9	8.1	7.9
6	7.7	7.4	7.8	7.6	7.9	7.8	7.8	7.5	8.3	8.0	8.2	8.0
7	7.8	7.5	7.7	7.5	7.9	7.8	7.6	7.4	8.4	8.1	8.3	8.1
8	7.9	7.7	7.7	7.5	7.9	7.8	7.6	7.5	8.5	8.3	8.3	8.1
9	7.8	7.7	7.8	7.7	7.9	7.8	7.7	7.6	8.6	8.4	8.2	8.0
10	7.7	7.7	7.8	7.7	7.9	7.8	7.9	7.7	8.7	8.4	8.4	8.1
11	7.8	7.7	8.1	7.7	8.0	7.8	7.9	7.7	8.7	8.5	8.4	8.2
12	7.8	7.6	7.9	7.7	7.9	7.7	8.2	7.8	8.7	8.5	8.6	8.3
13	7.7	7.6	7.8	7.7	7.8	7.8	8.2	8.0	8.7	8.4	8.6	8.4
14	7.7	7.6	7.8	7.6	7.8	7.7	8.2	8.0	8.5	7.9	8.6	8.4
15	7.7	7.4	7.8	7.6	7.7	7.5	8.1	8.0	7.9	7.7	8.5	8.3
16	7.7	7.6	8.0	7.7	7.6	7.5	8.2	8.0	8.0	7.9	8.3	8.2
17	7.7	7.5	8.0	7.8	7.7	7.6	8.0	7.8	8.0	7.9	8.4	8.2
18	7.9	7.5	7.9	7.8	7.7	7.6	8.0	7.8	8.0	7.9	8.5	8.3
19	7.9	7.7	7.9	7.7	7.7	7.5	8.1	7.8	7.9	7.9	8.3	8.2
20	7.9	7.8	7.8	7.7	7.6	7.5	8.0	7.8	7.9	7.8	8.4	8.1
21	7.9	7.7	7.9	7.7	7.9	7.6	8.0	7.8	7.9	7.8	8.1	8.0
22	8.0	7.8	7.9	7.8	7.8	7.5	8.0	7.9	7.9	7.8	8.1	7.9
23	8.0	7.9	7.9	7.7	7.8	7.5	8.1	7.8	7.9	7.7	7.9	7.8
24	8.0	7.7	7.8	7.7	7.8	7.5	8.0	7.8	7.9	7.8	7.9	7.8
25	8.0	7.9	7.8	7.7	7.6	7.5	8.1	7.8	7.9	7.8	7.9	7.8
26	8.0	7.8	7.8	7.7	7.7	7.5	8.1	7.9	7.9	7.8	8.0	7.8
27	8.0	7.8	7.8	7.7	7.8	7.5	8.2	8.0	8.0	7.8	8.1	7.9
28	8.0	7.6	7.8	7.7	7.7	7.5	8.2	7.9	8.0	7.8	8.2	8.0
29	7.9	7.5	7.7	7.7	7.7	7.5	8.1	7.9	8.0	7.9	8.1	8.1
30	8.1	7.6	7.8	7.7	7.9	7.6	8.1	7.9	---	---	8.2	8.1
31	8.1	7.7	---	---	8.2	7.7	8.1	8.0	---	---	8.2	8.1
MONTH	8.1	7.4	8.1	7.5	8.2	7.5	8.2	7.4	8.7	7.7	8.6	7.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	7.9	8.1	8.0	7.8	7.7	7.7	7.5	7.8	7.6	8.1	7.8
2	8.0	7.8	8.1	7.9	7.8	7.5	8.0	7.7	7.9	7.5	8.3	7.9
3	8.0	7.9	8.1	7.9	8.0	7.5	8.0	7.7	8.0	7.8	8.1	7.8
4	8.0	7.8	8.1	7.9	7.8	7.5	7.9	7.7	8.0	7.8	8.0	7.6
5	8.0	7.8	8.2	7.9	7.9	7.5	7.9	7.6	8.0	7.8	7.8	7.5
6	8.0	7.9	8.1	7.9	7.9	7.5	7.8	7.6	8.0	7.6	7.6	7.4
7	8.0	7.9	8.1	8.0	7.8	7.4	7.7	7.6	7.9	7.7	7.6	7.3
8	8.0	7.8	8.1	7.9	7.9	7.6	7.8	7.5	8.0	7.7	7.4	7.3
9	7.9	7.8	8.1	7.9	7.8	7.5	7.7	7.5	8.0	7.8	7.4	7.3
10	7.9	7.7	8.1	7.9	7.8	7.7	7.7	7.4	7.8	7.7	7.5	7.2
11	7.8	7.8	8.1	7.9	7.8	7.7	8.2	7.6	7.9	7.6	7.6	7.4
12	7.8	7.8	8.1	7.8	7.9	7.7	8.1	7.9	7.9	7.6	7.6	7.4
13	7.8	7.7	8.0	7.7	8.1	7.7	8.1	7.9	8.1	7.6	7.7	7.5
14	7.8	7.7	7.9	7.7	8.1	7.9	8.0	7.8	8.2	7.8	7.8	7.5
15	7.8	7.7	7.9	7.7	8.1	7.9	8.0	7.9	8.3	7.8	8.0	7.7
16	7.8	7.7	7.9	7.5	7.9	7.7	8.2	7.9	8.3	8.0	7.8	7.7
17	7.9	7.8	7.8	7.4	7.8	7.7	8.4	8.1	8.3	7.8	8.0	7.7
18	7.9	7.8	7.9	7.4	7.8	7.7	8.4	8.2	8.1	7.8	8.1	7.7
19	7.9	7.8	7.9	7.7	7.8	7.8	8.4	8.1	8.1	7.8	8.1	7.4
20	7.9	7.8	7.8	7.7	7.8	7.7	8.2	8.0	7.9	7.7	8.1	7.6
21	7.9	7.8	7.8	7.4	8.0	7.8	8.0	7.9	8.1	7.8	7.9	7.6
22	8.0	7.8	7.8	7.3	8.2	7.9	8.0	7.8	8.3	8.0	7.9	7.6
23	7.9	7.8	7.8	7.6	8.1	8.0	8.0	7.8	8.3	8.0	7.8	7.6
24	8.0	7.8	7.9	7.5	8.2	8.0	8.4	7.9	8.3	8.1	7.7	7.5
25	8.0	7.6	7.8	7.2	8.0	7.8	8.4	8.0	8.4	8.1	7.6	7.4
26	7.8	7.6	7.4	7.2	8.1	7.6	8.6	8.1	8.2	8.0	7.6	7.4
27	8.0	7.8	7.5	7.4	8.2	8.0	8.6	8.3	8.0	7.7	7.5	7.4
28	8.0	7.9	7.5	7.5	8.0	7.7	8.5	8.1	7.8	7.6	7.4	7.4
29	8.0	7.9	7.5	7.4	7.7	7.5	8.1	7.9	7.8	7.5	7.4	7.3
30	8.0	7.9	7.6	7.4	7.7	7.5	7.9	7.8	7.9	7.6	7.4	7.3
31	---	---	7.7	7.6	---	---	7.8	7.6	7.9	7.6	---	---
MONTH	8.0	7.6	8.2	7.2	8.2	7.4	8.6	7.4	8.4	7.5	8.3	7.2

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.8	21.2	21.4	16.8	16.4	16.7	13.1	12.5	12.9	7.6	7.3	7.5
2	21.6	21.1	21.4	16.7	16.2	16.4	12.7	12.3	12.5	8.1	7.3	7.7
3	21.5	21.1	21.3	16.2	15.4	15.9	12.6	12.3	12.4	9.0	7.9	8.4
4	21.4	20.9	21.2	15.9	15.4	15.6	12.8	12.3	12.5	8.6	8.3	8.4
5	21.0	20.4	20.7	15.8	15.5	15.6	12.7	12.4	12.5	8.8	8.3	8.5
6	20.5	19.9	20.2	15.8	15.4	15.6	12.4	11.7	12.2	8.9	8.4	8.7
7	20.6	20.0	20.4	15.7	15.3	15.5	12.1	11.6	11.9	9.5	8.6	9.0
8	20.8	20.1	20.4	16.2	15.4	15.7	11.9	11.4	11.7	8.6	8.3	8.5
9	20.5	20.3	20.4	16.1	15.7	15.9	12.1	11.5	11.7	8.3	7.7	8.1
10	20.4	20.2	20.4	16.4	15.7	16.1	12.0	11.6	11.9	8.3	7.7	7.9
11	20.6	20.1	20.4	16.6	16.0	16.3	11.9	11.4	11.7	8.2	7.8	7.9
12	20.8	20.4	20.6	16.2	15.6	15.9	11.6	11.3	11.4	8.5	7.8	8.2
13	21.0	20.6	20.8	16.3	15.5	15.9	11.3	11.1	11.2	8.7	8.1	8.5
14	21.0	20.5	20.7	16.3	15.6	15.9	11.2	10.8	11.1	8.6	7.6	8.3
15	20.9	20.4	20.6	16.1	15.3	15.7	11.1	10.7	10.9	8.7	7.9	8.3
16	21.0	20.4	20.6	15.8	15.0	15.5	10.7	10.5	10.6	8.9	8.1	8.5
17	20.5	20.1	20.4	15.6	14.9	15.3	10.6	10.3	10.5	8.5	8.3	8.4
18	20.2	19.5	19.9	15.2	14.8	15.0	10.5	10.2	10.4	8.4	8.0	8.2
19	19.6	19.1	19.4	15.0	14.6	14.8	10.7	9.9	10.3	8.3	7.9	8.1
20	19.4	18.9	19.0	14.9	14.7	14.8	10.4	9.8	10.2	8.0	7.1	7.7
21	19.1	18.5	18.8	15.0	14.7	14.8	9.9	9.3	9.6	7.6	7.0	7.3
22	18.8	18.2	18.4	15.1	14.6	14.8	9.7	9.0	9.4	7.2	6.6	7.0
23	18.5	17.8	18.2	15.2	14.5	14.9	9.3	8.5	9.0	7.0	6.6	6.9
24	17.8	17.0	17.4	15.0	14.6	14.8	9.0	8.2	8.8	6.9	6.4	6.7
25	17.2	16.6	16.9	14.7	14.3	14.5	8.8	7.3	8.3	6.5	5.8	6.1
26	17.0	16.3	16.7	14.5	13.8	14.3	8.4	7.4	8.1	6.1	5.0	5.6
27	16.9	16.4	16.6	14.3	13.6	14.0	8.3	7.1	7.8	5.6	4.8	5.3
28	16.8	16.4	16.6	14.4	13.7	14.0	7.9	6.6	7.5	5.2	4.6	5.0
29	16.9	16.4	16.7	13.9	13.2	13.7	7.9	6.9	7.5	5.2	4.7	5.1
30	17.0	16.4	16.6	13.6	13.0	13.3	7.7	7.0	7.4	5.1	4.5	4.8
31	17.0	16.4	16.7	---	---	---	7.8	7.0	7.5	5.0	4.3	4.6
MONTH	21.8	16.3	19.3	16.8	13.0	15.2	13.1	6.6	10.4	9.5	4.3	7.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.8	4.5	4.7	12.2	11.3	11.6	14.7	14.1	14.4	16.8	16.2	16.5
2	4.8	4.3	4.5	12.2	11.3	11.8	14.9	14.6	14.7	17.3	16.7	16.9
3	5.4	4.4	4.7	12.1	11.7	11.9	15.0	14.7	14.9	17.8	17.3	17.5
4	4.9	4.4	4.7	12.1	11.3	11.6	14.7	14.5	14.6	18.0	17.6	17.8
5	4.8	4.3	4.5	12.2	11.2	11.7	14.7	14.4	14.5	18.9	18.0	18.3
6	5.1	4.2	4.5	12.3	11.6	12.0	15.0	14.1	14.5	18.9	18.5	18.7
7	6.2	4.5	4.9	13.1	12.0	12.4	15.6	15.0	15.3	19.4	18.9	19.2
8	5.8	4.8	5.1	13.6	12.4	12.7	15.6	15.1	15.4	20.0	19.4	19.7
9	5.8	4.9	5.2	13.5	12.6	13.0	15.1	14.8	15.0	20.4	19.6	19.9
10	5.7	5.1	5.4	14.0	12.8	13.4	15.0	14.3	14.5	20.7	20.2	20.4
11	5.8	5.5	5.7	13.7	13.0	13.5	14.6	14.4	14.5	20.9	20.5	20.7
12	5.8	5.5	5.6	13.9	12.9	13.3	14.6	14.1	14.4	21.1	20.7	20.9
13	6.9	5.6	6.1	13.6	12.9	13.2	14.6	14.1	14.3	21.2	20.5	20.8
14	7.7	6.3	7.2	13.8	13.1	13.5	14.1	13.9	14.0	21.4	20.6	21.0
15	8.6	7.5	8.1	14.0	13.1	13.5	14.1	13.9	14.0	21.5	21.1	21.3
16	7.7	7.1	7.4	13.3	12.6	13.1	14.6	14.0	14.3	21.6	21.2	21.4
17	7.9	7.5	7.6	13.9	12.6	13.2	14.6	14.5	14.6	21.8	21.2	21.5
18	8.7	7.9	8.3	13.8	13.2	13.4	14.8	14.4	14.6	22.2	21.4	21.8
19	9.2	8.7	8.9	13.5	13.2	13.3	15.0	14.5	14.7	22.2	21.8	22.0
20	8.9	8.6	8.7	13.4	12.9	13.2	15.2	14.7	14.9	21.9	21.7	21.8
21	8.9	8.4	8.6	13.4	12.8	13.0	15.2	15.1	15.1	21.7	21.5	21.6
22	---	---	---	13.0	12.6	12.8	15.7	15.1	15.4	22.1	21.2	21.7
23	---	---	---	13.1	12.6	12.9	15.6	15.1	15.4	22.7	22.0	22.3
24	9.5	8.8	9.2	13.7	13.0	13.3	15.2	14.9	15.1	23.1	22.6	22.8
25	10.6	9.4	9.9	14.3	13.6	14.0	15.2	14.4	14.8	23.1	20.7	22.0
26	11.2	10.1	10.6	14.8	14.0	14.3	15.4	14.8	15.1	21.6	21.0	21.3
27	11.5	10.6	11.0	15.2	14.7	14.9	15.5	15.0	15.3	21.4	20.9	21.2
28	11.6	10.0	11.1	14.9	14.6	14.7	15.9	15.3	15.6	21.7	21.3	21.5
29	12.1	10.9	11.4	14.8	14.4	14.6	16.1	15.8	15.9	21.5	21.4	21.5
30	---	---	---	14.7	14.4	14.5	16.3	15.9	16.1	21.7	21.2	21.4
31	---	---	---	14.7	14.2	14.4	---	---	---	22.2	21.3	21.7
MONTH	12.1	4.2	7.2	15.2	11.2	13.2	16.3	13.9	14.9	23.1	16.2	20.6

CUMBERLAND RIVER BASIN

03435000 CUMBERLAND RIVER BELOW CHEATHAM DAM, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.7	22.2	22.5	26.2	25.7	26.0	26.0	25.5	25.7	26.0	25.6	25.8
2	23.1	22.6	22.9	26.6	25.9	26.2	26.3	25.7	25.9	26.2	25.8	26.0
3	23.7	23.0	23.3	26.8	26.2	26.5	26.7	26.2	26.4	26.4	25.8	26.0
4	23.4	22.9	23.1	26.8	26.5	26.6	27.0	26.4	26.8	26.4	25.8	26.1
5	23.6	22.6	23.3	27.2	26.5	26.9	26.9	26.6	26.8	26.1	25.4	25.7
6	22.9	22.2	22.5	27.5	26.9	27.2	27.0	26.5	26.7	25.5	25.1	25.3
7	23.3	22.1	22.7	27.7	27.4	27.6	27.0	26.7	26.9	25.5	25.1	25.2
8	23.7	22.9	23.3	27.6	27.2	27.4	27.3	26.8	27.0	25.1	24.9	25.0
9	24.0	23.5	23.7	27.5	27.2	27.4	27.3	26.7	27.1	24.9	24.6	24.7
10	24.5	23.7	24.1	27.5	27.1	27.3	27.2	26.7	26.9	25.4	24.5	24.9
11	24.9	24.4	24.5	27.6	27.4	27.5	27.2	26.7	27.1	25.6	25.3	25.4
12	25.5	24.6	24.9	28.0	27.4	27.7	27.2	26.6	26.9	25.5	25.2	25.3
13	26.0	25.3	25.7	28.0	27.8	27.9	27.1	26.6	26.7	25.6	25.2	25.4
14	26.4	25.9	26.2	27.9	27.4	27.6	27.0	26.5	26.7	25.7	25.2	25.5
15	26.4	26.0	26.2	27.4	27.1	27.3	27.2	26.6	26.9	25.5	24.8	25.3
16	26.0	25.7	25.8	27.6	27.2	27.4	27.4	26.9	27.1	24.8	24.1	24.5
17	25.9	25.2	25.7	27.9	27.4	27.6	27.1	26.5	26.8	24.3	23.8	24.0
18	25.2	25.0	25.1	28.0	27.6	27.8	27.0	25.9	26.5	24.2	23.4	23.7
19	25.3	25.0	25.2	28.0	27.6	27.8	26.2	25.6	25.9	24.0	23.0	23.5
20	25.2	24.8	25.1	27.7	27.5	27.6	25.8	25.1	25.5	24.1	23.2	23.6
21	25.7	25.0	25.4	27.5	27.2	27.3	25.7	25.0	25.3	23.5	23.0	23.2
22	26.2	25.7	25.9	27.3	26.5	26.9	26.1	25.6	25.8	23.5	23.0	23.3
23	26.4	25.9	26.1	26.5	26.3	26.4	26.5	25.7	26.1	23.7	23.3	23.5
24	27.0	26.3	26.6	27.1	26.2	26.6	26.5	26.1	26.4	23.5	23.2	23.4
25	26.9	26.6	26.7	27.1	26.4	26.8	26.5	25.9	26.2	23.3	22.4	23.0
26	27.0	26.6	26.7	26.7	26.3	26.5	26.3	25.2	25.8	22.7	22.0	22.4
27	27.1	26.8	26.9	26.9	26.5	26.7	25.2	24.8	24.9	22.2	21.7	22.0
28	26.9	26.4	26.6	26.8	26.2	26.5	24.8	24.4	24.6	22.2	21.6	21.9
29	26.7	26.2	26.4	26.4	26.1	26.3	25.2	24.4	24.7	22.3	21.7	22.0
30	26.6	26.0	26.3	26.2	25.8	26.1	25.4	24.9	25.2	22.1	21.7	21.9
31	---	---	---	25.9	25.6	25.7	25.6	25.1	25.4	---	---	---
MONTH	27.1	22.1	25.0	28.0	25.6	27.0	27.4	24.4	26.2	26.4	21.6	24.2

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.2	7.6	8.4	7.2	7.7	8.7	8.0	8.4	14.3	13.4	13.8
2	8.0	7.4	7.7	8.6	7.7	8.1	9.2	8.2	8.8	14.4	13.2	13.8
3	8.4	6.9	7.8	8.7	7.9	8.1	9.5	8.6	9.0	14.4	12.3	13.6
4	7.8	5.8	7.3	8.3	7.8	8.1	9.9	8.8	9.4	13.4	13.0	13.3
5	6.2	5.1	5.9	8.6	7.8	8.2	9.4	8.8	9.2	13.0	12.5	12.7
6	6.3	5.3	6.0	7.9	7.3	7.6	9.6	8.6	9.1	12.8	11.7	12.4
7	6.9	5.8	6.5	7.8	6.2	7.0	9.5	8.5	9.0	12.1	11.0	11.7
8	7.3	6.4	6.7	8.4	6.2	7.5	9.4	8.8	9.0	12.2	11.7	11.9
9	7.0	6.6	6.8	9.1	8.4	8.8	9.8	8.6	9.2	13.1	11.8	12.5
10	7.1	6.1	6.7	9.4	8.7	9.1	9.3	8.9	9.1	13.7	12.7	13.2
11	7.6	6.9	7.2	10.4	9.0	9.7	9.8	9.1	9.3	14.0	13.3	13.7
12	7.8	6.5	7.4	10.4	8.8	9.7	9.7	9.2	9.5	---	---	---
13	7.7	6.8	7.3	10.3	9.5	9.8	9.5	9.4	9.4	---	---	---
14	7.7	6.4	7.3	10.1	9.3	9.7	9.4	9.1	9.2	---	---	---
15	7.7	6.4	7.1	---	---	---	9.1	8.8	8.9	---	---	---
16	8.1	7.2	7.6	10.1	9.5	9.7	9.0	8.6	8.9	---	---	---
17	7.7	6.9	7.4	10.2	9.3	9.6	9.4	8.9	9.3	---	---	---
18	7.8	6.7	7.5	9.7	9.1	9.4	9.8	9.3	9.5	12.8	11.9	12.3
19	8.1	7.3	7.7	10.0	8.8	9.2	10.2	9.2	9.6	12.6	11.7	12.0
20	8.0	7.6	7.7	9.2	8.4	8.9	9.9	9.5	9.7	12.4	11.6	12.0
21	8.0	7.6	7.8	9.7	8.9	9.2	10.1	9.5	9.8	12.5	11.9	12.1
22	8.3	7.4	7.9	9.7	8.8	9.2	10.7	9.8	10.1	12.2	11.9	12.0
23	8.4	7.7	8.1	9.6	8.7	9.1	11.0	9.8	10.2	12.4	11.8	12.0
24	8.6	7.6	8.3	9.1	8.6	8.8	11.1	9.9	10.3	12.3	11.7	11.9
25	8.9	8.0	8.3	8.9	8.5	8.7	11.1	10.1	10.5	12.5	11.7	11.9
26	8.6	7.7	8.1	8.8	8.1	8.5	11.3	10.5	11.0	12.5	11.8	12.1
27	8.6	7.9	8.2	8.8	8.0	8.4	11.6	10.8	11.1	12.9	12.0	12.3
28	8.7	7.5	8.2	8.8	7.9	8.3	11.5	10.9	11.2	13.0	12.2	12.4
29	8.3	7.2	7.7	8.8	7.9	8.3	11.9	11.0	11.6	12.5	12.0	12.3
30	9.2	7.6	8.8	8.6	8.0	8.3	13.0	11.5	12.3	12.6	12.0	12.4
31	9.3	7.8	8.8	---	---	---	14.6	12.6	13.6	12.5	12.1	12.4
MONTH	9.3	5.1	7.5	10.4	6.2	8.7	14.6	8.0	9.8	14.4	11.0	12.5

CUMBERLAND RIVER BASIN

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OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	12.6	12.1	12.3	12.3	11.8	12.0	10.6	10.1	10.3	11.1	10.5	10.8
2	12.6	12.0	12.4	12.8	11.9	12.2	10.5	9.9	10.2	11.0	10.2	10.6
3	12.9	12.2	12.4	12.3	11.6	12.1	10.4	9.6	9.8	10.8	10.1	10.4
4	13.1	12.2	12.6	12.6	11.6	12.0	10.3	9.5	9.9	10.5	9.7	10.1
5	13.0	11.8	12.7	12.7	11.8	12.2	10.1	9.5	9.7	10.7	9.2	9.8
6	13.3	12.6	12.9	13.1	12.1	12.7	10.2	9.6	9.9	10.4	9.2	9.9
7	13.6	12.8	13.1	13.4	12.4	12.8	10.4	10.0	10.2	10.3	9.4	10.0
8	13.8	12.9	13.5	13.0	12.0	12.4	10.4	9.9	10.1	10.6	9.0	9.6
9	14.2	13.1	13.6	12.4	11.5	11.9	10.4	9.9	10.2	10.9	8.5	10.0
10	14.6	12.9	13.7	13.2	11.6	12.3	10.4	10.0	10.2	10.7	9.7	10.2
11	14.5	12.9	13.9	12.8	11.8	12.3	10.3	10.0	10.2	10.5	9.5	10.1
12	14.9	12.6	14.0	13.0	11.5	12.2	10.0	9.6	9.8	10.2	9.1	9.7
13	14.7	12.7	13.8	12.6	11.7	12.0	9.9	9.5	9.8	9.8	8.5	9.2
14	12.9	10.5	11.1	12.0	11.2	11.6	10.2	9.9	10.1	9.9	8.2	8.9
15	10.5	9.4	9.9	11.3	10.7	11.0	10.4	9.9	10.1	9.0	8.3	8.6
16	10.6	10.2	10.4	---	---	---	10.5	10.0	10.3	8.6	7.9	8.2
17	11.1	10.5	10.6	---	---	---	10.8	10.3	10.5	8.2	7.3	8.0
18	11.2	11.0	11.1	---	---	---	11.1	10.4	10.8	8.5	7.6	8.0
19	11.1	10.5	10.8	---	---	---	11.1	10.6	10.9	8.5	7.8	8.2
20	10.9	10.6	10.7	---	---	---	10.8	10.4	10.6	8.4	8.0	8.3
21	11.0	10.6	10.8	---	---	---	10.7	10.5	10.6	8.2	7.7	8.0
22	12.0	10.9	11.3	---	---	---	11.2	10.2	10.7	8.3	7.2	7.7
23	12.7	10.9	12.0	---	---	---	10.9	10.3	10.6	8.3	7.3	7.9
24	12.8	12.5	12.6	10.9	10.2	10.6	10.6	10.1	10.3	8.7	7.3	8.0
25	12.8	12.4	12.6	10.3	10.0	10.2	10.4	9.7	10.0	9.5	7.8	8.9
26	12.5	11.8	12.3	10.5	10.0	10.3	10.6	9.5	9.9	8.6	7.2	7.9
27	12.5	11.1	11.8	11.3	10.3	10.6	10.7	10.1	10.4	8.2	7.8	8.0
28	12.1	11.6	11.8	10.9	10.4	10.6	10.7	10.1	10.4	8.4	8.0	8.2
29	12.3	11.6	11.9	10.6	10.2	10.4	10.7	10.2	10.4	8.4	7.7	8.1
30	---	---	---	10.9	10.4	10.6	10.8	10.0	10.3	8.3	7.9	8.1
31	---	---	---	11.0	10.4	10.6	---	---	---	9.0	8.1	8.5
MONTH	14.9	9.4	12.2	13.4	10.0	11.5	11.2	9.5	10.2	11.1	7.2	9.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.8	9.0	9.4	8.0	7.0	7.4	6.4	5.7	6.0	8.8	7.2	8.1
2	9.7	9.4	9.6	8.9	7.5	8.1	7.0	5.5	6.0	9.2	7.6	8.5
3	10.6	9.4	9.8	8.7	7.8	8.3	7.4	6.6	6.9	8.9	7.8	8.4
4	9.8	8.8	9.2	8.8	8.1	8.4	8.0	6.5	7.3	8.4	7.1	7.9
5	9.7	8.2	9.2	8.5	7.2	7.9	7.8	6.9	7.4	7.8	6.1	7.1
6	9.4	8.1	8.6	7.8	6.8	7.2	7.7	6.4	7.1	7.3	6.3	6.9
7	8.7	7.8	8.3	7.4	6.6	6.9	7.5	6.9	7.2	7.6	6.3	6.9
8	8.7	8.5	8.5	8.0	6.0	6.9	7.7	6.7	7.1	7.1	6.7	6.9
9	8.5	7.8	8.0	7.7	6.8	7.2	7.6	6.8	7.2	6.9	6.6	6.8
10	8.3	7.8	8.1	8.0	6.6	7.1	7.1	6.2	6.7	6.8	6.3	6.5
11	8.3	8.3	8.2	8.2	7.0	7.5	7.2	6.0	6.8	6.8	5.9	6.4
12	---	---	---	7.8	7.3	7.6	7.6	6.3	7.0	6.9	6.0	6.3
13	---	---	---	7.7	6.9	7.3	8.1	6.6	7.3	7.3	6.3	6.8
14	---	---	---	7.5	6.6	7.1	8.4	7.1	7.7	7.6	6.6	7.2
15	---	---	---	7.5	6.7	7.1	8.6	7.4	8.0	8.2	7.5	7.8
16	---	---	---	8.1	6.8	7.4	9.0	7.9	8.4	8.2	7.4	7.9
17	---	---	---	8.5	7.3	7.8	8.6	7.6	8.2	8.7	7.9	8.3
18	---	---	---	8.5	7.7	8.1	8.0	7.4	7.7	9.1	7.8	8.3
19	---	---	---	8.1	7.4	7.8	7.9	6.6	7.5	9.1	7.7	8.3
20	---	---	---	7.7	7.2	7.5	7.7	6.6	7.1	9.1	7.3	8.0
21	---	---	---	7.2	6.6	6.8	8.0	6.8	7.2	8.5	7.3	7.9
22	---	---	---	6.7	6.2	6.4	8.6	7.2	7.8	8.6	7.9	8.2
23	---	---	---	6.7	5.9	6.4	8.4	7.5	7.9	8.4	7.9	8.2
24	---	---	---	8.4	6.4	7.1	8.3	7.2	7.8	8.2	7.1	7.8
25	---	---	---	7.9	6.2	7.2	8.6	6.8	8.0	8.0	7.5	7.7
26	---	---	---	8.4	6.4	7.5	7.9	7.0	7.5	8.1	7.5	7.8
27	9.1	8.2	8.6	8.2	7.2	7.6	7.3	6.4	6.9	7.8	7.4	7.6
28	8.3	7.7	8.0	7.9	7.1	7.5	7.2	6.3	6.8	8.0	7.3	7.6
29	8.0	7.1	7.6	7.1	6.6	6.9	8.2	6.3	7.0	7.9	7.3	7.5
30	7.6	6.9	7.3	6.9	6.4	6.7	8.3	7.0	7.6	8.2	7.5	7.8
31	---	---	---	6.4	6.1	6.2	7.9	6.9	7.4	---	---	---
MONTH	10.6	6.9	8.6	8.9	5.9	7.3	9.0	5.5	7.3	9.2	5.9	7.6

CUMBERLAND RIVER BASIN

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN

LOCATION.--Lat 36°38'32", long 86°59'18", Robertson County, Hydrologic Unit 05130206, on left bank in pump house of Springfield water plant, 0.2 mi south of Kentucky-Tennessee state line, 0.7 mi below Highway 161 bridge, 4.8 mi northwest of Barren Plains.

DRAINAGE AREA.--549 mi², includes 246 mi² without surface drainage.

PERIOD OF RECORD.--October 1994 to current year. Occasional low-flow measurements, water years 1966-1967 at site 1.8 mi upstream.

GAGE.-- Data Logger. Datum of gage is 440.00 ft above sea level (levels based on information provided by City of Springfield).

REMARKS.--Records good, except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 25	1045	*3,420	*10.37				

Minimum daily discharge, 30 ft³/s, Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	31	54	81	89	482	270	831	742	143	247	78
2	36	49	50	81	92	434	271	746	641	133	173	73
3	35	49	50	90	90	392	366	709	568	128	135	72
4	35	62	49	183	90	365	1110	772	508	128	364	73
5	36	63	53	369	91	336	1070	699	469	126	641	98
6	33	51	54	213	92	308	813	609	440	123	360	87
7	32	46	54	158	92	284	691	547	392	114	270	78
8	31	44	49	136	91	267	635	497	349	108	208	75
9	77	42	50	129	90	255	653	454	321	103	176	66
10	158	42	63	119	89	244	544	424	299	100	156	70
11	169	37	61	112	94	236	525	392	277	95	140	114
12	97	39	97	106	104	227	1160	359	256	102	127	191
13	68	38	432	107	111	216	1080	346	242	99	118	106
14	53	38	1060	99	1500	201	887	326	230	104	110	85
15	45	38	676	96	745	195	770	306	225	95	104	74
16	38	40	371	94	504	205	681	278	244	89	100	68
17	37	38	259	91	381	213	625	266	277	85	95	64
18	34	37	208	99	1060	261	665	255	226	84	93	58
19	34	38	177	107	2620	256	571	243	288	113	89	56
20	34	47	159	127	1380	1340	512	236	263	104	88	58
21	33	48	141	122	993	1160	471	235	232	95	82	53
22	32	51	127	124	804	792	431	228	204	92	78	53
23	33	53	116	120	685	645	392	233	186	88	75	56
24	32	55	109	114	609	563	432	802	175	85	78	61
25	32	56	103	107	559	501	2580	1660	166	80	78	e90
26	30	62	97	101	508	439	1640	1530	161	75	76	e82
27	32	60	92	96	514	409	1160	1520	160	74	106	76
28	32	65	89	93	615	395	1300	2140	164	75	106	73
29	31	70	88	91	533	354	1210	1450	182	119	114	65
30	31	63	85	91	---	319	966	1090	157	143	93	58
31	31	---	82	92	---	293	---	884	---	310	82	---
TOTAL	1466	1452	5155	3748	15225	12587	24481	21067	9044	3412	4762	2311
MEAN	47.3	48.4	166	121	525	406	816	680	301	110	154	77.0
MAX	169	70	1060	369	2620	1340	2580	2140	742	310	641	191
MIN	30	31	49	81	89	195	270	228	157	74	75	53
CFSM	.09	.09	.30	.22	.96	.74	1.49	1.24	.55	.20	.28	.14
IN.	.10	.10	.35	.25	1.03	.85	1.66	1.43	.61	.23	.32	.16

03435305 RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAINS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	163	353	680	1168	1108	1584	909	1094	993	339	253	161
MAX	422	1073	2335	2718	1829	4219	1594	1794	3219	655	507	529
(WY)	1997	1997	1997	1999	1997	1997	1998	1995	1998	1998	1998	1996
MIN	47.3	48.4	166	121	525	406	345	496	200	110	77.1	42.3
(WY)	2000	2000	2000	2000	2000	2000	1995	1997	1999	2000	1999	1999

SUMMARY STATISTICS

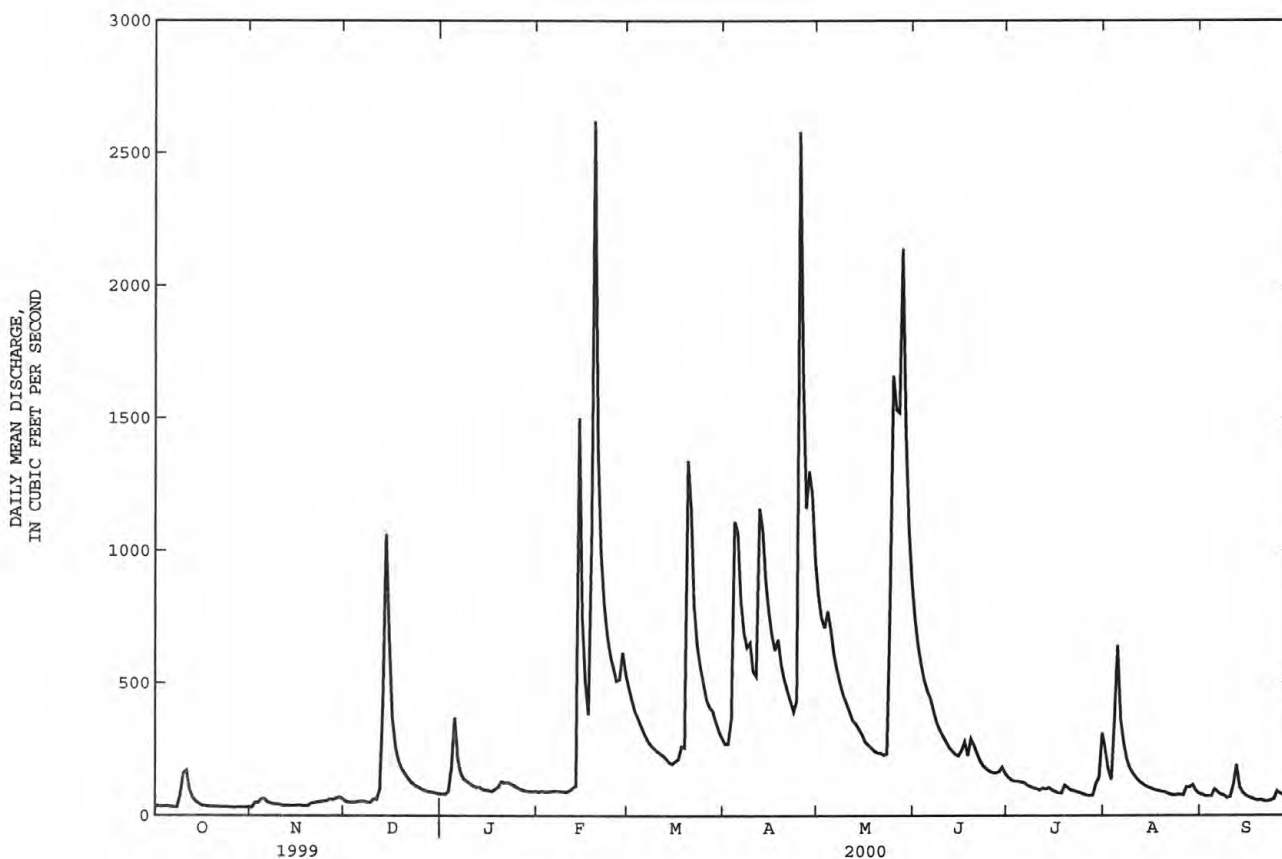
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1994 - 2000

ANNUAL TOTAL	238066	104710	
ANNUAL MEAN	652	286	
HIGHEST ANNUAL MEAN			732
LOWEST ANNUAL MEAN			1170
HIGHEST DAILY MEAN	16200	Jan 23	2620
LOWEST DAILY MEAN	30	Oct 26	30
ANNUAL SEVEN-DAY MINIMUM	31	Oct 26	31
INSTANTANEOUS PEAK FLOW			3420
INSTANTANEOUS PEAK STAGE			10.37
ANNUAL RUNOFF (CFSM)	1.19		.52
ANNUAL RUNOFF (INCHES)	16.13		7.10
10 PERCENT EXCEEDS	1570		719
50 PERCENT EXCEEDS	201		118
90 PERCENT EXCEEDS	38		43

e Estimated



CUMBERLAND RIVER BASIN

03435970 MILLERS CREEK AT TURNERSVILLE, TN

LOCATION.--Lat 36°29'16", long 87°02'22", Robertson County, Hydrologic Unit 05130206, on Maxie road, at the confluence of Honey Run Creek and Millers Creek, at Turnersville.

DRAINAGE AREA.--20.46mi².

PERIOD OF RECORD.--March 2000 to September 2000.

GAGE.--Data collection platform and crest-stage gage.

REMARKS.--Records good, except for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 175 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	0445	*1,580	*5.68	Jul 12	1630	198	3.91
May 26	1415	270	4.10	Aug 4	0515	195	3.90
May 27	1700	184	3.87				

Minimum discharge, 1.7 ft³/s, on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR MARCH 2000 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e7.2	7.0	30	26	3.1	2.7	1.8
2	---	---	---	---	---	e7.1	8.4	26	21	3.0	2.4	1.8
3	---	---	---	---	---	e7.0	21	31	16	2.9	2.3	1.9
4	---	---	---	---	---	e6.9	66	33	14	3.0	19	2.2
5	---	---	---	---	---	e6.8	42	26	13	2.8	5.0	2.6
6	---	---	---	---	---	e6.8	31	22	11	2.7	3.6	2.0
7	---	---	---	---	---	e6.7	24	18	9.2	2.8	3.0	2.0
8	---	---	---	---	---	6.4	27	16	8.3	2.6	2.7	2.0
9	---	---	---	---	---	6.2	22	15	7.5	2.6	2.3	2.0
10	---	---	---	---	---	6.0	19	14	6.9	2.4	2.0	2.1
11	---	---	---	---	---	6.4	41	12	6.3	2.2	1.9	5.3
12	---	---	---	---	---	5.8	75	11	5.4	20	1.9	2.5
13	---	---	---	---	---	5.4	50	12	5.0	6.1	1.9	2.0
14	---	---	---	---	---	5.4	38	9.7	4.8	3.9	1.9	1.8
15	---	---	---	---	---	5.4	30	8.5	5.6	3.2	1.8	1.9
16	---	---	---	---	---	6.1	25	8.0	6.0	2.8	1.8	1.8
17	---	---	---	---	---	5.7	22	7.7	5.3	2.4	1.8	1.8
18	---	---	---	---	---	5.4	19	7.0	5.4	2.3	2.2	1.8
19	---	---	---	---	---	14	16	6.8	5.3	2.5	2.2	1.8
20	---	---	---	---	---	38	15	7.1	4.8	2.2	2.2	1.9
21	---	---	---	---	---	28	13	7.0	4.6	2.2	2.1	1.9
22	---	---	---	---	---	21	12	6.3	4.3	2.0	2.1	2.0
23	---	---	---	---	---	17	11	20	3.9	2.1	2.0	2.6
24	---	---	---	---	---	14	49	13	3.6	2.0	2.4	3.4
25	---	---	---	---	---	12	130	322	3.4	1.9	2.3	4.4
26	---	---	---	---	---	11	72	139	3.3	1.9	2.5	3.5
27	---	---	---	---	---	11	53	161	3.7	2.0	3.2	2.6
28	---	---	---	---	---	9.4	69	110	3.7	2.4	2.2	2.4
29	---	---	---	---	---	8.7	49	68	3.6	2.9	1.9	2.3
30	---	---	---	---	---	8.5	37	46	3.3	5.9	1.9	2.2
31	---	---	---	---	---	7.4	---	34	---	3.2	1.8	---
MEAN	---	---	---	---	---	10.1	36.4	40.2	7.47	3.35	2.87	2.34
MAX	---	---	---	---	---	38	130	322	26	20	19	5.3
MIN	---	---	---	---	---	5.4	7.0	6.3	3.3	1.9	1.8	1.8

e Estimated

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CUMBERLAND RIVER BASIN

03436100 RED RIVER AT PORT ROYAL, TN

LOCATION.--Lat 36°33'17", long 87°08'31", Montgomery County, Hydrologic Unit 05130206, on left bank at county road bridge at Port Royal, 250 ft downstream from Sulphur Fork, and at mile 25.5.

DRAINAGE AREA.--935 mi² includes 437 mi² without surface drainage.

PERIOD OF RECORD.--July 1961 to September 1991. October 1991 to September 1996, crest-stage partial record station. October 1997 to current year.

GAGE.--Water-stage encoder, crest-stage gage and satellite telemeter at station. Datum of gage is 376.25 ft above sea level. July 13, 1961, to Oct. 9, 1963, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 23, 1937, reached a stage of 44.4 ft; from flood profile of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 25	1630	*5,240	*14.03				

Minimum discharge, 62 ft³/s, Dec. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	77	96	160	185	864	523	1570	1510	276	504	135
2	72	90	90	157	183	789	520	1370	1270	255	336	128
3	71	131	90	169	179	721	636	1240	1100	244	269	119
4	73	116	89	324	179	676	1760	1300	969	235	319	117
5	70	111	96	513	177	633	2110	1260	886	235	911	124
6	72	112	98	453	175	590	1540	1070	836	227	594	143
7	70	99	103	326	174	552	1260	945	766	218	475	127
8	71	92	126	271	174	517	1170	858	698	204	370	118
9	146	89	138	248	171	494	1170	796	645	194	318	114
10	348	84	163	234	169	471	988	761	602	189	277	108
11	374	87	192	222	170	452	961	705	565	182	248	130
12	257	84	230	209	187	434	2120	656	527	178	222	371
13	177	83	680	207	203	413	2170	646	495	232	199	255
14	136	83	1550	201	2560	393	1710	619	467	192	188	178
15	113	81	1290	187	1530	375	1450	573	454	185	178	149
16	101	81	711	182	897	384	1240	535	456	167	170	131
17	94	84	520	179	703	394	1120	506	503	158	160	119
18	88	79	415	195	1270	445	1120	487	448	153	157	112
19	84	81	355	228	4240	510	1030	460	459	172	156	105
20	84	89	316	249	2830	1700	909	447	494	203	146	101
21	86	95	282	250	1880	2250	846	445	445	183	142	99
22	84	93	256	244	1480	1440	782	431	396	170	133	92
23	81	92	234	242	1230	1120	718	540	363	159	131	102
24	80	91	219	228	1070	954	820	857	340	152	128	125
25	78	93	204	218	962	853	4010	e2200	323	143	130	147
26	78	99	194	202	879	770	3450	e1700	308	138	134	178
27	79	109	186	199	906	728	2280	e1650	309	132	149	161
28	81	107	179	193	1040	698	2530	e3400	293	128	207	146
29	80	102	175	188	963	653	2430	e2600	318	234	205	132
30	78	106	172	186	---	605	1870	e2200	304	296	184	120
31	77	---	166	186	---	564	---	1840	---	440	151	---
TOTAL	3457	2820	9615	7250	26766	22442	45243	34667	17549	6274	7891	4186
MEAN	112	94.0	310	234	923	724	1508	1118	585	202	255	140
MAX	374	131	1550	513	4240	2250	4010	3400	1510	440	911	371
MIN	70	77	89	157	169	375	520	431	293	128	128	92
CFSM	.12	.10	.33	.25	.99	.77	1.61	1.20	.63	.22	.27	.15
IN.	.14	.11	.38	.29	1.06	.89	1.80	1.38	.70	.25	.31	.17

CUMBERLAND RIVER BASIN

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03436100 RED RIVER AT PORT ROYAL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	259	648	1730	2025	2458	2673	2069	1623	1087	599	312	375
MAX	855	3610	5054	5984	7429	9874	6482	7183	5467	2858	809	3939
(WY)	1980	1980	1991	1974	1989	1975	1979	1983	1998	1989	1998	1979
MIN	68.2	74.4	73.4	91.7	562	724	490	270	140	143	130	83.4
(WY)	1964	1964	1964	1981	1964	2000	1986	1988	1988	1988	1988	1999

SUMMARY STATISTICS

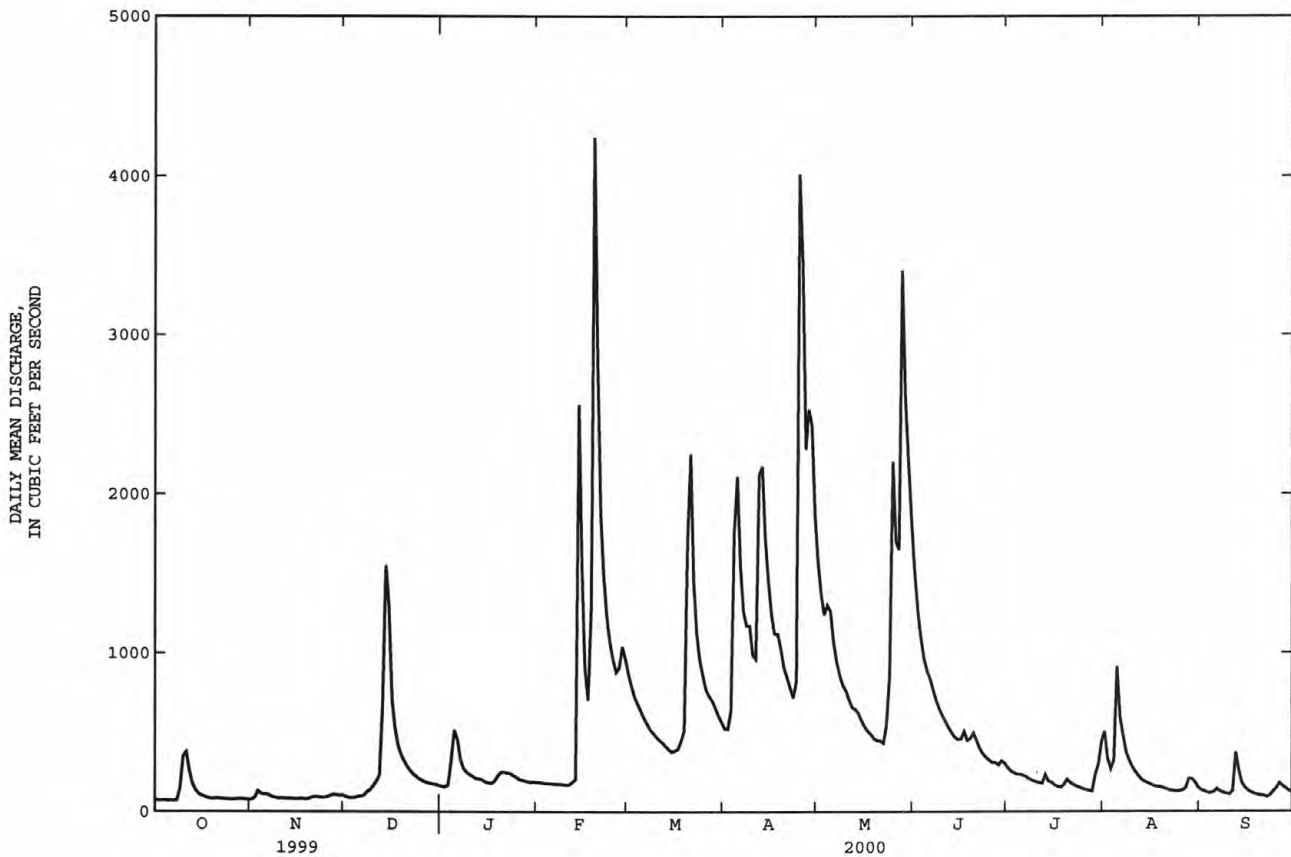
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1961 - 2000

ANNUAL TOTAL	435074	188160	
ANNUAL MEAN	1192	514	1327
HIGHEST ANNUAL MEAN			2594
LOWEST ANNUAL MEAN			514
HIGHEST DAILY MEAN	30000	Jan 23	4240
LOWEST DAILY MEAN	70	Oct 5	70
ANNUAL SEVEN-DAY MINIMUM	71	Oct 2	71
INSTANTANEOUS PEAK FLOW			5240
INSTANTANEOUS PEAK STAGE			14.03
INSTANTANEOUS LOW FLOW			62
ANNUAL RUNOFF (CFSM)	1.27	.55	1.42
ANNUAL RUNOFF (INCHES)	17.31	7.49	19.29
10 PERCENT EXCEEDS	2950	1270	2940
50 PERCENT EXCEEDS	392	234	598
90 PERCENT EXCEEDS	81	90	124

e Estimated



RESERVOIRS IN CUMBERLAND RIVER BASIN

03413500 LAKE CUMBERLAND.--Lat 36°52'09", long 85°08'45", Russell County, KY, Hydrologic Unit 05130103, in pylon of Wolf Creek Dam on Cumberland River and 10 mi southwest of Jamestown, Ky. DRAINAGE AREA, 5,789 mi². PERIOD OF RECORD, April 1950 to current year. Prior to October 1954, published as Wolf Creek Reservoir. April to June 1950, published in WSP 1726. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Dec. 6, 1950, nonrecording gage at same site at datum 545.0 ft higher.

REVISIONS.--WSP 1556: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam surmounted by 10 taintor gates, each 37 high by 50 ft wide. Final closure of dam made Aug. 7, 1950. Total capacity at elevation 760.00 ft top of gates, is 3,070,000 cfs-days, of which 1,056,000 cfs-days above elevation 723.00 ft, crest of spillway, are reserved for flood control and 1,080,000 cfs-days between elevation 673.00 ft, minimum power pool, and 723.00 ft are used for power production. Figures given herein represent total contents, of which 934,000 cfs-days below elevation 673.00 ft is dead storage. Reservoir is used for flood control, power, navigation, and recreation.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,811,000 cfs-days, May 13, 1984, elevation, 751.70 ft; minimum, first filling, 934,400 cfs-days, Jan. 1, 1956, elevation, 673.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,077,900 cfs-days, Apr. 28, elevation, 725.51 ft; minimum, 1,121,100 cfs-days, Jan. 3, elevation, 682.98 ft.

03416500 DALE HOLLOW LAKE.--Lat 36°32'19", long 85°27'05", Clay County, Hydrologic Unit 05130105, at Dale Hollow Dam on Obyey River, 3.0 mi east of Celina, and 7.3 mi upstream from mouth. DRAINAGE AREA, 936 mi². PERIOD OF RECORD, August 1943 to current year. Prior to October 1965, published as Dale Hollow Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to June 25, 1946, nonrecording gage at same site and datum.

REVISIONS.--WSP 1306: 1944. WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with six taintor gates, each 12 ft high by 60 ft wide. Closure of dam was made Aug. 30, 1943; water in reservoir first reached minimum pool elevation May 7, 1944. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 663.0 ft, top of gates, is 859,800 cfs-days of which 177,500 cfs-days between elevations 663.00 ft and 651.00 ft, crest of spillway, are reserved for flood control, and 250,200 cfs-days between elevations 651.00 ft and 631.00 ft, ordinary minimum pool, are used for power production. Contents of 432,100 cfs-days below elevation 631.00 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 828,600 cfs-days, Mar. 15, 1975, elevation, 660.98 ft; minimum, first filling, 428,000 cfs-days, Sept. 11, 1944, elevation, 630.63 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 652,600 cfs-days, May 28, elevation, 652.60 ft; minimum, 635,000 cfs-days, Jan. 8, elevation, 635.04 ft.

03418400 CORDELL HULL RESERVOIR.--Lat 36°17'23", long 85°56'39", Smith County, Hydrologic Unit 05130108, at Cordell Hull Dam Cumberland River, 2.7 mi north of Carthage, and at mile 313.5. DRAINAGE AREA, 8,095 mi². PERIOD OF RECORD, October 1972 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with five gates, each 41 ft high and 45 ft wide. Closure of dam was made Oct. 4, 1967; water in reservoir first reached ordinary minimum pool Mar. 13, 1973. Total capacity at elevation 508.0 ft, maximum surcharge pool, is 156,700 cfs-days, of which 53,400 cfs-days is controlled storage between elevations 508.0 ft and 499.0 ft, ordinary minimum pool. Contents of 5,000 cfs-days between elevation of 499.0 ft and 500.0 ft full winter pool, is available for power production. Contents of 48,400 cfs-days above 500.0 ft is available for flood control during the winter, and 26,100 cfs-days above 504.0 ft, full pool during spring to fall season, is available for flood control the rest of the year. Contents of 103,300 cfs-days below elevation 499.0 ft is dead storage. Reservoir is used for navigation, power, and flood control.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 156,700 cfs-days, Mar. 13, 1975, May 8, 1984, elevation, 508.00 ft; minimum, after first filling to ordinary minimum pool, 96,700 cfs-days, Apr. 18, 1974, elevation, 497.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 137,100 cfs-days, May 24, elevation, 505.05 ft; minimum, 106,300 cfs-days, Mar. 14, elevation, 499.58 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03413500	LAKE CUMBERLAND		03416500	DALE HOLLOW LAKE		03418400	CORDELL HULL RESERVOIR	
Sept. 30...	696.41	1,394,300	-	637.71	509,500	-	504.25	132,200	-
Oct. 31...	691.53	1,292,100	-102,200	636.14	490,800	-18,700	502.21	120,200	-12,000
Nov. 30...	686.75	1,195,200	-96,900	635.32	481,200	-9,600	500.01	108,400	-11,800
Dec. 31...	683.44	1,130,000	-65,200	635.24	480,300	-900	500.36	110,200	+1,800
CAL YR 1999	-	-	-198,100	-	-	-41,600	-	-	-800
Jan. 31...	685.20	1,164,500	+34,500	635.44	482,600	+2,300	500.78	112,400	+2,200
Feb. 29...	697.07	1,408,400	+243,900	638.50	519,100	+36,500	500.88	112,900	+500
Mar. 31...	709.14	1,677,700	+269,300	643.64	583,400	+64,300	502.03	119,200	+6,300
Apr. 30...	725.02	2,065,300	+387,600	651.39	687,800	+104,400	503.97	130,500	+11,300
May 31...	724.17	2,043,600	-21,700	652.04	696,900	+9,100	504.45	133,400	+2,900
June 30...	720.73	1,956,800	-86,800	649.30	658,800	-38,100	504.26	132,200	-1,200
July 31...	713.72	1,785,500	-171,300	646.29	618,100	-40,700	504.44	133,300	+1,100
Aug. 31...	704.07	1,562,000	-223,500	641.00	549,900	-68,200	504.01	132,000	-2,600
Sept. 30...	696.70	1,400,500	-161,500	637.76	510,100	-39,800	504.33	132,700	+2,000
WTR YR 2000	-	-	6,200	-	-	+300	-	-	500

RESERVOIRS IN CUMBERLAND RIVER BASIN--CONTINUED

03422000 GREAT FALLS LAKE.--Lat 35°48'21", long 85°38'09", Warren County, Hydrologic Unit 05130108, at pen-stock inlet on Collins River, 700 ft southwest of powerhouse of Tennessee Valley Authority, 1.5 mi northwest of Rock Island, 1.8 mi upstream from mouth of Collins River, and 2.0 mi upstream from Great Falls Dam on Caney Fork. DRAINAGE AREA, 1,677 mi². PERIOD OF RECORD, January 1917 to current year. GAGE, remote indicator gage. Datum of gage is sea level. REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 18 taintor gates, each 14 ft high by 25 ft wide. Closure of dam was made in 1916; dam redesigned and crest raised 35 ft in 1925. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 805.3 ft top of gates, is 25,900 cfs-days, of which 18,700 cfs-days are controlled storage above elevation 780.0 ft, normal minimum pool. Contents of 1,500 cfs-days below elevation 762.0 ft is dead storage. Reservoir is used primarily for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight elevation, 817.48 ft, Mar. 23, 1929, contents not determined; minimum midnight contents, 1,700 cfs-days, Aug. 19, 1918, elevation, 756.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 25,400 cfs-days, Mar. 22, elevation, 805.35 ft; minimum, 9,900 cfs-days, Jan. 9, elevation, 784.87 ft.

03424000 CENTER HILL LAKE.--Lat 36°05'48", long 85°49'38", DeKalb County, Hydrologic Unit 05130108, at Center Hill Dam on Caney Fork, 10 mi north of Smithville, 14 mi southeast of Carthage, and at mile 26.6. DRAINAGE AREA, 2,174 mi². PERIOD OF RECORD, October 1948 to current year. Prior to October 1965, published as Center Hill Reservoir. GAGE, water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Mar. 14, 1949, nonrecording gage at site 1,320 ft upstream at same datum. REVISIONS.--WSP 1910: Drainage area.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam. Spillway is equipped with eight taintor gates, each 37 ft high by 50 ft wide. Closure of dam was made Nov. 27, 1948; water in reservoir first reached minimum pool elevation Jan. 11, 1949. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 685.0 ft, top of gates, is 1,054,800 cfs-days, of which 384,500 cfs-days between 685.0 ft and 648.0 ft, crest of spillway, are reserved for flood control, and 248,000 cfs-days between elevations 648.0 ft and 618.0 ft, ordinary minimum pool, are used for power production. Contents of 422,300 cfs-days below 618.0 ft is dead storage. Reservoir is used for flood control, navigation, and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,014,600 cfs-days, May 10, 1984, elevation, 681.52 ft; minimum, after first filling, 171,000 cfs-days, Dec. 1, 2, 1949, elevation, 576.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 733,000 cfs-days, Apr. 7, elevation, 654.67 ft; minimum, 464,300 cfs-days, Jan. 3, elevation, 623.58 ft.

03426300 OLD HICKORY LAKE.--Lat 36°17'50", long 86°39'20", Sumner County, Hydrologic Unit 05130201, at Old Hickory Dam on Cumberland River, 2.0 mi west of Hendersonville, 10 mi northeast of the State Capitol in Nashville, and at mile 216.2. DRAINAGE AREA, 11,673 mi². PERIOD OF RECORD, June 1954 to current year. GAGE, water-stage recorder. Datum of gage is sea level; gage readings have been reduced to elevations NGVD. Prior to Apr. 4, 1957, nonrecording gage at same site and datum. REVISIONS.--WSP 2110: Drainage area.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with six taintor gates, each 41 ft high and 45 ft wide. Closure of dam was made in June 1954 and water in reservoir was raised sufficiently to maintain navigation through the lock. Water in reservoir first reached ordinary minimum pool elevation Dec. 30, 1956. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 450.0 ft, maximum surcharge pool, 274,600 cfs-days of which 63,000 cfs-days between elevations 450.0 ft and 445.0 ft, normal pool, are induced surcharge storage provided to compensate for loss of natural valley storage incurred by construction of the project, and 31,800 cfs-days between elevations 445.0 ft and 442.0 ft, ordinary minimum pool, are used for power production. Contents of 179,800 cfs-days below elevation 442.0 ft, is dead storage. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 277,200 cfs-days, May 9, 1984, elevation, 450.18 ft; minimum, after first filling to ordinary minimum pool, 179,400 cfs-days, Oct. 22, 1957, Oct. 28, 1969, elevation, 441.96 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 228,000 cfs-days, Mar. 21, elevation, 446.40 ft, minimum, 186,600 cfs-days, Nov. 21, elevation, 442.68 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03422000 GREAT FALLS LAKE			03424000 CENTER HILL LAKE			03426300 OLD HICKORY LAKE		
Sept. 30...	798.86	19,500	-	630.73	520,900	-	444.81	209,500	-
Oct. 31...	785.45	10,200	-9,300	628.18	500,400	-20,500	444.68	208,000	-1,500
Nov. 30...	785.42	10,200	0	625.57	479,800	-20,600	444.68	208,000	0
Dec. 31...	785.65	10,300	+100	623.79	466,000	-13,800	444.70	208,200	+200
CAL YEAR 1999	-	-	-11,500	-	-	-42,700	-	-	+500
Jan. 31...	787.97	11,700	+1,400	624.40	470,700	+4,700	444.95	211,000	+2,800
Feb. 29...	799.72	20,200	+8,500	631.14	524,200	+53,500	444.97	211,300	+300
Mar. 31...	798.06	18,900	-1,300	644.79	641,100	+116,900	444.62	207,300	-4,000
Apr. 30...	804.61	24,600	+5,700	650.62	694,600	+53,500	444.61	207,200	-100
May 31...	798.17	19,000	-5,600	648.00	670,300	-24,300	444.34	204,200	-3,000
June 30...	798.79	19,500	+500	646.46	656,200	-14,100	444.92	210,700	+6,500
July 31...	798.88	19,500	0	641.76	614,200	-42,000	444.61	207,200	-3,500
Aug. 31...	799.37	19,900	+400	635.25	558,200	-56,000	445.01	211,700	+4,500
Sept. 30...	800.60	21,000	+1,100	631.19	524,600	-33,600	444.64	207,600	-4,100
WTR YR 2000	-	-	+1,500	-	-	+3,700	-	-	-1,900

RESERVOIRS IN CUMBERLAND RIVER BASIN--CONTINUED

03430050 J. PERCY PRIEST RESERVOIR.--Lat 36°09'23", long 86°37'07", Davidson County, Hydrologic Unit 05130203, on upstream face of J. Percy Priest Dam on Stones River, 2.6 mi east of Donelson, and 6.8 mi above mouth. DRAINAGE AREA, 892 mi². PERIOD OF RECORD, September 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to Dec. 15, 1967, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with four taintor gates, each 41 ft high by 45 ft wide. Closure of dam was made Sept. 18, 1967; water in reservoir first reached ordinary minimum pool May 15, 1968. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 504.5 ft, maximum controlled pool, is 328,700 cfs-days of which 193,600 cfs-days is controlled storage between elevations 504.5 ft and 480.0 ft, ordinary minimum pool. Contents of 17,200 cfs-days between elevations 480.0 ft and 483.0 ft, full winter pool, is available for power production. Contents of 176,400 cfs-days above 483.0 ft is available for flood control during the winter, and 131,100 cfs-days above 490.0 ft, full pool during spring-to-fall season, is available for flood control the rest of the year. Contents of 135,100 cfs-days below elevation 480.0 ft is dead storage. Reservoir is used for flood control, power, recreation, and wildlife.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 336,600 cfs-days, May 9, 1984, elevation, 505.18 ft; minimum, after first filling to ordinary minimum pool, 109,500 cfs-days, Dec. 5, 1968, elevation, 474.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 218,800 cfs-days, Apr. 28, elevation, 492.84 ft, minimum, 147,000 cfs-days, Dec. 24, elevation, 482.20 ft.

03434900 CHEATHAM LAKE.--Lat 36°18'56", long 87°13'10", Cheatham County, Hydrologic Unit 05130202, at Cheatham Dam on Cumberland River, 9.4 mi west of Ashland City, 16 mi southeast of the courthouse in Clarksville, and at mile 148.7. DRAINAGE AREA, 14,159 mi².

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with seven semi-submersible taintor gates, each 27 ft high by 60 ft wide. Total capacity at elevation 385.0 ft, normal pool, is 52,200 cfs-days, of which 9,800 cfs-days are controlled storage. Records of contents not published herein.

03438210 LAKE BARKLEY.--Lat 37°01'17", long 88°13'16", Lyon County, KY, Hydrologic Unit 05130205, in powerhouse of Barkley Dam on Cumberland River, 1.4 mi northeast of Grand Rivers, KY, and at mile 30.6. DRAINAGE AREA, 17,598 mi². PERIOD OF RECORD, July 1964 to current year. GAGE, water-stage recorder. Datum of gage is sea level, (levels by U.S. Army Corps of Engineers). Prior to Jan. 1, 1966, nonrecording gage, 1,200 ft upstream from Barkley Dam at same datum.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with 12 taintor gates, each 50 ft high by 55 ft wide. Construction cofferdam was closed and limited storage began July 1, 1964; reservoir reached ordinary minimum pool elevation of 354.0 ft Feb. 16, 1966. Total level pool capacity at elevation 375.0 ft, top of gates, is 1,049,600 cfs-days, of which 742,000 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Contents of 130,500 cfs-days between ordinary minimum pool elevation, 354.0 ft, and full pool elevation, 359.0 ft, is available for power during the spring-to-fall season. Minimum pool elevation in advance of floods is 346.0 ft, contents 171,000 cfs-days. Reservoir is used for navigation, flood control, power, and recreation. Barkley-Kentucky Canal opened June 13, 1966, for navigation and power use. Canal is 1.75 mi long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see station 03438190, Kentucky reports.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 370.04 ft, May 13, 1984; minimum after reaching permanent pool elevation, 353.20 ft, Dec. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 490,800 cfs-days, May 26, elevation, 360.75 ft; minimum content, 298,700 cfs-days, Dec. 20, minimum, 353.60 ft. Contents based on backwater profile.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-day)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03430050 J. PERCY PRIEST LAKE			*03438210 LAKE BARKLEY		
Sept. 30.....	489.15	191,600	-	356.15	359,700	-
Oct. 31.....	487.46	180,100	-11,500	355.00	331,000	-28,700
Nov. 30.....	484.07	158,700	-21,400	354.60	321,400	-9,600
Dec. 31.....	482.30	148,100	-10,600	354.25	313,300	-8,100
CAL YR 1999	-	-	-7,700	-	-	-9,400
Jan. 31.....	483.71	156,500	+8,400	355.10	333,400	+20,100
Feb. 29.....	485.62	168,200	+11,700	354.75	325,000	-8,400
Mar. 31.....	488.79	189,100	+20,900	356.80	376,700	+51,700
Apr. 30.....	492.44	215,700	+26,600	359.80	461,700	+85,000
May 31.....	490.58	201,800	-13,900	359.40	449,800	-11,900
June 30.....	490.49	201,200	-600	359.10	441,000	-8,800
July 31.....	490.47	201,000	+200	357.90	406,700	-34,300
Aug. 31.....	490.31	199,900	-1,100	355.95	354,600	-52,100
Sept. 30.....	490.44	200,800	+900	355.15	334,600	20,000
WTR YR 2000	-	-	+9,600	-	-	-25,100

* Contents based on backwater profile.

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TENNESSEE RIVER BASIN

03455000 FRENCH BROAD RIVER NEAR NEWPORT, TN

LOCATION.--Lat 35°58'54", long 83°09'40", Cocke County, Hydrologic Unit 06010105, on left bank, 200 ft upstream from bridge on U.S. Highway 321, 1.0 mi northeast of Newport city limits, 3.7 mi upstream from Pigeon River, and at mile 77.5.

DRAINAGE AREA.--1,858 mi².

PERIOD OF RECORD.--September to December 1900, February to August 1901, October to November 1901, November 1902 to December 1905, September to December 1907, October 1920 to September 1994, October 1996 to September 1997. Monthly discharge only October to November 1920, published in WSP 1306.

REVISED RECORDS.--WSP 783: 1933-34, WSP 823: Drainage area. WSP 893: 1928(M), WSP 1306: 1900-1908. WSP 1336: 1903(M), 1921-22(M), 1923, 1925(M), 1927(M), 1928, 1932. WSP 1706: 1901(M).

GAGE.--Water-stage recorder. Datum of gage is 1,011.61 ft above sea level. See WSP 1910 for history of changes prior to Mar. 31, 1934.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation during low flow caused by powerplants above station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--From reports of Tennessee Valley Authority, the flood of Mar. 7, 1867, gage height, 24 ft, present datum, discharge estimated, 110,000 ft³/s, has not been exceeded since that date. From the same reports, other outstanding floods occurred Feb. 28, 1902, gage height, 23.0 ft present datum, discharge estimated, 101,000 ft³/s; and July 17, 1916, gage height, 22.5 ft present datum, discharge estimated 97,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0915	*17,300	*8.47	No other peak greater than base discharge.			

Minimum discharge, 504 ft³/s, Oct. 4, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	703	1880	1210	1590	1780	2290	3240	1380	2330	2360	650
2	821	770	1670	1190	1500	1640	2150	2960	1290	1740	2120	749
3	697	2960	1560	1180	1410	1650	3440	2730	1260	1440	2570	933
4	616	2570	1470	1190	1460	1580	13400	2740	1350	1300	2650	1280
5	881	1610	1360	1140	1470	1550	10300	3330	1460	1210	2460	1240
6	1410	1270	1340	1300	1410	1490	6790	3210	1700	1310	1980	1140
7	1100	1120	1350	1250	1390	1440	5060	2910	1440	2290	1610	862
8	803	1050	1400	1150	1390	1420	4250	2590	1250	1420	1470	783
9	700	980	1260	1200	1450	1380	3840	2410	1140	1200	1690	774
10	788	931	1240	2490	1520	1370	3470	2350	1080	1110	1540	906
11	1240	919	1310	5050	1610	1630	3150	2260	1020	1070	1400	865
12	2500	982	1440	3690	3060	3410	2990	2100	972	1190	1090	734
13	1810	942	1350	2640	5930	3390	2980	2080	964	1470	984	634
14	1220	861	1530	2280	6030	2610	3720	1820	928	1410	905	633
15	1020	834	3900	1920	6930	2270	3630	1790	987	2770	870	609
16	932	812	3150	1780	4820	1950	4300	1600	1070	2150	875	677
17	844	788	2310	1730	3550	2290	4320	1550	1020	1550	818	681
18	781	761	1950	2620	2990	3120	4300	1520	1090	1270	740	573
19	754	760	1750	3730	2830	2670	4050	1500	1270	1180	901	573
20	749	751	1650	2920	2690	6790	3610	1500	1200	1200	896	580
21	834	740	1630	2530	2440	11600	3390	1610	1140	1170	977	659
22	1230	803	1670	2080	2240	8410	3220	1790	1660	1050	1040	810
23	1120	871	1650	1920	2100	5950	3100	1850	1670	978	1000	1380
24	930	984	1560	1880	1920	4210	2970	2020	1270	1530	938	1400
25	844	885	1470	1770	1850	3590	3150	2560	1080	2270	877	1340
26	795	4740	1360	1630	1780	3160	3650	2730	1170	2030	790	1560
27	768	6280	1350	1370	1750	2970	3450	2220	1260	1740	838	1120
28	754	4870	1340	1290	1840	2900	3610	1860	1690	1470	873	952
29	728	3330	1290	1520	1890	2690	4670	1700	5210	1280	773	817
30	711	2280	1240	1530	---	2390	3910	1620	3700	1280	710	780
31	709	---	1250	1530	---	2350	---	1490	---	1530	645	---
TOTAL	30239	48157	50680	60710	72840	95650	127160	67640	43721	46938	39390	26694
MEAN	975	1605	1635	1958	2512	3085	4239	2182	1457	1514	1271	890
MAX	2500	6280	3900	5050	6930	11600	13400	3330	5210	2770	2650	1560
MIN	616	703	1240	1140	1390	1370	2150	1490	928	978	645	573
CFSM	.53	.86	.88	1.05	1.35	1.66	2.28	1.17	.78	.81	.68	.48
IN.	.61	.96	1.01	1.22	1.46	1.92	2.55	1.35	.88	.94	.79	.53

TENNESSEE RIVER BASIN

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03455000 FRENCH BROAD RIVER NEAR NEWPORT, TN--Continued

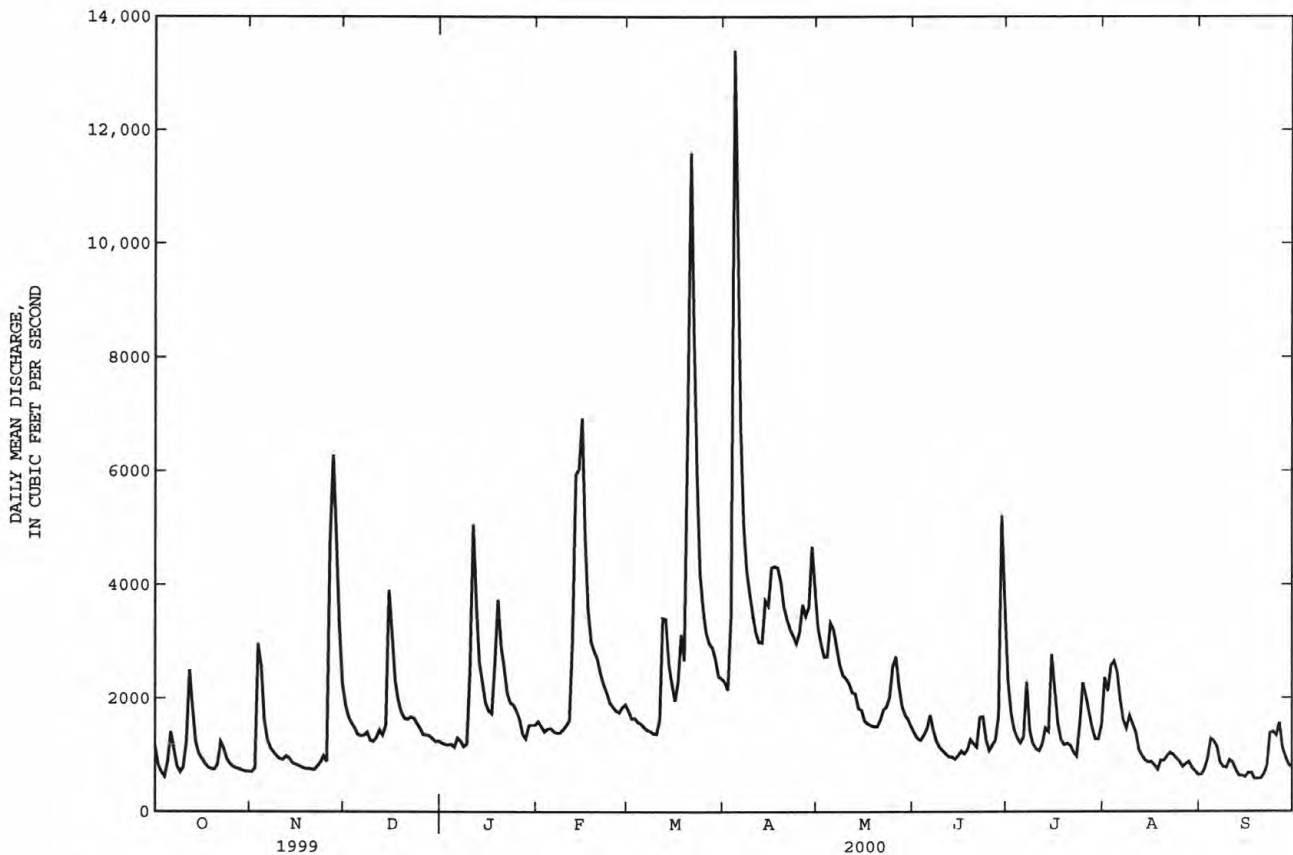
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1892	2138	2854	3570	4247	4863	4357	3367	2609	2224	2285	1734
MAX	9875	7249	7478	9533	8814	12710	11650	9448	6148	7620	14640	6358
(WY)	1965	1980	1962	1937	1990	1903	1903	1901	1901	1905	1901	1928
MIN	508	713	819	968	1450	1399	1362	1252	722	711	380	421
(WY)	1955	1932	1940	1956	1941	1988	1986	1941	1988	1986	1925	1925

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1901 - 2000	
ANNUAL TOTAL	733312		709819			
ANNUAL MEAN	2009		1939		2954	
HIGHEST ANNUAL MEAN					4641	
LOWEST ANNUAL MEAN					1348	
HIGHEST DAILY MEAN	7650		13400		62200	
LOWEST DAILY MEAN	354		a573		240	
ANNUAL SEVEN-DAY MINIMUM	385		618		276	
INSTANTANEOUS PEAK FLOW			17300		76300	
INSTANTANEOUS PEAK STAGE			8.47		19.25	
INSTANTANEOUS LOW FLOW			b504		208	
ANNUAL RUNOFF (CFSM)	1.08		1.04		1.59	
ANNUAL RUNOFF (INCHES)	14.68		14.21		21.60	
10 PERCENT EXCEEDS	3750		3560		5480	
50 PERCENT EXCEEDS	1710		1470		2280	
90 PERCENT EXCEEDS	680		786		970	

a Also occurred on Sept. 19.

b Also occurred on Sept. 20.



TENNESSEE RIVER BASIN

03461500 PIGEON RIVER AT NEWPORT, TN

LOCATION.--Lat 35°57'38", long 83°10'28", Cocke County, Hydrologic Unit 06010106, on left bank 100 ft upstream from bridge on U.S. Highway 25 and 70 at Newport, 0.6 mi downstream from Morell Branch, and at mile 6.8

DRAINAGE AREA.--666 mi².

WATER-DISCHARGE RECORD

PERIOD OF RECORD.-- September 1900 to September 1929, October 1944 to September 1946, August 1948 to February 1982, October 1996 to current year. Monthly discharge only for some periods, published in WSP 1306. Published as "near Newport" 1945-46.

REVISED RECORDS.--WSP 1143: Drainage area. WSP 1306: 1901, 1904-10. WSP 1336: 1903, 1917(M), 1919-20(M), 1921, 1924(M), 1927-29(M), 1948-52 (monthly runoff).

GAGE.--Water-stage recorder. Datum of gage is 1,038.76 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1929, nonrecording gage at present site at datum 2.00 ft higher. May 8, 1945, to July 22, 1946, water-stage recorder at site 4.8 mi downstream at datum 35.85 ft lower. August 13, 1948, to Sept. 30, 1970, at present site at datum 2.00 ft higher.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. Considerable regulation by Lakes Junaluska, Logan, and Walters for periods of low flow, combined usable capacity of reservoirs about 12,500 cfs-days. The largest of these, Lake Walters, usable capacity, 10,400 cfs-days was completed in 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Mar. 7, 1867, and June 17, 1876, reached a stage of 23 ft present datum, under present conditions about 21.1 ft, due to removal of mill dam in 1945, discharge, 48,000 ft³/s, and flood of August 30, 1940, reached a stage of 19.3 ft present datum, discharge 36,000 ft³/s, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	1115	*10,600	*9.06	No other peak greater than base discharge.			

Minimum discharge, 161 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	252	1460	495	607	854	618	711	866	917	670	366
2	244	286	1210	512	1280	940	1310	1390	587	433	571	463
3	232	1260	608	664	860	835	2580	1560	856	360	1240	313
4	273	591	605	411	347	474	7040	2180	530	587	946	383
5	415	436	219	327	300	310	4200	1460	865	352	1130	315
6	346	390	222	583	283	774	3030	1110	829	654	567	356
7	280	373	809	394	405	855	2740	1840	697	538	517	257
8	247	361	340	473	637	940	1700	845	666	561	700	299
9	244	344	732	843	731	612	2040	1770	560	317	494	288
10	305	567	587	2240	397	276	1560	1580	577	373	1000	216
11	855	417	545	1710	310	921	1310	1130	297	729	572	345
12	684	221	883	1020	2020	1630	1430	1450	273	690	531	288
13	446	222	312	1340	3030	1800	1730	593	606	781	376	312
14	364	209	1640	2050	3340	1080	1920	285	317	1080	225	368
15	331	231	1630	1390	2890	559	2180	467	612	1860	583	370
16	305	333	833	613	2310	398	1030	561	425	1100	380	320
17	294	1090	1100	849	2130	925	1480	404	761	807	527	176
18	292	256	823	2230	1620	1330	2100	452	515	677	358	252
19	288	268	362	1350	997	1160	1230	556	319	461	636	249
20	295	218	1420	1030	741	2640	1620	724	825	737	290	194
21	418	188	674	829	1470	3290	1250	570	557	447	235	240
22	434	187	331	1030	1390	2420	952	522	1040	604	508	208
23	347	201	314	807	594	2010	1450	636	423	287	348	206
24	297	215	490	1090	1040	1900	1570	2320	585	431	557	227
25	276	185	600	877	1170	974	1280	2220	307	1030	550	325
26	269	2270	687	1280	883	972	1760	1240	267	771	678	916
27	264	2650	429	1210	675	1560	1330	761	515	587	344	890
28	261	756	570	1260	601	1460	2010	1040	390	306	199	444
29	255	1160	447	318	633	1100	2120	833	2520	547	467	398
30	254	1410	601	496	---	914	1090	813	1530	433	379	646
31	252	---	305	301	---	828	---	563	---	894	434	---
TOTAL	10451	17547	21788	30022	33691	36741	57660	32586	20117	20351	17012	10630
MEAN	337	585	703	968	1162	1185	1922	1051	671	656	549	354
MAX	855	2650	1640	2240	3340	3290	7040	2320	2520	1860	1240	916
MIN	232	185	219	301	283	276	618	285	267	287	199	176
CFSM	.51	.88	1.06	1.45	1.74	1.78	2.89	1.58	1.01	.99	.82	.53
IN.	.58	.98	1.22	1.68	1.88	2.05	3.22	1.82	1.12	1.14	.95	.59

TENNESSEE RIVER BASIN

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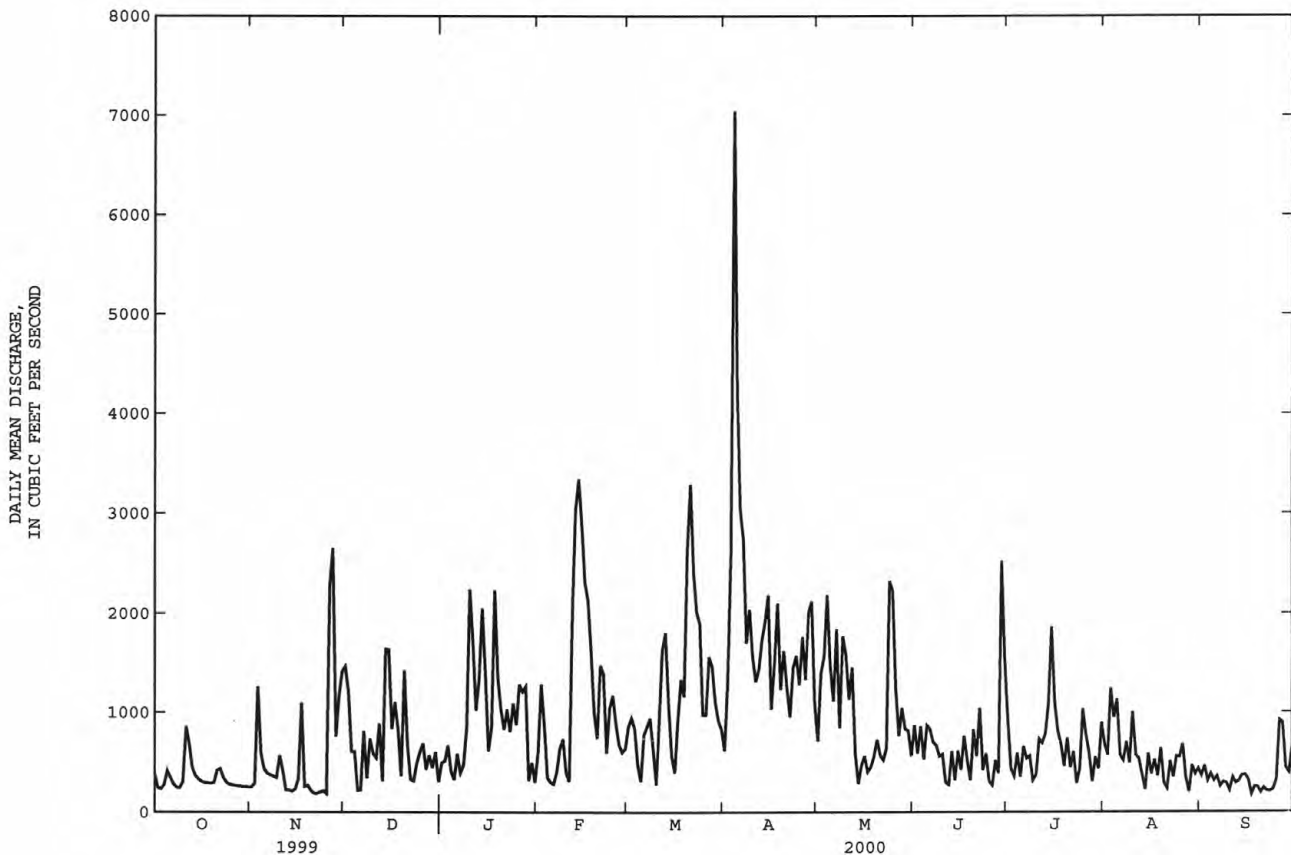
03461500 PIGEON RIVER AT NEWPORT, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	634	767	1246	1606	1836	2201	1819	1323	1076	907	771	607
MAX	2263	2265	3271	3407	4762	5136	4270	2693	2436	2498	2229	2182
(WY)	1965	1980	1962	1974	1957	1963	1903	1929	1967	1916	1928	1928
MIN	148	234	391	369	853	907	716	651	457	328	158	145
(WY)	1979	1954	1904	1981	1904	1915	1967	1914	1925	1925	1925	1953

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1901 - 2000	
ANNUAL TOTAL	341810		308596			
ANNUAL MEAN	936		843		1226	
HIGHEST ANNUAL MEAN					1761	
LOWEST ANNUAL MEAN					644	
HIGHEST DAILY MEAN	3480		7040		31000	
LOWEST DAILY MEAN	144		176		48	
ANNUAL SEVEN-DAY MINIMUM	152		209		65	
INSTANTANEOUS PEAK FLOW			10600		50000	
INSTANTANEOUS PEAK STAGE			9.06		a23.40	
INSTANTANEOUS LOW FLOW			161		38	
ANNUAL RUNOFF (CFSM)	1.41		1.27		1.84	
ANNUAL RUNOFF (INCHES)	19.09		17.24		25.01	
10 PERCENT EXCEEDS	1880		1740		2430	
50 PERCENT EXCEEDS	797		601		930	
90 PERCENT EXCEEDS	224		266		330	

a Present datum, under present conditions, the stage for this flood would be about 1.9 ft lower due to removal of dam 1.3 miles downstream in 1945, from reports of Tennessee Valley Authority.



TENNESSEE RIVER BASIN

03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN

LOCATION.--Lat 36°10'35", long 82°27'27", Washington County, Hydrologic Unit 06010108, on left bank, at Embreeville, 1,000 ft upstream from bridge on State Highway 81, 3 mi northwest of Erwin, 5.2 mi downstream from North Indian Creek, and at mile 89.0.

DRAINAGE AREA.--805 mi².

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--September 1900 to May 1901 (published as "near Chucky Valley"), October 1919 to current year. Monthly discharge only October 1919 to June 1920, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1935(M). WSP 823: Drainage area. WSP 1336: 1921-24, 1931(M).

GAGE.--Data collection platform. Datum of gage is 1,519.30 ft above sea level. Sept. 1, 1900 to May 21, 1901, nonrecording gage at site 3 mi downstream at different datum, destroyed by flood of May 21, 1901. July 1, 1920 to Sept. 30, 1931, nonrecording gage at bridge 2,000 ft downstream at datum 6.33 ft lower.

REMARKS.--No estimated daily discharges. Records good. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 21, 1901, reached a stage of 24 ft, discharge, 120,000 ft³/s, present site and datum, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 26	1245	*14,400	*6.22	Apr 4	1345	9,900	5.13
Mar 20	1645	12,200	5.69				

Minimum discharge, 285 ft³/s, Sept. 17, 18, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	538	317	914	534	631	976	1100	1770	961	1500	1920	438
2	417	2510	821	531	657	933	1070	1630	868	1060	2590	642
3	349	2580	762	520	611	897	1750	1510	812	864	2310	660
4	339	1130	711	518	758	885	7570	1430	866	746	2490	585
5	430	831	669	535	688	857	5000	1330	802	714	1850	492
6	412	697	692	521	591	809	3240	1250	907	822	1300	434
7	353	626	719	485	687	770	2480	1460	804	836	1040	466
8	315	579	631	467	730	755	2100	1260	701	677	918	456
9	301	537	591	576	828	730	1880	1130	639	590	847	436
10	413	504	601	2320	937	721	1650	1070	603	545	995	470
11	865	483	694	2560	1070	1050	1500	1000	573	574	914	411
12	739	554	652	1480	3640	2230	1470	931	550	835	734	381
13	533	513	605	1210	5030	1730	1470	887	525	929	637	360
14	498	460	1260	1080	5660	1400	1530	843	512	926	580	351
15	464	433	1620	925	4430	1250	1660	789	547	905	533	329
16	409	408	1110	864	2860	1160	3600	747	633	829	495	307
17	384	398	938	867	2210	1480	2810	737	600	659	467	286
18	370	388	846	1110	1880	1480	2880	724	592	552	454	285
19	360	385	784	1330	2160	1310	2710	694	561	526	542	288
20	375	385	748	1260	2230	5950	2320	683	563	614	493	303
21	464	385	770	1050	1770	6550	2250	765	845	547	662	390
22	444	404	780	809	1540	3700	2200	807	998	478	580	434
23	395	410	747	911	1400	2690	2060	767	832	449	491	407
24	365	394	685	962	1280	2160	1880	1800	639	764	510	415
25	349	413	660	824	1190	1850	1940	3880	541	1600	546	487
26	342	6370	567	726	1120	1660	2200	2190	553	1120	466	648
27	340	3320	620	667	1080	1520	1970	1510	728	831	447	577
28	330	1740	603	564	1150	1510	1960	1250	1220	755	468	446
29	324	1300	573	731	1060	1310	2430	1500	4870	834	409	385
30	318	1060	540	755	---	1270	2010	1340	2920	974	384	355
31	317	---	537	741	---	1210	---	1100	---	988	375	---
TOTAL	12852	30514	23450	28433	49878	52803	70690	38784	27765	25043	27447	12924
MEAN	415	1017	756	917	1720	1703	2356	1251	926	808	885	431
MAX	865	6370	1620	2560	5660	6550	7570	3880	4870	1600	2590	660
MIN	301	317	537	467	591	721	1070	683	512	449	375	285
MED	375	508	694	809	1150	1310	2040	1130	670	822	580	424
CFSM	.52	1.26	.94	1.14	2.14	2.12	2.93	1.55	1.15	1.00	1.10	.54
IN.	.59	1.41	1.08	1.31	2.30	2.44	3.27	1.79	1.28	1.16	1.27	.60

TENNESSEE RIVER BASIN

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03465500 NOLICHUCKY RIVER AT EMBREEVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	813	1012	1286	1716	2060	2351	2023	1581	1129	939	912	757
MAX	2630	4720	3073	4020	4494	5102	4169	3171	3196	2525	4876	2648
(WY)	1930	1978	1962	1995	1957	1963	1983	1984	1992	1949	1940	1928
MIN	246	294	353	382	635	649	699	597	376	351	182	187
(WY)	1954	1940	1940	1940	1941	1988	1986	1941	1988	1988	1925	1925

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

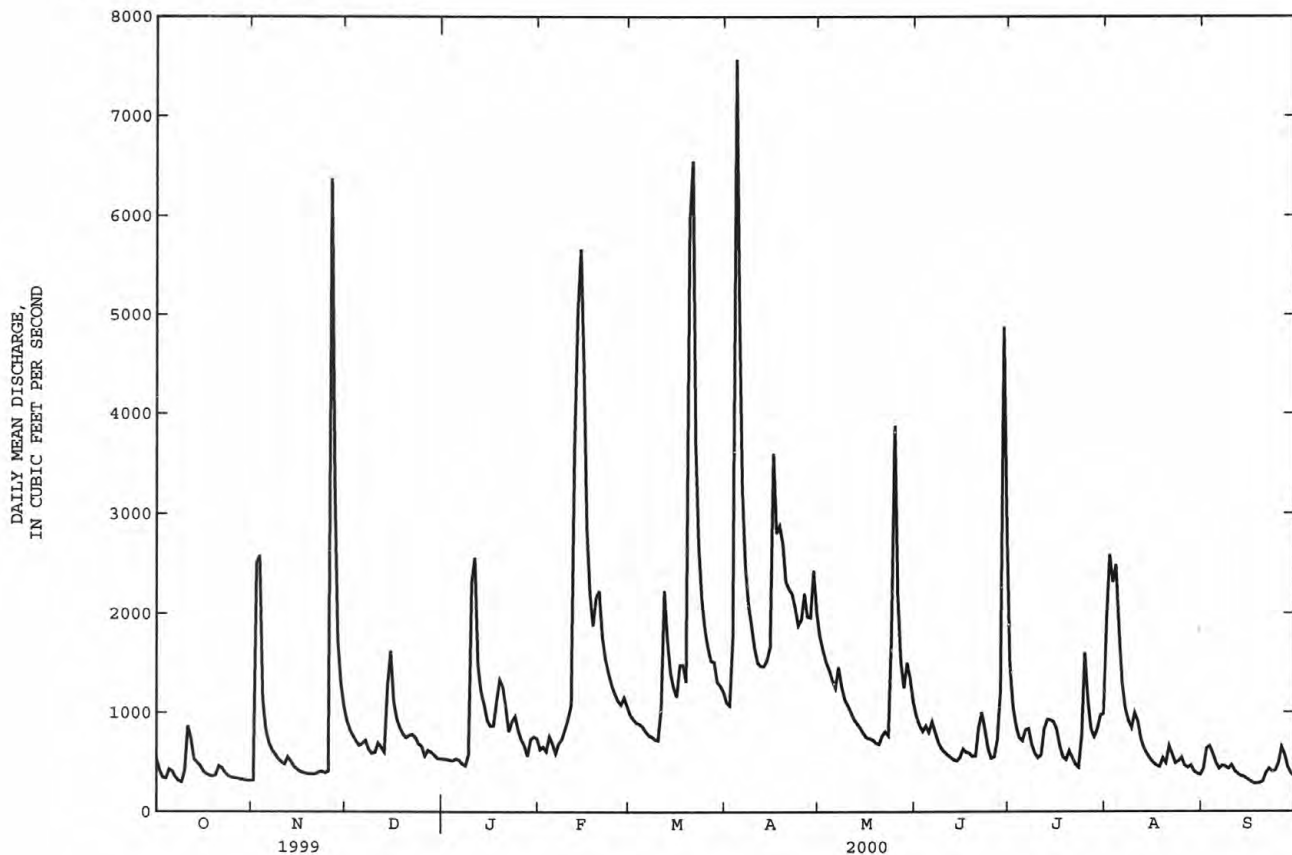
WATER YEARS 1920 - 2000

ANNUAL TOTAL	367071	400583	
ANNUAL MEAN	1006	1094	1377
HIGHEST ANNUAL MEAN			1948
LOWEST ANNUAL MEAN			694
HIGHEST DAILY MEAN	6370	Nov 26	7570
LOWEST DAILY MEAN	167	Sep 27	285
ANNUAL SEVEN-DAY MINIMUM	183	Sep 21	307
INSTANTANEOUS PEAK FLOW			14400
INSTANTANEOUS PEAK STAGE			6.22
INSTANTANEOUS LOW FLOW			b285
ANNUAL RUNOFF (CFSM)	1.25		1.36
ANNUAL RUNOFF (INCHES)	16.96		18.51
10 PERCENT EXCEEDS	1950		2200
50 PERCENT EXCEEDS	762		760
90 PERCENT EXCEEDS	322		393

a From rating curve extended above 48,000 ft³/s on basis of contracted opening and slope area measurements of peak flow.

b Also occurred on Sept. 18, 19.

c Also occurred on Sept. 9, 1995.



TENNESSEE RIVER BASIN

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN

LOCATION.--Lat 36°12'21", long 82°39'02", Greene County, Hydrologic Unit 06010108, on right bank, 0.6 mi above confluence with Nolichucky River, 1.8 mi southwest of Limestone, and at mile 0.6.

DRAINAGE AREA.--79.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1996 to February 2000, August 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,340 ft above sea level, from topographic map.

REMARKS.--Records fair. Period observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR PERIOD.--Maximum discharge, 1,930 ft³/s, May 27, 1996, gage height, 5.41 ft minimum, 21 ft³/s, Sept. 19, 1997.

EXTREMES FOR CURRENT YEAR.--October 1999 to February 2000, August 2000 to September 30. Maximum discharge, 431 ft³/s, Aug. 10, gage height, 4.26 ft; minimum, 14 ft³/s, Oct. 7, 8, 9, 19, Dec. 26, Jan. 2, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	17	16	33	---	---	---	---	---	e27	36
2	15	17	17	16	29	---	---	---	---	---	e29	36
3	15	20	17	16	27	---	---	---	---	---	e35	34
4	16	19	17	17	26	---	---	---	---	---	e60	36
5	17	18	17	16	24	---	---	---	---	---	e45	57
6	16	18	17	17	23	---	---	---	---	---	e40	39
7	15	18	16	15	22	---	---	---	---	---	e35	35
8	15	18	16	15	21	---	---	---	---	---	e64	34
9	14	18	16	21	21	---	---	---	---	---	54	36
10	19	18	19	75	21	---	---	---	---	---	162	36
11	19	18	20	39	20	---	---	---	---	---	79	33
12	16	17	18	e22	36	---	---	---	---	---	65	34
13	16	16	17	e22	44	---	---	---	---	---	58	34
14	18	16	23	e21	76	---	---	---	---	---	53	33
15	16	16	21	e19	57	---	---	---	---	---	53	34
16	16	15	18	e18	44	---	---	---	---	---	53	30
17	16	15	17	e17	37	---	---	---	---	---	51	30
18	15	15	17	e45	37	---	---	---	---	---	46	32
19	15	15	17	e32	109	---	---	---	---	---	44	33
20	17	16	17	33	82	---	---	---	---	---	43	32
21	16	16	17	30	62	---	---	---	---	---	44	31
22	16	16	17	25	52	---	---	---	---	---	39	29
23	15	17	16	25	e47	---	---	---	---	---	39	24
24	16	16	16	23	e45	---	---	---	---	---	62	24
25	16	18	16	21	e43	---	---	---	---	---	59	27
26	15	60	16	20	e40	---	---	---	---	---	46	28
27	16	31	17	e25	e42	---	---	---	---	---	46	26
28	16	21	16	e35	e44	---	---	---	---	---	45	24
29	16	19	16	e50	e42	---	---	---	---	---	40	22
30	16	17	15	41	---	---	---	---	---	---	37	22
31	16	---	15	42	---	---	---	---	---	---	36	---
TOTAL	496	570	531	829	1206	---	---	---	---	---	1589	961
MEAN	16.0	19.0	17.1	26.7	41.6	---	---	---	---	---	51.3	32.0
MAX	19	60	23	75	109	---	---	---	---	---	162	57
MIN	14	15	15	15	20	---	---	---	---	---	27	22
CFSM	.20	.24	.22	.34	.53	---	---	---	---	---	.65	.41
IN.	.23	.27	.25	.39	.57	---	---	---	---	---	.75	.45

TENNESSEE RIVER BASIN

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03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.4	34.2	53.8	88.7	108	143	121	106	75.2	67.2	46.7	30.0
MAX	34.9	67.5	127	172	175	264	165	137	104	93.0	65.8	40.8
(WY)	1997	1997	1997	1997	1997	1997	1998	1998	1998	1998	1998	1996
MIN	16.0	19.0	17.1	26.7	41.6	96.3	73.9	65.5	37.6	38.0	20.8	15.5
(WY)	2000	2000	2000	2000	2000	1998	1999	1999	1999	1999	1999	1999

SUMMARY STATISTICS

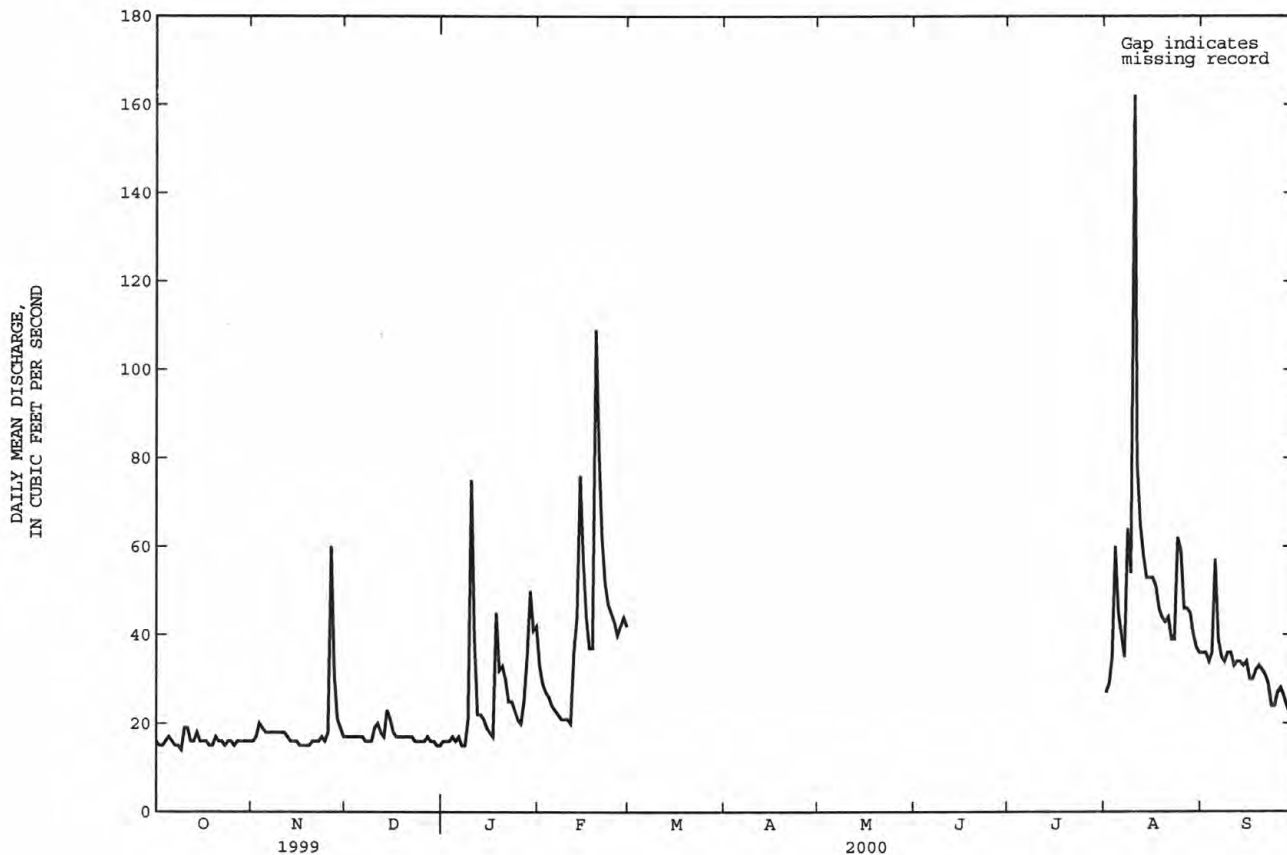
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1996 - 2000

ANNUAL TOTAL	17529		
ANNUAL MEAN	48.0		79.6
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			51.6
HIGHEST DAILY MEAN	252	Jan 24	162
LOWEST DAILY MEAN	14	Sep 16	14
ANNUAL SEVEN-DAY MINIMUM	15	Sep 12	15
INSTANTANEOUS PEAK FLOW			431
INSTANTANEOUS PEAK STAGE			4.26
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (CFSM)	.61		1.01
ANNUAL RUNOFF (INCHES)	8.25		13.69
10 PERCENT EXCEEDS	98		142
50 PERCENT EXCEEDS	34		55
90 PERCENT EXCEEDS	16		21

e Estimated



TENNESSEE RIVER BASIN

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1996 to February 2000 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1996 to February 23, 2000 (discontinued).

WATER TEMPERATURE: March 1996 to February 23, 2000 (discontinued).

INSTRUMENTATION.--Two-parameter water-quality monitor since March 1996.

REMARKS.--Specific conductance records fair, temperature records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 609 microsiemens, May 11, 1999; minimum, 158 microsiemens, July 31, 1998.

WATER TEMPERATURE: Maximum, 25.4°C, July 11, 1999; minimum, 0.1°C, Jan. 6, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 534 microsiemens, Feb. 5; minimum, 416 microsiemens, Feb. 19.

WATER TEMPERATURE: Maximum, 18.2°C, Oct. 11; minimum, 0.1°C, Jan. 22.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO FEBRUARY 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	473	471	472	479	460	469	---	---	---	---	---	---
2	476	472	474	478	458	468	---	---	---	---	---	---
3	477	475	476	475	457	462	---	---	---	---	---	---
4	477	474	476	471	457	463	---	---	---	---	---	---
5	---	---	---	475	455	464	---	---	---	---	---	---
6	---	---	---	474	459	466	---	---	---	---	---	---
7	---	---	---	488	471	481	---	---	---	---	---	---
8	468	460	464	489	481	485	---	---	---	---	---	---
9	469	458	466	496	487	491	---	---	---	---	---	---
10	465	457	459	492	486	488	---	---	---	---	---	---
11	466	462	463	492	485	490	---	---	---	---	---	---
12	468	463	465	485	477	481	---	---	---	---	---	---
13	472	466	470	478	471	476	---	---	---	---	---	---
14	471	467	468	474	469	471	---	---	---	---	---	---
15	470	467	468	474	458	466	---	---	---	---	---	---
16	473	466	470	466	457	460	---	---	---	---	---	---
17	473	467	471	---	---	---	---	---	---	---	---	---
18	474	467	471	---	---	---	---	---	---	---	---	---
19	473	467	469	---	---	---	---	---	---	---	---	---
20	469	461	465	---	---	---	---	---	---	---	---	---
21	467	463	465	---	---	---	---	---	---	---	---	---
22	469	466	467	461	454	456	486	482	484	---	---	---
23	471	468	469	---	---	---	485	480	483	---	---	---
24	469	446	453	---	---	---	490	482	484	---	---	---
25	461	455	457	459	452	457	494	483	487	---	---	---
26	465	455	460	467	428	444	492	483	486	---	---	---
27	460	455	458	476	445	463	490	483	487	---	---	---
28	462	459	461	504	472	489	---	---	---	---	---	---
29	464	459	462	512	503	507	---	---	---	---	---	---
30	467	460	464	---	---	---	---	---	---	---	---	---
31	475	464	466	---	---	---	---	---	---	---	---	---
MONTH	477	446	466	512	428	473	494	480	485	---	---	---

TENNESSEE RIVER BASIN

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03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO FEBRUARY 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	534	501	514	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	499	486	493	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	480	457	467	---	---	---	---	---	---	---	---	---
13	502	469	482	---	---	---	---	---	---	---	---	---
14	499	441	459	---	---	---	---	---	---	---	---	---
15	484	461	475	---	---	---	---	---	---	---	---	---
16	495	484	491	---	---	---	---	---	---	---	---	---
17	499	495	497	---	---	---	---	---	---	---	---	---
18	499	492	496	---	---	---	---	---	---	---	---	---
19	495	416	447	---	---	---	---	---	---	---	---	---
20	457	417	436	---	---	---	---	---	---	---	---	---
21	486	457	473	---	---	---	---	---	---	---	---	---
22	503	486	496	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	534	416	479	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO FEBRUARY 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.1	14.3	15.4	14.6	12.5	13.7	5.1	3.3	4.2	6.9	4.2	5.5
2	15.6	13.7	14.9	15.4	11.9	14.2	4.8	2.4	3.7	8.1	5.5	6.9
3	16.3	14.4	15.5	11.9	8.5	10.4	5.5	3.5	4.6	10.2	7.3	8.5
4	17.6	16.3	17.0	9.2	6.7	8.1	7.4	5.1	6.3	11.3	9.4	10.6
5	17.5	16.0	17.0	9.0	6.4	7.8	8.4	5.2	6.8	9.4	5.3	7.3
6	16.0	14.3	15.2	9.6	7.0	8.3	9.3	7.1	8.5	5.4	3.6	4.6
7	15.2	13.7	14.7	11.9	9.4	10.7	7.1	4.9	6.0	4.8	2.6	3.7
8	16.0	14.2	15.3	13.4	11.3	12.3	6.1	4.0	5.1	3.7	2.2	3.1
9	16.8	15.9	16.4	13.8	11.7	12.7	6.6	4.9	5.8	5.6	3.6	4.5
10	17.5	16.8	17.2	13.5	11.4	12.5	8.7	6.5	7.9	8.3	5.6	7.1
11	18.2	17.4	17.8	13.6	12.1	12.8	8.3	6.5	7.4	7.8	6.5	7.2
12	17.9	16.4	17.3	13.1	11.0	12.1	8.0	5.9	7.1	6.6	5.1	6.0
13	17.3	16.4	16.8	12.5	10.5	11.5	10.4	8.0	9.2	---	---	---
14	16.9	15.7	16.5	12.5	10.1	11.4	10.5	8.4	10.0	---	---	---
15	16.0	14.5	15.4	12.1	9.8	11.1	8.4	6.6	7.6	---	---	---
16	16.0	14.3	15.4	9.8	7.0	8.6	7.0	4.9	6.1	---	---	---
17	16.1	14.4	15.5	7.4	5.1	6.3	5.5	3.7	4.6	---	---	---
18	16.1	14.3	15.5	6.8	4.5	5.6	5.5	3.6	4.7	---	---	---
19	14.3	13.6	14.0	7.3	4.6	6.0	7.9	5.1	6.5	---	---	---
20	14.0	12.6	13.6	8.9	6.2	7.7	9.1	7.5	8.2	5.5	3.5	4.9
21	12.6	11.4	12.0	12.4	8.9	10.8	8.6	7.8	8.3	3.5	1.2	2.1
22	11.9	10.1	11.2	12.7	10.3	11.6	7.8	5.1	6.8	1.2	.1	.5
23	11.3	9.6	10.5	12.5	10.6	11.7	5.4	3.8	4.6	2.3	.4	1.2
24	10.2	8.5	9.6	13.3	11.0	12.3	4.2	3.0	3.8	3.5	2.3	3.0
25	9.5	7.2	8.5	13.0	12.0	12.5	3.2	1.6	2.4	3.4	1.7	2.5
26	9.7	7.1	8.5	13.2	11.8	12.9	2.8	.6	1.6	2.1	.8	1.4
27	10.4	8.2	9.4	11.8	9.3	10.4	3.1	1.1	2.0	1.6	.2	.8
28	11.2	8.9	10.1	9.5	7.8	8.9	3.2	2.3	2.6	1.5	.3	.8
29	11.7	9.2	10.6	9.6	7.5	8.6	4.6	2.3	3.3	2.1	.8	1.4
30	12.4	10.0	11.4	7.5	4.7	6.0	3.7	2.0	2.9	3.1	2.1	2.6
31	14.0	11.7	12.9	---	---	---	4.9	2.6	3.7	3.2	2.5	2.9
MONTH	18.2	7.1	13.9	15.4	4.5	10.3	10.5	.6	5.6	11.3	.1	4.1

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO FEBRUARY 2000

[illegible]

TENNESSEE RIVER BASIN

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03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) (31501)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)
APR 27...	1200	494	8.4	13.4	728	11.5	115	170	270	200	240	24
MAY 31...	1330	502	8.1	19.5	744	8.4	94	400	240	1800	250	19
JUN 28...	1330	428	8.1	21.9	731	7.4	90	2000	1800	6500	190	14
JUL 31...	1530	494	8.2	22.4	732	8.7	105	670	560	1800	240	13
AUG 25...	1330	468	8.2	20.5	726	--	--	970	620	4800	220	9
SEP 27...	1130	480	8.3	14.8	737	9.5	97	200	190	760	240	21
DATE	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
APR 27...	73.6	13.7	3.5	3	.1	3.6	2	259	217	14.4	7.6	.2
MAY 31...	76.2	13.9	3.4	3	.1	4.5	0	279	229	12.9	7.9	.1
JUN 28...	58.7	11.4	2.9	3	.1	8.0	0	218	178	11.5	7.8	.2
JUL 31...	74.0	13.7	3.3	3	.1	4.4	0	278	228	10.5	8.2	.1
AUG 25...	67.7	12.4	3.0	3	.1	4.6	0	257	211	9.5	7.5	.2
SEP 27...	73.5	14.1	2.8	2	.1	4.6	0	269	221	9.5	6.4	.1
DATE	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
APR 27...	8.5	285	262	.39	1.57	.018	1.59	.030	.47	.38	2.0	.084
MAY 31...	10.2	294	276	.40	2.03	.034	2.07	.048	.29	.55	2.6	.136
JUN 28...	8.7	261	227	.35	2.29	.038	2.33	.041	.50	.91	3.2	.335
JUL 31...	8.4	290	269	.39	2.22	.017	2.24	.031	.22	.42	2.7	.121
AUG 25...	8.3	271	247	.37	1.72	.012	1.73	.025	.26	.40	2.1	.118
SEP 27...	9.9	270	260	.37	--	<.010	1.48	<.020	.21	.26	1.7	.120

TENNESSEE RIVER BASIN

03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)
APR 27...	.058	.042	20	17	2.4	<.2	<.002	<.002	.027	<.002	<.002
MAY 31...	.091	.076	E10	23	2.3	.6	<.002	<.002	.393	<.002	<.002
JUN 28...	.195	.165	E10	15	4.2	1.1	<.002	<.002	2.30	<.002	<.002
JUL 31...	.078	.061	<10	14	--	--	<.002	<.002	.098	<.002	<.002
AUG 25...	.071	.057	<10	9	--	--	<.002	<.002	.061	<.002	<.002
SEP 27...	.084	.075	10	12	--	--	<.002	<.002	.053	<.002	<.002
DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)
APR 27...	<.004	<.004	E.032	<.002	<.001	<.003	<.004	<.005	<.004	.031	<.006
MAY 31...	<.004	<.010	E.032	<.002	<.001	<.003	<.004	<.005	<.004	.399	<.006
JUN 28...	.010	<.004	E.091	<.002	<.001	<.003	<.004	<.005	<.004	2.05	<.006
JUL 31...	<.004	.008	E.042	<.002	<.001	<.003	<.004	<.005	<.004	.196	<.006
AUG 25...	<.004	<.004	E.050	<.002	<.001	<.003	<.004	<.005	<.004	.039	<.006
SEP 27...	<.004	<.004	E.053	<.002	<.001	<.003	<.004	<.005	<.004	.013	<.006
DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U (UG/L) (82674)	DCPA WATER FLTRD 0.7 U (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82663)
APR 27...	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004
MAY 31...	<.004	<.007	<.018	.024	<.002	<.003	<.003	<.002	<.003	<.017	<.004
JUN 28...	<.004	<.007	E.014	.009	<.002	E.006	<.003	<.002	<.003	<.017	<.004
JUL 31...	<.004	<.007	<.018	.007	<.002	<.003	<.003	<.002	<.003	<.017	<.004
AUG 25...	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004
SEP 27...	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004

E--Estimated

TENNESSEE RIVER BASIN

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03466208 BIG LIMESTONE CREEK NEAR LIMESTONE, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT (UG/L) (82686)	METHYL PARA- THION WAT FLT (UG/L) (82667)	MOL- INATE WATER FLTRD (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD (UG/L) (82684)	PEB- ULATE WATER FILTRD (UG/L) (82669)	PENDI- METH- ALIN WAT FLT (UG/L) (82683)	PER- METHRIN CIS WAT FLT (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
APR 27...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAY 31...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUN 28...	<.003	<.002	<.002	<.001	<.006	<.004	<.010	<.004	<.004	<.005	<.002
JUL 31...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
AUG 25...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
SEP 27...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR 27...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	23	59
MAY 31...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	37	96
JUN 28...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	101	99
JUL 31...	<.003	<.004	<.013	E.008	<.007	<.013	<.001	<.002	<.002	52	76
AUG 25...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	25	94
SEP 27...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	--	--

E--Estimated

TENNESSEE RIVER BASIN

03466228 SINKING CREEK AT AFTON, TN

LOCATION.--Lat 36°11'55", long 82°44'31", Greene County, Hydrologic Unit 06010108, on left bank 300 ft upstream from bridge on county road, 0.4 mi northwest of Afton, and at mile 3.1.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--July 1977 to September 2000 (discontinued).

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1,459.36 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0015	*100	*2.64				

Minimum discharge, 1.9 ft³/s, Sept. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.7	3.2	2.8	7.2	7.6	8.8	8.9	6.3	5.6	4.4	3.9
2	3.2	3.1	3.2	2.7	6.0	7.3	8.8	8.7	6.0	5.2	4.3	3.9
3	3.1	3.2	3.1	2.7	5.6	7.0	27	8.5	13	4.9	6.1	8.1
4	3.4	2.9	3.1	3.0	5.5	7.0	64	8.2	10	4.7	10	4.6
5	3.1	2.9	3.0	2.8	5.0	6.7	28	8.0	7.3	4.6	5.3	6.8
6	3.0	2.9	3.1	2.7	4.6	6.3	22	7.7	7.0	4.7	4.6	6.8
7	2.9	3.0	2.9	2.7	4.4	5.9	19	7.5	6.4	4.6	4.4	5.0
8	2.9	2.8	2.9	2.7	4.2	5.8	18	7.3	6.0	4.3	4.2	4.5
9	3.1	2.8	2.9	4.4	4.1	5.6	17	7.2	5.6	4.2	4.0	4.3
10	3.7	2.8	3.6	17	4.0	5.5	15	7.5	5.4	4.1	17	4.0
11	3.5	2.8	3.3	8.6	3.9	14	14	7.1	5.2	5.2	8.0	3.9
12	3.2	2.8	3.1	5.6	8.3	18	14	7.0	5.0	5.9	6.6	3.8
13	3.4	2.8	3.1	5.0	9.1	12	15	6.7	4.9	11	6.0	3.8
14	3.3	2.8	4.3	4.3	15	9.7	14	6.3	4.9	6.4	5.6	3.7
15	3.1	2.8	3.8	4.0	11	8.7	14	6.2	5.2	11	5.3	3.6
16	3.0	2.7	3.4	3.9	8.5	8.3	13	6.1	5.6	6.4	5.1	3.5
17	3.0	2.7	3.3	3.6	7.2	12	12	6.0	5.0	5.7	4.8	3.4
18	2.9	2.8	3.1	9.5	6.9	10	12	5.9	5.4	5.4	4.7	3.4
19	3.0	2.8	3.1	8.1	29	9.2	12	5.8	5.1	5.5	4.6	3.3
20	3.5	2.7	3.0	8.4	17	22	11	6.2	4.9	5.4	4.7	3.3
21	3.2	2.8	3.1	7.6	13	17	11	6.7	4.7	5.4	4.7	3.7
22	3.1	2.7	3.2	6.1	11	14	11	6.2	5.8	5.0	4.4	3.6
23	3.0	2.7	3.1	5.4	10	12	10	6.7	5.0	5.0	4.3	3.4
24	3.0	2.7	3.1	4.9	9.3	11	11	25	4.7	16	9.7	3.4
25	2.9	3.8	3.0	4.7	8.6	10	12	16	4.5	8.2	5.5	4.2
26	2.9	7.7	3.0	4.4	8.1	10	12	11	4.3	6.0	4.6	4.0
27	3.0	4.8	2.9	3.8	8.3	11	11	8.5	5.1	5.4	5.2	3.7
28	2.9	3.9	3.0	3.4	8.6	11	10	8.3	7.9	5.0	4.8	3.5
29	2.8	3.6	2.8	4.1	7.9	9.7	9.8	7.8	9.6	4.7	4.3	3.2
30	2.8	3.4	2.8	11	---	10	9.2	7.1	6.4	4.4	4.1	3.2
31	2.8	---	2.8	9.5	---	9.4	---	6.7	---	4.4	4.0	---
TOTAL	95.9	94.9	97.3	169.4	251.3	313.7	465.6	252.8	182.2	184.3	175.3	123.5
MEAN	3.09	3.16	3.14	5.46	8.67	10.1	15.5	8.15	6.07	5.95	5.65	4.12
MAX	3.7	7.7	4.3	17	29	22	64	25	13	16	17	8.1
MIN	2.8	2.7	2.8	2.7	3.9	5.5	8.8	5.8	4.3	4.1	4.0	3.2
CFSM	.23	.23	.23	.40	.63	.74	1.13	.60	.44	.43	.41	.30
IN.	.26	.26	.26	.46	.68	.85	1.26	.69	.49	.50	.48	.34

TENNESSEE RIVER BASIN

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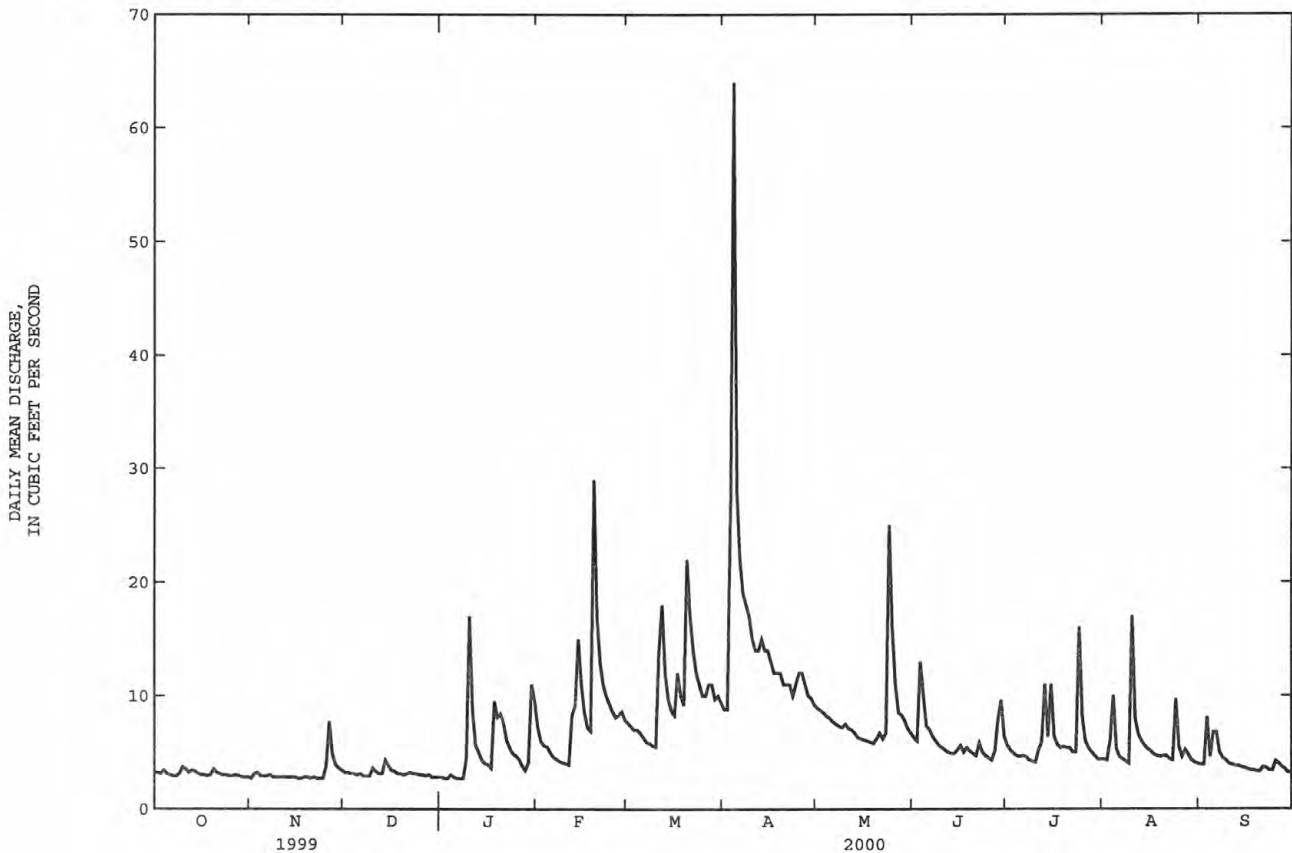
03466228 SINKING CREEK AT AFTON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.79	6.52	11.0	18.4	24.9	24.2	18.7	15.2	11.6	10.8	7.16	5.63
MAX	10.5	26.0	32.6	38.4	57.1	53.1	48.9	50.6	21.0	32.5	14.6	18.5
(WY)	1990	1978	1992	1996	1994	1994	1994	1984	1989	1979	1984	1982
MIN	1.28	2.16	3.04	3.23	8.67	5.96	4.13	3.49	2.11	1.86	1.68	1.49
(WY)	1989	1987	1988	1981	2000	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1977 - 2000
ANNUAL TOTAL	3593.1	2406.2	
ANNUAL MEAN	9.84	6.57	13.2
HIGHEST ANNUAL MEAN			21.5
LOWEST ANNUAL MEAN			3.62
HIGHEST DAILY MEAN	72	64	561
LOWEST DAILY MEAN	2.7	2.7	1.1
ANNUAL SEVEN-DAY MINIMUM	2.7	2.7	1.1
INSTANTANEOUS PEAK FLOW		100	1510
INSTANTANEOUS PEAK STAGE		2.64	7.79
INSTANTANEOUS LOW FLOW		al.9	.90
ANNUAL RUNOFF (CFSM)	.72	.48	.96
ANNUAL RUNOFF (INCHES)	9.76	6.53	13.06
10 PERCENT EXCEEDS	21	12	25
50 PERCENT EXCEEDS	6.6	5.0	8.7
90 PERCENT EXCEEDS	2.9	2.9	3.2

a Also occurred Sept. 30.



TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°07'34", long 83°10'31", Cocke County, Hydrologic Unit 06010108, on left bank at Jones Bridge on Tennessee Highway 160, 2.85 mi southeast of Lowland, and at mile 10.3.

DRAINAGE AREA.--1,687 mi².

PERIOD OF RECORD.--March 1996 to February 1998 (destroyed by flood of February 1998). Re-established November 1998 to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1996 to February 1998, November 1998 to September 2000.

WATER TEMPERATURE: March 1996 to February 1998, November 1998 to September 2000.

INSTRUMENTATION.--Two-parameter water-quality monitor since March 1996.

REMARKS.--Specific conductance records fair. Water temperature records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 340 microsiemens, May 26, 1997; minimum, 60 microsiemens, Jan. 9, 1998.

WATER TEMPERATURE: Maximum, 30.1°C, Aug. 1, 1999; minimum, 0.0°C, Jan. 28, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 301 microsiemens, Sept. 25, may have been higher during period of missing record; minimum, 86 microsiemens, Nov. 28.

WATER TEMPERATURE: Maximum, 29.5°C, June 14; minimum, 0.0°C, Jan. 28.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	247	237	240	230	221	227	121	108	113	171	162	167
2	247	219	238	235	227	232	127	121	124	171	159	166
3	219	196	205	233	205	225	135	127	132	171	158	165
4	196	192	193	209	136	168	143	135	139	169	153	161
5	194	187	190	136	106	121	151	143	145	162	150	155
6	191	185	188	118	106	111	155	150	152	163	151	157
7	191	186	188	129	118	124	159	155	157	166	156	160
8	190	185	188	141	129	134	160	156	159	173	161	166
9	204	190	196	148	141	146	160	154	156	181	165	169
10	217	204	213	152	147	149	166	159	163	225	169	199
11	219	215	217	158	152	156	168	163	166	235	167	204
12	222	212	218	171	158	164	174	167	171	167	131	147
13	221	211	217	181	171	178	177	173	175	131	126	128
14	211	202	206	186	181	184	186	174	182	136	130	133
15	210	196	204	191	184	187	182	159	174	142	132	137
16	198	192	195	191	183	187	164	156	160	147	141	144
17	197	192	194	193	184	188	163	139	150	151	147	149
18	200	194	198	194	188	190	139	129	133	201	136	166
19	206	198	202	190	181	186	136	131	134	219	188	203
20	206	203	205	197	181	189	137	132	135	205	192	195
21	206	194	201	202	197	200	144	137	140	193	187	190
22	198	194	195	202	197	200	148	143	145	192	178	188
23	209	194	201	208	199	204	151	143	146	186	176	180
24	216	209	214	209	198	204	157	151	154	191	183	187
25	220	214	217	207	198	204	160	155	157	188	183	185
26	222	217	219	218	192	209	159	151	155	197	187	191
27	222	214	218	243	89	161	158	151	155	206	192	199
28	220	211	215	93	86	89	156	148	152	212	191	202
29	212	204	208	100	91	95	156	147	152	216	203	209
30	211	205	208	108	99	103	159	150	154	241	212	228
31	222	207	215	---	---	---	165	153	159	283	241	269
MONTH	247	185	207	243	86	170	186	108	151	283	126	177

TENNESSEE RIVER BASIN

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03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	258	236	249	247	233	239	208	203	206	144	136	141
2	236	225	230	238	230	234	205	199	202	150	144	147
3	237	229	233	235	229	232	214	193	203	158	149	153
4	246	236	240	242	231	236	---	---	---	162	154	158
5	247	235	240	240	232	235	---	---	---	165	159	161
6	240	234	236	232	227	231	---	---	---	166	157	162
7	239	233	235	231	220	225	---	---	---	169	160	165
8	242	211	225	234	221	227	---	---	---	167	159	163
9	218	209	213	229	220	224	---	---	---	166	159	162
10	218	208	212	232	224	228	---	---	---	166	160	163
11	223	208	216	244	213	227	---	---	---	179	166	170
12	217	191	204	262	243	250	---	---	---	179	172	174
13	216	117	176	251	205	227	---	---	---	178	174	176
14	146	114	129	205	187	196	---	---	---	179	174	177
15	130	107	114	203	187	194	---	---	---	182	177	180
16	108	105	106	208	187	199	---	---	---	182	176	180
17	120	106	113	221	184	206	---	---	---	180	176	179
18	131	119	125	226	216	220	---	---	---	194	180	186
19	183	131	154	218	205	213	---	---	---	191	185	189
20	173	152	160	210	195	202	---	---	---	194	189	191
21	163	151	159	213	119	163	---	---	---	194	170	191
22	183	157	170	131	117	126	---	---	---	207	191	196
23	230	183	205	136	128	131	---	---	---	207	173	192
24	209	201	206	150	133	141	---	---	---	249	178	207
25	218	207	210	166	147	153	174	139	161	249	194	222
26	243	209	224	177	166	174	187	169	179	206	151	170
27	251	240	247	188	172	176	172	158	165	172	155	166
28	259	247	253	198	187	194	161	152	156	171	164	167
29	269	247	257	198	193	196	166	149	159	177	167	174
30	---	---	---	204	192	197	150	138	144	202	175	188
31	---	---	---	207	201	204	---	---	---	197	172	182
MONTH	269	105	198	262	117	203	214	138	175	249	136	175

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	179	171	175	---	---	---	---	---	---	242	214	225
2	182	177	179	---	---	---	---	---	---	256	223	238
3	185	161	179	---	---	---	---	---	---	249	232	241
4	204	175	191	---	---	---	---	---	---	255	242	251
5	206	188	198	---	---	---	---	---	---	256	244	251
6	213	203	208	---	---	---	---	---	---	246	233	239
7	211	197	207	---	---	---	---	---	---	242	232	238
8	207	198	203	---	---	---	---	---	---	242	214	228
9	220	202	209	---	---	---	---	---	---	226	218	221
10	207	199	203	---	---	---	---	---	---	247	217	226
11	209	203	206	185	177	182	---	---	---	231	215	222
12	213	206	208	185	180	183	---	---	---	223	215	219
13	215	206	210	203	185	190	---	---	---	235	210	222
14	214	206	210	205	173	198	---	---	---	---	---	---
15	221	211	216	224	169	205	---	---	---	---	---	---
16	226	216	221	227	221	224	---	---	---	---	---	---
17	227	222	225	264	217	221	---	---	---	---	---	---
18	225	218	221	235	216	224	---	---	---	---	---	---
19	229	218	223	---	---	---	---	---	---	---	---	---
20	226	209	220	---	---	---	---	---	---	---	---	---
21	239	211	222	---	---	---	---	---	---	---	---	---
22	238	196	212	---	---	---	---	---	---	---	---	---
23	230	219	223	---	---	---	---	---	---	---	---	---
24	231	213	219	---	---	---	---	---	---	---	---	---
25	214	197	206	---	---	---	---	---	---	301	239	255
26	204	197	201	---	---	---	243	231	238	240	232	236
27	209	202	205	---	---	---	245	204	229	234	214	226
28	216	208	212	---	---	---	242	230	236	224	214	220
29	---	---	---	---	---	---	245	239	243	220	209	217
30	---	---	---	---	---	---	239	219	230	219	207	212
31	---	---	---	---	---	---	236	216	222	---	---	---
MONTH	239	161	208	264	169	203	245	204	233	301	207	231

TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.7	18.7	19.6	15.5	14.0	14.8	8.0	6.8	7.4	5.7	3.4	4.5
2	21.0	18.1	19.3	15.7	13.6	15.0	7.2	6.0	6.5	6.8	4.2	5.4
3	20.6	17.9	19.4	13.6	11.7	12.6	6.8	5.9	6.3	7.6	5.6	6.5
4	20.8	19.5	20.2	12.8	11.3	11.9	7.7	6.1	6.8	8.5	7.3	7.8
5	20.4	19.0	19.6	11.5	10.1	10.9	7.6	6.0	6.8	8.0	6.6	7.2
6	20.0	17.6	18.6	11.6	10.0	10.6	7.6	7.0	7.3	6.9	4.7	5.8
7	19.8	16.9	18.4	12.7	10.5	11.5	7.1	5.6	6.3	6.5	4.2	5.4
8	19.9	17.5	18.7	13.6	11.6	12.5	7.1	5.4	6.2	5.7	4.2	5.0
9	19.6	18.9	19.2	14.0	11.9	12.9	7.2	6.0	6.7	5.9	5.0	5.4
10	19.3	19.0	19.2	14.1	12.0	13.0	8.1	6.9	7.5	7.4	5.8	6.4
11	20.1	19.0	19.5	14.5	12.8	13.7	8.7	7.1	7.8	7.0	6.0	6.7
12	20.5	18.5	19.4	14.9	12.7	13.7	8.6	6.9	7.8	6.9	5.8	6.4
13	19.6	18.6	19.0	14.4	12.4	13.5	9.7	7.9	8.7	7.7	6.6	7.0
14	20.1	18.2	18.9	14.6	12.1	13.4	9.7	8.7	9.3	7.0	5.4	6.2
15	19.7	17.0	18.4	13.9	11.9	12.9	9.2	7.7	8.4	5.6	4.4	5.1
16	19.8	16.9	18.3	12.4	10.4	11.3	8.6	7.4	8.1	5.6	5.0	5.3
17	19.7	17.0	18.4	10.9	8.9	9.8	7.5	6.6	7.1	5.9	5.1	5.6
18	19.2	17.5	18.3	9.9	7.9	8.9	7.1	6.2	6.7	5.6	4.7	4.9
19	17.7	16.3	16.8	10.0	7.9	8.9	8.2	6.6	7.3	5.2	4.3	4.7
20	16.4	15.3	16.0	10.8	9.0	9.8	8.7	7.4	8.0	5.1	4.5	4.9
21	16.2	14.5	15.1	12.1	10.8	11.3	8.1	7.5	7.7	4.5	3.0	3.6
22	15.1	13.4	14.3	13.0	11.0	11.9	7.7	6.7	7.1	3.0	1.4	2.2
23	14.5	12.9	13.4	12.9	11.5	12.2	6.7	5.5	6.0	2.3	1.5	1.8
24	13.6	12.1	12.7	13.5	12.4	13.0	6.0	4.8	5.4	2.7	2.2	2.4
25	13.2	10.8	11.9	13.7	13.2	13.4	4.8	3.5	4.1	2.3	1.3	1.8
26	13.1	10.9	11.9	13.7	12.6	13.4	4.4	2.6	3.4	1.9	1.1	1.4
27	13.5	11.3	12.2	12.8	12.0	12.5	4.5	2.6	3.5	1.8	.3	.9
28	13.9	11.7	12.6	12.3	11.1	11.5	4.0	3.0	3.5	1.7	.0	.8
29	14.1	12.1	12.9	11.4	10.1	10.8	4.8	3.1	3.7	1.7	.8	1.3
30	14.2	12.4	13.2	10.1	8.0	9.1	4.1	2.6	3.4	1.9	1.5	1.7
31	15.5	13.3	14.1	---	---	---	4.8	2.7	3.6	1.9	1.4	1.6
MONTH	21.0	10.8	16.8	15.7	7.9	12.0	9.7	2.6	6.4	8.5	.0	4.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.8	1.2	1.4	12.4	11.1	11.8	15.0	12.6	13.9	17.2	14.6	15.9
2	3.0	1.0	1.8	13.0	11.3	12.1	15.2	14.5	14.8	18.4	16.7	17.4
3	3.5	1.2	2.4	11.7	10.9	11.3	15.4	14.6	14.9	19.6	17.2	18.3
4	3.2	2.6	2.9	11.8	10.7	11.1	15.0	13.9	14.5	19.5	18.5	19.1
5	3.5	2.2	2.7	12.5	10.2	11.1	13.9	12.1	12.7	21.1	18.6	19.7
6	3.5	1.6	2.6	13.2	10.7	11.7	13.3	11.0	12.1	22.3	19.8	20.9
7	5.0	2.4	3.5	13.8	11.2	12.2	14.4	12.2	13.3	23.4	20.9	22.0
8	5.5	3.0	4.2	14.8	11.8	13.0	14.3	12.5	13.4	23.8	21.5	22.6
9	5.8	3.5	4.6	15.1	12.6	13.7	13.9	11.7	12.7	24.0	22.0	23.0
10	6.3	4.1	5.1	15.9	13.1	14.5	13.8	11.9	13.0	23.8	22.2	23.0
11	7.6	5.2	6.4	15.1	13.4	14.3	13.5	12.5	13.1	23.5	20.7	22.0
12	7.4	6.7	7.1	13.4	10.9	12.0	13.9	13.0	13.3	24.7	22.1	23.1
13	8.0	7.0	7.4	11.7	10.3	11.0	13.1	12.5	12.7	24.7	23.3	23.8
14	8.0	7.1	7.5	11.2	9.2	10.3	14.6	12.3	13.4	24.1	22.1	23.0
15	8.4	7.4	7.8	11.3	9.7	10.6	15.1	13.7	14.4	23.2	21.2	22.0
16	8.7	7.4	8.0	12.0	10.8	11.3	16.7	14.8	15.6	22.7	20.5	21.4
17	8.7	7.5	8.2	12.7	11.4	12.0	16.2	15.3	15.7	22.3	20.9	21.5
18	9.8	8.4	9.0	12.3	10.5	11.5	15.4	14.0	14.4	24.3	20.6	22.1
19	10.4	9.4	9.9	12.1	11.2	11.5	15.7	13.9	14.6	24.3	22.1	23.2
20	9.4	8.8	9.1	12.5	10.7	11.5	16.0	14.1	15.1	24.0	22.6	23.3
21	8.9	7.8	8.4	12.0	10.1	11.2	15.8	14.4	15.1	24.1	22.5	23.1
22	8.4	7.4	7.9	11.4	9.8	10.6	14.4	14.0	14.2	24.3	22.3	23.2
23	9.7	8.1	8.7	12.4	10.2	11.3	14.7	13.0	13.9	23.2	21.5	22.4
24	10.1	8.6	9.4	14.0	11.5	12.7	14.4	12.5	13.1	21.8	21.3	21.5
25	11.6	9.5	10.5	15.1	13.3	14.2	12.5	12.2	12.4	22.1	21.3	21.7
26	12.8	10.5	11.5	16.1	14.2	15.1	14.4	12.2	13.1	21.4	20.1	20.6
27	12.6	12.1	12.3	15.3	13.4	14.3	14.7	12.4	13.6	22.1	20.0	20.9
28	12.9	11.0	11.8	14.4	12.6	13.4	15.0	13.9	14.5	22.3	21.1	21.6
29	12.7	10.8	11.7	13.2	11.7	12.5	15.4	14.0	14.7	21.5	20.6	21.0
30	---	---	---	12.6	11.8	12.2	16.2	13.9	15.0	22.4	20.1	21.1
31	---	---	---	14.4	11.6	12.8	---	---	---	23.4	21.0	22.1
MONTH	12.9	1.0	7.0	16.1	9.2	12.2	16.7	11.0	13.9	24.7	14.6	21.5

TENNESSEE RIVER BASIN

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03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	24.3	22.2	23.0	23.1	21.0	22.0	26.5	25.0	25.6	26.9	24.9	26.0
2	25.4	23.2	24.0	24.1	21.6	22.8	25.9	24.9	25.4	26.9	24.9	25.8
3	24.6	23.4	24.1	25.8	23.2	24.2	25.6	24.3	24.9	27.1	24.9	25.8
4	23.4	21.5	22.6	26.3	25.0	25.6	24.7	23.4	23.9	27.3	25.0	25.8
5	23.4	22.6	23.1	26.6	25.6	26.1	24.3	22.8	23.6	25.9	24.6	25.3
6	22.7	21.1	22.0	27.8	25.6	26.5	24.4	23.0	23.7	25.2	23.5	24.2
7	23.0	20.0	21.2	27.7	26.3	26.9	25.3	23.5	24.2	24.3	22.4	23.4
8	23.9	21.1	22.2	26.9	25.1	26.1	26.8	24.4	25.4	25.4	22.7	24.0
9	25.0	21.7	23.1	28.5	25.5	26.7	27.6	25.6	26.4	26.9	23.6	25.1
10	26.2	22.6	24.2	29.3	26.6	27.9	27.5	26.3	26.7	27.2	24.3	25.7
11	27.2	23.8	25.3	29.1	26.8	27.9	27.2	26.1	26.6	26.8	24.7	25.8
12	27.8	24.6	26.1	28.1	26.7	27.5	26.5	24.9	25.7	26.6	24.5	25.7
13	28.3	25.3	26.7	28.3	26.8	27.3	25.4	24.1	24.7	27.0	24.8	25.8
14	29.5	25.9	27.5	27.3	23.6	26.4	26.2	23.5	24.6	---	---	---
15	29.2	26.6	27.8	25.9	23.6	25.0	26.8	23.6	25.0	---	---	---
16	28.0	26.2	26.9	26.4	24.8	25.5	27.5	24.2	25.7	---	---	---
17	27.9	25.8	26.7	26.6	24.6	25.5	27.7	25.1	26.4	---	---	---
18	27.8	25.9	26.9	26.5	25.3	25.8	27.2	25.5	26.5	---	---	---
19	27.3	26.2	26.7	27.1	25.0	25.7	27.6	25.0	26.2	---	---	---
20	26.9	25.7	26.4	27.9	24.9	26.2	26.5	24.8	25.3	---	---	---
21	27.7	25.6	26.6	27.9	25.3	26.5	25.0	23.4	24.2	---	---	---
22	27.7	24.9	26.4	28.0	26.0	26.9	25.7	22.9	24.2	---	---	---
23	27.3	25.2	26.2	27.2	25.4	26.0	24.9	23.5	24.1	---	---	---
24	28.3	25.9	26.8	25.6	23.8	24.6	24.5	23.2	23.9	---	---	---
25	28.6	26.3	27.2	25.4	23.6	24.3	25.8	23.1	24.4	23.2	22.0	22.8
26	28.7	26.3	27.4	25.1	23.6	24.3	26.4	23.9	25.1	22.3	19.6	20.8
27	28.0	26.0	26.9	25.6	23.4	24.4	25.7	21.9	24.5	20.4	17.9	19.0
28	27.1	25.9	26.4	25.9	24.4	25.0	26.5	24.0	25.1	20.7	17.7	19.1
29	26.3	24.8	25.6	26.9	24.7	25.5	27.4	24.2	25.6	21.0	17.8	19.3
30	25.4	22.4	23.9	26.3	25.1	25.7	27.4	24.1	25.6	20.8	17.7	19.1
31	---	---	---	26.0	24.5	25.1	27.4	24.6	25.9	---	---	---
MONTH	29.5	20.0	25.3	29.3	21.0	25.7	27.7	21.9	25.1	27.3	17.7	23.6

TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
		(00095)	(00400)	(00010)	(00025)	(00300)	(00301)	(31625)	(31633)	(31501)	(00900)	(00904)
APR 26...	1115	186	7.9	12.0	737	9.7	93	700	1800	4500	89	21
MAY 31...	1045	171	7.7	21.0	744	7.6	87	K210	190	1300	72	12
JUN 29...	1315	201	7.9	25.0	738	6.6	82	410	530	3500	80	--
JUL 31...	1215	201	8.0	25.0	742	6.8	85	870	800	5800	83	7
AUG 25...	1030	221	8.1	22.0	735	--	--	110	100	420	93	6
SEP 26...	1100	241	8.0	20.5	742	7.6	87	150	190	320	97	7
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
		(00915)	(00925)	(00930)	(00932)	(00931)	(00935)	(00452)	(00453)	(39086)	(00945)	(00940)
APR 26...	26.9	5.29	3.0	7	.1	1.5	0	83	68	15.0	3.4	.1
MAY 31...	21.6	4.47	3.1	8	.2	1.9	0	73	60	10.2	4.3	.2
JUN 29...	23.5	5.06	5.0	12	.2	2.4	0	98	80	10.3	6.6	.2
JUL 31...	25.0	4.98	4.6	10	.2	2.5	0	92	75	9.7	5.8	.2
AUG 25...	27.9	5.74	5.1	10	.2	1.9	--	106	87	8.8	6.1	.3
SEP 26...	29.1	6.01	6.6	12	.3	2.6	0	110	90	11.2	8.2	.3
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	
		(00955)	(70300)	(70301)	(70303)	(00613)	(00631)	(00608)	(00623)	(00625)	(00600)	(00665)
APR 26...	7.5	118	106	.16	<.010	.520	<.020	.17	.39	.91	.073	
MAY 31...	8.8	104	94	.14	<.010	.683	.023	.11	.38	1.1	.091	
JUN 29...	7.7	119	112	.16	<.010	.716	<.020	.22	.42	1.1	.122	
JUL 31...	7.6	120	109	.16	<.010	.724	<.020	.16	.37	1.1	.138	
AUG 25...	4.8	123	115	.17	<.010	.524	<.020	.13	.21	.73	.055	
SEP 26...	5.4	129	126	.18	<.010	.535	<.020	.16	.22	.75	.079	

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

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03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC, (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)
APR 26...	.029	.023	30	5	2.5	.5	<.002	<.002	.070	<.002	<.002
MAY 31...	.033	.025	20	6	1.8	.5	<.002	<.002	.114	<.002	<.002
JUN 29...	.049	.028	E10	3	2.2	.8	<.002	<.002	.081	<.002	<.002
JUL 31...	.056	.042	E10	3	--	--	<.002	<.002	.028	<.002	<.002
AUG 25...	.031	.027	10	4	--	--	<.002	<.002	.012	<.002	<.002
SEP 26...	.037	.032	10	5	--	--	<.002	<.002	.011	<.002	<.002
DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)
APR 26...	<.004	<.004	E.004	<.002	<.001	<.003	<.004	<.005	<.004	.047	<.006
MAY 31...	<.004	<.004	E.010	<.002	<.001	<.003	<.004	<.005	<.004	.043	<.006
JUN 29...	<.004	<.004	E.010	<.002	<.001	<.003	<.004	<.005	.008	.057	<.006
JUL 31...	<.004	<.004	E.008	<.002	<.001	<.003	<.004	<.005	.027	.016	<.006
AUG 25...	<.004	<.004	E.007	<.002	<.001	<.003	<.004	<.005	.019	.007	<.006
SEP 26...	<.004	<.004	E.012	<.002	<.001	<.003	<.004	<.005	<.004	.004	<.006
DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...	<.004	<.007	E.005	.012	<.002	<.003	<.003	<.002	<.003	<.017	<.004
MAY 31...	<.004	<.007	<.018	.047	<.002	E.011	<.003	<.002	<.003	<.017	<.004
JUN 29...	<.004	<.007	E.006	.018	<.002	<.003	<.003	<.002	<.003	<.017	<.004
JUL 31...	<.004	<.007	E.005	<.005	<.002	E.006	<.003	<.002	<.003	<.017	<.004
AUG 25...	<.004	<.007	E.003	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004
SEP 26...	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004

E--Estimated

TENNESSEE RIVER BASIN

03467609 NOLICHUCKY RIVER NEAR LOWLAND, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
APR 26...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAY 31...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUN 29...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUL 31...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
AUG 25...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
SEP 26...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR 26...	<.003	<.004	<.013	E.009	<.007	<.013	<.001	<.002	<.002	33	93
MAY 31...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	47	95
JUN 29...	<.003	<.004	<.013	E.010	<.007	<.013	<.001	<.002	<.002	54	95
JUL 31...	<.003	<.004	<.013	E.008	<.007	<.013	<.001	<.002	<.002	56	95
AUG 25...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	17	92
SEP 26...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	--	--

E--Estimated

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TENNESSEE RIVER BASIN

03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN

LOCATION.--Lat 35°51'55", long 83°32'01", Sevier County, Hydrologic Unit 06010107, on left bank of county road, 1.2 mi downstream from East Fork, 1.2 mi upstream from West Prong, 0.8 mi east of Sevierville, and at mi 7.5.

DRAINAGE AREA.-- 184 mi².

PERIOD OF RECORD.--August 1988 to current year.

REVISED RECORD.--WDR TN-94-1: 1989-91 (M): 1992, 1993 (P).

GAGE.--Data collection platform. Datum of gage is 898.08 ft above sea level.

REMARKS.--No estimated daily discharge. Records good. The town of Sevierville diverts an average of about 1.5 ft³/s (1.0 MGD) for municipal supply above gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0300	5,060	8.75	May 24	1215	*7,610	*11.18

Minimum discharge, 35 ft³/s, Oct. 9, Nov. 23, 24, 25, Spt. 13, 14, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	40	105	58	174	147	167	345	209	505	196	48
2	65	87	93	56	151	136	170	301	181	329	192	49
3	51	216	85	55	135	125	1200	269	176	247	254	61
4	51	113	77	63	130	135	3270	358	356	202	299	67
5	76	85	73	143	120	137	1520	286	227	176	296	60
6	54	75	78	95	109	118	839	240	263	208	210	59
7	46	72	83	79	104	109	556	234	209	188	173	51
8	41	70	71	73	99	104	463	202	176	149	143	48
9	39	65	67	125	97	101	393	180	152	130	126	46
10	200	60	104	1450	95	106	325	170	135	117	191	45
11	370	56	159	659	98	940	293	157	123	116	170	43
12	181	54	108	326	896	1110	301	141	111	291	127	40
13	112	52	100	260	867	496	555	128	103	210	111	38
14	87	49	612	220	1560	335	745	121	99	339	100	40
15	71	47	265	173	795	260	544	110	96	285	89	42
16	62	45	176	153	477	223	432	104	96	212	81	41
17	55	43	137	149	356	521	356	101	94	164	75	40
18	50	42	117	475	295	411	336	96	108	137	74	40
19	57	41	104	497	469	314	338	89	97	194	145	40
20	86	40	93	441	355	749	285	103	94	231	87	39
21	129	40	87	e330	260	664	280	126	122	153	89	119
22	89	40	90	e260	218	463	262	174	373	129	77	126
23	73	39	81	e220	191	358	274	133	251	125	70	81
24	63	37	75	e190	170	293	293	2730	149	393	69	95
25	56	49	72	169	155	250	602	1170	118	385	71	380
26	53	1150	65	151	143	222	1040	665	238	288	64	559
27	50	467	64	e130	166	235	633	443	435	222	61	272
28	48	229	63	e130	215	258	579	375	297	247	64	163
29	45	159	59	127	165	205	538	363	2400	450	56	120
30	43	125	57	218	---	202	423	312	1150	244	51	98
31	42	---	56	204	---	187	---	248	---	218	49	---
TOTAL	2558	3687	3476	7679	9065	9914	18012	10474	8638	7284	3860	2950
MEAN	82.5	123	112	248	313	320	600	338	288	235	125	98.3
MAX	370	1150	612	1450	1560	1110	3270	2730	2400	505	299	559
MIN	39	37	56	55	95	101	167	89	94	116	49	38
CFSM	.45	.67	.61	1.35	1.70	1.74	3.26	1.84	1.56	1.28	.68	.53
IN.	.52	.75	.70	1.55	1.83	2.00	3.64	2.12	1.75	1.47	.78	.60

TENNESSEE RIVER BASIN

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03469175 LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

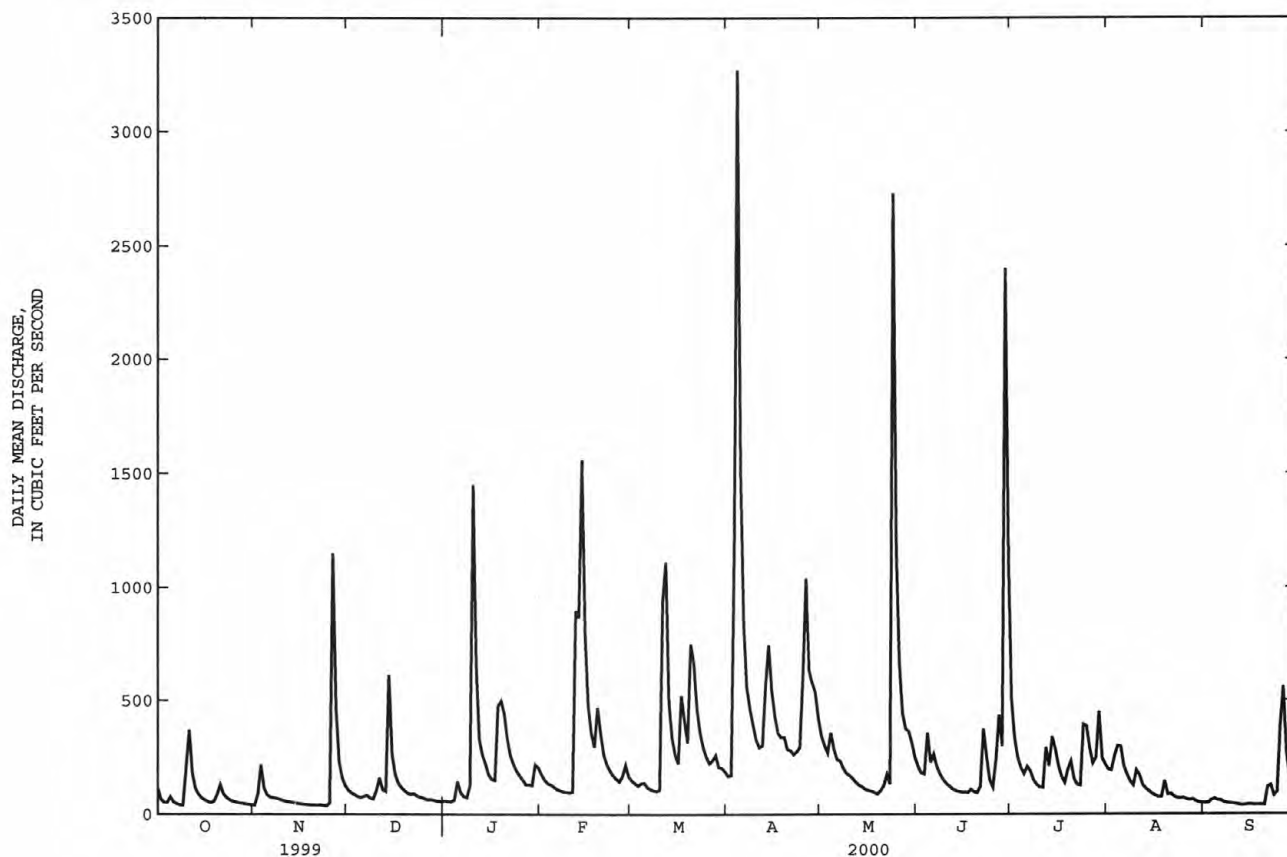
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	132	207	368	553	601	701	491	384	342	243	183	144
MAX	335	374	743	873	1024	1426	1141	576	635	510	477	530
(WY)	1990	1990	1992	1994	1994	1994	1994	1989	1997	1999	1996	1989
MIN	32.5	59.1	112	248	240	320	124	192	121	90.7	61.7	29.8
(WY)	1999	1999	2000	2000	1993	2000	1995	1995	1990	1993	1999	1998

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1988 - 2000

ANNUAL TOTAL	108647	87597	
ANNUAL MEAN	298	239	362
HIGHEST ANNUAL MEAN			573
LOWEST ANNUAL MEAN			221
HIGHEST DAILY MEAN	3120	May 6	10900
LOWEST DAILY MEAN	20	Sep 20	19
ANNUAL SEVEN-DAY MINIMUM	21	Sep 15	20
INSTANTANEOUS PEAK FLOW			7610
INSTANTANEOUS PEAK STAGE			11.18
INSTANTANEOUS LOW FLOW			a35
ANNUAL RUNOFF (CFSM)	1.62	1.30	1.97
ANNUAL RUNOFF (INCHES)	21.97	17.71	26.73
10 PERCENT EXCEEDS	714	476	769
50 PERCENT EXCEEDS	188	137	214
90 PERCENT EXCEEDS	40	50	58

a Also occurred on Nov. 23, 24, 25, Sept. 13, 14, 20.

e Estimated



TENNESSEE RIVER BASIN

03491000 BIG CREEK NEAR ROGERSVILLE, TN

LOCATION.--Lat 36°25'34", long 82°57'07", Hawkins County, Hydrologic Unit 06010104, on left bank 300 ft upstream from county road bridge, 3 mi northeast of Rogersville, and at mile 2.0.

DRAINAGE AREA.--47.3 mi².

PERIOD OF RECORD.--April 1941 to June 1949. Occasional low-flow measurements, water years 1950-55, 1957. Annual maximum, water years 1955-57; October 1957 to current year.

REVISED RECORDS.--WSP 1436: 1945.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 1,128.9 ft above sea level (levels based on City of Rogersville construction plans for pumping station). Dec. 7, 1954, to Sept. 30, 1957, crest-stage gage at same site and datum.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0430	*1,070	*4.51	No peak greater than base discharge.			

Minimum discharge, 1.6 ft³/s, Sept. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.8	e5.5	4.5	30	30	29	29	16	7.6	6.0	9.2
2	3.8	3.8	e5.2	4.3	25	27	28	27	14	6.0	5.2	14
3	3.3	5.1	4.8	4.4	22	23	71	29	13	6.0	4.6	14
4	3.2	6.2	4.6	5.4	23	21	611	26	12	4.5	4.2	8.4
5	2.9	5.8	4.6	7.0	23	19	199	23	13	4.1	3.9	6.8
6	2.8	5.0	5.2	7.6	20	17	120	21	12	4.6	3.7	6.7
7	2.9	4.5	6.0	6.8	19	16	88	19	11	4.8	3.6	4.9
8	3.0	4.5	5.7	5.9	19	15	80	17	9.8	4.8	4.8	4.1
9	3.2	4.0	5.3	7.0	19	14	74	16	8.8	3.9	5.6	3.3
10	4.8	4.0	6.3	110	20	14	61	15	7.9	3.5	4.6	2.9
11	6.2	4.0	11	69	22	e36	54	14	7.8	3.9	5.0	2.6
12	5.5	4.4	10	33	28	e150	56	13	7.2	5.4	4.7	2.2
13	4.8	4.1	8.3	25	31	68	51	12	6.6	8.8	3.8	1.9
14	4.5	4.1	28	22	87	47	54	12	6.3	8.7	3.4	1.8
15	3.8	4.0	26	18	71	37	51	11	5.8	21	3.2	1.8
16	3.7	3.7	14	15	46	32	47	10	5.7	12	2.9	1.8
17	3.7	3.6	10	14	35	40	43	9.7	6.4	7.9	2.8	2.1
18	3.4	3.5	8.3	27	42	38	42	9.3	6.1	5.8	2.9	2.0
19	3.2	3.4	7.1	48	59	34	37	9.2	6.7	5.3	2.6	1.9
20	4.3	3.5	6.3	41	49	98	33	13	7.4	5.9	2.5	1.7
21	4.9	3.6	6.3	34	40	122	31	15	6.8	5.4	2.5	1.9
22	5.7	3.7	6.3	26	34	74	30	14	6.4	4.6	2.6	1.8
23	4.6	3.7	6.2	25	30	56	27	17	5.7	4.2	2.6	2.4
24	3.7	3.6	5.8	22	26	45	27	125	5.1	22	4.7	2.3
25	3.6	5.2	5.4	19	23	39	65	58	4.6	12	21	4.3
26	3.4	58	5.1	18	21	34	67	49	4.4	7.9	5.9	20
27	3.3	35	4.7	16	23	32	55	31	4.8	5.8	3.6	10
28	3.3	e18	4.7	14	43	36	47	27	7.7	5.0	5.4	5.6
29	4.0	e10	4.7	15	35	29	40	30	15	4.3	6.5	4.1
30	4.4	e7.0	4.6	24	---	31	34	27	12	5.7	6.6	3.4
31	3.5	---	4.5	34	---	32	---	20	---	6.0	7.4	---
TOTAL	121.8	232.8	240.5	721.9	965	1306	2252	748.2	256.0	217.4	148.8	149.9
MEAN	3.93	7.76	7.76	23.3	33.3	42.1	75.1	24.1	8.53	7.01	4.80	5.00
MAX	6.2	58	28	110	87	150	611	125	16	22	21	20
MIN	2.8	3.4	4.5	4.3	19	14	27	9.2	4.4	3.5	2.5	1.7
CFSM	.08	.16	.16	.49	.70	.89	1.59	.51	.18	.15	.10	.11
IN.	.10	.18	.19	.57	.76	1.03	1.77	.59	.20	.17	.12	.12

TENNESSEE RIVER BASIN

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03491000 BIG CREEK NEAR ROGERSVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	14.4	29.6	71.4	105	131	131	90.2	57.8	29.8	23.3	17.0	11.7
MAX	109	124	258	331	472	366	342	206	150	96.5	67.1	58.7
(WY)	1972	1974	1992	1974	1994	1963	1998	1958	1989	1960	1942	1989
MIN	3.53	4.43	5.06	9.33	33.3	27.4	15.4	10.7	7.61	4.35	2.45	2.60
(WY)	1989	1988	1966	1981	2000	1983	1986	1985	1941	1988	1988	1999

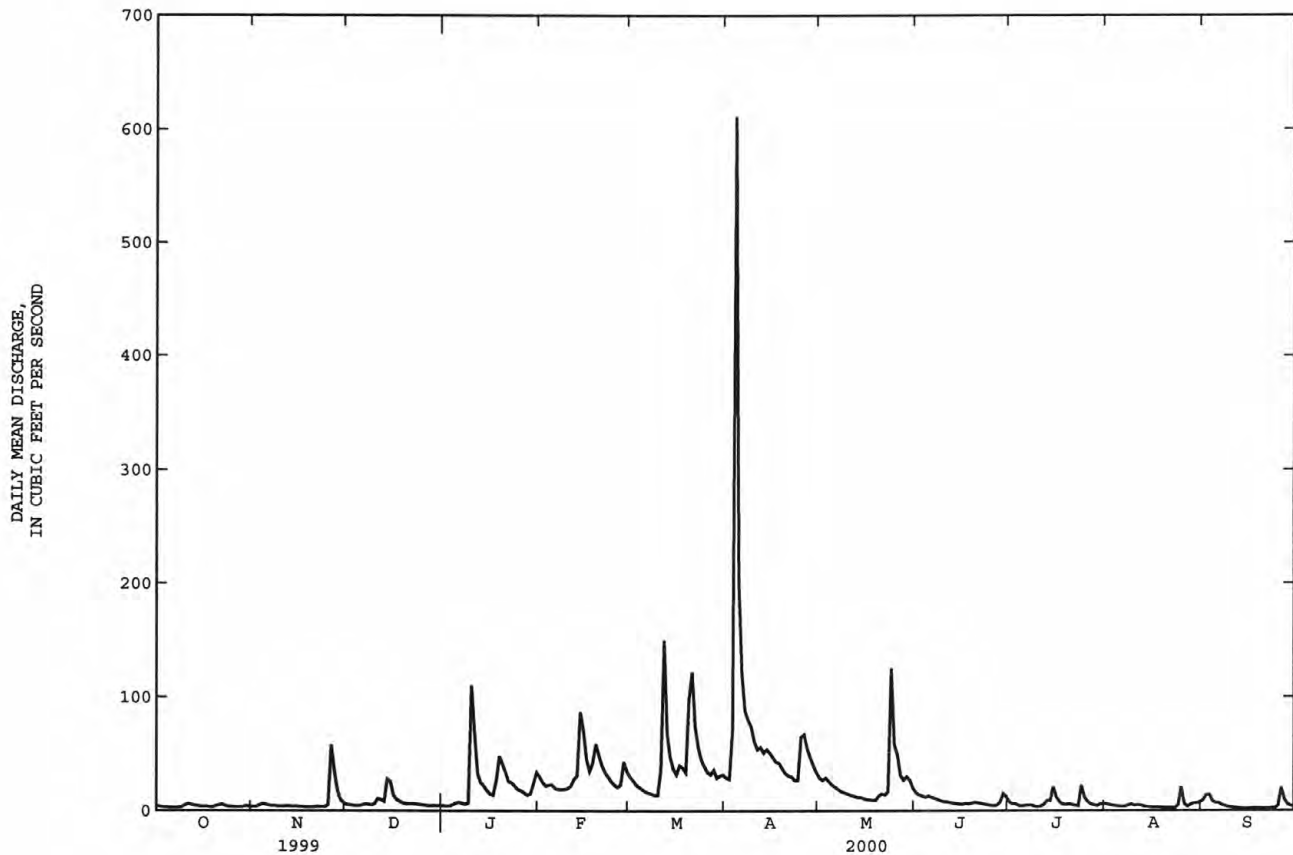
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1941 - 2000
ANNUAL TOTAL	12811.1	7360.3	
ANNUAL MEAN	35.1	20.1	58.9
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			20.1
HIGHEST DAILY MEAN	374	611	4000
LOWEST DAILY MEAN	2.1	1.7	1.4
ANNUAL SEVEN-DAY MINIMUM	2.3	1.9	1.8
INSTANTANEOUS PEAK FLOW		1070	a5760
INSTANTANEOUS PEAK STAGE		4.51	b12.21
INSTANTANEOUS LOW FLOW		c1.6	1.3
ANNUAL RUNOFF (CFSM)	.74	.43	1.25
ANNUAL RUNOFF (INCHES)	10.08	5.79	16.93
10 PERCENT EXCEEDS	89	46	127
50 PERCENT EXCEEDS	11	7.8	23
90 PERCENT EXCEEDS	3.3	3.4	5.3

a From rating curve extended above 3,000 ft³/s on basis of contracted-opening measurements of peak flow.

b Due to backwater from debris.

c Also occurred on Sept. 21.

e Estimated



TENNESSEE RIVER BASIN

03491544 CROCKETT CREEK BELOW ROGERSVILLE, TN

LOCATION.--Lat 36°22'47", long 83°02'48", Hawkins County, Hydrologic Unit 06010104, on right bank at Rogersville sewage treatment plant, 3.0 mi southwest of Rogersville, and at mile 1.2.

DRAINAGE AREA.--4.67 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1092.53 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 23	2245	*278	*3.18	Jul 13	1830	257	3.08

Minimum discharge 0.36 ft³/s, Sept. 15, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.54	.88	.72	2.8	2.4	2.9	2.5	1.8	1.2	.77	1.9
2	.50	1.3	.84	.73	2.5	2.2	3.1	3.8	1.5	1.0	.90	.72
3	.46	1.0	.78	.73	2.3	2.0	33	2.6	1.6	.91	.88	.60
4	1.5	.90	.76	1.8	2.1	2.1	36	2.2	1.5	.82	.73	.52
5	.60	.84	.79	1.0	1.9	1.8	13	2.0	1.3	1.1	.68	.56
6	.52	.81	1.4	.87	1.8	1.7	9.0	1.8	1.2	1.2	.65	.57
7	.48	.79	.81	.79	1.7	1.6	7.0	1.7	1.2	.86	.61	.53
8	.46	.81	.73	.76	1.6	1.5	7.3	1.6	1.1	.77	.97	.52
9	1.2	.81	.71	5.0	1.5	1.5	5.1	1.5	1.0	.71	.68	.53
10	1.8	.79	3.4	19	1.5	1.4	4.4	1.5	.97	.66	1.3	.56
11	1.1	.83	1.2	3.8	1.5	11	4.5	1.3	.92	3.5	.74	.50
12	.86	.81	1.0	2.6	3.1	6.6	4.4	1.3	.90	1.7	.64	.48
13	1.6	.78	2.2	4.4	2.2	4.5	5.7	1.2	.87	12	.58	.47
14	.97	.79	8.0	2.2	9.7	3.7	4.4	1.1	.82	6.6	.54	.46
15	.77	.85	1.9	1.8	4.2	3.2	4.0	1.1	.80	6.0	.51	.42
16	.69	.83	1.4	1.6	3.4	3.5	3.7	1.1	.86	1.6	.48	.43
17	.64	.84	1.2	1.4	2.9	6.8	4.0	1.0	.83	1.2	2.8	.44
18	.61	.83	1.1	7.1	5.3	3.8	3.3	1.0	.77	1.0	1.5	.45
19	.55	.84	.98	3.2	4.6	3.3	3.0	1.4	1.1	1.9	.71	.43
20	1.5	.85	.93	5.2	3.5	13	2.7	1.3	.90	1.1	.67	.43
21	.82	.87	.98	3.5	3.1	6.7	2.5	2.1	.84	.90	.62	1.5
22	.70	.86	1.0	2.8	2.8	5.4	2.3	2.2	1.3	.78	.56	.54
23	.60	.85	.87	2.6	2.6	4.6	2.1	25	.85	.82	.64	.50
24	.54	.84	.85	2.8	2.3	4.0	5.0	13	.77	3.1	1.1	.45
25	.51	6.0	.77	2.5	2.1	3.6	5.0	5.7	.71	1.0	.68	8.2
26	.50	9.6	.79	2.2	2.0	3.2	4.4	3.6	.79	.72	.60	1.3
27	.50	2.3	.79	1.9	4.8	5.1	3.6	3.1	1.0	.65	.89	.92
28	.48	1.6	.76	1.8	2.9	3.5	3.4	5.1	8.0	.66	.68	.75
29	.48	1.3	.73	3.2	2.6	3.0	3.2	3.0	2.3	.71	.59	.66
30	.47	1.0	.72	3.8	---	4.2	2.7	2.4	1.5	.97	.54	.60
31	.47	---	.72	3.4	---	3.1	---	2.0	---	.95	.50	---
TOTAL	23.43	42.06	39.99	95.20	85.3	124.0	194.7	100.2	40.00	57.09	24.74	26.94
MEAN	.76	1.40	1.29	3.07	2.94	4.00	6.49	3.23	1.33	1.84	.80	.90
MAX	1.8	9.6	8.0	19	9.7	13	36	25	8.0	12	2.8	8.2
MIN	.46	.54	.71	.72	1.5	1.4	2.1	1.0	.71	.65	.48	.42
CFSM	.16	.30	.28	.66	.63	.86	1.39	.69	.29	.39	.17	.19
IN.	.19	.34	.32	.76	.68	.99	1.55	.80	.32	.45	.20	.21

TENNESSEE RIVER BASIN

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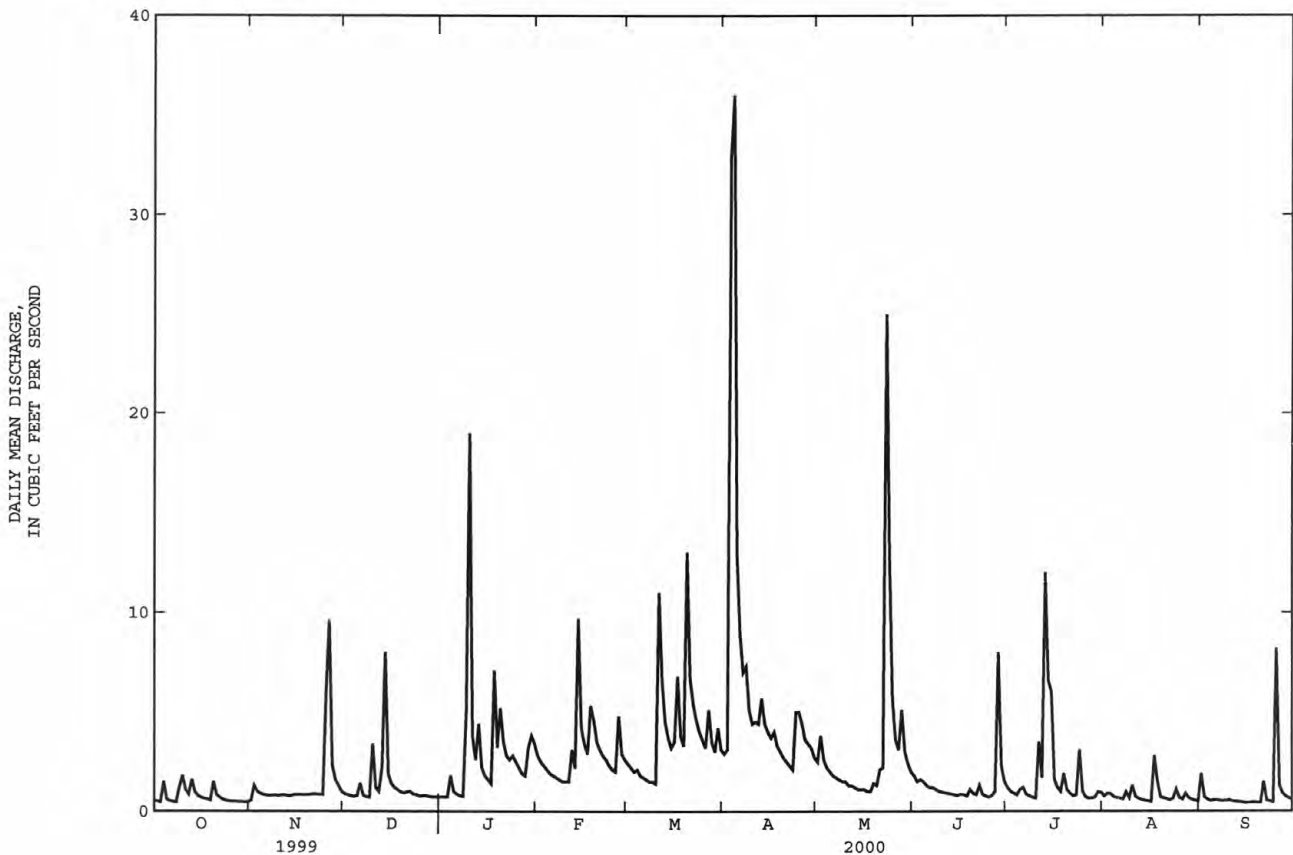
03491544 CROCKETT CREEK BELOW ROGERSVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.41	2.75	6.75	9.43	11.8	10.9	7.75	5.05	4.04	2.92	2.58	2.04
MAX	3.75	4.69	18.7	16.2	31.3	26.4	22.6	9.82	9.95	7.51	5.39	7.63
(WY)	1990	1990	1992	1996	1994	1994	1998	1995	1989	1996	1994	1989
MIN	.53	.80	1.29	3.07	2.94	4.00	1.62	2.37	1.01	.59	.78	.42
(WY)	1989	1999	2000	2000	2000	2000	1995	1994	1993	1993	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1989 - 2000
ANNUAL TOTAL	1136.07	853.65	
ANNUAL MEAN	3.11	2.33	5.59
HIGHEST ANNUAL MEAN			10.1
LOWEST ANNUAL MEAN			2.33
HIGHEST DAILY MEAN	34 Mar 3	36 Apr 4	223 Mar 27 1994
LOWEST DAILY MEAN	.32 Sep 11	.42 Sep 15	.31 Oct 20 1988
ANNUAL SEVEN-DAY MINIMUM	.34 Sep 20	.44 Sep 14	.34 Oct 14 1988
INSTANTANEOUS PEAK FLOW		278 May 23	996 Apr 17 1998
INSTANTANEOUS PEAK STAGE		3.18 May 23	5.39 Apr 17 1998
INSTANTANEOUS LOW FLOW		a.36 Sep 15	.28 Sep 11 1999
ANNUAL RUNOFF (CFSM)	.67	.50	1.20
ANNUAL RUNOFF (INCHES)	9.05	6.80	16.27
10 PERCENT EXCEEDS	7.1	4.7	12
50 PERCENT EXCEEDS	1.4	1.2	2.7
90 PERCENT EXCEEDS	.48	.55	.75

a Also occurred on Sept. 16.



TENNESSEE RIVER BASIN

03497300 LITTLE RIVER ABOVE TOWNSEND, TN
(Hydrologic bench-mark station)

LOCATION.--Lat 35°39'52", long 83°42'41", Blount County, Hydrologic Unit 06010201, in Great Smoky Mountains National Park, on left bank along Tennessee Highway 73, 0.3 mi upstream from Rush Branch, 0.4 mi southeast of Park entrance, 2.2 mi southeast of Townsend, and at mile 35.3.

DRAINAGE AREA.--106 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Data logger and crest-stage gage. Datum of gage is 1,106.92 ft above sea level.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 3	2315	*3,660	*6.01	May 24	1015	3,400	5.82

Minimum discharge, 30 ft³/s, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	41	131	74	195	203	189	353	238	304	89	43
2	47	191	116	72	179	190	214	321	213	229	103	67
3	39	200	106	70	169	178	803	324	206	188	115	84
4	97	125	97	138	164	195	1980	392	200	160	112	67
5	70	102	90	146	151	175	989	327	197	160	109	57
6	46	89	114	109	138	160	686	293	221	194	93	64
7	39	81	97	101	133	151	528	267	179	241	83	51
8	35	75	86	95	129	144	488	245	159	169	77	47
9	33	69	82	248	126	143	406	225	146	146	72	45
10	273	65	122	1190	126	140	360	226	134	129	134	43
11	227	61	129	666	141	508	333	199	125	129	90	41
12	122	58	107	418	609	760	350	182	116	293	72	39
13	91	55	120	354	630	494	499	170	118	237	66	37
14	75	52	380	277	1210	386	552	157	113	204	62	36
15	63	50	255	237	723	323	481	146	109	171	58	35
16	56	47	209	220	517	295	415	138	104	149	55	33
17	51	46	177	221	405	468	368	132	114	131	54	32
18	48	44	156	354	358	398	348	126	164	117	55	33
19	49	43	140	374	479	360	326	117	120	129	63	32
20	109	43	128	446	373	684	293	125	137	122	57	31
21	98	43	123	364	318	609	289	134	128	99	66	185
22	75	43	126	316	283	486	280	183	291	92	55	95
23	65	42	107	286	253	398	267	133	186	110	52	74
24	58	41	101	251	230	339	299	1210	135	170	55	140
25	54	72	93	219	213	298	569	763	112	149	74	503
26	51	752	88	196	198	273	802	556	111	128	55	470
27	48	375	87	175	245	280	606	424	119	111	51	252
28	46	245	81	181	248	263	554	401	157	102	51	169
29	44	189	78	182	214	228	465	366	1220	116	46	128
30	42	154	75	243	---	222	400	310	506	93	43	104
31	41	---	75	212	---	204	---	268	---	91	42	---
TOTAL	2263	3493	3876	8435	9157	9955	15139	9213	6078	4863	2209	3037
MEAN	73.0	116	125	272	316	321	505	297	203	157	71.3	101
MAX	273	752	380	1190	1210	760	1980	1210	1220	304	134	503
MIN	33	41	75	70	126	140	189	117	104	91	42	31
CFSM	.69	1.10	1.18	2.57	2.98	3.03	4.76	2.80	1.91	1.48	.67	.96
IN.	.79	1.23	1.36	2.96	3.21	3.49	5.31	3.23	2.13	1.71	.78	1.07

TENNESSEE RIVER BASIN

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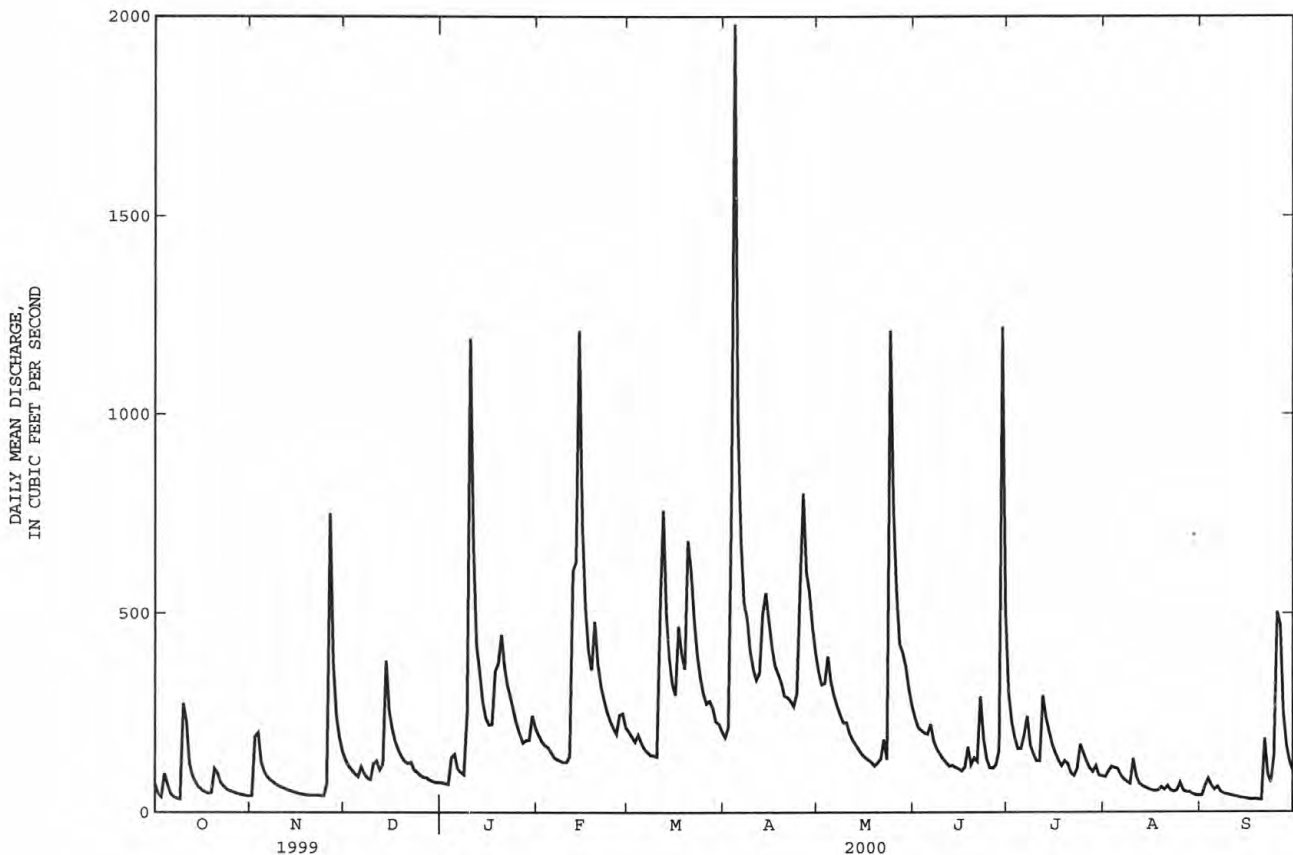
03497300 LITTLE RIVER ABOVE TOWNSEND, TN--Continued
(Hydrologic bench-mark station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	125	207	337	415	451	520	393	283	226	196	168	116
MAX	373	436	725	796	857	1195	818	774	648	815	530	492
(WY)	1973	1967	1992	1996	1990	1994	1998	1984	1989	1971	1966	1989
MIN	28.9	36.0	58.8	72.7	191	185	141	124	50.4	63.8	40.5	31.9
(WY)	1988	1988	1966	1981	1978	1988	1995	1986	1988	1993	1987	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	87673		77718			
ANNUAL MEAN	240		212		286	
HIGHEST ANNUAL MEAN					460	
LOWEST ANNUAL MEAN					141	
HIGHEST DAILY MEAN	1900		May 6		9000	
LOWEST DAILY MEAN	23		Sep 26		22	
ANNUAL SEVEN-DAY MINIMUM	25		Sep 15		23	
INSTANTANEOUS PEAK FLOW			3660		27100	
INSTANTANEOUS PEAK STAGE			6.01		a15.75	
INSTANTANEOUS LOW FLOW			30		b21	
ANNUAL RUNOFF (CFSM)	2.27		2.00		2.70	
ANNUAL RUNOFF (INCHES)	30.77		27.27		36.65	
10 PERCENT EXCEEDS	548		466		561	
50 PERCENT EXCEEDS	162		140		196	
90 PERCENT EXCEEDS	42		47		60	

a From flood marks in gage house.
b Results of freeze-up.



TENNESSEE RIVER BASIN

03498500 LITTLE RIVER NEAR MARYVILLE, TN

LOCATION.--Lat 35°47'10", long 83°53'04", Blount County, Hydrologic Unit 06010201, on left bank 200 ft above bridge on U.S. Highway 411, 0.8 mi downstream from Crooked Creek, 5.0 mi east of Maryville, and at mile 17.3.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Data-collection platform and crest-stage gage. Datum of gage is 850.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuations of flow caused by small mills above station. The town of Maryville diverted an average of about 4.0 ft³/s (2.6 MGD) for municipal supply 100 ft upstream from gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water- quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1875, reached a stage of 31 ft, discharge, 50,000 ft³/s, and flood of April 1, 1896, reached a stage of 26 ft, discharge, 36,000 ft³/s, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0445	*9,610	*14.61	May 24	1445	7,050	13.03

Minimum discharge, 51 ft³/s, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	86	182	119	346	337	343	609	414	505	142	69
2	90	160	166	116	303	315	344	552	374	356	150	73
3	76	331	155	112	277	292	2240	500	350	288	177	109
4	126	195	146	134	263	311	6740	646	358	248	153	104
5	150	162	139	233	247	309	2480	542	331	234	158	95
6	93	146	147	165	225	268	1410	466	413	273	141	88
7	79	136	152	149	211	250	984	422	330	328	129	84
8	73	128	133	143	202	237	864	391	289	251	121	76
9	71	122	127	284	196	231	750	368	261	215	113	73
10	186	116	140	2260	193	229	649	357	242	192	167	71
11	400	112	202	1170	196	733	592	337	228	198	166	68
12	205	107	161	647	1150	1470	586	306	214	732	124	66
13	156	104	153	541	1170	856	858	288	206	389	112	63
14	136	100	479	434	2300	655	1110	271	240	359	105	61
15	121	97	367	360	1290	539	905	252	210	280	99	59
16	111	93	285	319	845	469	760	240	219	237	94	56
17	104	91	239	311	655	723	669	233	205	207	90	55
18	96	88	211	467	564	625	610	227	271	187	87	55
19	97	88	192	562	781	557	559	216	237	177	92	55
20	123	87	177	717	635	820	500	243	218	194	91	53
21	173	87	169	605	527	828	526	268	247	162	98	115
22	135	86	176	492	461	684	477	325	537	151	95	167
23	121	86	161	438	412	582	443	252	406	146	86	107
24	113	84	150	398	377	503	519	3420	272	203	86	154
25	105	96	145	355	348	443	1340	1720	225	210	93	602
26	101	827	134	312	319	415	1440	1060	200	180	98	697
27	98	560	134	264	356	464	1060	775	207	162	85	331
28	95	344	129	249	447	529	947	823	197	148	83	222
29	92	258	124	258	362	416	802	753	1890	160	78	170
30	89	211	120	440	---	408	690	595	960	165	73	143
31	87	---	119	392	---	382	---	484	---	162	70	---
TOTAL	3841	5188	5514	13446	15658	15880	32197	17941	10751	7699	3456	4141
MEAN	124	173	178	434	540	512	1073	579	358	248	111	138
MAX	400	827	479	2260	2300	1470	6740	3420	1890	732	177	697
MIN	71	84	119	112	193	229	343	216	197	146	70	53
CFSM	.46	.64	.66	1.61	2.01	1.90	3.99	2.15	1.33	.92	.41	.51
IN.	.53	.72	.76	1.86	2.17	2.20	4.45	2.48	1.49	1.06	.48	.57

TENNESSEE RIVER BASIN

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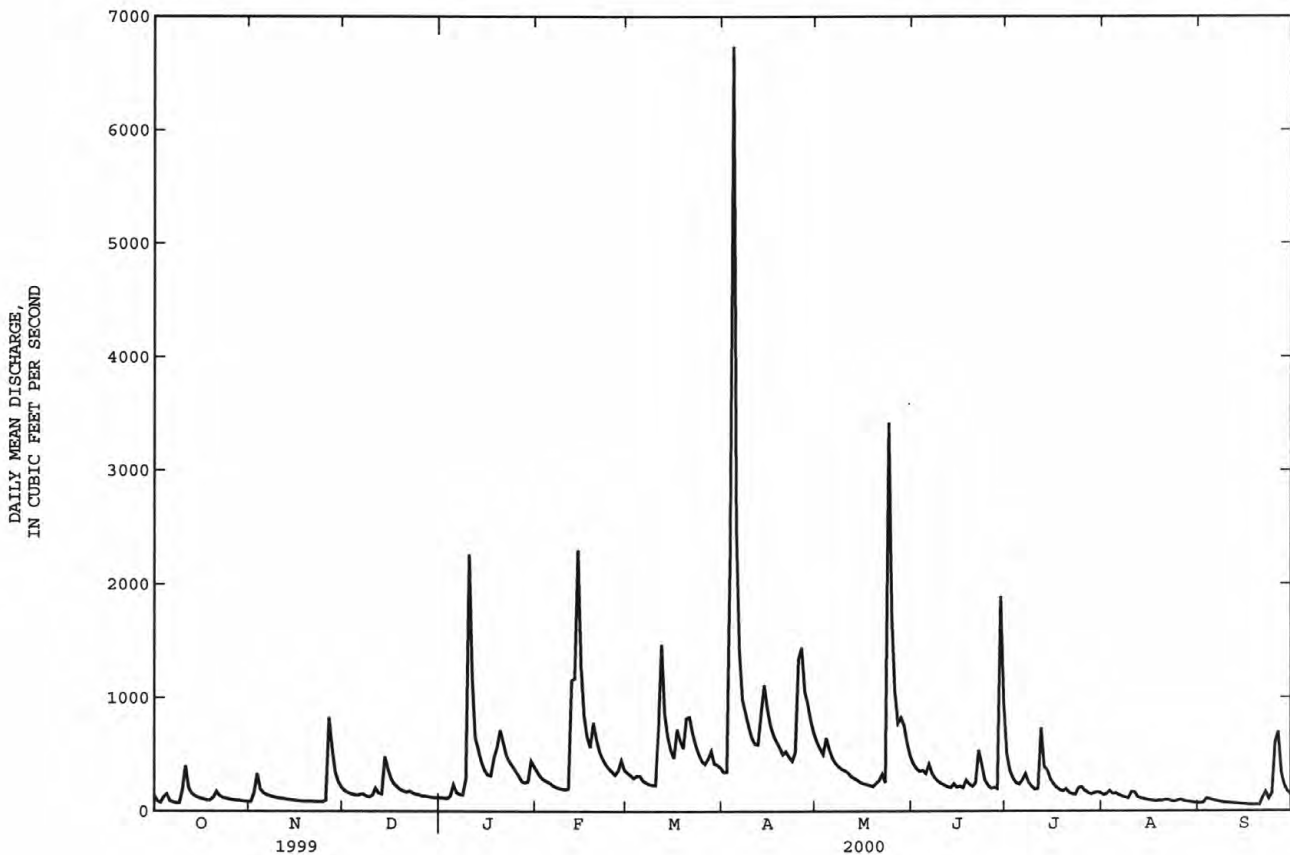
03498500 LITTLE RIVER NEAR MARYVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	198	339	618	802	942	1012	761	500	382	323	251	176
MAX	830	1160	1679	1792	2254	2517	1701	1782	1261	1391	867	1019
(WY)	1973	1958	1962	1974	1957	1994	1994	1984	1989	1971	1971	1989
MIN	50.7	65.4	103	121	308	385	224	208	86.1	100	78.1	55.6
(WY)	1988	1988	1966	1981	1954	1988	1986	1986	1988	1952	1987	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1951 - 2000
ANNUAL TOTAL	160561	135712	
ANNUAL MEAN	440	371	524
HIGHEST ANNUAL MEAN			862
LOWEST ANNUAL MEAN			220
HIGHEST DAILY MEAN	4540	May 6	23100
LOWEST DAILY MEAN	47	Sep 27	43
ANNUAL SEVEN-DAY MINIMUM	50	Sep 15	45
INSTANTANEOUS PEAK FLOW		9610	a42100
INSTANTANEOUS PEAK STAGE		14.61	27.95
INSTANTANEOUS LOW FLOW		51	32
ANNUAL RUNOFF (CFSM)	1.64	1.38	1.95
ANNUAL RUNOFF (INCHES)	22.20	18.77	26.44
10 PERCENT EXCEEDS	968	751	1040
50 PERCENT EXCEEDS	276	228	316
90 PERCENT EXCEEDS	84	88	100

a From rating curve extended above 14,800 ft³/s on the basis of a contracted opening measurement and road overflow computations.



TENNESSEE RIVER BASIN

03498850 LITTLE RIVER NEAR ALCOA, TN

LOCATION.--Lat 35°48'32", long 83°55'36", Blount County, Hydrologic Unit 06010201, at Singleton Bend on left bank, 3.0 mi northeast of Alcoa, and at mile 9.7.

DRAINAGE AREA.--300 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 814.22 ft above sea level.

REMARKS.--Records good. Diurnal fluctuations at low flow caused by small mills above station. The town of Maryville diverts an average of about 4.0 ft³/s (2.6 MGD) for municipal supply 7.6 mi upstream from gage and the town of Alcoa at the gage diverts about 17.2 ft³/s (11.1 MGD). Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 8,020, April 4, gage height 12.79 ft; minimum 40 ft³/s, Sept. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	76	205	129	e420	363	354	606	468	561	155	65
2	111	111	182	121	e360	339	350	558	407	403	152	68
3	88	383	166	102	286	307	2070	537	367	309	185	104
4	112	232	159	141	276	318	6380	707	377	255	163	108
5	191	183	145	244	262	348	2650	586	359	233	166	96
6	100	164	133	188	231	300	1390	500	416	273	155	85
7	89	142	174	160	219	256	994	452	345	346	141	85
8	82	132	131	148	208	230	871	422	288	268	130	e75
9	71	125	131	254	185	243	771	400	257	225	116	e65
10	136	121	149	2030	180	231	657	371	240	204	151	e55
11	479	112	217	1290	170	611	599	357	227	192	188	49
12	245	96	183	688	889	1380	583	293	213	745	125	58
13	159	114	162	568	1240	866	775	279	200	469	103	55
14	141	102	455	504	2150	658	1090	263	227	409	111	52
15	125	89	436	414	1350	560	898	241	208	294	99	49
16	102	93	322	335	862	512	754	225	211	239	94	e45
17	102	92	279	330	663	730	650	224	197	223	89	e44
18	96	90	257	433	584	653	601	217	252	199	86	e44
19	94	89	233	604	788	581	575	207	228	189	86	42
20	108	90	192	698	679	751	541	232	205	205	92	42
21	183	85	163	631	565	820	576	244	233	177	92	64
22	127	75	198	523	514	691	509	299	485	165	84	199
23	123	104	196	487	466	601	477	e235	462	158	86	116
24	109	73	168	463	424	537	515	e3040	263	200	92	151
25	101	93	138	403	384	495	1250	1930	209	216	103	505
26	96	660	130	334	355	471	1390	1080	184	191	104	790
27	92	619	146	272	353	464	1020	788	185	173	74	412
28	91	396	127	276	493	584	906	843	199	158	70	254
29	89	303	129	276	396	467	785	781	1620	164	76	184
30	86	241	113	448	---	453	677	639	993	175	72	160
31	83	---	116	442	---	429	---	539	---	185	67	---
TOTAL	3998	5285	5935	13936	15952	16249	31658	18095	10525	8203	3507	4121
MEAN	129	176	191	450	550	524	1055	584	351	265	113	137
MAX	479	660	455	2030	2150	1380	6380	3040	1620	745	188	790
MIN	71	73	113	102	170	230	350	207	184	158	67	42

TENNESSEE RIVER BASIN

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03498850 LITTLE RIVER NEAR ALCOA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	189	308	618	897	997	1107	808	547	492	336	227	207
MAX	779	783	1624	1410	1980	2764	2008	989	1335	782	586	1123
(WY)	1990	1990	1992	1996	1994	1994	1994	1989	1989	1999	1994	1989
MIN	43.4	60.6	176	432	435	403	295	199	73.6	106	69.0	59.8
(WY)	1988	1988	1988	1988	1988	1988	1995	1988	1988	1988	1987	1998

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

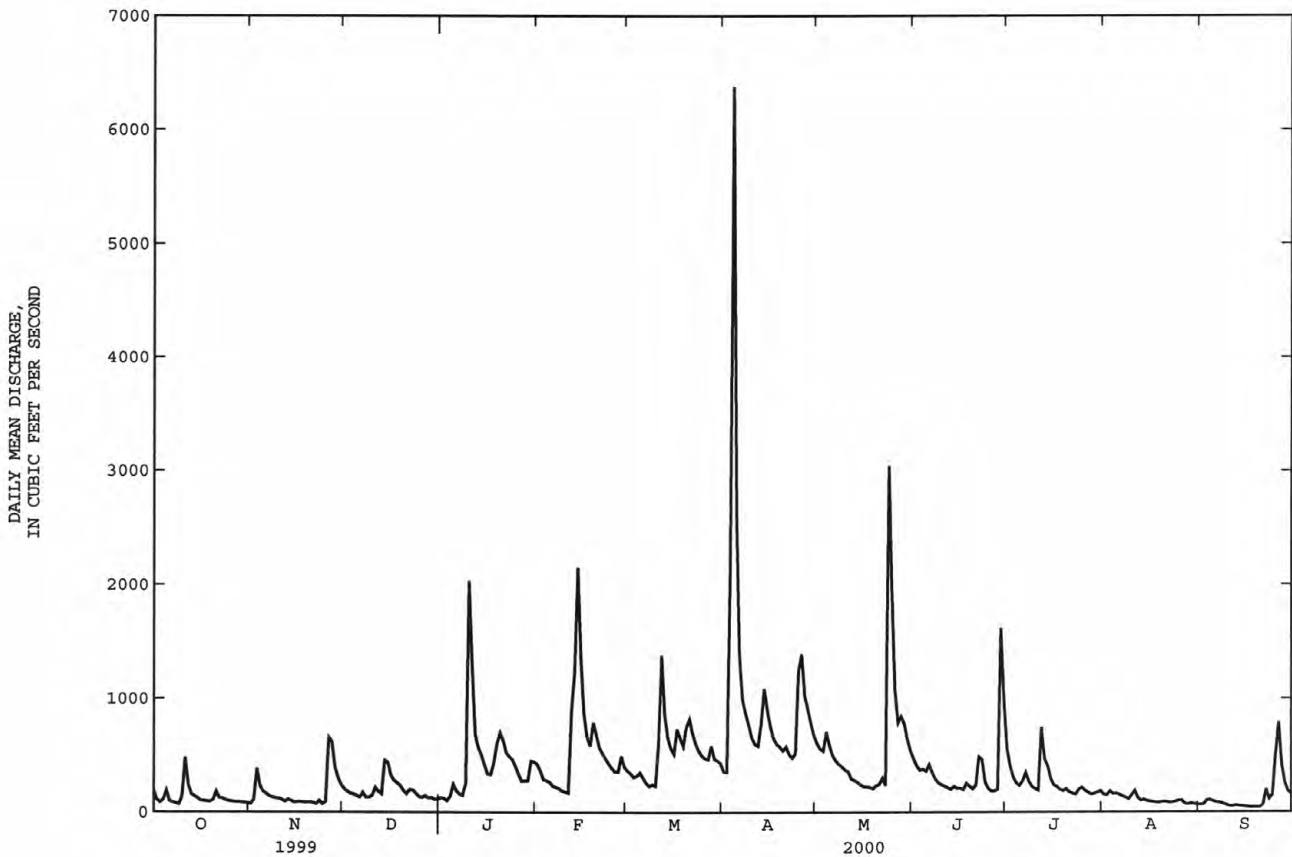
WATER YEARS 1987 - 2000

ANNUAL TOTAL	169510	137464	
ANNUAL MEAN	464	376	
HIGHEST ANNUAL MEAN			559
LOWEST ANNUAL MEAN			953
HIGHEST DAILY MEAN	4080	Jul 12	6380
LOWEST DAILY MEAN	40	Sep 17	a42
ANNUAL SEVEN-DAY MINIMUM	46	Sep 15	45
INSTANTANEOUS PEAK FLOW			8020
INSTANTANEOUS PEAK STAGE			12.79
INSTANTANEOUS LOW FLOW			b40
10 PERCENT EXCEEDS	972		752
50 PERCENT EXCEEDS	308		231
90 PERCENT EXCEEDS	85		89

a Also occurred Sept. 20.

b Also occurred Sept. 20.

e Estimated



TENNESSEE RIVER BASIN

03528000 CLINCH RIVER ABOVE TAZEWEILL, TN

LOCATION.--Lat 36°25'30", long 83°23'54", Claiborne County, Hydrologic Unit 06010205, on right bank 0.4 mi upstream from Grissom Island, 4.6 mi downstream from Big War Creek, 10 mi east of Tazewell, and at mile 159.8.

DRAINAGE AREA.--1,474 mi².

PERIOD OF RECORD.--October 1918 to current year. Published as "near Lone Mountain" October 1918 to September 1927; as "near Tazewell" August 1927 to December 1936; and as "above Tazewell" July 1935 to current year. Prior to April 1919, monthly discharge only, published in WSP 1306. Gage-height record "near Tazewell" January 1937 to July 1941.

REVISED RECORDS.--WSP 803: Drainage area at site "near Tazewell". WSP 1306: Drainage area at site "near Lone Mountain". WSP 1336: 1928.

GAGE.--Data collection platform. Datum of gage is 1,060.7 ft above sea level. April 1, 1919, to Sept. 30, 1927, nonrecording gage on railroad bridge 23.3 mi downstream at datum 102.7 ft lower. Aug. 8, 1927, to July 16, 1941, water-stage recorder at site 8.0 mi downstream at datum 47.2 ft lower. Water-stage recorder at present site and datum since July 29, 1935.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1862 reached a stage of about 24 ft, present site and datum, from information by local resident, discharge, about 66,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 5	0930	*11,200	*8.34				

Minimum discharge, 126 ft³/s, Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	135	668	292	1000	1870	1450	2130	749	1210	748	347
2	135	142	522	281	901	1630	1320	1810	644	1010	605	749
3	138	150	435	279	808	1430	1560	1610	559	730	587	535
4	201	161	377	304	771	1270	6860	1430	513	555	602	447
5	194	165	343	339	751	1130	10500	1280	487	464	809	500
6	171	205	342	368	749	1020	7120	1160	444	1240	952	450
7	153	283	333	420	722	925	4520	1070	486	4110	873	482
8	138	236	313	411	690	841	3380	1040	486	2680	710	428
9	131	216	294	416	707	775	2980	974	468	1570	577	373
10	151	196	306	846	836	740	2740	922	442	1100	912	336
11	177	180	352	1980	1120	1010	2450	841	399	853	2390	310
12	180	170	381	2210	1890	3290	2350	772	362	755	2370	286
13	173	171	435	1840	3620	4520	2370	719	334	1230	1600	270
14	173	166	838	1430	5030	3880	2340	662	312	1810	1130	258
15	171	158	1340	1130	6060	2830	2250	616	292	2600	875	299
16	171	159	1520	929	5070	2220	2110	580	286	2310	720	304
17	165	170	1270	796	3390	1960	2010	548	288	1630	611	256
18	157	160	948	865	2680	2100	2570	519	286	1200	550	232
19	152	154	740	1040	3410	2210	2640	502	318	948	479	220
20	155	152	614	1050	4190	2250	3090	529	321	798	435	216
21	161	148	536	1030	4230	3880	2970	536	314	689	416	221
22	161	144	488	927	3140	6370	2570	581	327	609	404	216
23	155	141	443	793	2420	4500	2320	624	318	562	398	219
24	154	140	416	700	1940	3290	2140	1410	334	683	422	219
25	153	157	393	713	1620	2620	2790	1160	356	629	866	246
26	155	400	367	681	1390	2200	4010	1060	353	563	609	270
27	152	1980	338	598	1260	2060	4460	1070	376	568	568	282
28	146	2830	327	479	1410	1980	3790	940	432	523	538	661
29	142	1540	313	529	1890	1890	3120	1060	536	475	464	682
30	141	942	302	696	---	1770	2570	928	1190	518	438	500
31	138	---	301	912	---	1610	---	831	---	652	377	---
TOTAL	4883	11951	16595	25284	63695	70071	97350	29914	13012	35274	24035	10814
MEAN	158	398	535	816	2196	2260	3245	965	434	1138	775	360
MAX	201	2830	1520	2210	6060	6370	10500	2130	1190	4110	2390	749
MIN	131	135	294	279	690	740	1320	502	286	464	377	216
MED	155	166	393	713	1620	1980	2600	928	369	798	605	302
CFSM	.11	.27	.36	.55	1.49	1.53	2.20	.65	.29	.77	.53	.24
IN.	.12	.30	.42	.64	1.61	1.77	2.46	.75	.33	.89	.61	.27

TENNESSEE RIVER BASIN

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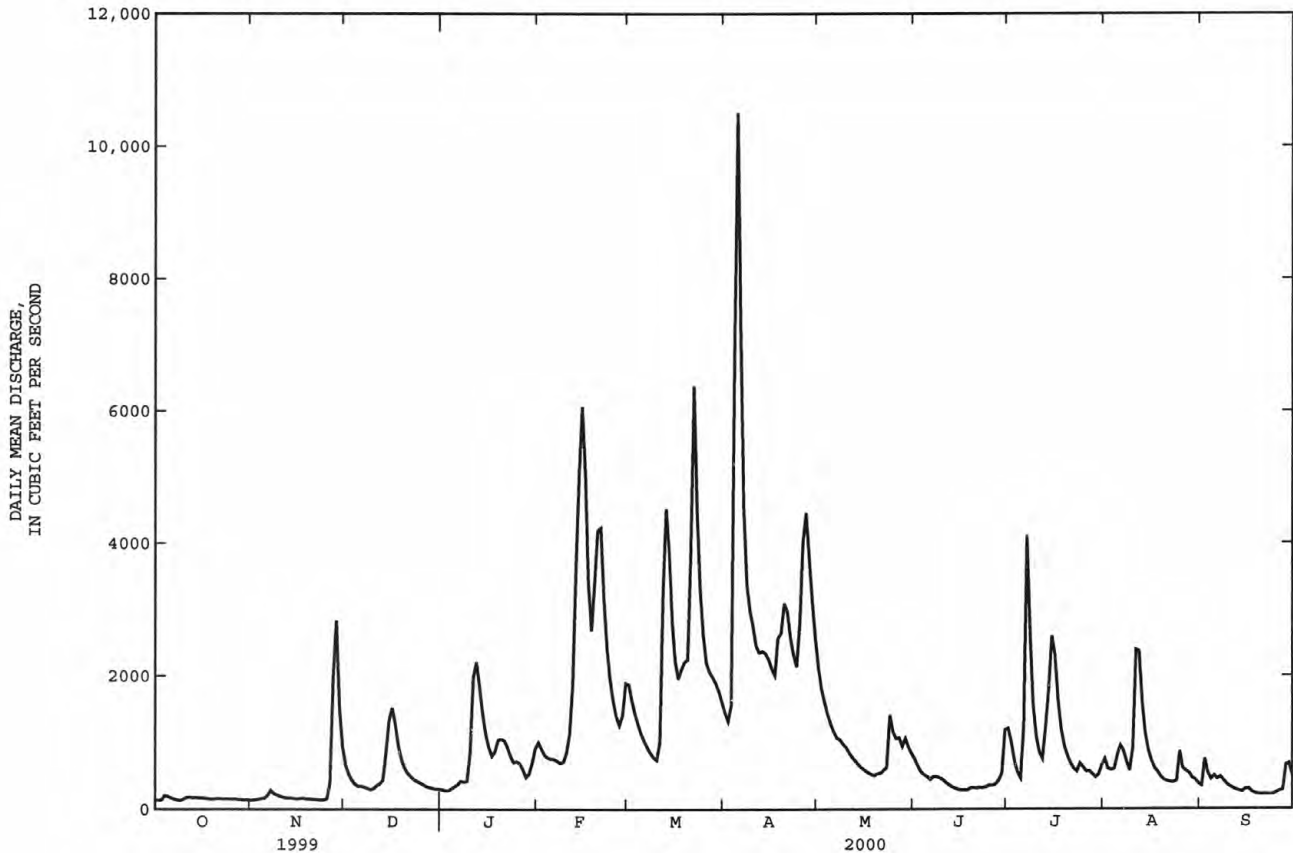
03528000 CLINCH RIVER ABOVE TAZEWEILL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	652	1097	2324	3452	4117	4287	3095	2295	1281	955	859	527
MAX	2871	4794	9107	9500	9426	11950	8860	6382	3865	3251	4411	2939
(WY)	1990	1978	1927	1937	1957	1963	1977	1929	1989	1938	1942	1989
MIN	145	159	217	285	572	990	711	547	301	239	169	136
(WY)	1964	1940	1940	1940	1941	1988	1986	1941	1988	1988	1925	1955

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1919 - 2000	
ANNUAL TOTAL	436606		402878			
ANNUAL MEAN	1196		1101		2070	
HIGHEST ANNUAL MEAN					3269	
LOWEST ANNUAL MEAN					850	
HIGHEST DAILY MEAN	9900		10500		83300	
LOWEST DAILY MEAN	111		131		108	
ANNUAL SEVEN-DAY MINIMUM	117		142		116	
INSTANTANEOUS PEAK FLOW			11200		98100	
INSTANTANEOUS PEAK STAGE			8.34		a29.32	
INSTANTANEOUS LOW FLOW			126		108	
ANNUAL RUNOFF (CFSM)	.81		.75		1.40	
ANNUAL RUNOFF (INCHES)	11.02		10.17		19.08	
10 PERCENT EXCEEDS	2980		2630		4640	
50 PERCENT EXCEEDS	554		626		1100	
90 PERCENT EXCEEDS	153		165		267	

a From floodmarks.



TENNESSEE RIVER BASIN

03532000 POWELL RIVER NEAR ARTHUR, TN

LOCATION.--Lat 36°32'30", long 83°37'49", Claiborne County, Hydrologic Unit 06010206, on left bank, 500 ft upstream from bridge on U.S. Highway 25E, 2.3 mi east of Arthur, 2.4 mi downstream from Indian Creek, and at mile 65.4.

DRAINAGE AREA.--685 mi².

PERIOD OF RECORD.--October 1919 to February 1982, October 1996 to current year. Gage-height records collected at same site December 1892 to August 1893, September 1904 to March 1925 are in reports of U.S. Weather Bureau (published as "near Tazewell").

REVISED RECORDS.--WSP 1336: 1920, 1921(M), 1923.

GAGE.--Water-stage recorder. Datum of gage is 1,043.84 ft above sea level, Tennessee River Survey datum. Prior to July 23, 1927, nonrecording gage, and July 23, 1927, to Sept. 30, 1970, water-stage recorder, at same site at datum 2.00 ft higher.

REMARKS.--Records good, except of Sept. 1-30, which are poor. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1826 reached a stage of 29.5 ft present datum, discharge, 34,000 ft³/s, and flood of Jan. 29, 1918, reached a stage of 29.2 ft present datum, discharge, 33,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 5	1145	*8,760	*13.25	No peak greater than base discharge.			

Minimum discharge, 77 ft³/s, Sept. 19, 20

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	121	322	168	1040	731	650	1130	514	652	405	204
2	151	136	261	159	872	680	603	977	423	435	376	185
3	193	143	223	157	727	642	1610	886	368	318	400	211
4	169	136	201	246	651	589	6580	815	328	258	389	202
5	138	132	186	440	620	543	8040	759	297	222	362	173
6	118	136	187	462	604	504	4780	709	276	216	312	202
7	109	152	191	529	563	440	3010	649	257	207	278	169
8	104	159	199	426	519	401	2230	600	255	322	256	151
9	125	152	205	388	500	374	1860	554	250	311	234	139
10	159	138	223	652	512	363	1730	520	227	250	233	133
11	192	129	266	1000	561	644	1550	480	207	217	233	125
12	193	126	290	1160	651	1130	1580	445	193	213	267	121
13	262	124	330	909	1030	1980	1760	415	182	240	346	118
14	237	123	656	757	2730	1750	1760	384	170	430	253	115
15	189	122	1170	715	3470	1280	1670	355	160	1000	210	105
16	160	122	1230	609	2720	1020	1500	335	156	1100	196	103
17	141	127	748	529	1730	911	1340	315	164	916	171	97
18	129	125	546	653	1620	890	1200	300	164	641	162	95
19	130	121	422	848	2180	1010	1110	288	182	475	187	85
20	144	117	351	939	2430	1000	1010	296	211	385	153	86
21	141	116	308	914	2040	1220	1070	321	265	339	145	93
22	137	118	282	815	1590	1760	1180	465	222	304	136	94
23	132	118	257	695	1280	1610	1130	374	200	265	135	94
24	135	119	240	592	1060	1310	1040	598	235	243	155	95
25	141	181	224	574	882	1080	1710	894	307	232	623	126
26	135	396	206	526	765	929	2430	870	279	231	850	130
27	128	786	194	463	717	840	2340	1010	258	248	557	124
28	128	1040	181	416	725	812	2050	817	320	227	404	194
29	131	630	170	361	766	816	1690	740	573	209	375	198
30	127	428	175	513	---	765	1380	763	913	483	300	145
31	123	---	172	771	---	692	---	636	---	464	240	---
TOTAL	4637	6573	10616	18386	35555	28716	61593	18700	8556	12053	9343	4112
MEAN	150	219	342	593	1226	926	2053	603	285	389	301	137
MAX	262	1040	1230	1160	3470	1980	8040	1130	913	1100	850	211
MIN	104	116	170	157	500	363	603	288	156	207	135	85
CFSM	.22	.32	.50	.87	1.79	1.35	3.00	.88	.42	.57	.44	.20
IN.	.25	.36	.58	1.00	1.93	1.56	3.34	1.02	.46	.65	.51	.22

TENNESSEE RIVER BASIN

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03532000 POWELL RIVER NEAR ARTHUR, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	320	665	1332	2002	2183	2397	1729	1131	672	553	452	248
MAX	1648	3045	5557	5812	4887	6596	5224	4220	2495	1917	2030	1081
(WY)	1978	1974	1927	1937	1956	1963	1977	1929	1928	1941	1942	1928
MIN	75.5	96.4	117	143	268	887	477	268	168	137	117	79.7
(WY)	1955	1940	1966	1940	1941	1931	1942	1941	1936	1944	1925	1955

SUMMARY STATISTICS

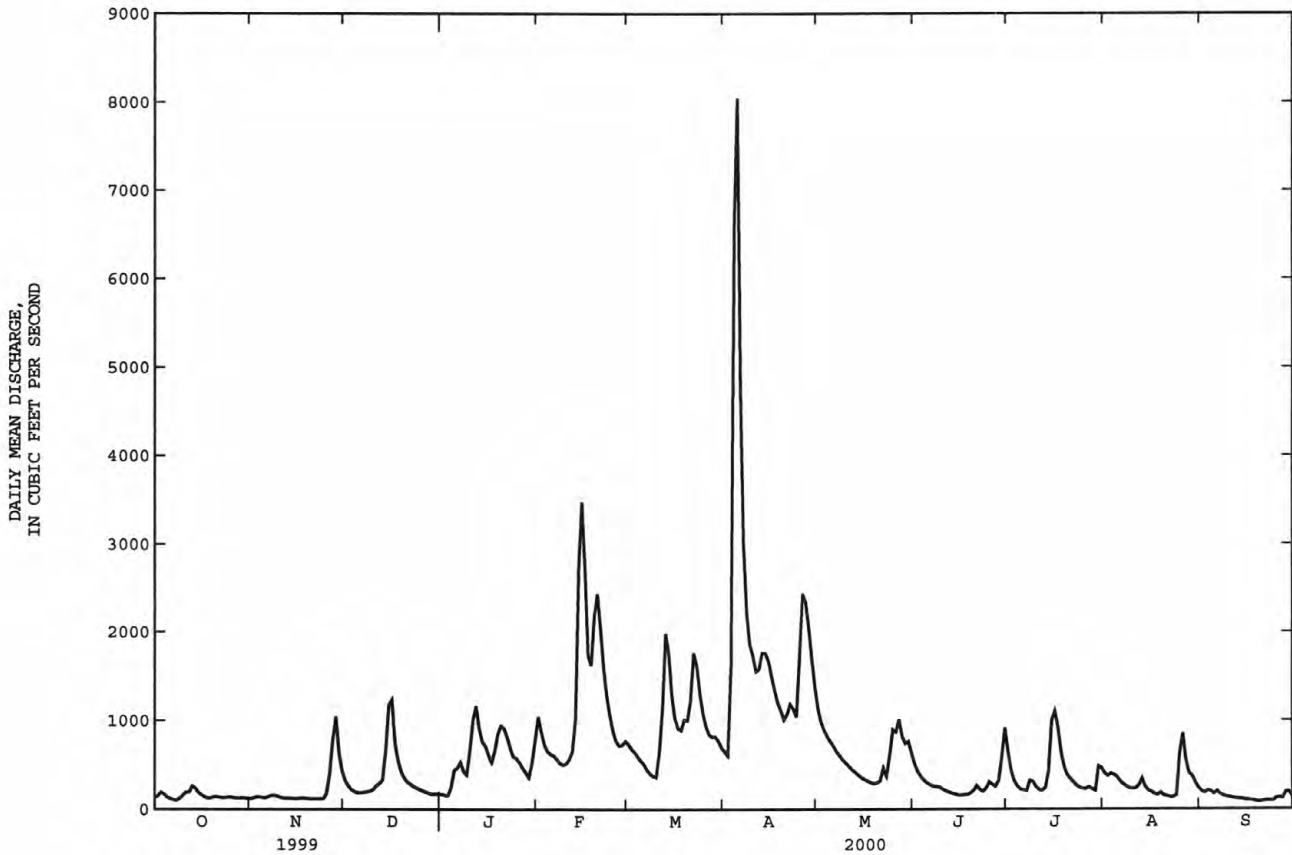
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1920 - 2000

ANNUAL TOTAL	259083	218840	
ANNUAL MEAN	710	598	1133
HIGHEST ANNUAL MEAN			1858
LOWEST ANNUAL MEAN			486
HIGHEST DAILY MEAN	4920	Mar 4	8040
LOWEST DAILY MEAN	75	Sep 19	85
ANNUAL SEVEN-DAY MINIMUM	79	Sep 15	92
INSTANTANEOUS PEAK FLOW			8760
INSTANTANEOUS PEAK STAGE			13.25
INSTANTANEOUS LOW FLOW			a77
ANNUAL RUNOFF (CFSM)	1.04	.87	1.65
ANNUAL RUNOFF (INCHES)	14.07	11.88	22.48
10 PERCENT EXCEEDS	1690	1280	2550
50 PERCENT EXCEEDS	345	332	586
90 PERCENT EXCEEDS	119	128	137

a Also occurred on Sept. 20.



TENNESSEE RIVER BASIN

03535400 BEAVER CREEK AT SOLWAY, TN

LOCATION.--Lat 35°57'51", long 84°01'41", Knox County, Hydrologic Unit 06010207, at bridge on Solway Road, 1.1 mi southwest of Solway and 5.9 mi southeast of Oak Ridge.

DRAINAGE AREA.--86.8 mi².

PERIOD OF RECORD.--August 1961 to September 1964, low-flow partial-record site, August 1998 to April 1999, flood crest-stage partial-record site, April 1999 to September 2000.

GAGE.--Data logger.

REMARKS.--Records good except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--April 1999 to September 2000. Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Water Year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
1999	May 7	2300	1,020	8.51	2000	Apr 4	0030	1,250	9.08
	Jun 29	1430	*1,920	*10.59		Apr 5	0945	1,260	9.11
	Jun 30	0230	1,110	8.74		Apr 5	1900	1,090	8.68
	Jul 2	1330	1,170	8.88		May 24	1030	*1,530	*9.76
	Jul 12	1200	1,440	9.58					

Minimum discharge, 16 ft³/s, Sept. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR APRIL 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e145	124	47	637	50	31
2	---	---	---	---	---	---	e138	101	47	550	46	31
3	---	---	---	---	---	---	133	83	55	326	45	30
4	---	---	---	---	---	---	121	76	56	223	43	29
5	---	---	---	---	---	---	113	83	49	163	43	28
6	---	---	---	---	---	---	111	695	46	138	42	27
7	---	---	---	---	---	---	108	790	48	120	41	27
8	---	---	---	---	---	---	111	687	42	101	43	27
9	---	---	---	---	---	---	114	386	41	87	42	27
10	---	---	---	---	---	---	101	237	40	148	41	26
11	---	---	---	---	---	---	91	183	39	136	40	24
12	---	---	---	---	---	---	92	155	36	912	39	24
13	---	---	---	---	---	---	87	141	36	854	37	24
14	---	---	---	---	---	---	81	147	35	622	36	24
15	---	---	---	---	---	---	91	120	35	261	35	22
16	---	---	---	---	---	---	103	105	36	185	34	21
17	---	---	---	---	---	---	90	94	35	150	34	21
18	---	---	---	---	---	---	79	86	32	128	33	22
19	---	---	---	---	---	---	73	105	32	112	32	22
20	---	---	---	---	---	---	66	107	30	213	31	23
21	---	---	---	---	---	---	68	79	30	123	32	25
22	---	---	---	---	---	---	64	71	29	103	32	27
23	---	---	---	---	---	---	60	70	28	93	32	e25
24	---	---	---	---	---	---	58	86	32	87	33	e25
25	---	---	---	---	---	---	58	73	325	125	71	e24
26	---	---	---	---	---	---	55	61	449	104	104	24
27	---	---	---	---	---	---	65	60	312	83	51	24
28	---	---	---	---	---	---	69	56	323	80	39	24
29	---	---	---	---	---	---	205	53	1360	70	36	29
30	---	---	---	---	---	---	184	50	918	59	33	e32
31	---	---	---	---	---	---	---	48	---	54	32	---
TOTAL	---	---	---	---	---	---	2934	5212	4623	7047	1282	769
MEAN	---	---	---	---	---	---	97.8	168	154	227	41.4	25.6
MAX	---	---	---	---	---	---	205	790	1360	912	104	32
MIN	---	---	---	---	---	---	55	48	28	54	31	21
CFSM	---	---	---	---	---	---	1.13	1.94	1.78	2.62	.48	.30
IN.	---	---	---	---	---	---	1.26	2.23	1.98	3.02	.55	.33

TENNESSEE RIVER BASIN

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03535400 BEAVER CREEK AT SOLWAY, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e30	e25	30	27	106	88	112	81	88	52	38	21
2	e26	e40	29	27	87	79	109	73	83	46	33	26
3	e25	e140	29	28	75	68	405	85	256	43	31	34
4	26	e55	29	116	68	108	1110	89	212	40	30	28
5	26	e35	29	136	61	142	1140	118	129	38	28	25
6	e24	e30	33	66	56	111	632	95	154	38	27	23
7	e24	e30	36	47	52	91	334	69	117	40	27	23
8	e25	e30	33	40	49	82	257	62	91	37	27	23
9	28	e30	31	99	47	77	243	54	79	35	26	22
10	46	e30	37	339	45	74	191	53	71	34	38	21
11	49	e25	48	297	43	354	163	50	67	36	56	21
12	36	e25	41	134	92	585	192	48	61	55	32	21
13	31	e25	39	94	145	438	208	45	58	44	28	20
14	30	e25	49	79	256	230	237	42	57	48	26	19
15	e29	e25	74	64	266	173	216	39	48	52	26	18
16	e29	26	48	57	153	155	175	38	54	38	25	18
17	e28	24	40	52	119	148	151	38	56	34	24	18
18	e25	25	36	93	117	123	138	37	54	33	24	19
19	e25	24	34	144	487	110	123	36	53	32	23	18
20	e28	25	33	140	440	260	110	37	51	40	22	19
21	e29	25	33	128	217	274	102	38	47	38	23	23
22	e30	28	32	98	161	180	94	36	93	32	23	29
23	e26	26	32	87	135	143	88	50	81	31	22	25
24	e25	28	30	84	117	127	89	914	54	33	23	27
25	e25	32	31	79	107	116	156	688	46	32	23	62
26	e26	68	29	69	93	114	157	412	43	31	22	82
27	e25	67	28	61	99	123	110	202	42	29	22	44
28	e28	44	27	55	114	147	109	153	96	28	22	32
29	e26	35	27	57	99	112	115	143	117	32	22	27
30	e28	32	27	113	---	129	93	116	69	32	22	24
31	e26	---	27	132	---	140	---	102	---	40	21	---
TOTAL	884	1079	1081	3042	3906	5101	7359	4043	2527	1173	836	812
MEAN	28.5	36.0	34.9	98.1	135	165	245	130	84.2	37.8	27.0	27.1
MAX	49	140	74	339	487	585	1140	914	256	55	56	82
MIN	24	24	27	27	43	68	88	36	42	28	21	18
CFSM	.33	.41	.40	1.13	1.55	1.90	2.83	1.50	.97	.44	.31	.31
IN.	.38	.46	.46	1.30	1.67	2.19	3.15	1.73	1.08	.50	.36	.35

TENNESSEE RIVER BASIN

03535400 BEAVER CREEK AT SOLWAY, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	28.5	36.0	34.9	98.1	135	165	245	149	119	133	34.2	26.4
MAX	28.5	36.0	34.9	98.1	135	165	245	168	154	227	41.4	27.1
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	2000
MIN	28.5	36.0	34.9	98.1	135	165	245	130	84.2	37.8	27.0	25.6
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

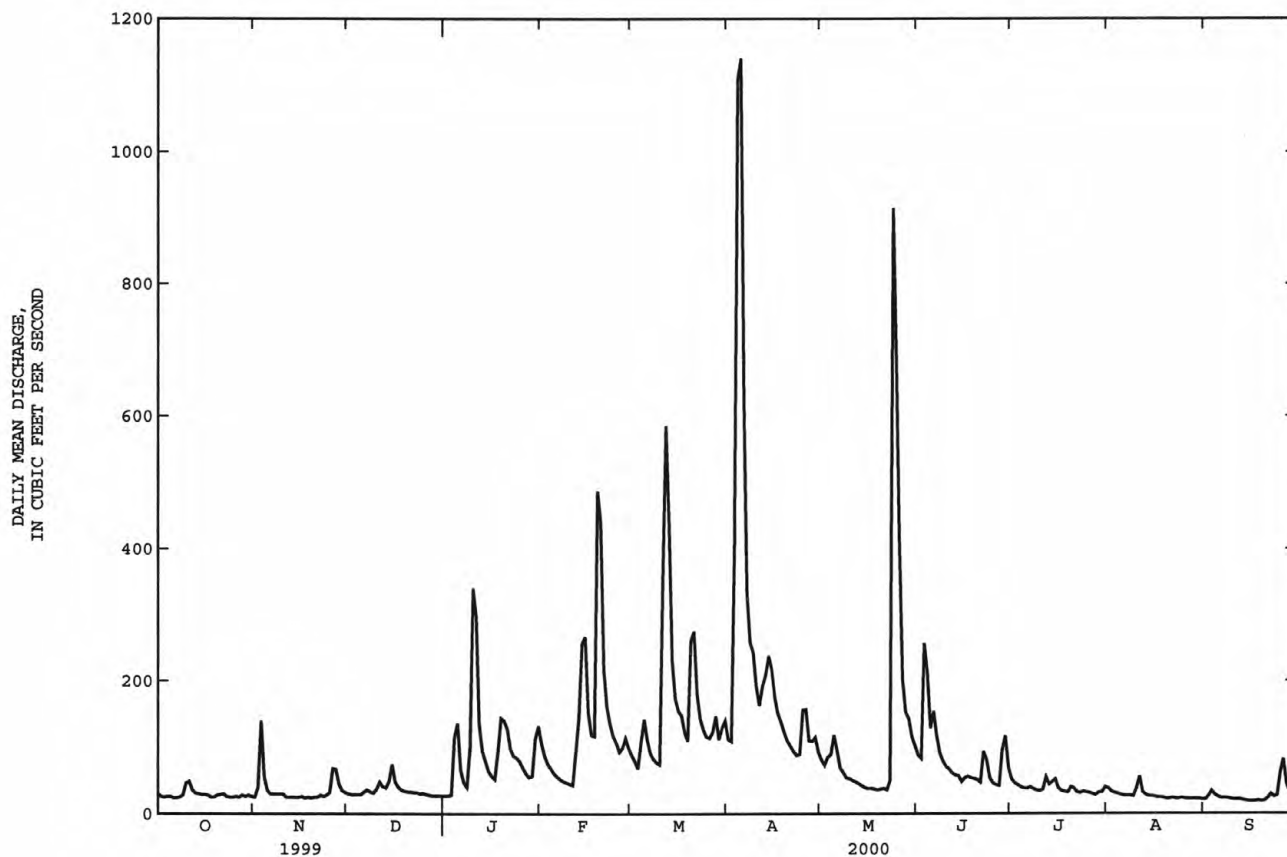
FOR 2000 WATER YEAR

WATER YEARS 1998 - 2000

ANNUAL TOTAL							31843					
ANNUAL MEAN							87.0			87.0		
HIGHEST ANNUAL MEAN										87.0		2000
LOWEST ANNUAL MEAN										87.0		2000
HIGHEST DAILY MEAN				1360	Jun 29		1140	Apr 5		1360	Jun 29	1999
LOWEST DAILY MEAN				21	Sep 16		18	Sep 15		18	Sep 15	2000
ANNUAL SEVEN-DAY MINIMUM				22	Sep 14		18	Sep 14		18	Sep 14	2000
INSTANTANEOUS PEAK FLOW							1530	May 24		1920	Jun 29	1999
INSTANTANEOUS PEAK STAGE							9.76	May 24		10.59	Jun 29	1999
INSTANTANEOUS LOW FLOW							a16	Sep 16		a16	Sep 16	2000
ANNUAL RUNOFF (CFMS)							1.00			1.00		
ANNUAL RUNOFF (INCHES)							13.65			13.62		
10 PERCENT EXCEEDS				149			158			183		
50 PERCENT EXCEEDS				39			45			48		
90 PERCENT EXCEEDS				25			24			25		

a Also occurred Sept. 17.

e Estimated



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TENNESSEE RIVER BASIN

03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN

LOCATION.--Lat 35°59'48", long 84°14'25", Anderson County, Hydrologic Unit 06010207, on left bank upstream from bridge on Bear Creek Road, 0.5 mi south of Oak Ridge, and at mile 14.4.

DRAINAGE AREA.--1.69 mi².

PERIOD OF RECORD.--December 1992 to current year.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 890 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good below 100 ft³/s, except for period of Sept. 21 to Sept. 30, which are poor. Flow affected by operations of the Department of Energy, Y-12 Plant. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 620 ft³/s, gage height, 4.94 ft, May 24; minimum, 3.8 ft³/s, gage height, 1.24 ft, Dec. 27; minimum daily, 9.5 ft³/s, Dec. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	11	11	12	12	13	12	12	12	12	12
2	12	23	11	11	12	12	16	12	12	12	12	18
3	12	12	11	11	11	12	119	17	60	12	11	12
4	13	11	11	33	11	26	35	15	17	12	11	12
5	11	11	13	12	11	13	17	12	32	13	11	12
6	11	11	12	12	11	13	15	12	17	13	11	12
7	11	11	12	11	11	12	13	12	14	12	13	12
8	11	11	11	11	11	12	15	12	13	12	11	11
9	17	11	11	22	11	12	12	12	13	12	11	10
10	20	11	14	24	11	29	12	12	13	13	24	10
11	12	11	12	13	11	47	14	11	13	18	12	10
12	12	11	11	12	20	16	14	11	13	15	9.7	10
13	12	11	16	14	18	14	16	11	13	13	12	11
14	11	11	13	12	23	13	14	11	13	12	12	11
15	11	11	11	11	13	13	13	11	13	12	12	11
16	11	11	11	11	12	13	13	11	13	12	12	10
17	11	11	11	11	13	13	13	12	13	12	12	10
18	11	11	11	19	17	12	12	11	13	11	12	11
19	11	11	11	14	28	14	12	17	13	12	12	11
20	12	11	11	14	13	27	12	13	13	11	12	14
21	11	12	12	12	13	14	12	12	13	11	12	10
22	11	11	11	12	12	13	12	12	24	11	12	11
23	11	11	11	13	12	13	12	16	13	11	12	13
24	11	12	11	12	12	13	16	87	13	13	12	13
25	11	23	11	12	12	13	18	39	12	12	12	19
26	11	15	11	11	12	13	13	16	12	12	12	12
27	11	12	9.5	11	17	18	12	14	12	12	13	10
28	11	11	10	11	12	13	14	13	46	19	12	10
29	11	11	10	14	12	14	12	13	17	19	12	10
30	11	11	10	13	---	17	12	12	13	12	12	10
31	11	---	11	12	---	13	---	12	---	16	12	---
TOTAL	365	362	352.5	422	394	489	533	493	508	399	377.7	348
MEAN	11.8	12.1	11.4	13.6	13.6	15.8	17.8	15.9	16.9	12.9	12.2	11.6
MAX	20	23	16	33	28	47	119	87	60	19	24	19
MIN	11	11	9.5	11	11	12	12	11	12	11	9.7	10

03538235 EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN--Continued

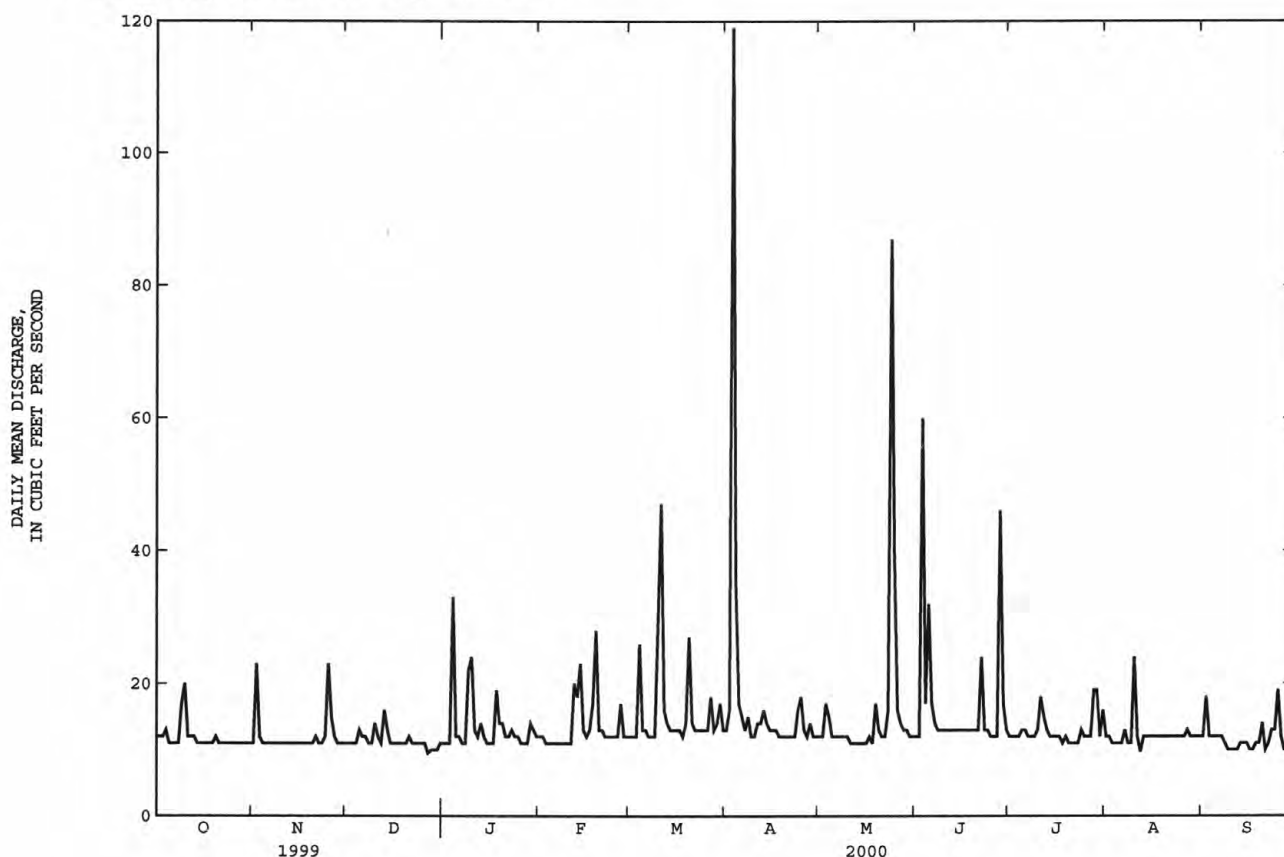
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	8.79	10.1	10.6	12.3	12.2	12.8	13.1	11.1	11.7	11.9	10.3	9.58
MAX	11.9	14.5	15.0	17.4	18.1	16.7	23.8	15.9	17.5	20.8	15.5	12.4
(WY)	1998	1997	1999	1999	1994	1997	1998	2000	1998	1999	1996	1996
MIN	5.47	6.47	5.82	7.56	7.42	7.37	4.87	6.04	4.53	4.14	5.03	5.28
(WY)	1995	1995	1995	1993	1995	1995	1995	1994	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	5072.5		5043.2			
ANNUAL MEAN	13.9		13.8		11.7	
HIGHEST ANNUAL MEAN					14.1	
LOWEST ANNUAL MEAN					6.30	
HIGHEST DAILY MEAN	110	Jul 12	119	Apr 3	163	Dec 4 1993
LOWEST DAILY MEAN	9.0	May 14	9.5	Dec 27	3.3	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	10	Sep 14	10	Dec 24	3.6	Oct 16 1995
INSTANTANEOUS PEAK FLOW			620	May 24	a2000	Jul 23 1997
INSTANTANEOUS PEAK STAGE			4.94	May 24	b14.36	Jul 23 1997
INSTANTANEOUS LOW FLOW			3.9	Dec 27	1.7	Jul 24 1997
10 PERCENT EXCEEDS	18		17		16	
50 PERCENT EXCEEDS	12		12		11	
90 PERCENT EXCEEDS	11		11		4.7	

a From area-velocity estimate at contracted section downstream.

b Affected by backwater. From high-water marks.



TENNESSEE RIVER BASIN

03538270 BEAR CREEK AT STATE HIGHWAY 95 NEAR OAK RIDGE, TN

LOCATION.--Lat 35°56'14", long 84°20'22", Roane County, Hydrologic Unit 06010207, on right bank upstream from bridge on Tennessee Highway 95, in triangle formed by intersection of Highway 95 and Bear Creek Road, 6.8 mi southwest of Oak Ridge, and at mile 2.8.

DRAINAGE AREA.--4.34 mi².

PERIOD OF RECORD.--April 1959 to June 1964 (discharge measurements only), March 1985 to current year.

REVISED RECORDS.--WDR TN-87-1: Drainage area. WDR TN-89-1: 1985-88 (M).

GAGE.--Water-stage recorder and Cippolletti-weir. Datum of gage is 801.15 ft above sea level.

REMARKS.--Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 19	0445	179	2.39	Jun 28	2030	475	3.39
Apr 3	1930	*775	*3.87				

Minimum discharge, 0.45 ft³/s, Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.80	.81	.93	.86	3.9	5.7	9.1	4.0	2.9	7.3	2.1	.62
2	.85	2.8	.86	.84	3.2	5.1	8.8	3.7	2.4	5.3	3.1	2.7
3	.62	1.7	.85	.84	2.9	4.3	228	3.6	11	3.8	4.3	2.0
4	.66	1.3	.82	14	2.6	19	137	5.0	10	3.0	3.4	1.1
5	.69	1.3	.82	4.5	2.3	14	38	4.2	56	2.6	2.8	.94
6	.65	1.5	1.1	2.6	2.0	10	22	3.7	33	2.4	2.2	.76
7	.64	1.3	1.0	2.0	1.8	8.3	15	3.5	13	2.1	2.2	.68
8	.67	1.3	.92	1.7	1.7	6.9	13	3.0	8.5	1.8	2.5	.66
9	.80	1.5	.86	8.2	1.6	5.9	10	2.7	6.1	1.6	2.3	.65
10	2.7	1.5	1.2	17	1.6	5.7	8.4	2.5	4.9	1.4	10	.62
11	2.0	1.4	1.4	7.3	1.6	53	7.4	2.3	3.7	3.8	3.8	.58
12	1.4	1.3	1.2	4.7	7.3	27	8.2	2.1	3.1	12	2.6	.57
13	1.1	1.2	1.6	5.2	6.7	17	8.9	1.9	2.7	6.7	2.0	.56
14	1.0	1.2	2.3	4.2	29	13	13	1.8	2.4	4.6	1.6	.54
15	.92	1.2	1.9	3.2	13	9.6	12	1.7	2.1	3.2	1.3	.51
16	.90	1.3	1.5	2.8	8.7	8.2	9.7	1.9	2.1	2.5	1.1	.49
17	.87	1.2	1.3	2.4	6.5	7.2	8.4	1.9	2.1	2.0	1.0	.48
18	.94	1.5	1.2	6.8	6.0	5.9	7.4	1.9	2.0	1.7	.98	.48
19	.95	1.4	1.1	5.6	53	5.6	6.4	1.9	2.1	1.6	.90	.47
20	.97	1.3	1.1	6.5	17	30	5.8	2.3	1.9	1.4	.86	.49
21	1.2	1.7	1.1	5.3	12	17	5.4	1.9	1.7	1.3	.86	.55
22	1.4	1.9	1.1	4.2	8.5	12	5.1	1.7	7.2	1.1	.85	.60
23	1.2	1.9	1.1	3.6	6.6	9.8	4.7	2.2	3.2	1.1	.82	1.1
24	.93	1.8	1.1	3.4	5.6	8.3	4.5	38	2.3	1.0	.83	2.2
25	.89	2.1	1.0	3.4	4.6	7.3	7.9	39	1.9	.88	.83	7.7
26	.90	3.0	.97	2.9	3.8	6.5	6.4	15	1.8	.83	.81	3.6
27	1.0	2.2	.95	2.4	6.8	9.7	5.5	9.8	1.8	.78	.81	2.1
28	1.1	1.9	.91	2.2	7.2	9.7	5.6	7.3	86	1.1	.82	1.5
29	1.2	1.4	.91	2.4	6.1	7.9	5.3	5.7	32	3.1	.79	1.3
30	1.0	1.1	.86	5.1	---	11	4.7	4.4	12	2.7	.71	1.1
31	.92	---	.86	4.7	---	11	---	3.5	---	2.3	.65	---
TOTAL	31.87	47.01	34.82	140.84	233.6	371.6	631.6	184.1	321.9	86.99	59.82	37.65
MEAN	1.03	1.57	1.12	4.54	8.06	12.0	21.1	5.94	10.7	2.81	1.93	1.25
MAX	2.7	3.0	2.3	17	53	53	228	39	86	12	10	7.7
MIN	.62	.81	.82	.84	1.6	4.3	4.5	1.7	1.7	.78	.65	.47
CFSM	.24	.36	.26	1.05	1.86	2.76	4.85	1.37	2.47	.65	.44	.29
IN.	.27	.40	.30	1.21	2.00	3.19	5.41	1.58	2.76	.75	.51	.32

03538270 BEAR CREEK AT STATE HIGHWAY 95 NEAR OAK RIDGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.82	4.49	10.3	13.4	15.5	14.3	11.7	6.36	5.82	3.58	2.71	1.66
MAX	10.3	13.9	34.8	24.2	40.2	30.0	38.1	14.1	19.4	15.4	8.92	9.26
(WY)	1990	1997	1991	1989	1994	1994	1998	1996	1989	1999	1990	1989
MIN	.43	.59	1.12	2.85	4.67	5.52	2.41	1.26	.32	.75	.31	.43
(WY)	1988	1999	2000	1986	1988	1985	1986	1988	1988	1995	1987	1998

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

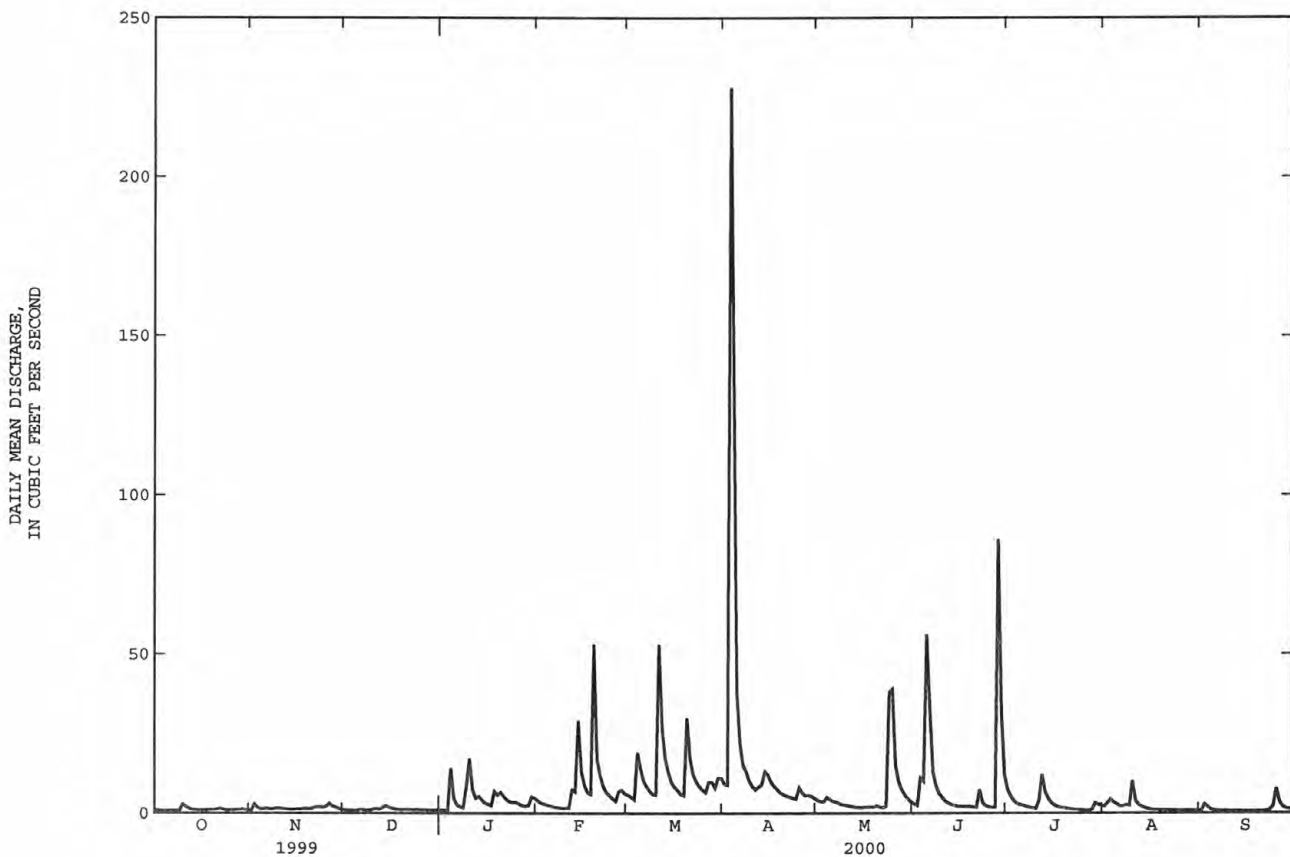
WATER YEARS 1985 - 2000

ANNUAL TOTAL	2368.57	2181.80	
ANNUAL MEAN	6.49	5.96	
HIGHEST ANNUAL MEAN			7.70
LOWEST ANNUAL MEAN			12.7
HIGHEST DAILY MEAN	254	Jul 12	329
LOWEST DAILY MEAN	.62	Oct 3	.19
ANNUAL SEVEN-DAY MINIMUM	.68	Oct 3	.21
INSTANTANEOUS PEAK FLOW			a783
INSTANTANEOUS PEAK STAGE			3.88
INSTANTANEOUS LOW FLOW			b.18
ANNUAL RUNOFF (CFSM)	1.50	1.37	1.77
ANNUAL RUNOFF (INCHES)	20.30	18.70	24.10
10 PERCENT EXCEEDS	13	11	16
50 PERCENT EXCEEDS	2.7	2.2	3.0
90 PERCENT EXCEEDS	.91	.82	.59

a From rating curve extended above 120 ft³/s, based on indirect measurement of peak flow.

b Also occurred Sept. 4, 1987.

e Estimated



TENNESSEE RIVER BASIN

03539600 DADDYS CREEK NEAR HEBBERTSBURG, TN

LOCATION.--Lat 35°59'53", long 84°49'24", Cumberland County, Hydrologic Unit 06010208, on right bank, 200 ft downstream of Antioch Bridge, 2.1 mi southeast of Hebbertsburg, 6.9 mi northeast of Crab Orchard, and at mile 9.1.

DRAINAGE AREA.--139 mi².

PERIOD OF RECORD.--October 1956 to September 1968, May 1999 to September 2000. Prior to May 1957 monthly discharge only, published in WSP 1726.

GAGE.--Data logger. Datum of gage is 1,445 ft above sea level, from topographic map, datum of 1929, supplementary adjustment of 1936. Prior to May 24, 1965, graphic water-stage recorder at same site and datum of 1929.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,720 ft³/s, maximum gage height 9.49, Apr. 4; minimum discharge, 1.6 ft³/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR MAY 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	723	28	487	48	5.4
2	---	---	---	---	---	---	---	466	26	1010	38	4.9
3	---	---	---	---	---	---	---	337	36	1660	30	e4.5
4	---	---	---	---	---	---	---	252	39	830	25	e4.0
5	---	---	---	---	---	---	---	319	32	389	22	e3.7
6	---	---	---	---	---	---	---	5460	29	e270	19	e3.5
7	---	---	---	---	---	---	---	2370	24	e200	18	e3.1
8	---	---	---	---	---	---	---	921	20	e140	15	e2.8
9	---	---	---	---	---	---	---	526	17	e120	14	e2.6
10	---	---	---	---	---	---	---	347	16	e110	12	e2.4
11	---	---	---	---	---	---	---	258	14	e400	11	e2.2
12	---	---	---	---	---	---	---	232	17	e2000	10	e2.0
13	---	---	---	---	---	---	---	323	16	e1500	9.2	e1.8
14	---	---	---	---	---	---	---	567	15	e1000	8.4	e1.6
15	---	---	---	---	---	---	---	423	16	e500	7.5	e1.5
16	---	---	---	---	---	---	---	276	19	334	6.8	e1.4
17	---	---	---	---	---	---	---	191	20	235	6.4	e1.3
18	---	---	---	---	---	---	---	150	15	333	6.1	e1.3
19	---	---	---	---	---	---	---	160	12	315	5.7	e1.2
20	---	---	---	---	---	---	---	136	11	317	5.5	e1.2
21	---	---	---	---	---	---	---	99	8.6	818	5.4	e3.0
22	---	---	---	---	---	---	---	78	7.6	509	5.1	2.5
23	---	---	---	---	---	---	---	73	7.0	299	4.8	2.4
24	---	---	---	---	---	---	---	110	8.8	432	4.7	2.3
25	---	---	---	---	---	---	---	151	72	1090	7.5	2.2
26	---	---	---	---	---	---	---	101	69	471	9.0	2.1
27	---	---	---	---	---	---	---	74	88	275	13	1.9
28	---	---	---	---	---	---	---	58	264	174	9.6	1.9
29	---	---	---	---	---	---	---	47	2170	119	7.7	1.8
30	---	---	---	---	---	---	---	39	1240	87	6.6	1.8
31	---	---	---	---	---	---	---	33	---	64	5.9	---
TOTAL	---	---	---	---	---	---	---	15300	4357.0	16488	396.9	74.3
MEAN	---	---	---	---	---	---	---	494	145	532	12.8	2.48
MAX	---	---	---	---	---	---	---	5460	2170	2000	48	5.4
MIN	---	---	---	---	---	---	---	33	7.0	64	4.7	1.2
CFSM	---	---	---	---	---	---	---	3.55	1.04	3.83	.09	.02
IN.	---	---	---	---	---	---	---	4.09	1.17	4.41	.11	.02

TENNESSEE RIVER BASIN

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03539600 DADDYS CREEK NEAR HEBBERTSBURG, TN--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.6	21	28	231	340	280	161	53	149	98	5.8
2	1.7	11	18	27	185	287	268	148	43	108	91	5.3
3	1.7	51	15	27	155	216	2360	119	35	77	98	4.9
4	2.5	36	14	368	141	222	5280	102	136	57	89	4.5
5	3.3	30	14	584	124	263	1780	98	144	44	55	4.5
6	2.9	22	15	328	108	209	861	91	102	36	41	4.3
7	2.6	17	15	222	97	181	570	78	91	31	33	3.9
8	2.7	14	17	161	89	159	467	60	61	26	30	3.5
9	3.2	12	22	146	81	142	413	54	44	22	28	3.3
10	11	10	25	266	76	134	339	47	32	19	23	3.2
11	12	9.4	34	246	72	546	293	43	26	17	19	3.0
12	11	8.5	52	179	142	825	409	38	21	58	18	3.0
13	12	9.1	66	152	418	558	421	34	17	100	15	3.1
14	8.3	9.1	247	163	1360	420	600	29	15	51	12	3.0
15	6.3	7.9	240	143	1050	338	600	26	14	29	10	2.8
16	5.3	7.2	136	127	587	301	468	23	12	22	8.8	2.6
17	4.5	6.7	94	130	413	381	382	20	11	17	7.8	2.3
18	3.7	6.7	71	153	331	349	320	19	60	14	6.9	2.1
19	3.4	6.4	57	221	856	329	268	17	86	13	6.3	2.0
20	3.1	6.1	49	246	828	2550	220	20	52	11	5.9	2.0
21	3.1	6.4	45	261	523	1390	165	23	45	9.2	5.6	2.6
22	3.1	6.2	44	209	388	758	146	33	1040	8.4	5.4	2.8
23	3.0	6.7	45	180	309	520	133	23	957	7.9	5.2	3.2
24	2.6	6.6	46	166	249	405	157	46	331	29	5.4	14
25	2.8	9.8	45	159	210	331	373	113	173	20	5.9	19
26	2.7	15	41	142	179	283	439	210	143	15	5.6	19
27	2.6	20	38	121	295	255	356	195	447	14	6.9	13
28	2.6	34	37	111	497	279	293	161	438	15	7.9	7.8
29	2.6	31	34	107	404	239	228	118	355	14	7.0	5.9
30	2.7	25	31	195	---	282	193	91	274	16	6.8	4.7
31	2.5	---	30	268	---	321	---	69	---	47	6.5	---
TOTAL	133.3	443.4	1658	5836	10398	13813	19082	2309	5258	1096.5	763.9	161.1
MEAN	4.30	14.8	53.5	188	359	446	636	74.5	175	35.4	24.6	5.37
MAX	12	51	247	584	1360	2550	5280	210	1040	149	98	19
MIN	1.7	2.6	14	27	72	134	133	17	11	7.9	5.2	2.0
CFSM	.03	.11	.38	1.35	2.58	3.21	4.58	.54	1.26	.25	.18	.04
IN.	.04	.12	.44	1.56	2.78	3.70	5.11	.62	1.41	.29	.20	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	59.6	244	381	390	452	640	448	241	97.2	123	47.2	38.3
MAX	220	1271	860	870	887	1011	812	512	457	587	140	209
(WY)	1958	1958	1968	1962	1962	1963	1962	1958	1961	1967	1959	1960
MIN	.52	2.44	12.5	188	99.2	272	94.1	27.2	13.6	10.3	1.66	.62
(WY)	1964	1964	1964	2000	1968	1966	1963	1962	1960	1960	1957	1968

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1957 - 2000

ANNUAL TOTAL	60952.2											
ANNUAL MEAN	167											
HIGHEST ANNUAL MEAN	368											1958
LOWEST ANNUAL MEAN	167											2000
HIGHEST DAILY MEAN	5460											
LOWEST DAILY MEAN	1.2											
ANNUAL SEVEN-DAY MINIMUM	1.4											
INSTANTANEOUS PEAK FLOW	5280											
INSTANTANEOUS PEAK STAGE	9.49											
INSTANTANEOUS LOW FLOW	1.6											
ANNUAL RUNOFF (CFSM)	1.20											
ANNUAL RUNOFF (INCHES)	16.31											
10 PERCENT EXCEEDS	393											
50 PERCENT EXCEEDS	16											
90 PERCENT EXCEEDS	2.5											

a From rating curve extended above 6,600 ft³/s, from site and datum.

e Estimated

TENNESSEE RIVER BASIN

03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN

LOCATION.--Lat 36°06'11", long 84°43'06", Morgan County, Hydrologic Unit 06010208, on right bank 200 yards upstream of Lilly Bridge, 0.1 mi downstream of Little Clear Creek, 3.8 mi west-southwest of Lancing, and at mile 1.6.

DRAINAGE AREA.--170 mi².

PERIOD OF RECORD.--April 1997 to current year.

GAGE.--Data collection platform. Datum of gage is 1,060 ft above sea level, from topographic map.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREME FOR CURRENT YEAR.--Maximum discharge, 6,040 ft³/s, gage height 10.58 ft; minimum, 0.16 ft³/s, Oct. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.47	16	18	224	276	213	203	111	46	56	5.5
2	.27	3.3	15	18	186	234	198	176	86	32	51	5.1
3	.25	7.2	14	17	158	203	917	154	67	23	54	4.6
4	.27	12	13	141	151	184	4230	261	54	17	76	3.9
5	.24	18	13	285	133	168	1310	247	48	13	51	3.2
6	.21	14	14	176	118	148	729	181	42	11	35	2.7
7	.19	12	13	130	109	133	513	145	44	9.6	26	2.9
8	.17	10	13	105	103	121	472	122	43	8.2	19	3.5
9	.49	9.3	13	101	97	113	465	104	33	7.4	18	3.9
10	2.1	8.4	17	142	91	110	372	102	26	6.6	16	3.2
11	2.0	e8.7	21	141	87	155	320	119	20	6.1	12	2.5
12	1.8	e8.5	21	116	111	285	878	98	17	9.1	9.7	2.2
13	1.5	e8.0	41	108	184	265	746	80	14	26	8.4	2.0
14	1.3	e7.5	142	118	1290	224	617	66	13	41	7.2	1.7
15	1.1	e7.0	126	107	935	197	507	55	11	22	6.1	1.5
16	1.2	6.4	82	99	544	186	405	46	11	14	5.3	1.2
17	1.3	6.0	59	97	377	667	338	40	24	11	4.6	1.0
18	1.1	5.6	46	135	451	583	299	35	39	8.3	4.0	.89
19	1.0	5.6	38	251	624	441	255	31	33	7.2	3.5	.83
20	.98	6.0	33	250	533	2500	222	29	31	6.3	2.7	.71
21	.88	5.7	31	232	400	1230	198	30	38	5.3	2.3	.78
22	.82	5.4	29	189	321	683	179	30	57	4.5	2.0	.76
23	.73	5.1	26	168	268	487	160	31	163	3.9	1.8	1.1
24	.71	5.5	24	158	229	374	161	79	99	3.3	1.6	2.0
25	.68	8.7	23	147	202	305	507	298	63	2.9	1.5	2.1
26	.57	11	22	132	177	308	623	403	43	2.5	1.4	3.7
27	.54	11	21	111	259	308	438	277	37	2.8	1.7	8.4
28	.60	11	20	110	409	340	351	303	31	3.1	1.6	7.7
29	.61	11	19	109	328	273	289	255	62	6.7	1.5	8.0
30	.55	15	19	199	---	250	238	195	65	5.7	2.0	7.7
31	.51	---	19	259	---	243	---	148	---	4.3	5.5	---
TOTAL	24.97	253.37	1003	4369	9099	11994	17150	4343	1425	369.8	488.4	95.27
MEAN	.81	8.45	32.4	141	314	387	572	140	47.5	11.9	15.8	3.18
MAX	2.1	18	142	285	1290	2500	4230	403	163	46	76	8.4
MIN	.17	.47	13	17	87	110	160	29	11	2.5	1.4	.71
CFSM	.00	.05	.19	.83	1.85	2.28	3.36	.82	.28	.07	.09	.02
IN.	.01	.06	.22	.96	1.99	2.62	3.75	.95	.31	.08	.11	.02

TENNESSEE RIVER BASIN

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03539778 CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.79	16.7	195	684	427	459	532	356	346	126	34.4	2.86
MAX	9.46	36.6	423	962	621	516	1118	635	782	349	104	4.63
(WY)	1999	1998	1999	1999	1998	1998	1998	1998	1997	1999	1998	1998
MIN	.81	5.07	32.4	141	314	387	218	140	47.5	11.9	4.65	1.66
(WY)	2000	1999	2000	2000	2000	2000	1999	2000	2000	2000	1997	1997

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

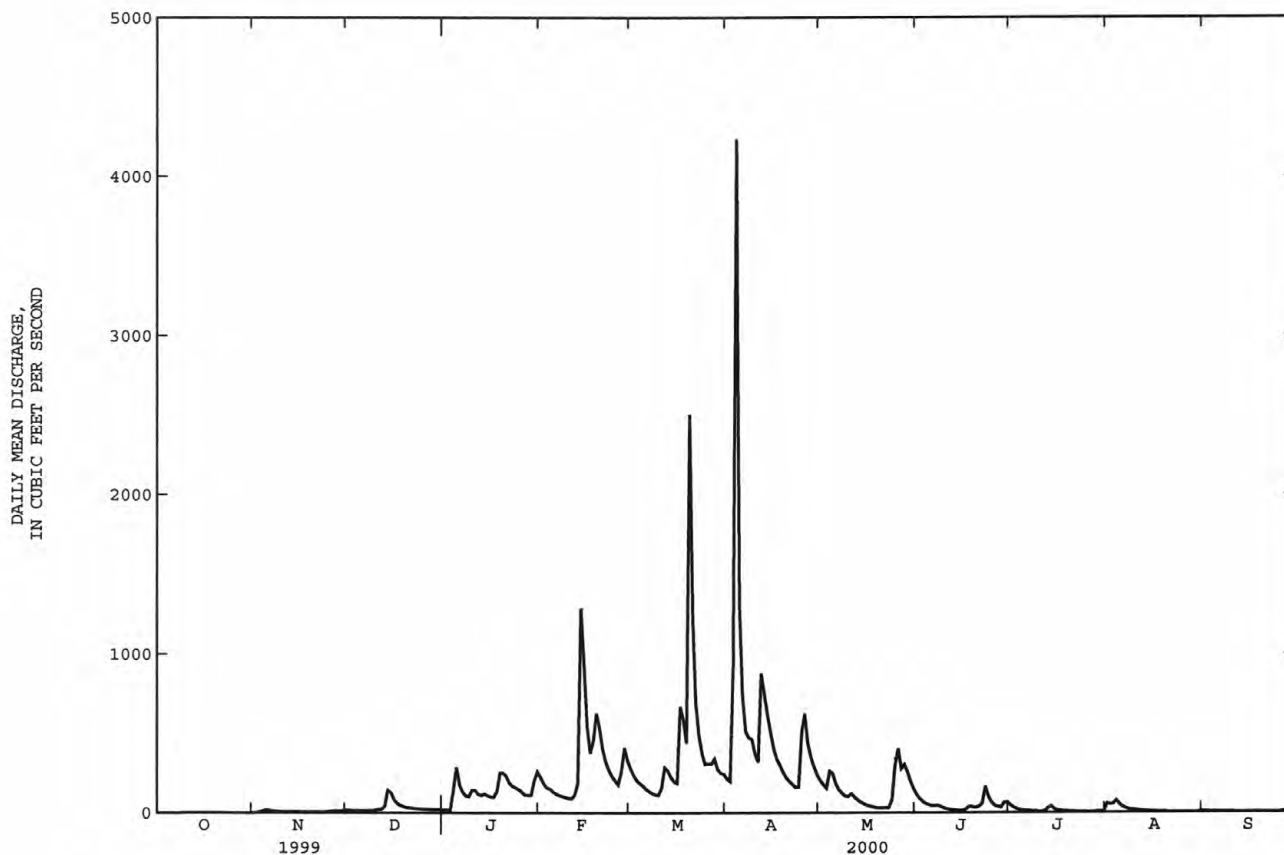
WATER YEARS 1997 - 2000

ANNUAL TOTAL	89226.65	50614.81	
ANNUAL MEAN	244	138	265
HIGHEST ANNUAL MEAN			378
LOWEST ANNUAL MEAN			138
HIGHEST DAILY MEAN	6520	Jan 23	4230
LOWEST DAILY MEAN	.17	Oct 8	.17
ANNUAL SEVEN-DAY MINIMUM	.23	Oct 2	.23
INSTANTANEOUS PEAK FLOW			6040
INSTANTANEOUS PEAK STAGE			10.58
INSTANTANEOUS LOW FLOW			b.16
ANNUAL RUNOFF (CFSM)	1.44		.81
ANNUAL RUNOFF (INCHES)	19.52		11.08
10 PERCENT EXCEEDS	618		339
50 PERCENT EXCEEDS	56		31
90 PERCENT EXCEEDS	.97		1.4

a From rating curve extended above 6,710 ft³/s.

b Also occurred Oct. 9.

e Estimated



TENNESSEE RIVER BASIN

03539800 OBED RIVER NEAR LANCING, TN

LOCATION.--Lat 36°04'53", long 84°40'15", Morgan County, Hydrologic Unit 06010208, on left bank at Alley Ford, 2.9 mi southwest of Lancing, 3.0 mi downstream from Clear Creek, and at mile 1.5.

DRAINAGE AREA.--518 mi².

PERIOD OF RECORD.--October 1956 to September 1968, March 1973 to December 1987, March 1999 to current year. Prior to May 1957 monthly discharge only, published in WSP 1726.

GAGE.--Water-stage recorder. Datum of gage is 891.91 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records goods. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Mar. 23, 1929, reached a stage of 33.9 ft, 35 ft downstream from gage, from high water marks by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0230	*23,800	*14.90	No other peak greater than base discharge.			

Minimum discharge, 2.5 ft³/s, Oct. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	4.6	46	70	829	1230	1020	687	297	371	136	19
2	3.4	8.7	41	66	e670	1020	921	586	222	260	235	17
3	3.2	88	36	65	e570	814	4890	501	162	193	220	16
4	3.1	106	32	545	522	702	17100	690	115	139	299	14
5	2.9	79	29	1650	463	727	6160	673	280	101	200	14
6	2.7	59	29	940	404	624	3240	489	181	79	132	14
7	2.7	44	28	631	371	535	2150	390	163	64	110	12
8	2.6	35	28	475	349	467	1890	322	136	54	88	12
9	3.6	29	33	411	333	424	1850	271	92	46	72	12
10	7.2	24	42	610	315	413	1500	250	68	39	68	11
11	9.1	21	51	668	304	1020	1270	287	51	35	58	9.9
12	41	19	77	518	360	2070	2590	247	41	41	44	8.8
13	33	17	122	443	970	1670	2390	188	34	158	36	8.2
14	26	16	550	467	4210	1260	2380	139	28	219	31	7.7
15	21	14	668	435	3840	1010	2200	100	23	108	26	6.8
16	17	14	407	386	2200	876	1770	81	21	68	22	6.2
17	14	13	294	374	1540	1780	1450	68	24	50	19	5.5
18	12	13	225	442	1530	1750	1210	59	60	39	17	5.1
19	10	12	173	784	2430	1420	1010	52	159	32	15	4.8
20	9.2	11	141	857	2490	8070	840	47	118	28	13	4.7
21	7.9	11	125	896	1760	5260	698	48	92	23	11	5.2
22	7.0	11	116	722	1340	2820	600	49	782	20	10	5.0
23	6.7	11	105	628	1090	1980	532	61	1770	19	9.2	5.7
24	6.2	11	106	574	892	1550	513	135	748	18	8.9	6.5
25	5.8	16	101	544	753	1250	1520	711	426	20	8.1	8.9
26	5.8	20	94	498	651	1130	2050	1260	308	29	7.6	34
27	5.5	23	87	488	873	1060	1600	943	471	23	7.8	48
28	5.2	46	83	472	1740	1200	1300	922	650	24	8.7	37
29	4.9	62	82	419	1470	993	1020	731	577	29	9.4	22
30	4.7	53	78	600	---	976	813	530	538	28	9.6	17
31	4.6	---	73	943	---	1170	---	399	---	25	19	---
TOTAL	291.5	891.3	4102	17621	35269	47271	68477	11916	8637	2382	1950.3	398.0
MEAN	9.40	29.7	132	568	1216	1525	2283	384	288	76.8	62.9	13.3
MAX	41	106	668	1650	4210	8070	17100	1260	1770	371	299	48
MIN	2.6	4.6	28	65	304	413	513	47	21	18	7.6	4.7
CFSM	.02	.06	.26	1.10	2.35	2.94	4.41	.74	.56	.15	.12	.03
IN.	.02	.06	.29	1.27	2.53	3.39	4.92	.86	.62	.17	.14	.03

TENNESSEE RIVER BASIN

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03539800 OBED RIVER NEAR LANCING, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	294	1015	1486	1734	1696	2292	1557	1109	399	418	150	164
MAX	1552	3829	3149	4780	3611	6220	3522	4066	1475	2572	587	856
(WY)	1976	1958	1968	1974	1962	1975	1977	1984	1961	1979	1985	1982
MIN	1.58	4.98	43.5	69.5	354	682	261	115	70.7	11.3	7.13	1.43
(WY)	1981	1964	1964	1981	1968	1985	1986	1962	1958	1980	1980	1968

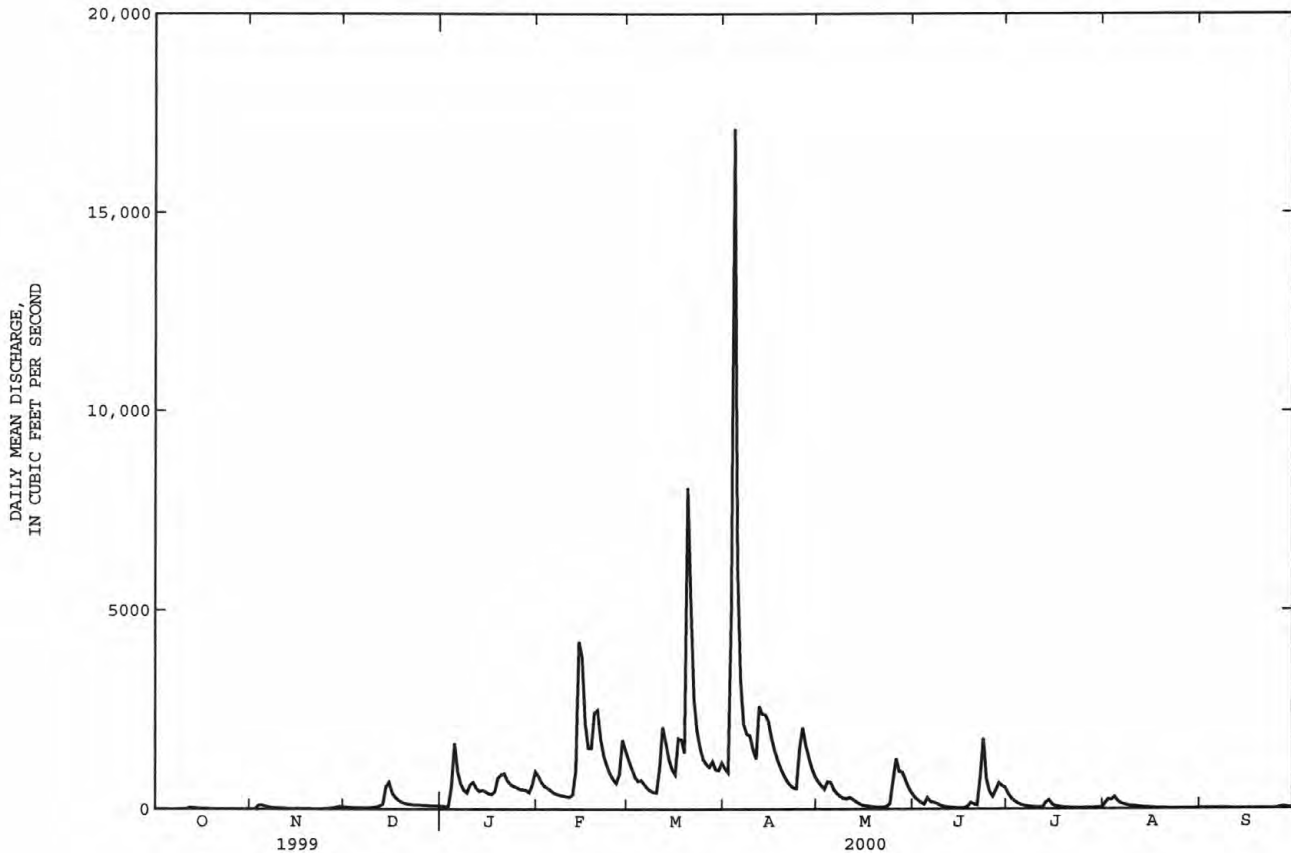
SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1957 - 2000

ANNUAL TOTAL	199206.1											
ANNUAL MEAN	544									1011		
HIGHEST ANNUAL MEAN										1553		1975
LOWEST ANNUAL MEAN										484		1981
HIGHEST DAILY MEAN	14100	May 6				17100	Apr 4		45000	Apr 4	1977	
LOWEST DAILY MEAN	2.3	Sep 26				2.6	Oct 8		.50	Oct 30	1963	
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 22				2.9	Oct 2		.61	Oct 25	1963	
INSTANTANEOUS PEAK FLOW						23800	Apr 4		a105000	May 27	1973	
INSTANTANEOUS PEAK STAGE						14.90	Apr 4		b29.51	May 27	1973	
INSTANTANEOUS LOW FLOW						2.5	Oct 8		.40	Oct 31	1963	
ANNUAL RUNOFF (CFSM)						1.05			1.95			
ANNUAL RUNOFF (INCHES)						14.31			26.52			
10 PERCENT EXCEEDS	1940					1480			2370			
50 PERCENT EXCEEDS	84					107			395			
90 PERCENT EXCEEDS	4.6					8.2			18			

a From rating curve extended above 33,000 ft³/s on basis of slope conveyance study at gage height, 22.40 ft and slope-area measurement of peak flow.

b From cross line in gage well, 30.5 ft, from flood marks.

e Estimated



TENNESSEE RIVER BASIN

03540500 EMORY RIVER AT OAKDALE, TN

LOCATION.--Lat 35°58'59", long 84°33'29", Morgan County, Hydrologic Unit 06010208, on left bank, at Oakdale, 1,000 ft downstream from highway bridge, 1,100 ft downstream from Mud Lick Creek, and at mile 18.3.

DRAINAGE AREA.--764 mi².

PERIOD OF RECORD.--June 1927 to current year. Prior to October 1929, published as Emory River at Harriman and October 1929 to September 1934 as Emory River at Oakdale.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1940. WSP 1386: 1928-30(M), 1932, 1943, 1945(P).

GAGE.--Data collection platform and data logger. Datum of gage is 761.38 ft above sea level. Prior to Oct. 1, 1929, nonrecording gage at site 5.8 mi downstream at datum 43.60 ft lower, and Oct. 1, 1929, to Dec. 29, 1969, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1857, that of Mar. 23, 1929, from report of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	1200	19,200	16.46	Apr 4	0430	*41,600	*22.51

Minimum discharge, 6.4 ft³/s, Oct. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.0	83	111	1230	1830	1400	1010	478	482	95	15
2	6.7	19	74	108	1060	1540	1300	867	365	306	327	30
3	6.7	41	68	104	905	1300	7670	764	283	227	683	29
4	7.7	133	62	486	832	1160	29500	768	226	169	602	27
5	9.9	110	57	2120	757	1160	9710	917	299	129	378	24
6	8.4	96	58	1340	669	1050	4840	678	284	103	245	25
7	7.4	77	55	961	608	926	3110	560	233	87	177	22
8	6.7	65	55	746	567	836	2530	470	216	74	271	19
9	9.0	55	54	668	531	771	2490	390	172	64	240	17
10	56	48	73	906	497	744	2020	356	134	57	175	17
11	60	41	109	1060	476	1820	1700	382	107	51	140	16
12	41	36	121	861	588	3660	3290	360	89	88	103	14
13	57	32	208	768	1220	2730	3490	290	77	130	81	14
14	55	29	573	777	6020	2020	3230	236	67	241	67	12
15	45	26	894	737	5560	1640	3010	192	62	166	59	10
16	39	24	590	660	3130	1420	2430	158	78	101	50	8.6
17	31	22	415	626	2170	2150	1960	134	66	76	43	7.7
18	24	23	319	751	1940	2390	1630	117	71	62	38	7.2
19	20	21	258	1230	2880	1980	1370	105	138	54	32	6.9
20	18	20	217	1360	3220	13100	1170	97	191	46	27	6.7
21	16	19	196	1380	2400	7790	996	101	151	38	24	7.2
22	15	18	184	1160	1860	4110	862	102	348	32	21	6.9
23	12	17	170	1020	1550	2780	769	114	1950	27	19	7.7
24	9.8	18	165	922	1320	2100	724	1260	919	28	18	9.9
25	8.8	48	160	860	1160	1690	1520	1600	513	37	16	18
26	8.4	69	153	781	1030	1500	2660	1850	352	33	14	27
27	8.2	83	143	678	1240	1410	2110	1450	393	42	15	48
28	8.2	74	135	600	2620	1560	1780	1320	850	35	15	63
29	8.1	95	127	621	2210	1360	1470	1070	693	46	15	58
30	8.0	98	123	820	---	1340	1190	801	681	65	14	44
31	7.9	---	118	1310	---	1540	---	630	---	67	14	---
TOTAL	626.3	1465.0	6017	26532	50250	71407	101931	19149	10486	3163	4018	617.8
MEAN	20.2	48.8	194	856	1733	2303	3398	618	350	102	130	20.6
MAX	60	133	894	2120	6020	13100	29500	1850	1950	482	683	63
MIN	6.7	8.0	54	104	476	744	724	97	62	27	14	6.7
MED	9.8	38	135	781	1230	1560	1990	470	230	65	50	16
CFSM	.03	.06	.25	1.12	2.27	3.01	4.45	.81	.46	.13	.17	.03
IN.	.03	.07	.29	1.29	2.45	3.48	4.96	.93	.51	.15	.20	.03

TENNESSEE RIVER BASIN

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03540500 EMORY RIVER AT OAKDALE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	285	1073	2224	2828	2973	3169	2185	1335	729	504	280	231
MAX	1971	6214	7938	7941	8136	8962	5808	5804	6731	3694	2107	1562
(WY)	1976	1958	1991	1937	1939	1975	1977	1973	1989	1967	1942	1944
MIN	.57	.37	42.1	97.8	422	946	374	140	16.3	5.55	7.70	.91
(WY)	1954	1954	1940	1981	1941	1985	1986	1962	1936	1944	1930	1954

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1927 - 2000

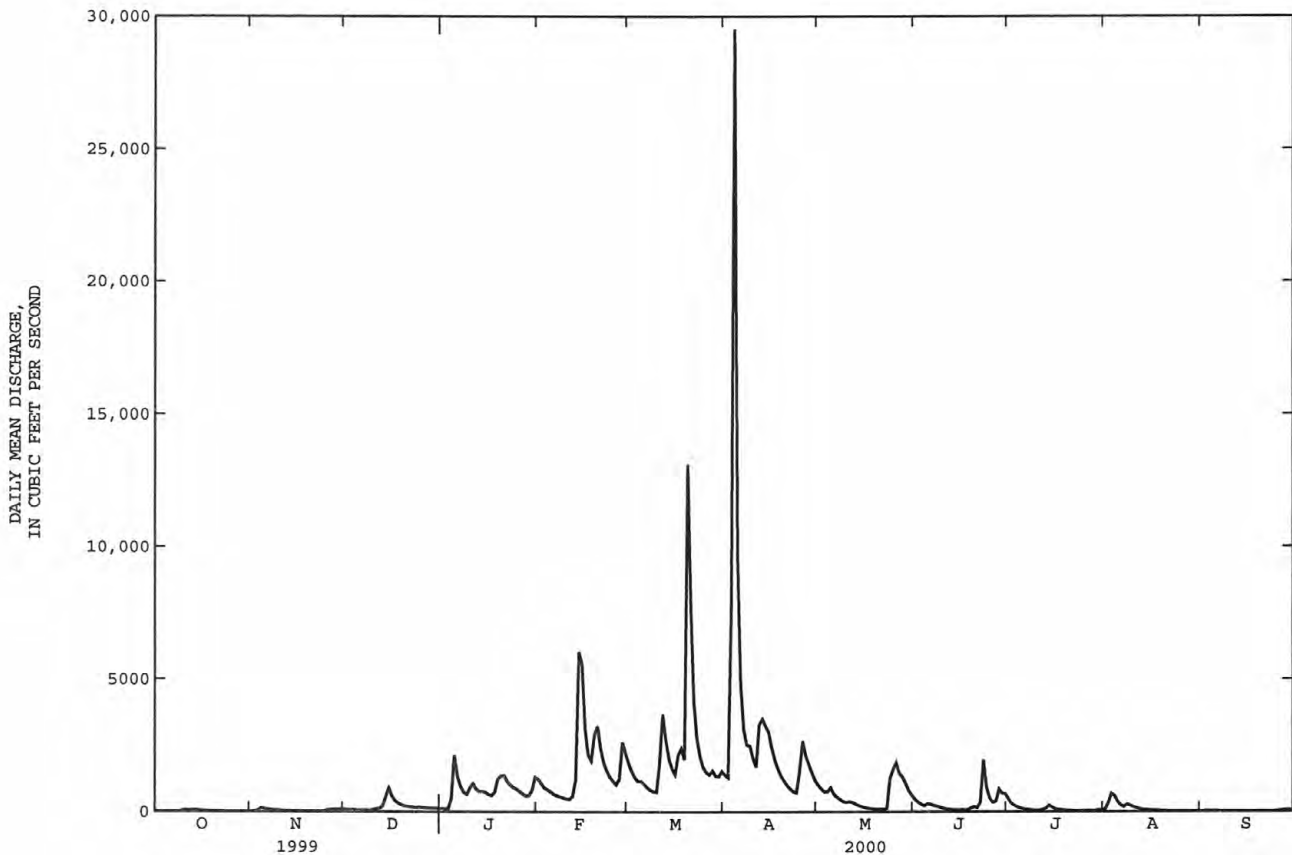
ANNUAL TOTAL	488982.8	295662.1	
ANNUAL MEAN	1340	808	1478
HIGHEST ANNUAL MEAN			2653
LOWEST ANNUAL MEAN			670
HIGHEST DAILY MEAN	20100	Jul 12	103000
LOWEST DAILY MEAN	4.9	Sep 19	a.00
ANNUAL SEVEN-DAY MINIMUM	5.6	Sep 16	.00
INSTANTANEOUS PEAK FLOW			b195000
INSTANTANEOUS PEAK STAGE			c41.20
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.75	1.06	1.93
ANNUAL RUNOFF (INCHES)	23.81	14.40	26.28
10 PERCENT EXCEEDS	3410	1970	3420
50 PERCENT EXCEEDS	528	171	557
90 PERCENT EXCEEDS	9.6	15	20

a Also occurred on Aug. 14, 15, 1944; Nov. 7, 8, 9, 1952.

b From rating curve extended above 85,000 ft³/s confirmed by slope-area measurements of May 28, 1973, flood at gageheight 38.68 ft.

c From floodmarks and flood profile, present site and datum, 61.1 ft at site and datum then in use.

d Also occurred Oct. 9.



TENNESSEE RIVER BASIN

03566000 HIWASSEE RIVER AT CHARLESTON, TN

LOCATION.--Lat 35°17'16", long 84°45'07", until April 9, 1996, lat 35°17'17", long 84°45'10", until Nov. 10, 1998, lat 35°17'42", long 84°45'36" thereafter, Hydrologic Unit 06020002, on left bank 250 ft upstream from Norfolk Southern Railway bridge until April 9, 1996, at Norfolk Southern Railway bridge until Nov. 10, 1998, on right bank at dolphin at Bowater Southern Paper Company's barge facility thereafter, 0.3 mi downstream from bridge on U.S. Highway 11 at Charleston, and at mile 18.2.

DRAINAGE AREA.--2,298 mi².

PERIOD OF RECORD.--November 1898 to April 1899, November 1899 to April 1903, October 1919 to January 1940, January 1963 to January 1977, September 1979 to December 1981 (vane lost), August 1987 to current year. Gage-height records collected at this station during the period December 1884 to December 1889 are contained in the United States War Department Stages of Ohio River and Principal Tributaries, 1858-89, Part 1, and during period January 1890 to December 1943 in reports of the U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1436: 1902, 1922(M), 1928, 1936(M).

GAGE.--Data collection platform and velocity recorder. Datum of gage is 665.56 ft above sea level. Prior to July 18, 1925, non-recording gages, and July 18, 1925 to September 6, 1926, water-stage recorder, at present site, at datum 1.50 ft higher. September 1926 to January 1940, January 1963 to January 1977, September 1979 to December 1981, August 1987 to April 1996, on left bank 250 ft upstream of present site, at same datum.

REMARKS.--Records good. Some diversions above gage for industrial and municipal water supplies. Flow regulated by seven reservoirs (see p. 243 and Water Resources Data for Georgia and North Carolina). Reverse flow has occurred for short periods each year since closure of Chickamauga Dam on Tennessee River in 1939. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 31, 1886, reached a stage of 34.0 ft, present datum, discharge about 70,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,400 ft³/s, Apr. 4; maximum gage height, 19.13 ft, Apr. 4; minimum daily, 569 ft³/s, Jan. 2, minimum gage height, 10.05 ft, Jan. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2260	3250	2940	585	2360	1360	880	1730	1950	2150	3110	3350
2	2390	4690	2880	569	2870	1330	1280	1540	2170	1810	3270	2460
3	1630	4340	2600	1040	1900	1160	7510	2050	2290	1140	3600	2470
4	2240	3720	2340	2000	1690	1320	21200	3080	1470	1350	3290	2550
5	2500	3950	2440	2430	1710	1780	13000	3000	1480	1370	4190	1370
6	2750	2980	2660	1780	1220	1300	7640	2210	3030	2230	3390	1530
7	2690	2530	2950	1770	1410	1540	6200	1540	2430	2300	3850	1460
8	2840	e2480	2860	910	1210	1270	5200	1370	1720	1880	4820	1640
9	2010	e2400	2340	1070	1090	1120	3290	1760	2150	1160	4070	e1930
10	2290	e2360	1510	2940	1040	1210	3340	1830	1750	1870	3730	e2320
11	3840	e2330	1530	3740	1030	2140	3160	1580	1180	2340	3200	2720
12	3680	e2280	1520	3040	1080	3870	e3440	1700	1690	3040	2570	3620
13	3350	2240	3160	2540	1750	2980	e4070	2130	1850	2900	e2760	3430
14	3210	2170	3500	2480	2720	2530	e4990	1590	2000	2630	2980	3360
15	3100	2930	4140	2680	3020	2210	e4070	1340	1720	2420	3070	3430
16	2770	4090	3520	1830	2370	1810	e3240	1170	1660	1430	e3340	e3220
17	2110	4190	3510	1960	1820	2350	2460	1240	1480	1920	e3680	e3050
18	2560	3740	2910	2320	1520	1800	2050	1100	2070	1960	4090	e2900
19	3180	3740	2600	2800	1340	1200	e1790	1210	1500	2350	2130	e2800
20	3140	2550	3240	2820	1860	3610	e1760	1320	1890	1890	2230	2690
21	3330	2950	3720	3540	1540	3380	e1650	1140	2040	2060	2360	3080
22	3190	3320	4150	2790	1360	2180	1740	1290	2560	1860	3010	e2650
23	2940	2970	3380	1390	1350	2120	1540	1350	2240	1470	2970	2210
24	2630	2690	2520	2180	1130	2040	1530	1140	1930	1470	3320	2740
25	2830	2180	2320	3490	1020	1710	3420	1910	1550	1680	3430	2410
26	3160	877	1570	3640	947	1670	3540	1750	1900	1550	2440	3600
27	3180	1280	1280	4620	1170	1450	2960	1880	2080	1980	2380	2480
28	2930	985	1680	2700	2030	2420	2490	1850	2120	2720	2690	1560
29	3310	1570	1380	2250	1510	2300	1880	1570	1870	2280	3450	2460
30	3350	3130	1560	1660	---	1670	1520	1920	2230	2310	3890	3240
31	2560	---	920	2290	---	1370	---	1670	---	2100	4060	---
TOTAL	87950	84912	79630	71854	47067	60200	122840	51960	58000	61620	101370	78730
MEAN	2837	2830	2569	2318	1623	1942	4095	1676	1933	1988	3270	2624
MAX	3840	4690	4150	4620	3020	3870	21200	3080	3030	3040	4820	3620
MIN	1630	877	920	569	947	1120	880	1100	1180	1140	2130	1370

03566000 HIWASSEE RIVER AT CHARLESTON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3962	4357	5475	6117	6435	6175	4530	3788	3954	3844	3863	3586
MAX	9332	8638	12980	13060	16270	13860	11950	7922	8897	6975	6201	5118
(WY)	1990	1968	1968	1974	1990	1990	1994	1973	1989	1967	1967	1967
MIN	1442	1681	2070	2318	1623	1866	1110	971	1395	1750	1810	1747
(WY)	1989	1982	1988	2000	2000	1988	1988	1988	1988	1988	1988	1987

SUMMARY STATISTICS

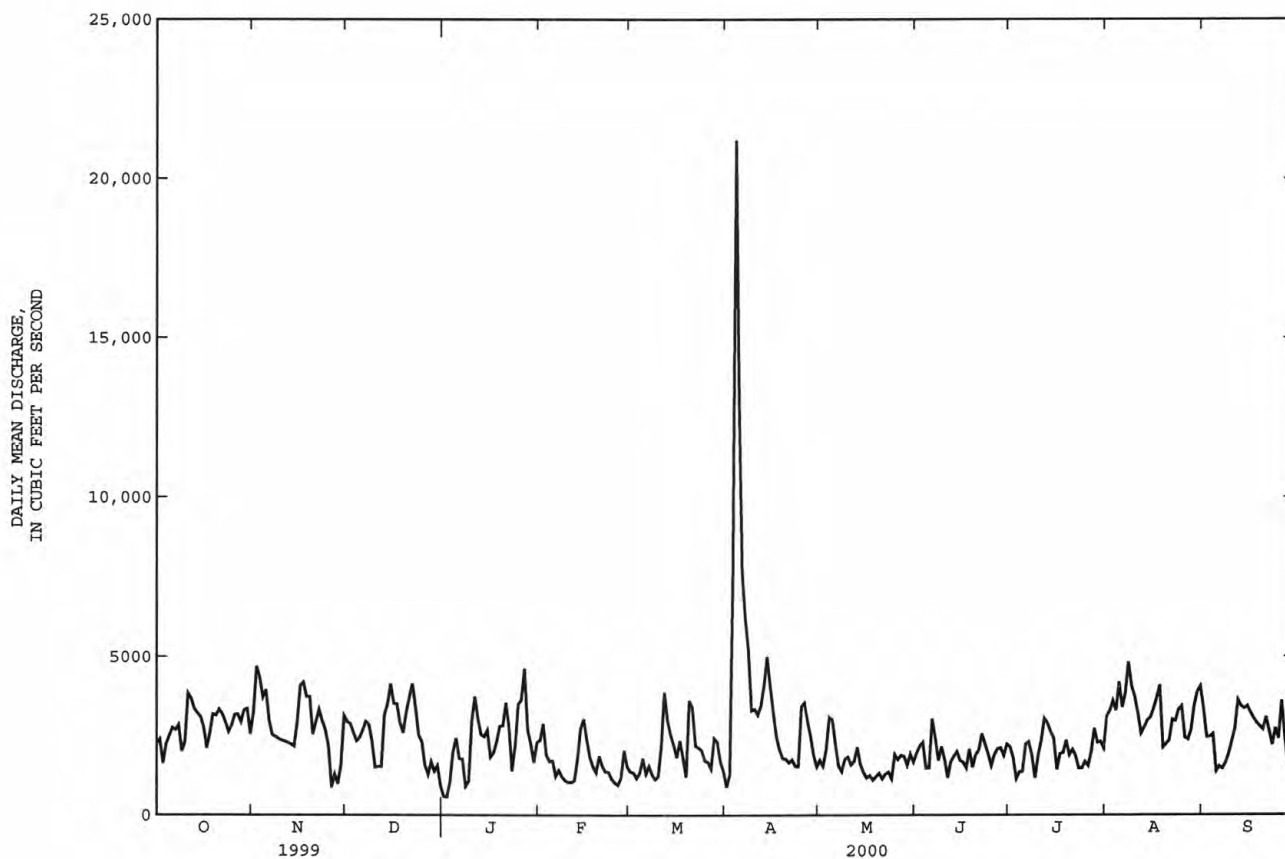
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1964 - 2000

ANNUAL TOTAL	1310302	906133	
ANNUAL MEAN	3590	2476	4664
HIGHEST ANNUAL MEAN			6891
LOWEST ANNUAL MEAN			1894
HIGHEST DAILY MEAN	12400	Jan 24	21200
LOWEST DAILY MEAN	877	Nov 26	569
ANNUAL SEVEN-DAY MINIMUM	1390	Apr 19	1100
INSTANTANEOUS PEAK FLOW			57000
INSTANTANEOUS PEAK STAGE			29.42
10 PERCENT EXCEEDS	5890		3610
50 PERCENT EXCEEDS	3110		2300
90 PERCENT EXCEEDS	1750		1290

e Estimated



TENNESSEE RIVER BASIN

035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN

LOCATION.--Lat 35°26'55", long 84°39'23", McMinn County, Hydrologic Unit 06020002, on right bank at downstream end of culvert at county road, 1.5 mi west of Athens.

DRAINAGE AREA.--42.1 mi²

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0415	1,530	12.92	Sep 25	0745	*1,650	*13.12

Minimum discharge, 15 ft³/s, Sept. 16, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	19	17	42	48	48	68	32	33	27	19
2	22	54	20	17	40	46	64	65	32	31	121	25
3	21	30	18	17	39	44	579	68	32	30	82	21
4	42	23	18	31	37	49	970	71	33	28	39	21
5	25	22	19	24	35	45	287	61	36	29	34	24
6	23	22	22	22	34	43	203	56	38	35	31	26
7	23	20	20	20	34	42	166	53	32	31	29	21
8	22	20	19	19	33	41	154	52	31	27	28	20
9	28	20	19	81	33	40	133	50	29	26	27	19
10	49	20	24	294	32	39	120	55	29	26	45	19
11	27	20	21	92	32	109	111	49	28	26	32	19
12	23	19	20	63	121	65	106	47	28	29	27	19
13	22	19	24	56	71	58	144	45	28	37	26	19
14	22	19	24	49	170	54	196	43	28	27	25	19
15	22	19	21	43	99	52	147	43	27	25	25	18
16	20	18	21	41	83	58	129	42	27	24	24	17
17	20	18	20	40	73	71	118	41	39	24	23	18
18	19	18	20	42	69	53	108	40	58	24	22	18
19	19	18	19	40	74	55	99	39	31	24	22	17
20	21	18	20	42	62	200	92	38	30	23	21	18
21	20	18	20	37	59	104	99	38	28	23	22	25
22	19	18	20	36	54	88	84	38	43	21	22	19
23	18	18	19	39	52	78	77	40	32	39	21	22
24	18	18	18	42	49	72	97	38	28	27	22	33
25	19	23	18	42	47	66	133	39	27	24	22	577
26	19	28	18	38	45	62	101	37	27	23	20	74
27	19	22	18	36	64	75	89	37	27	23	23	47
28	19	20	18	35	56	66	85	42	42	22	22	40
29	19	20	18	43	49	59	77	36	81	29	21	36
30	19	20	18	50	---	57	72	35	38	45	20	31
31	18	---	18	45	---	52	---	34	---	40	20	---
TOTAL	699	640	611	1493	1688	1991	4888	1440	1021	875	945	1301
MEAN	22.5	21.3	19.7	48.2	58.2	64.2	163	46.5	34.0	28.2	30.5	43.4
MAX	49	54	24	294	170	200	970	71	81	45	121	577
MIN	18	18	18	17	32	39	48	34	27	21	20	17
CFSM	.54	.51	.47	1.14	1.38	1.53	3.87	1.10	.81	.67	.72	1.03
IN.	.62	.57	.54	1.32	1.49	1.76	4.32	1.27	.90	.77	.84	1.15

035661285 NORTH MOUSE CREEK NEAR ROCKY MOUNT HOLLOW NEAR ATHENS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	35.0	48.8	64.3	135	140	170	154	89.2	81.0	60.3	38.9	33.7
MAX	59.5	113	139	225	258	297	381	125	191	113	80.7	43.4
(WY)	1996	1996	1997	1996	1994	1994	1994	1999	1997	1994	1994	2000
MIN	15.1	19.1	19.7	48.2	58.2	64.2	53.1	46.5	34.0	28.2	29.3	22.9
(WY)	1994	1999	2000	2000	2000	2000	1995	2000	2000	2000	1998	1998

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

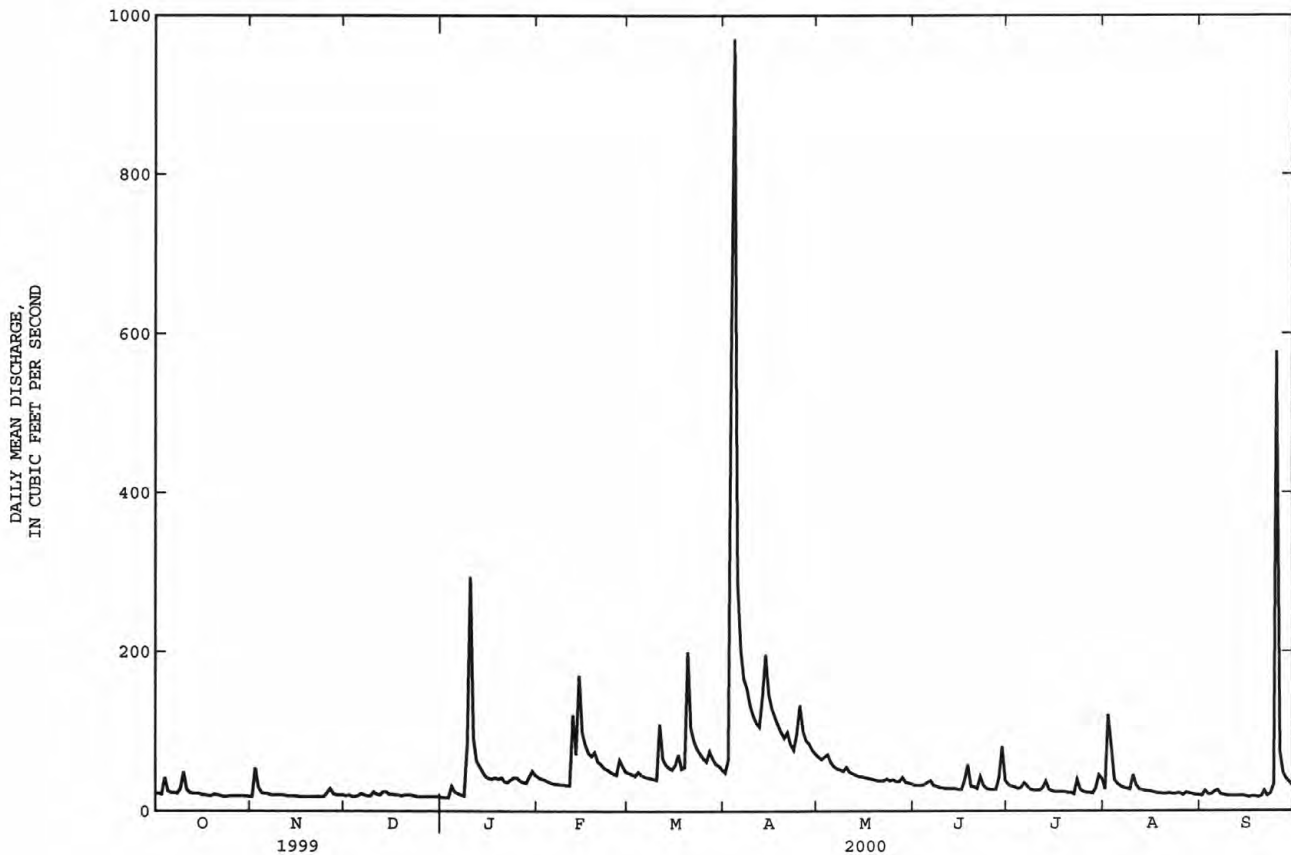
FOR 2000 WATER YEAR

WATER YEARS 1994 - 2000

ANNUAL TOTAL	25638	17592	
ANNUAL MEAN	70.2	48.1	87.2
HIGHEST ANNUAL MEAN			125
LOWEST ANNUAL MEAN			48.1
HIGHEST DAILY MEAN	862	Jul 12	970
LOWEST DAILY MEAN	18	Oct 23	17
ANNUAL SEVEN-DAY MINIMUM	18	Nov 16	18
INSTANTANEOUS PEAK FLOW			1650
INSTANTANEOUS PEAK STAGE			13.12
INSTANTANEOUS LOW FLOW			a15
ANNUAL RUNOFF (CFSM)	1.67	1.14	2.07
ANNUAL RUNOFF (INCHES)	22.65	15.54	28.13
10 PERCENT EXCEEDS	140	83	162
50 PERCENT EXCEEDS	44	31	54
90 PERCENT EXCEEDS	19	19	22

a Also occurred Sept. 20.

b Also occurred Oct. 29, 1993.



TENNESSEE RIVER BASIN

03568000 TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", long 85°16'43", Hamilton County, Hydrologic Unit 06020001, 0.5 mi downstream from South Chickamauga Creek, 3.0 mi downstream from Chickamauga Dam, 3.5 mi upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1874 to current year. Monthly discharges only for some periods, published in WSP 1306. July 1930 to December 1935, published as "at Hales Bar, near Chattanooga." Gage-height records collected in this vicinity since 1874 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 353: 1874-1912. WSP 783: 1917. WSP 823: 1875(M). WSP 973: 1942. WSP 1306: 1916(M). WSP 1386: 1932-34 (station at Hales Bar near Chattanooga).

GAGE.--Water-stage recorder. Datum of gage is 621.12 ft above sea level. Prior to Feb. 1, 1939, nonrecording or recording gages at several sites from 7.0 mi upstream from Chattanooga to Hales Bar Dam 33 mi downstream at or within 0.2 ft of present datum, except nonrecording gage at Bridgeport, AL, 49.9 mi downstream at different datum Oct. 22, 1913, to Feb. 28, 1915, and Oct. 1, 1918, to Jan. 5, 1921. Auxiliary gages at several sites parts of periods since Feb. 28, 1915. Present auxiliary gage at site 2.2 mi downstream from base gage at same datum.

REMARKS.--No estimated discharges. Records fair. Flow regulated since 1936 by many upstream reservoirs (see p. 243 and Water Resources Data for adjoining states).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 410,000 ft³/s, Mar. 1, 1875, gage height, 53.8 ft, present datum, at Walnut Street, from rating curve extended above 250,000 ft³/s; minimum daily, 1,200 ft³/s, Nov. 1, 1953; minimum gage height, 0.0 ft, Sept. 11-14, 1881, Sept. 19, 1883.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 57.9 ft, Mar. 11, 1867, present datum at Walnut Street, discharge about 459,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 137,000 ft³/s, Apr. 5; maximum gage height, 22.98 ft, Apr. 5; minimum daily discharge, 6,820 ft³/s, May 7; minimum gage height, 11.11 ft, May 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21800	25900	39800	10000	22200	20100	10100	15100	13800	19900	33400	32000
2	19000	30200	35000	10200	19600	17400	9580	17700	28500	15900	20300	30900
3	12400	35600	25600	16600	16000	16600	16200	16500	23800	19000	38600	32500
4	19500	30500	18200	13100	13400	13800	51600	17800	15900	17800	29600	26900
5	22800	23400	18500	15700	10600	14800	105000	22800	12600	16500	32700	18000
6	21900	20600	34400	17300	11900	23400	59200	16500	9230	15400	39800	19200
7	23000	18400	31200	18800	14000	23000	51200	6820	15300	17600	39500	13700
8	24100	26700	27800	16300	13600	13800	45600	13700	17300	22700	35900	11000
9	21600	31200	17900	11200	16500	10600	36800	20900	14900	13500	36600	16000
10	24600	28300	17500	13600	11700	15100	32700	17300	20900	23800	34900	18500
11	29900	24600	24700	25600	9780	9430	33000	16800	20700	19500	36400	24700
12	34900	24800	13300	34500	10400	13100	40300	21400	24400	20300	36700	25400
13	33400	22900	27500	23400	10600	20400	34700	16800	19000	21100	39500	33200
14	24300	20000	30500	33500	19300	30300	29200	12200	19200	26300	35400	31000
15	27000	22100	27900	28400	34400	33800	19900	10800	16000	26500	30900	33800
16	22000	34800	29800	23200	41700	34800	24100	7350	15300	22100	38200	16800
17	18500	36000	32900	20000	44300	31000	28200	10500	17400	27800	36200	20300
18	22600	25000	22500	27400	43400	15900	28500	10600	18000	19900	38500	21800
19	25300	19200	17100	36600	26900	9970	33000	13600	20000	21400	33000	22000
20	22400	22400	23900	29100	16500	18500	28000	12000	21000	14100	28600	20300
21	25600	21400	35200	38900	28600	39200	23300	8610	15100	22900	32800	24000
22	33100	28500	38500	27400	29400	28100	13400	10000	13100	19200	28400	19300
23	24500	30200	34600	10900	27000	22400	11200	10900	16400	16900	29400	17600
24	12800	27000	21600	21200	19800	30300	25500	13600	17700	18400	30600	14900
25	23400	17600	13000	32700	16800	19100	36100	21200	15700	15900	35100	25300
26	27200	16500	14500	34600	12900	13500	34200	30100	22000	16600	37200	22500
27	27000	17800	16800	33500	14300	14400	24600	25500	15900	18400	38100	26700
28	28600	19300	19700	30600	19700	20700	33800	16000	16200	27200	38000	23700
29	26300	29400	15500	15300	19700	21300	25800	14900	16500	31900	28900	24400
30	19700	37700	16800	11900	---	16100	11100	13700	18600	29100	23300	37400
31	16200	---	10500	14400	---	12100	---	8860	---	29400	31900	---
TOTAL	735400	768000	752700	695900	594980	623000	955880	470540	530430	647000	1048400	703800
MEAN	23720	25600	24280	22450	20520	20100	31860	15180	17680	20870	33820	23460
MAX	34900	37700	39800	38900	44300	39200	105000	30100	28500	31900	39800	37400
MIN	12400	16500	10500	10000	9780	9430	9580	6820	9230	13500	20300	11000

TENNESSEE RIVER BASIN

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03568000 TENNESSEE RIVER AT CHATTANOOGA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	29250	34220	44000	49030	50190	47050	29040	28630	29810	29860	31500	28630
MAX	63270	68330	94270	127900	132800	98850	107800	87890	65280	49670	41590	42140
(WY)	1990	1958	1973	1974	1957	1963	1994	1984	1989	1989	1994	1967
MIN	16690	16340	13660	17370	20520	14380	7503	7805	11310	11230	12740	14090
(WY)	1984	1988	1988	1986	2000	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS

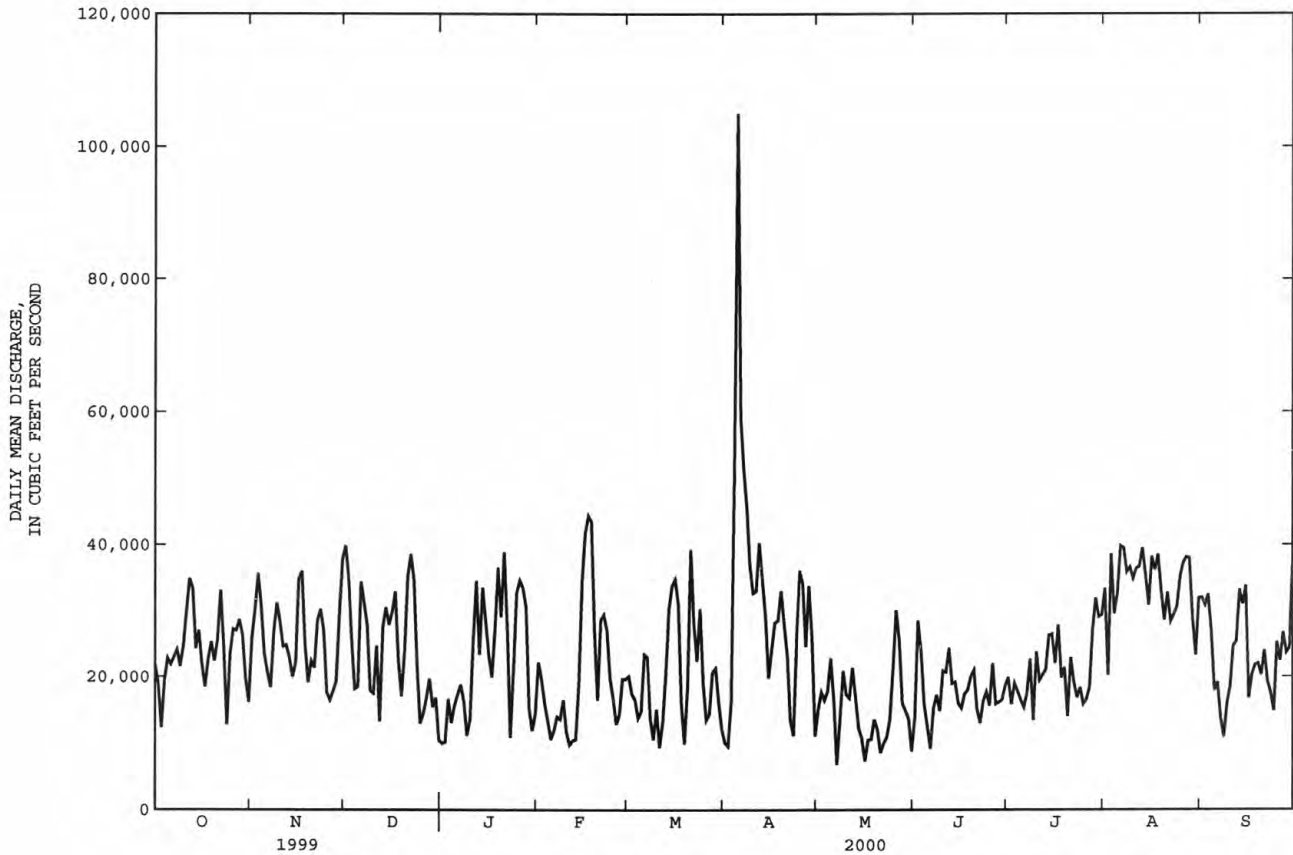
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

*WATER YEARS 1954 - 2000

ANNUAL TOTAL	10792480	8526030	
ANNUAL MEAN	29570	23300	
HIGHEST ANNUAL MEAN			35890
LOWEST ANNUAL MEAN			53260
HIGHEST DAILY MEAN	89800	Jan 24	105000
LOWEST DAILY MEAN	7790	Apr 26	6820
ANNUAL SEVEN-DAY MINIMUM	8680	Apr 26	10400
INSTANTANEOUS PEAK FLOW			137000
INSTANTANEOUS PEAK STAGE			22.98
10 PERCENT EXCEEDS	49000		35100
50 PERCENT EXCEEDS	27000		21800
90 PERCENT EXCEEDS	12400		12900

* Regulated period only.



TENNESSEE RIVER BASIN

03568000 TENNESSEE RIVER AT CHATTANOOGA, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 09...	1215	17500	196	7.5	13.0	755	2	8.4	80	K5	76
FEB 10...	1115	25700	172	8.1	8.5	748	3	11.7	102	<1	60
APR 13...	1200	39500	116	7.6	16.0	766	9	--	--	--	53
JUN 22...	1030	16600	184	7.7	27.5	748	3	4.2	54	K4	68
AUG 22...	1100	29100	175	7.8	28.0	756	2	4.8	62	K2	72

DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)
DEC 09...	8	21.2	5.66	8.8	20	.4	1.5	83	68	13.8	8.4
FEB 10...	5	17.0	4.36	8.9	24	.5	1.6	68	56	14.3	8.1
APR 13...	1	15.1	3.65	5.3	17	.3	1.5	63	51	11.2	5.6
JUN 22...	6	19.0	4.87	7.1	18	.4	1.5	75	61	10.8	7.7
AUG 22...	6	19.9	5.43	7.9	19	.4	1.6	80	65	14.5	7.5

DATE	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)
DEC 09...	<.1	4.1	112	105	.15	--	<.010	.220	.037	.16	.18
FEB 10...	<.1	3.1	100	92	.14	--	<.010	.285	<.020	.18	.23
APR 13...	<.1	4.0	79	79	.11	--	<.010	.276	.077	.20	.24
JUN 22...	<.1	4.1	103	93	.14	.130	.013	.143	.084	.26	.32
AUG 22...	<.1	5.0	107	102	.15	--	<.010	.115	.060	.24	.32

DATE	NITRO- GEN, TOTAL (MG/L) AS N (00600)	PHOS- PHORUS TOTAL (MG/L) AS P (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P (00671)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L) AS C (00689)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 09...	.40	.025	.019	<.010	<10	16	1.9	<.2	2	75
FEB 10...	.52	.021	.014	<.010	E10	6	1.9	.2	2	75
APR 13...	.52	<.050	.023	.017	E10	15	2.4	.3	5	94
JUN 22...	.46	.026	.018	.013	<10	4	2.2	.2	8	68
AUG 22...	.43	.017	.021	.014	<10	3	2.1	.3	4	83

K--Results based on non-ideal colony count.
E--Estimated

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TENNESSEE RIVER BASIN

03573182 SCARHAM CREEK NEAR MCVILLE, AL

LOCATION.--Lat 34°17'54", long 86°07'00", Marshall County, Hydrologic Unit 06030001, on right downstream bank, 40 ft downstream of Colvin Bridge on County Road 372 (also know as McVile Road), 2.4 mi southeast of Painter. and at mile 8.6.

DRAINAGE AREA.--50 mi².

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Data recorder and pressure sensor. Datum of gage is 890 ft above sea level from topographic map.

REMARKS.--No estimated daily discharge. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	0015	1,560	8.75	Apr 3	1945	*3,640	*11.79

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	9.2	1.7	3.4	95	65	66	44	3.7	29	.15	.06
2	.00	49	1.5	3.1	81	57	430	39	3.2	16	2.4	.04
3	.00	7.7	1.6	3.1	75	53	1770	36	2.8	11	1.2	.03
4	.00	2.7	1.5	68	70	63	1520	38	2.4	7.4	.83	.01
5	.01	1.7	1.8	46	61	53	457	31	32	5.3	.59	.00
6	.00	1.2	3.8	30	56	47	298	27	23	4.0	.43	.00
7	.00	1.1	3.4	24	54	43	229	23	10	3.2	.29	.00
8	.00	1.4	2.7	21	51	40	200	21	6.9	2.6	.23	.00
9	.02	1.4	2.5	30	48	38	165	18	5.2	2.2	.17	.00
10	.81	1.3	4.2	132	47	53	142	16	4.0	1.9	.12	.00
11	1.3	1.2	7.1	86	45	499	125	15	3.0	1.6	.18	.00
12	1.0	1.1	4.8	61	46	216	123	13	2.5	1.4	.13	.00
13	.80	1.1	5.8	51	50	149	126	11	2.1	1.1	.07	.03
14	.64	1.2	7.7	42	94	122	131	9.8	1.8	.88	.05	.02
15	.51	1.1	6.8	37	72	106	124	8.5	2.0	.73	.03	.00
16	.46	1.2	5.3	36	61	120	104	8.0	3.0	.62	.02	.00
17	.38	1.2	4.6	36	55	172	93	7.2	3.0	.51	.00	.00
18	.37	1.2	4.2	36	54	116	79	6.3	7.6	.44	.00	.00
19	.40	1.2	4.7	35	55	333	71	5.6	39	.36	.00	.00
20	.45	1.3	5.3	34	49	769	65	8.2	15	.36	.00	.01
21	.40	1.5	7.6	29	45	282	63	11	8.5	.58	.00	.55
22	.34	1.7	9.7	35	43	203	56	8.7	41	.47	.00	.54
23	.26	1.7	8.0	367	41	163	50	7.5	31	.36	.00	.39
24	.19	1.7	6.7	253	39	138	56	7.0	15	.28	.00	.61
25	.19	3.7	5.8	156	37	121	69	8.1	9.0	.21	.00	.50
26	.20	2.6	4.9	116	35	116	54	11	7.5	.17	.00	.65
27	.19	3.5	4.5	94	115	106	46	13	5.5	.13	.04	.65
28	.19	2.8	4.3	84	102	91	94	9.8	6.1	.11	.11	.51
29	.20	2.3	3.9	100	74	76	68	7.2	71	.14	.12	.31
30	.15	1.9	3.7	127	---	82	52	5.4	60	.16	.11	.24
31	.12	---	3.5	115	---	75	---	4.4	---	.16	.08	---
MEAN	.31	3.73	4.63	73.9	60.3	147	231	15.4	14.2	3.01	.24	.17
MAX	1.3	49	9.7	367	115	769	1770	44	71	29	2.4	.65
MIN	.00	1.1	1.5	3.1	35	38	46	4.4	1.8	.11	.00	.00
CFSM	.01	.07	.09	1.48	1.21	2.95	4.62	.31	.28	.06	.00	.00
IN.	.01	.08	.11	1.70	1.30	3.40	5.15	.36	.32	.07	.01	.00

TENNESSEE RIVER BASIN

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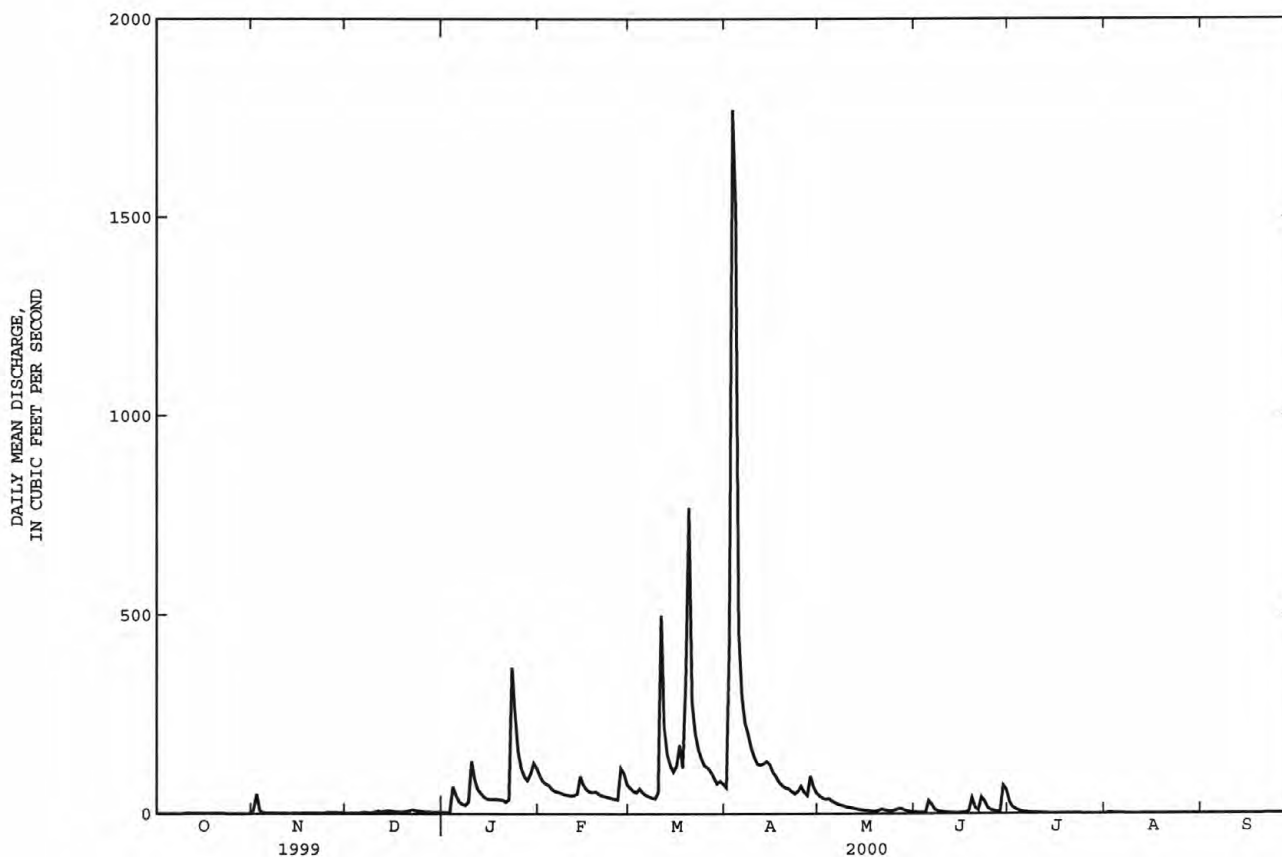
03573182 SCARHAM CREEK NEAR MCVILLE, AL--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.16	2.92	29.2	150	170	138	147	43.7	62.3	101	2.22	.17
MAX	.31	3.73	53.8	227	283	147	231	71.9	110	199	4.21	.17
(WY)	2000	2000	1999	1999	1999	2000	2000	1999	1999	1999	1999	2000
MIN	.000	2.11	4.63	73.9	60.3	129	63.8	15.4	14.2	3.01	.24	.16
(WY)	1999	1999	2000	2000	2000	1999	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL MEAN	90.4		45.9		70.1	
HIGHEST ANNUAL MEAN					94.4	
LOWEST ANNUAL MEAN					45.9	
HIGHEST DAILY MEAN	2060		1770		2060	
LOWEST DAILY MEAN	.00		.00		.00	
ANNUAL SEVEN-DAY MINIMUM	.00		.00		.00	
INSTANTANEOUS PEAK FLOW			3640		4260	
INSTANTANEOUS PEAK STAGE			11.79		12.48	
INSTANTANEOUS LOW FLOW			a.00		.00	
ANNUAL RUNOFF (CFSM)	1.81		.92		1.40	
ANNUAL RUNOFF (INCHES)	24.54		12.51		19.05	
10 PERCENT EXCEEDS	199		115		156	
50 PERCENT EXCEEDS	22		5.3		7.6	
90 PERCENT EXCEEDS	.20		.03		.00	

a Many days.



TENNESSEE RIVER BASIN

03575500 TENNESSEE RIVER AT WHITESBURG, AL

LOCATION.--Lat 34°34'18", long 86°33'29", Madison County, Hydrologic Unit 06030002, at Whitesburg, on right bank 2,500 ft upstream from Aldridge Creek, 3,000 ft upstream from Clement C. Clay Bridge on U.S. Highway 231, 11.0 mi south of Huntsville, 15.1 mi downstream from Guntersville Dam, and at mile 333.9.

DRAINAGE AREA.--25,610 mi².

PERIOD OF RECORD.--October 1924 to September 1997. October 1997 to September 1999 (gage height only). Monthly discharge only for some periods, published in WSP 1306. October 1999 to September 2000 (discharge). Prior to October 1936, published as "at Decatur." Gage-height records collected in this vicinity since 1875 (fragmentary prior to April 1909) are contained in files of U.S. Army Corps of Engineers and in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.00 ft above sea level. Oct. 1, 1924, to Dec. 2, 1926, nonrecording gage, and Dec. 3, 1926, to Sept. 30, 1936, water-stage recorder, at site 28.3 mi downstream at datum 14.70 ft lower. Oct. 1, 1936, to Sept. 30, 1960, water-stage recorder 830 ft downstream at same datum. Since Mar. 4, 1937, auxiliary gage is located 28.3 mi downstream.

REMARKS.--Flow almost completely regulated. Records fair, except for estimated discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 323,000 ft³/s, Mar. 19, 1973, gage height 26.06 ft. Maximum gage height (since October 1997), 16.41 ft, Jan. 9, 1998; minimum gage height (since October 1997), 1.24 ft, Mar. 6, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 193,000, Apr 5; maximum gage height, 18.17 ft; minimum discharge, 0 ft³/s, many days, minimum gage height 1.24 ft, Mar. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28800	e20400	37500	e6040	18800	30000	6500	19000	25300	8390	24100	27200
2	8290	e25000	30700	e7220	19400	28700	23300	23200	21600	11700	36500	22900
3	8490	e31800	28200	e13700	20200	24700	71000	24500	7820	11400	30600	17800
4	13400	e32000	6870	e11400	22000	14000	151000	17900	4750	21400	19200	10300
5	22000	e29200	15700	e10500	8950	11200	189000	25800	13000	18400	29000	10500
6	e12200	e13100	20000	e17000	8040	9250	162000	7210	5370	25100	20000	20700
7	e21600	e15400	26500	e22400	13200	23400	95000	4960	26000	7400	29500	4710
8	e22400	e25600	34700	e5910	13000	14300	76400	22500	19700	10200	34500	e4460
9	e12200	e25000	11400	e7830	9510	13700	70500	21300	17400	9280	39400	e9020
10	e14200	24500	25500	e18600	9800	11900	63900	14900	5240	19600	e35500	e14700
11	e28900	18400	8440	e29700	10200	15100	47100	15200	4740	25800	e34300	e22000
12	e32400	16800	e2250	e33400	8380	18700	36100	23600	22800	32000	28400	37500
13	e29300	13300	e16800	e31000	9710	31200	34200	12700	23800	20900	17100	26100
14	e19500	12200	e27800	e31100	28500	34600	35200	7620	22800	14100	29900	26400
15	e15000	26500	e26400	e28100	38100	33900	35600	5470	20500	17100	39600	22300
16	e9590	33900	e29700	e24600	36700	34100	34800	4100	23400	11900	41600	e9510
17	e12900	33500	e24200	e22200	41400	35200	37200	3350	5860	17300	32100	e9680
18	e18900	14800	e13300	e28600	47200	26200	34800	6800	6900	22300	34300	e21300
19	e17900	13400	e8080	e30300	48200	20200	32900	7440	9590	22700	22300	e18200
20	e19400	11300	e17400	e27800	32000	41000	33200	8120	15700	26000	8290	22600
21	e26600	7430	25800	34300	35900	55100	17600	7920	23400	9890	15300	22600
22	e22500	28900	32300	15300	26100	65600	13400	6960	13500	16600	30100	10600
23	e11500	25500	7910	10100	23700	54600	14300	9630	12400	11100	31800	19900
24	e9840	23900	21700	31100	21600	38900	33300	15800	9430	12600	36000	9950
25	e22900	8420	e7260	37500	23500	33400	38000	24300	11100	15900	29600	28200
26	e23700	13300	e5060	39800	14300	27700	34100	19000	19800	23800	25400	22100
27	e24500	10300	e16600	42400	10200	28600	33300	7440	17600	25900	6370	9110
28	e23200	14800	e11400	29300	25700	32300	33000	8690	23000	23800	25400	11400
29	e24400	32500	e12800	11300	29900	24100	15300	12200	13500	19100	27500	21400
30	e8530	36700	e14200	8620	---	15600	11200	5550	8580	15200	28900	28600
31	e9100	---	e4410	18900	---	14900	---	22900	---	22500	28600	---
TOTAL	574140	637850	570880	686020	654190	862150	1513200	416060	454580	549360	871160	541740
MEAN	18520	21260	18420	22130	22560	27810	50440	13420	15150	17720	28100	18060
MAX	32400	36700	37500	42400	48200	65600	189000	25800	26000	32000	41600	37500
MIN	8290	7430	2250	5910	8040	9250	6500	3350	4740	7400	6370	4460

e Estimated

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TENNESSEE RIVER BASIN

035825882 CANE CREEK NEAR HOWELL, TN

LOCATION.--Lat 35°13'22", long 86°37'23", Lincoln County, Hydrologic Unit 06030003, on upstream left bank at bridge, on Brown Teal, Sawyer Road, 1 mi southeast of Howell.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Data logger. Datum of gage is 680.00 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	0100	4,510	16.33	Apr 3	2330	*4,600	*16.43
Apr 3	0245	2,700	12.60	Jun 22	0530	2,760	12.77

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.2	5.9	70	59	68	93	11	25	15	.25
2	.00	.72	.96	5.7	56	50	347	83	7.8	19	4.1	.23
3	.00	7.8	.88	16	48	44	2710	75	6.2	15	2.5	.21
4	.00	2.6	.80	577	43	48	1750	81	5.5	12	2.1	.20
5	.00	1.2	.78	125	36	47	515	67	7.9	9.9	1.8	.16
6	.00	.75	.75	72	31	40	304	59	7.2	8.5	1.4	.15
7	.00	.64	.65	51	29	36	214	53	5.3	10	1.1	.13
8	.00	.59	.64	41	27	33	240	48	4.0	9.1	.91	.12
9	.00	.50	.65	85	24	31	189	43	3.3	6.4	.73	.12
10	.00	.53	17	114	23	33	154	43	2.9	4.9	.68	.11
11	.00	.61	27	70	22	408	137	39	2.5	3.9	.60	.11
12	.00	.63	7.7	52	46	177	387	35	2.3	3.3	.46	11
13	.00	.61	404	44	53	112	500	31	2.0	3.1	.40	6.3
14	.00	.59	305	35	429	83	529	26	2.1	3.2	.38	1.5
15	.00	.52	83	30	186	67	339	23	2.5	2.6	.33	1.0
16	.00	.44	48	28	115	193	240	20	4.5	2.1	.29	.76
17	.00	.44	34	26	83	230	192	18	7.3	1.7	.28	.56
18	.00	.43	26	25	87	122	156	16	275	1.5	.24	.43
19	.00	.42	21	23	513	2050	131	16	179	1.5	.23	.39
20	.00	.52	18	21	198	2040	116	18	96	6.1	.23	.37
21	.00	.61	16	18	127	489	117	16	52	30	.21	.62
22	.00	.58	15	24	94	293	101	14	892	5.5	.21	.49
23	.00	.62	13	112	74	209	90	68	168	3.2	.21	.52
24	.00	.87	12	89	61	163	391	41	92	2.5	.21	.55
25	.00	1.1	10	64	53	134	395	29	169	2.0	.20	59
26	.00	2.0	9.2	50	46	117	231	26	278	1.7	.18	31
27	.00	4.4	8.7	40	101	113	171	20	78	1.4	.44	7.4
28	.00	3.2	8.1	35	94	104	167	60	72	1.2	.46	2.7
29	.00	2.0	7.4	53	70	88	129	36	51	1.2	.33	1.6
30	.00	1.5	6.8	120	---	81	107	22	35	1.3	.33	1.1
31	.00	---	6.2	90	---	74	---	16	---	1.4	.27	---
MEAN	.000	1.25	35.8	69.1	97.9	251	371	39.8	84.0	6.46	1.19	4.30
MAX	.00	7.8	404	577	513	2050	2710	93	892	30	15	59
MIN	.00	.00	.64	5.7	22	31	68	14	2.0	1.2	.18	.11
CFSM	.00	.02	.45	.88	1.24	3.18	4.70	.51	1.07	.08	.02	.05
IN.	.00	.02	.52	1.01	1.34	3.67	5.25	.58	1.19	.09	.02	.06

TENNESSEE RIVER BASIN

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035825882 CANE CREEK NEAR HOWELL, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.97	1.68	121	438	153	264	218	106	48.4	7.01	.65	2.15
MAX	3.95	2.10	206	807	210	277	371	172	84.0	7.56	1.19	4.30
(WY)	1999	1999	1999	1999	1999	1999	2000	1999	2000	1999	2000	2000
MIN	.000	1.25	35.8	69.1	97.9	251	65.1	39.8	12.7	6.46	.11	.000
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	1999	2000	1999	1999

SUMMARY STATISTICS

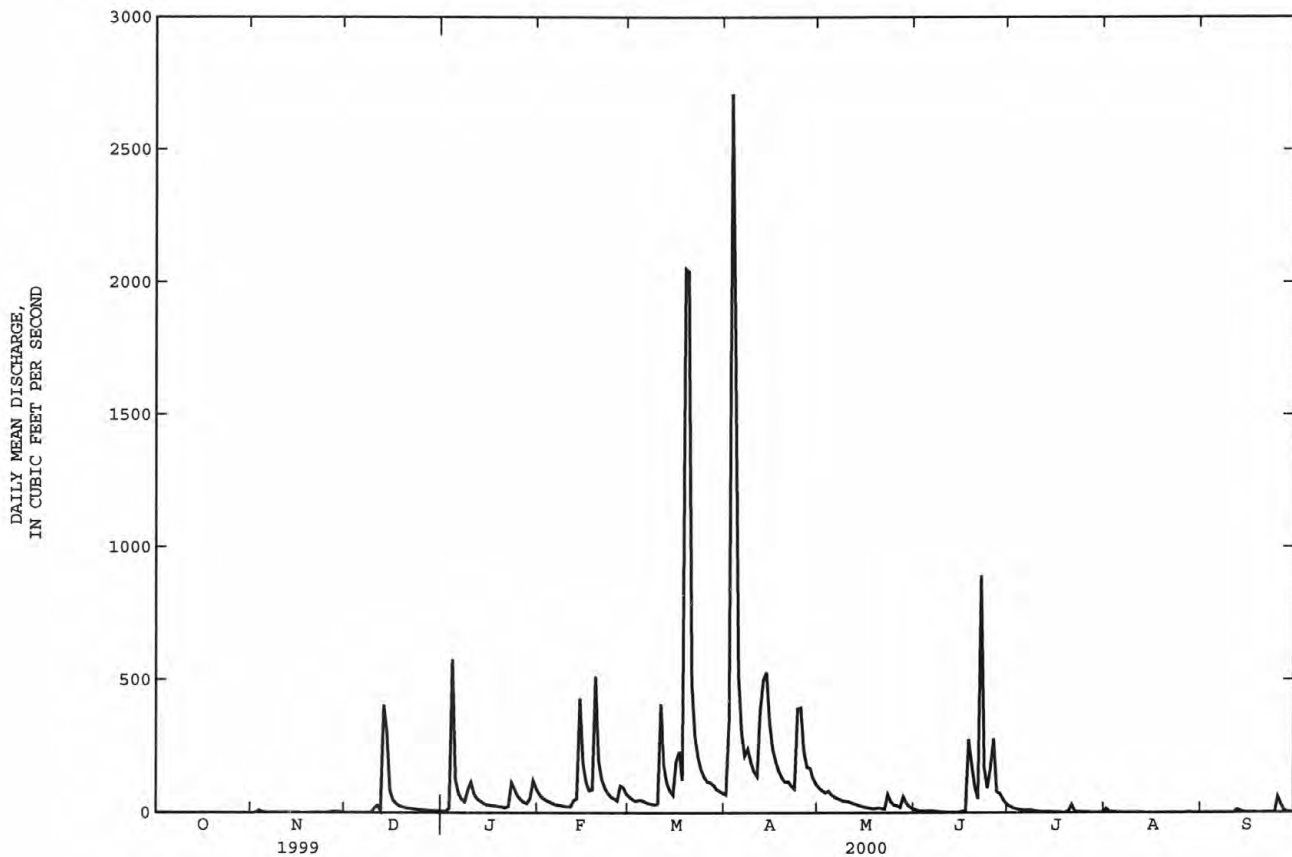
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL MEAN	133		79.6		114	
HIGHEST ANNUAL MEAN					148	1999
LOWEST ANNUAL MEAN					79.6	2000
HIGHEST DAILY MEAN	6050	Jan 23	2710	Apr 3	6050	Jan 23 1999
LOWEST DAILY MEAN	.00	Aug 29	.00	Oct 1	.00	Aug 29 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 29	a.00	Oct 1	.00	Aug 29 1999
INSTANTANEOUS PEAK FLOW			4600	Apr 3	16200	Jan 23 1999
INSTANTANEOUS PEAK STAGE			16.43	Apr 3	20.19	Jan 23 1999
INSTANTANEOUS LOW FLOW			a.00	Oct 1	.00	Aug 29 1999
ANNUAL RUNOFF (CFSM)	1.69		1.01		1.44	
ANNUAL RUNOFF (INCHES)	22.91		13.75		19.60	
10 PERCENT EXCEEDS	271		178		231	
50 PERCENT EXCEEDS	10		12		14	
90 PERCENT EXCEEDS	.00		.13		.04	

a Many days.



TENNESSEE RIVER BASIN

035825882 CANE CREEK NEAR HOWELL, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
NOV 17...	1100	.43	395	7.8	9.5	763	--	5.6	49	140	200	
DEC 13...	1100	356	371	8.1	11.5	751	72	8.8	82	K26000	180	
JAN 10...	1030	117	370	8.2	11.0	743	10	10.1	94	2100	190	
FEB 14...	0845	739	290	8.0	11.0	744	190	9.3	86	20000	150	
MAR 19...	1245	2450	192	7.8	10.5	745	400	9.2	84	28000	92	
APR 19...	1430	130	328	8.5	16.5	760	4	--	--	K17	170	
MAY 09...	1300	43	370	8.1	23.0	755	3	7.0	83	K85	180	
JUN 15...	1115	2.1	372	8.0	25.5	745	7	6.0	75	390	170	
JUL 14...	1130	3.1	367	8.0	28.0	743	6	4.8	63	1000	170	
AUG 16...	1400	.29	352	8.1	29.0	759	7	8.2	107	76	170	
SEP 13...	0915	3.4	263	7.9	23.0	759	25	3.2	38	K41000	120	
DATE		HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 17...	23	66.2	9.23	3.2	3	.1	3.9	220	180	E.2	9.1	
DEC 13...	27	59.5	7.03	3.0	3	.1	4.0	184	151	29.2	6.9	
JAN 10...	16	63.7	6.55	2.1	2	.1	1.7	207	170	18.5	6.0	
FEB 14...	22	49.9	5.48	2.1	3	.1	2.6	152	127	14.7	5.5	
MAR 19...	7	31.1	3.49	1.0	2	.0	2.6	104	85	6.3	2.3	
APR 19...	2	56.8	6.07	1.7	2	.1	.8	201	165	12.4	3.5	
MAY 09...	4	60.4	6.72	1.9	2	.1	1.2	213	177	13.6	4.1	
JUN 15...	23	56.7	6.75	2.4	3	.1	1.9	179	147	12.4	6.4	
JUL 14...	5	57.7	6.75	2.3	3	.1	2.2	204	167	11.8	6.3	
AUG 16...	18	56.5	6.94	2.7	3	.1	2.5	185	152	9.6	6.2	
SEP 13...	12	40.1	5.03	2.0	3	.1	5.3	133	109	9.6	5.5	

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

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035825882 CANE CREEK NEAR HOWELL, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS P) (00950)	SILICA, DIS- SOLVED AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV											
17...	.1	2.4	234	--	--	--	<.010	<.050	<.020	.43	.57
DEC											
13...	.1	3.6	227	218	.31	3.04	.043	3.08	.059	.61	1.5
JAN											
10...	.2	4.7	221	220	.30	3.25	.013	3.27	.020	.32	.37
FEB											
14...	.1	3.8	180	167	.24	1.59	.016	1.61	.082	.66	1.6
MAR											
19...	<.1	3.9	126	107	.17	.794	.010	.804	.204	.77	3.2
APR											
19...	.2	2.5	195	187	.27	--	<.010	.797	<.020	.10	.16
MAY											
09...	.1	2.0	206	198	.28	.540	.023	.563	.036	<.10	.32
JUN											
15...	.2	3.4	210	181	.29	--	<.010	.373	.048	.29	.37
JUL											
14...	.2	3.2	205	193	.28	--	<.010	.433	.039	.26	.40
AUG											
16...	.2	4.7	197	181	.27	--	<.010	.064	.034	.26	.40
SEP											
13...	.2	3.9	159	142	.22	.787	.034	.821	.029	.60	.81

DATE	NITRO- GEN, TOTAL (MG/L AS P) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
17...	--	.286	.231	.192	20	125	6.2	.5	2	92
DEC										
13...	4.5	.799	.271	.247	20	10	5.4	>2.5	102	93
JAN										
10...	3.6	.307	.225	.201	E10	11	3.2	.3	9	94
FEB										
14...	3.2	1.22	.400	.329	20	8	6.3	5.3	222	91
MAR										
19...	4.0	2.79	.430	.402	30	15	6.6	>5.0	597	82
APR										
19...	.96	.133	.153	.128	<10	9	1.6	<.2	3	76
MAY										
09...	.89	.202	.211	.169	<10	18	2.0	<.2	--	--
JUN										
15...	.74	.299	.240	.216	<10	29	2.4	.3	15	84
JUL										
14...	.84	.161	.244	.212	<10	23	2.4	.5	7	85
AUG										
16...	.47	.288	.237	.221	<10	11	2.7	.4	5	79
SEP										
13...	1.6	.767	.629	.569	30	12	7.1	1.4	22	95

E--Estimated

TENNESSEE RIVER BASIN

03584600 ELK RIVER AT PROSPECT, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 35°00'51", long 86°59'41", Giles County, Hydrologic Unit 06030004, on right bank 25 ft upstream from county road bridge, 800 ft above abandoned L and N Railroad bridge, 0.4 mi above Ford Creek, 0.8 mi south of Prospect, 2.98 mi upstream from Tennessee-Alabama State line, and at mile 36.5.

DRAINAGE AREA.--1,805 mi², approximately.

PERIOD OF RECORD.--January 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT												
05...	1015	204	231	8.1	19.5	755	10	6.7	74	70	59	100
NOV												
16...	1400	921	224	8.2	12.0	762	8	8.9	83	--	130	110
DEC												
15...	1115	3470	248	7.8	12.0	750	40	8.4	79	--	1500	120
JAN												
04...	1215	5890	184	8.1	13.0	763	660	8.1	77	--	K100000	85
12...	1200	2130	286	8.1	10.0	753	22	9.5	85	--	E1500	150
FEB												
14...	1600	4930	272	8.1	11.0	760	98	9.2	84	--	8800	130
MAR												
20...	1300	23000	173	8.0	11.5	760	54	8.4	77	--	11000	81
APR												
03...	1330	19300	95	7.8	16.0	743	110	6.1	62	--	--	91
18...	1030	3400	258	7.9	15.5	750	11	7.2	73	--	460	130
MAY												
01...	1145	1840	257	8.1	16.0	757	6	8.9	91	--	52	120
JUN												
14...	1030	1070	265	8.3	26.5	751	20	6.8	86	--	180	120
23...	0945	5490	208	7.8	21.0	750	120	7.1	81	--	4300	98
JUL												
11...	1030	371	282	8.2	29.5	747	9	6.5	87	--	K63	120
AUG												
15...	1045	242	261	8.2	23.5	766	11	7.0	82	--	K61	100
SEP												
14...	0915	1860	221	7.9	24.0	747	99	5.5	67	--	4000	96

DATE	HARD- NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WAT DIS TOT IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT												
05...	6	33.8	4.31	4.1	8	.2	2.0	117	96	8.7	6.9	.1
NOV												
16...	5	35.7	4.15	2.6	5	.1	1.6	124	101	8.1	5.0	<.1
DEC												
15...	17	41.6	4.50	2.2	4	.1	2.2	129	106	14.5	5.0	<.1
JAN												
04...	6	28.7	3.20	1.5	4	.1	2.8	96	79	10.9	3.6	<.1
12...	13	49.8	5.21	2.0	3	.1	1.6	162	132	13.6	5.1	.2
FEB												
14...	10	45.1	4.67	2.3	4	.1	1.7	149	122	15.0	4.8	.1
MAR												
20...	7	27.6	2.99	1.1	3	.1	1.9	90	74	6.7	2.1	<.1
APR												
03...	11	31.2	3.26	1.3	3	.1	1.9	98	80	6.6	2.4	<.1
18...	2	44.2	4.34	1.7	3	.1	1.1	154	126	9.8	3.5	.1
MAY												
01...	--	40.2	4.21	2.0	4	.1	1.0	146	120	9.3	5.3	<.1
JUN												
14...	8	40.2	4.71	3.3	6	.1	1.6	136	111	10.9	6.1	.2
23...	9	33.2	3.62	1.8	4	.1	2.5	108	88	6.6	4.0	.3
JUL												
11...	8	40.3	4.32	2.4	4	.1	2.0	134	110	9.1	5.0	<.1
AUG												
15...	9	33.7	4.09	3.1	6	.1	1.5	112	92	7.2	5.1	<.1
SEP												
14...	8	32.0	3.78	3.4	7	.2	3.2	107	88	10.2	5.3	.1

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

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03584600 ELK RIVER AT PROSPECT, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 05...	3.6	130	123	.18	--	<.010	.302	<.020	.18	.31	.62	.129
NOV 16...	3.9	121	124	.16	--	<.010	.435	<.020	.12	.25	.69	.090
DEC 15...	4.6	153	148	.21	2.14	.024	2.17	.032	.33	.61	2.8	.451
JAN 04...	2.6	116	106	.16	.941	.013	.954	.065	.41	2.5	3.4	2.15
12...	4.7	171	172	.23	--	<.010	2.12	<.020	.25	.27	2.4	.121
FEB 14...	3.3	165	157	.22	1.33	.010	1.34	.046	.33	.99	2.3	.806
MAR 20...	4.6	112	96	.15	--	<.010	.925	.080	.38	1.1	2.0	1.03
APR 03...	4.7	116	104	.16	--	<.010	.744	.037	.37	.89	1.6	.885
18...	5.3	151	152	.21	--	<.010	1.21	<.020	E1.0	.18	1.4	.130
MAY 01...	2.7	145	140	.20	--	<.010	.733	<.020	.14	.16	.89	.079
JUN 14...	3.0	147	139	.20	--	<.010	.454	<.020	.22	.46	.91	.188
23...	4.0	130	113	.18	.713	.010	.723	.026	.32	.81	1.5	.897
JUL 11...	4.2	151	137	.21	--	<.010	.700	<.020	.19	.31	1.0	.181
AUG 15...	3.1	124	115	.17	--	<.010	.410	<.020	.18	.26	.67	.118
SEP 14...	4.0	125	119	.17	.864	.016	.880	.045	.37	.81	1.7	.705

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)
OCT 05...	.088	.063	<10	8	2.1	.4	--	--	--	--	--
NOV 16...	.057	.043	20	30	2.0	.3	--	--	--	--	--
DEC 15...	.192	.184	E10	5	3.7	1.2	--	--	--	--	--
JAN 04...	.288	.255	10	<2	5.3	>5.0	--	--	--	--	--
12...	.153	.137	<10	13	2.4	.7	--	--	--	--	--
FEB 14...	.225	.174	20	7	3.7	1.1	<.002	<.002	.027	<.002	<.002
MAR 20...	.268	.253	20	9	4.6	3.5	<.002	<.002	.017	<.002	<.002
APR 03...	.264	.242	20	5	4.7	2.0	<.002	.063	.865	<.002	<.002
18...	.156	.129	<10	11	1.3	.2	<.002	<.002	.082	<.002	<.002
MAY 01...	.110	.092	<10	12	1.4	<.2	--	--	.115	--	--
JUN 14...	.126	.105	<10	E1	2.0	.8	<.002	<.002	.209	<.002	<.002
23...	.266	.229	<10	E2	3.7	>4.2	<.002	<.002	.263	<.002	<.002
JUL 11...	.164	.138	<10	11	2.3	.4	<.002	<.002	.145	<.002	<.002
AUG 15...	.089	.071	<10	17	1.8	.3	<.002	<.002	.316	<.002	<.002
SEP 14...	.293	.249	E10	2	3.7	1.9	<.002	<.002	.136	<.002	<.002

E--Estimated

TENNESSEE RIVER BASIN

03584600 ELK RIVER AT PROSPECT, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.004	<.004	E.013	<.002	<.001	<.003	<.004	<.005	<.004	.007	<.006
MAR 20...	<.004	<.004	E.009	.005	<.001	<.003	<.004	<.005	<.004	.006	<.006
APR 03...	.008	<.010	E.025	.013	<.001	<.003	<.004	<.005	<.004	.046	<.006
APR 18...	<.004	<.004	E.034	<.002	<.001	<.003	<.004	<.005	<.004	.010	<.006
MAY 01...	--	--	E.044	--	--	--	--	--	--	--	--
JUN 14...	<.004	<.004	E.074	<.002	<.001	<.003	<.004	<.005	<.004	.011	<.006
JUN 23...	<.004	<.004	E.072	<.002	<.001	<.003	<.004	.010	.008	.053	<.006
JUL 11...	<.004	<.004	E.078	<.002	<.001	<.003	<.010	<.005	<.004	.011	<.006
AUG 15...	<.004	<.004	E.097	<.002	<.001	<.003	<.004	<.005	<.004	.018	<.006
SEP 14...	<.004	<.004	E.053	E.003	<.020	<.003	<.004	<.005	.036	.027	<.006
DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.004	<.007	E.007	.010	<.002	<.003	<.003	<.002	<.003	<.017	<.004
MAR 20...	<.004	<.007	E.009	.182	<.002	E.004	<.003	<.002	<.003	<.017	<.004
APR 03...	<.004	<.007	E.012	.084	<.002	<.003	<.003	<.002	<.003	<.017	<.004
APR 18...	<.004	<.007	E.005	.086	<.002	<.003	<.003	<.002	<.003	<.017	<.004
MAY 01...	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004
JUN 23...	<.004	<.007	E.013	.007	<.002	<.003	<.003	<.002	<.003	<.017	<.004
JUL 11...	<.004	<.007	E.011	E.005	<.002	<.003	<.003	<.002	<.003	<.017	<.004
AUG 15...	<.004	<.007	E.005	.006	<.002	<.003	<.003	<.002	<.003	<.017	<.004
SEP 14...	<.004	<.007	.021	.005	<.002	E.11	<.003	<.002	<.003	<.017	<.004

E--Estimated

TENNESSEE RIVER BASIN

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03584600 ELK RIVER AT PROSPECT, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT 05...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAR 20...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
APR 03...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
APR 18...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAY 01...	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUN 23...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUL 11...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
AUG 15...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
SEP 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 05...	--	--	--	--	--	--	--	--	--	16	93
NOV 16...	--	--	--	--	--	--	--	--	--	8	79
DEC 15...	--	--	--	--	--	--	--	--	--	55	92
JAN 04...	--	--	--	--	--	--	--	--	--	478	91
JAN 12...	--	--	--	--	--	--	--	--	--	32	84
FEB 14...	<.003	<.004	<.013	.023	<.007	<.013	<.001	<.002	<.002	239	94
MAR 20...	<.003	<.004	<.013	.048	<.007	<.013	<.001	<.002	<.002	152	83
APR 03...	<.003	<.004	<.013	.059	<.007	<.013	<.001	<.002	<.002	149	86
APR 18...	<.003	<.004	<.013	.022	<.007	<.013	<.001	<.002	<.002	15	74
MAY 01...	--	--	--	E.012	--	--	--	--	--	--	--
JUN 14...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	40	93
JUN 23...	<.003	<.004	<.013	.015	<.007	<.013	<.001	<.002	<.002	--	--
JUL 11...	<.003	<.004	<.013	.028	<.007	<.013	<.001	<.002	<.002	11	88
AUG 15...	<.003	<.004	<.013	.011	<.007	<.013	<.001	<.002	<.002	11	90
SEP 14...	<.003	<.004	<.013	.023	<.007	<.013	<.001	<.002	<.002	112	97

E--Estimated

TENNESSEE RIVER BASIN

03589500 TENNESSEE RIVER AT FLORENCE, AL

LOCATION.--Lat 34°47'13", long 87°40'12", Lauderdale County, Hydrologic Unit 06030005, on right bank at lower end of Patton Island, 137 ft upstream from Southern Railway bridge, 700 ft upstream from O'Neal Bridge on U.S. Highway 72, 1.1 mi south of Florence Post Office, 1.7 mi upstream from Cypress Creek, 2.7 mi downstream from Wilson Dam, and at mile 256.7.

DRAINAGE AREA.--30,810 mi², approximately.

PERIOD OF RECORD.--November 1871 to September 1894 (gage height only), October 1894 to September 1997. October 1997 to September 1999 (gage height only), October 1999 to September 2000 (discharge).

REVISED RECORDS.--WSP 473: 1897(M). WSP 1306: 1914(M), 1936 (monthly runoff). WSP 1436: 1897, 1899, 1916.

GAGE.--Water-stage recorder. Datum of gage is 401.12 ft above sea level. Prior to Apr. 1, 1926, several National Weather Service staff gages at or near Southern Railway bridge 137 ft downstream at same datum. Apr. 1, 1926, to Mar. 11, 1958, water-stage recorder on left bank at lower end of old lock and dam, 1,400 ft upstream at same datum. Since Oct. 1, 1938, auxiliary water-stage recorder 15.2 mi downstream.

REMARKS.--Records fair, except for estimated discharges, which are poor. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station. Flow now almost completely regulated.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 530,000 ft³/s, Mar. 17, 1973; maximum gage height, 32.50 ft, Mar. 19, 1897; maximum gage height (since October 1997), 21.15 ft, Apr. 23, 1998; minimum gage height (since October 1997), 8.09 ft, Dec. 6, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245,000 ft³/s, Apr. 4, gage height 21.46 ft; minimum gage height, 7.47 ft, Dec. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27700	31700	44500	14600	35200	44100	18200	38300	45000	21700	39700	35200
2	20100	52400	41000	20700	36600	49600	41200	38800	26100	19400	40200	35900
3	19900	68000	17700	18500	38000	45200	130000	32600	29100	30300	40900	36600
4	30700	41000	16400	24400	38200	40000	219000	33100	22100	21100	41100	18100
5	24600	33600	18000	e24800	21500	19400	224000	44200	22700	29500	40500	22100
6	16900	23000	30700	e30000	18400	33800	225000	21900	22200	38300	29700	33800
7	28700	18200	55400	e30600	26900	29600	132000	17700	33200	25400	47800	17400
8	26600	35200	50100	e17500	27000	27500	87300	40600	29100	22600	39400	17200
9	26000	34600	20200	e13100	26800	23800	86600	35300	23300	27300	59500	22900
10	23400	29700	34100	e29800	19900	25500	88800	26700	32000	31800	34000	26500
11	37800	27700	17600	49600	20300	29600	78000	30700	22800	48800	36600	40900
12	39700	25500	18800	46500	21100	31700	67300	45300	28800	35400	35100	48300
13	44100	23100	57100	49200	17900	42500	62000	25400	29400	27200	26100	45900
14	27200	22500	50800	47600	32600	50000	68300	21400	31500	34500	55800	51300
15	24000	41900	47500	43900	51600	49200	45400	18100	25000	21600	49200	30400
16	17200	40100	46300	28600	52500	53100	63000	19200	22100	23900	53700	17900
17	18900	46600	39500	33400	57800	45300	64700	25200	31600	32700	37800	19100
18	23500	37300	23600	37500	68400	42000	55200	21600	21200	29600	35100	31500
19	25100	24200	23500	52300	44300	23500	53600	21200	40900	32100	43500	32200
20	25600	21700	39700	57300	39100	70200	52800	18700	21200	32900	21700	33300
21	30900	19100	38300	53800	66900	74700	31400	21300	36800	28500	38900	31900
22	40000	33700	44900	37000	43900	94300	29400	21700	35600	21600	47200	21300
23	21700	35000	35800	19500	31200	88600	25000	24300	25400	20500	44300	23500
24	17100	33600	35400	45000	37100	62700	73600	32300	22000	37100	43100	20400
25	33400	19000	23000	50100	42400	49500	63400	25600	23100	21300	43900	34300
26	34500	19600	19800	57600	38700	45300	49500	23600	34100	32100	34500	27800
27	32500	18600	28700	54200	21500	58200	54000	31100	30700	30800	20300	19600
28	30700	22700	28400	45600	35700	63300	42400	24000	25700	40300	34400	24200
29	32100	44900	22300	20900	39000	59900	30200	24600	27500	37700	50200	20000
30	16100	46900	24600	25100	---	30300	26700	19300	26000	23900	37200	25900
31	16900	---	15900	33100	---	30500	---	26000	---	50300	38100	---
TOTAL	833600	971100	1009600	1111800	1050500	1432900	2288000	849800	846200	930200	1239500	865400
MEAN	26890	32370	32570	35860	36220	46220	76270	27410	28210	30010	39980	28850
MAX	44100	68000	57100	57600	68400	94300	225000	45300	45000	50300	59500	51300
MIN	16100	18200	15900	13100	17900	19400	18200	17700	21200	19400	20300	17200

e Estimated

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TENNESSEE RIVER BASIN

03593500 TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'26", Hardin County, Hydrologic Unit 06040001, on right bank at upstream side of bridge on U.S. Highway 64, at Savannah, 16.8 mi downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi² approximately.

PERIOD OF RECORD.--September 1930 to current year. Gage-height records collected in this vicinity since June 1905, are in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1306: 1936 (monthly runoff). WSP 2110: 1966. WRD TN-73-1: 1973-96. WRD TN- 74-1: 1973. WRD TN-85-1: 1985. WRD TN-90-1: 1989.

GAGE.--Data collection platform. Datum of gage is 350.06 ft above sea level (Levels by Tennessee Valley Authority). Prior to Oct. 1, 1992, at datum 50.06 ft lower, prior to Apr. 7, 1945, at datum 8.45 ft lower. Oct. 1, 1948 to Apr. 13, 1978 and Oct. 1, 1989 to present, auxiliary water-stage recorder on downstream end of lockwall in lower pool at Pickwick Landing Dam Apr. 13, 1978 to Sept. 30, 1989, auxiliary water-stage recorder over tailwater elevation well adjacent to the powerhouse which is an integral part of Pickwick Landing Dam, both sites 16.8 mi. upstream from base gage at same datum. Apr. 5, 1937, to Jan. 31, 1939, auxiliary nonrecording gage 4.0 mi downstream and Feb. 1, 1939, to Sept. 30, 1948, water-stage recorder 4.3 mi downstream from base gage at same datum.

REMARKS.--Records good, except for estimated discharges, which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 243) and Water Resources Data for adjoining states). Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks, discharge, 450,000 ft³/s, from rating curve extended above 320,000 ft³/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft³/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 219,000 ft³/s, Apr. 5; maximum gage height, 28.18 ft, Apr. 7; minimum daily discharge, 1,400 ft³/s, Sept. 17, minimum gage height, 3.93 ft, Jan. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27900	26800	38500	e13000	26900	e36200	11600	25400	38100	e8800	43700	26300
2	14500	44500	40300	e13900	30800	e41000	14000	34700	14000	e8400	37400	18300
3	17000	75600	23400	e14300	31000	e42000	71100	34200	3240	e8200	42600	20400
4	32300	49800	14100	e14000	34400	e41700	175000	30900	5180	e9400	22600	11100
5	15700	25400	15500	e15600	13500	e10000	211000	32400	21300	40900	18500	25200
6	11400	21100	17900	24200	9470	e30100	205000	24100	16000	e35200	8610	9010
7	20700	12300	42500	25000	20100	e20500	197000	8640	16900	e8800	48600	8620
8	16400	32400	50600	19100	e19000	25400	134000	19700	25000	e8400	e47500	e9800
9	26500	29000	20800	17600	e19300	19300	98300	34300	28000	e8600	e45000	e9600
10	20700	26800	23700	38600	e9500	14300	89700	33600	5760	10700	e41700	e13000
11	e34500	20200	20400	58400	e9300	14500	86100	21100	7710	42300	e25000	e38000
12	e39000	18800	14000	43800	e10000	14800	85300	32400	13900	38400	e27700	e58500
13	e42000	17200	39500	35700	e9700	31600	73100	e16500	28500	29200	13200	e56000
14	24100	16700	40900	45400	e23000	44500	67200	e9800	16200	21100	41000	42500
15	20200	35100	43300	39900	36000	44300	62900	e9200	23700	10500	44700	23400
16	9940	37200	47900	29800	51100	47200	45500	e9100	18000	11200	31700	9440
17	12400	39200	44000	27300	52800	41400	e58000	e9000	e16500	21900	41800	1400
18	21000	36900	21700	25900	58800	29800	52600	e9100	e16300	27900	44000	21100
19	18000	23800	14900	37200	55300	22500	40000	e9200	e17000	23700	15600	27500
20	18600	19100	30400	53100	36600	41300	45300	e9000	18300	33800	9840	24000
21	26100	13900	40700	59200	e45000	58400	22800	e9400	35400	8550	36100	26800
22	25200	34900	e36000	31800	44200	57600	11900	11400	41100	e8800	23900	11300
23	17100	28900	e34000	11400	34000	71800	6020	11600	e9000	e9000	40600	16100
24	11800	26800	e26000	31200	e42000	73300	32400	16100	14900	e8600	35600	9420
25	22400	15100	19300	43800	e44000	62900	58300	20700	e8700	e11500	54900	10500
26	e28200	13500	16000	55200	35600	56000	60800	21700	e8900	e33000	16000	24600
27	e29000	16100	18500	58300	e14000	57200	59400	16400	30700	e42000	9310	10400
28	e30100	16700	22500	51100	e35000	66000	49000	12300	22800	e33000	41900	12000
29	e32000	38500	14900	21700	e37200	66200	32200	17300	19900	e9400	41100	23200
30	12200	43100	14100	14400	---	38800	15400	1440	e9800	e9300	33300	14500
31	12600	---	14600	19500	---	11000	---	30800	---	34200	24900	---
TOTAL	689540	855400	860900	989400	887570	1231600	2170920	581480	550790	614750	1008360	611990
MEAN	22240	28510	27770	31920	30610	39730	72360	18760	18360	19830	32530	20400
MAX	42000	75600	50600	59200	58800	73300	211000	34700	41100	42300	54900	58500
MIN	9940	12300	14000	11400	9300	10000	6020	1440	3240	8200	8610	1400

TENNESSEE RIVER BASIN

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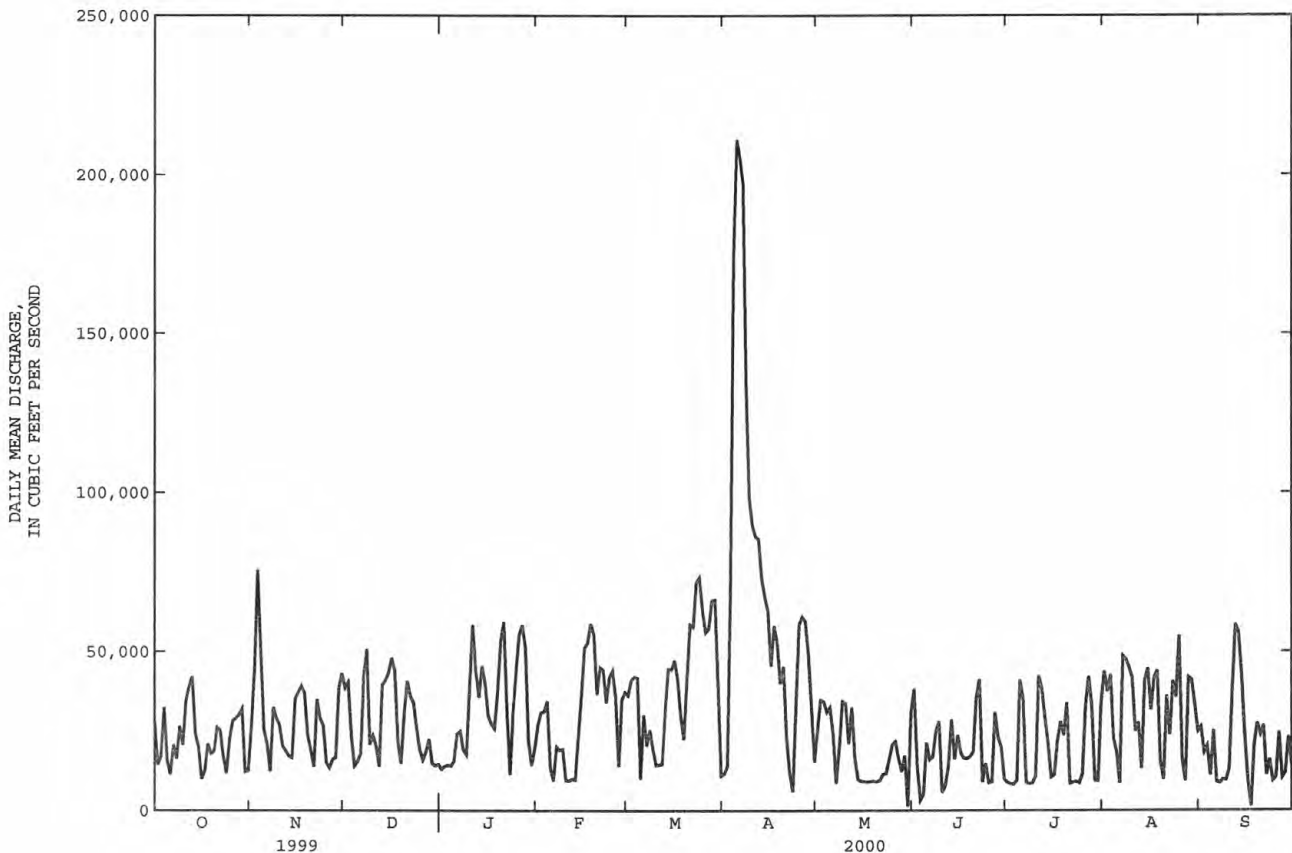
03593500 TENNESSEE RIVER AT SAVANNAH, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	36380	47200	72000	89010	93140	86110	55990	47860	40650	38550	37250	34560
MAX	97010	147000	160100	223100	228100	185600	172300	140400	112900	84810	64740	71700
(WY)	1990	1958	1992	1974	1957	1973	1994	1984	1997	1989	1967	1950
MIN	18820	20510	26850	23710	30610	19840	11150	8977	10490	12910	15910	15800
(WY)	1955	1954	1981	1986	2000	1988	1986	1988	1988	1988	1988	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	*WATER YEARS 1946 - 2000
ANNUAL TOTAL	15972850	11052700	
ANNUAL MEAN	43760	30200	56420
HIGHEST ANNUAL MEAN			86550
LOWEST ANNUAL MEAN			23090
HIGHEST DAILY MEAN	223000	Jan 24	211000
LOWEST DAILY MEAN	5450	May 31	1400
ANNUAL SEVEN-DAY MINIMUM	12100	Apr 24	9140
INSTANTANEOUS PEAK FLOW			219000
INSTANTANEOUS PEAK STAGE			28.18
INSTANTANEOUS LOW FLOW			1400
10 PERCENT EXCEEDS	88300		53600
50 PERCENT EXCEEDS	31200		25000
90 PERCENT EXCEEDS	13400		9410

* Regulated period only.
a Datum then in use; see GAGE paragraph.
e Estimated.



TENNESSEE RIVER BASIN

03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN

LOCATION.--Lat 35°30'42", long 86°19'26", Bedford County, Hydrologic Unit 06040002, on right bank 0.3 mi above L&N Railroad bridge, 0.6 mi below Knob Creek, 1.2 mi southeast of Wartrace, and at mile 3.2.

DRAINAGE AREA.--85.5 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 769.30 ft above sea level.

REMARKS.--No estimated daily discharges. Records good except for July 24 to Aug. 30, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 19	2030	5,900	13.48	Apr 20	2245	3,550	11.16
Apr 3	1900	*7,850	*15.04				

Minimum discharge, 1.9 ft³/s, July 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.4	8.6	9.5	46	52	52	100	14	14	46	2.7
2	5.5	41	8.6	9.4	35	44	170	87	13	11	105	3.1
3	4.8	22	8.6	15	29	39	3460	76	12	9.7	12	3.6
4	5.3	9.0	8.7	77	26	102	1770	77	12	8.6	5.7	3.8
5	5.3	7.0	8.9	48	23	108	542	61	13	7.7	4.8	3.2
6	4.9	6.4	9.7	29	20	74	316	53	14	7.8	4.2	2.8
7	4.5	6.1	9.9	22	19	56	211	48	12	49	19	2.7
8	4.3	6.2	9.4	18	18	47	222	43	11	22	244	2.6
9	4.7	6.5	9.2	23	17	42	162	39	9.8	14	116	2.6
10	7.5	7.0	27	36	16	44	131	45	9.1	11	42	2.9
11	6.7	7.8	25	29	16	270	174	38	8.3	9.2	31	2.7
12	5.4	8.1	12	23	115	196	453	33	7.7	7.9	22	4.8
13	4.8	8.3	137	21	126	126	323	30	7.2	7.2	13	11
14	4.7	8.4	144	18	359	91	379	26	6.9	7.1	9.2	7.6
15	4.3	8.5	45	16	196	71	286	24	7.2	6.1	7.4	5.2
16	4.4	8.5	27	16	106	170	207	22	11	5.1	6.3	3.8
17	4.5	8.5	20	16	65	285	159	22	20	4.2	5.5	3.2
18	4.4	8.6	17	16	119	170	124	21	25	3.9	4.9	3.1
19	4.4	8.8	15	16	452	2710	103	19	36	4.1	4.5	2.9
20	4.6	9.4	14	16	209	1810	421	20	21	4.6	3.9	3.0
21	4.5	9.8	13	15	126	517	619	21	22	5.6	3.9	3.6
22	4.6	9.6	13	17	89	293	218	20	77	5.5	4.2	4.5
23	4.5	9.4	12	31	67	195	149	31	30	4.6	4.2	5.3
24	4.6	11	11	42	55	139	441	29	18	4.1	3.4	12
25	4.6	13	11	36	47	109	785	25	14	3.8	3.0	139
26	4.9	17	10	29	40	96	431	24	38	3.3	2.6	56
27	5.3	15	10	23	76	100	268	22	34	2.5	11	25
28	5.5	12	10	21	78	90	226	29	34	2.5	44	15
29	5.6	10	9.9	34	61	72	156	24	25	2.6	13	11
30	5.6	9.2	9.7	93	---	68	120	20	19	7.1	7.9	8.5
31	6.0	---	9.5	64	---	59	---	17	---	25	3.3	---
TOTAL	157.8	319.5	683.7	878.9	2651	8245	13078	1146	581.2	280.8	806.9	357.2
MEAN	5.09	10.6	22.1	28.4	91.4	266	436	37.0	19.4	9.06	26.0	11.9
MAX	7.5	41	144	93	452	2710	3460	100	77	49	244	139
MIN	4.3	6.1	8.6	9.4	16	39	52	17	6.9	2.5	2.6	2.6
CFSM	.06	.12	.26	.33	1.07	3.11	5.10	.43	.23	.11	.30	.14
IN.	.07	.14	.30	.38	1.15	3.59	5.69	.50	.25	.12	.35	.16

03597210 GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	65.5	114	289	291	293	344	216	120	79.8	50.0	33.0	40.7
MAX	285	296	825	633	793	726	503	261	294	127	92.1	240
(WY)	1996	1997	1991	1999	1991	1994	1994	1997	1997	1999	1996	1992
MIN	5.09	10.6	22.1	28.4	91.4	195	60.2	30.8	19.4	9.06	7.33	3.90
(WY)	2000	2000	2000	2000	2000	1992	1999	1992	2000	2000	1999	1999

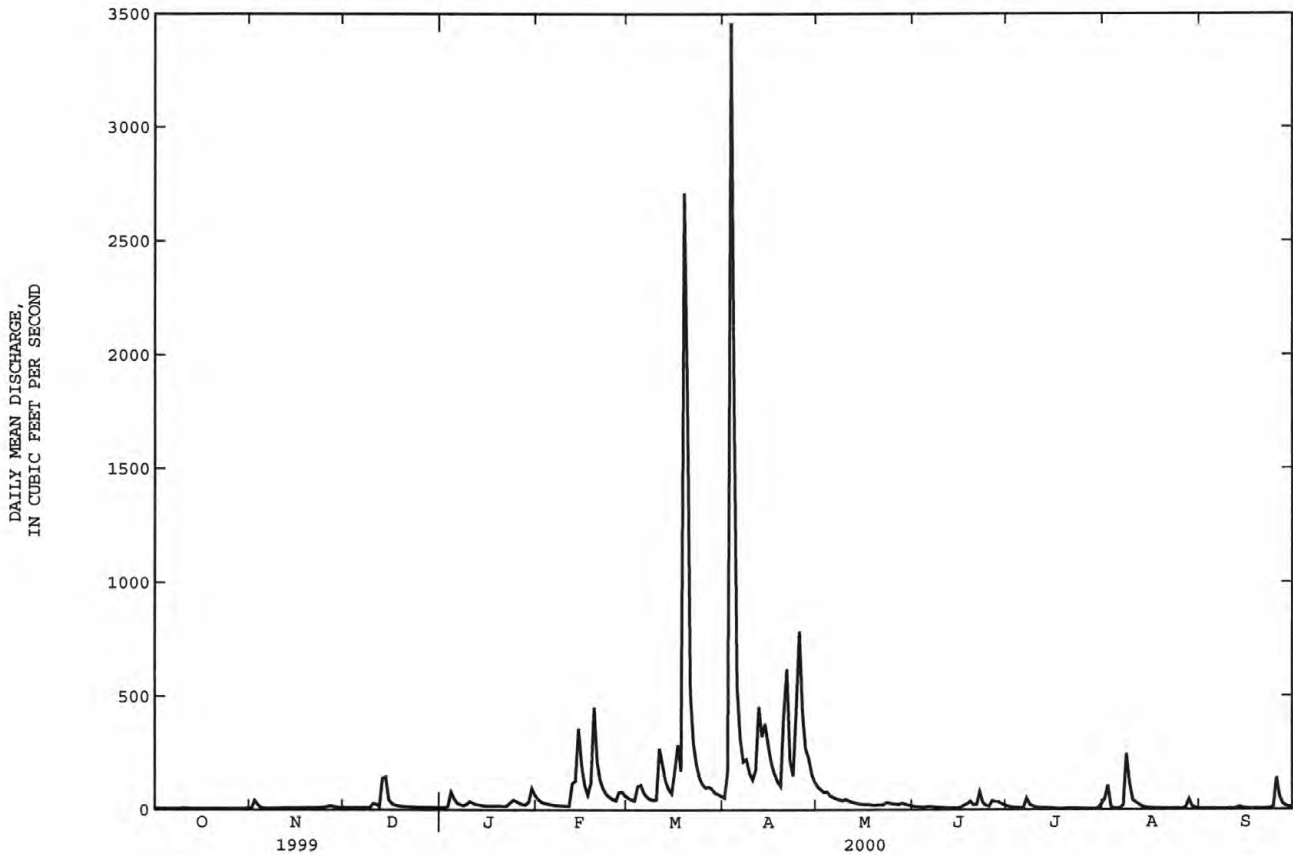
SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1990 - 2000

ANNUAL TOTAL	49425.3	29186.0	
ANNUAL MEAN	135	79.7	
HIGHEST ANNUAL MEAN			161
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	6840	Jan 23	79.7
LOWEST DAILY MEAN	2.0	Sep 18	7390
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 14	2.0
INSTANTANEOUS PEAK FLOW			2.1
INSTANTANEOUS PEAK STAGE			2.8
INSTANTANEOUS LOW FLOW			1.9
ANNUAL RUNOFF (CFSM)	1.58		1.7
ANNUAL RUNOFF (INCHES)	21.50		1.88
10 PERCENT EXCEEDS	255		25.58
50 PERCENT EXCEEDS	25		317
90 PERCENT EXCEEDS	4.6		55
			8.9



TENNESSEE RIVER BASIN

03597590 WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN

LOCATION.--Lat 35°31'38", long 86°20'25", Bedford County, Hydrologic Unit 06040002, on right bank 300 ft below county road bridge, 0.4 mi upstream from Louisville and Nashville Railroad bridge, 0.4 mi west of Wartrace, and at mile 2.3.

DRAINAGE AREA.--35.7 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Data collection platform and crest-stage gage. Datum of gage is 781.66 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 19	1930	3,030	10.64	Apr 3	1730	*5,750	*13.24

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.47	1.6	23	24	16	31	1.5	1.2	39	.24
2	.00	1.5	.37	1.6	16	18	125	26	1.2	.90	248	.25
3	.00	2.5	.33	1.9	13	16	2140	23	1.0	.71	13	.23
4	.00	.96	.32	8.1	12	83	704	27	.91	.52	5.5	.21
5	.00	.49	.32	12	9.5	54	190	18	.94	.40	3.8	.20
6	.00	.25	.33	8.1	7.7	34	101	14	1.1	.36	2.4	.16
7	.00	.29	.30	6.2	7.2	25	67	12	.98	.44	1.6	.13
8	.00	.24	.28	5.2	6.6	19	92	10	.74	.39	317	.12
9	.00	.19	.30	7.0	5.9	16	61	8.3	.64	.29	48	.12
10	.02	.15	3.9	15	5.6	35	47	11	.57	.29	14	.11
11	.04	.12	4.5	11	5.7	334	121	8.7	.51	.30	8.6	.10
12	.04	.12	2.4	8.3	41	106	257	6.7	.46	.25	4.7	.21
13	.04	.13	51	7.2	45	60	136	5.6	.41	.19	3.0	.38
14	.04	.12	81	6.1	177	43	210	4.5	.36	.15	2.1	.37
15	.03	.12	24	5.2	68	33	111	3.6	.35	.12	1.5	.31
16	.03	.11	12	5.0	43	61	74	3.2	1.1	.10	1.1	.22
17	.03	.11	7.7	4.9	30	90	58	2.9	1.0	.08	.83	.14
18	.03	.10	6.0	5.0	93	53	45	2.7	2.0	.07	.55	.10
19	.03	.10	5.1	4.9	318	1480	37	2.2	2.6	.06	.61	.09
20	.03	.12	4.1	4.6	82	678	290	2.3	1.6	.05	.55	.08
21	.03	.13	3.6	4.0	52	176	296	2.4	1.3	.07	.48	.07
22	.02	.16	3.4	4.5	38	95	81	2.3	2.2	.06	.44	.06
23	.01	.18	2.9	12	29	64	55	4.5	1.1	.05	.43	.07
24	.00	.35	2.6	25	23	48	373	4.2	.77	.04	.32	2.3
25	.00	.62	2.4	18	19	38	367	3.4	2.0	.03	.24	24
26	.00	1.1	2.2	13	16	35	144	3.3	5.8	.02	.23	5.2
27	.00	.97	2.1	10	48	38	83	3.0	4.7	.01	.77	2.0
28	.00	.98	2.0	8.3	42	32	75	3.4	9.0	.00	1.1	1.1
29	.00	.86	1.9	19	30	23	51	3.7	3.2	.00	.97	.64
30	.00	.59	1.8	46	---	24	39	2.7	1.9	.05	.56	.43
31	.00	---	1.7	32	---	20	---	2.0	---	.10	.33	---
TOTAL	0.42	13.68	231.32	320.7	1306.2	3855	6446	257.6	51.94	7.30	721.71	39.64
MEAN	.014	.46	7.46	10.3	45.0	124	215	8.31	1.73	.24	23.3	1.32
MAX	.04	2.5	81	46	318	1480	2140	31	9.0	1.2	317	24
MIN	.00	.02	.28	1.6	5.6	16	16	2.0	.35	.00	.23	.06
CFSM	.00	.01	.21	.29	1.26	3.48	6.02	.23	.05	.01	.65	.04
IN.	.00	.01	.24	.33	1.36	4.02	6.72	.27	.05	.01	.75	.04

03597590 WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.7	55.6	131	131	124	141	86.9	40.6	26.3	15.2	18.8	23.6
MAX	109	172	350	289	326	311	215	114	143	40.7	79.5	167
(WY)	1996	1997	1991	1999	1991	1994	2000	1997	1997	1999	1992	1992
MIN	.014	.46	7.46	10.3	43.3	78.8	11.9	2.23	1.57	.24	.012	.000
(WY)	2000	2000	2000	2000	1995	1992	1999	1992	1990	2000	1991	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

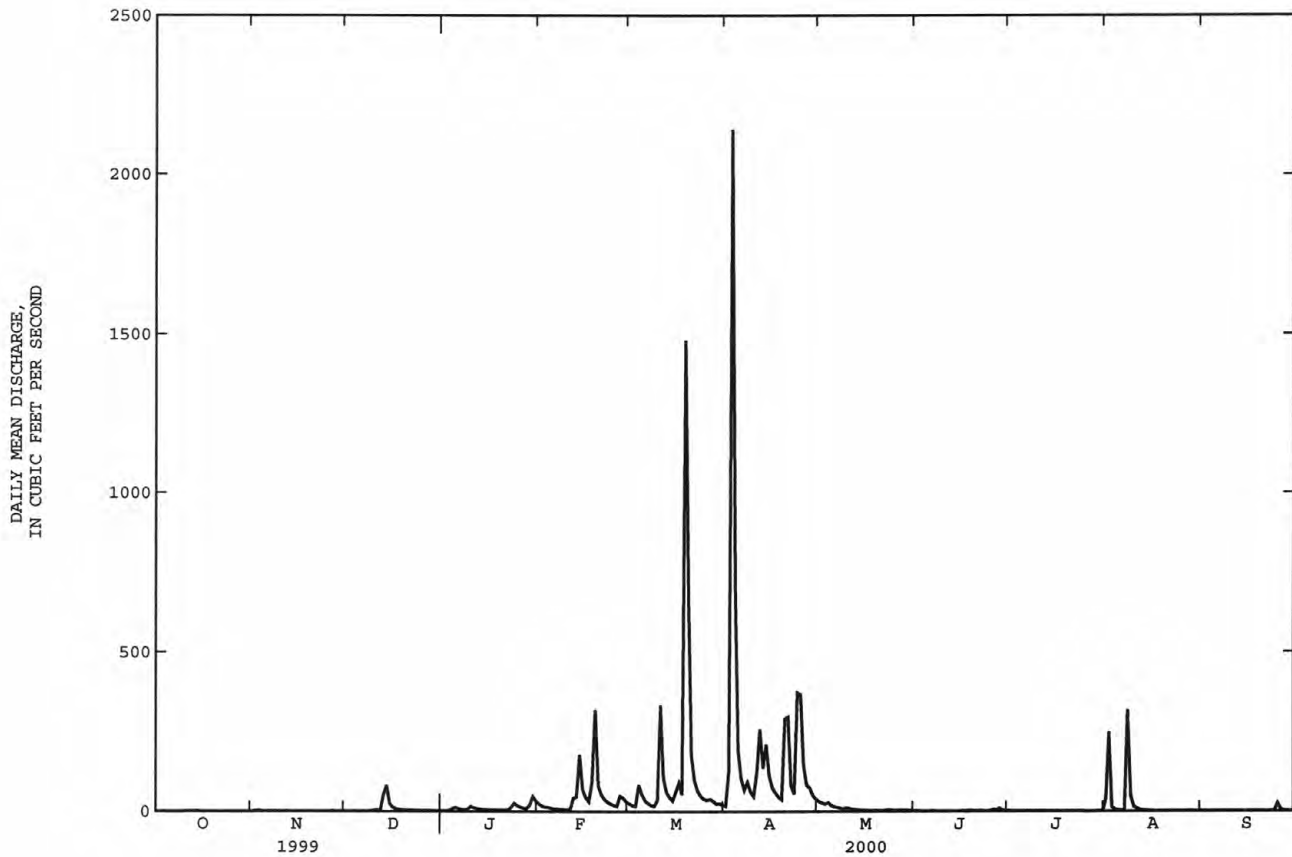
FOR 2000 WATER YEAR

WATER YEARS 1989 - 2000

ANNUAL TOTAL	18931.07	13251.51	
ANNUAL MEAN	51.9	36.2	68.1
HIGHEST ANNUAL MEAN			97.2
LOWEST ANNUAL MEAN			36.2
HIGHEST DAILY MEAN	3770	Jan 23	2140
LOWEST DAILY MEAN	.00	Aug 21	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 21	.00
INSTANTANEOUS PEAK FLOW			5750
INSTANTANEOUS PEAK STAGE			13.24
INSTANTANEOUS LOW FLOW			a.00
ANNUAL RUNOFF (CFSM)	1.45	1.01	1.91
ANNUAL RUNOFF (INCHES)	19.73	13.81	25.93
10 PERCENT EXCEEDS	89	67	125
50 PERCENT EXCEEDS	3.0	2.3	15
90 PERCENT EXCEEDS	.00	.04	.16

a No flow many days.

b No flow many days most years.



TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN

LOCATION.--Lat 35°28'51", long 86°27'45", Bedford County, Hydrologic Unit 06040002, on right bank 125 ft upstream from U.S. Highway 231 bridge, one block west of the southwest corner of the public square, and at mile 221.4.

DRAINAGE AREA.--425 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year, discharge for gage height of 12.00 ft and below only. Continuous stage records were collected by Tennessee Valley Authority from December 1981 to September 1991.

GAGE.--Data collection platform. Datum of gage is 680.00 ft above sea level. Prior to Oct. 10, 1991 at datum 10.00 ft higher.

REMARKS.--Records good. Flow regulated by Normandy Reservoir (station 03596460) since January 1976.

EXTREME FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 33.13 ft, Mar. 28, 1994; minimum discharge, 129 ft³/s, May 20, 1992; minimum daily discharge, 131 ft³/s, May 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, maximum gage height, 24.78 ft, Apr. 3; minimum, 130 ft³/s, Dec. 29; minimum daily discharge, 131 ft³/s, Dec. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	175	190	144	227	258	192	---	195	376	200	187
2	159	328	190	144	198	242	---	393	190	353	---	188
3	159	249	187	149	189	223	---	358	185	327	213	191
4	156	198	197	---	179	260	---	---	187	214	176	190
5	157	182	194	336	167	365	---	---	189	203	163	183
6	159	184	192	291	155	275	---	290	188	200	168	175
7	158	181	160	260	147	206	---	265	186	215	161	172
8	157	180	148	187	143	185	---	248	182	216	---	167
9	170	177	150	194	140	173	---	208	183	198	---	172
10	174	176	224	224	138	247	---	222	182	245	178	167
11	166	177	323	313	139	---	410	219	179	186	164	162
12	161	176	301	293	218	---	---	207	178	183	153	179
13	173	179	537	172	351	431	---	200	175	188	154	184
14	172	181	---	176	---	307	---	190	174	189	149	172
15	171	180	410	169	545	253	---	181	187	181	153	165
16	173	184	324	169	349	307	---	181	246	178	152	161
17	173	217	299	168	264	---	736	179	376	173	149	160
18	171	226	291	167	293	437	619	176	392	171	147	157
19	169	221	283	148	---	---	332	177	602	182	161	155
20	170	225	274	143	---	---	438	182	315	183	159	159
21	168	226	188	140	473	---	---	182	244	187	154	171
22	165	221	171	150	363	---	---	178	---	182	154	170
23	165	177	165	195	351	---	584	235	417	182	154	166
24	166	205	163	214	313	---	---	225	420	183	154	217
25	166	213	162	209	288	---	---	203	378	179	154	449
26	167	224	161	191	273	---	---	199	---	178	161	309
27	166	213	157	174	355	---	---	227	---	176	197	234
28	162	204	142	163	396	---	---	238	626	175	183	209
29	163	194	131	189	312	---	---	214	479	185	176	196
30	163	191	140	281	---	291	---	190	411	201	185	195
31	165	---	142	268	---	249	---	199	---	194	186	---
TOTAL	5121	6064	6596	6021	6966	4709	3311	6166	7666	6383	4658	5762
MEAN	165	202	220	201	268	277	473	220	284	206	166	192
MAX	174	328	537	336	545	437	736	393	626	376	213	449
MIN	156	175	131	140	138	173	192	176	174	171	147	155

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1991 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1991 to current year.

DISSOLVED OXYGEN: October 1991 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1991.

REMARKS.--Records good. Interruptions in the record were due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 30.1°C, July 30, 31, 1999; minimum, 0.1°C, Feb. 4, 5, 6, 1996.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Feb. 7, 2000; minimum, 5.7 mg/L, June 12, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.9°C, July 12; minimum, 1.8°C, Jan. 27, 28.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Feb. 7; minimum, 6.9 mg/L, May 10, 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.5	19.9	20.6	17.4	16.6	17.0	10.1	8.7	9.4	7.7	6.4	7.1
2	20.3	19.1	19.5	17.4	16.0	17.0	8.7	8.0	8.4	9.6	7.7	8.7
3	20.4	18.9	19.4	16.0	13.6	15.0	9.0	8.1	8.5	11.6	9.6	10.5
4	19.9	19.5	19.7	13.6	12.1	12.9	10.6	9.0	9.9	13.2	11.5	12.5
5	20.3	19.5	19.9	12.6	11.4	11.9	12.1	10.6	11.5	12.1	9.3	10.6
6	19.5	18.5	18.9	13.1	11.8	12.4	12.1	11.6	12.0	9.3	7.4	8.4
7	18.9	17.8	18.2	14.3	12.9	13.6	11.6	10.4	11.0	7.6	6.8	7.2
8	19.1	17.8	18.4	15.4	14.0	14.7	10.4	9.2	9.7	7.1	6.7	6.9
9	19.9	18.8	19.2	16.5	15.0	15.6	9.5	9.5	9.3	8.0	7.0	7.4
10	20.7	19.9	20.4	16.7	15.5	16.0	11.0	9.5	10.2	9.5	7.8	8.7
11	21.4	20.5	20.9	16.3	15.8	16.1	11.8	10.7	11.3	10.4	9.5	9.8
12	22.0	20.9	21.4	16.2	15.5	15.9	11.0	10.7	10.8	9.5	8.8	9.1
13	21.6	20.9	21.2	15.6	14.6	15.1	12.8	11.0	12.1	9.6	8.9	9.1
14	21.2	20.6	20.9	15.0	14.1	14.5	12.8	11.9	12.4	9.3	8.6	8.9
15	21.1	20.0	20.4	14.4	13.9	14.2	11.9	10.5	11.2	8.6	7.5	8.0
16	20.1	19.2	19.7	14.1	12.9	13.6	10.5	9.1	9.9	7.5	7.1	7.2
17	19.5	19.0	19.3	12.9	11.2	12.1	9.1	8.4	8.8	7.8	7.0	7.3
18	19.2	18.6	18.9	11.4	10.5	10.9	9.0	8.4	8.7	8.5	7.8	8.2
19	18.7	17.4	18.0	12.0	10.7	11.4	10.0	8.9	9.6	9.2	8.5	8.8
20	17.4	16.2	16.8	13.6	12.0	12.8	11.1	10.0	10.6	8.9	7.6	8.5
21	16.2	15.3	15.7	14.8	13.6	14.3	10.8	9.6	10.4	7.6	6.7	7.3
22	15.6	14.8	15.2	15.8	14.7	15.2	9.6	7.8	8.8	6.5	4.7	5.5
23	15.1	14.5	14.8	16.1	14.9	15.5	7.8	6.1	6.9	4.9	4.1	4.4
24	14.6	13.8	14.3	15.5	14.8	15.1	6.1	5.0	5.6	4.7	4.1	4.3
25	13.8	12.8	13.3	14.8	13.8	14.3	5.2	4.6	4.8	4.2	3.2	3.9
26	13.5	12.3	12.7	13.8	12.7	13.4	5.0	4.2	4.5	3.2	2.2	2.7
27	13.8	12.6	13.1	13.0	12.0	12.5	4.5	3.8	4.2	2.3	1.8	2.0
28	15.2	13.4	14.1	12.0	11.4	11.7	4.8	4.2	4.5	2.1	1.8	1.9
29	16.0	14.4	15.0	11.6	11.0	11.3	5.6	4.6	5.0	3.1	2.1	2.5
30	16.4	15.2	15.7	11.1	10.1	10.6	5.7	5.0	5.4	4.4	3.1	3.9
31	17.2	15.8	16.4	---	---	---	6.8	5.6	6.1	4.8	4.1	4.4
MONTH	22.0	12.3	17.8	17.4	10.1	13.9	12.8	3.8	8.8	13.2	1.8	7.0

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.2	3.5	3.9	12.7	11.6	12.3	16.0	13.4	14.7	16.8	16.5	16.6
2	3.9	3.0	3.4	13.8	12.4	13.1	16.5	15.0	15.7	18.6	16.8	17.6
3	3.9	2.7	3.3	13.2	12.4	12.7	16.6	14.6	15.5	19.6	18.6	19.2
4	4.0	3.3	3.7	12.4	11.6	12.0	14.6	13.2	13.6	19.8	19.1	19.4
5	4.9	3.9	4.3	12.2	11.4	11.7	13.6	11.7	12.5	19.9	18.6	19.2
6	5.0	4.0	4.5	11.7	11.2	11.4	14.8	12.8	13.7	20.9	19.1	19.8
7	5.5	4.2	4.8	13.1	11.1	12.1	15.0	13.6	14.4	22.9	19.9	21.4
8	5.8	4.7	5.2	14.0	12.1	12.9	15.1	12.8	13.9	23.7	21.6	22.4
9	7.0	5.4	6.1	---	---	---	13.6	11.6	12.5	24.3	22.0	23.0
10	7.6	6.2	6.9	16.5	15.1	15.8	13.6	12.9	13.2	23.8	22.2	22.9
11	8.3	7.6	8.0	16.9	13.7	15.5	13.6	13.2	13.3	23.9	21.9	22.8
12	9.4	8.3	8.9	13.7	11.6	12.4	14.1	13.5	13.8	24.0	21.7	22.7
13	9.3	9.2	9.3	11.6	10.8	11.0	14.0	13.5	13.8	23.7	22.4	23.0
14	10.1	9.3	9.8	11.1	10.6	10.9	14.6	13.4	13.8	23.4	22.5	22.9
15	10.1	9.7	9.9	11.9	11.1	11.7	15.2	14.6	15.0	22.6	21.3	21.8
16	---	---	---	13.6	12.2	13.0	15.9	14.6	15.2	21.7	20.3	20.9
17	11.4	10.6	11.0	13.9	13.0	13.3	16.5	15.9	16.2	21.4	19.8	20.4
18	12.3	10.9	11.6	13.1	12.1	12.4	15.9	14.6	15.1	22.8	20.0	21.3
19	13.3	11.0	12.3	12.3	10.5	11.5	15.5	14.0	14.7	22.9	21.3	22.2
20	11.0	9.2	9.8	12.1	10.7	11.5	17.5	14.9	16.4	22.7	22.2	22.5
21	9.2	8.6	8.9	13.1	11.5	12.2	17.6	14.1	15.7	22.3	21.5	21.9
22	10.0	9.0	9.4	13.1	12.0	12.6	14.5	13.0	13.7	22.0	20.8	21.2
23	11.1	10.0	10.7	13.8	12.0	12.9	15.2	14.5	14.8	22.2	20.7	21.3
24	12.5	11.2	11.9	14.1	12.6	13.4	15.0	14.0	14.6	22.6	21.3	21.9
25	13.8	12.2	13.0	14.5	14.1	14.2	15.2	14.0	14.4	22.9	21.8	22.3
26	14.6	13.3	14.0	14.6	14.1	14.4	15.6	14.7	15.1	22.9	22.1	22.4
27	14.8	13.9	14.4	14.3	14.0	14.2	15.8	14.5	15.2	23.9	22.0	22.6
28	13.9	12.1	12.9	14.0	13.1	13.4	15.9	14.6	15.4	23.6	22.0	22.7
29	12.4	11.6	12.0	13.3	11.4	12.3	15.7	15.0	15.3	23.0	22.3	22.6
30	---	---	---	12.1	11.3	11.7	16.5	15.2	15.7	23.0	21.5	22.2
31	---	---	---	13.8	12.1	13.1	---	---	---	23.5	21.2	22.2
MONTH	14.8	2.7	8.7	16.9	10.5	12.7	17.6	11.6	14.6	24.3	16.5	21.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	24.6	21.8	23.0	22.9	22.2	22.5	26.5	25.1	25.7	27.3	26.3	26.8
2	24.4	22.8	23.7	23.7	22.3	22.9	25.6	24.1	25.0	27.1	26.0	26.6
3	24.3	23.6	24.0	24.6	23.0	23.7	25.1	23.7	24.2	27.0	26.1	26.5
4	24.2	23.4	23.7	25.9	23.7	24.6	25.9	24.0	24.9	26.8	25.9	26.4
5	23.4	22.5	23.0	26.1	24.2	25.1	26.4	25.1	25.8	26.5	26.0	26.2
6	22.5	21.5	21.9	26.7	25.1	25.8	27.2	25.6	26.3	26.0	25.2	25.6
7	21.9	20.6	21.2	26.4	25.2	25.8	28.1	26.0	26.8	25.2	24.5	24.7
8	22.9	20.4	21.4	26.6	25.0	25.7	28.4	26.6	27.1	24.9	24.2	24.5
9	23.8	20.9	22.1	27.3	25.0	26.1	27.0	24.5	25.1	24.5	24.0	24.3
10	25.0	22.3	23.4	27.9	25.8	26.8	26.9	24.9	25.9	25.4	24.2	24.6
11	25.5	23.5	24.4	28.2	26.3	27.1	27.1	25.9	26.5	25.5	24.4	24.9
12	26.5	24.3	25.2	28.9	26.7	27.6	27.1	26.2	26.7	25.4	24.5	24.9
13	26.3	24.7	25.5	28.5	27.1	27.8	26.7	25.8	26.1	25.1	24.5	24.8
14	26.7	25.0	25.7	28.2	27.1	27.6	26.0	25.1	25.5	25.0	23.9	24.4
15	26.0	25.1	25.5	27.7	26.8	27.3	26.3	24.7	25.4	24.6	23.9	24.3
16	25.4	24.3	24.9	27.5	26.6	27.1	26.8	25.0	25.8	24.1	22.9	23.5
17	24.3	22.9	23.6	27.1	26.4	26.7	26.7	25.9	26.7	22.9	21.4	22.1
18	23.5	22.9	23.1	27.0	25.8	26.2	27.4	26.6	27.0	21.4	20.5	20.9
19	22.9	21.6	22.1	26.5	25.6	26.0	27.2	26.5	26.8	22.3	20.4	21.1
20	23.1	21.6	22.2	27.2	25.8	26.3	26.5	25.5	25.9	22.8	21.0	21.8
21	24.7	22.5	23.7	26.7	26.0	26.3	25.6	24.7	25.1	23.3	21.9	22.5
22	24.4	23.4	23.8	26.2	25.5	25.9	25.4	24.2	24.7	23.5	22.9	23.2
23	24.0	23.0	23.5	25.8	25.0	25.2	25.9	24.3	25.0	23.4	23.0	23.1
24	24.5	23.4	24.0	25.0	24.2	24.6	26.0	25.0	25.5	23.1	22.9	23.0
25	24.6	24.0	24.2	24.9	23.4	24.1	26.2	25.4	25.8	22.9	21.8	22.4
26	24.4	20.8	21.8	25.2	23.5	24.3	26.1	25.1	25.4	21.8	19.6	20.7
27	21.6	20.8	21.3	26.2	24.2	25.0	25.1	23.9	24.5	19.6	18.6	19.2
28	21.8	21.0	21.4	26.9	24.8	25.7	24.0	23.3	23.7	19.1	17.9	18.5
29	22.2	21.5	21.8	27.1	25.4	26.1	25.5	23.7	24.5	19.4	18.2	18.8
30	22.5	21.9	22.2	26.9	25.6	26.1	27.0	24.9	25.9	20.4	18.7	19.4
31	---	---	---	26.7	25.4	25.9	27.5	26.1	26.8	---	---	---
MONTH	26.7	20.4	23.2	28.9	22.2	25.7	28.4	23.3	25.7	27.3	17.9	23.3

TENNESSEE RIVER BASIN

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03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	8.7	8.1	8.4	9.4	7.8	8.8	11.7	11.2	11.5	12.0	10.8	11.4
2	9.0	8.6	8.9	9.2	8.5	9.0	12.0	11.6	11.8	11.1	10.3	10.8
3	9.2	8.8	9.0	9.8	9.1	9.5	12.2	10.6	11.4	10.9	9.9	10.5
4	9.0	8.8	8.9	10.3	9.8	10.1	11.2	9.7	10.7	10.4	9.7	10.0
5	9.1	8.7	8.9	10.8	10.3	10.6	10.5	9.3	9.7	10.6	9.9	10.3
6	9.3	8.8	9.0	10.8	10.4	10.6	10.5	9.8	10.3	11.3	10.6	11.0
7	9.6	9.1	9.3	10.4	9.8	10.1	11.0	10.4	10.7	11.9	11.3	11.5
8	9.6	9.1	9.3	10.0	9.5	9.7	11.8	11.0	11.5	11.8	11.5	11.6
9	9.2	8.8	9.0	9.6	9.0	9.4	12.3	10.5	11.8	11.8	11.3	11.5
10	8.8	8.4	8.6	9.5	9.1	9.4	12.0	10.6	11.6	11.8	11.0	11.3
11	8.6	8.1	8.4	9.6	9.2	9.4	11.5	10.8	11.2	11.4	10.9	11.0
12	8.4	8.1	8.3	9.4	7.9	9.0	12.2	10.7	11.6	11.5	11.0	11.3
13	8.5	8.2	8.3	9.5	8.1	9.0	11.9	10.7	11.3	11.9	11.0	11.4
14	8.6	8.3	8.4	9.8	8.9	9.5	11.7	10.8	11.4	12.1	11.0	11.5
15	8.8	8.4	8.6	9.9	9.4	9.6	11.9	11.3	11.6	12.3	10.7	11.7
16	8.9	8.6	8.8	10.0	9.6	9.8	13.1	11.9	12.6	12.0	10.6	11.6
17	9.1	8.6	8.8	10.6	9.9	10.3	13.6	13.1	13.4	12.1	10.9	11.6
18	9.2	8.8	8.9	10.9	10.6	10.7	13.9	12.9	13.6	11.9	11.1	11.6
19	9.3	8.8	9.1	10.9	10.5	10.7	13.5	12.8	13.2	11.7	10.7	11.3
20	10.0	9.3	9.6	10.5	9.2	9.8	12.9	12.2	12.6	---	---	---
21	10.0	9.1	9.7	9.8	9.2	9.6	12.8	12.1	12.6	---	---	---
22	10.0	9.8	9.9	9.5	8.6	9.3	13.4	12.8	13.2	---	---	---
23	10.2	9.9	10.0	9.4	8.1	9.0	14.0	13.4	13.7	---	---	---
24	10.5	10.0	10.2	9.4	8.3	8.9	14.1	13.3	13.8	13.4	12.8	12.9
25	10.7	10.3	10.4	9.3	8.7	9.0	13.8	13.2	13.5	13.2	12.8	13.1
26	10.8	10.4	10.6	9.8	8.8	9.5	13.4	13.1	13.3	14.1	13.2	13.6
27	10.6	10.2	10.5	10.3	9.8	10.1	13.4	12.7	13.0	15.1	13.7	14.1
28	10.4	9.9	10.2	10.5	10.2	10.4	13.4	12.8	13.1	14.5	14.0	14.2
29	10.1	9.7	9.9	10.9	10.3	10.8	13.1	12.6	12.8	14.1	13.8	13.9
30	10.0	9.6	9.8	11.2	10.9	11.1	12.9	12.4	12.7	13.8	12.9	13.3
31	9.8	9.4	9.6	---	---	---	12.8	12.0	12.4	13.5	12.9	13.2
MONTH	10.8	8.1	9.3	11.2	7.8	9.8	14.1	9.3	12.2	15.1	9.7	11.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	14.0	13.0	13.5	---	---	---	10.7	10.0	10.3	9.6	9.0	9.4
2	15.1	13.5	14.0	12.0	10.5	11.0	10.3	9.7	10.0	9.5	8.7	9.2
3	15.2	13.7	14.1	12.9	10.5	10.9	9.9	8.6	9.1	8.9	8.4	8.7
4	14.7	13.7	14.0	12.8	10.5	11.1	10.3	8.4	9.4	8.9	8.4	8.6
5	15.1	13.6	14.0	12.6	10.8	11.3	10.8	10.3	10.6	9.0	8.6	8.8
6	15.3	13.5	14.0	11.5	10.6	11.0	10.5	10.2	10.4	9.1	8.1	8.5
7	15.5	13.5	14.0	11.3	10.6	10.8	10.4	10.0	10.2	8.7	7.5	8.0
8	15.3	13.2	13.9	11.0	10.5	10.8	10.5	9.9	10.2	8.5	7.3	7.7
9	15.2	12.8	13.5	---	---	---	11.0	10.5	10.8	8.5	7.0	7.5
10	14.6	12.3	13.0	9.9	8.7	9.3	10.9	10.5	10.7	8.5	6.9	7.3
11	13.4	11.8	12.5	9.7	8.9	9.2	10.6	10.2	10.4	8.6	6.9	7.7
12	12.0	11.5	11.8	10.9	9.7	10.4	10.4	9.9	10.0	8.7	8.2	8.4
13	11.6	11.3	11.4	11.9	11.0	11.5	10.4	10.1	10.3	8.7	8.2	8.4
14	11.6	11.2	11.3	12.0	11.5	11.8	10.4	10.1	10.2	8.7	8.1	8.4
15	11.6	11.3	11.5	11.7	11.5	11.7	10.1	9.8	9.9	9.0	8.3	8.6
16	11.7	11.4	11.5	11.3	10.5	10.8	10.1	10.1	10.1	9.1	8.6	8.8
17	12.0	11.1	11.4	11.0	10.4	10.8	10.1	9.7	9.8	9.2	8.7	8.9
18	11.7	10.9	11.2	11.3	10.6	11.1	10.2	9.9	10.0	8.9	8.4	8.7
19	11.2	9.9	10.5	11.2	10.2	10.8	10.4	9.8	10.2	8.6	8.0	8.3
20	12.1	10.9	11.7	11.0	10.2	10.5	10.2	9.1	9.8	8.1	7.8	7.9
21	12.6	12.0	12.2	11.3	11.0	11.2	9.6	7.6	8.6	8.0	7.7	7.8
22	13.2	11.7	12.1	11.3	11.0	11.2	10.2	9.4	10.0	8.1	7.6	7.9
23	12.7	11.4	11.8	11.1	10.9	11.0	10.2	9.7	9.9	8.0	7.5	7.8
24	11.7	11.1	11.4	11.0	10.7	10.9	9.9	8.9	9.5	7.5	7.0	7.2
25	11.3	10.6	11.0	10.8	10.5	10.7	9.5	9.0	9.4	---	---	---
26	12.0	10.3	10.8	10.6	9.8	10.3	9.9	9.3	9.6	---	---	---
27	11.3	10.3	10.6	10.4	10.1	10.3	10.0	9.4	9.7	---	---	---
28	12.0	10.5	11.0	11.1	10.2	10.7	9.8	9.3	9.6	---	---	---
29	12.8	10.6	11.4	11.4	10.9	11.2	10.0	9.5	9.7	---	---	---
30	---	---	---	11.3	10.9	11.1	9.9	9.5	9.7	---	---	---
31	---	---	---	11.1	10.5	10.8	---	---	---	---	---	---
MONTH	15.5	9.9	12.2	12.9	8.7	10.8	11.0	7.6	9.9	9.6	6.9	8.3

TENNESSEE RIVER BASIN

03597860 DUCK RIVER AT SHELBYVILLE, TN--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	9.5	8.6	8.9	8.1	7.7	8.0	7.9	7.8	7.9
2	---	---	---	9.4	8.7	8.9	---	---	---	7.9	7.7	7.8
3	---	---	---	9.4	8.5	8.8	8.7	8.0	8.3	7.8	7.1	7.6
4	---	---	---	9.5	8.0	8.5	8.9	8.2	8.7	7.8	7.6	7.7
5	8.7	8.0	8.3	8.5	7.7	8.1	9.2	8.5	8.7	7.8	7.6	7.6
6	9.2	8.6	8.8	9.4	7.9	8.3	8.6	8.3	8.5	7.8	7.6	7.7
7	9.4	8.8	9.0	9.5	8.0	8.3	8.4	7.8	8.0	7.9	7.5	7.8
8	9.2	8.8	9.0	8.4	7.9	8.2	8.1	7.5	7.9	8.0	7.8	7.9
9	9.1	8.6	8.9	8.5	8.2	8.3	8.1	7.6	7.9	8.2	7.6	7.9
10	8.8	8.3	8.6	8.4	8.1	8.3	7.8	7.6	7.7	8.1	7.7	7.9
11	8.7	8.1	8.4	8.3	7.9	8.1	7.9	7.6	7.7	7.9	7.7	7.8
12	8.2	7.9	8.1	8.1	7.9	8.0	8.0	7.6	7.8	8.0	7.4	7.7
13	8.4	7.8	8.1	8.2	7.8	8.0	8.2	7.7	7.9	8.0	7.6	7.8
14	8.2	7.7	7.9	9.2	7.8	8.3	8.1	7.8	8.0	8.1	7.6	7.8
15	8.0	7.6	7.8	8.6	8.1	8.4	8.3	8.1	8.2	8.2	7.9	8.0
16	7.9	7.5	7.7	8.3	7.5	8.0	8.0	8.3	8.2	8.3	8.0	8.1
17	8.4	7.8	8.1	8.3	7.6	8.0	8.2	7.8	8.1	8.6	8.2	8.5
18	8.4	8.0	8.1	8.5	8.1	8.3	8.1	7.9	8.0	8.8	8.5	8.7
19	8.7	8.4	8.6	8.4	8.2	8.3	8.2	7.9	8.1	8.9	8.6	8.8
20	8.7	8.4	8.6	8.3	7.1	7.8	8.3	7.9	8.2	8.9	8.6	8.8
21	8.4	8.0	8.3	7.8	7.4	7.7	8.6	8.2	8.4	8.8	8.6	8.7
22	8.3	8.0	8.2	8.0	7.6	7.8	8.5	8.3	8.4	8.8	8.6	8.7
23	8.3	7.8	8.1	8.1	7.8	7.9	8.5	8.2	8.4	8.9	8.6	8.8
24	8.3	7.9	8.2	8.3	8.0	8.1	8.4	8.2	8.3	8.9	8.6	8.8
25	8.4	7.8	8.2	8.4	8.1	8.3	8.4	7.3	8.0	9.0	8.8	8.9
26	8.8	7.0	8.0	8.4	7.9	8.3	8.7	7.8	8.2	9.2	8.9	9.1
27	9.1	8.6	8.9	8.4	7.9	8.2	9.0	8.3	8.7	9.2	9.0	9.1
28	9.2	8.6	8.9	8.4	8.2	8.3	8.8	8.5	8.7	9.1	8.9	9.0
29	9.3	8.7	9.0	8.4	8.1	8.2	8.5	8.4	8.5	8.9	8.6	8.7
30	9.3	8.8	9.0	8.4	8.0	8.2	8.4	8.1	8.3	8.6	8.4	8.5
31	---	---	---	8.3	7.8	8.2	8.1	7.8	8.0	---	---	---
MONTH	9.4	7.0	8.4	9.5	7.1	8.2	9.2	7.3	8.2	9.2	7.1	8.3

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TENNESSEE RIVER BASIN

03598000 DUCK RIVER NEAR SHELBYVILLE, TN

LOCATION.--Lat 35°28'49", long 86°29'57", Bedford County, Hydrologic Unit 06040002, on right bank 150 ft downstream from Sims Bridge, 2.1 mi upstream from Sugar Creek, 2.2 mi west of Shelbyville, 2.9 mi downstream from Flat Creek, and at mile 216.2.

DRAINAGE AREA.--481 mi².

PERIOD OF RECORD.--October 1933 to current year. Prior to April 1934, monthly discharge only, published in WSP 1306.

REVISED RECORDS.--WSP 783: 1934. WSP 853: Drainage area.

GAGE.--Data collection platform. Datum of gage is 683.51 ft above sea level. Prior to Sept. 2, 1966, at datum 2.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge prior to regulation, 62,900 ft³/s, Feb. 13, 1948, gage height, 38.40 ft, present datum, from floodmarks, from rating curve extended above 35,000 ft³/s on basis of slope-area measurement of peak flow. Prior to 1948, diurnal fluctuation caused by powerplant upstream. Flow regulated by Normandy Reservoir (station 03596460) since January 1976. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1929 reached a stage of 39.6 ft present datum, discharge, about 70,000 ft³/s, from high-water profile by Tennessee Valley Authority. Flood in March 1902 reached a stage about 2.0 ft higher than that in March 1929, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s, at 0800 hours Apr. 4, gage height 21.61 ft; minimum, 146 ft³/s, Dec. 29, 30; minimum daily, 149 ft³/s, Dec. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	204	217	161	331	345	291	1020	221	465	230	229
2	189	425	215	162	282	316	445	494	213	435	563	229
3	189	327	212	166	261	289	5810	448	206	409	276	232
4	184	243	224	1190	244	324	10800	488	207	281	225	231
5	181	215	225	554	224	468	4440	896	209	256	206	226
6	180	207	220	433	202	359	3240	376	208	252	210	217
7	178	205	188	370	190	274	2680	332	203	263	202	213
8	176	202	166	268	182	239	2380	311	195	272	275	204
9	196	199	166	275	177	223	2090	265	194	245	845	206
10	205	198	273	328	173	380	1160	280	194	294	243	204
11	195	199	383	430	174	1270	543	274	192	228	207	199
12	189	197	367	413	289	906	1720	254	191	224	194	223
13	197	200	708	252	487	597	1320	243	189	229	190	242
14	199	203	994	230	1040	436	1710	226	186	230	191	219
15	197	199	552	226	803	356	1440	213	199	219	194	206
16	201	201	419	222	528	439	1080	206	287	213	194	197
17	201	231	376	221	394	943	892	204	445	208	191	194
18	198	251	360	221	401	605	761	200	556	204	187	192
19	199	250	347	198	1750	3780	483	201	859	215	200	189
20	200	259	335	187	1020	9720	526	208	464	219	200	190
21	200	260	241	181	665	4130	2010	205	324	225	196	203
22	197	256	203	195	505	3110	908	199	1470	217	192	203
23	195	205	195	283	472	2640	687	285	648	215	192	197
24	194	240	191	308	420	2220	1630	271	548	214	190	247
25	194	255	189	294	383	1310	3060	239	480	208	188	571
26	193	275	187	264	358	1220	2490	226	2480	206	191	394
27	194	257	182	234	460	1200	2430	275	1070	204	261	285
28	194	242	166	215	523	1160	2100	301	817	201	244	247
29	194	226	149	257	416	1040	1320	261	619	208	226	227
30	194	219	155	405	---	428	1170	224	519	236	228	221
31	195	---	160	398	---	359	---	226	---	237	231	---
TOTAL	5985	7050	8965	9541	13354	41086	61616	9851	14593	7732	7562	7037
MEAN	193	235	289	308	460	1325	2054	318	486	249	244	235
MAX	205	425	994	1190	1750	9720	10800	1020	2480	465	845	571
MIN	176	197	149	161	173	223	291	199	186	201	187	189
(†)	-3600	-2700	-2800	+500	+3500	+5900	+6900	+200	+1000	-2700	-2800	-3300
MEAN(†)	76.9	145	199	324	581	1516	2284	324	520	162	154	125
CFSM(†)	.16	.30	.41	.67	1.21	3.15	4.75	.67	1.08	.34	.32	.26
IN.(†)	.18	.34	.48	.78	1.30	3.63	5.30	.78	1.21	.39	.37	.29
CAL YR 1999	MEAN(†) 767	CFSM(†)	1.60	IN.(†)	21.66							
WTR YR 2000	MEAN(†) 531	CFSM(†)	1.10	IN.(†)	15.04							

(†) Change in contents, in cfs-days in Normandy Lake.

(‡) Adjusted for change in content.

NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

TENNESSEE RIVER BASIN

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03598000 DUCK RIVER NEAR SHELBYVILLE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	360	944	1346	1377	1265	1490	957	722	544	348	286	307
MAX	1314	2277	4132	2873	3730	3649	2992	2753	2151	1670	749	1036
(WY)	1990	1987	1992	1979	1994	1980	1994	1983	1989	1989	1998	1992
MIN	157	170	289	175	339	308	165	137	166	166	154	163
(WY)	1988	1988	2000	1986	1978	1988	1986	1988	1988	1987	1983	1980

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

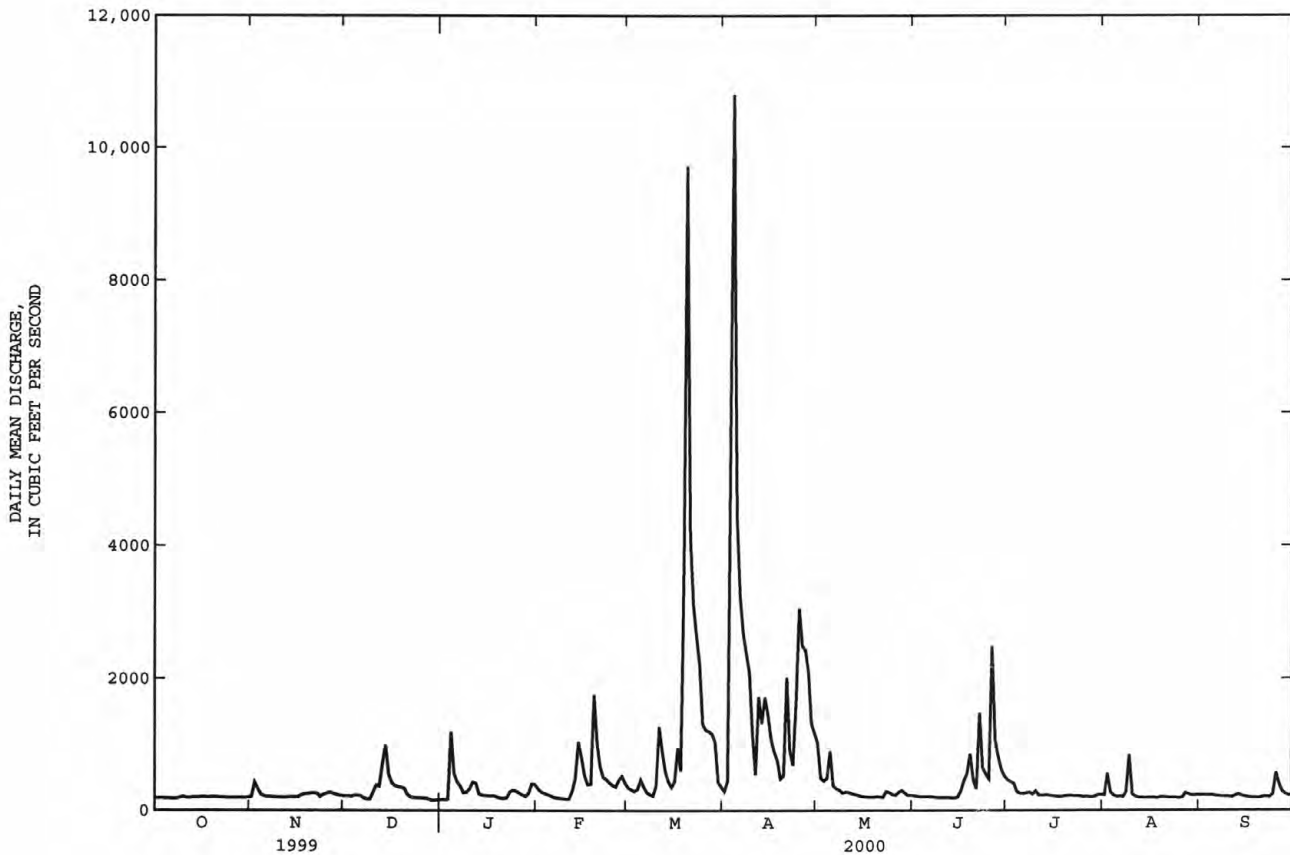
FOR 2000 WATER YEAR

*WATER YEARS 1977 - 2000

ANNUAL TOTAL	281114	194372	
ANNUAL MEAN	770	531	
HIGHEST ANNUAL MEAN			825
LOWEST ANNUAL MEAN			1253
HIGHEST DAILY MEAN	16300	Jan 23	10800
LOWEST DAILY MEAN	149	Dec 29	149
ANNUAL SEVEN-DAY MINIMUM	165	Jun 7	160
INSTANTANEOUS PEAK FLOW			13100
INSTANTANEOUS PEAK STAGE			21.61
INSTANTANEOUS LOW FLOW			146
10 PERCENT EXCEEDS	2240		1070
50 PERCENT EXCEEDS	226		235
90 PERCENT EXCEEDS	176		190

* Regulated period only.

a Also occurred Dec. 30.



TENNESSEE RIVER BASIN

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN

LOCATION.--Lat 35°35'06", long 86°35'45", Bedford County, Hydrologic Unit 06040002, on left bank 25 ft downstream from State Highway 270 bridge, 1.2 mi downstream from Weakly Creek, 0.8 mi northwest of Poplins Crossroads, and at mile 3.4.

DRAINAGE AREA.--71.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1994 to April 1995, October 1998 to current year.

GAGE.--Data logger. Elevation of gage is 662 ft above sea level from topographic map.

REMARKS.--Records good, except for estimated discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 20	0300	*3,120	*11.39	Apr 4	0215	3,050	11.30

Minimum discharge, no flow, on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.72	1.8	58	49	53	62	6.8	e4.5	e.02	.64
2	.00	5.7	.51	1.6	46	39	133	53	e5.0	e3.0	e.50	.44
3	.00	1.7	.46	1.8	40	34	1610	51	e4.4	e2.0	e.25	.32
4	.00	.53	.51	50	34	466	1730	71	e3.7	e1.5	e.13	.22
5	.00	.68	.58	50	28	220	323	50	e3.0	e1.0	e.07	.15
6	.00	.44	.70	33	23	128	181	41	e4.0	e.64	e.04	.09
7	.00	.27	.61	24	20	92	124	35	e3.5	e1.0	e.03	.05
8	.00	.17	.52	18	19	72	167	29	e3.0	e1.5	e1.0	.03
9	.00	.11	.57	119	16	59	116	25	e2.5	e.64	e.40	.01
10	.03	.09	13	121	14	174	85	30	e2.0	e.46	e.20	.00
11	.03	.07	9.1	65	13	922	135	26	e1.7	e.60	e.10	.00
12	.00	.03	5.2	46	160	287	507	21	e1.5	e.80	e.07	2.2
13	.00	.02	173	38	163	156	255	17	e1.4	e.30	e.05	11
14	.00	.01	308	30	760	111	354	14	e1.3	e.20	e.03	6.3
15	.00	.00	85	23	242	87	193	12	e1.2	e.12	e.02	4.2
16	.00	.00	49	20	148	76	135	11	e1.5	e.09	e.01	3.1
17	.00	.00	33	19	101	95	102	9.7	e2.9	e.06	e.12	2.4
18	.00	.00	24	20	196	67	82	8.6	e3.8	e.05	.14	1.8
19	.00	.00	18	19	548	931	69	8.2	e5.0	e.04	.10	1.1
20	.00	.00	14	17	194	1770	78	8.0	e3.5	e.02	.06	.81
21	.00	.00	11	14	130	354	175	7.8	e2.6	e.08	.04	.78
22	.00	.00	9.3	14	99	196	82	7.8	e4.0	e.15	e.00	.65
23	.00	.00	7.5	37	75	136	61	14	e3.0	e.08	e.00	.57
24	.00	.06	6.1	55	60	103	526	19	e2.0	e.04	e.00	2.3
25	.00	6.2	4.9	43	51	82	740	15	e3.5	e.03	e.00	13
26	.00	14	4.1	33	43	99	235	13	e8.0	e.02	e.00	4.3
27	.00	6.0	3.5	26	98	166	139	39	e12	e.01	e8.0	2.1
28	.00	3.0	3.1	22	82	111	143	56	e20	e.00	e5.0	1.2
29	.00	1.7	2.6	47	59	71	98	28	e11	e.00	e3.0	.82
30	.00	1.1	2.3	103	---	74	76	16	e6.4	e.00	1.1	.61
31	.00	---	2.0	76	---	67	---	11	---	e.00	.87	---
TOTAL	0.06	41.88	792.88	1187.2	3520	7294	8707	809.1	134.2	18.93	21.35	61.19
MEAN	.002	1.40	25.6	38.3	121	235	290	26.1	4.47	.61	.69	2.04
MAX	.03	.14	308	121	760	1770	1730	71	20	4.5	8.0	13
MIN	.00	.00	.46	1.6	13	34	53	7.8	1.2	.00	.00	.00
CFSM	.00	.02	.36	.53	1.69	3.27	4.04	.36	.06	.01	.01	.03
IN.	.00	.02	.41	.61	1.82	3.77	4.50	.42	.07	.01	.01	.03

TENNESSEE RIVER BASIN

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03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.3	35.3	134	226	119	228	196	55.8	4.79	8.37	10.4	6.92
MAX	51.4	104	226	472	144	258	369	114	7.18	18.6	30.4	24.9
(WY)	1995	1995	1999	1999	1999	1995	1994	1999	1999	1994	1994	1994
MIN	.002	.50	25.6	38.3	90.9	190	29.7	26.1	2.72	.61	.016	.000
(WY)	2000	1999	2000	2000	1995	1999	1999	2000	1994	2000	1999	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

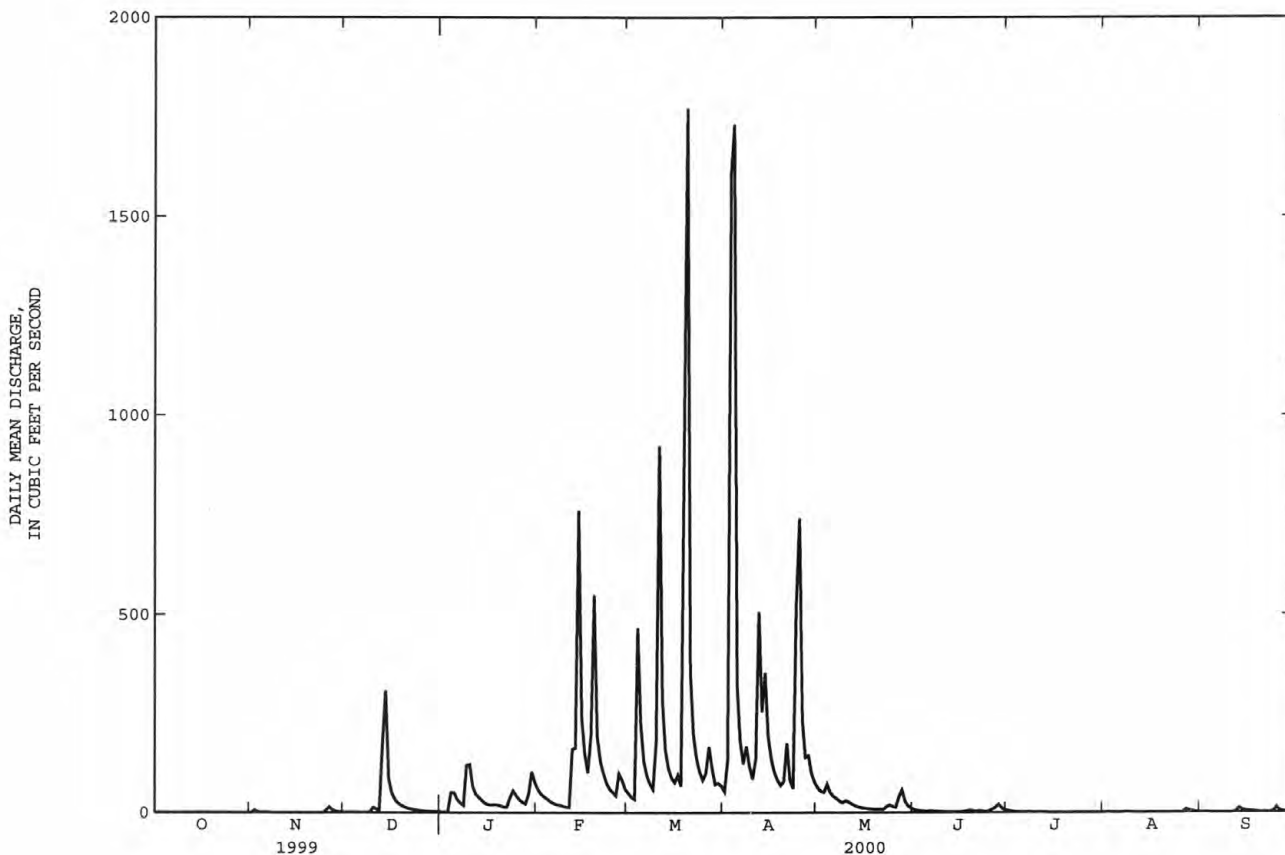
WATER YEARS 1994 - 2000

ANNUAL TOTAL	30201.07	22587.79	
ANNUAL MEAN	82.7	61.7	80.7
HIGHEST ANNUAL MEAN			99.7
LOWEST ANNUAL MEAN			61.7
HIGHEST DAILY MEAN	4700	Jan 23	4700
LOWEST DAILY MEAN	.00	Aug 4	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 4	.00
INSTANTANEOUS PEAK FLOW			3120
INSTANTANEOUS PEAK STAGE			11.39
INSTANTANEOUS LOW FLOW			a.00
ANNUAL RUNOFF (CFSM)	1.15		.86
ANNUAL RUNOFF (INCHES)	15.63		11.69
10 PERCENT EXCEEDS	173		137
50 PERCENT EXCEEDS	3.4		4.4
90 PERCENT EXCEEDS	.00		.00

a No flow many days.

b No flow, many days 1999 water year.

e Estimated



TENNESSEE RIVER BASIN

03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL AS CACO3 (00900)	
NOV 16...	0930	.01	508	8.1	10.0	760	1	9.5	84	E12	250	
DEC 13...	1600	91	427	8.0	13.0	749	9	9.2	89	K3000	200	
JAN 04...	0945	42	411	8.0	13.0	757	10	7.6	73	4700	200	
10...	1400	112	329	8.1	11.5	743	23	11.8	111	1500	170	
FEB 14...	1100	895	203	7.6	10.5	746	110	8.8	81	6300	94	
MAR 20...	0930	2260	145	8.0	10.5	757	140	7.8	70	7900	64	
APR 19...	1030	70	325	8.1	13.0	750	5	11.0	106	120	170	
MAY 09...	0945	25	329	8.0	21.5	744	--	6.1	69	130	160	
JUN 20...	1030	<3.5	371	7.9	25.0	761	5	4.1	50	47	170	
JUL 14...	1500	<.20	290	8.1	30.5	754	4	4.6	62	K10	130	
AUG 16...	1200	<.01	341	7.9	26.5	762	5	6.2	77	<1	160	
SEP 13...	1245	12	311	7.9	23.0	759	6	4.7	55	K410	150	
DATE		HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 16...	51	89.0	6.68	5.4	4	.1	3.8	242	198	28.5	11.7	
DEC 13...	19	75.5	3.91	3.1	3	.1	2.2	226	186	19.4	8.2	
JAN 04...	44	73.5	3.96	2.6	3	.1	1.8	190	156	19.4	7.9	
10...	23	60.8	3.26	2.1	3	.1	1.7	174	142	16.5	7.2	
FEB 14...	15	33.6	2.38	1.6	3	.1	2.2	96	79	10.9	4.9	
MAR 20...	4	22.8	1.69	.9	3	.1	1.8	73	60	4.7	2.0	
APR 19...	29	62.0	3.42	2.0	3	.1	.9	171	139	10.5	5.3	
MAY 09...	18	56.3	3.60	2.1	3	.1	.9	168	138	10.4	5.2	
JUN 20...	22	61.9	4.70	2.9	4	.1	1.6	185	152	8.4	6.9	
JUL 14...	8	45.8	3.82	2.6	4	.1	4.7	149	122	9.6	6.3	
AUG 16...	12	53.9	4.98	3.0	4	.1	3.1	174	143	11.2	6.7	
SEP 13...	10	50.7	4.51	3.8	5	.1	2.5	165	137	8.6	7.3	

E--Estimated

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

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03598250 NORTH FORK CREEK NEAR POPLINS CROSSROADS, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 16...	<.1	2.1	289	277	.39	2.27	.101	2.37	<.020	.36	.50
DEC 13...	<.1	4.8	261	254	.35	5.71	.030	5.74	<.020	.33	.45
JAN 04...	<.1	3.4	238	217	.32	2.52	.018	2.54	<.020	.24	.37
10...	<.1	5.3	204	195	.28	2.86	.013	2.87	<.020	.34	.56
FEB 14...	<.1	5.0	133	114	.18	1.34	.013	1.36	.041	.64	1.2
MAR 20...	<.1	3.9	97	77	.13	--	<.010	.581	.054	.53	.92
APR 19...	<.1	3.1	193	175	.26	--	<.010	.873	<.020	.15	.20
MAY 09...	<.1	1.4	184	164	.25	--	<.010	.416	<.020	.27	.33
JUN 20...	<.1	6.6	209	185	.28	.198	.011	.209	.077	.33	.44
JUL 14...	<.1	8.9	178	156	.24	--	<.010	.084	.067	.67	.85
AUG 16...	<.1	10.1	194	179	.26	--	<.010	.054	.079	.44	.62
SEP 13...	<.1	7.9	181	168	.25	--	<.010	.266	.056	.44	.62

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 16...	2.9	.015	.006	<.010	E10	8	5.0	.2	--	--
DEC 13...	6.2	.018	.026	.019	10	6	4.3	.7	7	70
JAN 04...	2.9	.044	.020	.016	E10	12	16	.4	10	79
10...	3.4	.067	.045	.031	10	4	4.9	.5	22	97
FEB 14...	2.6	.312	.144	.115	60	6	8.6	3.6	154	98
MAR 20...	1.5	.316	.204	.178	50	7	7.0	1.4	41	89
APR 19...	1.1	.010	.011	<.010	<10	6	2.2	<.2	3	92
MAY 09...	.74	.013	.012	<.010	<10	15	2.5	.3	5	90
JUN 20...	.65	.026	.018	.016	<10	30	2.6	.3	--	--
JUL 14...	.94	.038	.027	.012	E10	59	6.3	.5	6	68
AUG 16...	.67	.034	.013	<.010	10	35	4.5	.3	4	72
SEP 13...	.89	.047	.023	<.010	E10	5	4.5	1.0	7	87

E--Estimated

TENNESSEE RIVER BASIN

03599000 BIG ROCK CREEK AT LEWISBURG, TN

LOCATION.--Lat 35°26'56", long 86°47'09", Marshall County, Hydrologic Unit 06040002, on downstream side of center pier of bridge on U.S. Highway 431, State Highway 50/431, 800 ft east of Marshall County courthouse in Lewisburg, and at mile 17.9.

DRAINAGE AREA.--24.9 mi².

PERIOD OF RECORD.--October 1953 to September 1961, March 1966 to September 1968, July 1995 to June 2000 (discontinued). Occasional measurements, water years, 1902, 1932-33 (published as West Rock Creek) 1945, 1950-52, 1955, 1963-64, 1988, 1990; water years 1962-66, 1969-70, annual maximums. Prior to December 1953 monthly discharges only published in WSP 1726.

GAGE.--Data collection platform. Datum of gage is 699.78 ft (supplement adjustment of 1955) above sea level. Prior to July 1, 1995 at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1939 (discharge, 16,300 ft³/s) exceeded all previously known floods, including those in 1902, and 1856, from reports by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--October 1999 to June 2000: Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 10	1730	*9,710	*16.94	Apr 3	1430	1,980	9.99
Mar 19	2015	1,870	9.83				

No flow, Oct. 6, 7, 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO JUNE 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	2.1	2.2	2.8	13	17	24	25	7.3	---	---	---
2	.01	61	1.9	2.8	11	15	128	22	6.6	---	---	---
3	.02	9.6	1.9	5.5	9.8	15	726	110	6.4	---	---	---
4	.01	4.7	1.7	79	8.5	40	468	50	6.6	---	---	---
5	.01	3.0	2.1	21	7.3	26	180	26	7.0	---	---	---
6	.00	2.0	2.6	12	6.5	21	105	21	6.8	---	---	---
7	.00	1.6	2.2	8.9	6.3	18	70	18	5.7	---	---	---
8	.00	1.5	1.9	7.2	5.7	17	80	16	5.0	---	---	---
9	.58	1.3	2.0	18	5.2	16	54	16	4.6	---	---	---
10	.35	1.0	22	19	5.2	1370	45	15	4.6	---	---	---
11	.34	.92	13	13	5.7	527	50	14	4.5	---	---	---
12	.31	.89	9.3	9.7	17	159	96	13	4.9	---	---	---
13	.29	.85	117	8.5	39	91	187	12	4.5	---	---	---
14	.17	.85	55	6.8	137	60	176	11	4.4	---	---	---
15	.14	.78	23	6.1	51	44	109	9.9	4.4	---	---	---
16	.12	.78	15	5.6	30	36	75	9.4	5.7	---	---	---
17	.15	.75	10	5.1	21	30	58	8.9	7.0	---	---	---
18	.11	.74	8.3	5.1	96	26	44	8.5	11	---	---	---
19	.09	.78	7.1	4.7	175	550	36	7.8	11	---	---	---
20	.09	.96	6.0	4.2	68	469	38	7.9	8.6	---	---	---
21	.10	1.0	5.5	3.6	42	170	46	7.9	7.9	---	---	---
22	.12	.96	5.1	5.5	30	97	31	7.9	22	---	---	---
23	.11	.90	4.6	14	23	66	28	39	9.2	---	---	---
24	.11	2.2	4.3	12	19	49	234	15	6.7	---	---	---
25	.11	7.6	3.8	9.8	17	40	160	12	4.9	---	---	---
26	.12	13	3.6	8.1	16	34	88	10	4.2	---	---	---
27	.12	7.3	3.2	7.0	33	36	60	9.8	6.7	---	---	---
28	.14	4.9	3.1	6.2	24	30	52	10	7.2	---	---	---
29	.16	3.6	3.0	14	19	27	37	8.6	5.0	---	---	---
30	.17	2.6	2.7	20	---	27	30	8.6	4.2	---	---	---
31	.18	---	2.7	16	---	25	---	8.1	---	---	---	---
TOTAL	4.25	140.16	345.8	361.2	941.2	4148	3515	558.3	204.6	---	---	---
MEAN	.14	4.67	11.2	11.7	32.5	134	117	18.0	6.82	---	---	---
MAX	.58	61	117	79	175	1370	726	110	22	---	---	---
MIN	.00	.74	1.7	2.8	5.2	15	24	7.8	4.2	---	---	---
CFSM	.01	.19	.45	.47	1.30	5.37	4.71	.72	.27	---	---	---
IN.	.01	.21	.52	.54	1.41	6.20	5.25	.83	.31	---	---	---

TENNESSEE RIVER BASIN

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03599000 BIG ROCK CREEK AT LEWISBURG, TN--Continued

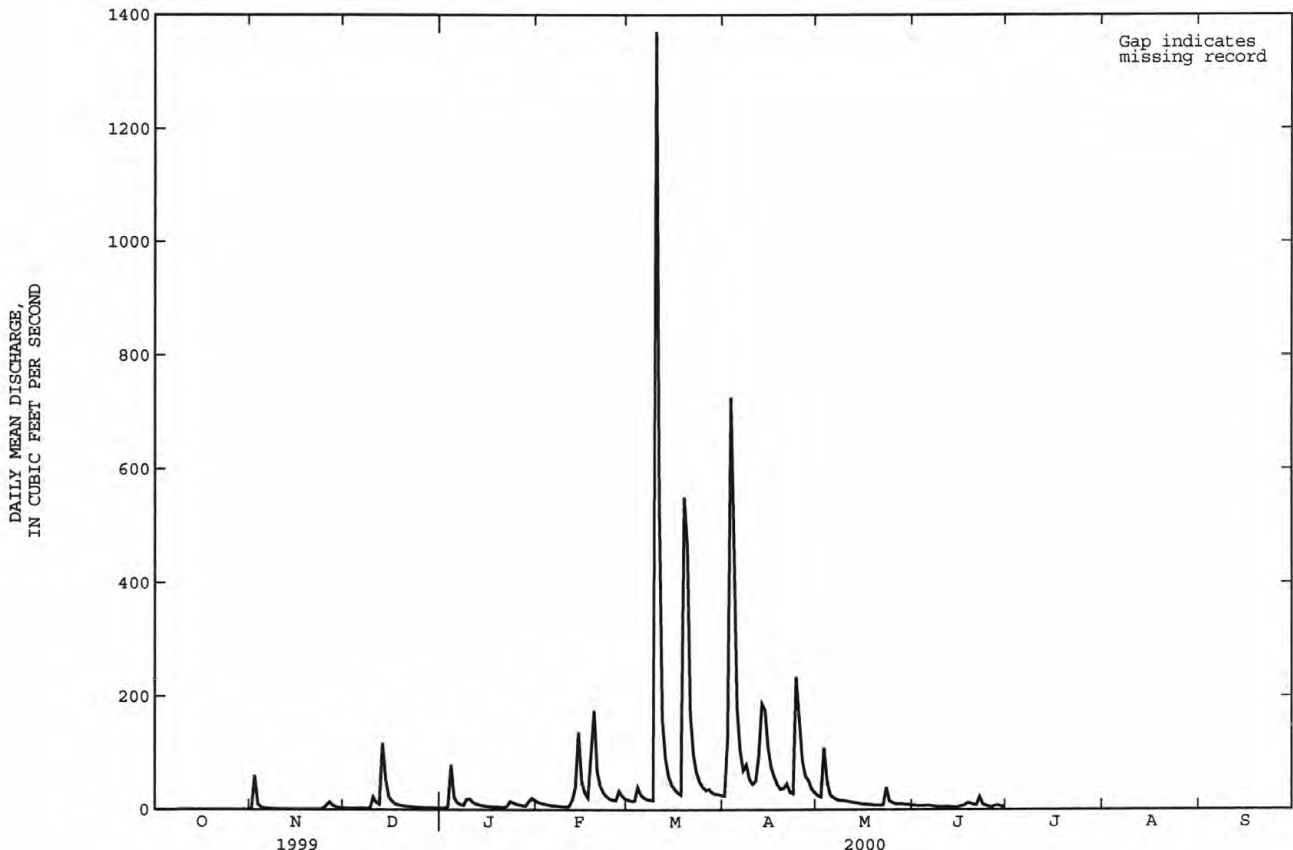
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12.5	34.1	68.3	81.1	77.0	98.5	53.1	44.4	22.8	13.0	7.92	13.6
MAX	89.5	146	166	215	172	234	117	168	136	75.3	49.4	74.3
(WY)	1996	1958	1997	1999	1956	1955	2000	1967	1997	1967	1967	1957
MIN	.002	1.16	9.08	11.7	23.3	32.9	11.4	5.65	1.77	.029	.006	.005
(WY)	1956	1955	1959	2000	1968	1954	1967	1956	1956	1954	1999	1955

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1954 - 2000

ANNUAL TOTAL	13842.85		
ANNUAL MEAN	37.9		46.1
HIGHEST ANNUAL MEAN			75.8
LOWEST ANNUAL MEAN			29.0
HIGHEST DAILY MEAN	1690	Jan 23	3800
LOWEST DAILY MEAN	.00	Aug 6	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 13	.01
INSTANTANEOUS PEAK FLOW			b16700
INSTANTANEOUS PEAK STAGE			c23.62
INSTANTANEOUS LOW FLOW			d.00
ANNUAL RUNOFF (CFSM)	1.52		a.00
ANNUAL RUNOFF (INCHES)	20.68		1.85
10 PERCENT EXCEEDS	87		77
50 PERCENT EXCEEDS	4.5		8.6
90 PERCENT EXCEEDS	.00		.30

- a Occurred at times 1954-57, 1968, 1999.
b From rating curve extended above 2,400 ft³/s on basis of contractd opening measurement of peak flow at site 0.6 mi upstream (drainage area 19.0 mi²).
c Current datum, from floodmarks.
d Also occurred Oct. 7, 8.



TENNESSEE RIVER BASIN

03599500 DUCK RIVER AT COLUMBIA, TN

LOCATION.--Lat 35°37'05", long 87°01'56", Maury County, Hydrologic Unit 06040003, on right bank 4 ft downstream from bridge on former U.S. Highway 31, 2 blocks north of public square in Columbia, 2.4 mi upstream from Rutherford Creek, and at mile 132.8.

DRAINAGE AREA.--1,208 mi².

PERIOD OF RECORD.--October 1904 to December 1908, April 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site, 1887-95, 1911 (fragmentary), 1947-71, published in reports of U.S. Weather Bureau. Discharge records furnished by Tennessee Valley Authority, 1983-1991.

REVISED RECORD.--WSP 783: 1929(M). WSP 853: Drainage area. WSP 1306: 1905-9, 1920-22, 1923(M).

GAGE.--Data collection platform. Datum of gage is 535.33 ft above sea level, supplementary adjustment of 1955. Prior to Jan. 9, 1925, nonrecording gages near this site; all gages at datum 2.37 ft higher prior to Oct. 1, 1933.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. Maximum discharge prior to regulation, 61,500 ft³/s, Mar. 17, 1973; maximum gage height, 51.75 ft Feb. 14, 1948; no flow Oct. 22, 1922, caused by regulation by power plant .75 mi upstream. Flow regulated by Normandy Lake (station 03596460) since January 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1902, reached a stage of 48.0 ft, present datum, discharge, 50,700 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,200 ft³/s, Apr. 5, gage height, 29.91 ft; minimum discharge, 143 ft³/s, Oct. 8, gage height, 1.64 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	164	259	198	1040	1230	1010	2080	396	661	228	201
2	160	410	242	199	851	962	1020	1840	356	543	242	212
3	155	724	209	219	697	791	5630	1350	331	486	244	211
4	152	664	213	705	596	851	17900	2020	311	452	495	207
5	152	439	216	1840	527	2210	20500	1760	295	425	343	200
6	151	307	219	1560	465	1850	11800	1580	289	351	269	200
7	145	261	223	929	411	1340	5990	1200	280	381	227	196
8	146	238	219	720	369	1000	4640	816	271	318	217	191
9	175	222	209	746	343	785	4200	693	262	303	215	187
10	186	201	236	1300	320	846	3490	673	251	303	557	186
11	195	198	360	1240	311	7040	2640	588	242	285	576	180
12	199	194	559	941	425	8840	3640	539	231	305	314	191
13	177	190	1810	838	1480	3860	5290	495	218	265	222	292
14	160	184	2800	697	6590	2360	5410	440	212	244	205	380
15	154	184	3100	508	5220	1740	5450	397	207	231	191	292
16	159	185	1620	435	3150	1390	4000	366	204	229	188	236
17	160	190	995	407	2060	1530	2930	342	224	220	181	200
18	159	180	743	388	1740	1970	2310	326	343	213	183	185
19	162	192	620	373	2960	3080	1920	315	487	208	183	179
20	159	224	544	362	4830	15800	1570	334	752	225	179	178
21	157	226	485	334	3060	19500	1830	323	778	238	177	170
22	155	226	443	319	2060	10900	3820	312	498	233	181	168
23	155	244	356	350	1550	5830	2190	694	1620	228	179	175
24	155	243	301	502	1240	4500	2690	566	1190	224	176	215
25	152	246	279	752	1040	3660	7430	585	704	215	174	274
26	152	310	265	695	889	2520	7540	528	589	211	179	453
27	153	443	254	586	1090	2230	5100	639	1930	206	191	660
28	155	417	246	499	1610	2230	4270	815	1740	206	201	451
29	156	341	241	458	1570	2010	3720	732	1140	211	241	322
30	155	290	229	560	---	1820	2600	600	861	218	240	263
31	155	---	210	957	---	1380	---	478	---	218	215	---
TOTAL	4975	8537	18705	20617	48494	116055	152530	24426	17212	9056	7613	7455
MEAN	160	285	603	665	1672	3744	5084	788	574	292	246	248
MAX	199	724	3100	1840	6590	19500	20500	2080	1930	661	576	660
MIN	145	164	209	198	311	785	1010	312	204	206	174	168
(†)	-3600	-2700	-2800	+500	+3500	+5900	+6900	+200	+1000	-2700	-2800	-3300
MEAN(†)	44.4	195	513	681	1793	3934	5314	794	607	205	155	138
CFSM(†)	.04	.16	.42	.56	1.48	3.26	4.40	.66	.50	.17	.13	.11
IN. (†)	.04	.18	.49	.65	1.60	3.75	4.91	.76	.56	.20	.15	.13
CAL YR 1999	MEAN(†)	1191	CFSM(†)	.99	IN. (†)	13.42						
WTR YR 2000	MEAN(†)	1769	CFSM(†)	1.46	IN. (†)	19.87						

(†) Change in contents, in cfs-days in Normandy Lake.

(†) Adjusted for change in content.

NOTE.--Contents (cfs-days) for adjustments furnished by Tennessee Valley Authority.

TENNESSEE RIVER BASIN

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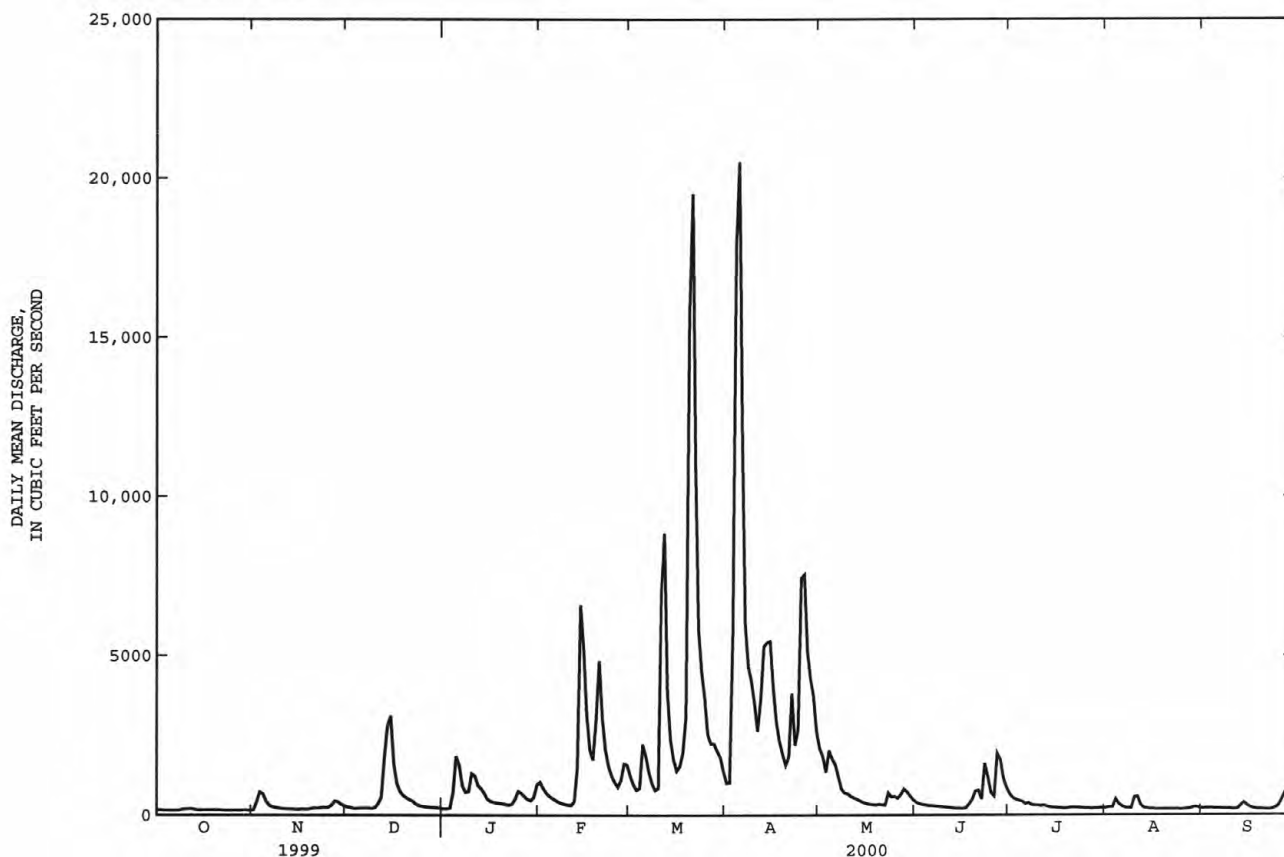
03599500 DUCK RIVER AT COLUMBIA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	813	2101	3534	3678	3478	4218	2696	2002	1083	676	449	618
MAX	3642	5925	10360	8513	9901	10090	7464	9106	5081	4740	1365	3832
(WY)	1990	1987	1991	1979	1991	1980	1994	1983	1997	1989	1998	1979
MIN	160	236	418	273	953	1104	325	244	167	220	172	150
(WY)	2000	1981	1981	1986	1978	1985	1986	1988	1988	1988	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	*WATER YEARS 1977 - 2000
ANNUAL TOTAL	646725	435675	
ANNUAL MEAN	1772	1190	2107
HIGHEST ANNUAL MEAN			3282
LOWEST ANNUAL MEAN			553
HIGHEST DAILY MEAN	34700	Jan 24	20500
LOWEST DAILY MEAN	138	Sep 18	145
ANNUAL SEVEN-DAY MINIMUM	144	Sep 13	152
INSTANTANEOUS PEAK FLOW			21200
INSTANTANEOUS PEAK STAGE			29.91
10 PERCENT EXCEEDS	4280		2940
50 PERCENT EXCEEDS	362		354
90 PERCENT EXCEEDS	155		179

* Regulated period only.



TENNESSEE RIVER BASIN

03600085 CARTERS CREEK AT PETTY LANE NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'39", long 86°59'19", Maury County, Hydrologic Unit 06040003, at bridge on Petty Lane, 0.8 mile north of Carters Creek, and at mile 4.7.

DRAINAGE AREA.--16.6 mi².

PERIOD OF RECORD.--October 1986 to current year

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY	DIS-	SPE-	TEMPER-	PH	BARO-	OXYGEN,	OXYGEN,
		ANA- LYZING SAMPLE (CODE NUMBER) (00028)	CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)		WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	METRIC PRES- SURE (MM OF HG) (00025)		
OCT 26...	0900	80020	.26	470	7.9	6.9	755	6.6	56
FEB 07...	0945	80020	5.9	375	4.1	8.1	755	13.1	101
JUL 06...	0850	80020	.74	405	21.5	7.3	750	5.0	57
AUG 15...	0815	80020	.19	438	20.5	7.4	750	3.4	39
DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT 26...	210	600	<3	20.8	<.1	<1	<1	<1	<.3
FEB 07...	--	77	<3	14.0	<.1	<1	<1	<1	<.3
JUL 06...	1400	2200	<3	20.9	<.1	E1	2	<1	<.3
AUG 15...	2200	880	<3	25.3	<.1	E1	<1	<1	<.3
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CYANIDE TOTAL (MG/L AS CN) (00720)	OIL AND GREASE, TOTAL RECOV- ERABLE GRAVI- METRIC (MG/L) (00556)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 26...	<2	<3	<1	<31	<.01	<1	3	.00	56
FEB 07...	<2	<3	<1	<31	<.01	<1	1	.02	75
JUL 06...	<2	<3	<1	<31	<.01	4	5	.01	82
AUG 15...	<2	<3	<1	<31	<.01	<1	9	.00	85

E--Estimated

TENNESSEE RIVER BASIN

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03600086 CARTERS CREEK TRIBUTARY NEAR CARTERS CREEK, TN

LOCATION.--Lat 35°43'34", long 86°59'19", Maury County, Hydrologic Unit 06040003, at culvert on Carters Creek Road, 0.7 mile north of Carters Creek.

DRAINAGE AREA.--2.94 mi².

PERIOD OF RECORD.--October 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY	DIS-	SPE-	TEMPER-	PH	BARO-	OXYGEN,	OXYGEN,
		ANA- LYZING SAMPLE (CODE NUMBER) (00028)	CHARGE, INST. CUBIC FEET PER SECOND (00061)	CIFIC CON- DUCT- ANCE (US/CM) (00095)		WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	METRIC PRES- SURE (MM OF HG) (00025)		
OCT 26...	0935	80020	.18	966	9.0	7.5	755	9.3	81
FEB 07...	1045	80020	1.2	1040	6.6	8.0	755	12.7	105
JUL 06...	0935	80020	1.7	439	24.5	7.4	750	5.3	65
AUG 15...	0915	80020	.10	729	20.0	7.6	750	5.5	62
DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT 26...	48	180	<3	25.3	<.1	<1	<1	<1	<.3
FEB 07...	--	K8	<3	20.3	<.1	E1	<1	<1	<.3
JUL 06...	450	390	<3	13.1	<.1	<1	E1	<1	<.3
AUG 15...	K930	980	<3	20.7	<.1	E1	<1	<1	<.3
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CYANIDE TOTAL (MG/L AS CN) (00720)	OIL AND GREASE, TOTAL RECOV- ERABLE GRAVI- METRIC (MG/L) (00556)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 26...	<2	<3	<1	<31	<.01	1	2	.00	43
FEB 07...	<2	<3	<1	<31	<.01	<1	3	.01	56
JUL 06...	<2	<3	<1	<31	<.01	3	4	.02	71
AUG 15...	<2	<3	<1	<31	<.01	<1	16	.00	64

K--Results based on non-ideal colony count.

E--Estimated

TENNESSEE RIVER BASIN

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN

LOCATION.--Lat 35°43'02", long 86°59'45", Maury County, Hydrologic Unit 06040003, on left bank at end of Butler Road bridge, 0.1 mi west of Carters Creek, 0.3 mi upstream from Terrell Branch, 3.7 mi upstream from Rutherford Creek, and at mile 3.7.

DRAINAGE AREA.--20.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year. Occasional low-flow measurements, water year 1986.

REVISED RECORD.--WDR TN-97-1: 1992-96 (M): 1992-96 (P).

GAGE.--Data collection platform, crest-stage gage and concrete weir. Datum of gage is 605.94 ft above sea level.

REMARKS.--Records good. Diurnal fluctuation caused by industrial development upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 13	2030	*1,530	*9.77	No other peak greater than base discharge.			

Minimum discharge 0.15 ft³/s, Sept. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.46	1.4	2.2	17	28	21	26	4.3	1.6	.67	.30
2	.43	15	1.3	2.2	14	24	38	23	3.5	1.2	.52	.44
3	.34	8.5	1.3	25	13	22	246	23	3.0	1.0	.41	3.4
4	.32	3.8	1.3	116	11	21	194	24	2.7	1.4	.88	1.5
5	.31	2.4	2.1	38	9.1	18	105	20	2.8	2.9	1.2	.72
6	.31	1.6	4.4	26	8.1	16	74	16	2.2	1.7	.73	.44
7	.31	1.1	3.2	19	7.6	15	57	14	1.9	1.3	.52	.36
8	.30	.96	2.7	15	6.9	14	48	13	2.0	.88	.75	.32
9	5.5	1.0	2.4	38	6.4	13	38	11	1.7	.72	1.6	.30
10	6.3	.92	8.5	38	6.1	12	33	13	1.5	.63	.84	.27
11	3.1	.76	8.2	27	6.3	23	49	10	1.3	.70	.55	.24
12	1.7	.74	13	22	19	23	71	8.8	1.3	.58	.44	.32
13	1.0	.75	86	20	229	19	62	8.2	1.2	.52	.35	1.1
14	.80	.72	47	15	230	16	97	6.6	1.0	.51	.27	.71
15	.68	.68	27	12	94	15	83	5.7	.97	.42	.25	.49
16	.63	.64	18	12	65	21	63	5.1	1.2	.40	.25	.31
17	.60	.64	13	11	117	29	55	4.7	1.7	.41	.24	.23
18	.50	.59	10	11	179	24	45	4.1	4.0	.42	.23	.19
19	.49	.59	8.1	9.8	135	211	38	3.6	8.1	.49	.25	.17
20	.46	.91	6.8	9.1	82	225	33	3.6	5.7	.44	.22	.16
21	.45	1.1	5.8	7.8	60	110	29	4.1	3.7	.72	.23	.15
22	.43	.96	4.9	9.0	48	75	25	3.8	3.6	.60	.22	.18
23	.38	.84	4.2	11	39	57	23	11	3.2	.42	.22	1.0
24	.35	.91	3.8	15	35	47	78	9.2	2.2	.38	.22	7.1
25	.33	3.6	3.3	15	30	39	118	9.7	1.9	.31	.22	8.8
26	.35	12	3.2	12	27	33	70	11	2.6	.31	.25	4.2
27	.34	6.5	3.0	9.9	45	34	53	24	2.0	.30	1.3	2.0
28	.35	3.6	2.8	8.8	37	29	46	14	2.4	.29	2.0	1.0
29	.35	2.1	2.4	12	31	25	36	9.3	2.2	.29	1.0	.91
30	.34	1.6	2.3	19	---	27	30	7.0	1.8	.63	.88	.61
31	.34	---	2.2	20	---	24	---	5.0	---	.90	.70	---
TOTAL	28.84	75.97	303.6	607.8	1607.5	1289	1958	351.5	77.67	23.37	18.41	37.92
MEAN	.93	2.53	9.79	19.6	55.4	41.6	65.3	11.3	2.59	.75	.59	1.26
MAX	6.3	15	86	116	230	225	246	26	8.1	2.9	2.0	8.8
MIN	.30	.46	1.3	2.2	6.1	12	21	3.6	.97	.29	.22	.15
CFSM	.05	.13	.49	.98	2.76	2.07	3.25	.56	.13	.04	.03	.06
IN.	.05	.14	.56	1.12	2.98	2.39	3.62	.65	.14	.04	.03	.07

TENNESSEE RIVER BASIN

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03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN--Continued

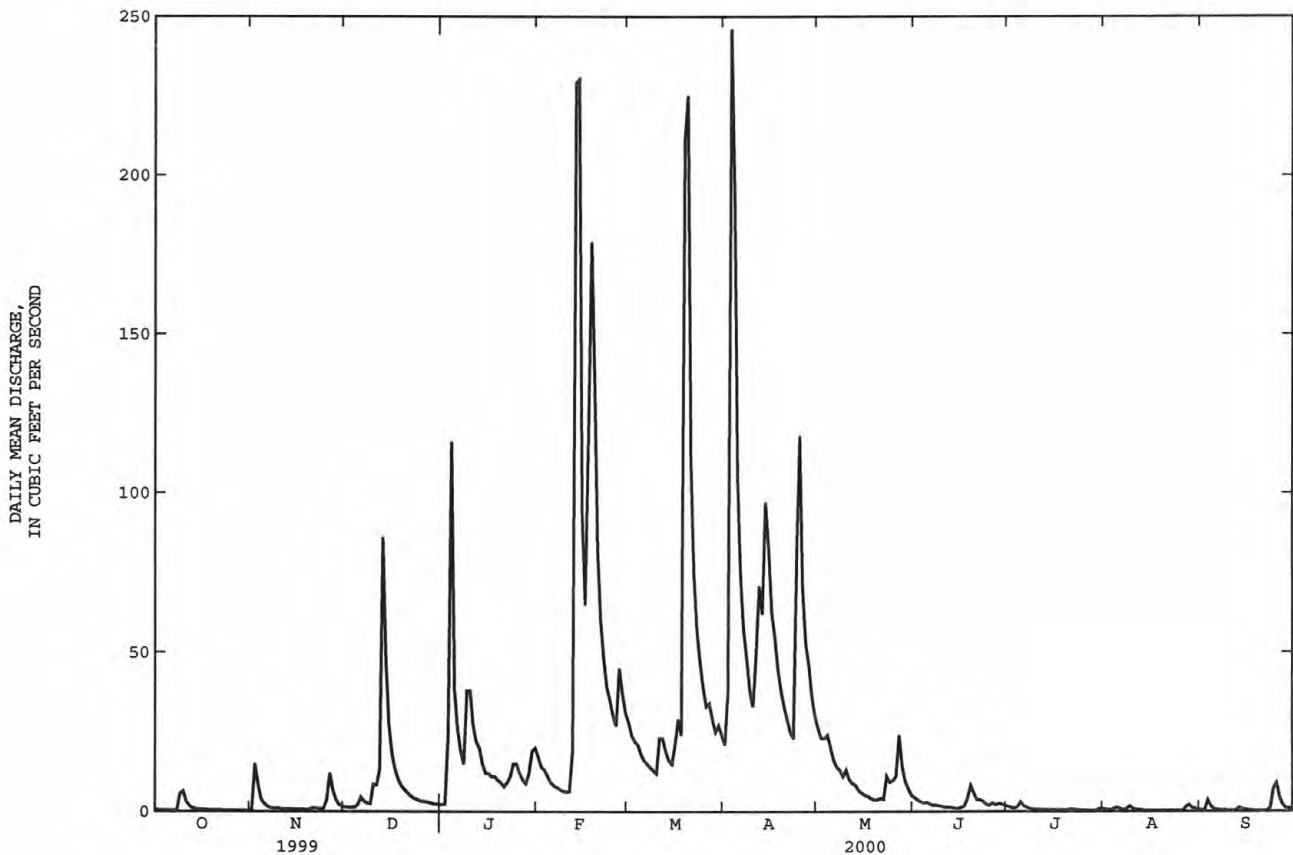
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.57	27.7	55.1	60.6	69.4	67.4	38.7	28.3	16.7	9.54	3.56	6.12
MAX	44.8	64.7	126	119	146	138	98.7	93.4	54.2	45.5	9.53	20.3
(WY)	1990	1989	1991	1999	1990	1994	1994	1991	1998	1989	1998	1989
MIN	.51	1.35	9.79	19.6	20.8	20.5	13.9	3.11	.51	.54	.47	.64
(WY)	1988	1999	2000	2000	1995	1988	1992	1988	1988	1988	1987	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	8913.35		6379.58			
ANNUAL MEAN	24.4		17.4		32.4	
HIGHEST ANNUAL MEAN					50.0	
LOWEST ANNUAL MEAN					17.4	
HIGHEST DAILY MEAN	834	Jan 23	246	Apr 3	1430	Feb 3 1990
LOWEST DAILY MEAN	.20	Sep 10	.15	Sep 21	.12	Aug 15 1987
ANNUAL SEVEN-DAY MINIMUM	.22	Sep 6	.20	Sep 16	.15	Jun 25 1988
INSTANTANEOUS PEAK FLOW			1530	Feb 13	3300	May 3 1993
INSTANTANEOUS PEAK STAGE			9.77	Feb 13	15.90	May 3 1993
INSTANTANEOUS LOW FLOW			a.15	Sep 20	b.11	Aug 15 1987
ANNUAL RUNOFF (CFSM)	1.21		.87		1.61	
ANNUAL RUNOFF (INCHES)	16.50		11.81		21.89	
10 PERCENT EXCEEDS	63		46		69	
50 PERCENT EXCEEDS	3.9		3.6		12	
90 PERCENT EXCEEDS	.31		.33		.75	

a Also occurred Sept. 21.

b Also occurred Aug. 16, 1987, June 26, 1988.



TENNESSEE RIVER BASIN

03600088 CARTERS CREEK AT BUTLER ROAD AT CARTERS CREEK, TN--Continued

PERIOD OF RECORD.--October 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 26...	1010	80020	.35	698	7.3	7.6	755	10.5	88
FEB 07...	1145	80020	7.5	480	7.0	8.6	755	13.5	112
JUL 06...	1050	80020	1.6	416	24.5	7.7	750	7.1	87
AUG 15...	0945	80020	.25	536	21.0	7.8	750	6.1	69
DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT 26...	30	240	<3	21.5	<.1	E1	<1	<1	<.3
FEB 07...	--	20	<3	14.4	<.1	<1	<1	1	<.3
JUL 06...	240	200	<3	16.6	<.1	<1	E1	E1	<.3
AUG 15...	170	730	<3	23.2	<.1	<1	<1	<1	<.3
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CYANIDE TOTAL (MG/L AS CN) (00720)	OIL AND GREASE, TOTAL RECOV- ERABLE GRAVI- METRIC (MG/L) (00556)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 26...	<2	<3	<1	<31	<.01	<1	2	.00	83
FEB 07...	<2	<3	<1	<31	<.01	<1	1	.02	57
JUL 06...	<2	<3	<1	<31	<.01	3	4	.02	82
AUG 15...	<2	<3	<1	<31	<.01	<1	9	.01	88

E--Estimated

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TENNESSEE RIVER BASIN

03602219 PINEY RIVER AT CEDAR HILL, TN

LOCATION.--Lat 35°59'43", long 87°26'22", Dickson County, Hydrologic Unit 06040003, on right bank 300 ft upstream of Interstate Highway 40 bridge, 0.2 mi southeast of Cedar Hill, 0.5 mi upstream from Double Branch, and at mile 22.

DRAINAGE AREA.--46.6 mi².

PERIOD OF RECORD.--October 1987 to current year, discharge for stage of 7.00 ft and below only.

GAGE.--Data collection platform. Datum of gage is 552.20 ft above sea level.

REMARKS.--Records good. The City of Dickson diverts water for municipal water supply at confluence of West Piney River, 1.6 mi upstream from gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 19.78 ft, May 27, 1991; minimum discharge, 5.9 ft³/s, Sept. 19, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 7.61 ft, Feb. 13; minimum discharge, 5.9 ft³/s, Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	12	13	14	43	28	73	46	17	14	7.2
2	9.8	18	12	12	13	39	28	65	42	16	17	7.3
3	9.7	14	12	17	13	36	56	103	39	16	13	7.2
4	10	12	12	57	13	34	107	121	37	15	17	7.1
5	9.9	12	13	24	14	32	93	126	35	15	14	6.8
6	9.3	12	14	20	13	29	79	101	33	15	13	7.0
7	8.5	12	13	18	13	28	70	85	30	15	13	7.1
8	8.9	12	13	18	13	26	84	74	28	14	12	7.1
9	41	11	12	18	13	25	68	67	27	14	11	7.3
10	18	12	19	17	14	24	62	70	26	14	11	7.3
11	13	12	15	16	14	25	68	58	25	13	11	7.1
12	13	12	26	15	16	23	84	53	23	15	11	6.9
13	12	12	61	17	---	22	79	52	22	17	10	7.0
14	11	11	30	16	161	22	75	46	22	16	10	6.9
15	11	11	22	16	70	21	68	42	24	15	9.9	6.4
16	11	11	19	15	52	22	62	39	25	14	9.4	6.6
17	11	12	17	15	44	22	82	37	25	13	9.2	6.6
18	11	12	17	15	58	21	75	34	27	13	9.3	6.5
19	11	12	16	14	50	45	68	33	26	14	9.5	6.4
20	11	12	15	14	43	70	64	33	23	14	9.5	6.3
21	11	13	15	14	39	59	60	32	22	14	9.3	6.4
22	11	12	14	14	36	51	54	31	21	14	9.0	6.5
23	11	12	13	14	32	46	50	37	20	13	8.8	7.5
24	11	12	13	14	34	42	171	32	19	13	9.5	9.9
25	11	12	13	14	31	39	276	120	19	12	9.3	11
26	11	13	13	14	29	36	199	84	19	12	17	9.7
27	11	12	13	14	61	38	143	126	19	12	14	8.6
28	11	12	13	13	54	34	122	96	19	12	10	8.5
29	11	12	12	14	48	32	97	75	18	15	8.9	7.9
30	11	12	12	14	---	31	82	63	17	46	8.1	7.8
31	11	---	12	14	---	29	---	54	---	17	7.5	---
TOTAL	371.1	365	513	520	---	1046	2654	2062	778	475	345.2	221.9
MEAN	12.0	12.2	16.5	16.8	---	33.7	88.5	66.5	25.9	15.3	11.1	7.40
MAX	41	18	61	57	---	70	276	126	46	46	17	11
MIN	8.5	11	12	12	---	21	28	31	17	12	7.5	6.3
CFSM	.26	.26	.36	.36	---	.72	1.90	1.43	.56	.33	.24	.16
IN.	.30	.29	.41	.42	---	.84	2.12	1.65	.62	.38	.28	.18

TENNESSEE RIVER BASIN

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03603000 DUCK RIVER ABOVE HURRICANE MILLS, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 35°55'48", long 87°44'35", Humphreys County, Hydrologic Unit 06040003, on left bank 0.4 mi downstream from Tumbling Creek, 1.3 mi upstream from bridge on State Highway 13, 3.6 mi southeast of Hurricane Mills, and at mile 26.0.

Drainage.--2,557 mi².

PERIOD OF RECORD.--October 1966 to September 1967, October 1973 to September 1979, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, CENT SATUR-ATION (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL /100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
OCT 04...	1130	603	198	8.0	19.0	761	5	6.6	71	24	16	87
NOV 15...	1130	681	210	8.0	13.5	770	4	9.1	86	--	K10	99
DEC 14...	1100	2750	203	8.0	10.0	765	20	10.5	93	--	280	93
JAN 11...	1145	2020	267	8.0	8.5	757	10	11.1	95	--	65	130
FEB 14...	0945	3950	261	8.4	9.0	753	6	10.2	89	--	260	120
MAR 13...	0730	11700	281	8.1	13.0	764	340	8.3	79	--	1100	140
21...	1100	18000	263	8.1	12.0	760	250	8.9	83	--	4200	120
APR 17...	1100	7400	280	8.0	14.5	766	18	9.5	93	--	200	140
MAY 03...	0900	4040	249	8.1	18.5	755	7	8.7	94	--	29	110
JUN 12...	1045	824	253	8.0	26.5	759	8	--	--	--	E11	120
JUL 12...	1100	818	218	8.4	29.5	750	11	--	--	--	K30	100
AUG 14...	1100	849	200	8.1	27.5	768	13	--	--	--	40	89
SEP 14...	1045	591	209	8.0	25.0	755	9	--	--	--	20	89

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT 04...	7	29.3	3.37	4.7	10	.2	1.5	97	79	9.3	4.4	.1
NOV 15...	15	33.6	3.72	3.7	7	.2	1.5	102	84	9.2	5.1	<.1
DEC 14...	2	31.3	3.55	4.2	9	.2	1.5	111	91	13.0	5.2	.1
JAN 11...	11	45.0	4.17	3.8	6	.1	1.7	144	118	15.4	6.5	.1
FEB 14...	21	42.6	4.00	4.1	7	.2	1.2	124	102	13.6	6.6	<.1
MAR 13...	14	48.6	3.68	2.5	4	.1	1.8	149	123	11.6	5.3	<.1
21...	10	44.0	3.65	2.2	4	.1	1.5	140	115	11.2	4.1	.2
APR 17...	0	49.6	3.89	2.1	3	.1	1.2	170	139	10.7	3.6	.2
MAY 03...	--	39.4	3.46	2.4	4	.1	1.1	139	114	8.9	3.7	.1
JUN 12...	17	39.9	3.89	3.7	6	.1	1.5	120	98	9.5	5.1	.1
JUL 12...	4	34.4	3.54	3.0	6	.1	1.7	117	97	8.3	4.1	<.1
AUG 14...	27	29.5	3.79	3.9	9	.2	1.6	76	62	8.3	5.1	.1
SEP 14...	6	29.6	3.57	5.1	11	.2	1.7	101	84	9.0	5.3	.2

K--Results based on non-ideal colony count.

TENNESSEE RIVER BASIN

03603000 DUCK RIVER ABOVE HURRICANE MILLS, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 04...	6.6	117	108	.16	--	<.010	.155	<.020	.15	.12	.28	.122
NOV 15...	5.5	121	114	.16	--	<.010	.281	<.020	E.10	.20	.48	.133
DEC 14...	3.6	118	119	.16	--	<.010	.363	<.020	.13	.29	.65	.283
JAN 11...	3.9	159	157	.22	--	<.010	1.11	<.020	.11	.21	1.3	.144
FEB 14...	1.2	150	136	.20	--	<.010	.457	<.020	.13	.26	.72	.097
MAR 13...	3.6	170	155	.23	1.04	.011	1.05	.039	.34	1.6	2.6	--
21...	4.9	171	145	.23	--	<.010	.931	.027	.41	1.3	2.3	2.11
APR 17...	5.7	169	165	.23	--	<.010	.849	<.020	.15	.28	1.1	.227
MAY 03...	3.7	148	134	.20	--	<.010	.599	<.020	E.10	.26	.86	.147
JUN 12...	5.8	150	130	.20	--	<.010	.340	<.020	.16	.20	.54	.140
JUL 12...	6.3	125	119	.17	--	<.010	<.050	<.020	.12	.50	--	.151
AUG 14...	5.9	113	96	.15	--	<.010	<.050	<.020	.16	.31	--	.241
SEP 14...	7.2	121	113	.16	--	<.010	.217	<.020	.12	.23	.45	.163

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC, (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC, (UG/L) (04028)
OCT 04...	.127	.089	<10	24	1.4	.2	--	--	--	--	--
NOV 15...	.116	.094	E10	24	1.5	.2	--	--	--	--	--
DEC 14...	.099	.091	E10	9	1.6	.8	--	--	--	--	--
JAN 11...	.130	.111	<10	8	1.9	.2	--	--	--	--	--
FEB 14...	.060	.044	E10	7	1.5	.3	<.002	<.002	.025	<.002	<.002
MAR 13...	.147	.129	<10	E2	3.4	>5.0	<.002	<.002	.026	<.002	<.002
21...	.130	.173	E10	3	3.0	5.4	<.002	<.002	.011	<.002	<.002
APR 17...	.143	.121	<10	5	2.2	.3	<.002	.005	.158	<.002	<.002
MAY 03...	.094	.078	<10	6	1.5	.2	<.002	<.002	.196	<.002	<.002
JUN 12...	.140	.108	<10	13	1.3	.5	<.002	<.002	.389	<.002	<.002
JUL 12...	.125	.104	<10	E2	1.8	1.7	<.002	<.002	.070	<.002	<.002
AUG 14...	.138	.118	<10	10	1.8	.5	<.002	<.002	.070	<.002	<.002
SEP 14...	.149	.129	<10	24	1.5	.5	<.002	<.002	.027	<.002	<.002

E--Estimated

TENNESSEE RIVER BASIN

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03603000 DUCK RIVER ABOVE HURRICANE MILLS, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL		DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)
			ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)									
OCT 04...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.004	<.004	E.010	<.002	<.001	<.003	<.004	<.005	<.004	.007	<.006	
MAR 13...	<.004	<.004	E.023	.004	<.001	<.003	<.004	<.005	<.004	.010	<.006	
21...	<.004	<.004	E.013	.006	<.001	<.003	<.004	<.005	<.004	.008	<.006	
APR 17...	<.004	<.004	E.025	E.003	<.001	<.003	<.004	<.005	<.004	.023	<.006	
MAY 03...	<.004	<.004	E.031	<.002	<.001	<.003	<.004	<.005	<.004	.025	<.006	
JUN 12...	<.004	<.004	E.059	<.002	<.001	<.003	<.004	<.005	<.004	.026	<.006	
JUL 12...	<.004	<.004	E.033	<.002	<.001	<.003	<.004	<.005	<.004	.008	<.006	
AUG 14...	<.004	<.004	E.029	<.002	<.001	<.003	<.004	<.005	<.004	.005	<.006	
SEP 14...	<.004	<.004	E.013	<.002	<.001	<.003	<.004	<.005	<.004	E.003	<.006	
DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	
OCT 04...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.004	<.007	<.018	.007	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
MAR 13...	<.004	<.007	E.004	.008	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
21...	<.004	<.007	E.008	.011	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
APR 17...	<.004	<.007	E.010	E.004	<.002	<.003	E.035	<.002	<.003	<.017	<.004	
MAY 03...	<.004	<.007	E.006	.017	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
JUN 12...	<.004	<.007	E.010	.008	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
JUL 12...	<.004	<.007	E.007	.008	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
AUG 14...	<.004	<.007	E.007	.019	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
SEP 14...	<.004	<.007	E.015	.008	<.002	<.003	<.003	<.002	<.003	<.017	<.004	

E--Estimated

TENNESSEE RIVER BASIN

03603000 DUCK RIVER ABOVE HURRICANE MILLS, TN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAR 13...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
21...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
APR 17...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
MAY 03...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUN 12...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
JUL 12...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
AUG 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
SEP 14...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	<.002
DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 04...	--	--	--	--	--	--	--	--	--	11	91
NOV 15...	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	--	--	--	47	89
JAN 11...	--	--	--	--	--	--	--	--	--	57	91
FEB 14...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	16	85
MAR 13...	<.003	<.004	<.013	.014	<.007	<.013	<.001	<.002	<.002	477	94
21...	<.003	<.004	<.013	.016	<.007	<.013	<.001	<.002	<.002	392	88
APR 17...	<.003	<.004	<.013	.018	<.007	<.013	<.001	<.002	<.002	23	87
MAY 03...	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	13	86
JUN 12...	<.003	<.004	<.013	E.010	<.007	<.013	<.001	<.002	<.002	14	86
JUL 12...	<.003	<.004	<.013	.011	<.007	<.013	<.001	<.002	<.002	16	92
AUG 14...	<.003	<.004	<.013	E.010	<.007	<.013	<.001	<.002	<.002	19	88
SEP 14...	<.003	<.004	<.013	.013	<.007	<.013	<.001	<.002	<.002	11	94

E--Estimated

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TENNESSEE RIVER BASIN

03604000 BUFFALO RIVER NEAR FLAT WOODS, TN
(Hydrologic bench-mark station)

LOCATION.--Lat 35°29'45", long 87°49'58", Perry County, Hydrologic Unit 06040004, on right bank 0.4 mi downstream from Little Opossum Creek, 0.5 mi downstream from bridge on State Highway 13, 1.3 mi north of Flat Woods, 3.9 mi upstream from Sinking Creek, and at mile 58.7.

DRAINAGE AREA.--447 mi².

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WSP 758: 1933. WSP 803: 1935. WSP 823: Drainage area. WSP 1436: 1921(M), 1922-24, 1925(M), 1927(M), 1934(M), WRD TN-71: 1970.

GAGE.--Data collection platform. Datum of gage is 513.58 ft above sea level. Prior to May 27, 1934, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, that of May 27, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 11	2300	*6,470	*11.07	Apr 4	1600	4,610	9.21

Minimum discharge, 148 ft³/s, Aug. 24, 25, Sept. 20

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	215	243	256	311	534	455	617	272	257	198	170
2	200	393	237	254	300	545	500	570	263	238	275	165
3	190	508	237	272	291	479	887	536	258	224	213	163
4	185	354	247	686	286	448	3830	598	259	214	218	166
5	183	280	261	661	280	535	2790	647	263	211	222	170
6	186	256	279	496	273	523	1800	597	271	216	210	166
7	188	244	290	426	269	478	1280	541	254	239	199	169
8	187	237	275	384	265	446	1040	493	238	244	188	168
9	223	234	267	411	261	418	906	462	230	216	191	181
10	303	231	302	501	257	397	789	471	224	201	221	186
11	303	231	364	457	256	3400	714	476	219	194	210	185
12	250	234	340	414	268	2950	906	442	213	190	200	185
13	222	234	699	388	314	1210	1080	392	210	188	190	182
14	210	232	767	363	2670	869	1330	365	208	187	178	176
15	205	232	532	336	1940	711	1310	346	205	181	172	177
16	203	231	430	304	1080	633	1140	335	201	175	167	163
17	203	229	377	293	797	811	1000	324	220	169	163	154
18	204	227	345	291	761	844	926	312	506	166	160	151
19	204	229	330	287	803	846	843	296	486	166	156	151
20	204	244	320	278	891	1910	755	296	440	171	155	150
21	204	272	295	268	776	2180	689	322	394	206	156	152
22	204	272	281	271	669	1420	636	320	347	245	154	161
23	204	258	272	340	599	1080	595	308	297	216	152	176
24	202	253	266	370	547	887	690	310	269	191	149	292
25	202	260	263	347	516	764	1150	306	249	181	152	468
26	204	280	260	329	481	684	1100	308	236	172	163	514
27	207	314	259	315	540	633	954	310	289	167	190	321
28	210	291	259	301	607	582	859	313	313	167	245	241
29	210	268	257	300	572	536	772	317	346	168	219	208
30	210	252	256	324	---	506	682	295	290	180	200	193
31	209	---	256	324	---	489	---	281	---	188	182	---
TOTAL	6518	7995	10066	11247	17880	28748	32408	12506	8470	6128	5848	6104
MEAN	210	266	325	363	617	927	1080	403	282	198	189	203
MAX	303	508	767	686	2670	3400	3830	647	506	257	275	514
MIN	183	215	237	254	256	397	455	281	201	166	149	150
MED	204	248	275	329	516	633	906	335	261	190	190	173
CFSM	.47	.60	.73	.81	1.38	2.07	2.42	.90	.63	.44	.42	.46
IN.	.54	.67	.84	.94	1.49	2.39	2.70	1.04	.70	.51	.49	.51

TENNESSEE RIVER BASIN

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03604000 BUFFALO RIVER NEAR FLAT WOODS, TN--Continued
(Hydrologic bench-mark station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

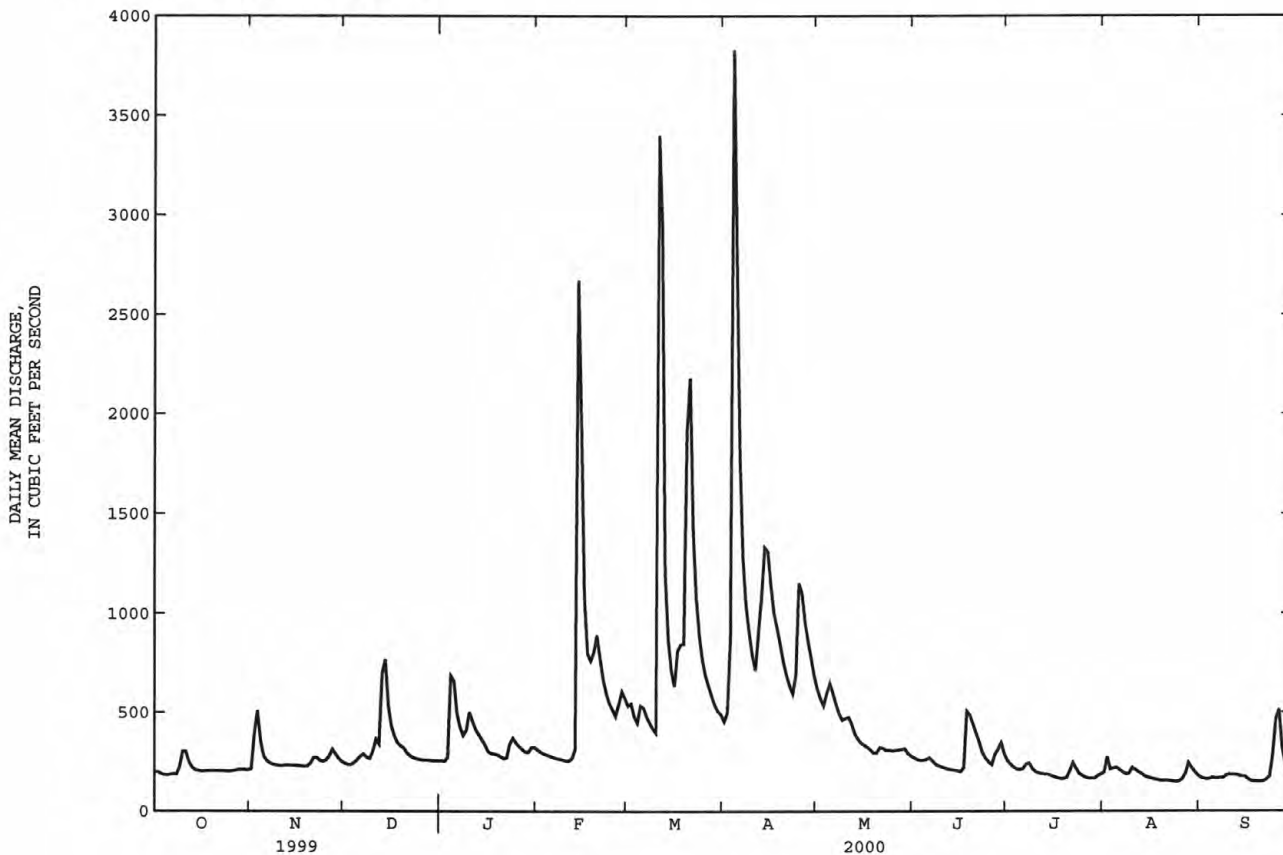
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	283	519	925	1210	1352	1476	1181	882	462	370	287	272
MAX	1418	2554	3568	3854	4901	4405	3034	5227	1642	1824	1008	1286
(WY)	1933	1958	1927	1937	1948	1973	1964	1991	1974	1932	1923	1979
MIN	112	174	213	234	316	458	303	210	146	121	117	94.2
(WY)	1932	1925	1964	1940	1926	1966	1986	1942	1941	1943	1925	1925

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1920 - 2000	
ANNUAL TOTAL	267686		153918			
ANNUAL MEAN	733		421		765	
HIGHEST ANNUAL MEAN					1583	
LOWEST ANNUAL MEAN					323	
HIGHEST DAILY MEAN	17300	Jan 23	3830	Apr 4	75800	May 27 1991
LOWEST DAILY MEAN	158	Sep 18	149	Aug 24	65	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	161	Sep 6	153	Aug 19	71	Sep 5 1925
INSTANTANEOUS PEAK FLOW			6470	Mar 11	a96300	May 27 1991
INSTANTANEOUS PEAK STAGE			11.07	Mar 11	b32.19	May 27 1991
INSTANTANEOUS LOW FLOW			c148	Aug 24	65	Sep 9 1925
ANNUAL RUNOFF (CFSM)	1.64		.94		1.71	
ANNUAL RUNOFF (INCHES)	22.28		12.81		23.25	
10 PERCENT EXCEEDS	1240		799		1450	
50 PERCENT EXCEEDS	364		272		393	
90 PERCENT EXCEEDS	183		176		178	

a From rating curve extended above 50,000 ft³/s on basis of slope-area and contracted opening measurements and rainfall-runoff study.

b From high-water mark in gage house.

c Also occurred Aug. 25, Sept. 20.



TENNESSEE RIVER BASIN

03605078 CYPRESS CREEK AT CAMDEN, TN

LOCATION.--Lat 36°02'49", long 88°04'33", Benton County, Hydrologic Unit 06040005, on left bank, adjacent to southwest corner of third sewage lagoon at Camden Sewage Treatment Plant, 1.5 mi southeast of Camden, and 1.4 mi upstream from Kentucky Lake.

DRAINAGE AREA.--27.3 mi².

PERIOD OF RECORD.--January 1992 to current year, discharge for stage of 4.30 ft and below only.

GAGE.--Water-stage recorder. Datum of gage is 360.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; maximum gage height, 10.96 ft, Jan. 22, 1999; minimum discharge, 0.0 ft³/s, Sept. 2-19, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; maximum gage height, 8.08 ft, Apr. 24; minimum discharge, 0.27 ft³/s, Oct. 5-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	4.2	2.9	5.6	5.3	14	12	15	6.1	1.8	12	.82
2	.59	19	3.3	5.8	5.0	11	27	13	4.8	1.7	2.3	.76
3	.54	3.0	3.9	8.1	5.0	11	---	15	3.9	1.7	1.5	.69
4	.46	4.7	4.9	12	5.0	12	---	---	3.5	1.4	18	9.1
5	.34	4.2	7.8	6.7	4.4	11	57	---	3.5	1.3	3.8	3.2
6	.27	3.0	9.3	5.6	4.2	9.1	39	27	7.1	1.3	2.2	1.3
7	.27	2.8	7.8	4.8	4.1	8.7	40	18	3.7	1.2	1.6	1.2
8	.46	2.7	6.0	4.8	4.2	8.1	36	13	2.8	1.2	1.5	1.1
9	---	2.3	5.2	6.1	4.2	7.9	21	12	2.8	1.2	1.4	2.6
10	26	2.3	12	5.9	4.6	7.3	18	15	2.6	1.1	2.1	6.8
11	3.6	2.3	8.2	5.2	4.4	7.1	---	10	2.1	1.1	3.1	3.6
12	2.5	3.4	---	4.8	7.3	6.7	---	22	1.9	---	1.6	3.9
13	1.7	3.2	---	6.1	---	6.3	44	42	1.8	14	1.5	2.4
14	1.7	3.5	37	4.4	---	6.3	32	11	1.8	3.3	1.4	1.6
15	1.5	3.9	15	4.2	20	6.5	24	8.1	2.7	2.0	1.3	1.5
16	1.4	4.7	11	4.8	14	---	20	7.3	2.7	1.8	1.2	1.3
17	1.3	3.8	8.7	4.9	15	---	19	6.7	5.4	1.8	1.1	1.2
18	1.2	3.7	7.6	5.6	57	26	16	5.3	---	1.6	.97	1.2
19	1.2	4.0	7.2	5.2	37	---	14	4.2	14	e1.5	.92	1.2
20	1.3	6.4	6.9	4.9	17	---	12	4.0	4.9	e1.5	.97	.97
21	1.3	6.0	6.2	4.4	13	58	11	4.6	3.6	e2.3	1.0	.85
22	1.3	5.2	6.5	5.2	12	34	9.7	4.1	3.3	e1.8	.84	.96
23	1.2	4.1	5.7	6.6	11	25	9.4	4.7	2.3	e1.5	.75	2.2
24	1.2	3.8	6.1	6.6	12	20	---	4.4	2.0	e1.5	.81	16
25	1.7	3.9	5.3	5.7	11	17	---	16	1.9	e1.3	.96	9.0
26	3.5	7.4	5.4	4.9	---	14	64	---	1.9	e1.3	3.8	6.2
27	4.2	5.2	5.6	4.4	---	38	43	---	3.8	1.1	2.2	4.7
28	3.5	4.8	5.4	4.2	26	23	45	31	3.2	1.0	1.4	2.1
29	3.2	3.5	5.0	5.6	17	15	26	12	2.1	.91	1.3	1.2
30	3.0	3.0	5.1	6.2	---	17	18	8.6	1.9	6.9	1.0	1.1
31	2.2	---	5.8	5.8	---	14	---	6.9	---	3.7	.90	---
TOTAL	73.36	134.0	226.8	175.1	319.7	434.0	657.1	340.9	104.1	65.81	75.42	90.75
MEAN	2.45	4.47	7.82	5.65	12.8	16.1	27.4	12.6	3.59	2.19	2.43	3.03
MAX	26	19	37	12	57	58	64	42	14	14	18	16
MIN	.27	2.3	2.9	4.2	4.1	6.3	9.4	4.0	1.8	.91	.75	.69
CFSM	.09	.16	.29	.21	.47	.59	1.00	.46	.13	.08	.09	.11
IN.	.10	.18	.31	.24	.44	.59	.90	.46	.14	.09	.10	.12

RESERVOIRS IN TENNESSEE RIVER BASIN

03468500 DOUGLAS LAKE.--Lat 35°57'40", long 83°32'20", Sevier County, Hydrologic Unit 06010107, at Douglas Dam on French Broad River, 6.5 mi north of Sevierville, and at mile 32.3. DRAINAGE AREA, 4,541 mi². PERIOD OF RECORD, February 1943 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete main dam and 10 saddle dams. Spillway equipped with 11 radial gates, each 32 ft high by 40 ft wide and 8 sluice gates 10 ft high by 5.67 ft wide. Closure of dam was made Feb. 19, 1943; water in reservoir first reached minimum pool elevation Feb. 25, 1943. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,002.00 ft, top of gates, is 743,600 cfs-days, of which 631,200 cfs-days is controlled storage above elevation 940.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 760,000 cfs-days, July 25, 1949, elevation, 1,001.79 ft; minimum after first filling, 1,000 cfs-days, Jan. 16, 1956, elevation, 883.7 ft, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 643,800 cfs-days, May 31, elevation, 995.86 ft; minimum, 113,600 cfs-days, Jan. 28, elevation, 941.55 ft.

03476000 SOUTH HOLSTON LAKE.--Lat 36°31'15", long 82°05'11", Sullivan County, Hydrologic Unit 06010102, 470 ft upstream from South Holston Dam on South Fork Holston River, 7.0 mi southeast of Bristol, Virginia-Tennessee, and at mile 49.8. DRAINAGE AREA, 703 mi². PERIOD OF RECORD, November 1950 to current year. GAGE, water-stage recorder. Datum of gage is sea level. Prior to May 11, 1951, non-recording gage at same site and datum.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter. Closure of dam was made Nov. 20, 1950; water in reservoir first reached minimum pool elevation Jan. 25, 1951. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,742.00 ft, spillway crest, is 385,200 cfs-days, of which 220,800 cfs-days is controlled storage above elevation 1,675.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 363,800 cfs-days, May 10, 1984, elevation, 1,736.86 ft; minimum after first filling, 57,700 cfs-days, Jan. 13, 1956, elevation, 1,614.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 324,200 cfs-days, June 8, elevation 1,727.01 ft; minimum, 219,100 cfs-days, Jan. 8, elevation, 1,695.41 ft.

03483500 WATAUGA LAKE.--Lat 36°19'20", long 82°07'16", Carter County, Hydrologic Unit 06010103, at Watauga Dam on Watauga River, 5 mi east of Elizabethton, and at mile 36.7. DRAINAGE AREA, 468 mi². PERIOD OF RECORD, December 1948 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter. Closure of dam was made Dec. 1, 1948; water in reservoir first reached minimum pool elevation Dec. 31, 1948. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,975.00 ft, spillway crest, is 341,300 cfs-days, of which 178,500 cfs-days is controlled storage above elevation 1,915.00 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 300,800 cfs-days, Apr. 19, 1987, elevation, 1,963.28 ft; minimum after first filling, 25,100 cfs-days, Jan. 13, 1956, elevation, 1,813.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 282,500 cfs-days, May 8, elevation, 1,957.73 ft; minimum, 210,800 cfs-days, Jan. 7, elevation, 1,933.53 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03468500 DOUGLAS LAKE			03476000 SOUTH HOLSTON LAKE			03483500 WATAUGA LAKE		
Sept. 30...	965.22	283,900	-	1,706.59	253,200	-	1,938.74	225,300	-
Oct. 31...	957.04	214,100	-69,800	1,701.88	238,500	-14,700	1,934.96	214,700	-10,600
Nov. 30...	954.16	192,300	-21,800	1,698.80	229,200	-9,300	1,935.90	217,300	+2,600
Dec. 31...	942.37	117,800	-74,500	1,695.87	220,500	-8,700	1,934.07	212,200	-5,100
CAL YR 1999	-	-	+6,900	-	-	+6,300	-	-	+5,100
Jan. 31...	942.69	119,500	+1,700	1,697.29	224,600	+4,100	1,934.49	213,400	+1,200
Feb. 29...	954.73	196,500	+77,000	1,704.43	246,400	+21,800	1,941.23	232,400	+19,000
Mar. 31...	972.72	357,300	+160,800	1,712.05	271,000	+24,600	1,947.13	249,500	+17,100
Apr. 30...	989.01	547,900	+190,600	1,723.00	309,300	+38,300	1,956.73	279,200	+29,700
May 31...	995.62	640,300	+92,400	1,726.94	323,900	+14,600	1,956.16	274,400	-1,800
June 30...	994.63	625,900	-14,400	1,726.11	320,800	-3,100	1,955.00	273,700	-3,700
July 31...	990.90	573,400	-52,500	1,723.25	310,200	-10,600	1,951.45	262,600	-11,100
Aug. 31...	976.56	398,100	-175,300	1,713.86	277,100	-33,100	1,944.53	241,900	-20,700
Sept. 30...	970.48	334,500	-63,600	1,707.25	255,400	-21,700	1,942.22	235,200	-6,700
WTR YR 2000	-	-	+50,600	-	-	+2,200	-	-	+9,900

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03486800 BOONE LAKE.--Lat 36°26'26", long 82°26'16", Sullivan County, Hydrologic Unit 06010102, at Boone Dam on South Fork Holston River, 0.7 mi northeast of Spurgeon, 1.3 mi downstream from Watauga River, and at mile 18.6. DRAINAGE AREA, 1,840 mi². PERIOD OF RECORD, December 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Dec. 16, 1952; water in reservoir first reached minimum pool elevation Jan. 5, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,385.0 ft, top of gates, is 97,500 cfs-days, of which 74,800 cfs-days is controlled storage above elevation 1,330 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 99,100 cfs-days, May 19, 1964, elevation 1,384.99 ft; minimum after first filling, 21,300 cfs-days, Jan. 23, 1956, elevation, 1,327.06 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 94,700 cfs-days, Aug. 11, elevation, 1,383.70 ft; minimum, 42,400 cfs-days, Jan. 4, elevation, 1,350.91 ft.

03487000 FORT PATRICK HENRY LAKE.--Lat 36°29'53", long 82°30'32", Sullivan County, Hydrologic Unit 06010102, at Fort Patrick Henry Dam on South Fork Holston River, 0.2 mi upstream from bridge on U. S. Highway 23, 4.5 mi southeast of Kingsport, and at mile 8.2. DRAINAGE AREA, 1,903 mi². PERIOD OF RECORD, October 1953 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Oct. 27, 1953; water in reservoir first reached minimum pool elevation Dec. 8, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,263 ft, top of gates, is 13,600 cfs-days, of which 2,200 cfs-days is controlled storage above elevation 1,258 ft, normal minimum pool. Reservoir is used for navigation, flood control and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 14,000 cfs-days, Feb. 11, 1954, elevation, 1,263.80 ft, minimum after first filling, 2,690 cfs-days, Sept. 19, 1986, elevation, 1,226.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,500 cfs-days, Nov. 3, elevation, 1,262.90 ft; minimum, 11,300 cfs-days, May 11, elevation, 1,257.65 ft.

03493500 CHEROKEE LAKE.--Lat 36°10'00", long 83°29'55", Jefferson County, Hydrologic Unit 06010104, at Cherokee Dam on Holston River, 0.3 mi upstream from bridge on State Highway 92, 2.7 mi upstream from Mill Spring Creek, 2.8 mi north of Jefferson City, and at mile 52.3. DRAINAGE AREA, 3,429 mi². PERIOD OF RECORD, December 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with nine radial gates, each 32 ft high by 40 ft wide. Storage began Dec. 5, 1941; water in reservoir first reached minimum pool elevation Jan. 6, 1942. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,075.0 ft, top of gates, is 778,400 cfs-days, of which 580,300 cfs-days is controlled storage above elevation 1,020.0 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 779,400 cfs-days, May 11, 1944, maximum elevation, 1,074.47 ft May 30, 1973; minimum after first filling, 48,400 cfs-days, Jan. 7, 1954, elevation, 980.77 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 599,100 cfs-days, July 17, elevation, 1,062.38 ft; minimum, 246,700 cfs-days, Dec. 6, elevation, 1,027.29 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
03486800 BOONE LAKE				03487000 FORT PATRICK HENRY LAKE			03493500 CHEROKEE LAKE		
Sept. 30...	1,376.89	80,800	-	1,261.43	12,900	-	1,044.66	395,700	-
Oct. 31...	1,372.07	72,200	-8,600	1,260.83	12,600	-300	1,037.41	327,600	-68,100
Nov. 30...	1,367.11	64,100	-8,100	1,261.82	13,000	+400	1,032.86	289,200	-38,400
Dec. 31...	1,352.68	44,400	-19,700	1,259.56	12,100	-900	1,027.46	247,900	-41,300
CAL YR 1999	-	-	-4,500	-	-	-1,100	-	-	+3,400
Jan. 31...	1,356.95	49,600	+5,200	1,261.11	12,700	+600	1,029.22	260,900	+13,000
Feb. 29...	1,366.09	62,500	+12,900	1,261.78	13,000	+300	1,036.64	320,800	+59,900
Mar. 31...	1,373.36	74,400	+11,900	1,261.21	12,800	-200	1,044.16	390,700	+69,900
Apr. 30...	1,380.02	86,900	+12,500	1,261.59	12,900	+100	1,053.01	485,000	+94,300
May 31...	1,382.58	92,200	+5,300	1,259.54	12,100	-800	1,056.88	530,300	+45,300
June 30...	1,383.29	93,800	+1,600	1,261.48	12,900	+800	1,060.60	576,300	+46,000
July 31...	1,380.85	88,600	-5,200	1,259.90	12,200	-700	1,060.20	571,200	-5,100
Aug. 31...	1,381.17	89,300	+700	1,261.75	13,000	+800	1,050.91	461,400	-109,800
Sept. 30...	1,376.28	79,700	-9,600	1,260.90	12,600	-400	1,048.51	435,400	-26,000
WTR YR 2000	-	-	-1,100	-	-	-300	-	-	+39,700

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03499500 FORT LOUDOUN LAKE.--Lat 35°47'30", long 84°14'35", Loudon County, Hydrologic Unit 06010201, at Fort Loudoun Dam on Tennessee River, 1 mi northeast of Lenoir City, and at mile 602.3. DRAINAGE AREA, 9,550 mi². PERIOD OF RECORD, July 1943 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 14 radial gates, each 32 ft high by 40 ft wide. Closure of dam was made Aug. 2, 1943; water in reservoir first reached ordinary minimum pool elevation Sept. 4, 1943. Revised capacity table put into use Jan. 19, 1980. Total level pool capacity at elevation 815.00 ft, top of gates, is 424,000 cfs-days, of which 120,000 cfs-days is controlled flood storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 815.14 ft, May 8, 1984; minimum after first filling, 805.54 ft, Jan. 18, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 184,800 cfs-days, Aug. 4; maximum elevation, 813.43 ft, Aug. 4; minimum contents, 147,300 cfs-days, Jan. 28, minimum elevation, 807.68 ft, Jan. 28. Contents based on backwater profile.

03519800 TELLICO LAKE.--Lat 35°46'53", long 84°15'10", Loudon County, Hydrologic Unit 06010201, at Tellico Dam on Little Tennessee River, 1.1 mi south of Lenoir City, and at mile 0.4. DRAINAGE AREA, 2,627 mi². PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir formed by concrete dam with earth embankment. Spillway equipped with 3 radial gates, each 42 ft high by 40 ft wide. Closure of dam was made Nov. 29, 1979; water in reservoir first reached ordinary minimum pool elevation Dec. 24, 1979. Total capacity at elevation 815.00 ft, top of gates, is 225,500 cfs-days, of which 63,800 cfs-days is controlled storage above elevation 807.00 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and indirectly, power. Tellico-Fort Loudoun canal was opened Jan. 19, 1980. Canal is 1,000 ft long, and interconnects Tellico and Fort Loudoun Lakes at the dam. Spillway gates of Tellico Dam were closed Feb. 7, 1980, diverting all flow from Little Tennessee River.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 228,700 cfs-days, May 8, 1984, elevation, 815.37 ft; minimum after first filling, 155,300 cfs-days, Feb. 17, 1997, elevation, 807.30 ft; minimum elevation, 806.96 ft, Jan. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 202,100 cfs-days, Aug. 4, elevation, 813.57 ft; minimum, 159,000 cfs-days, Jan. 27, elevation, 807.83 ft.

03532500 NORRIS LAKE.--Lat 36°13'29", long 84°05'29", Anderson County, Hydrologic Unit 06010205, at Norris Dam on Clinch River, 2.5 mi northwest of Norris, and at mile 79.8. DRAINAGE AREA, 2,912 mi². PERIOD OF RECORD, June 1935 to current year. GAGE, water-stage recorder. Datum of stage is 0.11 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with three drum gates, each 100 ft wide by 14 ft high. Some storage began in June 1935; dam was completely closed and placed in operation Mar. 4, 1936; water in reservoir first reached minimum pool elevation Mar. 24, 1936. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,034.11 ft, top of gates, is 1,286,600 cfs-days, of which 969,000 cfs-days is controlled storage above elevation 960.11 ft normal minimum pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,236,700 cfs-days, Feb. 11, 1937, elevation, 1,031.21 ft; minimum after first filling, 75,500 cfs-days, Jan. 24, 1956, elevation, 909.46 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 902,900 cfs-days, June 2, elevation, 1012.41 ft; minimum, 466,400 cfs-days, Dec. 26, elevation, 977.58 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	*03499500 FORT LOUDOUN LAKE			03519800 TELLICO LAKE			03532500 NORRIS LAKE		
Sept. 30...	812.46	179,400	-	812.51	193,800	-	994.77	656,700	-
Oct. 31...	812.24	177,500	-1,900	812.33	192,400	-1,400	987.95	575,600	-81,100
Nov. 30...	808.91	155,300	-22,200	809.01	167,500	-24,900	981.75	508,400	-67,200
Dec. 31...	808.69	152,900	-2,400	808.84	166,200	-1,300	977.75	468,100	-40,300
CAL YR 1999	-	-	+3,000	-	-	+3,300	-	-	+1,400
Jan. 31...	808.53	151,800	-1,100	808.67	165,000	-1,200	980.39	494,400	+26,300
Feb. 29...	808.83	153,900	+2,100	808.94	167,000	+2,000	989.21	590,000	+95,600
Mar. 31...	809.51	158,300	+4,400	809.64	172,100	+5,100	997.20	687,400	+97,400
Apr. 30...	812.76	181,200	+22,900	812.88	196,700	+24,600	1,010.80	878,100	+190,700
May 31...	812.26	177,800	-3,400	812.36	192,600	-4,100	1,012.38	902,500	+24,400
June 30...	812.74	181,100	+3,300	812.82	196,200	+3,600	1,011.82	893,800	-8,700
July 31...	812.16	177,600	-3,500	812.26	191,900	-4,300	1,010.23	869,500	-24,300
Aug. 31...	812.48	179,800	+2,200	812.43	193,200	+1,300	1,002.95	764,100	-105,400
Sept. 30...	812.04	176,400	-3,400	812.39	192,900	-300	998.14	699,500	-64,600
WTR YR 2000	-	-	-3,000	-	-	-900	-	-	+42,800

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03535900 MELTON HILL LAKE.--Lat 35°53'04", long 84°18'01", Loudon-Roane County line, Hydrologic Unit 06010207, 9 mi southwest of Oak Ridge, 19 mi west of Knoxville, 57 mi downstream from Norris Dam on Clinch River, and at mile 23.1. DRAINAGE AREA, 3,343 mi². PERIOD OF RECORD, August 1962 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with three radial gates, each 42 ft high by 40 ft wide. Dam completed and storage began May 1, 1963; water in reservoir first reached minimum pool elevation May 23, 1963. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 796 ft, top of gates, is 63,500 cfs-days, of which 16,100 cfs-days is controlled storage above elevation 790.0 ft, normal minimum pool. Reservoir is used for navigation, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,900 cfs-days, Mar. 16, 1973, elevation, 796.45 ft; minimum after first filling, 35,100 cfs-days, Feb. 9, 1966, elevation, 784.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 60,600 cfs-days, May 24, elevation, 795.04 ft; minimum, 48,400 cfs-days, Nov. 17, elevation, 790.42 ft.

03543000 WATTS BAR LAKE.--Lat 35°37'13", long 84°47'00", Rhea County, Hydrologic Unit 06010201, at Watts Bar Dam on Tennessee River, 6.5 mi southeast of Spring City, 72.4 mi downstream from Fort Loudoun Dam, and at mile 529.9. DRAINAGE AREA, 17,310 mi², approximately. PERIOD OF RECORD, October 1941 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with 20 radial gates, each 32 ft high by 40 ft wide, also one 2-section leaf trashway gate 16.3 ft high by 24 ft wide. Storage began with partial closure Dec. 12, 1941, and final closure Jan. 1, 1942; water in reservoir first reached minimum navigation pool elevation Feb. 17, 1942. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 745.0 ft, top of gates, is 592,400 cfs-days, of which 191,000 cfs-days is controlled flood storage above elevation 735.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 745.40 ft, Mar. 17, 1973; minimum after first filling, 733.44 ft, Mar. 20, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 544,000 cfs-days, Apr. 5; maximum elevation, 742.74 ft, Apr. 4; minimum midnight contents, 405,900 cfs-days, Jan. 31; minimum elevation, 735.03 ft, Jan. 31. Contents based on backwater profile.

03564000 LAKE OCOEE.--Lat 35°05'40", long 84°38'53", Polk County, Hydrologic Unit 06020003, at Lake Ocoee Dam on Ocoee River at Parksville, 13.8 mi east of Cleveland, and at mile 11.9. DRAINAGE AREA, 595 mi². PERIOD OF RECORD, June 1914 to current year. Prior to October 1953, published as "Parksville (Ocoee No. 1) Reservoir," and October 1953 to September 1968, as "Parksville Lake." GAGE, nonrecording gage. Datum of gage is 6.89 ft above sea level. Gage readings have been reduced to sea level.

REMARKS.--Reservoir is formed by concrete dam with 347 ft of spillway. Spillway is equipped with four floodgates, each 6 ft high by 20 ft wide and 265 ft of flashboards about 5.7 ft high. Crest of spillway under gates is at elevation 830.82 ft; remainder of spillway is 1.0 ft higher. Dam completed and storage began in 1911. Capacity of reservoir has been considerably reduced by silting. Revised capacity table put into use Jan. 1, 1979. Total capacity at elevation 837.55 ft, about top of flashboards, is 42,300 cfs-days, of which 15,600 cfs-days is controlled storage above elevation 817.9 ft, normal minimum pool. Reservoir is used for power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum midnight contents observed, 53,300 cfs-days, July 9, 1916; maximum midnight elevation observed, 840.2 ft, Feb. 10, 1946; minimum contents observed, 27,300 cfs-days, Jan. 27, 1956, elevation, 817.7 ft; minimum midnight elevation observed, 814.8 ft, Dec. 14, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 40,500 cfs-days, June 11, elevation, 836.09 ft; minimum 32,400 cfs-days, Dec. 25, elevation, 826.89 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03535900 MELTON HILL LAKE			*03543000 WATTS BAR LAKE			03564000 LAKE OCOEE		
Sept. 30...	792.81	54,400	-	740.59	501,200	-	835.00	39,400	-
Oct. 31...	793.71	56,800	+2,400	740.14	492,500	-8,700	835.49	39,900	+500
Nov. 30...	792.72	54,200	-2,600	736.66	430,200	-62,300	832.29	36,900	-3,000
Dec. 31...	793.48	56,200	+2,000	735.89	416,100	-14,100	827.19	32,600	-4,300
CAL YR 1999	-	-	-400	-	-	-3,100	-	-	+3,000
Jan. 31...	793.34	55,800	-400	735.28	405,900	-10,200	827.69	33,000	+400
Feb. 29...	793.79	56,900	+1,100	736.43	425,200	+19,300	827.59	33,000	0
Mar. 31...	793.21	55,400	-1,500	738.03	453,300	+28,100	828.69	33,800	+800
Apr. 30...	794.00	57,600	+2,200	739.96	489,000	+35,700	835.59	40,000	+6,200
May 31...	794.27	58,400	+800	740.88	506,800	+17,800	835.19	39,600	-400
June 30...	794.44	58,900	+500	740.40	497,500	-9,300	834.99	39,400	-200
July 31...	793.07	55,100	-3,800	740.01	491,200	-6,300	835.29	39,700	+300
Aug. 31...	793.55	56,400	+1,300	740.51	500,200	+9,000	834.49	38,900	-800
Sept. 30...	792.86	54,500	-1,900	740.11	492,500	-7,700	834.49	38,900	0
WTR YR 2000	-	-	+100	-	-	-8,700	-	-	-500

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03566500 CHICKAMAUGA LAKE.--Lat 35°06'07", long 85°13'42", Hamilton County, Hydrologic Unit 06020001, at Chickamauga Dam on Tennessee River, 5.8 mi northeast of Chattanooga, 58.9 mi downstream from Watts Bar Dam, and at mile 471.0. DRAINAGE AREA, 20,790 mi², approximately. PERIOD OF RECORD, October 1939 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with eighteen 2-section lift gates, each 40.44 ft high by 40 ft wide. Storage began Feb. 6, 1940; water in reservoir first reached minimum navigation pool elevation Mar. 10, 1940. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 685.44 ft, top of gates, is 372,600 cfs-days, of which 175,000 cfs-days is controlled flood storage above elevation 675.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 686.19 ft, Mar. 29, 1994; minimum after first filling, 673.27 ft, Jan. 21, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 326,800 cfs-days, Aug. 11; maximum elevation, 683.32 ft, Aug. 12; minimum midnight contents, 207,700 cfs-days, Jan. 28; minimum elevation, 675.21 ft, Jan. 19. Contents based on backwater profile.

03570520 NICKAJACK LAKE.--Lat 35°00'07", long 85°37'14", Marion County, Hydrologic Unit 06020001, at Nickajack Dam on Tennessee River, 2 mi upstream from Sequatchie River, 5 mi south of Jasper, 46.3 mi downstream from Chickamauga Dam, and at mile 424.7. DRAINAGE AREA, 21,870 mi², approximately. PERIOD OF RECORD, December 1967 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with earth embankments on each side. The spillway, with crest at elevation 595.0 ft, is equipped with 10 radial gates, each 40 ft high by 40 ft wide. A trash gate, 5.5 ft high by 15 ft wide, is located between the spillway and powerhouse. Dam was completed and storage began on Dec. 14, 1967. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 635.0 ft, top of gates, is 127,200 cfs-days, of which 16,200 cfs-days is controlled storage above elevation 632.0 ft, ordinary minimum. Reservoir is used for navigation and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 634.99 ft, Apr. 19, 1969; minimum after first filling, 630.82 ft, Feb. 20, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 131,400 cfs-days, Apr. 5; maximum elevation, 634.33 ft, Apr. 4; minimum midnight contents, 115,000 cfs-days, Oct. 1; minimum elevation, 631.84 ft, Apr. 5. Contents based on backwater profile.

03579000 WOODS RESERVOIR.--Lat 35°17'54", long 86°05'48", Franklin County, Hydrologic Unit 06030003, at Elk River Dam on Elk River, 1.2 mi upstream from Spring Creek, 2.5 mi northeast of Estill Springs, 6.8 mi upstream from bridge on U.S. Highway 41-A, and at mile 170.0. DRAINAGE AREA, 263 mi². PERIOD OF RECORD, May 1952 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity and earthfill-type dam with riprapped embankments. Spillway equipped with three radial gates, each 25 ft high by 50 ft wide, and two sluice gates, each 6 ft high by 4 ft wide. Closure of dam was made May 1, 1952; water in reservoir first reached minimum pool elevation Feb. 6, 1953. Total capacity at elevation 962.0 ft, surcharge pool, is 44,400 cfs-days, of which 9,900 cfs-days is controlled storage above elevation 957.0 ft, normal minimum pool. Reservoir is used for cooling water, flood control, and recreational purposes.

COOPERATION.--Twice-daily gage readings (0600 and 2400 hours) furnished by U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,300 cfs-days, April 21 and 22, 1956, elevation, 960.98 ft; minimum after first filling, 26,300 cfs-days, Nov. 8-11, 1953, elevation, 951.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 39,800 cfs-days, Apr. 3, elevation, 959.78 ft; minimum midnight contents, 36,100 cfs-days, Jan. 22; elevation, 957.82 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	*03566500 CHICKAMAUGA LAKE			*03570520 NICKAJACK LAKE			03579000 WOODS RESERVOIR		
Sept. 30...	681.18	290,500	-	633.43	118,400	-	959.41	39,100	-
Oct. 31...	678.65	249,300	-41,200	633.81	120,400	+2,000	958.67	37,700	-1,400
Nov. 30...	676.46	217,200	-32,100	633.84	122,100	+1,700	958.05	36,500	-1,200
Dec. 31...	675.81	208,300	-8,900	633.37	118,400	-3,700	958.13	36,600	+100
CAL YR 1999	-	-	-2,500	-	-	+200	-	-	+200
Jan. 31...	676.23	214,000	+5,700	633.78	120,200	+1,800	958.04	36,500	-100
Feb. 29...	677.15	227,000	+13,000	633.57	119,100	-1,100	958.21	36,800	+300
Mar. 31...	678.01	239,600	+12,600	633.53	118,900	-200	958.39	39,100	+2,300
Apr. 30...	681.67	299,000	+59,900	632.96	115,900	-3,000	959.58	39,400	+300
May 31...	682.33	310,800	+11,800	633.51	118,800	+2,900	959.44	39,200	-200
June 30...	682.13	307,100	-3,700	633.92	121,000	+2,200	959.46	39,200	0
July 31...	681.85	302,200	-4,900	633.71	121,300	+300	959.60	39,500	+300
Aug. 31...	682.20	308,400	+6,200	633.94	122,500	+1,200	959.36	39,000	-500
Sept. 30...	680.78	283,700	-24,700	633.73	123,100	+600	959.50	39,300	+300
WTR YR 2000	-	-	-6,800	-	-	+4,900	-	-	+200

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03580740 TIMS FORD LAKE.--Lat 35°11'51", long 86°16'41", Franklin County, Hydrologic Unit 06030003, in intake tower near left bank at Tims Ford Dam on Elk River, 0.4 mi upstream from bridge on State Highway 50, 9.5 mi west of Winchester, and at mile 133.4. DRAINAGE AREA, 529 mi². PERIOD OF RECORD, December 1970 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with compacted rockfill impervious earth core embankments. Spillway equipped with three radial gates, each 42 ft high by 40 ft wide. Storage began Dec. 1, 1970; water in reservoir first reached minimum pool elevation Feb. 23, 1971, and first filling was completed June 3, 1971. Total capacity at elevation 895 ft, top of gates, is 306,500 cfs-days, of which 142,400 cfs-days is controlled storage above elevation 865 ft, normal minimum pool. Reservoir is used for flood control, power, and recreation.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 298,600 cfs-days, Dec. 23, 1990, elevation, 893.62 ft; minimum after first filling 130,600 cfs-days, Dec. 1, 1997, elevation, 855.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 270,800 cfs-days, June 27, elevation, 888.67 ft; minimum, 187,000 cfs-days, Jan. 2, elevation, 870.87 ft.

03593000 PICKWICK LAKE.--Lat 35°04'16", long 88°15'04", Hardin County, Hydrologic Unit 06040001, at Pickwick Landing Dam on Tennessee River, 1.5 mi north of town of Pickwick Dam, 6.1 mi upstream from Lick Creek, 52.7 mi downstream from Wilson Dam, and at mile 206.7. DRAINAGE AREA, 38,820 mi², approximately. PERIOD OF RECORD, October 1937 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway equipped with twenty-two 2-section lift gates, each 40 ft high by 40 ft wide, one of which is used as a trash gate. Dam completed and storage began Feb. 8, 1938; water in reservoir first reached minimum pool elevation Feb. 18, 1938. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 418.0 ft, top of gates, is 557,100 cfs-days, of which 210,200 cfs-days is controlled flood storage above elevation 408.0 ft, minimum navigation pool. Reservoir is used for navigation, flood control, and power.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 419.49 ft, Mar. 30, 1944; minimum after first filling, 407.12 ft, Dec. 18, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 633,200 cfs-days, Apr. 6; maximum elevation, 416.16 ft; minimum midnight contents, 445,200 cfs-days, Dec. 5, minimum elevation, 408.58 ft, Dec. 21. Contents based on backwater profile.

03596460 NORMANDY LAKE.--Lat 35°27'55", long 86°14'55", Coffee County, Hydrologic Unit 06040002, at Normandy Dam on Duck River, 1.5 mi northeast of Normandy, 2.6 mi downstream from Riley Creek, 8 mi north of Tullahoma, and at mile 248.6. DRAINAGE AREA, 195 mi². PERIOD OF RECORD, January 1976 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete gravity dam with riprapped and rolled earthfill embankment on left side. Spillway is equipped with two radial gates, each 40 ft high by 36 ft wide. Storage began Jan. 5, 1976; water in reservoir first reached minimum pool elevation Mar. 22, 1976. Revised capacity table put into use Jan. 1, 1977. Total capacity at elevation 880 ft, top of gates, is 64,000 cfs-days, of which 30,400 cfs-days is controlled storage above elevation 859 ft, normal minimum pool. Reservoir is used for flood control, water supply, water-quality control, recreation, and shoreline development.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 63,800 cfs-days, Feb. 20, 1991, elevation, 880.12 ft; minimum after first filling, 26,800 cfs-days, Nov. 27, 1981, elevation, 853.12 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 59,300 cfs-days, Apr. 26, elevation, 877.48 ft; minimum 39,400 cfs-days, Jan. 3, elevation, 863.99 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
03580740 TIMS FORD LAKE				*03593000 PICKWICK LAKE			03596460 NORMANDY LAKE		
Sept. 30...	883.10	241,800	-	411.24	495,000	-	870.61	48,600	-
Oct. 31...	881.42	233,600	-8,200	409.93	464,800	-30,200	868.12	45,000	-3,600
Nov. 30...	876.02	208,800	-24,800	409.73	460,200	-4,600	866.16	42,300	-2,700
Dec. 31...	871.01	187,600	-21,200	409.38	454,300	-5,900	864.08	39,500	-2,800
CAL YR 1999	-	-	-1,500	-	-	-11,400	-	-	-1,200
Jan. 31...	871.33	188,900	+1,300	409.98	465,200	+10,900	864.44	40,000	+500
Feb. 29...	876.73	211,900	+23,000	409.60	457,500	-7,700	867.03	43,500	+3,500
Mar. 31...	882.22	237,500	+25,600	412.09	515,600	+58,100	871.14	49,400	+5,900
Apr. 30...	886.01	256,700	+19,200	413.96	561,100	+45,500	875.60	56,300	+6,900
May 31...	887.47	264,400	+7,700	412.89	536,900	-24,200	875.76	56,500	+200
June 30...	887.94	266,900	+2,500	413.36	548,400	+11,500	876.39	57,500	+1,000
July 31...	887.62	265,200	-1,700	413.96	561,300	+12,900	874.66	54,800	-2,700
Aug. 31...	884.81	250,500	-14,700	411.62	504,200	-57,100	872.89	52,000	-2,800
Sept. 30...	884.20	247,400	-3,100	410.45	476,400	-27,800	870.71	48,700	-3,300
WTR YR 2000	-	-	+5,600	-	-	-18,600	-	-	+100

* Contents based on backwater profile.

RESERVOIRS IN TENNESSEE RIVER BASIN--Continued

03609000 KENTUCKY LAKE.--Lat 37°00'49", long 88°16'06", Marshall County, KY, Hydrologic Unit 06040006, at Kentucky Dam on Tennessee River at Gilbertsville, KY, and at mile 22.4. DRAINAGE AREA, 40,200 mi², approximately. PERIOD OF RECORD, July 1944 to current year. GAGE, water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by concrete dam with 24 lift gates 50 ft high by 40 ft wide. Storage began Aug. 16, 1944, and final closure was Aug. 30, 1944. Water in reservoir reached minimum pool elevation Apr. 7, 1945. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 375.0 ft, top of gates, is 3,090,000 cfs-days, of which 2,020,700 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Reservoir is used for navigation, flood control, and power. Barkley-Kentucky Canal opened July 13, 1966, for navigation and power use. Canal is 1.75 miles long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see Kentucky reports.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.87 ft, May 24, 1983; minimum after first filling, 348.02 ft, Mar. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 1,664,200 cfs-days Apr. 6; maximum elevation, 360.56 ft, May 28; minimum midnight contents, 1,074,100 cfs-days, Nov. 11, minimum elevation, 353.71 ft, Nov. 14.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Content (cfs-days)	Change contents (cfs-days)
*03609000 KENTUCKY LAKE			
Sept. 30...	356.21	1,216,800	--
Oct. 31...	355.00	1,135,800	-81,000
Nov. 30...	354.61	1,116,100	-19,700
Dec. 31...	354.28	1,092,900	-23,200
CAL YR 1999	-	-	-92,500
Jan. 31...	355.04	1,135,800	+42,900
Feb. 29...	354.80	1,132,600	-3,200
Mar. 31...	356.80	1,274,900	+142,300
Apr. 30...	359.75	1,479,200	+204,300
May 31...	359.48	1,466,000	-13,200
June 30...	359.19	1,433,400	-32,600
July 31...	357.88	1,352,700	-80,700
Aug. 31...	355.92	1,212,000	-140,700
Sept. 30...	355.12	1,146,700	-65,300
WTR YR 2000	-	-	-70,100

* Contents based on backwater profile.

OTHER RESERVOIRS.--The following small reservoirs in the Tennessee River basin are described below, but records of contents are not published herein.

03466400 DAVY CROCKETT LAKE on Nolichucky River at Nolichucky Dam, with a total capacity of 1,300 cfs-days, none of which is controlled storage.

03517900 CALDERWOOD LAKE on Little Tennessee River at Calderwood, with a total capacity of 20,800 cfs-days of which 840 cfs-days is controlled storage.

03518200 CHILHOWEE LAKE on Little Tennessee River at Chilhowee Dam, with a total capacity of 24,800 cfs-days of which 3,400 cfs-days is controlled storage.

03562500 OCOEE NO. 3 LAKE on Ocoee River at Ocoee No. 3 Dam, 5.0 miles west of Ducktown, with a total capacity of 1,660 cfs-days, of which 1,550 cfs-days is controlled storage. Records of contents previous to 1971 water year published as Ocoee No. 3 Lake near Ducktown, TN.

OBION RIVER BASIN

07027000 REELFOOT LAKE NEAR TIPTONVILLE, TN

LOCATION.--Lat 36°21'09", long 89°25'07", Lake County, Hydrologic Unit 08010202, at Middle Landing in Reelfoot Lake State Park, 0.4 mi east of Blue Bank, 0.8 mi west of the spillway, and 3.3 mi southeast of Tiptonville.

DRAINAGE AREA.--240 mi².

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.22 ft above sea level.

REMARKS.--Records period July 13 to Sept. 30 are poor on once daily observer readings from U.S. Fish and Wildlife Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.65 ft, from recorded range in stage, about Apr. 26, 1973; minimum, 9.59 ft, July 6, 7, 8, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of about 17.0 ft, at spillway, present datum, from information by local resident. Minimum stage at spillway, 9.30 ft, Nov. 20, 21, 1953 at a datum of 270.29 ft above sea level.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.77 ft, May 21; minimum, 10.58 ft, Oct. 8.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	10.75	10.72	10.74	---	---	---	---	---	---	12.18	12.15	12.16
2	10.73	10.72	10.73	---	---	---	---	---	---	12.30	12.06	12.15
3	10.76	10.68	10.72	---	---	---	---	---	---	12.48	12.14	12.29
4	10.78	10.69	10.73	---	---	---	---	---	---	12.72	12.44	12.57
5	10.72	10.67	10.69	---	---	---	---	---	---	12.73	12.63	12.70
6	10.67	10.66	10.67	---	---	---	---	---	---	12.76	12.72	12.74
7	10.67	10.63	10.65	---	---	---	---	---	---	12.80	12.76	12.78
8	10.89	10.58	10.64	---	---	---	---	---	---	12.79	12.76	12.78
9	11.30	10.89	11.21	---	---	---	---	---	---	12.78	12.72	12.77
10	11.37	11.30	11.33	---	---	---	---	---	---	12.73	12.65	12.70
11	11.42	11.36	11.38	---	---	---	---	---	---	12.78	12.73	12.75
12	11.44	11.39	11.41	---	---	---	---	---	---	12.78	12.68	12.73
13	11.48	11.37	11.41	---	---	---	---	---	---	12.88	12.72	12.80
14	11.48	11.40	11.43	---	---	---	---	---	---	12.83	12.70	12.75
15	11.40	11.37	11.38	---	---	---	---	---	---	12.72	12.55	12.65
16	11.40	11.34	11.36	---	---	---	---	---	---	12.82	12.64	12.69
17	11.52	11.35	11.42	---	---	---	---	---	---	12.77	12.68	12.72
18	11.43	11.36	11.38	---	---	---	---	---	---	12.75	12.66	12.71
19	---	---	---	---	---	---	---	---	---	12.74	12.63	12.67
20	---	---	---	---	---	---	---	---	---	12.83	12.62	12.70
21	---	---	---	---	---	---	---	---	---	12.67	12.62	12.64
22	---	---	---	---	---	---	12.22	12.15	12.18	12.67	12.61	12.64
23	---	---	---	---	---	---	12.20	12.16	12.18	12.77	12.63	12.68
24	---	---	---	---	---	---	12.33	12.10	12.20	12.86	12.63	12.69
25	---	---	---	---	---	---	12.22	12.14	12.17	12.79	12.52	12.66
26	---	---	---	---	---	---	12.19	12.12	12.15	12.72	12.60	12.63
27	---	---	---	---	---	---	12.34	12.10	12.18	12.68	12.58	12.63
28	---	---	---	---	---	---	12.28	12.03	12.14	12.67	12.58	12.62
29	---	---	---	---	---	---	12.17	12.14	12.16	12.62	12.56	12.58
30	---	---	---	---	---	---	12.17	12.13	12.15	12.58	12.53	12.55
31	---	---	---	---	---	---	12.21	12.16	12.18	12.56	12.54	12.55
MONTH	11.52	10.58	11.07	---	---	---	12.34	12.03	12.17	12.88	12.06	12.63

OBION RIVER BASIN

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07027000 REELFOOT LAKE NEAR TIPTONVILLE, TN--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	12.59	12.53	12.56	13.10	12.99	13.05	12.71	12.64	12.67	12.54	12.41	12.49
2	12.56	12.55	12.56	13.12	13.05	13.08	12.68	12.63	12.67	12.57	12.47	12.51
3	12.59	12.52	12.55	13.12	13.03	13.08	12.79	12.65	12.68	12.55	12.47	12.52
4	12.68	12.43	12.56	13.12	13.00	13.04	12.72	12.57	12.65	12.56	12.49	12.53
5	12.56	12.52	12.54	13.02	12.98	12.99	12.64	12.47	12.56	12.57	12.42	12.54
6	12.53	12.49	12.52	12.98	12.95	12.97	12.58	12.49	12.54	12.56	12.51	12.54
7	12.54	12.50	12.52	12.96	12.91	12.94	12.62	12.42	12.49	12.54	12.45	12.50
8	12.56	12.52	12.53	12.91	12.81	12.86	12.72	12.42	12.59	12.50	12.39	12.46
9	12.52	12.43	12.49	13.00	12.83	12.87	12.56	12.46	12.51	12.53	12.33	12.46
10	12.48	12.34	12.44	13.00	12.85	12.92	12.51	12.46	12.49	12.57	12.49	12.53
11	12.67	12.45	12.56	12.98	12.78	12.89	12.61	12.48	12.53	12.51	12.29	12.44
12	12.64	12.51	12.55	12.83	12.81	12.82	12.68	12.55	12.61	12.48	12.32	12.41
13	12.58	12.48	12.52	12.81	12.73	12.77	12.59	12.52	12.55	12.57	12.46	12.53
14	12.59	12.49	12.55	12.77	12.75	12.76	12.54	12.50	12.52	12.58	12.50	12.54
15	12.54	12.49	12.52	12.77	12.69	12.73	12.52	12.48	12.50	12.53	12.48	12.50
16	12.65	12.51	12.57	13.15	12.77	13.01	12.61	12.41	12.48	12.49	12.40	12.45
17	12.70	12.54	12.61	13.21	13.06	13.16	12.60	12.52	12.57	12.45	12.33	12.39
18	12.78	12.49	12.62	13.23	13.15	13.19	12.61	12.57	12.58	---	---	---
19	12.87	12.73	12.83	13.32	13.17	13.23	12.59	12.49	12.55	---	---	---
20	12.92	12.86	12.89	13.36	13.29	13.34	12.55	12.27	12.44	---	---	---
21	12.93	12.91	12.92	13.40	13.34	13.36	12.61	12.42	12.52	---	---	---
22	12.92	12.88	12.90	13.37	13.27	13.31	12.55	12.52	12.53	---	---	---
23	12.91	12.82	12.87	13.27	13.19	13.22	12.55	12.50	12.52	---	---	---
24	12.89	12.78	12.85	13.19	13.06	13.11	12.73	12.52	12.62	---	---	---
25	12.90	12.84	12.87	13.15	13.05	13.08	12.67	12.55	12.60	---	---	---
26	12.97	12.84	12.91	13.05	12.93	13.00	12.62	12.58	12.59	---	---	---
27	13.07	12.96	13.03	13.04	12.84	12.92	12.68	12.43	12.56	---	---	---
28	13.10	13.06	13.08	12.94	12.78	12.82	12.64	12.53	12.59	---	---	---
29	13.09	12.97	13.05	12.80	12.71	12.75	12.60	12.56	12.58	---	---	---
30	---	---	---	12.79	12.69	12.74	12.57	12.54	12.56	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	13.10	12.34	12.69	13.40	12.69	13.00	12.79	12.27	12.56	12.58	12.29	12.49
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	13.17	13.10	13.13	12.63	12.55	12.59	---	---	e12.18	---	---	e11.62
2	13.10	12.96	13.04	12.55	12.47	12.51	---	---	e12.18	11.59	11.56	11.57
3	13.02	12.87	12.94	12.47	12.40	12.44	---	---	e12.18	11.58	11.53	11.55
4	12.88	12.71	12.79	12.45	12.39	12.43	---	---	e12.20	11.65	11.48	11.54
5	12.79	12.64	12.71	12.43	12.39	12.41	---	---	e12.16	11.57	11.49	11.53
6	12.80	12.66	12.71	12.46	12.37	12.41	---	---	e12.08	11.55	11.45	11.49
7	12.68	12.64	12.66	12.47	12.37	12.42	---	---	e12.02	11.52	11.48	11.50
8	12.64	12.59	12.61	12.42	12.37	12.39	---	---	e12.00	11.49	11.47	11.48
9	12.60	12.53	12.57	12.39	12.33	12.36	---	---	e12.00	11.47	11.45	11.46
10	12.55	12.48	12.52	12.34	12.29	12.31	---	---	e11.98	11.46	11.43	11.45
11	12.53	12.46	12.50	12.31	12.27	12.29	---	---	e11.96	11.57	11.42	11.46
12	12.50	12.40	12.47	12.31	12.26	12.28	---	---	e11.94	11.85	11.49	11.56
13	12.46	12.40	12.43	12.31	12.25	12.27	---	---	e11.92	11.60	11.57	11.59
14	12.41	12.29	12.36	---	---	---	---	---	e11.92	11.67	11.51	11.57
15	12.44	12.36	12.39	---	---	---	---	---	e11.92	11.69	11.52	11.57
16	12.44	12.32	12.38	---	---	---	---	---	e11.92	11.57	11.49	11.53
17	12.45	12.35	12.39	---	---	---	---	---	e11.92	11.52	11.48	11.50
18	12.56	12.44	12.50	---	---	e12.18	---	---	e11.92	11.49	11.47	11.48
19	12.59	12.54	12.56	---	---	---	---	---	---	11.47	11.38	11.43
20	12.59	12.51	12.56	---	---	---	---	---	---	11.47	11.20	11.36
21	12.71	12.55	12.61	---	---	---	---	---	e11.78	11.44	11.39	11.41
22	12.63	12.60	12.62	---	---	---	---	---	e11.78	11.43	11.34	11.38
23	12.62	12.59	12.61	---	---	e11.89	---	---	e11.78	11.38	11.34	11.36
24	12.59	12.47	12.54	---	---	---	---	---	e11.78	11.50	11.33	11.42
25	12.58	12.54	12.56	---	---	---	---	---	e11.76	11.60	11.39	11.48
26	12.60	12.49	12.54	---	---	---	---	---	e11.74	11.49	11.41	11.44
27	12.72	12.60	12.65	---	---	---	---	---	e11.74	11.43	11.41	11.42
28	12.70	12.60	12.64	---	---	---	---	---	e11.72	11.42	11.40	11.41
29	12.74	12.69	12.71	---	---	---	---	---	e11.70	11.45	11.39	11.41
30	12.69	12.63	12.66	---	---	---	---	---	e11.68	11.39	11.36	11.37
31	---	---	---	---	---	e11.87	---	---	e11.64	---	---	---
MONTH	13.17	12.29	12.61	12.63	12.25	12.32	---	---	11.91	11.85	11.20	11.48

e Once daily observer readings by U.S. Fish and Wildlife service personnel.

OBION RIVER BASIN

07028930 TURKEY CREEK AT MEDINA, TN

LOCATION.--Lat 35°48'26", long 88°48'07", Gibson County, Hydrologic Unit 08010204, at upstream side of bridge on Highway 152, at sewage treatment plant, at Medina.

DRAINAGE AREA.--4.75 mi².

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Data collection platform. Datum of gage is 370 ft above sea level.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 351 ft³/s, Sept. 24, gage height 7.07 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.80	.00	.00	.74	.00
2	.00	.00	.00	1.3	.00	.00	1.1	.16	.00	.00	.86	.00
3	.00	.00	.00	.00	.00	.00	15	1.4	.00	.00	.55	.00
4	.00	.00	.00	.00	.00	.00	e4.0	8.3	.00	.00	8.2	.00
5	.00	.00	.00	.00	.00	.00	e1.5	3.7	.00	.00	1.6	.00
6	.00	.00	.00	.00	.00	.00	e.50	3.6	.00	.00	.14	.00
7	.00	.00	.00	.00	.00	.00	e.30	3.4	.00	.00	.28	.00
8	.00	.00	.00	.00	.00	.00	e.40	1.8	.00	.00	.13	.00
9	.00	.00	.29	.00	.00	.00	e.20	.73	.00	.00	.00	.00
10	.00	.00	.01	.00	.00	.00	e.05	2.0	.00	.00	.03	.00
11	.00	.00	.00	.00	.00	.00	9.6	.78	.00	.00	.00	.13
12	.00	.00	1.9	.00	.00	.00	2.1	.02	.00	.73	.00	.00
13	.00	.00	.00	.00	.55	.00	1.6	1.9	.00	.14	.00	.00
14	.00	.00	1.3	.00	2.4	.00	1.1	.09	.00	.00	.01	.00
15	.00	.00	.00	.00	.71	.00	.90	.00	4.8	.00	.00	.00
16	.00	.00	.00	.00	.00	e24	.99	.00	2.3	.00	.00	.00
17	.00	.00	.00	.00	.00	e12	.42	.00	11	.00	.00	.00
18	.00	.00	.00	.00	.00	e5.0	.44	.00	.72	.00	.00	.00
19	.00	.00	.00	.00	.00	e1.0	.41	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	e.00	.42	.00	.00	.90	.00	.00
21	.00	.00	.00	.00	.00	e.00	.04	.00	.00	.39	.00	.00
22	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	e.00	.36	1.7	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	e.00	8.9	.17	.00	.00	.00	39
25	.00	.00	.00	.00	.00	e.00	3.7	2.4	.00	.46	.00	.00
26	.00	.00	.00	.00	13	e.00	2.5	2.8	.55	.15	.00	.00
27	.00	.00	.00	.00	2.1	e.00	2.5	5.3	.86	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	2.4	3.5	.02	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	1.5	1.2	.03	.81	.00	.00
30	.00	.00	.00	.00	---	.00	.81	.06	.00	9.9	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.1	.00	---
TOTAL	0.00	0.00	3.50	1.30	18.76	42.00	63.80	45.81	20.28	14.58	12.54	39.13
MEAN	.000	.000	.11	.042	.65	1.35	2.13	1.48	.68	.47	.40	1.30
MAX	.00	.00	1.9	1.3	13	24	15	8.3	11	9.9	8.2	39
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CFM	.00	.00	.02	.01	.14	.29	.45	.31	.14	.10	.09	.27
IN.	.00	.00	.03	.01	.15	.33	.50	.36	.16	.11	.10	.31

OBION RIVER BASIN

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07028930 TURKEY CREEK AT MEDINA, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.95	3.28	3.64	9.39	8.43	12.5	5.88	7.35	6.35	4.02	1.99	1.08
MAX	3.80	12.3	10.2	21.7	19.9	27.1	12.1	20.9	15.0	15.4	7.19	3.40
(WY)	1997	1997	1997	1998	1998	1997	1998	1998	1997	1998	1997	1996
MIN	.000	.000	.11	.042	.65	1.35	2.13	.82	.32	.000	.000	.000
(WY)	1998	2000	2000	2000	2000	2000	2000	1996	1998	1999	1999	1999

SUMMARY STATISTICS

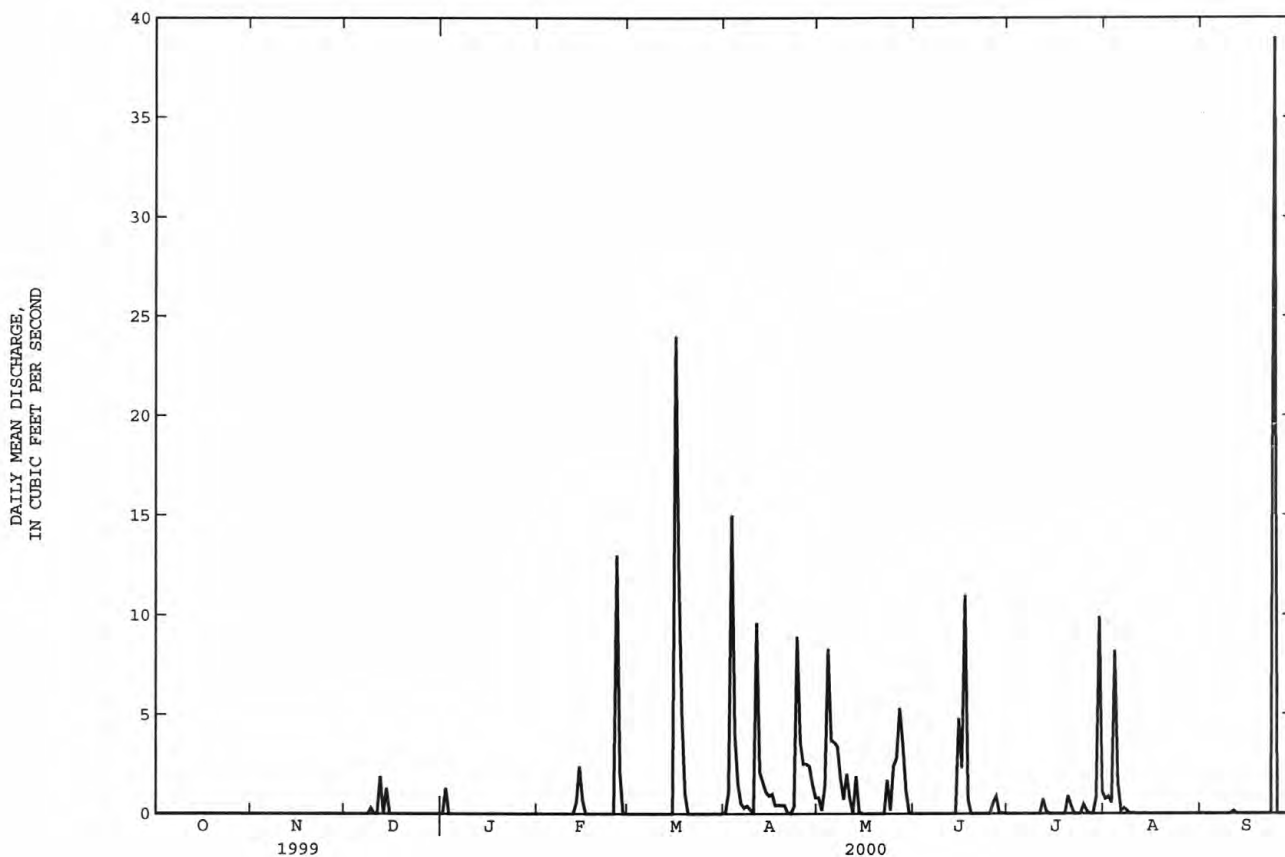
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1996 - 2000

ANNUAL TOTAL	1006.02	261.70	
ANNUAL MEAN	2.76	.72	5.39
HIGHEST ANNUAL MEAN			9.61
LOWEST ANNUAL MEAN			.72
HIGHEST DAILY MEAN	261	Jan 22	39
LOWEST DAILY MEAN	.00	Jan 19	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 14	.00
INSTANTANEOUS PEAK FLOW			2440
INSTANTANEOUS PEAK STAGE			14.83
ANNUAL RUNOFF (CFSM)	.58		1.13
ANNUAL RUNOFF (INCHES)	7.88		15.41
10 PERCENT EXCEEDS	1.6		11
50 PERCENT EXCEEDS	.00		.03
90 PERCENT EXCEEDS	.00		.00

e Estimated



OBION RIVER BASIN

07028960 MIDDLE FORK FORKED DEER RIVER NEAR FAIRVIEW, TN

LOCATION.--Lat 35°44'39", long 88°50'47", Madison County, Hydrologic Unit 08010204, at upstream side of bridge on Highway 45 bypass, 5 mi north of Jackson, and at mile 30.5.

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--October 1967 and April 1989 (discharge measurements only), October 1997 to current year.

GAGE.--Data collection platform. Datum of gage is 327 ft above sea level, from topographic map.

REMARKS.--Records good. Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,820 ft³/s, Dec. 12, gage height, 13.73 ft; minimum discharge, 45 ft³/s, gage height, 4.44 ft. Aug. 17, 18, 23, 24, Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	130	86	103	120	210	115	119	81	e73	119	47
2	61	241	89	104	118	175	210	109	75	e65	104	48
3	61	161	96	119	124	162	403	108	75	e60	102	49
4	61	146	103	164	122	152	421	146	73	e58	97	48
5	61	116	123	159	129	145	375	150	72	61	76	50
6	62	100	139	142	124	134	396	174	70	60	64	50
7	62	93	131	e122	113	127	317	168	67	59	57	51
8	63	92	117	e119	110	122	232	e147	69	56	53	59
9	151	90	114	e116	108	122	167	e150	63	55	49	64
10	236	93	296	e115	115	118	142	e165	61	54	54	63
11	191	91	164	e125	113	114	449	e155	59	54	61	63
12	219	89	2440	114	114	109	380	146	57	58	68	66
13	161	88	2130	121	201	109	379	129	55	66	64	67
14	109	89	717	120	292	108	388	118	55	69	57	63
15	86	88	486	117	366	108	333	110	105	62	52	60
16	80	88	339	112	332	353	250	98	95	63	49	56
17	79	88	223	112	255	318	197	91	123	58	47	51
18	77	88	165	120	303	379	164	85	137	57	49	51
19	78	90	142	120	298	1130	145	80	178	58	50	50
20	83	108	135	117	276	1080	134	81	220	64	49	52
21	81	106	126	110	200	664	128	89	190	77	49	55
22	81	103	118	119	166	604	117	86	127	75	48	58
23	78	100	112	137	149	398	111	93	93	69	48	69
24	77	100	110	140	145	259	286	97	77	63	48	216
25	79	95	107	130	145	182	252	94	71	59	52	157
26	81	96	107	118	254	147	276	121	72	58	56	137
27	82	93	107	110	441	125	235	153	94	57	56	107
28	83	91	106	e115	315	111	186	139	105	56	54	82
29	83	89	105	e125	292	110	153	126	103	56	53	72
30	83	85	105	e130	---	120	134	107	88	104	51	66
31	82	---	105	e133	---	116	---	90	---	80	50	---
TOTAL	2932	3127	9443	3808	5840	8111	7475	3724	2810	1964	1886	2127
MEAN	94.6	104	305	123	201	262	249	120	93.7	63.4	60.8	70.9
MAX	236	241	2440	164	441	1130	449	174	220	104	119	216
MIN	61	85	86	103	108	108	111	80	55	54	47	47
CFSM	.45	.49	1.44	.58	.95	1.24	1.18	.57	.44	.30	.29	.34
IN.	.52	.55	1.66	.67	1.03	1.43	1.32	.66	.50	.35	.33	.37

07028960 MIDDLE FORK FORKED DEER RIVER NEAR FAIRVIEW, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	110	173	339	674	358	412	360	603	184	195	179	66.6
MAX	132	266	370	1099	574	590	458	1431	290	430	418	72.2
(WY)	1998	1998	1998	1999	1998	1998	1998	1998	1998	1998	1998	1998
MIN	94.6	104	305	123	201	262	249	120	93.7	63.4	58.6	56.6
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

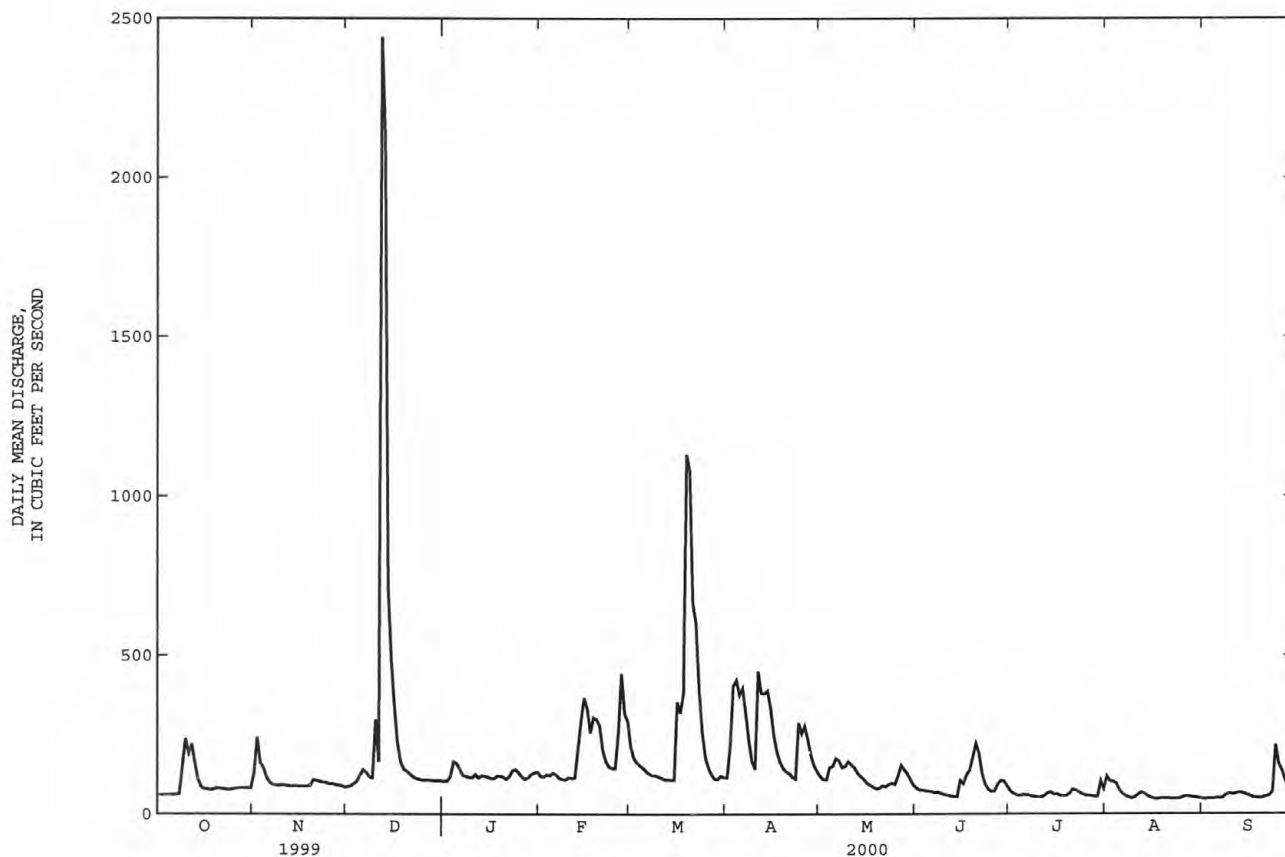
WATER YEARS 1997 - 2000

ANNUAL TOTAL	100553	53247	
ANNUAL MEAN	275	145	305
HIGHEST ANNUAL MEAN			488
LOWEST ANNUAL MEAN			145
HIGHEST DAILY MEAN	6900	Jan 24	2440
LOWEST DAILY MEAN	52	Aug 31	a47
ANNUAL SEVEN-DAY MINIMUM	53	Aug 29	49
INSTANTANEOUS PEAK FLOW			4820
INSTANTANEOUS PEAK STAGE			13.73
INSTANTANEOUS LOW FLOW			b45
ANNUAL RUNOFF (CFSM)	1.31		.69
ANNUAL RUNOFF (INCHES)	17.73		9.39
10 PERCENT EXCEEDS	490		256
50 PERCENT EXCEEDS	122		107
90 PERCENT EXCEEDS	58		56

a Also occurred Sept. 1.

b Also occurred Aug. 18, 23, 24, Sept. 1.

e Estimated



HATCHIE RIVER BASIN

07029500 HATCHIE RIVER AT BOLIVAR, TN

LOCATION.--Lat 35°16'31", long 88°58'36", Hardeman County, Hydrologic Unit 08010208, on left bank 25 ft upstream from bridge on State Highway 18, 250 ft upstream from Illinois Central Gulf Railroad bridge, 0.6 mi downstream from Spring Creek, 1.5 mi northeast of Bolivar, and at mile 135.1.

DRAINAGE AREA.--1,480 mi².

PERIOD OF RECORD.--July 1929 to current year.

GAGE.--Data collection platform. Datum of gage is 323.49 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 8	2030	*9,370	*15.38	No other peak greater than base discharge.			

Minimum discharge, 123 ft³/s, Sept. 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	553	e501	554	904	2590	1500	1040	353	e520	465	140
2	245	2930	e495	548	909	2530	1490	925	325	e500	543	137
3	244	3780	480	554	873	2380	2400	862	310	e480	478	135
4	235	4160	515	635	820	2100	4750	826	305	e455	383	131
5	231	4230	582	1010	769	1630	5130	825	308	e435	339	126
6	232	4100	682	1550	717	1240	5820	861	311	e415	321	127
7	232	3920	736	1830	677	1020	6950	843	312	e395	290	127
8	234	3280	700	1710	649	913	8940	751	305	e375	264	137
9	378	1960	630	1370	635	844	9130	657	298	e355	245	149
10	562	992	694	1170	621	790	8280	681	295	e335	230	165
11	665	681	1090	1210	601	769	7290	666	279	e315	230	179
12	595	573	1460	1220	628	781	6570	631	266	e295	224	196
13	457	528	2530	1080	717	899	5880	574	256	e280	222	194
14	377	512	3380	954	1180	950	5360	527	250	251	216	184
15	334	488	3870	858	1500	913	4830	488	267	273	206	169
16	310	471	3840	776	1980	1050	4460	452	283	284	198	160
17	299	456	3680	727	2250	1290	4120	425	279	277	191	154
18	298	447	3410	719	2530	1390	3840	410	356	262	182	151
19	300	439	2750	752	2930	1600	3550	392	454	252	177	150
20	304	483	1840	769	3410	3110	3160	380	676	251	169	148
21	304	553	1200	725	3460	3840	2560	383	715	270	167	146
22	304	621	959	715	3250	4020	1850	381	696	272	165	146
23	302	623	846	869	2880	3930	1310	379	582	275	160	153
24	299	611	778	1110	2270	3920	1680	387	498	268	158	168
25	297	568	717	1300	1580	3930	2390	381	434	246	157	180
26	298	560	672	1210	1210	3890	2510	376	388	231	157	191
27	301	556	641	1020	1750	3730	2370	386	380	220	156	188
28	307	550	620	907	2180	3400	2040	384	380	212	154	181
29	308	531	600	849	2510	2940	1590	376	438	203	151	175
30	306	e513	581	833	---	2480	1260	401	e531	217	147	168
31	303	---	563	859	---	1990	---	396	---	321	145	---
TOTAL	10101	40669	42042	30393	46390	66859	123010	17446	11530	9740	7290	4755
MEAN	326	1356	1356	980	1600	2157	4100	563	384	314	235	158
MAX	665	4230	3870	1830	3460	4020	9130	1040	715	520	543	196
MIN	231	439	480	548	601	769	1260	376	250	203	145	126
CFSM	.22	.92	.92	.66	1.08	1.46	2.77	.38	.26	.21	.16	.11
IN.	.25	1.02	1.06	.76	1.17	1.68	3.09	.44	.29	.24	.18	.12

HATCHIE RIVER BASIN

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07029500 HATCHIE RIVER AT BOLIVAR, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	716	1672	3215	4517	4657	4617	3953	2722	1458	936	625	715
MAX	4447	7457	12490	13420	14060	12110	10960	13540	8181	5933	2678	4651
(WY)	1933	1958	1983	1974	1948	1973	1979	1991	1997	1932	1931	1979
MIN	150	233	422	555	829	1053	711	444	209	189	193	127
(WY)	1957	1957	1955	1955	1934	1941	1986	1942	1941	1943	1954	1956

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

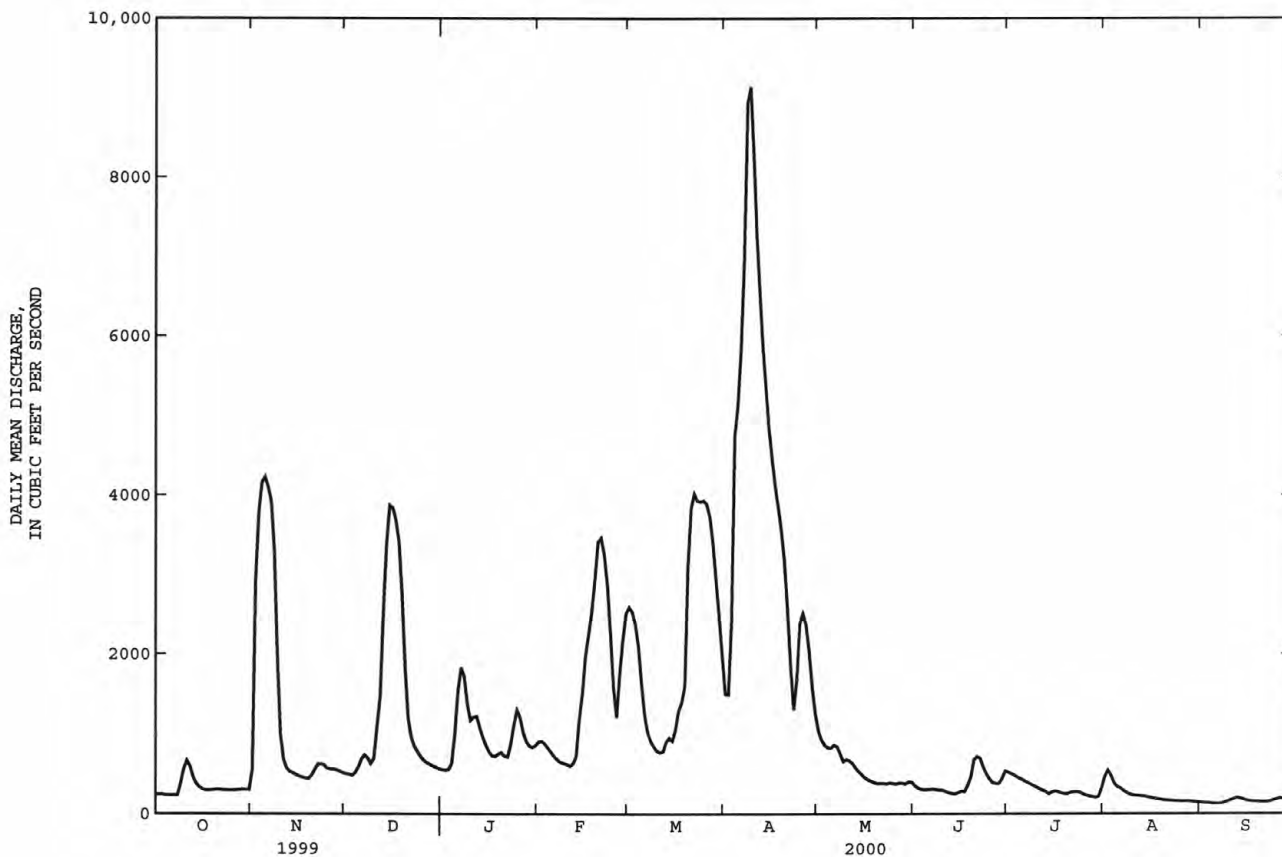
FOR 2000 WATER YEAR

WATER YEARS 1929 - 2000

ANNUAL TOTAL	914176	410225	
ANNUAL MEAN	2505	1121	2472
HIGHEST ANNUAL MEAN			5003
LOWEST ANNUAL MEAN			971
HIGHEST DAILY MEAN	17700	Mar 17	9130
LOWEST DAILY MEAN	191	Sep 18	126
ANNUAL SEVEN-DAY MINIMUM	193	Sep 13	131
INSTANTANEOUS PEAK FLOW			9370
INSTANTANEOUS PEAK STAGE			15.38
INSTANTANEOUS LOW FLOW			136
ANNUAL RUNOFF (CFSM)	1.69	.76	1.67
ANNUAL RUNOFF (INCHES)	22.98	10.31	22.70
10 PERCENT EXCEEDS	7020	3310	6070
50 PERCENT EXCEEDS	717	554	1100
90 PERCENT EXCEEDS	231	180	272

a From rating curve extended above 34,000 ft³/s.

e Estimated



LOOSAHATCHIE RIVER BASIN

07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON, TN

LOCATION.--Lat 35°18'37", long 89°38'23", Shelby County, Hydrologic Unit 08010209, on left bank 20 ft downstream from bridge on U.S. Highways 70 and 79, 1.5 mi upstream from Beaver Creek, 1.5 mi northeast of Arlington, and at mile 30.4.

DRAINAGE AREA.--262 mi².

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of the gage is 246.43 ft above sea level.

REMARKS.--Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 12	2115	5,600	15.20	Feb 27	0100	*6,280	*16.35

Minimum daily discharge, 77 ft³/s, Oct. 1-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	103	108	123	126	e250	135	109	93	124	99	84
2	77	179	109	123	126	e200	291	108	93	119	102	85
3	77	127	110	125	127	e175	1620	114	94	118	90	85
4	77	110	117	144	127	e170	1150	354	96	114	86	85
5	77	107	122	125	125	e160	345	275	97	110	84	84
6	77	104	126	121	126	e150	233	311	95	108	83	84
7	78	102	113	119	127	e140	192	153	96	104	80	85
8	80	100	111	119	127	145	270	121	97	102	80	86
9	140	100	110	119	128	145	187	120	97	100	79	86
10	227	100	312	119	129	142	160	404	97	99	94	88
11	113	100	154	116	128	138	309	161	97	98	124	87
12	106	100	2140	115	142	132	398	125	98	96	86	92
13	103	101	1980	117	291	130	214	135	98	95	82	93
14	98	101	642	114	988	130	181	117	100	93	81	88
15	95	102	248	115	265	128	161	107	108	92	81	86
16	95	104	187	115	189	1510	146	107	112	90	81	86
17	92	104	168	115	196	826	138	107	109	88	81	86
18	92	105	159	117	517	323	132	105	127	88	82	86
19	93	105	152	117	240	1450	128	102	256	88	83	86
20	92	130	148	116	164	1910	125	102	354	100	82	86
21	93	117	143	115	137	446	120	103	158	160	84	85
22	93	110	141	123	130	272	117	101	141	95	84	86
23	93	109	139	137	123	219	118	102	130	92	84	87
24	93	107	136	126	133	192	202	103	124	89	84	95
25	94	107	132	124	129	178	164	100	120	88	85	97
26	95	107	131	122	1140	167	125	98	451	87	86	92
27	95	108	131	122	3310	159	117	102	697	87	85	89
28	95	107	130	124	487	152	119	101	212	88	85	89
29	95	107	130	125	278	143	114	96	204	92	85	89
30	96	107	128	126	---	142	109	95	143	293	85	89
31	97	---	126	126	---	136	---	94	---	118	85	---
TOTAL	3005	3270	8783	3764	10255	10560	7820	4332	4794	3315	2672	2626
MEAN	96.9	109	283	121	354	341	261	140	160	107	86.2	87.5
MAX	227	179	2140	144	3310	1910	1620	404	697	293	124	97
MIN	77	100	108	114	123	128	109	94	93	87	79	84
MED	93	106	132	121	133	160	160	107	108	96	84	86
CFSM	.37	.42	1.08	.46	1.35	1.30	.99	.53	.61	.41	.33	.33
IN.	.43	.46	1.25	.53	1.46	1.50	1.11	.62	.68	.47	.38	.37

LOOSAHATCHIE RIVER BASIN

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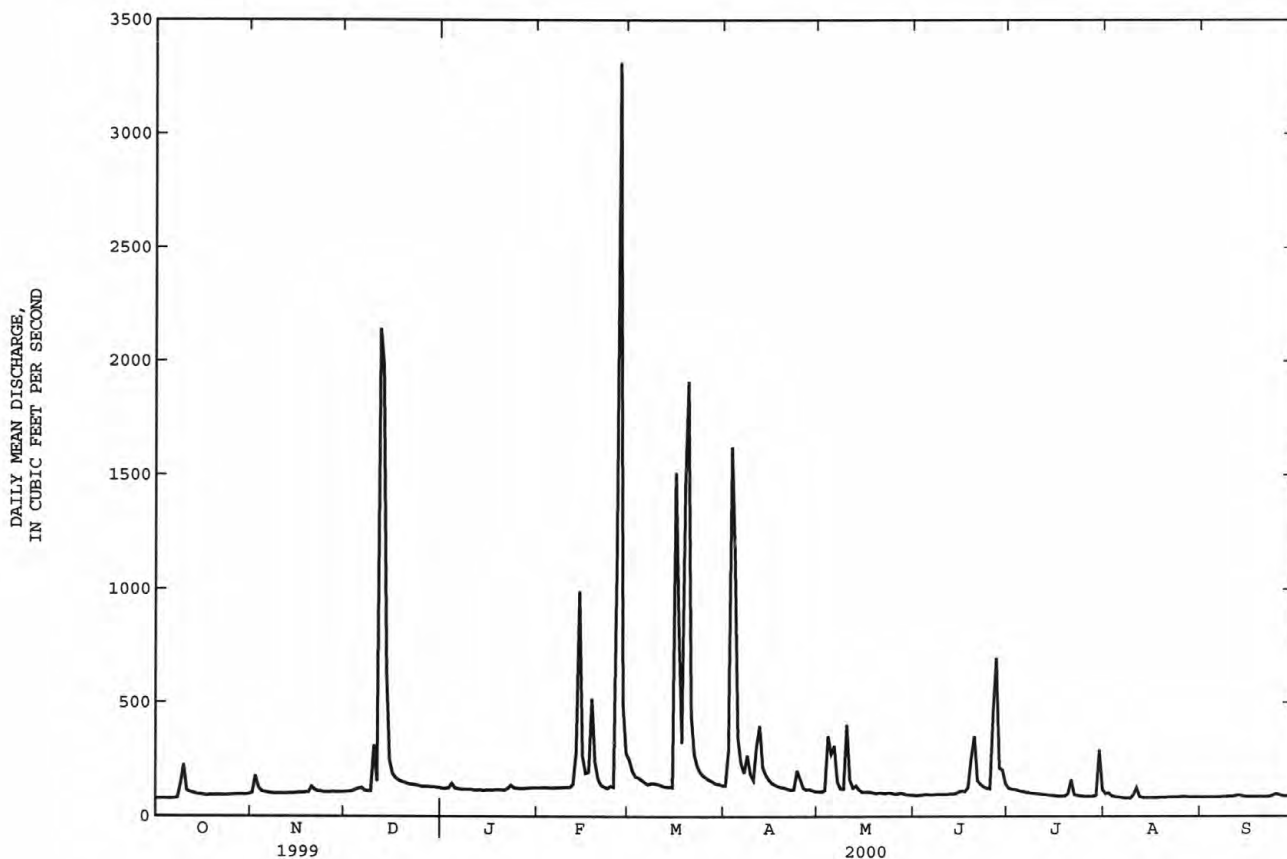
07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	141	321	593	518	634	649	586	367	277	203	159	151
MAX	531	1344	1962	1479	2064	2038	2306	1497	1609	1155	521	502
(WY)	1997	1989	1988	1974	1990	1997	1991	1983	1974	1989	1974	1997
MIN	73.4	75.6	106	94.5	128	141	107	93.8	86.7	87.5	80.5	73.3
(WY)	1970	1972	1977	1981	1995	1986	1978	1988	1972	1970	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	112332		65196			
ANNUAL MEAN	308		178		382	
HIGHEST ANNUAL MEAN					769	
LOWEST ANNUAL MEAN					154	
HIGHEST DAILY MEAN	6510		3310		19900	
LOWEST DAILY MEAN	70		a77		66	
ANNUAL SEVEN-DAY MINIMUM	71		77		68	
INSTANTANEOUS PEAK FLOW			6280		27400	
INSTANTANEOUS PEAK STAGE			16.35		25.27	
INSTANTANEOUS LOW FLOW			71		66	
ANNUAL RUNOFF (CFSM)	1.17		.68		1.46	
ANNUAL RUNOFF (INCHES)	15.95		9.26		19.80	
10 PERCENT EXCEEDS	354		249		600	
50 PERCENT EXCEEDS	123		114		119	
90 PERCENT EXCEEDS	75		85		85	

a Also occurred Oct. 1-6.
e Estimated



WOLF RIVER BASIN

07030392 WOLF RIVER AT LAGRANGE, TN

LOCATION.--Lat 35°01'57", long 89°14'48", Fayette County, Hydrologic Unit 08010210, on right bank upstream side of bridge on Yager Road, 0.95 mi south of LaGrange, and at mile 72.6.

DRAINAGE AREA.--210 mi².

PERIOD OF RECORD.--September 1995 to current year.

GAGE.--Data collection platform. Datum of gage is 350 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated discharges, which are fair. Periodic observation of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s, Feb. 20, gage height, 10.79; minimum, 58 ft³/s, Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	129	139	147	188	236	149	144	95	254	83	59
2	98	187	139	147	186	198	202	153	92	174	95	60
3	98	195	149	157	184	191	344	151	90	118	132	60
4	97	199	170	185	180	186	667	182	93	97	99	60
5	97	193	191	169	179	181	1010	163	103	86	83	59
6	97	171	214	164	173	176	782	162	102	80	76	61
7	97	154	209	161	168	172	428	147	95	78	71	63
8	97	145	193	158	166	171	299	136	91	76	74	68
9	201	140	179	163	172	171	235	127	88	75	74	71
10	285	137	194	169	172	168	203	134	86	74	70	72
11	260	135	198	168	168	176	199	135	84	73	158	74
12	248	133	233	165	173	179	247	128	82	73	149	86
13	195	132	393	163	176	178	295	121	80	75	103	86
14	147	134	393	154	203	173	342	113	81	73	82	79
15	124	135	398	148	e380	170	322	109	85	71	74	72
16	116	134	306	148	e320	231	281	107	87	69	70	67
17	114	133	225	158	e240	272	234	105	94	68	69	64
18	112	133	192	178	e285	244	206	103	122	71	69	65
19	112	134	175	182	e380	259	189	99	121	71	68	65
20	113	172	165	177	1100	448	174	102	142	76	69	64
21	112	177	159	165	593	490	162	117	177	97	66	65
22	112	165	155	171	237	485	154	110	125	91	66	64
23	111	159	153	213	199	324	150	110	100	81	73	66
24	112	155	151	214	192	236	276	117	100	75	69	70
25	111	152	149	209	187	208	342	112	88	72	67	75
26	111	151	148	197	189	212	269	124	83	71	67	77
27	112	147	148	189	287	197	223	129	91	70	67	74
28	113	145	148	186	301	196	185	120	91	68	65	71
29	112	141	146	187	299	194	164	113	223	69	63	69
30	113	139	146	188	---	170	152	103	365	93	62	67
31	113	---	147	188	---	156	---	98	---	89	61	---
TOTAL	4039	4556	6105	5368	7677	7048	8885	3874	3356	2708	2494	2053
MEAN	130	152	197	173	265	227	296	125	112	87.4	80.5	68.4
MAX	285	199	398	214	1100	490	1010	182	365	254	158	86
MIN	97	129	139	147	166	156	149	98	80	68	61	59
CFSM	.62	.72	.94	.82	1.26	1.08	1.41	.60	.53	.42	.38	.33
IN.	.72	.81	1.08	.95	1.36	1.25	1.57	.69	.59	.48	.44	.36

WOLF RIVER BASIN

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07030392 WOLF RIVER AT LAGRANGE, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	165	211	313	473	388	521	346	288	260	154	152	153
MAX	274	331	564	745	567	956	492	455	628	207	278	288
(WY)	1997	1997	1997	1999	1998	1997	1998	1999	1997	1997	1998	1996
MIN	89.5	152	197	173	233	227	261	125	112	87.4	80.5	68.4
(WY)	1996	2000	2000	2000	1996	2000	1996	2000	2000	2000	2000	2000

SUMMARY STATISTICS

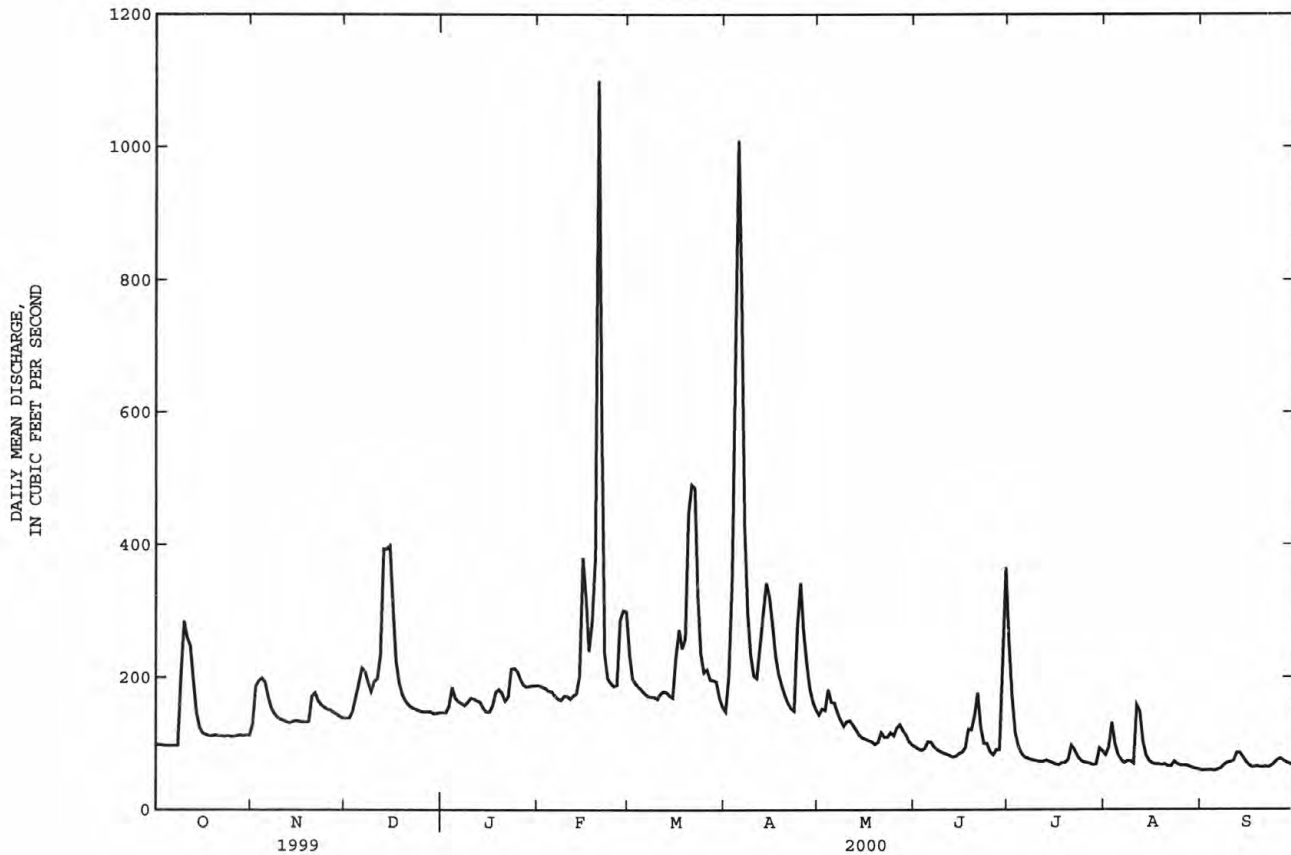
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1995 - 2000

ANNUAL TOTAL	107717	58163	
ANNUAL MEAN	295	159	286
HIGHEST ANNUAL MEAN			412
LOWEST ANNUAL MEAN			159
HIGHEST DAILY MEAN	4000	Mar 14	1100
LOWEST DAILY MEAN	90	Sep 16	59
ANNUAL SEVEN-DAY MINIMUM	91	Sep 12	60
INSTANTANEOUS PEAK FLOW			1170
INSTANTANEOUS PEAK STAGE			10.79
INSTANTANEOUS LOW FLOW			56
ANNUAL RUNOFF (CFSM)	1.41	.76	1.36
ANNUAL RUNOFF (INCHES)	19.08	10.30	18.54
10 PERCENT EXCEEDS	503	250	546
50 PERCENT EXCEEDS	178	146	186
90 PERCENT EXCEEDS	95	70	91

e Estimated



WOLF RIVER BASIN

07031650 WOLF RIVER AT GERMANTOWN, TN

LOCATION.--Lat 35°06'59", long 89°48'05", Shelby County, Hydrologic Unit 08010210, on left bank, 30 ft downstream of bridge on Germantown Road, 1.7 mi north of U.S. Hwy 72, 3.6 mi downstream of Grays Creek, 4.0 mi northeast of I-240 and U.S. Highway 72 interchange, and at mile 18.9.

DRAINAGE AREA.--699 mi².

PERIOD OF RECORD.--October 1969 to September 1986, October 1990 to current year. Prior to September 1977 published as "near Germantown".

GAGE.--Water-stage recorder. Datum of gage is 235.76 ft above sea level. Apr. 21, 1986, to Dec. 30, 1990, water-stage recorder at site 2.1 mi downstream at datum 9.94 ft lower.

REMARKS.--Records fair, except for periods of estimated daily discharges, which are poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data. National Weather Service rain gage and telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 26	2300	*4,590	*11.12	No peak greater than base discharge.			

Minimum daily discharge, 196 ft³/s, Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	346	317	383	434	1100	649	481	276	355	345	234
2	287	359	314	379	427	876	1070	474	267	334	247	232
3	283	351	329	414	424	803	2290	536	253	368	257	231
4	278	363	382	476	419	745	2190	797	256	379	413	226
5	281	360	531	488	411	695	2090	930	280	355	317	207
6	282	362	418	453	402	658	1650	856	271	325	274	210
7	278	373	416	431	398	632	1340	748	262	297	277	196
8	285	377	387	420	394	619	1190	568	253	273	262	206
9	323	373	428	417	387	662	1050	492	247	257	253	220
10	476	372	556	420	383	610	893	517	241	247	244	246
11	486	361	482	420	378	593	849	451	233	235	282	251
12	440	e329	1840	410	447	579	835	419	229	229	314	565
13	407	e326	1600	409	521	566	769	656	225	227	287	352
14	407	e332	1100	410	1290	560	713	411	222	228	e298	304
15	404	e305	892	e390	1230	571	680	370	307	226	e297	e286
16	381	299	761	e380	1060	1860	670	351	262	223	e291	e268
17	365	297	669	e405	807	2080	661	341	352	224	e287	e265
18	345	298	627	e450	947	2180	636	332	347	223	254	e262
19	339	328	578	e600	1230	2950	611	322	353	235	246	e262
20	329	449	531	e680	1070	2790	578	308	335	310	233	e261
21	322	377	502	e675	843	2390	532	307	336	256	240	e263
22	315	375	470	644	812	1810	489	312	314	223	239	e262
23	315	360	443	564	662	1300	475	314	322	217	234	309
24	314	342	426	510	646	1040	603	307	323	211	227	278
25	309	336	419	475	640	990	558	311	309	211	227	285
26	306	339	404	460	1670	1110	576	308	314	216	238	258
27	307	337	402	450	2590	1010	570	304	475	202	234	e278
28	308	331	398	455	2230	813	565	305	324	200	233	e271
29	317	322	393	461	1770	707	550	303	307	228	232	234
30	322	321	385	457	---	661	504	296	318	413	233	231
31	322	---	384	444	---	631	---	285	---	375	232	---
TOTAL	10424	10400	17784	14430	24922	34591	26836	13712	8813	8302	8247	7953
MEAN	336	347	574	465	859	1116	895	442	294	268	266	265
MAX	486	449	1840	680	2590	2950	2290	930	475	413	413	565
MIN	278	297	314	379	378	560	475	285	222	200	227	196
CFSM	.48	.50	.82	.67	1.23	1.60	1.28	.63	.42	.38	.38	.38
IN.	.55	.55	.95	.77	1.33	1.84	1.43	.73	.47	.44	.44	.42

WOLF RIVER BASIN

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07031650 WOLF RIVER AT GERMANTOWN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	443	744	1466	1400	1308	1739	1570	1258	799	467	441	454
MAX	1223	1991	4939	3504	3256	4854	4805	4542	1986	985	1199	1345
(WY)	1997	1980	1983	1974	1991	1980	1991	1991	1974	1994	1998	1979
MIN	213	239	439	372	532	569	448	364	271	258	240	244
(WY)	1970	1972	1981	1981	1995	1986	1986	1992	1972	1971	1986	1986

SUMMARY STATISTICS

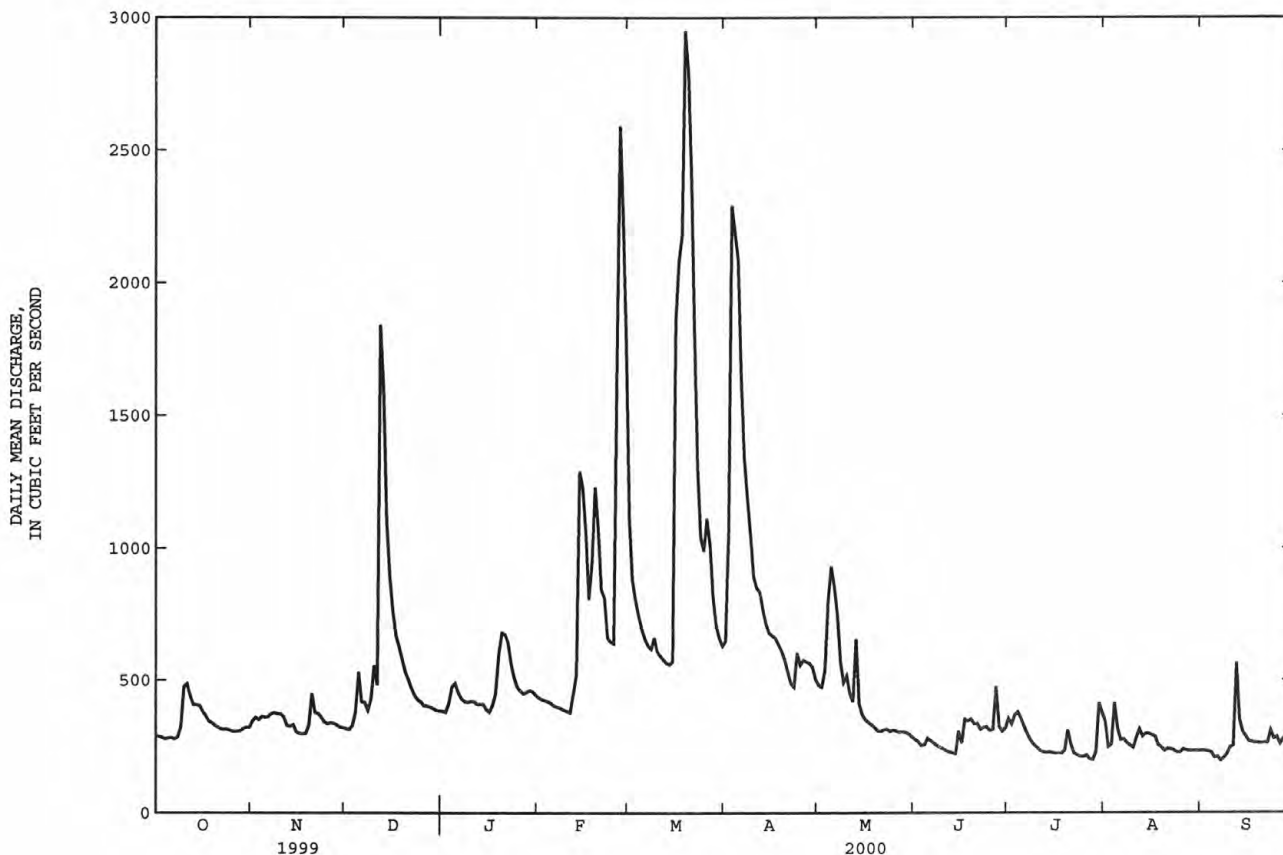
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1970 - 2000

ANNUAL TOTAL	345771	186414	
ANNUAL MEAN	947	509	1006
HIGHEST ANNUAL MEAN			1807
LOWEST ANNUAL MEAN			497
HIGHEST DAILY MEAN	6570	Jan 24	2950
LOWEST DAILY MEAN	258	Sep 17	196
ANNUAL SEVEN-DAY MINIMUM	261	Sep 17	211
INSTANTANEOUS PEAK FLOW			4590
INSTANTANEOUS PEAK STAGE			11.12
INSTANTANEOUS LOW FLOW			176
ANNUAL RUNOFF (CFSM)	1.36	.73	1.44
ANNUAL RUNOFF (INCHES)	18.40	9.92	19.56
10 PERCENT EXCEEDS	2610	892	2170
50 PERCENT EXCEEDS	476	371	532
90 PERCENT EXCEEDS	283	234	281

e Estimated



WOLF RIVER BASIN

07031692 FLETCHER CREEK AT SYCAMORE VIEW ROAD AT MEMPHIS, TN

LOCATION.--Lat 35°10'09", long 89°51'58", Shelby County, Hydrologic Unit 08010210, on Sycamore View Road, 0.4 miles northwest of Interstate 40.

DRAINAGE AREA.--30.5 mi².

PERIOD OF RECORD.--April 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 229.00 ft above sea level.

REMARKS.--Records poor. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 9,240 ft³/s, Dec. 12, gage height, 10.14 ft; minimum, 0.01 ft³/s, Sept. 1, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	74	2.8	.17	.32	1.6	133	1.0	.17	.78	180	.01
2	13	76	1.9	.22	.13	.33	362	10	.09	.29	17	.02
3	13	5.1	26	1.3	.08	.53	1070	163	.13	.16	2.5	.07
4	9.5	1.3	141	3.0	.06	.89	123	129	2.5	.28	960	.27
5	15	1.2	304	.35	.06	.23	16	197	12	.26	55	1.4
6	9.7	1.7	12	.16	.11	.12	6.6	70	3.6	.23	6.4	.19
7	2.6	1.6	3.4	.21	.08	.19	7.4	12	.84	.23	2.0	.11
8	65	1.1	2.0	.38	.07	.22	71	4.2	.20	.21	.80	5.5
9	254	.51	104	.93	.09	16	4.5	114	.17	.36	.29	5.9
10	128	.36	112	.81	.14	2.7	1.5	89	.25	.32	9.1	25
11	4.9	.19	7.5	.34	.30	7.5	422	5.0	.70	.25	39	5.3
12	1.7	.13	2570	.13	22	1.6	88	1.3	.55	.27	3.6	62
13	1.3	.38	667	.53	35	.18	11	630	.22	.43	1.0	5.0
14	1.3	1.3	101	.95	66	.07	5.8	12	.16	.95	.80	.55
15	1.5	1.8	9.7	.55	3.3	6.5	5.5	3.2	261	.98	.29	.78
16	2.3	1.8	3.1	.27	.76	754	2.3	1.6	90	.89	.12	.60
17	3.5	1.9	1.9	1.8	301	24	1.6	.65	56	4.8	.19	.37
18	3.0	2.1	1.3	1.6	169	7.7	1.2	.33	36	3.8	.42	.28
19	17	155	.89	.40	31	1010	.40	.54	52	.63	2.8	e.10
20	6.2	197	1.0	.19	4.5	155	.85	.74	35	98	1.3	e.05
21	1.4	9.3	.95	.11	2.1	20	.34	1.0	16	15	.99	e.02
22	.63	7.0	.38	162	.24	9.7	.15	.81	5.2	1.5	.25	.01
23	.47	8.6	.23	18	2.4	5.0	5.0	.28	.78	.37	.20	19
24	.73	11	.27	2.5	37	3.3	227	.28	.24	.09	.18	112
25	1.5	10	.20	.60	2.5	2.9	11	.14	.39	.02	.14	53
26	1.1	15	.10	.37	2770	3.5	3.3	.16	227	.02	.72	6.6
27	1.4	9.1	.10	.24	238	1.2	1.6	14	312	.02	1.9	.44
28	3.7	6.7	.12	6.8	17	.70	3.9	18	17	.02	1.5	.05
29	7.5	7.3	.09	19	5.4	.92	1.6	1.8	25	824	.22	.07
30	13	4.0	.06	8.9	---	15	.88	.58	3.2	367	.04	.03
31	14	---	.08	1.2	---	4.7	---	.29	---	7.5	.02	---
TOTAL	604.93	612.47	4075.07	234.01	3708.64	2056.28	2588.42	1481.90	1158.39	1329.66	1288.77	304.72
MEAN	19.5	20.4	131	7.55	128	66.3	86.3	47.8	38.6	42.9	41.6	10.2
MAX	254	197	2570	162	2770	1010	1070	630	312	824	960	112
MIN	.47	.13	.06	.11	.06	.07	.15	.14	.09	.02	.02	.01
CFSM	.64	.67	4.31	.25	4.19	2.17	2.83	1.57	1.27	1.41	1.36	.33
IN.	.74	.75	4.97	.29	4.52	2.51	3.16	1.81	1.41	1.62	1.57	.37

WOLF RIVER BASIN

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07031692 FLETCHER CREEK AT SYCAMORE VIEW ROAD AT MEMPHIS, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	60.2	88.1	85.5	58.5	98.3	257	140	71.0	88.5	60.9	42.6	70.2
MAX	140	310	131	120	147	535	275	152	211	90.8	133	291
(WY)	1997	1997	2000	1998	1997	1997	1999	1999	1996	1998	1998	1997
MIN	19.5	8.89	37.1	7.55	17.5	66.3	15.6	35.8	12.6	42.0	3.59	10.2
(WY)	2000	1998	1998	2000	1999	2000	1996	1998	1998	1996	1996	2000

SUMMARY STATISTICS

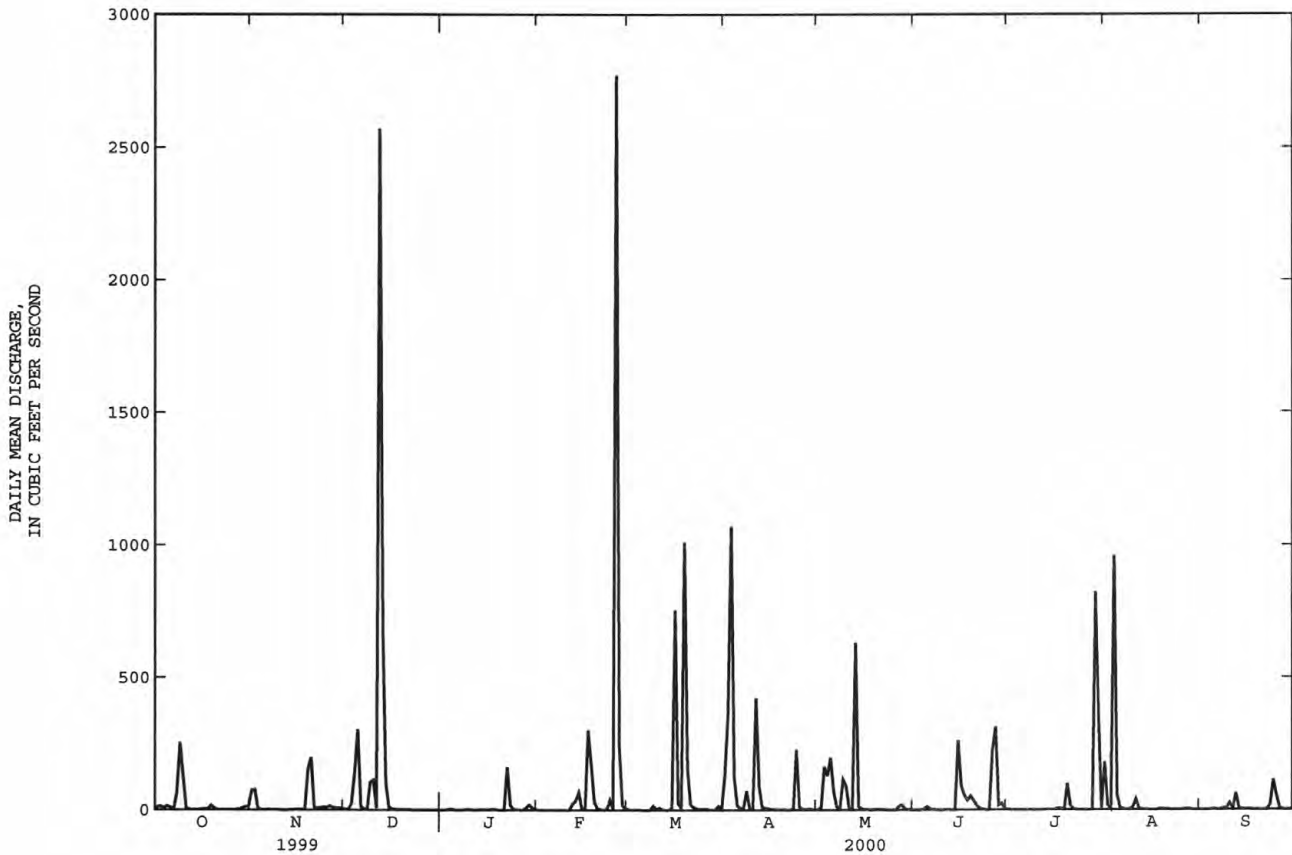
FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1996 - 2000

ANNUAL TOTAL	29877.23	19443.26	
ANNUAL MEAN	81.9	53.1	96.1
HIGHEST ANNUAL MEAN			170
LOWEST ANNUAL MEAN			53.1
HIGHEST DAILY MEAN	3950	May 5	2770
LOWEST DAILY MEAN	.01	May 20	a.01
ANNUAL SEVEN-DAY MINIMUM	.02	May 24	.08
INSTANTANEOUS PEAK FLOW			9240
INSTANTANEOUS PEAK STAGE			10.14
INSTANTANEOUS LOW FLOW			b.00
ANNUAL RUNOFF (CFSM)	2.68		1.74
ANNUAL RUNOFF (INCHES)	36.44		23.71
10 PERCENT EXCEEDS	102		106
50 PERCENT EXCEEDS	4.8		1.6
90 PERCENT EXCEEDS	.10		.13

a Also occurred Sept. 22.
b Occurred many days.
e Estimated



NONCONNAH CREEK BASIN

07032200 NONCONNAH CREEK NEAR GERMANTOWN, TN

LOCATION.--Lat 35°02'59", long 89°49'08", Shelby County, Hydrologic Unit 08010211, on right bank, 100 ft upstream from bridge on Winchester Road, 2.6 mi south of Germantown, and at mile 17.3.

DRAINAGE AREA.--68.2 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, 1959-1964 and 1969; October 1969 to May 1985, October 1985 to January 1995, June 1996 to current year.

REVISED RECORDS.--WRD TN-74-1: Drainage area, WRD TN-87-1 (P).

GAGE.--Water-stage recorder. Datum of gage is 262.92 ft above sea level, (from levels by National Resources Conservation Service).

REMARKS.--No estimated daily discharges. Records good. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 26	2000	*2,720	*13.19				

Minimum daily discharge, 0.00 ft³/s, July 15, 16, Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	29	1.3	3.0	3.0	20	66	3.7	1.1	.90	7.1	2.1
2	.72	30	1.7	2.7	2.2	9.4	493	11	1.2	.48	2.5	1.9
3	.32	6.5	26	56	1.9	9.0	1020	93	.84	.18	1.0	.78
4	.08	1.7	69	28	1.3	6.5	387	114	21	.10	1.4	.87
5	.12	1.4	153	3.0	.99	3.9	90	174	12	.10	5.5	.97
6	.43	1.3	9.4	1.4	.82	2.6	40	159	1.1	.08	1.4	1.4
7	1.1	1.4	2.1	.95	.71	2.0	24	63	.50	.02	.97	.71
8	16	2.0	1.4	1.6	1.1	2.0	22	18	.60	.97	.78	.60
9	70	2.3	67	2.9	.45	59	6.6	20	.42	.13	1.2	.41
10	65	2.6	99	3.5	.89	11	4.9	68	.27	.08	1.0	1.5
11	2.8	1.8	5.0	1.5	1.2	9.7	85	12	.35	.04	10	.91
12	1.1	1.7	788	2.0	9.3	3.5	62	4.9	.50	.05	12	206
13	.70	1.9	366	5.0	250	2.1	42	120	.44	.01	1.9	10
14	.45	2.0	81	2.4	388	1.9	28	5.5	.51	.01	.44	2.0
15	.31	2.4	17	1.8	54	12	18	1.1	46	.00	.38	.43
16	.32	2.3	6.5	1.7	19	1200	11	.99	2.4	.00	.56	.09
17	.25	3.9	3.9	45	111	297	7.4	1.3	94	19	.38	.05
18	.26	2.5	3.0	7.7	479	76	5.1	.86	50	2.4	.31	.04
19	1.0	65	3.2	2.5	232	1220	6.7	1.2	2.4	.16	.10	.04
20	.82	116	2.3	1.4	44	570	3.9	.66	.83	51	.11	.02
21	.53	4.6	1.4	1.0	17	115	1.8	.63	3.9	12	.26	.00
22	.32	1.9	1.1	124	10	46	.94	.70	2.2	.16	.83	.01
23	.17	1.8	1.2	35	15	25	7.2	.85	.44	.01	.56	2.1
24	.12	2.0	1.1	5.9	38	14	134	.82	.57	.01	.46	2.6
25	.07	2.9	.97	3.5	18	138	16	.40	.39	.01	.54	14
26	.05	2.8	1.1	2.6	817	117	4.7	.56	46	.02	.70	4.6
27	.21	2.3	1.0	1.6	726	36	7.6	.84	147	.04	.50	.70
28	.50	2.0	.97	6.6	104	16	11	2.6	4.7	.10	.20	.18
29	.72	1.3	1.4	13	38	7.0	2.4	1.3	51	105	.28	.18
30	.92	1.2	2.1	11	---	28	1.5	1.2	2.1	102	1.5	.04
31	1.1	---	4.0	3.6	---	9.2	---	1.1	---	41	.83	---
TOTAL	168.89	300.5	1722.14	381.85	3383.86	4068.8	2609.74	883.21	494.76	336.06	55.69	255.23
MEAN	5.45	10.0	55.6	12.3	117	131	87.0	28.5	16.5	10.8	1.80	8.51
MAX	70	116	788	124	817	1220	1020	174	147	105	12	206
MIN	.05	1.2	.97	.95	.45	1.9	.94	.40	.27	.00	.10	.00
CFSM	.08	.15	.81	.18	1.71	1.92	1.28	.42	.24	.16	.03	.12
IN.	.09	.16	.94	.21	1.85	2.22	1.42	.48	.27	.18	.03	.14

NONCONNAH CREEK BASIN

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07032200 NONCONNAH CREEK NEAR GERMANTOWN, TN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.3	92.7	168	159	184	206	187	112	64.1	43.5	15.8	23.3
MAX	69.4	323	616	531	604	659	834	407	300	354	77.4	164
(WY)	1990	1989	1983	1974	1989	1980	1991	1979	1974	1989	1978	1977
MIN	.000	.21	2.24	.41	14.6	15.2	9.44	3.74	3.09	.70	.37	.087
(WY)	1970	1972	1977	1986	1978	1986	1978	1988	1988	1976	1980	1984

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

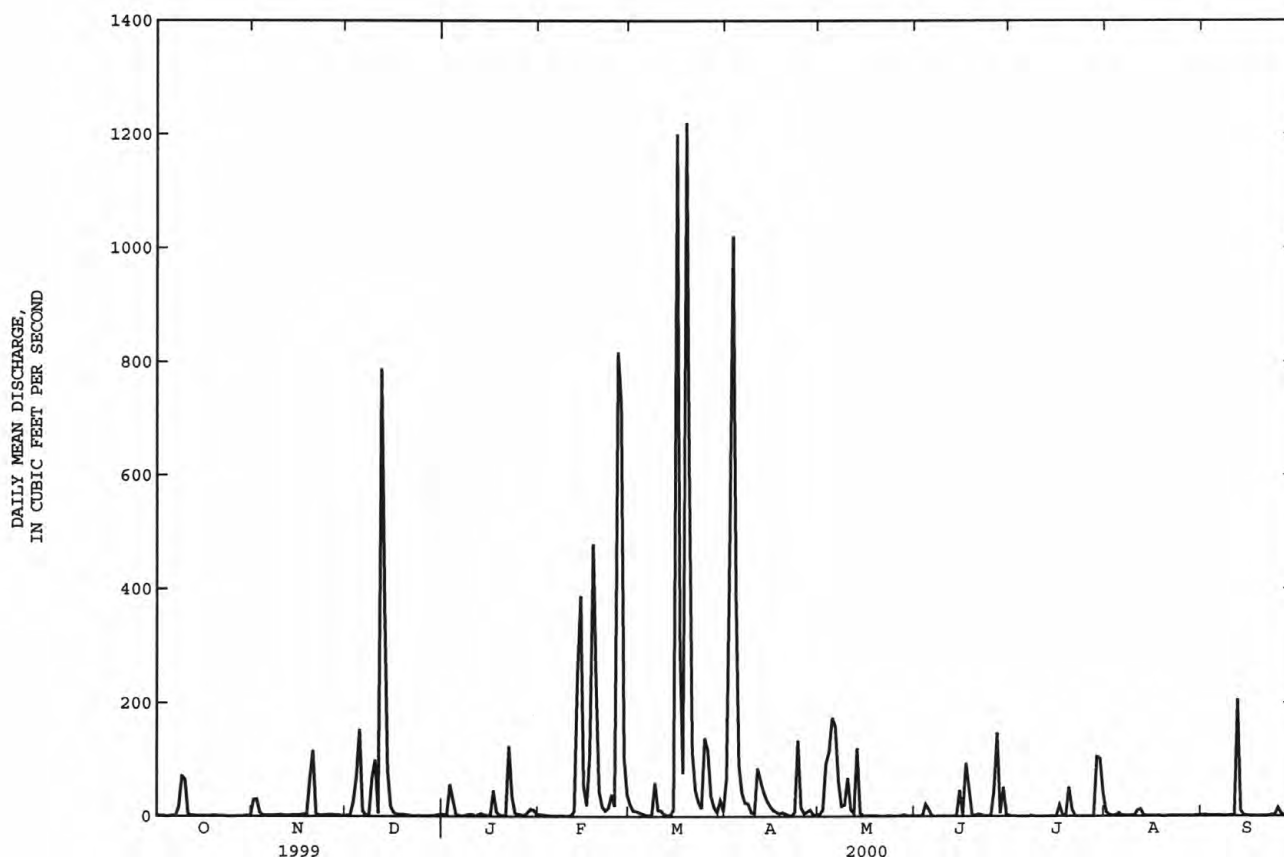
WATER YEARS 1970 - 2000

ANNUAL TOTAL	30150.18	14660.73	
ANNUAL MEAN	82.6	40.1	106
HIGHEST ANNUAL MEAN			215
LOWEST ANNUAL MEAN			22.4
HIGHEST DAILY MEAN	3480	May 5	5900
LOWEST DAILY MEAN	.05	Oct 26	.00
ANNUAL SEVEN-DAY MINIMUM	.21	Oct 22	.00
INSTANTANEOUS PEAK FLOW			13100
INSTANTANEOUS PEAK STAGE			27.11
INSTANTANEOUS LOW FLOW			c.00
ANNUAL RUNOFF (CFSM)	1.21		1.56
ANNUAL RUNOFF (INCHES)	16.45		21.17
10 PERCENT EXCEEDS	120		194
50 PERCENT EXCEEDS	4.5		5.2
90 PERCENT EXCEEDS	.70		.15

a Also occurred July 16, Sept. 21.

b Occurred many days.

c Many days most years.



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for hydrologic studies reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from current meter or indirect measurements of peak flow. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN								
Whiteoak Creek at Sunbright, TN (03409000)	Lat 36°14'38", long 84°40'14", Morgan County, Hydrologic Unit 05130104, at bridge on U.S. Highway 27 in Sunbright. Datum of gage is 1,294.05 ft above sea level. Drainage area is 13.5 mi ² .	1934, 1955-82, 1985-99 2000	4- 3-00	7.72	-	5-27-73	17.24a	5,560
East Fork Obey River near Jamestown, TN (03414500)	Lat 36°24'58", long 85°01'35", Fentress County, Hydrologic Unit 05130105, on right bank 200 ft upstream from bridge on State Highway 52, 0.5 mi upstream from Poplar Cove Creek, 5.3 mi west of Jamestown, and at mile 12.7. Datum of gage is 680.30 ft, Sandy Hook Datum. Drainage area is 202 mi ² includes 6.0 mi ² without surface drainage.	1942-91†, 1992-99 2000	4- 4-00	11.73	6,790	5-27-73	30.46	44,800
Wolf River near Byrdstown, TN (03416000)	Lat 36°33'37", long 85°04'23", Pickett County, Hydrologic Unit 05130105, on right bank 0.3 mi upstream from bridge on county road, 0.5 mi upstream from Widow Creek, 3.2 mi east of Byrdstown, 5.4 mi upstream from Lick Creek, and at mi 26.2. Datum of gage is 707.54 ft, Sandy Hook Datum. Drainage area is 106 mi ² .	1942-91†, 1992-99 2000	5-24-00	7.54	6,100	9- 2-82	17.14	23,500
Doe Creek at Gainesboro, TN (03418201)	Lat 36°21'23", long 85°39'20", Jackson County, Hydrologic Unit 05130106, at bridge on Highway 56, at Gainesboro. Datum of gage is 519.37 ft above sea level. Drainage area is 5.72 mi ² .	1978-99 2000	3-19-00	3.23	-	8-31-82	7.28	-

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
Cane Creek near Spencer, TN (03419200)	Lat 35°44'36", long 85°23'33", Van Buren County, Hydrologic Unit 05130108, at bridge on State Highway 30, 4.0 mi east of Spencer. Drainage area is 134 mi ² .	1997-99 2000	4- 3-00	8.89	-	1- 7-98	11.48	-
Charles Creek near McMinn- ville, TN (03421200)	Lat 35°43'00", long 85°46'05", Warren County, Hydrologic Unit 05130107, at bridge on county road at Faulkner Springs, 2.7 mi north of McMinnville. Drainage area is 31.1 mi ² .	1955-99 2000	4- 3-00	8.40	2,540	6-22-89	17.03	24,800
Mulherrin Creek near Gordons- ville, TN (03424900)	Lat 36°11'28", long 85°57'11", Smith County, Hydrologic Unit 05130108, at bridge on State Highway 53, 1.3 mi upstream from mouth, 1.5 mi northwest of Gordonsville. Drainage area is 26.9 mi ² .	1982, 1986-99 2000	5-25-00	16.24	-	2-14-89	23.85	-
Peyton Creek near Monoville, TN (03425040)	Lat 36°18'37", long 85°59'21", Smith County, Hydrologic Unit 05130201, at county road bridge 1.3, mi north of Monoville.	1999-99 2000	5-25-00	12.65	-	-	-	-
Second Creek near Walnut Grove, TN (03425365)	Lat 36°24'01", long 86°12'48", Trousdale County, Hydrologic Unit 05130201, at culvert on State Highways 10 and 25, 2.6 mi west of Hartsville. Drainage area is 3.47 mi ² .	1986-99 2000	2-13-00	21.77	-	6-10-98	29.48	-
Station Camp Creek at Cottontown, TN (03425637)	Lat 36°27'06", long 86°32'16", Sumner County, Hydrologic Unit 05130201, at State Highway 25 bridge in Cottontown.	1995-99 2000	2-13-00	14.63	-	6- 9-98	16.74	-
East Fork Stones River at Wood- bury, TN (03426800)	Lat 35°49'41", long 86°04'36", Cannon County, Hydrologic Unit 05130203, at bridge on U.S. Highway 70S at Woodbury. Datum of gage is 676.23 ft above sea level. Drainage area is 39.1 mi ² .	1962-89† 1990-99 2000	3-19-00	11.81	3,660	3-15-73	16.75	13,200
Brawleys Fork below Bradyville, TN (03426874)	Lat 35°44'44", long 86°10'14", Cannon County, Hydrologic Unit 05130203, at bridge on Bradyville Pike, 0.5 mi northwest of Bradyville. Drainage area is 15.4 mi ² .	1983-99 2000	3-19-00	25.63	2,280	10- 1-89	27.94	2,850

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
Reed Creek near Bradyville, TN (034269424)	Lat 35°44'44", long 86°12'31", Rutherford County, Hydrologic Unit 05130203, at bridge on Bradyville Pike, 2.4 mi northwest of Bradyville. Drainage area is 3.52 mi ² .	1983-99 2000	3-19-00	2.40	-	4-20-95	5.86	-
East Fork Stones River near Lascassas, TN (03427500)	Lat 35°55'06", long 86°20'02", Rutherford County, Hydrologic Unit 05130203, on left bank 50 ft upstream from highway bridge, 2.5 mi southwest of Lascassas, 3.7 mi downstream of Bradley Creek, 6.0 mi northeast of the courthouse in Murfreesboro, and at mi 15.4. Datum of gage is 507.88 ft, Sandy Hook Datum. Drainage area is 262 mi ² .	1950-58†, 1963-91†, 1992-99 2000	4- 4-00	24.91	13,700	3-13-75	39.48	41,200
Bushman Creek at Pitts Lane Ford near Compton, TN (03427690)	Lat 35°53'08", long 86°20'47", Rutherford County, Hydrologic Unit 05130203, on right bank 75 ft upstream of bridge on De Jarnett Lane, 0.1 mi west of intersection of De Jarnett Lane and State Highway 96, 1.6 mi southwest of Compton. Datum of gage is 569.74 ft above sea level. Drainage area is 9.67 mi ² .	1989-92†, 1993-99 2000	5-25-00	4.76	954	7-21-96	7.24	2,020
Lytle Creek at Sanbyrne Drive at Murfreesboro, TN (03428043)	Lat 35°49'38", long 86°23'28", Rutherford County, Hydrologic Unit 05130203, at bridge on Sanbyrne Drive, 1 mi south of intersection of Highways 41 and 231 in Murfreesboro. Datum of gage is 591.91 ft above sea level. Drainage area is 17.6 mi ² .	1978-90, 1991-92†, 1993-99 2000	5-25-00	.63	-	1-23-99	3.36	-
Unnamed Sink near Almaville, TN (03428270)	Lat 35°51'21", Long 86°32'21" Rutherford Count, Hydrologic Unit 05130203, on left down- stream wingwall of culvert on Shored Road, 2.4 miles south- east of Almaville. Datum of gage is sea level.	1994-99 2000	3-19-00	602.02	-	3-27-94	607.36	-
West Fork Stones River near Smyrna, TN (03428500)	Lat 35°56'25", long 86°27'54", Rutherford County, Hydrologic Unit 05130203, near left bank at county bridge on Sulphur Springs Road, 400 ft upstream from Nice's Mill dam, 1.6 mi downstream from Overall Creek, 4.2 mi southeast of Smyrna, and at mi 6.4. Datum of gage is 500 ft, above sea level. Drainage area is 237 mi ² , includes 43 mi ² without surface drainage.	1965-91†, 1992-99 2000	4- 4-00	10.28	9,590	3-13-75	19.18	63,800

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
Unnamed Sink on I-840 at Leanna, TN (03428513)	Lat 35°56'13", long 86°26'14", Rutherford County, Hydrologic Unit 05130203, 100 ft above culvert on I-840, 0.4 mile southwest of Leanna. Datum of gage is sea level.	1994-99 2000	-	<531.58	-	1-23-99	532.56	-
Unnamed Sink at Leanna, TN (03428515)	Lat 35°56'19", long 86°26'49", Rutherford County, Hydrologic Unit 05130203, 100 ft south of intersection of E. Buckeye Bottom Road and Sulphur Springs Road 0.9 mi west of Leanna. Datum of gage is sea level.	1994-99 2000	5-25-00	512.64	-	1-23-99	515.41	-
McCrory Creek at Ironwood Drive at Donelson, TN (03430118)	Lat 36°09'07", long 86°39'02", Davidson County, Hydrologic Unit 05130203, at bridge under Ironwood Drive, 1.3 mi southeast of intersection of U.S. Highway 70 (Lebanon Road) and Donelson Pike in Donelson. Datum of gage is 430.63 ft above sea level. Drainage area is 7.31 mi ² .	1977-99b 2000	5-25-00	8.27	2,030	5-6-84	9.87	2,850
Mill Creek at Nolensville, TN (03430400)	Lat 35°57'32", long 86°40'31", Williamson County, Hydrologic Unit 05130202, at bridge on Sunset Road, 0.6 mi northwest of Nolensville. Datum of gage is 586.18 ft above sea level. Drainage area is 12.0 mi ² .	1965-99 2000	5-25-00	8.85	8,300	5-7-84	9.82	11,400
Mill Creek near Antioch, TN (03431000)	Lat 36°04'54", long 86°40'50", Davidson County, Hydrologic Unit 05130202, at bridge on Franklin-Limestone Road, 1.6 miles north of Antioch. Datum of gage is 472.93 ft above sea level. Drainage area is 64.0 mi ² .	1954-61†, 1962-63, 1964-75†, 1976-92, 1993-96†, 1997-99 2000	5-25-00	17.23	10,800	5-4-79	23.78	30,100
Sevenmile Creek at Blackman Road, near Nashville, TN (03431040)	Lat 36°04'21", long 86°44'00", Davidson County, Hydrologic Unit 05130202, at bridge on Blackman Road, 7.0 mi southeast of State capitol in Nashville. Datum of gage is 499.08 ft above sea level. Drainage area is 12.2 mi ² .	1965-99 2000	5-25-00	7.20	2,500	6-4-98	10.57	10,500
Mill Creek tributary at Glenrose Avenue, at Woodbine, TN (03431062)	Lat 36°07'02", long 86°43'37", Davidson County, Hydrologic Unit 05130202, at culvert under Glenrose Avenue, 1.1 mi northeast of intersection of Nolensville Road and Thompson Lane in Woodbine, and 750 ft upstream from mouth. Datum of gage is 443.52 ft above sea level. Drainage area is 1.17 mi ² .	1977-99b 2000	5-25-00	6.88	535	5-6-84	9.12	833

See footnotes at the end of the table.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
West Fork Browns Creek at General Bates Drive, at Nashville, TN (03431120)	Lat 36°06'29", long 86°47'07", Davidson County, Hydrologic Unit 05130202, at bridge on General Bates Drive, 4.0 mi south of State capitol in Nashville. Datum of gage is 499.94 ft above sea level. Drainage area is 3.30 mi ² .	1965-99 2000	5-25-00	5.02	780	3-29-75	7.00	2,110
East Fork Browns Creek at 100 Oaks Mall, at Nashville, TN (03431242)	Lat 36°06'36", long 86°46'03", Davidson County, Hydrologic Unit 05130202, at culvert on access road to CarMax, 300 ft west of 100-Oaks Shopping Center, and 4.0 mi southeast and of State capitol in Nashville. Datum of gage is 496.69 ft above sea level. Drainage area is 1.58 mi ² .	2000	5-25-00	501.73	-	-	-	-
Browns Creek at Factory Street, at Nashville, TN (03431340)	Lat 36°08'26", long 86°45'31", Davidson County, Hydrologic Unit 05130202, at bridge on Factory Street, 800 ft downstream from Louisville and Nashville Railroad bridge, and 2.3 mi southeast of State capitol in Nashville. Datum of gage is 420.66 ft above sea level. Drainage area is 13.2 mi ² .	1965-99 2000	5-25-00	7.47	2,190	9-13-79	10.89	7,800
Pages Branch at Avondale, TN (03431490)	Lat 36°12'22", long 86°46'24", Davidson County, Hydrologic Unit 05130202, at culvert under Trinity Lane, 900 ft east of intersection of Interstate 65 and Trinity Lane at Avondale, 0.9 mi upstream from mouth. Drain- age area is 2.01 mi ² .	1977-99b 2000	5-25-00	4.68	371	6- 5-98	6.32	1,430
Earthman Fork at Whites Creek, TN (03431550)	Lat 36°15'55", long 86°49'51", Davidson County, Hydrologic Unit 05130202, at bridge on Whites Creek Pike in town of Whites Creek, 1,800 ft upstream from mouth. Drain- age area is 6.29 mi ² .	1965-99 2000	2-13-00	5.03	5,021	5- 3-93	9.43	2,510
Ewing Creek below Knight Road, near Bordeaux, TN (03431581)	Lat 36°13'55", long 86°48'14", Davidson County, Hydrologic Unit 05130202, at downstream side of bridge on Knight Road, 3.0 mi northeast of Bordeaux. Datum of gage is sea level. Drainage area is 13.3 mi ² .	1976-99 2000	5-25-00	445.00	-	6-9-86	449.80	-
Sugartree Creek at YMCA Access Road, at Green Hills, TN (03431677)	Lat 36°06'13", long 86°49'12", Davidson County, Hydrologic Unit 05130202, at bridge on YMCA Access Road, 0.5 mi southwest of Hillsboro High School, at Green Hills. Datum of gage is sea level, Drain- age area is 1.51 mi ² .	1976-99 2000	5-25-00	544.38	-	9-13-79	545.23	-

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
Sugartree Creek at Abbott Martin Road, at Green Hills, TN (03431679)	Lat 36°06'23", long 86°49'17", Davidson County, Hydrologic Unit 05130202, at bridge on Abbott Martin Road, at inter- section of Bedford Avenue and Abbott Martin Road, at Green Hills. Datum of gage is sea level. Drainage area is 2.19 mi ² .	1976-99 2000	5-25-00	525.45	-	11-27-94	531.54	-
Sycamore Creek near Ashland City, TN (03431800)	Lat 36°19'12", long 87°03'04", Cheatham County, Hydrologic Unit 05130202, near right bank on downstream end of pier of bridge on State Highway 49, at Sycamore, 3.2 mi north of Ashland City, 4.4 mi upstream from Spring Creek, and at mi 8.6. Elevation of gage is 400 ft above sea level, from topographic map. Drainage area is 97.2 mi ² .	1961-87†, 1988-91†, 1992-99 2000	2-14-00	10.88	7,310	2-21-89	13.50	18,500
Murfrees Fork above Burwood, TN (03432470)	Lat 35°48'58", long 86°57'20", Williamson County, Hydrologic Unit 05130204, at county road bridge, just downstream from Cayce Branch, 1.6 mi east of Burwood. Drainage area is 7.43 mi ² .	1986-99 2000	2-13-00	18.44	-	4-86	26.85	-
Little Harpeth River at Granny White Pike, at Brentwood, TN (03432925)	Lat 36°01'30", long 86°49'09", Williamson County, Hydrologic Unit 05130204, at bridge on Granny White Pike, 2.0 mi southwest of Brentwood. Datum of gage is 618.29 ft above sea level. Drainage area is 22.0 mi ² .	1978-99 2000	5-25-00	13.83	4,430	5-4-79	17.55	9,260
Jones Creek near Burns, TN (03434590)	Lat 36°06'15", long 87°19'05", Dickson County, Hydrologic Unit 05130204, at bridge on Rock Church Road, 3.5 mi north of Burns and at mi 21.9. Drainage area is 13.3 mi ² .	1984-99 2000	5-25-00	5.97	1,120	5-6-84	9.87	3,750
Bartons Creek near Cumberland Furnace, TN (034350021)	Lat 36°15'02", long 87°20'00", Dickson County, Hydrologic Unit 05130205, at bridge on Stayton road, 1.9 mi south- east of Cumberland Furnace. Drainage area is 22.3 mi ² .	1984-99 2000	-	<10.22	-	4-16-98	15.88	-
Louise Creek near Grays Chapel, TN (034350035)	Lat 36°21'52", long 87°20'30", Montgomery County, Hydrologic Unit 05130206, at bridge on old State Highway 48, 2.8 mi south of Liverworth. Drainage area is 12.7 mi ² .	1995-99 2000	-	<7.28	-	3-3-97	10.96	-

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
CUMBERLAND RIVER BASIN--Continued								
Honey Run Creek near Cross Plains, TN (034351105)	Lat 36°31'52", long 87°40'10" Robertson County, Hydrologic Unit 05130206, at county road bridge, 1.2 mi north-northwest of Calistia. Drainage area is 17.0 mi ² .	1995-99 2000	2-13-00	14.14	-	6- 9-98	16.66	-
Honey Run Creek below Cross Plains, TN (034351113)	Lat 36°32'31", long 86°42'14", Robertson County, Hydrologic Unit 05130206, at Empson Bridge on county road, 0.4 mi above mouth of Empson branch, 0.6 mi southwest of Cross Plains. Drainage area is 20.0 mi ² .	1986-99 2000	2-13-00	22.20	-	2- 3-90	23.11	-
Beaver Dam Creek above Springfield (03435739)	Lat 36°31'40", long 86°49'29" Robertson County, Hydrologic Unit 05130206, at county road bridge, 3.6 miles north- east of Springfield, and at mile 1.6. Drainage area is 12.9 mi ² .	1995-99 2000	-	<10.04	-	6- 9-98	15.17	-
Sulphur Fork Red River above Springfield, TN (03435770)	Lat 36°30'47", long 86°51'44", Robertson County, Hydrologic Unit 05130206, on left bank 150 ft downstream from new bridge on State Highway 49, 1.2 mi downstream from Beaver Dam Creek, 1.3 mi northeast of Springfield. Datum of gage is 538.17 ft above sea level. Drainage area is 65.6 mi ² .	1975-88†, 1988-99 2000	5-25-00	10.68	3,290	3- 3-97	14.52	12,100
Spring Creek tributary near Cedar Hill, TN (03435930)	Lat 36°32'08", long 86°59'26", Robertson County, Hydrologic Unit 05130206, at culvert on Kinney Road, 1.2 mi southeast of Cedar Hill. Drainage area is 1.40 mi ² .	1986-99 2000	5-25-00	18.52	34.1	5-17-90	22.23	141
Sulphur Fork Red River above Port Royal, TN (03436082)	Lat 36°32'23", long 87°06'51", Robertson County, Hydrologic Unit 05130206, at bridge on State Highway 76 1.7 miles southeast of Port Royal. Drainage area is 214 mi ² .	1995-99 2000	-	<26.86	-	3- 3-97	42.06	-
Passenger Creek near Sango, TN (03436130)	Lat 36°32'07", long 87°11'50" Montgomery County, Hydrologic Unit 05130206 at county road bridge 2.0 mi northeast of Sango. Datum of gage is sea level. Drainage area is 20.5 mi ² .	1995-99 2000	-	<394.17	-	3- 3-97	405.76	-
Cummings Creek near Dotson- ville, TN (03436505)	Lat 36°29'18", long 87°28'06", Montgomery County, Hydrologic Unit 05130205, at bridge on Dotsonville Road, 1.1 mi northeast of Dotsonville. Drainage area is 2.65 mi ² .	1984-99 2000	5-25-00	6.85	-	12-25-87	9.45	-

See footnotes at the end of the table.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN								
Yellow Creek near Shiloh, TN (03436700)	Lat 36°20'55", long 87°32'20", Montgomery County, Hydrologic Unit 05130205, at bridge on State Highway 13, 2.6 mi west of Shiloh, 3.0 mi downstream from Leatherwood Creek, 9.0 mi east of Erin. Datum of gage is 390.13 ft above sea level. Drainage area is 124 mi ² .	1957-80† 1982-98 2000c	unknown		--	5- 6-84	17.75	16,200
Caney Creek near Cosby, TN (03461230)	Lat 35°47'03", long 83°12'11", Cocke County, Hydrologic Unit 06010106, at culvert under State Highway 32, 3.3 mi southeast of Cosby. Drainage area is 1.62 mi ² .	1967-99 2000	6-29-00	3.70	52	1-26-96	6.45	275
Cherokee Creek near Embree- ville, TN (03465607)	Lat 36°12'24", long 82°29'23", Washington County, Hydrologic Unit 06010108, at culvert on county road, 0.5 mi southeast of Mayday, 1.4 mi northwest of Kansas City, and at mi 1.3. Drainage area is 22.9 mi ² .	1984-99 2000	6-29-00	13.17	-	5- 7-84	18.37	-
Clear Fork near Fairview, TN (03465780)	Lat 36°19'33", long 82°33'47", Washington County, Hydrologic Unit 06010108, at culvert on State Highway 81, 2.0 mi southwest of Sulfur Springs, and at mi 3.8. Drainage area is 10.5 mi ² .	1983-99 2000	7-24-00	5.84	-	5-29-96	7.46	-
Lick Creek near Albany, TN (03466890)	Lat 36°14'54", long 82°55'34", Greene County, Hydrologic Unit 06010108, at State Highway 70 bridge, 0.3 mi downstream from Punccheon Camp Creek, 1.0 mi northwest of Albany, and at mi 33.7. Drainage area is 172 mi ² .	1984-99 2000	4- 4-00	11.90	2,000	3-27-94	17.41	10,800
Bent Creek at Taylor Gap, TN (03467480)	Lat 36°14'08", long 83°06'41", Hamblen County, Hydrologic Unit 06010108, at bridge on county road (Mountain Valley Road), 2.1 mi southwest of Bulls Gap, 5.0 mi southeast of Russellville. Drainage area is 2.18 mi ² .	1986-99 2000	4- 3-00	12.26	1,350	3-27-94	15.56	2,550
Carter Branch near White Pine, TN (03467992)	Lat 36°07'05", long 83°18'55", Jefferson County, Hydrologic Unit 06010108, at bridge on county road, 1.6 mi north- east of Kimbrough Crossroad, 1.8 mi northwest of White Pine. Drainage area is 4.25 mi ² .	1986-99 2000	-	<4.83	-	4-29-97	9.14	-
Cedar Creek near Valley Home, TN (03467993)	Lat 36°08'03", long 83°18'47", Jefferson County, Hydrologic Unit 06010108, at culvert on county road, 1.7 mi southeast of Valley Home, 1.9 mi south- east of Witt, 2.2 mi northwest of White Pine. Drainage area is 2.01 mi ² .	1986-99 2000	4- 3-00	11.91	99	4-29-97	13.38	210

See footnotes at the end of the table.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Sinking Fork at White Pine, TN (03467998)	Lat 36°07'21", long 83°17'44", Jefferson County, Hydrologic Unit 06010108, at culvert on county road, 0.9 mi north- west of White Pine, 2.7 mi northeast of Kimbrough Cross- road. Drainage area is 6.38 mi ² .	1986-99 2000	7-13-00	7.42	1,740	7-13-00	7.42	1,740
Dumplin Creek at Mt. Hareb, TN (03470215)	Lat 36°04'59", long 83°25'51", Jefferson County, Hydrologic Unit 06010107, at culvert on county road, 0.8 mi southeast of Mt. Hareb, 4.3 mi south- east of Jefferson City, 4.6 mi north of Dandridge. Drainage area is 3.65 mi ² .	1986-99 2000	4- 3-00	9.48	43	5-28-90	10.92	211
Indian Creek at Childress, TN (03476960)	Lat 36°25'38", long 82°15'54", Sullivan County, Hydrologic Unit 06010102, at bridge on U.S. Highway 19, 3.3 mi south of Bluff City, and at mi 4.6. Drainage area is 6.79 mi ² .	1983-99 2000	4- 3-00	6.95	-	5- 7-84	10.73	-
Reedy Creek at Orebank, TN (03487550)	Lat 36°33'42", long 82°27'36", Sullivan County, Hydrologic Unit 06010102, 80 ft upstream from culvert, 0.3 mi north of Orebank, 1.0 mi upstream from Gaines Branch, and at mi 9.8. Drainage area is 36.3 mi ² .	1963-89†, 1990-99 2000	4- 4-00	4.57	441	10- 2-77	11.61	4,940d
Forgey Creek at Zion Hill, TN (03490522)	Lat 36°29'12", long 82°53'08", Hawkins County, Hydrologic Unit 06010104, at culvert on county road (Carter Valley Road), 0.9 mi north of Zion Hill, 7.8 mi northeast of Rogersville. Drainage area is 0.86 mi ² .	1986-99 2000	2000	<17.93	<56	7-21-99 1986 1987 5-10-88 7-27-89 1990 6- 4-91 1992 2-21-93 3-27-94 1995 1996 1997 4-16-98	21.93 <17.96 <17.96 18.02 21.03 <17.94 19.41 <17.93 18.03 19.15 <17.93 <17.93 <17.93 21.24	321e <56e <56e 60e 263e <56e 135e <56e 60e 120e <56e <56e <56e 280e
Robertson Creek near Persia, TN (03491540)	Lat 36°20'24", long 83°02'27", Hawkins County, Hydrologic Unit 06010104, at bridge on State Highway 113, 0.25 mi below Mooney Branch, and at mi 3.0. Drainage area is 14.6 mi ² .	1986-99 2000	4- 3-00	10.64	653	8-13-93 3-27-94	12.50 12.50	1,120 1,120

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Dry Land Creek tributary near New Market, TN (03494714)	Lat 36°03'33", long 83°34'13", Jefferson County, Hydrologic Unit 06010104, at culvert on county road (Rocky Valley Road), 3.0 mi south of New Market, 3.3 mi northwest of Piedmont. Drainage area is 0.20 mi ² .	1986-99 2000	5-23-00	10.99	34	4-17-98 1986 1-19-87 2- 4-88 5- 5-89 3-17-90 12-23-90 12- 2-91 4- 9-93 6-27-94 2-16-95 1-26-96 1- 7-97 7- 7-99	13.22 <10.04 12.01 10.35 12.42 11.51 11.65 11.44 10.29 12.86 10.86 10.69 12.82 12.35	82e <22e 52e 24e 58e 43e 45e 40e 23e 71e 32e 30e 70e 55e
Flat Creek at Luttrell, TN (03494990)	Lat 36°11'45", long 83°44'44", Union County, Hydrologic Unit 06010104, at bridge on State Highway 61, 0.3 mi southwest of Luttrell, 3.5 mi northwest of Blaine. Drainage area is 22.4 mi ² .	1986-99 2000	4- 4-00	10.25	-	7-1-97	13.85	-
Little Ellejoy Creek at Prospect, TN (03498010)	Lat 35°48'23", long 83°47'57" Blount County, Hydrologic Unit 06010201, at bridge on county road, 0.4 mi south of Prospect, at mile 1.93. Drainage area is 5.48 mi.	1995-99 2000	5-24-00	6.09	-	5-19-95	6.98	-
Stock Creek at Pickins Gap Road near High Bluff, TN (034991105)	Lat 35°53'03", long 83°50'18" Knox County, Hydrologic Unit 06010201, at bridge on Pickins road, near High Bluff, TN.	2000	9-25-00	4.22	-	-	-	-
Ten Mile Creek at Robinson Road near Knoxville, TN (03499175)	Lat 35°56'42", long 84°03'24" Knox County, Hydrologic Unit 06010201, at bridge on Robinson Creek road, near Cedar Bluff, TN.	2000	9-25-00	5.18	-	-	-	-
Baker Creek tributary near Binfield, TN (03519610)	Lat 35°41'56", long 84°02'46", Blount County, Hydrologic Unit 06010204, at culvert under county road, 1.5 mi east of Binfield. Drainage area is 2.10 mi ² .	1966-77, 1979-99 2000	4- 3-00	3.79	90	6-23-81	8.29	-
Big War Creek at Luther, TN (03527800)	Lat 36°27'18", long 83°14'29", Hancock County, Hydrologic Unit 06010205, at bridge on county road, 0.4 mi south of Luther 0.8 mi northwest of Yount Town, 6.0 mi southwest of Sneedville. Drainage area is 22.3 mi ² .	1986-99 2000	4- 3-00	6.81	1,030	4-17-98	10.61	4,100
Crooked Creek near Maynard- ville, TN (03528390)	Lat 36°15'56", long 83°50'25", Union County, Hydrologic Unit 06010205, at culvert on State Highway 170, 2.5 mi northwest of Maynardville, 5.5 mi north- east of Paulette. Drainage area is 2.23 mi ² .	1986-99 2000	4- 3-00	2.39	140	4-17-98	9.76	1,400

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Coal Creek at Lake City, TN (03534000)	Lat 36°13'14", long 84°09'27" Anderson County, Hydrologic Unit 06010207, at bridge on U.S. Highway 25-W, at Lake City. Datum of gage is 842.76 ft above sea level. Drainage area is 24.5 mi ² .	1932-34†, 1955-99 2000	4- 3-00	6.42	3,190	4-17-98	10.65	8,080
Willow Fork near Halls Cross- roads, TN (03535180)	Lat 36°05'59", long 83°54'27", Knox County, Hydrologic Unit 06010207, at culvert under Quarry Road, 1.7 mi northeast of Halls Crossroads. Datum of gage is 1,027.82 ft above sea level. Drainage area is 3.23 mi ² .	1967-99 2000	4- 3-00	5.52	72	4-17-98	8.40	990
Beaver Creek near Willow Fork at Halls Cross- roads, TN (035351830)	Lat 36°04'57", long 83°55'34", Knox County, Hydrologic Unit 06010207, at bridge on Old Andersonville Pike.	1998-99 2000	4- 4-00	10.85	-	6-28-99	15.13	-
Beaver Creek at Brickyard Road near Powell, TN (03535195)	Lat 36°01'36", long 84°01'39", Knox County, Hydrologic Unit 06010207, at bridge on Brickyard Road, near Powell High School. Drainage area is 52.5 mi ² .	1998-99 2000	4- 4-00	9.23	-	6-28-99	10.94	-
Conner Creek at Steele Road near Solway, TN (03535617)	Lat 35°56'05", long 84°11'18" Knox County, Hydrologic Unit 06010201, at bridge on Steele road near Solway	2000	4- 3-00	8.14	-	-	-	-
Coker Creek near Ironsburg, TN (03555900)	Lat 35°13'05", long 84°20'28", Monroe County, Hydrologic Unit 06020002, at bridge on State Highway 68, 4.2 mi southwest of Coker Creek. Drainage area is 22.4 mi ² .	1983-93f 1997-99 2000	4- 3-00	11.55	-	4-17-98	13.38	-
Wolftever Creek near Ooltewah, TN (03566420)	Lat 35°03'43", long 85°03'59", Hamilton County, Hydrologic Unit 06020001, on right downstream wingwall of county road bridge, 0.6 mi downstream from Southern Railway bridge, 0.9 mi south of Ooltewah, 1.6 mi upstream from Little Wolftever Creek, and at mi 16.1. Drainage area is 18.8 mi ² .	1964-89†, 1992-99 2000	4- 3-00	6.75	1,300	3-16-73	9.75	7,300
North Chickamauga Creek at Greens Mill, near Hixson, TN (03566599)	Lat 35°10'30", long 85°13'40", Hamilton County, Hydrologic Unit 06020001, at bridge on Boy Scout Road, 2.3 mi north of Hixson. Drainage area is 99.5 mi ² .	1925,1944, 1953-56, 1980-99 2000	4- 3-00	32.55	-	10- 5-95	36.19	-

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Stringers Branch at Leawood Drive, at Red Bank, TN (03569168)	Lat 35°07'00", long 85°17'28", Hamilton County, Hydrologic Unit 06020001, at bridge on Leawood Drive at Red Bank. Drainage area is 1.54 mi ² .	1980-99 2000	4- 3-00	24.78	-	8-11-96	28.24	-
Little Sequatchie River at Sequatchie, TN (03571500)	Lat 35°07'47", long 85°35'10", Marion County, Hydrologic Unit 06020004, at Highway 27 bridge, 1.0 mi northeast of Sequatchie. Drainage area is 116 mi ² .	1925,1929, 1930, 1932-34†, 1944, 1951-54, 1965,1979-99 2000	4- 3-00	10.72	8,860	12-22-90	11.78	10,600
Standifer Branch at Jasper, TN (03571730)	Lat 35°04'22", long 85°36'56", Marion County, Hydrologic Unit 06020004, at bridge on U.S. Highways 41, 64, and 72, 0.6 mi east of courthouse, 0.8 mi above Town Creek, at Jasper. Drainage area is 15.3 mi ² .	1982-99 2000	4- 3-00	17.40	-	12-22-90	19.59	-
Battle Creek near Mont- eagle, TN (03571800)	Lat 35°08'03", long 85°46'15", Marion County, Hydrologic Unit 06030001, at bridge on former U.S. Highways 41 and 64, 9.2 mi southeast of Monteagle. Datum of gage is 621.51 ft above sea level. Drainage area is 50.4 mi ² .	1955-99 2000	4- 3-00	9.32	5,080	3-12-63	12.20	10,200
Richland Creek near Corners- ville, TN (03583300)	Lat 35°19'10", long 86°52'20", Marshall County, Hydrologic Unit 06030004, at bridge on U.S. Highway 31-A, 3.4 mi southwest of Corners- ville. Datum of gage is 754.28 ft above sea level. Drainage area is 47.5 mi ² .	1962-68†, 1969-99 2000	3-10-00	11.29	3,170	7-11-89	16.58	11,400
Indian Creek near Olivehill, TN (03594153)	Lat 35°16'33", long 88°01'12", Hardin County, Hydrologic Unit 06040001, on State High- way 64, 14 mi east of Savannah. Datum of gage is 440.00 ft above sea level. Drainage area is 158 mi ² .	1997-99 2000	4- 4-00	6.75	-	1-22-99	17.06	-
Owl Creek at Lexington, TN (035944242)	Lat 35°38'26", long 88°22'13", Henderson County, Hydrologic Unit 06040001, on State High- way 20, 1.37 mi east of Lexington, and at mi 1.3. Datum of gage is 400.00 ft above sea level, prior to March 15, 1990 unknown. Drainage area is 2.50 mi ² .	1984-99 2000	3-19-00	22.70	-	3-2-97	26.64	-
Wartrace Creek above Bell Buckle, TN (03597300)	Lat 35°37'45", long 86°21'22", Bedford County, Hydrologic Unit 06040002, at culvert under county road, 2.7 mi north of Bell Buckle. Drain- age area is 4.99 mi ² .	1966-99 2000	4- 3-00	6.72	892	3-15-73	12.64	3,220

See footnotes at the end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Fountain Creek near Culleoka, TN (03599430)	Lat 35°28'18", long 86°57'23", Maury County, Hydrologic Unit 0604002, on upstream side of bridge on State Highway 50-A, 1.6 mi southeast of Culleoka. 2.7 mi upstream from Globe Creek, and 9.7 mi west of courthouse in Lewisburg. Drainage area is 26.9 mi ² .	1966-68†, 1997-99 2000	5-23-00	6.14	1,190	5-13-67	14.16	9,280
West Piney River at Hwy 70 near Dickson, TN (03602170)	Lat 36°05'21", long 87°28'12", Dickson County, Hydrologic Unit 06040003, at U.S. Highway 70 bridge, 4.0 mi west of Dickson. Drainage area is 2.16 mi ² .	1984-99 2000	-	<22.25	-	5- 6-84	28.17	1,230
Piney River at Vernon, TN (03602500)	Lat 35°52'16", long 87°30'05", Hickman County, Hydrologic Unit 06040003, on right downstream side of bridge, 40 ft upstream from Pretty Creek, 0.2 mi northwest of Vernon, 2.3 mi downstream from Mill Creek, 6.5 mi north of Centerville, and at mile 8.3. Drainage area is 193 mi ² .	1925-93†, 1997-99 2000	5-25-00	6.01	1,460	5-27-91	24.42	49,400
Coon Creek above Chop Hollow, near Hohenwald, TN (03604090)	Lat 35°35'19", long 87°41'09", Perry County, Hydrologic Unit 06040004, at bridge on State Highway 20, 9.0 mi northwest of Hohenwald. Drainage area is 6.02 mi ² .	1967-99 2000	-	<2.46	-	12- 9-72	6.80	3,150
Blue Creek near New Hope, TN (03604580)	Lat 36°03'52", long 87°38'58", Humphreys County, Hydrologic Unit 06040003, at county road bridge, 1.8 mi northwest of New Hope, 3.1 mi southeast of McEwen, and at mi 3.9. Drainage area is 13.2 mi ² .	1984-99 2000	2-13-00	17.49	-	6-13-89	18.82	-
Trace Creek above Denver, TN (03605555)	Lat 36°03'08", long 87°54'27", Humphreys County, Hydrologic Unit 06040005, on left bank at bridge on U.S. Highway 70, 1.0 mi northeast of New Johnsonville. Datum of gage is 377.05 ft above sea level. Drainage area is 31.9 mi ² .	1963-88†, 1989-99 2000	-	<7.28	-	5- 6-84	13.61	11,700
Cane Creek at Stewart, TN (03605880)	Lat 36°19'09", long 87°50'21", Houston County, Hydrologic Unit 06040005, at bridge on county road, 200 ft north of intersection of county road and State Highway 147, and at mi 7.0. Drainage area is 4.12 mi ² .	1984-99 2000	5-25-00	16.41	-	2- 4-97	19.62	-

See footnotes at the end of table.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
OBION RIVER BASIN								
Neil Ditch near Henry, TN (07024225)	Lat 36°10'19", long 88°23'33", Henry County, Hydrologic Unit 08010203, located on county road, 2.7 mi southeast of Henry, 1.6 mi north of Henry-Carroll county line. Drainage area is 4.07 mi ² .	1984-99 2000	-	<7.63	-	12-21-90	14.48	-
Little Reedy Creek near Huntingdon, TN (07024370)	Lat 35°55'44", long 88°29'50", Carroll County, Hydrologic Unit 08010203, located on U.S. High- way 70, 0.6 mi southwest of Leach, 5.6 mi northeast of Cedar Grove. Drainage area is 0.91 mi ² .	1984-99 2000	-	<12.10	-	3- 2-97	16.88	-
South Fork Obion River near Greenfield, TN (07024500)	Lat 36°07'05", long 88°48'39", Weakley County, Hydrologic unit 08010203, located on U.S. Highway 45E, 2.5 mi south of Greenfield. Datum of gage is 300.36 ft above sea level. Drainage area is 383 mi ² .	1929-89†, 1990-93, 1997-99 2000	5- 27-00	12.16	3,185	1-22-37	17.82	25,600
Spring Creek near Greenfield, TN (07024760)	Lat 36°11'24", long 88°45'53", Weakley County, Hydrologic Unit 08010203, on State High- way 54, 3.2 mi northeast of Greenfield. Datum of gage is 300.00 ft above sea level, Drainage area is 93.4 mi ² .	1997-99 2000	3-19-00	23.43	-	3- 2-97	28.03	-
North Fork Obion River near Martin, TN (07025400)	Lat 36°24'20", long 88°51'20", Weakley County, Hydrologic Unit 08010203, located on U.S. Highway 45E, 4.0 mi north of Martin. Datum of gage is 303.46 ft above sea level. Drainage area 372 mi ² .	1939-67g 1997-99 2000	5-27-00	19.32	10,500	11-19-57	23.05	30,300
North Fork Obion River near Union City, TN (07025500)	Lat 36°23'59", long 88°59'43", Obion County, Hydrologic Unit 08010202, at bridge on State Highway 22, 3.9 miles south- east of Union City. Datum of gage is 285.80 ft above sea level. Drainage area is 480 mi ² .	1929-66†, 1967-71†, 1989-93†, 1994-99 2000	5-27-00	-	-	1-22-37	23.08	49,200
North Fork Forked Deer River at U.S. Highway 45W Bypass at Trenton, TN (07028505)	Lat 35°58'58", long 88°55'49", Gibson County, Hydrologic Unit 08010204, at bridge on U.S. Highway 45W Bypass, 0.25 mi north of intersection of U.S. Highway 45W Bypass and State Highways 77 and 104 in Trenton. Datum of gage is 306.85 ft above sea level. Drainage area is 73.9 mi ² .	1987-99 2000	12-13-99	5.87	-	12-21-90	12.00	-
Lewis Creek near Dyersburg, TN (07029090)	Lat 36°03'14", long 89°21'42", Dyer County, Hydrologic Unit 08010204, at bridge on U.S. Highway 51 (Business Route), 2.1 mi northeast of square in Dyersburg. Datum of gage is 276.52 ft above sea level. Drainage area is 25.5 mi ² .	1955-78, 1980-83, 1985-99 2000	5-27-00	14.69	1,100	3- 9-64	19.31	5,450

See footnotes at the end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
OBION RIVER BASIN--Continued								
Hatchie River at Sunnyhill, TN (07029900)	Lat 35°31'23", long 89°15'12", Haywood County, Hydrologic Unit 08010208, at bridge on State Highway 76, 0.6 mi south of Sunnyhill, 4.9 mi south of Brownsville. Drainage area is 1,858 mi ² .	1997-99 2000	4- 9-00	30.85	-	3-5-97	34.21	-
Cane Creek at Ripley, TN (07030100)	Lat 35°45'25", long 89°33'05", Lauderdale County, Hydrologic Unit 08010208, at bridge on State Highway 19, 1.3 mi upstream from Hyde Creek, 1.5 mi northwest of Ripley. Datum of gage is 295.93 ft above sea level, Drainage area is 33.9 mi ² .	1957-62†, 1963-70, 1986-88†, 1989-99 2000	-	<14.18	-	7- 1-89	23.16	6,360

† Operated as a continuous-record gaging station.

a A gage height of 17.45 ft occurred on 3-23-29.

b Operated as a flood hydrograph station.

c Gage destroyed.

d A peak discharge of 11,000 ft³/s occurred on 5-30-27, from reports of Tennessee Valley Authority.

e Not previously published.

f Datum of gage prior to 1995 water year unknown due to bridge replacement.

g Data provided by U.S. Army Corps of Engineers.

Miscellaneous Sites

Measurements of streamflow at points other than gaging stations are given in the following table. Measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger(†).

Discharge measurements made at miscellaneous sites during water year 2000

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN						
03497130 Silers Creek	Fish Camp Prong to Little River to Tennessee River	Lat 35°35'42", long 83°34'04" Sevier County, Hydrologic unit 06010201 0.1 mi above confluence with Fish Camp Prong, 2.8 mi north of Silers Bald.		1999	11- 5-99 12- 1-99 1-12-00 6-22-00 7-25-00	2.35 3.61 8.55 3.98 1.57
03539820 Emory River	Tennessee River	Lat 36°04'09", long 84°39'46", Morgan County, Hydrologic Unit 06010208, at county bridge, 0.6 mi west of Nemo, at river mile 27.7.	612	1999	6- 1-99 7- 9-99 8-10-99 9-13-99 10- 6-99	97 490 37 7.42 3.98
03557148 Conasauga Creek	Hiwassee River to Tennessee River	Lat 35°17'04", long 84°39'46", Morgan County, Hydrologic Unit 06020002, 300 ft below Hwy bridge on US Hwy 411, 2.5 mi south of Etowa.		1999	8- 6-99 9-27-99 4-11-00 5-18-00 5-18-00	35.6 22.8 121 52.2 53.5
03600085 Carters Creek	Duck River to Tennessee River	Lat 35°43'39", long 86°59'19", Maury County, Hydrologic Unit 06040003, at bridge on Petty Lane, 0.8 mi north of Carters Creek, and at mile 4.7.	16.6	1986-99	10-26-99 2-7-00 7- 6-00 8-15-00	.26 5.94 .74 .19
03600086 Carters Creek Tributary	Carters Creek to Duck River to Tennessee River	Lat 35°43'34", long 86°59'19", Maury County, Hydrologic Unit 06040003, at culvert on Carters Creek Road, 0.7 mi north of Carters Creek.	2.94	1986-99	10-26-99 2-7-00 7- 6-00 8-15-00	.18 1.24 1.70 .10
LOOSAHATCHIE RIVER BASIN						
07030226 Laurel Creek	Loosahatchie River	Lat 35°18'47", long 89°29'42" Fayette County, Hydrologic unit 08010209, at bridge on Lambert Road, 0.6 mi west of junction with Oakland Road at Lambert.	18.9		3- 1-00 4- 6-00 4- 6-00 4-11-00	1.46 3.66 2.13 13.6
07030270 Clear Creek	Loosahatchie River	Lat 35°16'20", long 89°42'20" Shelby County, Hydrologic unit 08010209, on State Highway 70 and 79, 3 mi Southwest of Arlington, 1.25 mi from confluence with Loosahatchie River.	61.0	1954 1955 1962 1964 1965 1967 1999	3- 1-00 3-21-00 3-21-00 4- 6-00	13.0 76.2 11.9 31.8

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Discharge measurements made at miscellaneous sites during water year 2000

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
LOOSAHATCHIE RIVER BASIN--Continued						
07030357 Loosahatchie River	Mississippi River	Lat 35°15'15", long 90°01'34" Shelby County, Hydrologic unit 08010209, at bridge on North Watkins Street, 1.4 mi west of junction with U.S. Highway 51, and at mile 5.1.	728		3-9-00	103
					4-12-00	2550a
					5-19-00	141e
					6-15-00	1650e
					6-15-00	1617
NONCONNAH CREEK BASIN						
07032251 Nonconnah Creek	Mississippi River	Lat 35°04'32", long 90°03'55" Shelby County, Hydrologic unit 08010211, at bridge on Rivergate Street, 0.25 mi west of Horn Lake Road in Memphis and at mile 1.8	182		3-9-00	309
					4-13-00	6450
					6-15-00	958

a Affected by backwater conditions

e Estimated

Springs

In 1931 a study of large springs in Tennessee was made and the results published in WSP 713. From 1950 to 1954 a more detailed study, including some of these springs, was made. Results of this study and all subsequent spring measurements were published annually in WSP'S from 1950 to 1960. Since 1960 results of measurements have been published in annual State reports. Measurements made in the 2000 water year are given in the following table.

Discharge measurement of springs during water year 2000

Site number and name	Location	Tributary to	Date	<u>Discharge</u> (gpm) (ft ³ /sec)	
BEDFORD COUNTY					
03596110 Big Spring	Lat 35°25'16", long 86°08'16", Hydrologic Unit 06040002, 2.4 mi southeast of Normandy.	Crumpton Creek to Elk	2-09-00	1,510	3.37
		River to Duck River to	2-15-00	1,580	3.52
		Tennessee River	4-05-00	1,400	3.12
COFFEE COUNTY					
03596485 Cascade Spring	Lat 35°25'10", long 86°14'26", Hydrologic Unit 06040002, 3.2 mi south of Normandy Dam.	Cascade Branch to	2-01-00	162	.36
		Duck River to	2-15-00	242	.54
		Tennessee River	4-05-00	440	.98
MARSHALL COUNTY					
03599102 Wilson Spring	Lat 35°30'30", long 86°45'55", Hydrologic Unit 06030003, 2.0 mi northwest of Hillsboro.	Rock Creek to East	2-22-00	121	.27
		Rock Creek to Duck	4-05-00	251	.56
		River to Tennessee	4-25-00	588	1.31
		River	5-16-00	26.9	.06
			6-02-00	13.5	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

Miscellaneous synoptic sampling sites are short-term sites at which water-quality data are collected during a selected seasonal or hydrologic period. These data are used to assess the spatial distribution of water-quality conditions as a result of factors, such as land use, for the period and conditions sampled. The sites shown on the following pages are synoptic sampling sites for the National Water-Quality Assessment (NAWQA) Program.

TENNESSEE RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03601852 - BIG SWAN CREEK AT GORDENSBURG, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATUR-ATION (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	
MAY 02...	1200	43	110	8.0	18.5	763	1	10.0	107	K14	
AUG 29...	0830	15	136	7.6	22.5	759	<1	6.7	78	80	
DATE		HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	
MAY 02...	55	8	17.1	2.93	1.2	4	.1	.5	57	46	
AUG 29...	67	10	20.9	3.53	1.1	3	.1	.6	69	56	
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 02...	9.0	1.9	<.1	5.9	70	67	.10	<.010	.056	<.020	
AUG 29...	6.5	1.5	.1	8.7	77	77	.10	<.010	.100	<.020	
DATE		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	
MAY 02...	E.10	E.10	.020	.019	.015	E10	4	1.1	<.2		
AUG 29...	<.10	E.10	.044	.041	.033	<10	2	.73	<.2		

K--Results based on non-ideal colony count.

E--Estimated

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03588420 - CHISHOLM CREEK NEAR WESTPOINT, TN

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	
MAY 01...	1230	67	58	7.9	16.0	763	2	9.7	98	K9	
AUG 30...	0930	14	86	7.5	24.0	759	2	6.4	77	88	
DATE		HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03 (39086)	
MAY 01...	27	2	8.32	1.51	.9	6	.1	.7	30	25	
AUG 30...	40	2	12.5	2.05	1.0	5	.1	1.1	46	38	
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 01...	2.4	1.7	<.1	5.1	37	36	.05	<.010	.194	<.020	
AUG 30...	1.9	1.6	<.1	6.9	49	50	.07	<.010	.143	<.020	
DATE		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
MAY 01...	E.10	.12	.31	E.006	<.006	<.010	E10	9	.70	<.2	
AUG 30...	<.10	E.10	--	.010	.007	<.010	<10	14	.56	.2	

K--Results based on non-ideal colony count.
E--Estimated

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03588350 - FACTORY CREEK ABOVE WESTPOINT, TN

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
MAY 01...	1600	70	41	7.3	18.0	758	1	9.8	104	K9
AUG 29...	1700	26	54	7.6	25.5	755	1	7.4	91	29

DATE	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	HARD-NESS NONCARBONATE FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CaCO3 (39086)
MAY 01...	18	1	5.34	1.09	.8	8	.1	.5	20	16
AUG 29...	22	0	6.81	1.29	.9	7	.1	.6	27	22

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 01...	2.2	1.5	<.1	6.0	30	28	.04	<.010	.150	<.020
AUG 29...	1.6	1.2	<.1	7.5	34	34	.05	<.010	.122	<.020

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
MAY 01...	<.10	E.10	E.004	E.004	<.010	E10	3	.61	<.2
AUG 29...	<.10	<.10	.011	.009	<.010	<10	4	.36	<.2

K--Results based on non-ideal colony count.
E--Estimated

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03603765 - FORTYEIGHT CREEK NEAR TOPSY, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
MAY 02...	0915	60	78	7.9	15.5	759	1	9.0	91	94
AUG 29...	1415	19	95	8.0	25.5	757	1	8.0	99	43
DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
MAY 02...	35	--	11.5	1.45	1.0	6	.1	.5	44	36
AUG 29...	44	1	14.8	1.77	1.0	5	.1	.6	53	44
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAY 02...	2.9	1.7	<.1	5.6	47	47	.06	<.010	.104	<.020
AUG 29...	2.3	1.3	<.1	7.9	54	56	.07	<.010	.069	<.020
DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	
MAY 02...	E.10	E.10	E.004	E.003	<.010	<10	4	.59	<.2	
AUG 29...	<.10	E.10	.013	.011	<.010	<10	7	.47	.2	

E--Estimated

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03603900 - GREEN RIVER NEAR TOPSY, TN

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	
MAY 02...	0815	63	76	7.5	16.0	761	1	10.8	110	K20	
AUG 29...	1200	17	103	7.7	24.5	759	0	6.9	83	99	
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)
MAY 02...	35	4	11.0	1.68	1.6	9	.1	.9	37	30	
AUG 29...	45	4	14.7	2.05	2.0	9	.1	1.0	50	41	
DATE		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
MAY 02...	4.5	2.4	<.1	3.6	50	45	.07	<.010	.314	<.020	
AUG 29...	4.2	2.7	<.1	7.4	57	59	.08	<.010	.109	<.020	
DATE		NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	
MAY 02...	E.10	E.10	.020	.018	.016	<10	E2	.75	<.2		
AUG 29...	<.10	E.10	.030	.032	.025	<10	E2	.35	<.2		

K--Results based on non-ideal colony count.
E--Estimated

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03585268 - WEST FORK SUGAR CREEK AT APPLETON, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	
MAY 01...	1630	58	97	7.9	18.0	--	3	10.6	113	K20	
AUG 30...	1215	9.8	113	7.7	27.0	757	2	6.9	87	--	
DATE		HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	
MAY 01...	40	--	12.5	2.15	1.2	6	.1	1.1	49	40	
AUG 30...	59	3	18.3	3.12	1.2	4	.1	1.6	68	56	
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 01...	3.0	2.9	<.1	4.4	57	54	.08	<.010	.535	<.020	
AUG 30...	1.9	3.0	<.1	5.9	70	70	.10	<.010	.226	<.020	
DATE		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
MAY 01...	E.10	.12	.66	.020	.015	.013	10	12	1.1	<.2	
AUG 30...	E.10	E.10	--	.041	.033	.023	E10	23	1.2	.2	

K--Results based on non-ideal colony count.
E--Estimated

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03605955 - WHITEOAK CREEK NEAR WOOLWORTH, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	
MAY 02...	1600	50	179	8.2	18.0	764	1	11.2	118	61	
AUG 28...	1200	9.7	267	8.0	23.0	762	0	7.1	83	53	
DATE		HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO PERCENT (00932)	SODIUM POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)
MAY 02...	90	1	31.2	2.99	1.8	4	.1	1.0	109	90	
AUG 28...	130	3	46.6	4.25	2.0	3	.1	1.1	160	131	
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 02...	4.9	3.0	<.1	6.2	111	107	.15	<.010	.472	<.020	
AUG 28...	3.3	3.2	<.1	8.5	151	148	.21	<.010	.193	<.020	
DATE		NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	
MAY 02...	E.10	E.10	.008	E.005	<.010	<10	3	.77	<.2		
AUG 28...	<.10	E.10	.013	.012	<.010	<10	6	.45	<.2		

E--Estimated

TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03602598 - BEAVERDAM CREEK NEAR WHITFIELD, TN

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
MAY 02...	1530	76	75	7.7	17.0	751	1	8.7	91	150
AUG 28...	1600	33	89	7.2	21.0	761	1	7.8	88	46
DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)
MAY 02...	30	--	9.75	1.43	1.3	8	.1	.8	37	30
AUG 28...	41	4	13.4	1.75	1.4	7	.1	.8	45	37
DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY 02...	3.5	2.1	<.1	6.9	47	46	.06	<.010	.431	<.020
AUG 28...	2.5	1.8	<.1	8.1	51	52	.07	<.010	.130	<.020
DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
MAY 02...	<.10	.11	.54	.009	.009	<.010	<10	4	.52	<.2
AUG 28...	E.10	<.10	--	.017	.016	.011	<10	11	.35	<.2

E--Estimated

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

CUMBERLAND RIVER BASIN

The following sites are located in or adjacent to Stones River National Battlefield and were sampled as part of a cooperative project between the U.S. Geological Survey and the National Park Service to characterize water quality at Stones River National Battlefield.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03428080 - WEST FORK STONES RIVER AT WEST COLLEGE STREET MURFREESBORO, TN

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	OXYGEN, DIS- SOLVED (MG/L)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	
		(US/CM) (00095)	(00400)	(00010)	(61028)	(00300)	(31673)	(31633)	(00945)	(00940)	(00950)	
AUG 10...	1400	298	8.0	28.5	11	7.8	380	120	13.0	5.9	.1	
DATE		NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
AUG 10...	.470	.030	.500	.030	<.010	4	<1	<1.0	<1.0	1.4	<1	
DATE		COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)
AUG 10...	3	<1	1	<1	<.3	<1	1	<.10	<.20	<.2	<.20	
DATE		CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)
AUG 10...	<.2	.24	<.10	<.10	<.10	<.10	<.10	<.2	.8	<.20	<.10	<.10
DATE		1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	STYRENE TOTAL (UG/L) (77128)	
AUG 10...	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.2	<.2	.30	<.10	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

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CUMBERLAND RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03428123 - KING POND AT MURFREESBORO, TN

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE WATER	TUR- BID- ITY FIELD WATER UNFLTRD	OXYGEN, DIS- SOLVED	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER	E. COLI WATER WHOLE TOTAL UREASE (COL /	SULFATE DIS- SOLVED (MG/L	CHLO- RIDE, DIS- SOLVED (MG/L	FLUO- RIDE, DIS- SOLVED (MG/L	
		(US/CM) (00095)	UNITS) (00400)	(DEG C) (00010)	(NTU) (61028)	(MG/L) (00300)	100 ML) (31673)	100 ML) (31633)	AS SO4) (00945)	AS CL) (00940)	AS F) (00950)	
AUG 10...	1130	384	7.4	24.5	5	5.2	600	30	16.0	4.0	.1	
DATE		NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- GEN, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
AUG 10...	.450	.030	.480	.040	<.010	1	<1	<1.0	<1.0	2.2	<1	
DATE		COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)
AUG 10...	5	<1	3	<1	<.4	<1	1	<.10	<.20	<.2	<.20	
DATE		CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)
AUG 10...	<.2	.14	<.10	<.10	<.10	<.10	<.10	<.2	<.1	<.20	<.10	<.10
DATE		1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	STYRENE TOTAL (UG/L) (77128)	
AUG 10...	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.2	<.2	7.15	<.10	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

CUMBERLAND RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03428125 - WEST FORK STONES RIVER AT THOMPSON LANE AT MURFREESBORO, TN

DATE	TIME	SPECIFIC CONDUCTANCE	PH WATER WHOLE FIELD	TEMPERATURE	TURBIDITY	OXYGEN	STREPTOCOCCI	E. COLI	BROMO-DI-CHLORO-METHANE	CARBON TETRA-CHLORIDE	1,2-DI-CHLORO-ETHANE
		(US/CM) (00095)	(STANDARD WATER UNITS) (00400)	(DEG C) (00010)	(NTU) (61028)	(MG/L) (00300)	FECAL, KF AGAR (COLS. PER 100 ML) (31673)	WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	(UG/L) (32101)	(UG/L) (32102)	(UG/L) (32103)
AUG 09...	1310	352	7.8	29.0	5	8.3	150	45	<.10	<.20	<.2
DATE	BROMO-FORM TOTAL (UG/L) (32104)	CHLORO-DI-BROMO-METHANE TOTAL	CHLORO-FORM TOTAL	TOLUENE TOTAL	BENZENE TOTAL	CHLORO-BENZENE TOTAL	ETHYL-BENZENE TOTAL	METHYL-CHLORIDE TOTAL	TETRA-CHLORO-ETHYLENE TOTAL	TRI-CHLORO-FLUOROMETHANE TOTAL	1,1-DI-CHLORO-ETHANE TOTAL
		(UG/L) (32105)	(UG/L) (32106)	(UG/L) (34010)	(UG/L) (34030)	(UG/L) (34301)	(UG/L) (34371)	(UG/L) (34423)	(UG/L) (34475)	(UG/L) (34488)	(UG/L) (34496)
AUG 09...	<.20	<.2	.37	<.10	<.10	<.10	<.10	<.2	<.1	<.20	<.10
DATE	1,1-DI-CHLORO-ETHYLENE TOTAL	1,1,1-TRI-CHLORO-ETHANE TOTAL	BENZENE O-DI-CHLORO-WATER UNFLTRD REC TOTAL	1,2-DI-CHLORO-PROPANE TOTAL	TRANS-1,2-DI-CHLORO-ETHYLENE TOTAL	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC TOTAL	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC TOTAL	DI-CHLORO-DI-FLUORO-METHANE TOTAL	VINYL-CHLORIDE TOTAL	TRI-CHLORO-ETHYLENE TOTAL	STYRENE TOTAL
	(UG/L) (34501)	(UG/L) (34506)	(UG/L) (34536)	(UG/L) (34541)	(UG/L) (34546)	(UG/L) (34566)	(UG/L) (34571)	(UG/L) (34668)	(UG/L) (39175)	(UG/L) (39180)	(UG/L) (77128)
AUG 09...	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.2	<.2	<.10	<.10

03428126 - MCFADDEN SPRING AT MURFREESBORO, TN

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (MG/L) (00300)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	E. COLI WATER WHOLE TOTAL (COL / 100 ML) (31633)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
		NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
AUG 09...	1405	580	6.6	17.5	1	1.2	23	K6	19.0	6.2	<.1
DATE											
AUG 09...	<.010	.790	<.010	<.010	<1	<1	<1.0	<1.0	3.2	<1	3
DATE											
AUG 09...	<1	1	<1	<.4	<1	1	<.10	<.20	<.2	<.20	<.2

K--Results based on non-ideal colony count.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

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TENNESSEE RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

03428126 - MCPADDEN SPRING AT MURFREESBORO, TN--Continued

DATE	CHLORO- FORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)
AUG 09...	.11	<.10	<.10	<.10	<.10	<.2	<.1	<.20	<.10	<.10
DATE	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	STYRENE TOTAL (UG/L) (77128)
AUG 09...	<.10	<.10	<.10	<.10	<.10	<.10	<.2	<.2	5.33	<.10

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
CUMBERLAND RIVER BASIN									
03408500 - NEW RIVER AT NEW RIVER, TN									
MAR 14...	1000	1050	156	7.5					
03409500 - CLEAR FORK NEAR ROBBINS, TN									
OCT 27...	1250	5.0	72	16.0	JUL 18...	1110	38	62	25.5
MAR 14...	1550	367	54	8.5	AUG 30...	1515	12	75	28.0
MAY 10...	1145	198	48	20.0					
03410210 - SOUTH FORK CUMBERLAND RIVER AT LEATHERWOOD FORD, TN									
OCT 29...	1355	25	228	13.0	AUG 28...	1227	53	131	25.5
JUN 20...	1155	222	154	25.5					
03414500 - EAST FORK OBEY RIVER NEAR JAMESTOWN, TN									
NOV 17...	0905	13	205	7.0	JUL 26...	0800	16	325	21.5
MAR 01...	0745	305	100	9.0	AUG 16...	1015	17	273	23.5
03416000 - WOLF RIVER NEAR BYRDSTOWN, TN									
NOV 17...	1140	8.4	388	7.0	JUL 25...	1447	15	347	26.5
FEB 29...	1320	120	215	11.0	AUG 16...	1315	15	345	27.5
03421000 - COLLINS RIVER NEAR MCMINNVILLE, TN									
OCT 06...	1130	117	328	17.0	APR 13...	0935	2340	116	13.0
NOV 16...	1340	111	322	11.5	JUN 20...	1515	521	224	24.0
JAN 11...	1505	1480	127	10.0	AUG 10...	1245	254	165	27.5
FEB 24...	1340	988	182	12.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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CUMBERLAND RIVER BASIN--Continued

03424730 - SMITH FORK AT TEMPERANCE HALL, TN

OCT 08...	0945	13	275	17.0	MAR 20...	1348	4870	283	12.5
NOV 17...	1540	19	110	8.9	JUN 20...	1635	44	278	28.5
JAN 12...	1015	104	227	7.5	AUG 10...	0920	106	300	25.5
FEB 29...	0930	201	340	10.5					

03426385 - MANSKER CREEK ABOVE GOODLETTSVILLE, TN

NOV 08...	1430	2.4	529	18.0	APR 10...	1200	54	351	13.5
JAN 07...	1200	13	490	5.6	JUN 20...	1300	4.9	401	26.5
FEB 17...	1345	30	427	8.5	AUG 03...	1145	4.7	543	25.0

03426470 - DRY CREEK NEAR EDENWOLD, TN

NOV 08...	1330	.60	555	19.5	JUN 20...	1515	.80	543	28.5
JAN 07...	1030	3.7	581	8.0	JUL 17...	1000	.07	518	23.0
FEB 17...	1215	6.2	537	4.5	AUG 03...	1315	.33	578	26.5
APR 10...	1345	6.6	488	17.5					

03427500 - EAST FORK STONES RIVER NEAR LASCASSAS, TN

NOV 03...	1027	152	567	12.0	JUN 20...	0835	60	341	25.0
MAR 01...	0931	177	389	13.5					

03428500 - WEST FORK STONES RIVER NEAR SMYRNA, TN

NOV 03...	1307	156	506	13.5	JUN 20...	1144	54	439	23.0
MAR 01...	1224	240	454	16.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
CUMBERLAND RIVER BASIN--Continued									
03430147 - STONERS CREEK NEAR HERMITAGE, TN									
NOV					APR				
01...	1150	.69	537	16.0	07...	1010	24	438	15.5
08...	1000	2.1	518	15.0	JUN				
JAN					20...	1020	2.0	478	24.5
12...	1345	18	500	8.5	AUG				
FEB					03...	1510	2.0	488	28.0
23...	1030	22	447	11.0					
03430550 - MILL CREEK NEAR NOLENSVILLE, TN									
OCT					MAR				
06...	1255	.66	670	17.0	20...	1035	576	430	11.5
NOV					29...	0952	38	473	11.0
01...	0825	.65	590	15.0	MAY				
03...	1055	10	460	10.0	25...	0946	2510	188	20.5
FEB					31...	0930	13	400	18.5
17...	1130	68	485	8.0	AUG				
18...	1115	410	201	11.0	07...	1000	.68	636	24.0
03431000 - MILL CREEK NEAR ANTIOCH, TN									
OCT					JUN				
28...	1037	.53	545	12.5	21...	1200	9.0	540	26.0
FEB									
29...	1205	80	468	11.0					
03431060 - MILL CREEK AT THOMPSON LANE, NEAR WOODBINE, TN									
NOV					APR				
03...	1225	44	540	11.7	12...	1415	245	378	15.5
10...	1415	4.2	551	16.0	JUN				
19...	0815	3.0	500	9.5	20...	1445	12	420	26.5
JAN					AUG				
25...	0840	47	645	1.0	07...	1200	3.0	421	27.5
FEB									
18...	0840	809	294	11.0					
23...	1145	116	378	11.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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CUMBERLAND RIVER BASIN--Continued

03431300 - BROWNS CREEK AT STATE FAIRGROUNDS AT NASHVILLE, TN

OCT 01...	0840	1.7	610	16.0	APR 03...	1510	100	188	16.0
NOV 18...	0905	1.6	549	10.0	MAY 25...	1250	229	501	19.0
JAN 13...	1000	13	541	12.0	25...	1455	183	488	18.5
FEB 17...	1015	14	618	10.0	AUG 03...	1027	1.8	601	23.5

034315005 - CUMBERLAND RIVER AT WOODLAND STREET AT NASHVILLE, TN

MAY 17...	1430	8610	239	22.0	SEP 08...	1345	12700	219	25.0
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03431599 - WHITES CREEK NEAR BORDEAUX, TN

OCT 01...	1135	.88	535	16.5	APR 10...	1010	53	388	10.5
NOV 18...	1230	3.1	521	10.5	JUN 26...	0930	4.7	295	25.0
JAN 13...	1130	36	470	10.0	AUG 09...	1230	3.4	440	28.0
FEB 25...	0935	38	440	11.5					

03431700 - RICHLAND CREEK AT CHARLOTTE AVE, AT NASHVILLE, TN

OCT 01...	0950	3.9	456	15.5	APR 20...	0915	17	527	17.0
NOV 18...	1030	2.8	499	10.0	JUN 14...	1135	3.3	495	24.0
JAN 13...	1320	19	531	12.0	AUG 07...	1400	3.9	505	27.0
FEB 28...	1155	18	525	13.5					

03431800 - SYCAMORE CREEK NEAR ASHLAND CITY, TN

NOV 08...	1240	25	335	15.0	JUN 08...	1130	42	304	21.0
FEB 24...	1145	103	257	12.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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CUMBERLAND RIVER BASIN--Continued

03432350 - HARPETH RIVER AT FRANKLIN, TN

OCT					MAY				
04...	1130	1.6	418	17.5	16...	0825	52	390	14.5
21...	0830	3.4	377	12.0	JUN				
NOV					19...	1030	56	398	23.5
12...	0900	7.4	464	13.5	JUL				
JAN					27...	0907	1.7	375	24.0
05...	1500	260	369	9.0	AUG				
MAR					30...	1200	2.2	409	26.5
02...	1100	183	384	12.5	SEP				
08...	1140	137	377	14.0	18...	0930	1.3	432	17.5
15...	1215	147	390	12.5					
29...	1059	320	360	12.5					

034323531 - HARPETH RIVER TRIB AT MACK HATCHER PARKWAY AT FRANKLIN, TN

JAN					JUN				
04...	1035	3.5	475	13.5	19...	1240	.26	359	22.0
FEB					AUG				
18...	1030	3.8	498	13.5	09...	0945	.08	547	25.0
APR									
12...	0935	2.1	500	13.5					

03432387 - SOUTH PRONG SPENCER CREEK NEAR FRANKLIN, TN

JUN					SEP				
06...	1420	1.5	500	18.5	25...	1035	9.1	368	21.5
JUL					25...	1102	5.8	290	21.5
28...	1330	.02	757	22.0	25...	1140	4.5	202	21.0
AUG					25...	1245	3.1	388	21.0
08...	1235	.08	570	27.0					

03432390 - SPENCER CREEK NEAR FRANKLIN, TN

OCT					APR				
04...	1100	1.7	541	18.0	03...	1315	234	193	15.5
NOV					JUN				
12...	1245	2.5	739	14.5	16...	0830	4.2	632	21.5
JAN					AUG				
04...	0945	43	475	13.0	08...	0900	4.1	555	23.5
FEB									
18...	0835	50	470	12.0					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
CUMBERLAND RIVER BASIN--Continued									
03432400 - HARPETH RIVER BELOW FRANKLIN, TN									
OCT					APR				
04...	1445	10	580	19.0	12...	1215	939	311	13.5
NOV					MAY				
12...	1057	20	511	15.0	16...	1005	76	420	17.0
JAN					JUN				
04...	1200	766	373	13.0	19...	1330	61	475	23.5
FEB					JUL				
14...	0910	4640	180	10.5	27...	1145	9.0	607	25.0
14...	1105	4520	198	10.5	AUG				
14...	1340	3990	225	10.5	30...	1330	14	568	27.0
15...	1030	1170	323	9.3	SEP				
MAR					15...	0845	10	575	22.5
01...	1100	263	475	12.5					
08...	1150	138	415	14.5					
03433500 - HARPETH RIVER AT BELLEVUE, TN									
OCT					APR				
06...	1435	13	477	17.5	20...	1115	582	372	16.5
NOV					JUN				
10...	1215	29	476	15.5	14...	0920	75	455	26.0
JAN					19...	1030	22	428	28.5
18...	1310	230	450	8.0					
MAR									
01...	1115	479	393	13.0					
03434500 - HARPETH RIVER NEAR KINGSTON SPRINGS, TN									
OCT					APR				
06...	1210	67	347	15.5	13...	1330	1790	307	13.0
NOV					JUN				
10...	1000	112	307	14.0	08...	1315	257	363	23.5
JAN					AUG				
18...	1015	366	409	7.5	08...	1330	101	320	29.0
MAR									
01...	0830	787	348	12.5					
03435305 - RED RIVER BELOW HIGHWAY 161 NEAR BARREN PLAIN, TN									
NOV					JUN				
09...	0940	38	426	13.5	01...	1055	748	378	19.5
JAN					AUG				
13...	1145	105	408	7.5	15...	1415	104	460	25.0
FEB					SEP				
29...	1400	520	394	12.5	26...	1015	80	468	10.5
APR									
19...	1230	560	372	15.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
CUMBERLAND RIVER BASIN--Continued									
03435970 - MILLERS CREEK AT TURNERSVILLE, TN									
MAR					AUG				
07...	1415	6.2	360	16.0	15...	0930	1.9	428	21.5
20...	0930	42	338	11.0	SEP				
APR					26...	1515	3.2	418	16.5
20...	1100	14	371	16.5					
MAY									
25...	0905	329	202	18.0					
03436100 - RED RIVER AT PORT ROYAL, TN									
OCT					APR				
05...	1750	72	437	17.5	20...	0730	909	360	17.0
NOV					JUN				
09...	1210	90	460	14.5	01...	1340	1530	368	22.0
JAN					AUG				
13...	1415	207	407	8.0	15...	1145	174	425	26.0
FEB					SEP				
29...	1045	984	408	12.5	26...	1325	187	404	19.5
TENNESSEE RIVER BASIN									
03455000 - FRENCH BROAD RIVER NEAR NEWPORT, TN									
NOV					MAR				
02...	1002	765	112	16.0	10...	1210	1330	86	14.5
03461500 - PIGEON RIVER AT NEWPORT, TN									
FEB					MAR				
03...	1026	427	199	2.5	10...	1430	241	186	14.0
03466228 - SINKING CREEK AT APTON, TN									
OCT					MAR				
05...	1240	3.3	454	16.5	09...	0910	5.5	474	12.0
JAN					APR				
19...	1030	8.1	410	7.5	20...	1051	11	468	16.0
03469175 - LITTLE PIGEON RIVER ABOVE SEVIERVILLE, TN									
OCT					AUG				
20...	1035	72	106	14.0	08...	1542	144	61	24.5
JAN									
14...	1346	97	107	24.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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TENNESSEE RIVER BASIN--Continued

03491000 - BIG CREEK NEAR ROGERSVILLE, TN

OCT					APR				
06...	0805	2.8	421	13.0	19...	1415	37	311	17.0
JAN					SEP				
20...	1331	42	296	4.0	06...	1103	6.7	343	20.5
MAR					13...	1145	2.1	372	22.5
08...	1220	15	356	14.5					

03491544 - CROCKETT CREEK BELOW ROGERSVILLE, TN

OCT					MAR				
06...	1135	.55	526	13.5	06...	1245	1.7	505	13.5
JAN					APR				
18...	1315	4.3	410	8.0	19...	1130	2.9	497	14.0

03497300 - LITTLE RIVER ABOVE TOWNSEND, TN

OCT					MAY				
20...	1530	133	20	14.5	31...	1122	263	16	15.5
NOV					JUL				
30...	1200	157	16	5.5	19...	1023	110	20	19.5
JAN					AUG				
31...	1051	211	15	2.5	23...	1255	52	23	20.5
MAR					25...	1027	81	24	20.5
09...	1200	143	16	11.5					
APR									
17...	1530	376	14	14.0					

03498850 - LITTLE RIVER NEAR ALCOA, TN

OCT					SEP				
27...	1240	91	151	11.0	14...	1025	53	179	23.5
AUG									
23...	1005	85	170	22.5					

03528000 - CLINCH RIVER ABOVE TAZEWEEL, TN

OCT					MAY				
08...	1340	137	399	20.0	22...	1157	556	344	23.2
JAN									
20...	1030	1080	295	3.5					

03532000 - POWELL RIVER NEAR ARTHUR, TN

OCT					MAY				
08...	0915	103	415	15.5	19...	1230	277	381	22.0
MAR					AUG				
10...	1050	372	360	13.5	17...	1154	178	436	25.5

03535400 - BEAVER CREEK AT SOLWAY, TN

OCT									
05...	1120	23	425	16.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
TENNESSEE RIVER BASIN--Continued									
03538230 - EAST FORK POPLAR CREEK BELOW NS PIPE AT OAK RIDGE, TN									
MAR 06...	1450	10	313	12.0	SEP 05...	1320	9.8	326	16.0
03538235 - EAST FORK POPLAR CREEK AT BEAR CREEK ROAD AT OAK RIDGE, TN									
OCT 01...	1010	11	345	16.5					
03538270 - BEAR CREEK AT STATE HWY 95 NEAR OAK RIDGE, TN									
MAR 06...	1100	10	248	11.5					
03539600 - DADDYS CREEK NEAR HEBBERTSBURG, TN									
MAR 16...	1230	284	64	10.5	JUL 06...	1058	36	81	24.0
03539778 - CLEAR CREEK AT LILLY BRIDGE NEAR LANCING, TN									
MAY 12...	1204	104	39	21.0	SEP 26...	1150	2.6	92	19.0
03539800 - OBED RIVER NEAR LANCING, TN									
OCT 26...	1150	5.9	115	10.5	JUL 17...	1227	51	86	27.5
03539820 - EMORY RIVER NEAR NEMO, TN									
OCT 06...	1150	5.9	4.0	16.5					
03540500 - EMORY RIVER AT OAKDALE, TN									
NOV 04...	1132	184	186	11.0	AUG 30...	1208	13	119	27.5
MAR 20...	1400	19700	43	10.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
TENNESSEE RIVER BASIN--Continued									
03557148 - CONASAUGA CREEK AT HWY 411 NEAR ETOWAH, TN									
APR 11...	1230	121	310	14.0					
035661285 - NORTH MOUSE CREEK NEAR ROCKY MT HOLLOW NEAR ATHENS, T									
OCT 25...	1420	20	367	11.5	AUG 25...	1430	21	389	21.0
JUL 11...	1140	25	325	22.0					
03568000 - TENNESSEE RIVER AT CHATTANOOGA, TN									
DEC 09...	1215	17500	196	13.0	JUN 22...	1030	16600	184	27.5
FEB 10...	1115	25700	172	8.5	AUG 22...	1100	29100	175	28.0
APR 13...	1200	39500	116	16.0					
03597210 - GARRISON FORK ABOVE L&N RAILROAD AT WARTRACE, TN									
OCT 05...	0919	5.3	292	17.0	APR 06...	1053	326	335	13.0
NOV 10...	1001	6.8	325	14.0	10...	1029	136	285	12.5
JAN 05...	1113	47	366	8.0	JUN 19...	1006	37	267	23.0
FEB 23...	0905	69	414	10.0	AUG 30...	0830	9.5	294	25.5
03597590 - WARTRACE CREEK BELOW COUNTY ROAD AT WARTRACE, TN									
NOV 10...	1152	.17	466	14.5	JUN 19...	1327	2.8	318	24.5
JAN 05...	1252	11	416	8.0	JUL 27...	1220	.02	326	25.0
FEB 23...	1025	29	458	11.0	SEP 15...	0830	.33	290	20.5
APR 06...	0815	108	410	12.5					
03598000 - DUCK RIVER NEAR SHELBYVILLE, TN									
OCT 05...	1335	176	154	19.0	APR 10...	1233	812	179	13.5
07...	1130	176	230	18.0	JUN 19...	1712	743	224	23.0
NOV 08...	1432	202	172	15.0	AUG 14...	1020	194	210	24.5
JAN 07...	1249	349	274	7.5					
FEB 29...	0849	423	272	11.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
TENNESSEE RIVER BASIN--Continued									
03599000 - BIG ROCK CREEK AT LEWISBURG, TN									
NOV					APR				
04...	0855	5.1	424	8.0	10...	1500	43	320	15.0
JAN					JUL				
04...	1212	57	469	12.0	06...	0815	1.3	360	25.5
FEB									
28...	1309	24	378	14.5					
03599500 - DUCK RIVER AT COLUMBIA, TN									
OCT					APR				
08...	0940	142	170	19.0	12...	1055	3200	358	13.5
NOV					JUN				
08...	1058	236	310	13.0	05...	1205	294	245	27.0
JAN					AUG				
05...	1135	2170	302	9.5	10...	0925	368	176	28.5
FEB									
29...	0910	1600	361	13.0					
03602219 - PINEY RIVER AT CEDAR HILL, TN									
OCT					APR				
04...	1050	10	272	16.5	19...	1300	68	210	16.5
NOV					JUN				
10...	0810	12	262	13.5	07...	1200	32	256	17.0
JAN					AUG				
14...	1210	16	251	7.5	09...	0915	11	215	23.0
FEB									
28...	1220	54	248	11.5					
03604000 - BUFFALO RIVER NEAR FLAT WOODS, TN									
OCT					AUG				
04...	1345	184	100	18.0	31...	1100	184	167	25.0
MAY									
31...	1530	277	97	25.0					
03605078 - CYPRESS CREEK AT CAMDEN, TN									
OCT					JUN				
05...	1310	.33	218	16.0	05...	1130	3.6	141	21.0
FEB									
03...	1400	5.2	174	3.0					
OBION RIVER BASIN									
07028930 - TURKEY CREEK AT MEDINA, TN									
APR					APR				
11...	1445	48	89	13.5	11...	1600	49	125	14.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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OBION RIVER BASIN--Continued

07028960 - MIDDLE FORK FORKED DEER RIVER NEAR FAIRVIEW, TN

OCT 20...	1115	85	40	11.5	JUL 05...	1215	65	68	26.5
DEC 08...	1125	117	50	9.0	SEP 13...	1245	65	42	21.5
FEB 01...	1115	119	48	5.0					

HATCHIE RIVER BASIN

07029500 - HATCHIE RIVER AT BOLIVAR, TN

JUL 13...	1415	250	80	30.0	SEP 11...	1130	182	57	18.0
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07030226 - LAUREL CREEK AT LAMBERT, TN

MAR 01...	1107	1.5	68	13.5	APR 06...	1110	3.7	83	14.0
					11...	0815	14	76	12.5

LOOAHATCHIE RIVER BASIN

07030240 - LOOAHATCHIE RIVER NEAR ARLINGTON, TN

OCT 12...	1330	106	42	19.5	MAY 18...	1015	110	58	22.0
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07030270 - CLEAR CREEK NEAR ARLINGTON, TN

MAR 01...	1330	13	38	13.0	MAR 21...	1415	76	66	13.0
					28...	1410	12	116	18.0

07030357 - LOOAHATCHIE RIVER NEAR FRAYSER, TN

MAR 09...	1015	103	167	18.0					
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WOLF RIVER BASIN

07030392 - WOLF RIVER AT LAGRANGE, TN

FEB 14...	1045	223	39	10.5	MAR 15...	1130	168	36	12.5
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07031650 - WOLF RIVER AT GERMANTOWN, TN

OCT 21...	1130	318	42	14.0	MAR 17...	1145	2040	46	14.0
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MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
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WOLF RIVER BASIN--Continued

07031692 - FLETCHER CREEK AT SYCAMORE VIEW ROAD AT MEMPHIS, TN

OCT 21...	1500	1.4	89	15.5	APR 20...	1400	1.4	159	20.5
MAR 16...	1015	658	19	14.0	MAY 08...	1000	1.2	1100	24.0

NONCONNAH RIVER BASIN

07032200 - NONCONNAH CREEK NEAR GERMANTOWN, TN

OCT 21...	1700	.83	252	17.0	JUN 01...	1030	1.3	228	25.5
FEB 08...	1000	.37	330	8.0	AUG 22...	1000	.84	163	27.0
APR 20...	0945	4.3	136	20.5					

07032251 - NONCONNAH CREEK AT RIVERGATE STREET NEAR MEMPHIS, TN

MAR 09...	1215	309	118	20.0	JUN 15...	1215	958	122	24.0
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In 1993, the U.S. Geological Survey (USGS), in cooperation with the Tennessee Department of Transportation (TDOT), began monitoring a degraded wetland area near Millington, Shelby County, Tennessee. The monitoring effort was designed to define land-surface inundation and saturation conditions prior to the implementation of a plan to restore the wetland area to a more natural condition. Restoring and preserving wetlands have become an important initiative in recent years as indicated by the no net loss of wetlands objective of Section 404 of the Clean Water Act (U.S. Congress, 1977). In certain instances, the construction of buildings, roads, and other manmade structures have disrupted natural wetlands and their functions. The Millington site is located along a channelized reach of Big Creek, east of State Route 240, and near the southeastern boundary of the Naval Support Activity Midsouth, Millington (fig. 7). As part of the monitoring effort, 13 wells were augered approximately 2 feet into poorly drained soils, which include the Calloway silt loam, Falaga silt loam, Waverly silt loam, and Henry silt loam.

Additional information on this study area may be obtained from the USGS at 640 Grassmere Park, Suite 100, Nashville, TN 37211 or by telephone (615) 837-4700.

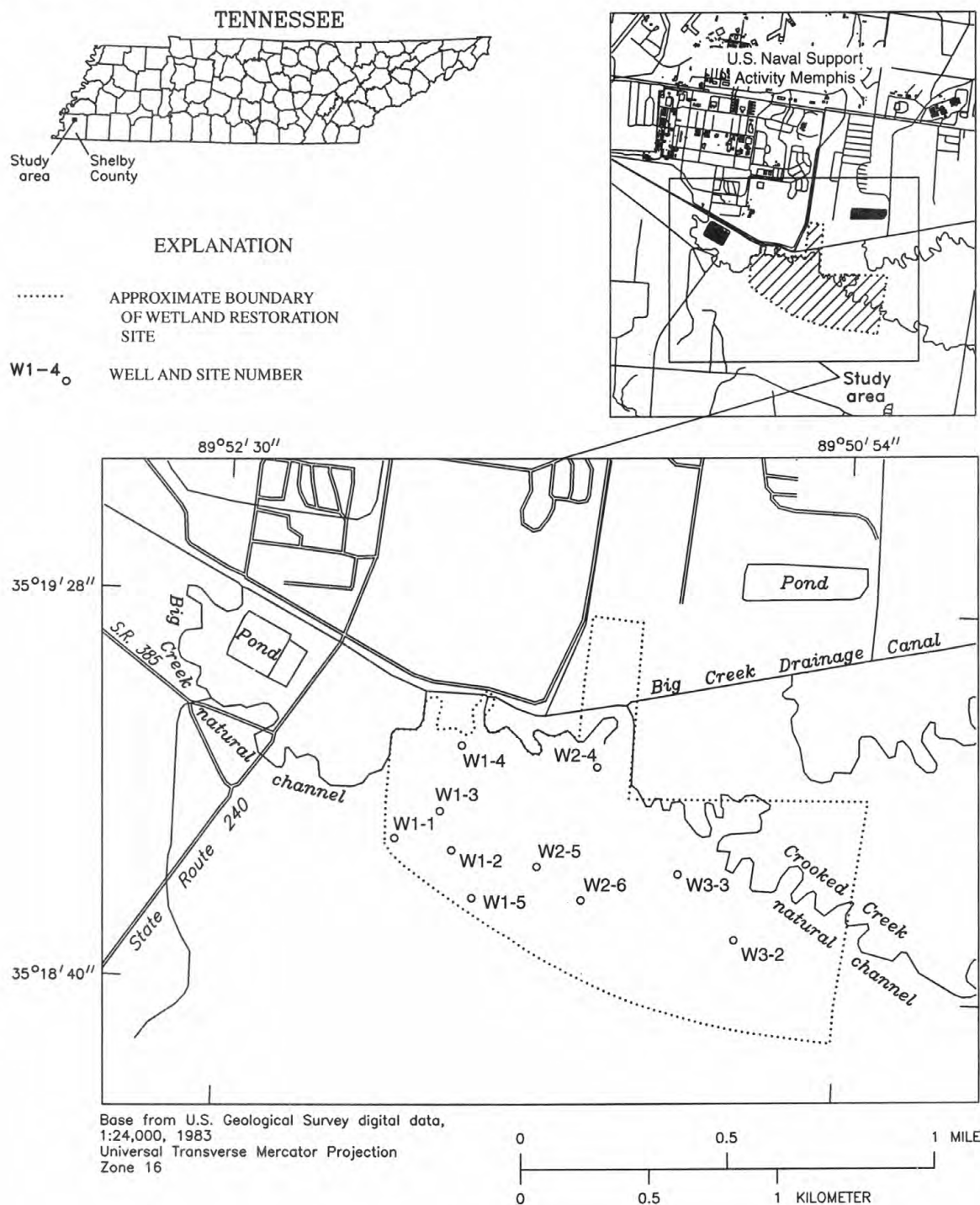


Figure 7. Location of study area and data-collection sites.

GROUND-WATER LEVELS

MILLINGTON WETLAND

351859089520101. Local number, Sh:V-60 (W1-1).

LOCATION.--Lat 35°18'59", long 89°52'01", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder--60-minute punch

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing approximately 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.22 ft below land surface.

PERIOD OF RECORD.--June 1993 to current year.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.22	2.22	2.22	2.22	2.22	2.10	2.14	2.22	2.22	2.22	2.22	2.22
2	2.22	2.22	2.22	2.22	2.22	2.22	.69	2.22	2.22	2.22	2.22	2.22
3	2.22	2.22	2.22	2.22	2.22	2.22	.39	2.22	2.22	2.22	2.22	2.22
4	2.22	2.22	2.22	2.22	2.22	2.22	.49	1.41	2.22	2.22	2.22	2.22
5	2.22	2.22	2.22	2.22	2.22	2.22	.62	.76	2.22	2.22	2.22	2.22
6	2.22	2.22	2.22	2.22	2.22	2.22	.75	.67	2.22	2.22	2.22	2.22
7	2.22	2.22	2.22	2.22	2.22	2.22	.87	.92	2.22	2.22	2.22	2.22
8	2.22	2.22	2.22	2.22	2.22	2.22	1.21	1.26	2.22	2.22	2.22	2.22
9	2.22	2.22	2.22	2.22	2.22	2.22	1.45	1.43	2.22	2.22	2.22	2.22
10	2.22	2.22	2.22	2.22	2.22	2.22	1.60	.66	2.22	2.22	2.22	2.22
11	2.22	2.22	2.22	2.22	2.22	2.22	.86	1.02	2.22	2.22	2.22	2.22
12	2.22	2.22	1.52	2.22	2.22	2.22	.49	1.41	2.22	2.22	2.22	2.22
13	2.22	2.22	1.96	2.22	2.22	2.22	.56	.56	2.22	2.22	2.22	2.22
14	2.22	2.22	2.16	2.22	2.22	2.22	.60	.89	2.22	2.22	2.22	2.22
15	2.22	2.22	2.22	2.22	2.22	2.22	.67	1.24	2.22	2.22	2.22	2.22
16	2.22	2.22	2.22	2.22	2.22	1.13	.76	1.50	2.22	2.22	2.22	2.22
17	2.22	2.22	2.22	2.22	2.22	1.11	.93	1.81	2.22	2.22	2.22	2.22
18	2.22	2.22	2.22	2.22	2.22	1.31	1.15	2.12	2.22	2.22	2.22	2.22
19	2.22	2.22	2.22	2.22	2.22	.43	1.37	2.22	2.22	2.22	2.22	2.22
20	2.22	2.22	2.22	2.22	2.22	.47	1.62	2.22	2.22	2.22	2.22	2.22
21	2.22	2.22	2.22	2.22	2.22	.67	1.91	2.22	2.21	2.22	2.22	2.22
22	2.22	2.22	2.22	2.22	2.22	.79	2.09	2.22	2.15	2.22	2.22	2.22
23	2.22	2.22	2.22	2.22	2.22	.89	2.14	2.22	2.22	2.22	2.22	2.22
24	2.22	2.22	2.22	2.22	2.22	1.04	.63	2.22	2.22	2.22	2.22	2.22
25	2.22	2.22	2.22	2.22	2.22	1.24	.81	2.22	2.22	2.22	2.22	2.22
26	2.22	2.22	2.22	2.22	1.66	1.35	1.12	2.22	2.22	2.22	2.22	2.22
27	2.22	2.22	2.22	2.22	.83	1.44	1.39	2.22	2.22	2.22	2.22	2.22
28	2.22	2.22	2.22	2.22	1.61	1.69	1.70	2.22	2.22	2.22	2.22	2.22
29	2.22	2.22	2.22	2.22	1.89	1.94	1.97	2.22	2.22	2.22	2.22	2.22
30	2.22	2.22	2.22	2.22	---	2.07	2.19	2.22	2.22	2.22	2.22	2.22
31	2.22	---	2.22	2.22	---	2.18	---	2.22	---	2.22	2.22	---
TOTAL	68.82	66.60	67.80	68.82	61.49	52.93	35.17	53.18	66.52	68.82	68.82	66.60
MEAN	2.22	2.22	2.19	2.22	2.12	1.71	1.17	1.72	2.22	2.22	2.22	2.22
MAX	2.22	2.22	2.22	2.22	2.22	2.22	2.19	2.22	2.22	2.22	2.22	2.22
MIN	2.22	2.22	1.52	2.22	.83	.43	.39	.56	2.15	2.22	2.22	2.22

WTR YR 2000 HIGHEST 0.21 MAY 13, 2000

LOWEST 2.22 MANY DAYS

GROUND-WATER LEVELS

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MILLINGTON WETLAND--Continued

351859089515501. Local number, Sh:V-61 (W1-2).

LOCATION.--Lat 35°18'59", long 89°51'55", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.24 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.24	2.24	2.24	2.24	2.24	.11	1.77	1.66	2.24	2.24	2.24	2.24
2	2.24	2.24	2.24	2.24	2.24	.18	1.60	1.95	2.24	2.24	2.24	2.24
3	2.24	2.24	2.24	2.24	2.24	.19	.34	2.00	2.24	2.24	2.24	2.24
4	2.24	2.24	2.24	2.24	2.24	.29	-.03	1.17	2.24	2.24	2.24	2.24
5	2.24	2.24	2.24	2.24	2.24	.45	.26	.50	2.24	2.24	2.24	2.24
6	2.24	2.24	2.24	2.24	2.24	.67	.53	.15	2.24	2.24	2.24	2.24
7	2.24	2.24	2.24	2.24	2.24	.88	.71	.32	2.24	2.24	2.24	2.24
8	2.24	2.24	2.24	2.24	2.24	1.03	.87	.82	2.24	2.24	2.24	2.24
9	2.24	2.24	2.24	2.24	2.24	1.17	1.02	1.30	2.24	2.24	2.24	2.24
10	2.24	2.24	2.24	2.24	2.24	1.36	1.14	1.41	2.24	2.24	2.24	2.24
11	2.24	2.24	2.24	2.24	2.24	1.53	.30	1.32	2.24	2.24	2.24	2.24
12	2.24	2.24	.67	2.24	2.24	1.76	-.18	1.45	2.24	2.24	2.24	2.24
13	2.24	2.24	1.05	2.24	2.24	1.90	-.06	.35	2.24	2.24	2.24	2.24
14	2.24	2.24	2.19	2.24	2.24	1.99	.03	-.15	2.24	2.24	2.24	2.24
15	2.24	2.24	2.24	2.24	2.24	2.05	.18	-.06	.70	2.24	2.24	2.24
16	2.24	2.24	2.24	2.24	2.24	.80	.35	.13	-.06	2.24	2.24	2.24
17	2.24	2.24	2.24	2.24	2.24	.85	.50	.36	.10	2.24	2.24	2.24
18	2.24	2.24	2.24	2.24	2.24	1.21	.69	1.01	.27	2.24	2.24	2.24
19	2.24	2.24	2.24	2.24	2.24	.35	.85	1.61	-.07	2.24	2.24	2.24
20	2.24	2.23	2.24	2.24	2.24	.25	.98	1.84	-.03	2.24	2.24	2.24
21	2.24	2.23	2.24	2.24	2.24	.70	1.08	2.06	.00	2.24	2.24	2.24
22	2.24	2.24	2.24	2.24	2.24	1.01	1.16	2.22	-.07	2.24	2.24	2.24
23	2.24	2.24	2.24	2.24	2.24	1.23	1.19	2.24	.02	2.24	2.24	2.24
24	2.24	2.24	2.24	2.24	2.24	1.41	.29	2.24	.28	2.24	2.24	2.24
25	2.24	2.24	2.24	2.24	2.24	1.57	.05	2.24	1.31	2.24	2.24	2.24
26	2.24	2.24	2.24	2.24	1.66	1.69	.09	2.24	2.10	2.24	2.24	2.24
27	2.24	2.24	2.24	2.24	-.11	1.79	.20	2.24	2.24	2.24	2.24	2.24
28	2.24	2.24	2.24	2.24	.00	1.85	.48	2.24	2.24	2.24	2.24	2.24
29	2.24	2.24	2.24	2.24	.06	1.83	.89	2.24	2.24	2.24	2.24	2.24
30	2.24	2.24	2.24	2.24	---	1.82	1.30	2.24	2.24	2.24	2.24	2.24
31	2.24	---	2.24	2.24	---	1.80	---	2.24	---	2.24	2.24	---
TOTAL	69.44	67.18	66.63	69.44	57.61	35.72	18.58	43.58	44.87	69.44	69.44	67.20
MEAN	2.24	2.24	2.15	2.24	1.99	1.15	.62	1.41	1.50	2.24	2.24	2.24
MAX	2.24	2.24	2.24	2.24	2.24	2.05	1.77	2.24	2.24	2.24	2.24	2.24
MIN	2.24	2.23	.67	2.24	-.11	.11	-.18	-.15	-.07	2.24	2.24	2.24

WTR YR 2000 HIGHEST -.41 DEC 12, 1999

LOWEST 2.24 MANY DAYS

GROUND-WATER LEVELS

MILLINGTON WETLAND--Continued

351906089515601. Local number, Sh:V-62 (W1-3).

LOCATION.--Lat 35°19'06", long 89°51'56", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.10 ft below land surface.

PERIOD OF RECORD.--October 1993 to current year.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.10	2.10	2.10	2.10	2.07	2.00	2.08	1.85	2.10	2.10	2.10	2.10
2	2.10	2.10	2.10	2.10	2.09	2.10	1.85	1.94	2.10	2.10	2.10	2.10
3	2.10	2.10	2.10	2.10	2.10	2.10	.60	1.97	2.10	2.10	2.10	2.10
4	2.10	2.10	2.10	2.10	2.10	2.10	.24	1.87	2.10	2.10	2.10	2.10
5	2.10	2.10	2.10	2.10	2.10	2.10	.56	1.44	2.10	2.10	2.10	2.10
6	2.10	2.10	2.10	2.10	2.10	2.10	.84	.87	2.10	2.10	2.10	2.10
7	2.10	2.10	2.10	2.10	2.10	2.10	1.04	.93	2.10	2.10	2.10	2.10
8	2.10	2.10	2.10	2.10	2.10	2.10	1.21	1.22	2.10	2.10	2.10	2.10
9	2.10	2.10	2.10	2.10	2.10	2.10	1.37	1.44	2.10	2.10	2.10	2.10
10	2.10	2.10	2.10	2.10	2.10	2.10	1.51	1.01	2.10	2.10	2.10	2.10
11	2.10	2.10	2.10	2.10	2.10	2.10	.69	1.13	2.10	2.10	2.10	2.10
12	2.10	2.10	2.10	2.10	2.10	2.10	.22	1.38	2.10	2.10	2.10	2.10
13	2.10	2.10	2.10	2.10	2.10	2.10	.37	.31	2.10	2.10	2.10	2.10
14	2.10	2.10	2.10	2.10	2.10	2.10	.47	.75	2.10	2.10	2.10	2.10
15	2.10	2.10	2.10	2.10	2.10	2.10	.63	1.23	2.08	2.10	2.10	2.10
16	2.10	2.10	2.10	2.10	2.10	.86	.82	1.48	2.10	2.10	2.10	2.10
17	2.10	2.10	2.10	2.10	2.06	.93	.99	1.65	2.10	2.10	2.10	2.10
18	2.10	2.10	2.10	2.10	1.90	1.29	1.20	1.80	2.10	2.10	2.10	2.10
19	2.10	2.09	2.10	2.10	1.90	.45	1.37	1.93	2.10	2.10	2.10	2.10
20	2.10	2.02	2.10	2.10	1.92	.37	1.52	2.05	2.10	2.10	2.10	2.10
21	2.10	2.09	2.10	2.10	1.94	.84	1.64	2.10	2.10	2.10	2.10	2.10
22	2.10	2.10	2.10	1.98	1.97	1.17	1.73	2.10	2.10	2.10	2.10	2.10
23	2.10	2.10	2.10	1.90	1.99	1.40	1.77	2.10	2.10	2.10	2.10	2.10
24	2.10	2.10	2.10	1.94	1.98	1.60	.89	2.10	2.10	2.10	2.10	2.10
25	2.10	2.10	2.10	1.98	2.04	1.77	.63	2.10	2.10	2.10	2.10	2.10
26	2.10	2.10	2.10	2.02	1.21	1.91	.93	2.10	2.10	2.10	2.10	2.10
27	2.10	2.10	2.10	2.05	.64	2.03	1.20	2.10	2.10	2.10	2.10	2.10
28	2.10	2.10	2.10	2.08	1.31	2.10	1.42	2.10	2.10	2.10	2.10	2.10
29	2.10	2.10	2.10	2.08	1.72	2.10	1.62	2.10	2.10	2.10	2.10	2.10
30	2.10	2.10	2.10	2.04	---	2.10	1.76	2.10	2.10	2.10	2.10	2.10
31	2.10	---	2.10	2.05	---	2.10	---	2.10	---	2.10	2.10	---
TOTAL	65.10	62.90	65.10	64.22	56.14	54.42	33.17	51.35	62.98	65.10	65.10	63.00
MEAN	2.10	2.10	2.10	2.07	1.94	1.76	1.11	1.66	2.10	2.10	2.10	2.10
MAX	2.10	2.10	2.10	2.10	2.10	2.10	2.08	2.10	2.10	2.10	2.10	2.10
MIN	2.10	2.02	2.10	1.90	.64	.37	.22	.31	2.08	2.10	2.10	2.10

WTR YR 2000

HIGHEST 0.01 APR 3, 2000

LOWEST 2.10 MANY DAYS

GROUND-WATER LEVELS

315

MILLINGTON WETLAND--Continued

351912089515301. Local number, Sh:V-63 (W1-4).

LOCATION.--Lat 35°19'12", long 89°51'53", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
 Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.27 below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

 DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.27	2.27	2.27	2.27	2.27	2.00	1.96	2.10	2.27	2.27	2.27	2.27
2	2.27	2.27	2.27	2.27	2.27	2.15	1.79	2.13	2.27	2.27	2.27	2.27
3	2.27	2.27	2.27	2.27	2.27	2.24	.45	2.16	2.27	2.27	2.27	2.27
4	2.27	2.27	2.27	2.27	2.27	2.27	.27	2.12	2.27	2.27	2.27	2.27
5	2.27	2.27	2.26	2.27	2.27	2.27	.70	1.98	2.27	2.27	2.27	2.27
6	2.27	2.27	2.27	2.27	2.27	2.27	1.08	1.83	2.27	2.27	2.27	2.27
7	2.27	2.27	2.27	2.27	2.27	2.27	1.32	1.80	2.27	2.27	2.27	2.27
8	2.27	2.27	2.27	2.27	2.27	2.27	1.51	1.85	2.27	2.27	2.27	2.27
9	2.27	2.27	2.27	2.27	2.27	2.27	1.65	1.91	2.27	2.27	2.27	2.27
10	2.27	2.27	2.24	2.27	2.27	2.27	1.75	1.85	2.27	2.27	2.27	2.27
11	2.27	2.27	2.27	2.27	2.27	2.27	.79	1.87	2.27	2.27	2.27	2.27
12	2.27	2.27	1.17	2.27	2.27	2.27	.30	1.93	2.27	2.27	2.27	2.27
13	2.27	2.27	1.25	2.27	2.27	2.27	.66	.43	2.27	2.27	2.27	2.27
14	2.27	2.27	1.75	2.27	2.27	2.27	.95	.83	2.27	2.27	2.27	2.27
15	2.27	2.27	2.11	2.27	2.27	2.27	1.15	1.36	1.70	2.27	2.27	2.27
16	2.27	2.27	2.26	2.27	2.27	1.17	1.33	1.64	1.93	2.27	2.27	2.27
17	2.27	2.27	2.27	2.27	2.27	1.09	1.47	1.80	2.15	2.27	2.27	2.27
18	2.27	2.27	2.27	2.27	2.27	1.29	1.60	1.92	2.23	2.27	2.27	2.27
19	2.27	2.22	2.27	2.27	2.27	.25	1.71	2.04	2.23	2.27	2.27	2.27
20	2.27	2.19	2.27	2.27	2.27	.24	1.79	2.11	2.27	2.27	2.27	2.27
21	2.27	2.27	2.27	2.27	2.27	.70	1.88	2.16	2.27	2.27	2.27	2.27
22	2.27	2.27	2.27	2.26	2.27	1.03	1.95	2.22	2.27	2.27	2.27	2.27
23	2.27	2.27	2.27	2.27	2.27	1.22	2.01	2.27	2.27	2.27	2.27	2.27
24	2.27	2.27	2.27	2.27	2.27	1.34	1.88	2.27	2.27	2.27	2.27	2.27
25	2.27	2.27	2.27	2.27	2.27	1.45	1.82	2.27	2.27	2.27	2.27	2.27
26	2.27	2.27	2.27	2.27	1.31	1.54	1.83	2.27	2.27	2.27	2.27	2.27
27	2.27	2.27	2.27	2.27	1.00	1.62	1.88	2.27	2.27	2.27	2.27	2.27
28	2.27	2.27	2.27	2.27	1.53	1.69	1.93	2.27	2.27	2.27	2.27	2.27
29	2.27	2.27	2.27	2.27	1.80	1.77	1.99	2.27	2.27	2.27	2.27	2.27
30	2.27	2.27	2.27	2.27	---	1.84	2.05	2.27	2.27	2.27	2.27	2.27
31	2.27	---	2.27	2.27	---	1.91	---	2.27	---	2.27	2.27	---
TOTAL	70.37	67.97	67.52	70.36	62.39	53.78	43.45	60.47	66.99	70.37	70.37	68.10
MEAN	2.27	2.27	2.18	2.27	2.15	1.73	1.45	1.95	2.23	2.27	2.27	2.27
MAX	2.27	2.27	2.27	2.27	2.27	2.27	2.05	2.27	2.27	2.27	2.27	2.27
MIN	2.27	2.19	1.17	2.26	1.00	.24	.27	.43	1.70	2.27	2.27	2.27

WTR YR 2000

HIGHEST -.04 MAR 19,2000

LOWEST 2.27 MANY DAYS

GROUND-WATER LEVELS

MILLINGTON WETLAND--Continued

351853089515101. Local number, Sh:V-64 (W1-5).

LOCATION.--Lat 35°18'53", long 89°51'51", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
 Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.25 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

 DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.25	2.25	2.25	2.25	2.25	.95	1.08	2.25	2.25	2.20	2.25	2.25
2	2.25	2.25	2.25	2.25	2.25	1.12	.31	2.25	2.25	2.25	2.25	2.25
3	2.25	2.25	2.25	2.25	2.25	1.14	.24	2.17	2.25	2.25	2.25	2.25
4	2.25	2.25	2.25	2.25	2.25	1.29	.33	1.06	2.25	2.25	2.25	2.25
5	2.25	2.25	2.25	2.25	2.25	1.46	.39	.67	2.25	2.25	2.25	2.25
6	2.25	2.25	2.25	2.25	2.25	1.63	.43	.71	2.25	2.25	2.25	2.25
7	2.25	2.25	2.25	2.25	2.25	1.77	.47	.78	2.25	2.25	2.25	2.25
8	2.25	2.25	2.25	2.25	2.25	1.85	.56	1.00	2.25	2.25	2.25	2.25
9	2.25	2.25	2.25	2.25	2.25	1.97	.69	1.42	2.25	2.25	2.25	2.25
10	2.25	2.25	2.25	2.25	2.25	2.13	.83	.67	2.25	2.25	2.25	2.25
11	2.25	2.25	2.25	2.25	2.25	2.21	.51	.79	2.25	2.25	2.25	2.25
12	2.25	2.25	1.44	2.25	2.25	2.25	.42	1.11	2.25	2.25	2.25	2.25
13	2.25	2.25	.64	2.25	2.25	2.25	.47	.74	2.25	2.25	2.25	2.25
14	2.25	2.25	.70	2.25	2.25	2.25	.49	.76	2.25	2.25	2.25	2.25
15	2.25	2.25	.89	2.25	2.25	2.25	.52	.99	.64	2.25	2.25	2.25
16	2.25	2.25	1.34	2.25	2.25	.23	.55	1.40	.90	2.25	2.25	2.25
17	2.25	2.25	1.87	2.25	2.25	.17	.61	1.96	1.56	2.25	2.25	2.25
18	2.25	2.25	2.23	2.25	2.25	.19	.72	2.25	1.57	2.25	2.25	2.25
19	2.25	2.10	2.25	2.25	2.25	.04	.90	2.25	.70	2.25	2.25	2.25
20	2.25	1.99	2.25	2.25	2.25	.12	1.18	2.25	.86	2.25	2.25	2.25
21	2.25	2.25	2.25	2.25	2.25	.20	1.58	2.25	.88	2.25	2.25	2.25
22	2.25	2.25	2.25	2.25	2.25	.24	1.92	2.25	.75	2.25	2.25	2.25
23	2.25	2.25	2.25	2.25	2.25	.27	2.06	2.25	1.08	2.25	2.25	2.25
24	2.25	2.25	2.25	2.25	2.25	.31	.09	2.25	1.82	2.25	2.25	2.25
25	2.25	2.25	2.25	2.25	2.25	.36	.13	2.25	2.25	2.25	2.25	2.25
26	2.25	2.25	2.25	2.25	1.55	.42	.24	2.25	2.25	2.25	2.25	2.25
27	2.25	2.25	2.25	2.25	.70	.48	.53	1.80	2.25	2.25	2.25	2.25
28	2.25	2.25	2.25	2.25	.78	.62	.99	.79	2.15	2.25	2.25	2.25
29	2.25	2.25	2.25	2.25	.84	.83	1.56	1.68	.75	2.25	2.25	2.25
30	2.25	2.25	2.25	2.25	---	.84	2.13	2.25	1.41	2.25	2.25	2.25
31	2.25	---	2.25	2.25	---	.98	---	2.25	---	2.25	2.25	---
TOTAL	69.75	67.09	63.11	69.75	60.12	32.82	22.93	49.75	53.32	69.70	69.75	67.50
MEAN	2.25	2.24	2.04	2.25	2.07	1.06	.76	1.60	1.78	2.25	2.25	2.25
MAX	2.25	2.25	2.25	2.25	2.25	2.25	2.13	2.25	2.25	2.25	2.25	2.25
MIN	2.25	1.99	.64	2.25	.70	.04	.09	.67	.64	2.20	2.25	2.25

WTR YR 2000

HIGHEST -.04 MAR 19,2000

LOWEST 2.25 MANY DAYS

317

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351848089511001. Local number, Sh:V-70 (W3-2).

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

REMARKS.--No missing record. Bottom of well, 2.24 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.24	2.24	2.24	1.40	1.38	.94	1.43	1.62	1.69	1.48	2.24	2.24
2	2.24	2.24	2.24	1.36	1.40	.99	1.23	1.63	1.84	1.54	2.24	2.24
3	2.24	2.24	2.24	1.28	1.40	1.02	1.04	1.29	2.03	1.60	2.24	2.24
4	2.24	2.24	2.24	1.28	1.41	1.05	.96	.97	2.09	1.66	2.24	2.24
5	2.24	2.24	2.24	1.42	1.44	1.08	1.00	.89	1.92	1.71	2.24	2.24
6	2.24	2.24	2.24	1.46	1.46	1.11	1.04	1.00	2.13	1.75	2.24	2.24
7	2.24	2.24	2.24	1.52	1.46	1.15	1.09	1.15	2.24	1.80	2.24	2.24
8	2.24	2.24	2.24	1.46	1.49	1.21	1.14	1.29	2.24	1.87	2.24	2.24
9	2.24	2.24	2.24	1.33	1.51	1.27	1.18	1.33	2.24	1.95	2.24	2.24
10	2.24	2.24	2.24	1.36	1.52	1.34	1.23	.97	2.24	2.09	2.24	2.24
11	2.24	2.23	2.24	1.55	1.53	1.38	1.09	1.17	2.24	2.24	2.24	2.24
12	2.24	2.24	1.08	1.62	1.53	1.42	.92	1.30	2.24	2.24	2.24	2.24
13	2.24	2.24	.43	1.60	1.53	1.46	.95	.56	2.24	2.24	2.24	2.24
14	2.24	2.24	.59	1.71	1.50	1.48	.98	.90	2.24	2.24	2.24	2.24
15	2.24	2.24	.85	1.70	1.53	1.49	1.01	1.00	1.50	2.24	2.24	2.24
16	2.24	2.24	.99	1.70	1.57	1.18	1.05	1.06	1.22	2.24	2.24	2.24
17	2.24	2.24	1.04	1.57	1.52	1.14	1.08	1.13	1.27	2.24	2.24	2.24
18	2.24	2.24	1.09	1.46	1.38	1.17	1.11	1.23	1.28	2.24	2.24	2.24
19	2.24	2.18	1.11	1.50	1.40	1.05	1.14	1.26	1.22	2.24	2.24	2.24
20	2.24	2.08	1.17	1.51	1.42	.93	1.19	1.23	1.25	2.24	2.24	2.24
21	2.24	2.24	1.22	1.55	1.44	.97	1.25	1.24	1.26	2.24	2.24	2.24
22	2.24	2.24	1.27	1.39	1.46	1.01	1.29	1.31	1.25	2.24	2.24	2.24
23	2.24	2.24	1.29	1.31	1.47	1.05	1.31	1.37	1.29	2.24	2.24	2.24
24	2.24	2.24	1.29	1.33	1.42	1.10	1.17	1.47	1.33	2.24	2.24	2.24
25	2.24	2.24	1.35	1.36	1.44	1.14	1.18	1.50	1.37	2.24	2.24	2.24
26	2.24	2.24	1.30	1.38	1.23	1.19	1.22	1.47	1.41	2.24	2.24	2.24
27	2.24	2.24	1.29	1.41	.75	1.24	1.25	1.08	1.39	2.24	2.24	2.24
28	2.24	2.24	1.31	1.41	.82	1.31	1.35	1.02	1.44	2.24	2.24	2.24
29	2.24	2.24	1.35	1.37	.89	1.37	1.47	1.31	1.39	2.24	2.24	2.24
30	2.24	2.24	1.35	1.35	---	1.39	1.61	1.44	1.42	2.24	2.24	2.24
31	2.24	---	1.39	1.37	---	1.41	---	1.57	---	2.24	2.24	---
TOTAL	69.44	66.97	47.40	45.02	40.30	37.04	34.96	37.76	50.91	64.49	69.44	67.20
MEAN	2.24	2.23	1.53	1.45	1.39	1.19	1.17	1.22	1.70	2.08	2.24	2.24
MAX	2.24	2.24	2.24	1.71	1.57	1.49	1.61	1.63	2.24	2.24	2.24	2.24
MIN	2.24	2.08										

WTR YR 2000 HIGHEST -.03 MAY 13, 2000 LOWEST 2.24 MANY DAYS

GROUND-WATER LEVELS

319

MILLINGTON WETLAND--Continued

351856089511901. Local number, Sh:V-71 (W3-3).

LOCATION.--Lat 35°18'56", long 89°51'19", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.37 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.37	2.37	2.37	-.33	-.31	-.84	-.44	-.54	-.67	-.69	2.37	2.37
2	2.37	2.37	2.37	-.31	-.29	-.80	-.65	-.52	-.62	-.63	2.37	2.37
3	2.37	2.37	2.37	-.32	-.29	-.77	-.84	-.54	-.57	-.57	2.37	2.37
4	2.37	2.37	2.37	-.32	-.29	-.75	-.92	-.60	-.55	-.51	2.37	2.37
5	2.37	2.37	2.07	-.29	-.26	-.72	-.88	-.70	-.54	-.46	2.37	2.37
6	2.37	2.37	2.14	-.27	-.24	-.69	-.84	-.79	-.50	-.42	2.37	2.37
7	2.37	2.37	2.26	-.25	-.24	-.65	-.80	-.77	-.46	-.37	2.37	2.37
8	2.37	2.37	2.35	-.24	-.22	-.60	-.75	-.74	-.42	-.30	---	2.37
9	2.37	2.37	2.31	-.24	-.20	-.54	-.71	-.69	-.22	-.22	2.37	2.37
10	2.37	2.37	2.03	-.22	-.19	-.48	-.66	-.81	-.31	-.08	2.37	2.37
11	2.37	2.37	2.16	-.19	-.19	-.44	-.81	-.81	-.23	.18	2.37	2.37
12	2.37	2.37	-.15	-.17	-.19	-.40	-.98	-.79	-.09	.56	2.37	2.37
13	2.37	2.37	-1.32	-.21	-.20	-.37	-.95	-1.04	.09	1.14	2.37	2.37
14	2.37	2.37	-1.19	-.17	-.23	-.35	-.92	-1.12	.42	1.69	2.37	2.37
15	2.37	2.37	-1.07	-.15	-.20	-.34	-.89	-1.05	-.65	2.17	2.37	2.37
16	2.37	2.37	-.99	-.15	-.17	-.66	-.86	-1.01	-.95	2.36	2.37	2.37
17	2.37	2.37	-.92	-.17	-.22	-.70	-.83	-.97	-.90	2.37	2.37	2.37
18	2.37	2.37	-.88	-.17	-.36	-.67	-.80	-.93	-.89	2.37	2.37	2.37
19	2.37	2.35	-.84	-.16	-.35	-.79	-.77	-.90	-.95	2.37	2.37	2.37
20	2.37	2.02	-.81	-.13	-.33	-.92	-.72	-.88	-.92	2.37	2.37	2.37
21	2.37	2.23	-.78	-.10	-.32	-.88	-.67	-.86	-.91	2.37	2.37	2.37
22	2.37	2.36	-.75	-.26	-.30	-.84	-.63	-.84	-.92	2.37	2.37	2.37
23	2.37	2.37	-.73	-.34	-.29	-.80	-.61	-.81	-.88	2.37	2.37	2.37
24	2.37	2.37	-.71	-.33	-.34	-.76	-.75	-.78	-.84	2.37	2.37	2.37
25	2.37	2.37	-.66	-.30	-.33	-.72	-.75	-.75	-.80	2.37	2.37	2.37
26	2.37	2.37	-.62	-.28	-.54	-.67	-.71	-.72	-.76	2.37	2.37	2.37
27	2.37	2.37	-.56	-.26	-1.03	-.62	-.67	-.79	-.78	2.37	2.37	2.37
28	2.37	2.37	-.50	-.26	-.96	-.55	-.64	-.84	-.73	2.37	2.37	2.37
29	2.37	2.37	-.45	-.30	-.89	-.50	-.60	-.80	-.78	2.37	2.37	2.37
30	2.37	2.37	-.40	-.33	---	-.48	-.57	-.77	-.75	2.37	2.37	2.37
31	2.37	---	-.36	-.31	---	-.46	---	-.72	---	2.37	2.37	---
TOTAL	73.47	70.58	10.11	-7.53	-9.97	-19.76	-22.62	-24.88	-18.23	39.40	71.10	71.10
MEAN	2.37	2.35	.33	-.24	-.34	-.64	-.75	-.80	-.61	1.27	2.37	2.37
MAX	2.37	2.37	2.37	-.10	-.17	-.34	-.44	-.52	.42	2.37	2.37	2.37
MIN	2.37	2.02	-1.32	-.34	-1.03	-.92	-.98	-1.12	-.95	-.69	2.37	2.37

WTR YR 2000 HIGHEST -1.45 DEC 12, 1999

LOWEST 2.37 MANY DAYS

GROUND-WATER LEVELS

MILLINGTON WETLAND--Continued

351855089515301. Local number, Sh:V-74 (W2-5).

LOCATION.--Lat 35°18'55", long 89°51'53", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
 Owner: Tennessee Department of Transportation (TDOT) and USGS.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--No missing record. Bottom of well, 2.12 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
2	2.12	2.12	2.12	2.12	2.12	2.12	2.06	2.12	2.12	2.12	2.12	2.12
3	2.12	2.12	2.12	2.12	2.12	2.12	1.07	2.12	2.12	2.12	2.12	2.12
4	2.12	2.12	2.12	2.12	2.12	2.12	1.12	2.12	2.12	2.12	2.12	2.12
5	2.12	2.12	2.10	2.12	2.12	2.12	1.83	2.12	2.12	2.12	2.12	2.12
6	2.12	2.12	2.12	2.12	2.12	2.12	2.10	2.12	2.12	2.12	2.12	2.12
7	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
8	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
9	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
10	2.12	2.12	2.06	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
11	2.12	2.12	2.12	2.12	2.12	2.12	1.43	2.12	2.12	2.12	2.12	2.12
12	2.12	2.12	1.53	2.12	2.12	2.12	1.11	2.12	2.12	2.12	2.12	2.12
13	2.12	2.12	1.88	2.12	2.12	2.12	1.50	1.29	2.12	2.12	2.12	2.12
14	2.12	2.12	2.10	2.12	2.12	2.12	1.69	1.61	2.12	2.12	2.12	2.12
15	2.12	2.12	2.12	2.12	2.12	2.12	1.81	2.02	2.12	2.12	2.12	2.12
16	2.12	2.12	2.12	2.12	2.12	1.55	1.95	2.12	2.12	2.12	2.12	2.12
17	2.12	2.12	2.12	2.12	2.12	2.08	2.08	2.12	2.12	2.12	2.12	2.12
18	2.12	2.12	2.12	2.12	1.94	2.12	2.12	2.12	2.12	2.12	2.12	2.12
19	2.12	2.12	2.12	2.12	2.07	1.50	2.12	2.12	2.12	2.12	2.12	2.12
20	2.12	2.12	2.12	2.12	2.12	1.40	2.12	2.12	2.12	2.12	2.12	2.12
21	2.12	2.12	2.12	2.12	2.12	1.98	2.12	2.12	2.12	2.12	2.12	2.12
22	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
23	2.12	2.12	2.12	1.93	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
24	2.12	2.12	2.12	2.03	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
25	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
26	2.12	2.12	2.12	2.12	1.63	2.12	2.12	2.12	2.12	2.12	2.12	2.12
27	2.12	2.12	2.12	2.12	1.75	2.12	2.12	2.12	2.12	2.12	2.12	2.12
28	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
29	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
30	2.12	2.12	2.12	2.12	---	2.12	2.12	2.12	2.12	2.12	2.12	2.12
31	2.12	---	2.12	2.12	---	2.12	---	2.12	---	2.12	2.12	---
TOTAL	65.72	63.60	64.79	65.44	60.39	63.63	57.91	64.28	63.60	65.72	65.72	63.60
MEAN	2.12	2.12	2.09	2.11	2.08	2.05	1.93	2.07	2.12	2.12	2.12	2.12
MAX	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
MIN	2.12	2.12	1.53	1.93	1.63	1.40	1.07	1.29	2.12	2.12	2.12	2.12

WTR YR 2000

HIGHEST .17 FEB 26, 2000

LOWEST 2.12 MANY DAYS

321

351852089512501. Local number, Sh:V-75 (W2-6).

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

REMARKS.--No missing record. Bottom of well, 2.10 ft below land surface. Negative values indicate water levels above land surface.

PERIOD OF RECORD.--October 1993 to current year.

[illegible]

GROUND-WATER LEVELS

MILLINGTON WETLAND--Continued

351900089511100. Local number, Beaver Pond.

LOCATION.--Lat 35°19'00", long 89°51'11", Hydrologic Unit 08010209, 0.5 mi east of intersection of State Route 385 and Singleton Parkway, near the southeastern boundary of the Naval Support Activity Midsouth.
 Owner: Tennessee Department of Transportation (TDOT) and USGS.

DRAINAGE AREA.--88 mi².

PERIOD OF RECORD.--June 1993 to current year.

GAGE.--Water-level recorders--15-minute interval

REMARKS.--No missing record. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.91 ft. from recorded range in stage, Mar. 2, 1997; minimum .43 ft. Nov. 14, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.33 ft. Apr. 11, 13-17; minimum, .51 ft. Nov. 13-14, 16. 18.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	.54	.53	.54	.52	.52	.52	.53	.52	.53	2.27	2.24	2.25
2	.54	.53	.54	.53	.52	.53	.53	.52	.53	2.24	2.24	2.24
3	.54	.53	.54	.53	.52	.53	.53	.52	.52	2.24	2.23	2.23
4	.54	.54	.54	.53	.52	.52	.52	.52	.52	2.24	2.18	2.21
5	.54	.53	.54	.53	.52	.52	.53	.52	.53	2.18	2.14	2.16
6	.54	.53	.54	.53	.52	.52	.53	.52	.53	2.14	2.11	2.12
7	.54	.53	.53	.52	.52	.52	.53	.52	.53	2.11	2.08	2.09
8	.53	.53	.53	.52	.52	.52	.53	.52	.53	2.08	2.07	2.07
9	.53	.53	.53	.52	.52	.52	.53	.52	.53	2.07	2.07	2.07
10	.53	.53	.53	.52	.52	.52	.53	.52	.53	2.07	2.05	2.06
11	.54	.53	.53	.52	.52	.52	.53	.52	.53	2.05	2.04	2.05
12	.54	.53	.53	.52	.52	.52	1.23	.53	.90	2.04	2.03	2.04
13	.53	.53	.53	.52	.51	.52	2.05	1.23	1.63	2.06	2.03	2.06
14	.53	.53	.53	.52	.51	.52	2.45	2.05	2.28	2.05	2.04	2.04
15	.53	.53	.53	.52	.52	.52	2.60	2.45	2.53	2.04	2.03	2.03
16	.53	.53	.53	.52	.51	.52	2.65	2.60	2.63	2.04	2.03	2.03
17	.53	.53	.53	.52	.52	.52	2.66	2.65	2.66	2.04	2.03	2.04
18	.53	.53	.53	.52	.51	.52	2.66	2.65	2.66	2.05	2.04	2.04
19	.53	.53	.53	.75	.52	.53	2.65	2.64	2.65	2.04	2.04	2.04
20	.53	.53	.53	.63	.52	.53	2.64	2.61	2.63	2.04	2.03	2.03
21	.53	.52	.53	.53	.52	.53	2.61	2.57	2.59	2.03	2.02	2.02
22	.53	.52	.53	.53	.52	.52	2.57	2.53	2.55	2.14	2.02	2.09
23	.53	.53	.53	.53	.52	.52	2.53	2.50	2.51	2.14	2.13	2.14
24	.53	.52	.53	.53	.52	.53	2.50	2.46	2.48	2.13	2.12	2.13
25	.53	.52	.53	.53	.53	.53	2.46	2.43	2.44	2.12	2.11	2.11
26	.53	.52	.53	.53	.52	.53	2.43	2.40	2.41	2.11	2.09	2.10
27	.53	.52	.53	.53	.52	.53	2.40	2.37	2.39	2.09	2.08	2.08
28	.53	.52	.53	.53	.52	.53	2.37	2.34	2.36	2.10	2.08	2.09
29	.53	.52	.53	.53	.52	.53	2.34	2.32	2.33	2.11	2.09	2.10
30	.53	.52	.52	.53	.52	.53	2.32	2.29	2.30	2.11	2.11	2.11
31	.52	.52	.52	---	---	---	2.29	2.26	2.28	2.11	2.10	2.11
MONTH	.54	.52	.53	.75	.51	.52	2.66	.52	1.71	2.27	2.02	2.10

GROUND-WATER LEVELS

323

MILLINGTON WETLAND--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	2.11	2.10	2.10	2.93	2.92	2.93	3.02	2.93	2.95	3.14	3.12	3.13
2	2.10	2.10	2.10	2.93	2.93	2.93	3.03	3.02	3.02	3.13	3.10	3.12
3	2.10	2.10	2.10	2.93	2.93	2.93	3.20	3.03	3.12	3.15	3.12	3.14
4	2.10	2.09	2.10	2.93	2.92	2.93	3.22	3.20	3.21	3.16	3.14	3.15
5	2.09	2.08	2.08	2.92	2.91	2.91	3.25	3.22	3.24	3.18	3.14	3.17
6	2.08	2.07	2.07	2.91	2.89	2.90	3.26	3.25	3.26	3.17	3.15	3.16
7	2.07	2.07	2.07	2.89	2.88	2.88	3.26	3.26	3.26	3.15	3.12	3.13
8	2.07	2.06	2.06	2.88	2.87	2.87	3.26	3.25	3.25	3.12	3.08	3.10
9	2.06	2.05	2.05	2.87	2.85	2.86	3.25	3.23	3.24	3.14	3.06	3.09
10	2.05	2.05	2.05	2.85	2.84	2.84	3.23	3.21	3.22	3.14	3.10	3.12
11	2.05	2.05	2.05	2.84	2.82	2.83	3.33	3.21	3.27	3.10	3.07	3.08
12	2.05	2.05	2.05	2.82	2.80	2.81	3.32	3.30	3.31	3.07	3.04	3.05
13	2.07	2.05	2.06	2.80	2.78	2.79	3.33	3.32	3.32	3.29	3.05	3.23
14	2.07	2.06	2.06	2.78	2.76	2.77	3.33	3.33	3.33	3.30	3.29	3.30
15	2.06	2.05	2.05	2.82	2.75	2.76	3.33	3.33	3.33	3.31	3.30	3.30
16	2.05	2.04	2.05	2.92	2.82	2.90	3.33	3.32	3.33	3.30	3.29	3.30
17	2.15	2.04	2.07	2.91	2.90	2.91	3.33	3.31	3.32	3.29	3.28	3.29
18	2.16	2.15	2.15	2.91	2.90	2.91	3.31	3.30	3.31	3.28	3.27	3.28
19	2.15	2.14	2.14	3.04	2.91	3.00	3.30	3.28	3.29	3.27	3.27	3.27
20	2.14	2.13	2.13	3.10	3.04	3.07	3.29	3.27	3.28	3.27	3.27	3.27
21	2.13	2.12	2.12	3.11	3.10	3.11	3.27	3.26	3.27	3.27	3.25	3.26
22	2.12	2.11	2.11	3.12	3.11	3.12	3.26	3.25	3.25	3.25	3.23	3.24
23	2.15	2.10	2.12	3.12	3.12	3.12	3.31	3.23	3.25	3.23	3.20	3.22
24	2.15	2.15	2.15	3.12	3.11	3.11	3.32	3.29	3.30	3.20	3.18	3.19
25	2.15	2.15	2.15	3.11	3.09	3.10	3.29	3.27	3.28	3.19	3.16	3.17
26	2.48	2.14	2.27	3.09	3.07	3.08	3.27	3.24	3.26	3.19	3.14	3.16
27	2.71	2.48	2.58	3.07	3.04	3.05	3.24	3.22	3.23	3.22	3.18	3.20
28	2.85	2.71	2.78	3.04	3.00	3.02	3.22	3.20	3.21	3.22	3.18	3.20
29	2.92	2.85	2.89	3.00	2.98	2.99	3.20	3.17	3.18	3.18	3.15	3.17
30	---	---	---	2.98	2.97	2.98	3.17	3.14	3.15	3.15	3.11	3.13
31	---	---	---	2.97	2.95	2.96	---	---	---	3.11	3.07	3.09
MONTH	2.92	2.04	2.16	3.12	2.75	2.95	3.33	2.93	3.24	3.31	3.04	3.18
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	3.07	3.03	3.05	2.83	2.79	2.81	1.87	1.84	1.86	.58	.56	.57
2	3.03	2.99	3.01	2.79	2.75	2.78	1.84	1.81	1.83	.57	.56	.56
3	2.99	2.96	2.97	2.75	2.72	2.74	1.81	1.78	1.79	.56	.56	.56
4	2.96	2.95	2.96	2.72	2.68	2.70	1.78	1.76	1.77	.56	.55	.56
5	2.95	2.93	2.94	2.68	2.64	2.66	1.77	1.74	1.76	.56	.56	.56
6	2.93	2.89	2.91	2.64	2.60	2.62	1.74	1.70	1.72	.56	.55	.55
7	2.89	2.84	2.86	2.60	2.55	2.58	1.70	1.66	1.68	.56	.55	.55
8	2.84	2.81	2.83	2.55	2.51	2.54	1.66	1.62	1.64	.55	.55	.55
9	2.81	2.77	2.79	2.51	2.47	2.49	1.62	1.58	1.60	.55	.55	.55
10	2.77	2.73	2.75	2.47	2.43	2.45	1.58	1.54	1.56	.55	.55	.55
11	2.73	2.69	2.71	2.43	2.40	2.42	1.58	1.54	1.56	.55	.55	.55
12	2.69	2.64	2.67	2.40	2.36	2.38	1.54	1.50	1.52	.55	.54	.55
13	2.64	2.60	2.62	2.36	2.33	2.35	1.50	1.46	1.48	.55	.54	.55
14	2.73	2.56	2.60	2.33	2.29	2.31	1.46	1.41	1.43	.55	.54	.54
15	2.87	2.73	2.84	2.29	2.25	2.27	1.41	1.37	1.39	.55	.54	.55
16	2.86	2.83	2.85	2.25	2.21	2.23	1.37	1.33	1.35	.55	.54	.55
17	2.83	2.82	2.83	2.21	2.18	2.19	1.33	1.28	1.31	.55	.54	.54
18	2.88	2.82	2.84	2.18	2.15	2.16	1.28	1.24	1.26	.55	.54	.54
19	2.88	2.86	2.87	2.15	2.11	2.13	1.24	1.21	1.23	.54	.53	.54
20	2.87	2.84	2.86	2.16	2.09	2.13	1.21	1.17	1.19	.54	.53	.54
21	2.90	2.84	2.88	2.16	2.14	2.15	1.17	1.14	1.15	.54	.53	.54
22	2.90	2.88	2.89	2.14	2.11	2.13	1.14	1.10	1.12	.54	.53	.54
23	2.88	2.87	2.88	2.11	2.07	2.09	1.10	1.06	1.08	.54	.53	.53
24	2.87	2.84	2.86	2.07	2.03	2.05	1.06	1.03	1.04	.54	.53	.54
25	2.84	2.82	2.83	2.03	2.00	2.02	1.03	1.00	1.01	.54	.54	.54
26	2.86	2.81	2.83	2.00	1.97	1.98	1.00	.96	.98	.54	.54	.54
27	2.86	2.84	2.85	1.97	1.93	1.95	.96	.93	.95	.54	.53	.54
28	2.88	2.83	2.85	1.93	1.90	1.91	.93	.88	.90	.54	.53	.54
29	2.88	2.86	2.87	1.93	1.89	1.90	.88	.83	.85	.54	.53	.54
30	2.86	2.83	2.84	1.93	1.91	1.92	.83	.72	.79	.54	.53	.54
31	---	---	---	1.91	1.87	1.89	.72	.58	.65	---	---	---
MONTH	3.07	2.56	2.84	2.83	1.87	2.29	1.87	.58	1.34	.58	.53	.55

GROUND-WATER LEVELS

HAMILTON COUNTY

351428085003600. Local number, Hm:O-15.

LOCATION.--Lat 35°14'28", long 85°00'36", Hydrologic Unit 06020001, at Smith Road and State Highway 58, near Snow Hill.
Owner: Savannah Valley Utility District.

AQUIFER.--Knox Dolomite of Cambrian and Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian test well, diameter 10 in., depth 262 ft, cased to 50 ft, open end.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 735 ft above sea level, from topographic map. Measuring point: Instrument shelf, 5.66 ft above land-surface datum.

REMARKS.--Records good. Well previously published as "at Savannah Valley". Water level affected by pumping from municipal supply well 300 ft south. Negative values indicate water levels above land-surface.

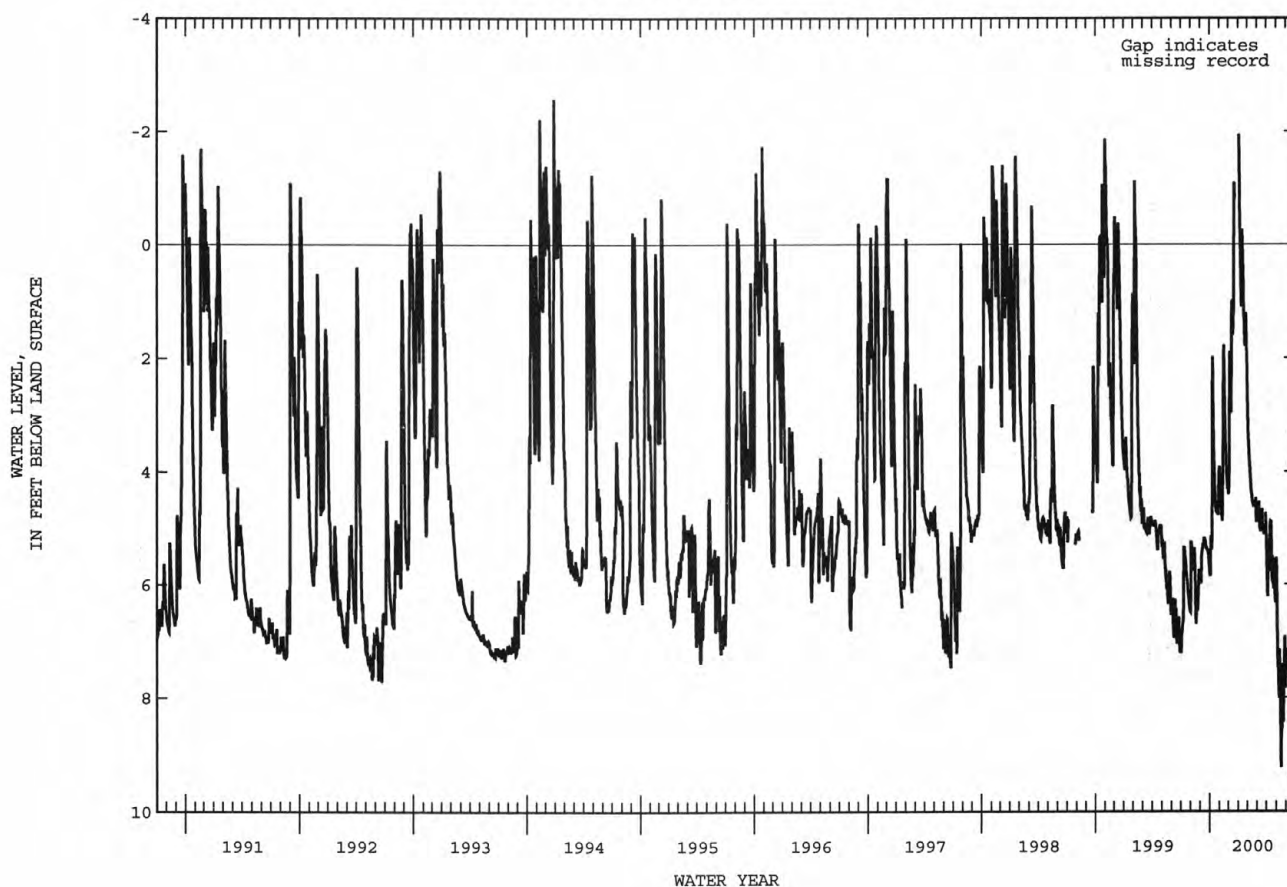
PERIOD OF RECORD.--May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.33 ft above land-surface datum, Feb. 11, 1994; lowest, 22.45 ft below land-surface datum, Sept. 3, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.87	5.33	5.99	5.22	4.43	2.97	-1.50	3.40	4.77	6.07	6.52	---
10	6.30	5.57	5.36	4.51	4.69	2.97	.25	3.99	4.99	5.65	7.92	---
15	5.52	5.59	5.18	3.67	2.08	1.39	-.26	4.40	4.95	4.89	7.95	8.04
20	5.86	6.46	5.29	4.57	3.08	-1.10	1.28	4.57	5.02	5.96	8.56	8.48
25	6.18	6.34	5.40	4.53	4.06	---	1.36	4.59	---	5.69	7.81	7.53
EOB	6.48	5.77	5.67	4.00	4.20	---	1.97	4.91	4.83	5.90	7.83	6.41
MAX	7.22	6.70	5.99	5.86	4.89	4.41	1.97	4.91	5.13	6.33	9.23	9.41

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

325

LAUDERDALE COUNTY

353839089493500. Local number, Ld:F-4.

LOCATION.--Lat 35°38'39", long 89°49'35", Hydrologic Unit 08010208, 1.1 mi north of State Highway 87 off Crutcher Lake Rd, at Fort Pillow State Park.

Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 to 6 to 3 in., depth 879 ft, cased to 869 ft, screened 869 to 879 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 437.05 ft above sea level. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--No missing records.

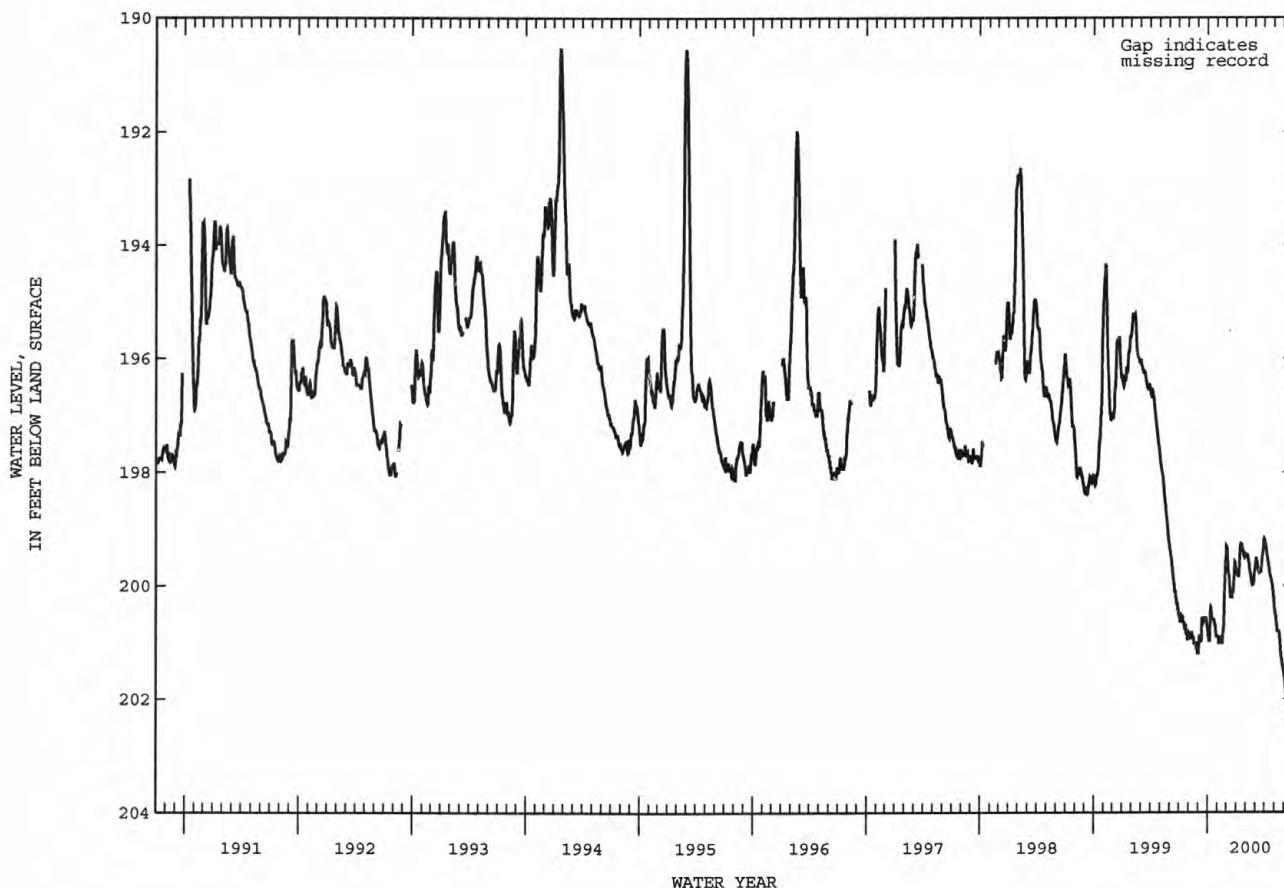
PERIOD OF RECORD.--April 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 187.76 ft below land-surface datum, Apr. 7, 1975; lowest, 200.50 ft below land-surface datum, Sept. 30, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	200.62	200.93	200.88	200.97	201.00	199.53	199.80	199.45	199.50	199.24	200.50	201.70
10	200.53	200.82	200.88	200.40	201.00	199.86	199.82	199.54	199.65	199.47	200.70	202.00
15	200.64	200.91	200.57	200.58	201.00	200.20	199.28	199.75	199.76	199.65	200.80	202.20
20	200.75	201.00	200.56	200.58	200.80	200.10	199.28	199.92	199.76	199.83	201.00	202.30
25	200.84	201.10	200.56	200.68	199.95	199.89	199.42	199.98	199.46	199.96	201.30	202.40
ECM	200.93	201.19	200.77	200.89	199.46	199.68	199.49	199.72	199.17	200.20	201.50	202.50
MAX	200.94	201.19	201.19	200.97	201.00	200.20	199.85	199.98	199.77	200.20	201.50	202.50

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

LINCOLN COUNTY

350034086422800. Local number, Li:G-1.

LOCATION.--Lat 35°00'34", long 86°42'28", Hydrologic Unit 06030002, on west side of Pepper Road at Taft well field, 0.8 mi south of State Highway 110, at Taft.

Owner: Lincoln Count Board of Public Utilities.

AQUIFER.--Fort Payne Formation of early Mississippian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 106.5 ft, cased to 106.5 ft, slotted from 53 to 87 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Altitude of land-surface datum is 904.00. Measuring point: Top of casing 2.10 ft above land-surface datum.

REMARKS.--Records good. Missing record Oct. 27-29. Water levels affected by pumpage from Taft Well field for municipal water supply.

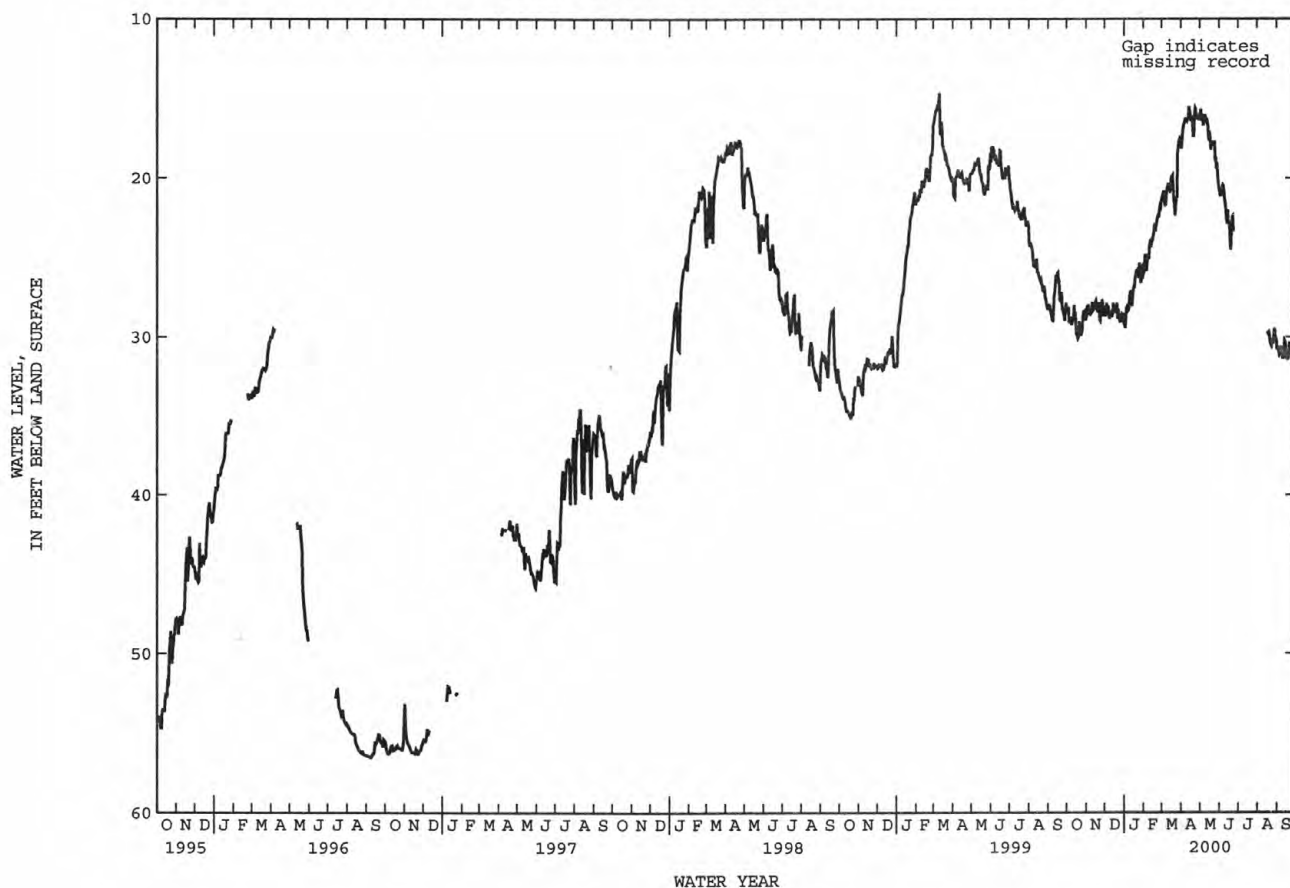
PERIOD OF RECORD.--April 1992 to Sept. 1992, Oct. 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.56 ft below land-surface datum, Mar. 11, 1999; lowest, 56.53 ft below land-surface datum, Sept. 7, 8, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.78	28.50	28.60	28.47	25.88	21.56	16.57	16.17	20.52	---	---	31.10
10	28.89	27.84	28.62	27.16	24.24	20.60	16.39	16.30	21.57	---	---	31.33
15	29.43	27.83	28.39	27.09	23.89	20.42	15.87	17.64	22.69	---	---	30.58
20	29.05	28.00	27.89	25.90	23.17	21.48	17.34	17.71	23.19	---	29.91	31.04
25	29.59	28.00	29.10	25.37	22.39	21.21	16.25	18.91	---	---	30.20	30.64
BOM	28.86	28.22	29.22	25.41	21.45	17.66	16.09	20.67	---	---	30.24	31.20
MAX	30.08	29.01	29.22	29.44	26.05	22.38	18.16	20.67	24.53	---	30.56	31.41

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

327

SEVIER COUNTY

353922083345600. Local number, Sv:E-2.

LOCATION.--Lat 35°39'22", long 83°34'56", Hydrologic Unit 06010201, 3.3 mi southwest of Great Smoky Mountains National Park Headquarters, near Gatlinburg.

AQUIFER.--Elkmt Sandstone of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused water-table well in phyllite, sandstone, diameter 6 in., depth 220 ft, cased to 27 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface is 2,150 ft above sea level, from topographic map. Measuring point: Floor of recorder shelter 1.5 ft above land-surface datum.

REMARKS.--Highest water level readings may be influenced for short periods by surface inflow. Records good.

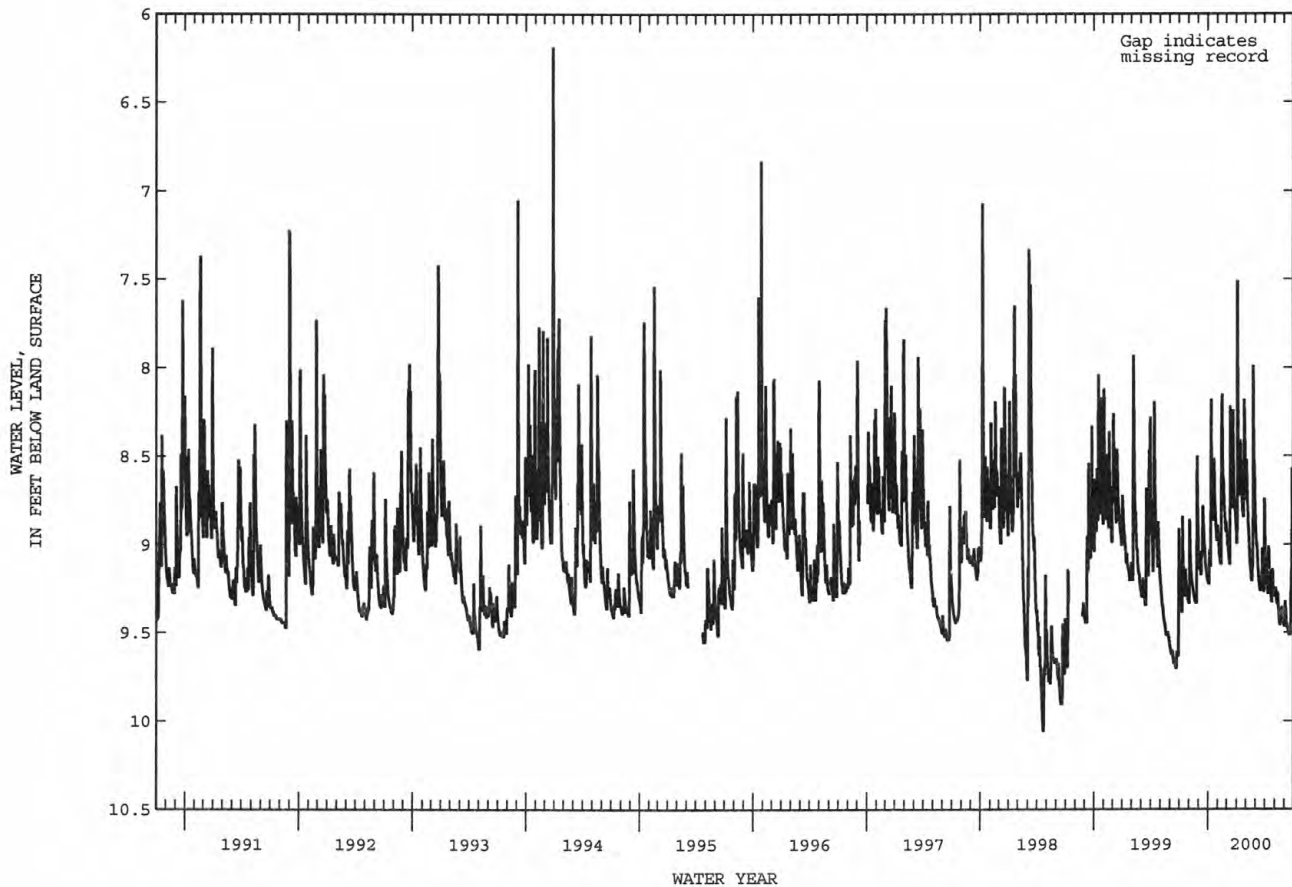
PERIOD OF RECORD.--May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.48 ft below land-surface datum, Mar. 27, 1994; lowest, 11.66 ft below land-surface datum, Oct. 18, 19, 20, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.20	9.05	9.14	9.03	9.02	9.01	8.00	8.63	9.00	9.20	9.25	9.35
10	9.38	9.20	9.17	8.75	9.11	9.11	8.66	8.91	9.15	9.27	9.34	9.46
15	9.20	9.27	8.78	8.81	8.15	8.75	8.50	9.11	9.25	9.12	9.41	9.50
20	9.29	9.32	9.00	8.52	8.66	8.70	8.80	9.21	9.24	9.27	9.40	9.51
25	9.26	9.33	9.13	8.85	8.88	8.75	8.67	7.99	9.21	9.14	9.35	9.16
EOM	9.33	8.91	9.20	8.89	8.91	8.93	8.54	8.81	8.74	9.29	9.46	9.14
MAX	9.38	9.33	9.20	9.22	9.11	9.11	8.99	9.21	9.27	9.33	9.46	9.51

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

SHELBY COUNTY

350857089591401. Local number, Sh: P-99.

LOCATION.--Lat 35°08'57", long 89°59'14", Hydrologic Unit 08010210, access road off North Parkway, 0.2 mi south of North Parkway, in Overton Park.
Owner: USGS and Memphis Park Commission.

AQUIFER.--Fluvial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 59 ft, cased to 53 ft, screened 53 to 59 ft.

INSTRUMENTATION.--Water level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 271.06 ft above sea level. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--No missing record.

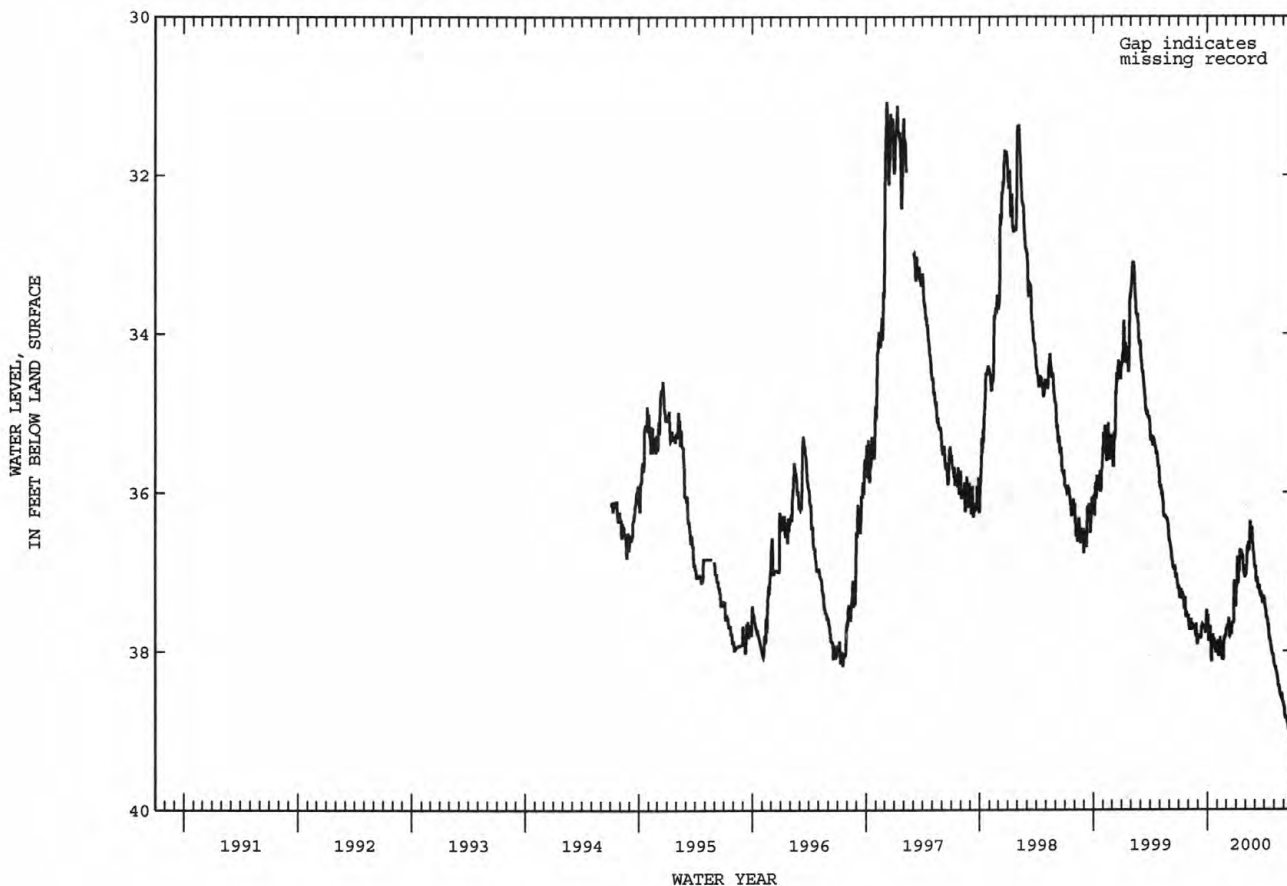
PERIOD OF RECORD.--July 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.27 ft below land-surface datum, April 30, 1991; lowest 42.58 ft below land-surface datum, November 15, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.32	37.72	37.79	37.86	38.06	37.68	37.11	36.98	37.03	37.46	38.20	38.83
10	37.29	37.60	37.83	37.69	37.82	37.63	37.00	36.75	37.12	37.58	38.27	38.85
15	37.28	37.70	37.69	37.96	38.05	37.76	36.72	36.65	37.19	37.66	38.44	38.96
20	37.46	37.70	37.68	37.89	38.10	37.64	36.78	36.51	37.27	37.86	38.53	38.94
25	37.56	37.80	37.77	37.88	37.82	37.63	36.98	36.64	37.34	37.98	38.56	39.17
EOM	37.58	37.90	37.59	37.88	37.77	37.44	37.08	36.91	37.32	38.10	38.65	39.12
MAX	37.58	37.90	37.87	38.12	38.11	37.81	37.42	37.05	37.40	38.10	38.65	39.19

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

329

SHELBY COUNTY--Continued

350900089482300. Local number, Sh:Q-1.

LOCATION.--Lat 35°09'00", long 89°48'23", Hydrologic Unit 08010210, south of Macon Road, 0.6 mi west of Germantown Road, near Memphis.

Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 384 ft, cased to 375 ft, screened 375 to 384 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 330.40 ft above sea level. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area. Missing record from July 5 to July 28, records good.

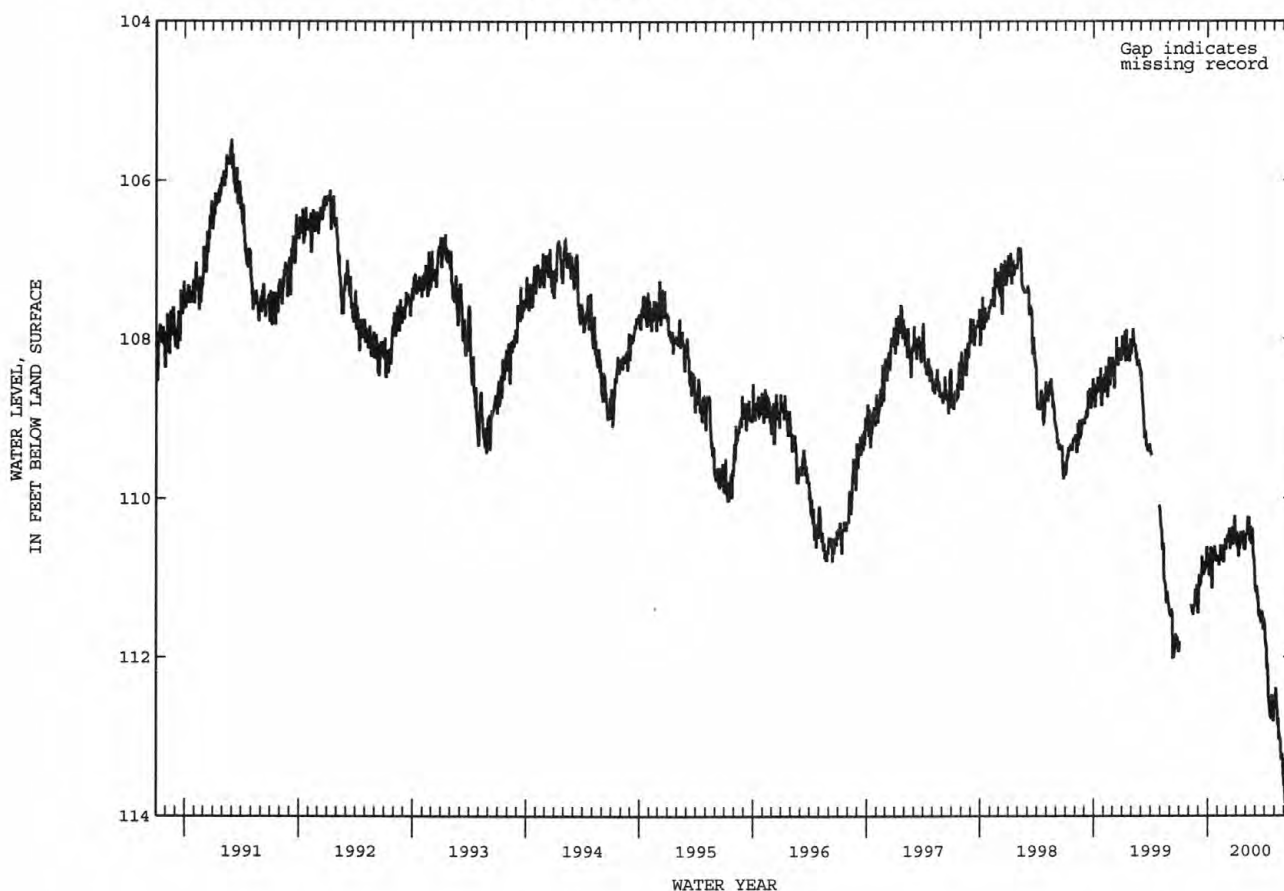
PERIOD OF RECORD.--October 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 74.08 ft below land-surface datum, Dec. 27, 1940; lowest 112.01 ft below land-surface datum, Sept. 10, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	110.96	110.98	110.85	110.50	110.62	110.45	111.11	111.87	112.45	113.83
10	---	111.38	111.00	110.61	110.60	110.43	110.66	110.30	111.23	112.09	112.63	113.60
15	---	111.47	110.92	111.07	110.74	110.47	110.42	110.54	111.41	112.58	113.03	113.59
20	---	111.33	110.87	110.74	110.81	110.37	110.51	110.58	111.49	112.72	113.02	113.55
25	---	111.22	110.89	110.67	110.57	110.39	110.59	110.64	111.57	112.53	113.26	113.62
EOM	---	111.44	110.74	110.73	110.58	110.56	110.60	111.06	111.56	112.61	113.54	113.62
MAX	111.90	111.47	111.44	111.14	110.85	110.64	110.74	111.06	111.66	112.81	113.54	113.83

LOWEST MONTHLY WATER LEVEL



PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

FAYETTE COUNTY

352226089330101. Local number, Fa:R-1.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.2 mi southeast of U.S. Highway 70, near Braden.

Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 1,025 ft, cased to 1,008 ft, screened 1,008 to 1,025 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 317.50 ft above sea level. Measuring point: Top of casing, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1949 to current year. Analog record August 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 64.89 ft below land-surface datum, Aug. 31, 1949; lowest recorded, 76.26 ft below land-surface datum, Dec. 5, 1970; highest water level measured, 73.61 ft below land-surface datum, Apr. 28, 1976; lowest measured, 93.45 ft below land-surface datum, Sept. 6, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	92.34	NOV 29	92.54	JAN 04	92.02	FEB 07	91.80	FEB 28	91.65	MAR 29	91.36
MAY 03	91.28	MAY 30	91.23	JUN 26	91.42	AUG 01	91.82	SEP 06	93.45	OCT 11	94.11*

352226089330102. Local number, Fa:R-2.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.1 mi southeast of U.S. Highway 70, near Braden.

Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 365 ft, cased to 345 ft, screened 345 to 365 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 317.20 ft above sea level. Measuring point: Top of casing, 4.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1949 to current year. Analog record October 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 37.25 ft below land-surface datum, Mar. 10, 1952; lowest recorded, 42.12 ft below land-surface datum, Nov. 30, 1967; highest water level measured, 39.00 ft below land-surface datum, March 3, 1998; lowest measured, 41.87 ft below land-surface datum, Sept. 6, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	40.21	NOV 29	40.48	JAN 04	40.42	FEB 07	40.53	FEB 28	40.98	MAR 29	40.44
MAY 03	40.50	MAY 30	40.57	JUN 26	40.71	AUG 01	40.99	SEP 06	41.87	OCT 11	41.98*

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

SHELBY COUNTY

350514089553700. Local number, Sh:K-75.

LOCATION.--Lat 35°05'14", long 89°55'37", Hydrologic Unit 08010211, at Willowview Avenue and Getwell Road, at Memphis.

Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Fluvial sand and gravel of Pleistocene age and possibly sand of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft, cased to 81 ft, screened 81 to 91 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 260 ft above sea level, from topographic map. Measuring point: Top of casing, 1.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for Memphis municipal water supply.

PERIOD OF RECORD.--August 1948 to September 1994 water-level recorder, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.28 ft below land-surface datum, Apr. 2, 1950; lowest recorded, 52.03 ft below land-surface datum, Jan. 13, 1988; highest water level measured, 45.73 ft below land surface-datum, Jul 6, 1998; lowest measured, 49.25 ft below land-surface datum, Sept. 6, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	47.31	NOV 30	47.44	JAN 06	47.72	FEB 11	47.89	MAR 07	47.82	MAR 30	48.02
MAY 05	48.10	JUN 05	48.22	JUN 28	48.27	AUG 03	48.42	SEP 06	49.25	OCT 11	49.40*

351435090005200. Local number, Sh:O-1.

LOCATION.--Lat 35°14'35", long 90°00'52", Hydrologic Unit 08010209, west side of O.K. Robertson Road, 0.4 mi north of U.S. Highway 51, at Memphis.

Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 434 ft, cased to 424 ft, screened 424 to 434 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 228.70 ft above sea level. Measuring point: Top of casing, 4.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--September 1940 to current year. Analog record September 1940 to January 1992, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 12.65 ft below land-surface datum, Sept. 3, 1940; lowest recorded, 68.82 ft below land-surface datum, Aug. 24, 1988; highest water level measured, 50.16 ft below land-surface datum, Mar. 29, 1994; lowest measured, 65.75 ft below land-surface datum, Sept. 7, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	62.66	DEC 06	60.94	JAN 05	60.58	FEB 08	59.87	MAR 06	56.98	APR 05	55.88
MAY 08	56.06	MAY 31	57.96	JUN 26	58.36	AUG 02	62.26	SEP 07	65.75	OCT 13	63.95*

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

SHELBY COUNTY--Continued

50735089593300. Local number, Sh: P-76.

LOCATION.--Lat. 35°07'35", long 89°59'33", Hydrologic Unit 08010210, at Central Avenue and Tanglewood Street, At Memphis.

Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 286.70 ft above sea level. Measuring point: Top of casing, 1.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--October 1928 to current year. Analog record October 1928 to September 1997, periodic measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.65 ft below land-surface datum, Apr. 3, 1933; lowest, 147.31 ft below land-surface datum, June 30, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL
NOV 02	97.91	NOV 30	97.94	JAN 06	93.25	FEB 11	90.86	MAR 08	90.74	MAR 31	90.30
MAY 05	90.29	JUN 05	92.10	JUN 28	94.08	AUG 03	96.12	SEP 06	100.25	OCT 19	94.20*

352112089571200. Local number, Sh:U-1.

LOCATION.--Lat 35°21'12", long 89°57'12", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake. Rag Road, Sloanville.

Owner: Mrs. T.S. Welch

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 to 16 in., depth 1,558 ft, cased to 1,497 ft, screened 1,497 to 1,558 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 264.20 ft above sea level. Measuring point: Top of casing, 0.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--August 1946 to current year. Analog record March 1948 to January 1971, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 35.5 ft below land-surface datum, Apr. 11, 1948; lowest recorded, 60.42 ft below land-surface datum, Dec. 20, 1970; highest water level measured, 33.20 ft, Apr. 21, 1947; lowest measured, 88.94 ft below land-surface datum, Sept. 30, 1999.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL
OCT 29	88.65	DEC 06	87.96	JAN 05	87.42	FEB 08	86.71	MAR 06	85.75	APR 05	85.65
MAY 08	84.70	MAY 31	85.05	JUN 26	85.60	AUG 02	86.94	SEP 07	88.64	OCT 12	89.45*

PERIODIC MEASUREMENTS OF GROUND-WATER LEVELS

SHELBY COUNTY--Continued

352112089571300. Local number, Sh:U-2.

LOCATION.--Lat 35°21'12", long 89°57'13", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake Rag Road, Sloanville.
Owner: Mrs. F.E. Byrd

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 to 12 in., depth 440 ft, cased to 360 ft, screened 360 to 440 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 268.76 ft above sea level. Measuring point: Top of casing, 1.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--June 1953 to current year. Analog record June 1953 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.59 ft below land-surface datum, June 29, 1953; lowest, 64.88 ft below land-surface datum, Sept. 7, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	61.40	DEC 06	61.23	JAN 05	61.24	FEB 08	61.26	MAR 07	60.11	APR 05	59.69
MAY 08	59.60	MAY 31	60.59	JUN 26	60.99	AUG 02	62.46	SEP 07	64.88	OCT 12	64.76

CRITTENDEN COUNTY, AR

350344090130000. Local number, Ar:H-2.

LOCATION.--Lat 35°03'44", long 90°13'00", Hydrologic Unit 08020203, 0.7 mi east of Millers.
Owner: Memphis Light, Gas, and Water Division, City of Memphis, and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 502 ft, cased to 482 ft, screened 482 to 502 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 211 ft above sea level, from topographic map. Measuring point: Inside top of shelter base plate, 3.30 ft above land-surface datum.

REMARKS.--Well affected by pumpage in the Memphis, Tennessee area. Records good.

PERIOD OF RECORD.--May 1983 to current year. Analog record from May 1983 to October 1995, periodic measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.28 ft below land-surface datum, May 30, 31, 1983; lowest, 32.32 ft below land-surface datum, Sept. 7, 2000.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02	30.75	DEC 01	30.94	JAN 05	30.58	FEB 08	30.20	MAR 06	28.22	MAR 31	27.94
MAY 08	27.83	MAY 31	27.66	JUN 28	27.56	AUG 03	29.57	SEP 07	32.32	OCT 18	33.36*

QUALITY OF GROUND WATER

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

The following wells located in the Lower Tennessee River basin were sampled as part of the U.S. Geological Survey's National Water Quality Assessment Program to characterize water quality of major aquifers and to assess the occurrence and distribution of nutrients, pesticides, and volatile organic compounds in ground water.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

354014086093401 - Cf:M-21 (EHR-LUS3)

		DEPTH OF WELL, TOTAL (FEET) (72008)		SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY 30...	1400	43.50	38	5.5	18.3	744	96	2.3	25	<1	12	3.52	
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	
MAY 30...	.67	.7	11	.1	.6	21	17	E.3	.6	<.1	.01	9.4	
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	
MAY 30...	22	<.010	.248	<.020	<.10	<.006	<.010	600	1430	E.27	<.002	<.002	
DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	
MAY 30...	.015	<.002	<.002	<.004	<.004	E.004	<.002	<.001	<.003	<.004	<.005	<.004	
DATE	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)		
MAY 30...	.008	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003		
DATE	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)		
MAY 30...	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004		

E--Estimated

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

354014086093401 - Cf:M-21 (EHR-LUS3)--Continued

DATE	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
MAY 30...	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002

353341086074501 - Cf:J-32 (EHR-LUS1)

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL AS CACO3 (00900)
MAY 30...	1645	42.0	43.00	137	6.4	18.7	744	97	2.8	31	<1	8

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WAT DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
MAY 30...	2.31	.44	13.5	49	2	17.7	84	69	3.7	.7	.1	<.01

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
MAY 30...	5.9	79	91	.11	<.010	<.050	.030	<.10	<.006	<.010	<10	5060

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	PONOFOS WATER DISS REC (UG/L) (04095)
MAY 30...	.36	<.002	.057	.139	<.002	<.002	<.004	<.004	E.004	<.002	<.001	<.003

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
MAY 30...	<.004	<.005	<.004	<.002	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003

E--Estimated

QUALITY OF GROUND WATER

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

353341086074501 - Cf:J-32 (EHR-LUS1)--Continued

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
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MAY
30... <.002 <.003 <.017 <.004 <.003 <.002 <.002 <.001 <.006 <.004 <.003 <.004

DATE	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
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MAY
30... <.004 <.005 <.002 <.003 <.004 <.013 <.010 <.007 <.013 <.001 <.002 <.002

352627086002601 - EHR-LUS2 Cf:G-129

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD) (UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
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MAY
30... 1330 15.00 131 6.1 16.8 750 7.1 5.7 60 27 64 14

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
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MAY
30... 18.9 4.10 1.6 5 .1 1.1 61 50 4.0 3.0 <.1 <.01

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
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MAY
30... 6.8 82 79 .11 <.010 2.19 <.020 .12 <.006 <.010 E10 94

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FOONOFOS WATER DISS REC (UG/L) (04095)
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MAY
30... 1.8 <.002 <.002 1.82 <.002 <.002 <.004 <.004 E.71 <.002 <.001 <.003

E--Estimated

QUALITY OF GROUND WATER

337

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

352627086002601 - EHR-LUS2 Cf:G-129--Continued

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD (UG/L) (82673)	CAR- BARYL WATER FLTRD (UG/L) (82680)	CARBO- FURAN WATER FLTRD (UG/L) (82674)
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MAY 30...	<.004	<.005	<.004	<.002	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003
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DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLD 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLD 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLD 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
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MAY 30...	<.002	<.003	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004
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DATE	PENDI- METH- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLD 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
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MAY 30...	<.004	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002
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351646086040701 - EHR-LUS5 Fr:S-45

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
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MAY 30...	1730	43.50	264	7.0	19.2	750	46	<1	130	13	47.7	2.04
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DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
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MAY 30...	4.7	7	.2	.8	140	115	7.6	1.2	.1	.02	8.4	158
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DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)
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MAY 30...	142	.21	<.010	.121	<.020	<.10	E.005	<.010	<10	71	.49	<.002
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E--Estimated

QUALITY OF GROUND WATER

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

351646086040701 - EHR-LUS5 Fr:S-45--Continued

DATE	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)
MAY 30...	<.002	<.005	<.002	<.002	<.004	<.004	<.002	<.002	<.001	<.003	<.004	<.005

DATE	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U (UG/L) (82674)	DCPA WATER FLTRD 0.7 U (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)
MAY 30...	<.004	<.002	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003	<.002	<.003

DATE	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
MAY 30...	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004

DATE	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
MAY 30...	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002

350709086120701 - EHR-LUS4 Fr:G-11

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED FIELD (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
JUN 06...	1000	50.0	51.00	245	6.6	17.5	754	2.2	5.2	55	<1

DATE	HARD- NESS NONCARB DISSOLV TOTAL (MG/L) AS CACO3 (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)
JUN 06...	110	7	34.1	6.96	1.5	3	.1	.5	130	106	4.0

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350709086120701 - EHR-LUS4 Fr:G-11--Continued

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUN 06...	4.2	<.1	.03	7.6	140	135	.19	<.010	2.64	<.020	<.10
DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
JUN 06...	.035	.026	<10	5	.38	<.002	<.002	.185	<.002	<.002	<.004
DATE	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FONOPOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
JUN 06...	<.004	E.32	<.002	<.001	<.003	<.004	<.005	<.004	.009	<.006	<.004
DATE	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD GF, REC (UG/L) (82674)	DCPA WATER FLTRD GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT GF, REC (UG/L) (82663)	
JUN 06...	<.007	<.018	.017	<.002	<.003	<.003	<.002	<.003	<.017	<.004	
DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT GF, REC (UG/L) (82687)	
JUN 06...	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	<.004	<.005	
DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	
JUN 06...	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002	

QUALITY OF GROUND WATER

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

351459085555901 - Fr:O-14 (EHR-LUS6)

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	
JUN 05...	1830	23.00	178	6.8	18.5	748	17	7.7	84	K3	70	31	
DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	
JUN 05...	17.2	6.65	4.1	11	.2	.7	48	39	2.0	9.7	.1	.03	
DATE	TIME	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JUN 05...	8.4	127	110	.17	<.010	8.45	<.020	.17	<.006	<.010	<10	3	
DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC. (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FOFOS WATER DISS REC (UG/L) (04095)
JUN 05...	.56	<.002	<.002	.967	<.002	<.002	<.004	<.004	E.65	<.002	<.001	<.003	
DATE	TIME	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
JUN 05...	<.004	<.005	<.004	.168	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003	
DATE	TIME	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
JUN 05...	<.002	<.003	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004	

K--Results based on non-ideal colony count.
E--Estimated

QUALITY OF GROUND WATER

341

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

351459085555901 - Fr:O-14 (EHR-LUS6)--Continued

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
JUN 05...	<.004	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002

351118086051801 - EHR-LUS7 Fr:N-16

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JUN 05...	1400	73.50	263	6.2	21.0	750	49	7.0	80	K10	120	16

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
JUN 05...	38.7	4.49	1.7	3	.1	.7	121	99	2.7	6.9	<.1	.02

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JUN 05...	6.9	162	143	.22	<.010	4.81	<.020	<.10	.035	.027	<10	7

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ACETO-CHLOR, WATER, FLTRD, REC (UG/L) (49260)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN, DIS-SOLVED (UG/L) (39381)	FONOFOS WATER DISS REC (UG/L) (04095)
JUN 05...	.58	<.002	<.002	.841	<.002	<.002	<.004	<.004	E.22	<.002	<.001	<.003

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
JUN 05...	<.004	<.005	.015	.218	<.006	<.004	<.007	E.010	<.005	<.002	<.003	<.003

E--Estimated

QUALITY OF GROUND WATER

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

351118086051801 - EHR-LUS7 Fr:N-16--Continued

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
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JUN 05...	<.002	<.003	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004
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DATE	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
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JUN 05...	<.004	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002
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350203086391701 - Li:G-13 (EHR-LUS8)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
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MAY 31...	1030	25.0	29.00	45	4.8	19.6	756	9.3	.8	8	<1	7
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DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
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MAY 31...	1.72	.62	4.0	54	.7	.4	9	7	2.4	3.8	<.1	.05
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DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
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MAY 31...	9.3	23	32	.03	<.010	.717	<.020	<.10	<.006	<.010	1220	373
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DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO- CHLOR, WATER, FLTRD REC, (UG/L) (49260)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	BUTYL- ATE, WATER, DISS, REC, (UG/L) (04028)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC, (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	FOFOS WATER DISS REC (UG/L) (04095)
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MAY 31...	E.23	<.002	<.002	<.001	<.002	<.002	<.004	<.004	<.002	<.002	<.001	<.003
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E--Estimated

QUALITY OF GROUND WATER

343

WATER-QUALITY DATA, LOWER TENNESSEE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350203086391701 - Li:G-13 (EHR-LUS8)--Continued

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	BEN- FLUR- ALIN WAT FLD 0.7 U (UG/L) (82673)	CAR- BARYL WATER FLTRD 0.7 U (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U (UG/L) (82674)
MAY 31...	<.004	<.005	<.004	<.002	<.006	<.004	<.007	<.018	<.005	<.002	<.003	<.003
DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
MAY 31...	<.002	<.003	<.017	<.004	<.003	<.002	<.002	<.001	<.006	<.004	<.003	<.004
DATE	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
MAY 31...	<.004	<.005	<.002	<.003	<.004	<.013	<.010	<.007	<.013	<.001	<.002	<.002

QUALITY OF GROUND WATER

SHELBY COUNTY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350446090013500 - SH:J-154 MLGW-ALLEN

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)
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AUG 31...	1130	370.00	140	6.2	17.7	50	11.4	5.16	8.3	26	.5
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DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
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AUG 31...	.9	73	1.8	3.3	<.1	12.9	83	84	.11	<15	64
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DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
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AUG 31...	<13	780	<3.9	13	<34	E1	<2.4	<1	52.0	<10
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350642089555000 - SH:K-142 MLGW 99 SHEAHAN WELL FIELD

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
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AUG 31...	1010	116	6.1	17.8	35	8.11	3.61	10.3	38	.8	.7
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DATE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
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AUG 31...	68	6.0	4.9	<.1	14.3	73	73	.10	<15	24
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DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
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AUG 31...	<13	160	<3.9	16	<34	<1	<2.4	<1	21.4	<10
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QUALITY OF GROUND WATER

345

SHELBY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350230089512301 - SH:L-37 MLGW-LICHTERMAN

				PH									
		DEPTH	SPE-	WATER		HARD-	CALCIUM	MAGNE-	SODIUM,			SODIUM	
		OF	CIFIC	WHOLE	TEMPER-	NESS	DIS-	SIUM,	DIS-			AD-	
		WELL,	CON-	FIELD	ATURE	TOTAL	SOLVED	DIS-	SOLVED			SORP-	
		TOTAL	DUCT-	(STAND-	WATER	AS	(MG/L	(MG/L	(MG/L			TION	
DATE	TIME	(FEET)	ANCE	ARD	(DEG C)	CACO3)	AS CA)	AS MG)	AS NA)	SODIUM	PERCENT	RATIO	
		(72008)	(00095)	(00400)	(00010)	(00900)	(00915)	(00925)	(00930)	(00932)	(00932)	(00931)	
AUG													
30...	1220	382.00	93	6.1	17.3	24	5.92	2.31	9.2	45		.8	
		POTAS-	CARBON	CHLO-	FLUO-	SILICA,	SOLIDS,	SOLIDS,	SOLIDS,	ALUM-			BARIUM,
		SIUM,	DIOXIDE	RIDE,	RIDE,	DIS-	RESIDUE	SUM OF	DIS-	INUM,			DIS-
		DIS-	DIS-	DIS-	DIS-	SOLVED	AT 180	CONSTI-	SOLVED	DIS-			SOLVED
		SOLVED	SOLVED	SOLVED	SOLVED	AS	DEG. C	TUENTS,	DIS-	SOLVED	(TONS	(UG/L	
		(MG/L	(MG/L	(MG/L	(MG/L	SIO2)	AS	DIS-	SOLVED	PER	AC-FT)	AS AL)	AS BA)
		AS K)	AS CO2)	AS SO4)	AS CL)	AS F)	AS MO)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(01106)	(01005)
		(00935)	(00405)	(00945)	(00940)	(00950)	(00955)	(70300)	(70301)	(70303)	(01106)	(01005)	
AUG													
30...	.5	53	2.9	5.2	<.1	13.1	62	58	.08	<15		16	
		COBALT,	IRON,	LITHIUM	MANGA-	MOLYB-	NICKEL,	SELE-	SILVER,	STRON-	VANA-		
		DIS-	DIS-	DIS-	NESE,	DENUM,	DIS-	NIUM,	DIS-	TIUM,	DIUM,	DIS-	
		SOLVED	SOLVED	SOLVED	DIS-	DIS-	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	
		(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	
		AS CO)	AS FE)	AS LI)	AS MN)	AS MO)	AS NI)	AS SE)	AS AG)	AS SR)	AS V)	(01085)	
		(01035)	(01046)	(01130)	(01056)	(01060)	(01065)	(01145)	(01075)	(01080)	(01085)		
AUG													
30...	<13	120	<3.9	E2	<34	<1	<2.4	<1	16.0	<10			
350507089482401 - SH:L-090 GERMANTOWN 7													
		DEPTH	SPE-	WATER		HARD-	CALCIUM	MAGNE-	SODIUM,			SODIUM	
		OF	CIFIC	WHOLE	TEMPER-	NESS	DIS-	SIUM,	DIS-			AD-	
		WELL,	CON-	FIELD	ATURE	TOTAL	SOLVED	DIS-	SOLVED			SORP-	
		TOTAL	DUCT-	(STAND-	WATER	AS	(MG/L	(MG/L	(MG/L			TION	
DATE	TIME	(FEET)	ANCE	ARD	(DEG C)	CACO3)	AS CA)	AS MG)	AS NA)	SODIUM	PERCENT	RATIO	
		(72008)	(00095)	(00400)	(00010)	(00900)	(00915)	(00925)	(00930)	(00932)	(00932)	(00931)	
AUG													
29...	1115	304.00	90	6.3	17.1	25	5.96	2.33	9.1	44	.8	.6	
		CARBON	CHLO-	FLUO-	SILICA,	SOLIDS,	SOLIDS,	SOLIDS,	NITRO-	NITRO-	NITRO-	NITRO-	
		DIOXIDE	RIDE,	RIDE,	DIS-	RESIDUE	SUM OF	DIS-	GEN,	GEN,	GEN,	GEN,AM-	
		DIS-	DIS-	DIS-	SOLVED	AT 180	CONSTI-	SOLVED	NITRITE	NO2+NO3	AMMONIA	MONIA +	
		SOLVED	SOLVED	SOLVED	AS	DEG. C	TUENTS,	DIS-	DIS-	DIS-	DIS-	ORGANIC	
		(MG/L	(MG/L	(MG/L	(MG/L	AS	DIS-	(TONS	SOLVED	SOLVED	SOLVED	DIS.	
		AS CO2)	AS SO4)	AS CL)	AS F)	SIO2)	SOLVED	PER	(MG/L	(MG/L	(MG/L	(MG/L	
		(00405)	(00945)	(00940)	(00950)	(00955)	(MG/L)	AC-FT)	AS N)	AS N)	AS N)	AS N)	
		(00405)	(00945)	(00940)	(00950)	(00955)	(70300)	(70301)	(00613)	(00631)	(00608)	(00623)	
AUG													
29...	34	2.5	5.7	<.1	12.3	58	58	.08	<.010	.154	<.020	<.10	
		PHOS-	ALUM-	BARIUM,	COBALT,	IRON,	LITHIUM	MANGA-	MOLYB-	NICKEL,	SELE-	SILVER,	
		PHORUS	INUM,	DIS-	DIS-	DIS-	DIS-	NESE,	DENUM,	DIS-	NIUM,	DIS-	
		DIS-	DIS-	DIS-	DIS-	SOLVED	SOLVED	DIS-	DIS-	SOLVED	DIS-	SOLVED	
		SOLVED	SOLVED	SOLVED	SOLVED	(UG/L	(UG/L	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	
		(MG/L	(MG/L	(UG/L	(UG/L	AS	AS FE)	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	
		AS P)	AS P)	AS AL)	AS BA)	AS CO)	AS FE)	AS LI)	AS MN)	AS MO)	AS NI)	AS AG)	
		(00666)	(00671)	(01106)	(01005)	(01035)	(01046)	(01130)	(01056)	(01060)	(01065)	(01075)	
AUG													
29...	<.006	<.010	<15	20	<13	<10	<3.9	<2	<34	<1	<2.4	<1	

QUALITY OF GROUND WATER

SHELBY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350507089482401 - SH:L-090 GERMANTOWN 7--Continued

DATE	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)
AUG 29...	17.1	<10	<.05	<.06	<.1	<.06	<.2	E.04	<.05	<.04	<.03	<.1

DATE	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)
AUG 29...	<.03	<.3	<.5	<.4	<.1	<.09	<.07	<.04	<.03	<.06	<.09

DATE	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	STYRENE TOTAL (UG/L) (77128)
AUG 29...	<.05	<.07	<.03	<.05	<.05	<.3	<.09	<.09	<.1	<.04	<.04

350449089480501 - SH:L-092 GERMANTOWN 9

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	
				WATER WHOLE FIELD (STAND- ARD UNITS) (00400)								
AUG 29...	1220	309.00	65	6.3	17.2	18	4.33	1.68	6.9	45	.7	.5

DATE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 29...	25	1.5	3.7	<.1	12.2	46	48	.06	<.010	.139	<.020	<.10

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
AUG 29...	<.006	<.010	<15	14	<13	E10	<3.9	<2	<34	<1	<2.4	<1

QUALITY OF GROUND WATER

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SHELBY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

350449089480501 - SH:L-092 GERMANTOWN 9--Continued

DATE	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)
AUG 29...	12.2	<10	<.05	<.06	<.1	<.06	<.2	E.06	<.05	<.04	<.03	<.1

DATE	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)
AUG 29...	<.03	<.3	<.5	<.4	<.1	<.09	<.07	<.04	<.03	<.06	<.09

DATE	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	STYRENE TOTAL (UG/L) (77128)
AUG 29...	<.05	<.07	<.03	<.05	<.05	<.3	<.09	<.09	<.1	<.04	<.04

351420089570900 - SH:P-131 MLGW MORTON 621

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	
									SODIUM PERCENT (00932)		
AUG 30...	1425	121	6.7	18.1	43	10.4	4.06	8.7	30	.6	.8

DATE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
AUG 30...	24	3.2	2.6	<.1	10.7	73	73	.10	<15	58

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
AUG 30...	<13	960	<3.9	15	<34	<1	<2.4	<1	52.9	<10

QUALITY OF GROUND WATER

SHELBY COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

351054089515301 - Sh:Q-33

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00932)	SODIUM AD- SORP- TION RATIO (00931)
AUG 29...	1600	275.00	113	6.2	17.1	32	7.66	3.19	10.0	39	.8

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
AUG 29...	.9	55	6.3	5.3	<.1	11.1	68	69	.09	<15	35

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
AUG 29...	<13	750	<3.9	10	<34	<1	<2.4	<1	29.4	<10

350835089434100 - SH:R-29 MLGW #710

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00932)	SODIUM AD- SORP- TION RATIO (00931)
AUG 29...	1435	589.00	51	6.1	19.8	15	3.88	1.36	4.3	37	.5

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
AUG 29...	.5	35	1.4	2.1	<.1	9.9	30	36	.04	<15	7

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
AUG 29...	<13	90	<3.9	5	<34	<1	<2.4	<1	7.9	<10

CHEMICAL QUALITY OF PRECIPITATION

349

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN

(NATIONAL TRENDS NETWORK)

LOCATION.--Lat 35°28'08", long 89°10'14", Haywood County, Hydrologic Unit 08010208, 0.9 mi north of Hillville, 12 mi southeast of Brownsville.

PERIOD OF RECORD.--October 1984 to current year.

INSTRUMENTATION.--An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with a precipitation sensor which activates a motor to operate the sample bucket cover. The sample bucket remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected. A standard 8.0-inch recording rain gage is used to obtain on-site precipitation records.

REMARKS.--These data are part of the data for this site verified by the National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Coordinator. Additional data are available from the NADP/NTN Coordinator, Natural Resource Ecology Laboratory, Fort Collins, Co. 80523. Finalized, quality assured data from all 200 NADP/NTN sites are available on-line via the internet at <http://btdqs.usgs.gov/acidrain>

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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