

Water Resources Data Texas Water Year 2004

Volume 2. Trinity River Basin

By Susan C. Aragon Long, Brian D. Reece, and Deanna R. Eames

Water-Data Report TX-04-2



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

U.S. Department of the Interior
U.S. Geological Survey



U.S. Department of the Interior

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2005

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PREFACE

This edition of the annual hydrologic data report of Texas is one of a series of annual reports that document hydrologic data collected from the U.S. Geological Survey's 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 Federal, State, local agencies, and the private sector for developing and managing land and water resources in Texas which are contained in 6 volumes:

- Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, and Intervening Coastal Basins
- Volume 2. Trinity River Basin
- Volume 3. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening Coastal Basins
- Volume 4. Colorado River Basin, Lavaca River Basin and Intervening Coastal Basins
- Volume 5. Guadalupe River Basin, Nueces River Basin, Rio Grande Basin, and Intervening Coastal Basins
- Volume 6. Ground-Water Data

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 the primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, most of the data were collected, computed, and processed from Subdistrict and Field Offices. The following supervised the collection, processing, and tabulation of the data:

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE March 2005		3. REPORT TYPE AND DATES COVERED Annual--Oct. 1, 2003, to Sept. 30, 2004
4. TITLE AND SUBTITLE Water Resources Data--Texas, Water Year 2003, Volume 2 Trinity River Basin			5. FUNDING NUMBERS	
6. AUTHOR(S) S.C. Aragon Long, B.D. Reece, and D.R. Eames				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) USGS Texas Water Science Center 8027 Exchange Dr. Austin, TX 78754-4733			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WDR-TX-04-2	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) USGS Texas Water Science Center 8027 Exchange Dr. Austin, TX 78754-4733			10. SPONSORING / MONITORING AGENCY REPORT NUMBER USGS-WDR-TX-04-2	
11. SUPPLEMENTARY NOTES Prepared in cooperation with Federal, State, and local agencies.				
12a. DISTRIBUTION / AVAILABILITY STATEMENT No restriction on distribution. This report may be purchased from National Technical Information Service Springfield, VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Water-resources data for the 2004 water year for Texas are presented in six volumes, and consist of records of stage, discharge, and water quality of streams and canals; stage, contents, and water-quality of lakes and reservoirs; and water levels and water quality of ground-water wells. Volume 2 contains records for water discharge at 54 gaging stations; stage only at 4 gaging stations; elevation at 17 lakes and reservoirs; content at 8 lakes and reservoirs; and water quality at 22 gaging stations. Also included are data for 2 partial-record stations comprised of 1 flood-hydrograph and 1 crest-stage station. Also included are lists of discontinued surface-water discharge or stage-only stations and discontinued surface-water-quality stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating Federal, State, and local agencies in Texas. Records for a few pertinent stations in the bordering States also are included.				
14. SUBJECT TERMS *Texas, *hydrologic data, *surface water, *water quality, flow rate, gaging stations, lakes, reservoirs, chemical analyses, sediments, water temperature, sampling sites.			15. NUMBER OF PAGES 475	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT	

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GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Type of data collected: (d) discharge; (c) chemical; (b) biological; (t) water temperature;
(s) sediment; (e) elevation, gage heights, or contents; (p) precipitation.]

	Station number	Page
WESTERN GULF OF MEXICO BASINS		
TRINITY RIVER BASIN		
West Fork Trinity River near Jacksboro (d) -----	08042800	34
Lost Creek:		
Lost Creek Reservoir near Jacksboro (e) -----	08042820	36
Bridgeport Reservoir above Bridgeport (e) -----	08043000	38
Big Sandy Creek:		
Lake Amon G. Carter near Bowie (e) -----	08043700	40
Big Sandy Creek near Chico (d) -----	08043950	42
West Fork Trinity River near Boyd (d) -----	08044500	44
Walnut Creek at Reno (d) -----	08044800	46
Eagle Mountain Reservoir above Fort Worth (e) -----	08045000	48
Lake Worth above Fort Worth (e) -----	08045400	50
Farmers Branch at Westworth Village, Fort Worth (e) -----	08045525	52
Lake Weatherford near Weatherford (e) -----	08045800	54
Clear Fork Trinity River near Weatherford (d) -----	08045850	56
Benbrook Lake near Benbrook (e) -----	08046500	58
Clear Fork Trinity River near Benbrook (d) -----	08047000	60
Mary's Creek at Benbrook (d) -----	08047050	62
Clear Fork Trinity River at Fort Worth (d) -----	08047500	64
West Fork Trinity River at Fort Worth (d) -----	08048000	66
West Fork Trinity River at Beach Street, Fort Worth (d) (c) (t) -----	08048543	68
Village Creek:		
Village Creek at Everman (d) -----	08048970	70
Lake Arlington at Arlington (e) -----	08049200	72
West Fork Trinity River at Grand Prairie (d) (c) (t) -----	08049500	74
Big Bear Creek at Euless/Grapevine Road near Grapevine (d) (c) -----	08049553	86
Unnamed Tributary Big Bear Creek (Of 19) near Euless (d) (c) -----	08049556	106
Blessing Branch at Euless (d) (c) -----	08049562	126
Trigg Branch at Dallas-Fort Worth Airport near Euless (d) (c) -----	08049565	136
Trigg Branch at Dallas-Fort Worth Airport near Fort Worth (d) (c) -----	08049566	156
Big Bear Creek at State Highway 183 near Euless (d) (c) -----	08049569	176
Mountain Creek near Venus (d) (c) (t) -----	08049580	192
Walnut Creek near Mansfield (d) (c) (t) -----	08049700	198
Joe Pool Lake near Duncanville (e) (c) (t) -----	08049800	202
Mountain Creek above Duncanville (c) (t) -----	08049850	214
Mountain Creek Lake near Grand Prairie (e) -----	08050050	216
Mountain Creek at Grand Prairie (d) -----	08050100	218
Elm Fork Trinity River at Gainesville (d) -----	08050400	220
Isle du Bois Creek:		
Jordan Creek:		
Timber Creek near Collinsville (d) -----	08050800	222
Range Creek near Collinsville (d) -----	08050840	224
Ray Roberts Lake near Pilot Point (e) -----	08051100	226
Clear Creek near Sanger (d) (c) (t) -----	08051500	228
Little Elm Creek near Aubrey (d) -----	08052700	232
Lewisville Lake near Lewisville (e) -----	08052800	234
Elm Fork Trinity River near Lewisville (d) -----	08053000	236
Denton Creek near Justin (d) (c) (t) -----	08053500	238
Grapevine Lake near Grapevine (e) (c) (t) (b) -----	08054500	240
Denton Creek near Grapevine (d) (c) (t) -----	08055000	242
Elm Fork Trinity River near Carrollton (d) (p) -----	08055500	244
Elm Fork Trinity River at Frasier Dam, Dallas (e) -----	08056000	246
Trinity River at Dallas (d) (p) -----	08057000	250
Trinity River at Cedar Crest Boulevard, Dallas (c) (t) -----	08057055	252
White Rock Creek at Greenville Avenue, Dallas (d) (c) (t) -----	08057200	260

GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
TRINITY RIVER BASIN--Continued		
Trinity River:--Continued		
Trinity River below Dallas (d) (c) (t) -----	08057410	268
Prairie Creek at U.S. Highway 175, Dallas (d) -----	08057445	274
East Fork Trinity River at McKinney (d) -----	08058900	276
Sister Grove Creek near Blue Ridge (d) -----	08059400	278
Lavon Lake near Lavon (e) -----	08060500	280
Rowlett Creek near Sachse (d)-----	08061540	282
Lake Ray Hubbard near Forney (e) -----	08061550	284
East Fork Trinity River near Forney (d) -----	08061750	286
East Fork Trinity River near Crandall (d) -----	08062000	288
Trinity River near Rosser (d) (c) (t)-----	08062500	290
Trinity River at Trinidad (d) -----	08062700	302
Cedar Creek:		
Muddy Cedar Creek:		
New Terrell City Lake near Terrell (e) -----	08062730	304
Cedar Creek near Kemp (d) -----	08062800	306
Cedar Creek Reservoir near Trinidad (e) -----	08063010	308
Richland Creek near Irene (c) (t) -----	08063045	310
Navarro Mills Lake near Dawson (e) (c) (t) (b) -----	08063050	312
Richland Creek near Dawson (d) (c) (t) -----	08063100	322
Chambers Creek:		
Waxahachie Creek:		
Lake Waxahachie near Waxahachie (e) -----	08063600	326
Bardwell Lake near Ennis (e) (c) (t) (b)-----	08063700	328
Waxahachie Creek near Bardwell (d) (c) (t)-----	08063800	330
Chambers Creek near Rice (d) (c) (t) -----	08064100	332
Post Oak Creek:		
Halbert Lake near Corsicana (e) -----	08064510	340
Richland-Chambers Reservoir near Kerens (e) -----	08064550	342
Tehuacana Creek near Streetman (d) (c) (t) -----	08064700	346
Trinity River near Oakwood (d)-----	08065000	350
Upper Keechi Creek near Oakwood (d) -----	08065200	352
Big Elkhart Creek:		
Little Elkhart Creek:		
Houston County Lake near Crockett (e) -----	08065330	354
Trinity River near Crockett (d) (c) (t) -----	08065350	356
Bedias Creek near Madisonville (d)-----	08065800	368
Kickapoo Creek near Onalaska (d) -----	08066170	370
Livingston Reservoir near Goodrich (e) (c) (t) -----	08066190	372
Long King Creek at Livingston (d)-----	08066200	382
Trinity River near Goodrich (d) -----	08066250	384
Menard Creek near Rye (d) -----	08066300	386
Trinity River at Romayor (d) -----	08066500	388
Trinity River at Liberty (d) -----	08067000	390
CWA Canal near Dayton (d) -----	08067070	392
Lake Charlotte near Anahuac (e) (c) (t) -----	08067118	394
Trinity River at Wallisville (e) (c) (t) -----	08067252	402

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Texas have been discontinued. Daily stream-flow 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 partial-record stations. A pound sign (#) after a station indicates a temporary discontinuance to redefine ratings. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the title page of this report.

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

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Punta De Agua Creek near Channing (d)	07227448	3,568	1968-73
East Cheyenne Creek Tributary near Channing (e)	07227460	1.60	1965-74
Canadian River at Tascosa (d)	07227470	18,536	1969-77
Tecovas Creek Tributary near Bushland (e)	07227480	1.27	1966-74
Dixon Creek near Borger (d)	07227920	134	1974-89
White Woman Creek Tributary near Darrouzett (e)	07234150	4.03	1966-74
Tierra Blanca Creek above Buffalo Lake near Umbarger (d)	07295500	1,968	1939-54, 1967-73
Prairie Dog Town Fork Red River near Canyon (d)	07297500	3,369	1924-26, 1938-49
Palo Duro Creek near Canyon (e)	07297000	982	1942-54
Middle Tule Draw near Tulia (e)	07297920	313	1967-74
North Tule Draw at Reservoir near Tulia (d)	07298000	189	1939-40, 1941-73
Rock Creek Tributary near Silverton (d)	07298150	13.7	1966-74
Tule Creek near Silverton (d)	07298200	1,150	1964-86
Mulberry Creek near Brice (d)	07299000	534	1949-51
Prairie Dog Town Fork Red River near Lakeview (d)	07299200	6,792	1963-80
Little Red River near Turkey (d)	07299300	139	1968-81
Prairie Dog Town Fork Red River near Estelline (d)	07299500	7,293	1924-25, 1938-47
Prairie Dog Town Fork Red River below Mountain Creek near Estelline (e)	07299505	7,341	1974-77
Prairie Dog Town Fork Red River above Jonah Creek near Estelline (e)	07299510	7,533	1974-77
Jonah Creek at Weir near Estelline (d)	07299512	65.5	1974-82
Jonah Creek below Weir near Estelline (d)	07299514	66.6	1974-76
Jonah Creek at mouth near Estelline (d)	07299516	76	1974-76
Salt Creek near Estelline (d)	07299530	142	1974-79
Red River near Quanah (d)	07299570	8,321	1960-82
North Groesbeck Creek Tributary near Kirkland (d)	07299575	0.16	1966-74
Wanderers Creek at Odell (e)	07299750	199	1949-50, 1952-89
Salt Fork Red River near Clarendon (d)	07299850	457	1960-64
Lelia Lake Creek near Hedley (e)	07299900	86.0	1951-70
Salt Fork Red River near Hedley (e)	07299930	744	1951, 1956-62
Oklahoma Draw Tributary near Hedley (e)	07299940	1.15	1965-74
Sweetwater Creek near Wheeler (e)	07301400	164	1951-64
Doodlebug Creek near Wheeler (e)	07301405	0.19	1967-73
Quitaque Creek near Quitaque (d)	07307500	293	1945-59
North Pease River near Childress (d)	07307600	1,434	1973-79
North Pease River near Kirkland (e)	07307660	1,554	1973-79
Roaring Springs near Roaring Springs (e)	07307700	N/A	1937, 1943-95
Cottonwood Creek Tributary near Afton (e)	07307720	0.68	1967-74
Middle Pease River at Highways 62 and 83 near Paducah (d)	07307750	1,086	1973-79
Middle Pease River near Paducah (d)	07307760	1,123	1980-82
Middle Pease River near Kirkland (e)	07307780	1,250	1973-79
Canal Creek near Crowell (e)	07307950	49.0	1968-70, 1978-79
Pease River near Crowell (d)	07308000	3,037	1924-47
Plum Creek near Vernon (e)	07308220	4.99	1967-74
North Fork Wichita River near Crowell (d)	07311622	591	1971-76
Middle Fork Wichita River near Truscott (d)	07311648	161	1971-76

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
South Fork Wichita River near Guthrie (d)	07311780	239	1952-54, 1956-57 1971-76
South Fork Wichita River at Ross Ranch near Benjamin (d)	07311790	499	1971-79
Wichita River at State Highway 25 near Kamay (d)	07312130	2,182	1996-2000
Beaver Creek Tributary near Crowell (e)	07312140	3.43	1966-74
Wolf Creek near Iowa Park (e)	07312300	8.13	1966-74
North Fork Little Wichita River Tributary near Archer City (e)	07314200	0.10	1966-74
Little Wichita River near Henrietta (d)	07315000	1,037	1953-79
Little Wichita River near Ringgold (d)	07315400	1,350	1959-65
Farmers Creek near Saint Jo (e)	07315550	0.82	1966-74
Mineral Creek near Sadler (d)	07316200	26.0	1968-77
Sandy Creek near Sadler (e)	07316230	24.0	1968-74
Bois D'Arc Creek near Randolph (d)	07332600	72.0	1963-85
Cooper Creek near Bonham (e)	07332602	6.21	1966-74
Sanders Creek near Chicota (d)	07335400	175	1968-86
Little Pine Creek near Kanawha (d)	07336750	75.4	1969-80
Pecan Bayou near Clarksville (d)	07336800	100	1962-77
Red River near DeKalb (d)	07336820	47,348	1967-98
McKinney Bayou near Leary (e)	07336940	3.33	1966-73
Barkman Creek near Leary (e)	07336950	37.0	1958-64
Nelson Branch near Leonard (e)	07342450	0.22	1966-74
South Sulphur River near Commerce (d)	07342470*	189	1980-91
Cuthand Creek near Bogata (d)	07343300	69	1964-74
Dial Branch near Bagwell (e)	07343350	1.00	1966-74
White Oak Creek near Mt. Vernon (e)	07343480	434	1966, 1969-75
White Oak Creek below Talco (d)	07343800	579	1938-50
Buck Creek near Cookville (e)	07343900	0.78	1966-74
Sulphur River near Darden (d)	07344000	2,774	1924-56
Sulphur River near Texarkana (d)	07344210	3,443	1980-85
Big Cypress Creek near Winnsboro (d)	07344482	27.2	1974-92
Dragoo Creek near Mt. Pleasant (e)	07344490	4.27	1967-74
Williamson Creek near Pittsburg (e)	07344600	7.11	1967-74
Boggy Creek near Daingerfield (d)	07345000	72.0	1943-77
Ellison Creek Reservoir near Lone Star (e)	07345500	37.0	1943-62, 1974-89
Cypress Creek Tributary near Jefferson (e)	07346010	0.21	1966-74
Taylor Branch near Smithland (e)	07346072	0.73	1966-74
Big Cypress Creek near Karnack (e)	07346085	2,157	1980-85
Frazier Creek near Linden (d)	07346140	48.0	1965-91
Sabine River near Emory (d)	08017500	888	1952-73
Burnett Branch near Canton (e)	08017700	0.33	1966-74
Grand Saline Creek near Grand Saline (d)	08018200	91.4	1968-73
Burke Creek near Yantis (d)	08018730	33.1	1979-89
Dry Creek near Quitman (e)	08018950	63.6	1968-75
Lake Winnsboro near Winnsboro (e)	08019300	27.1	1962-86
Big Sandy Creek near Hawkins (e)	08019430	196	1980-82
Prairie Creek near Gladewater (d)	08020200	48.9	1968-77
Sabine River near Longview (d)	08020500	2,947	1904-07, 1924-33
Rabbit Creek at Kilgore (d)	08020700	75.8	1964-77
Grace Creek Tributary at Longview (e)	08020800	5.05	1967-74
Mill Creek near Henderson (d)	08020960	20.3	1979-81
Mill Creek near Longview (d)	08020980	47.9	1979-81
Tiawichi Creek near Longview (d)	08020990	62.7	1978-81
Cherokee Bayou near Elderville (d)	08021000	120	1940-49
Sabine River near Tatum (d)	08022000	3,493	1939-78, 1979-82
“ “ “ “ (e)			
Redmon Branch near Hallesville (e)	08022010	0.46	1966-74
Eight Mile Creek near Tatum (e)	08022050	106	1962-71

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Martin Creek near Tatum (d)	08022070	148	1974-96
Martin Creek near Beckville (e)	08022080	192	1962-71
Murvaul Bayou near Gary (d)	08022300	134	1958-83
Socagee Creek near Carthage (d)	08022400	82.6	1962-73
Tenaha Creek near Shelbyville (d)	08023200	97.8	1952-81
Dorsey Branch near Milam (e)	08024290	0.70	1967-74
Patroon Bayou near Milam (e)	08024300	130	1952-54, 1959-63
Sabine River near Milam (d)	08024400	6,508	1924-25, 1939-68
Palo Gaucho Bayou near Hemphill (d)	08024500	123	1952-65
Housen Bayou near Yellowpine (e)	08025250	92.1	1952-54, 1957, 1959-63
Sandy Creek near Yellowpine (e)	08025300	135	1952-54, 1957, 1959-63
Mill Creek near Burkeville (d)	08025307	18.0	1974-79
Little Cow Creek below McGraw Creek near Burkeville (e)	08026500	112	1952-58
Moore Branch near Newton (e)	08028505	3.77	1967-74
Nichols Creek near Buna (e)	08029750	54.4	1959-64
Cypress Creek near Buna (d)	08030000	69.2	1952-83
Adams Bayou Tributary near Deweyville (e)	08030700	12.4	1966-74
Bethlehem Branch near Van (e)	08031100	1.09	1966-74
Kickapoo Creek near Brownsboro (d)	08031200	232	1962-89
Neches River near Reese (d)	08031500	851	1924-27
Hurricane Creek Tributary near Palestine (e)	08032100	0.39	1966-74
One Arm Creek near Maydelle (e)	08032250	6.01	1967-74
Squirrel Creek near Elkhart (e)	08032300	1.57	1967-74
Neches River near Alto (d)	08032500	1,945	1944-79
Piney Creek Tributary near Pennington (e)	08033250	1.17	1967-74
Piney Creek near Groveton (d)	08033300	79.0	1962-89
Shawnee Creek Tributary near Huntington (e)	08033450	0.52	1966-74
Greenwood Creek Tributary near Colmesneil (e)	08033480	0.15	1966-74
Bowles Creek near Selman City (e)	08033600	14.5	1968-85
Striker Creek near Summerfield (d)	08033700	146	1941-49
Striker Creek Reservoir near New Salem (e)	08033800	148	1941-49
East Fork Angelina River near Cushing (d)	08033900	158	1964-89
Mud Creek at Ponta (d)	08035000	475	1924-27
Angelina River near Lufkin (d)	08037000	1,600	1924-34, 1939-79
Bayou Lanana at Nacogdoches (d)	08037050	31.3	1965-86, 1988-93
Gingham Branch near Mt. Enterprise (e)	08037300	0.90	1967-74
Arenoso Creek near San Augustine (d)	08037500	75.3	1938-40
Angelina River near Zavalla (d)	08038500	2,892	1952-65
Ayish Bayou at San Augustine (d)	08039000	15.8	1924-25
Angelina River at Ebenezer (d)	08039500	3,486	1928-51, 1967-73
Little Sandy Creek Tributary near Jasper (e)	08039900	0.46	1967-74
Drakes Branch near Spurger (e)	08041400	5.03	1967-74
West Fork Double Bayou near Anahuac (e)	08042550	6.25	1967-74
North Creek SWS No. 28-A near Jermyn (e)	08042650	6.82	1972-80
North Creek near Jacksboro (d)	08042700	21.6	1956-80
Beans Creek at Wizard Wells (e)	08042900	29.6	1993-95
West Fork Trinity River at US Highway 380 at Bridgeport (d)	08043100	1,113	1984-89
West Fork Trinity River at Bridgeport (d)	08043500	1,147	1908-30
Big Sandy Creek near Bridgeport (d)	08044000	333	1937-95
Garrett Creek near Paradise (e)	08044135	52.5	1992-95
Salt Creek near Paradise (e)	08044140	52.7	1992-95

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Walker Creek near Boyd (e)	08044200	2.95	1965-74
West Fork Trinity River at Lake Worth, Fort Worth (d)	08045500	2,069	1924-34
Clear Fork Trinity River near Aledo (d)	08046000	251	1947-75
Marine Creek at Fort Worth (d)	08048500	16.8	1950-58
Sycamore Creek at I.H. 35W, Fort Worth (d)	08048520	17.7	1970-76
Sycamore Creek Trib. above Seminary Street Shopping Center, Fort Worth (d)	08048530	0.97	1970-76
Sycamore Creek Trib. at I.H. 35W, Fort Worth (d)	08048540	1.35	1970-76
Dry Branch at Fain Street at Fort Worth (d)	08048600	2.15	1969-76
Big Fossil Creek at Haltom City (d)	08048800*	52.8	1959-73
Little Fossil Creek at I.H. 820, Fort Worth (e)	08048820	5.64	1969-73
Little Fossil Creek at Mesquite Street, Fort Worth (d)	08048850	12.3	1969-76
Deer Creek Tributary near Crowley (e)	08048900	5.86	1967-74
Village Creek at Kennedale (d)	08048980	100	1986-89
Village Creek near Handley (d)	08049000	126	1925-30
Big Bear Creek near Grapevine (d)	08049550	29.6	1967-79
Trigg Branch at DFW Airport near Euless (d)	08049565	1.73	1983-87
Mountain Creek near Cedar Hill (d)	08049600	119	1961-84
Mountain Creek near Duncanville (e)	08049900	225	1971-90
Mountain Creek near Grand Prairie (d)	08050000	273	1925-33
Elm Fork Trinity River SWS 6-O near Muenster (e)	08050200	0.77	1957-73
Elm Fork Trinity River near Muenster (d)	08050300	46.0	1957-73
Elm Fork Trinity River near Sanger (d)	08050500	381	1949-85
Isle Du Bois Creek near Pilot Point (d)	08051000	266	1949-85
Elm Fork Trinity River near Pilot Point (d)	08051130	692	1985-92
Elm Fork Trinity River above Aubrey (e)	08051190	684	1981-89
Elm Fork Trinity River near Denton (d)	08052000	1,084	1924-27
Lake Dallas near Lake Dallas (e)	08052500	1,165	1929-57
Little Elm Creek SWS #10 near Gunter (e)	08052630	2.10	1966-72
Little Elm Creek near Celina (d)	08052650	46.7	1966-76
Hickory Creek at Denton (d)	08052780	129	1985-87
Indian Creek at Hebron Parkway at Carrollton (d)	08053010	14.7	1987-90
Furneaux Creek at Josey Lane at Carrollton (d)	08053030	4.10	1987-90
Hutton Branch at Broadway at Carrollton (e)	08053090	9.10	1987-90
Jones Valley Creek Tributary near Forestburg (e)	08053100	1.70	1966-74
Denton Creek near Roanoke (d)	08054000	621	1924-28, 1939-55
Gamble Branch near Argyle (e)	08054200	0.50	1965-74
Joe's Creek at Royal Lane, Dallas (e)	08055580	1.94	1973-78
Joes Creek near Dallas (e)	08055600	7.51	1964-79
Bachman Branch at Dallas (d)	08055700	10.0	1964-79
Turtle Creek at Dallas (d)	08056500	7.98	1952-80, 1984-91
Coombs Creek at Sylvan Avenue, Dallas (e)	08057020	4.75	1965-78
Cedar Creek at Bonnie View Road, Dallas (e)	08057050	9.42	1965-78
White Rock Creek at Keller Springs Road, Dallas (d)	08057100	29.4	1961-79
McKamey Creek at Preston Road, Dallas (e)	08057120	6.77	1962-78
Rush Branch at Arapaho Road, Dallas (e)	08057130	1.22	1973-78
Cottonwood Creek at Forest Lane, Dallas (e)	08057140	8.50	1962-78
Floyd Branch at Forrest Lane, Dallas (e)	08057160	4.17	1962-78
White Rock Creek at White Rock Lake, Dallas (d)	08057300	100	1963-79
Ash Creek at Highland Road, Dallas (e)	08057320	6.92	1963-78
Forney Creek at Lawnview Avenue, Dallas (e)	08057340	1.84	1963-72
White Rock Creek at Scyene Road, Dallas (d)	08057400	122	1963-79
Elm Creek at Seco Boulevard, Dallas (e)	08057415	1.25	1973-78
Fivemile Creek at US Highway 77 West, Dallas (e)	08057420	14.3	1965-78
Woody Branch at US Highway 77 West, Dallas (e)	08057425	10.3	1965-78
Fivemile Creek at Lancaster Road, Dallas (e)	08057430	37.9	1965-78
Newton Creek at Interstate Highway 635, Dallas (e)	08057435	5.91	1974-78
Whites Branch at Interstate Highway 635, Dallas (e)	08057440	2.53	1974-78
Trinity River near Wilmer (d)	08057448*	6,387	1998-2002
Tenmile Creek at State Highway 342 at Lancaster (d)	08057450	52.8	1970-79

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Honey Creek SWS #11 near McKinney (e)	08057500	2.14	1952-73
Honey Creek SWS #12 near McKinney (e)	08058000	1.26	1952-77
Honey Creek near McKinney (d)	08058500	39	1951-73
East Fork Trinity River near McKinney (d)	08059000	190	1949-75
Arls Branch near Westminster (e)	08059200	0.52	1965-74
Sister Grove Creek near Princeton (d)	08059500	113	1949-75
East Fork Trinity River above Pilot Grove near Lavon (d)	08060000	324	1949-53
East Fork Trinity River near Lavon (d)	08061000	773	1954-89
East Fork Trinity River near Rockwall (d)	08061500	840	1924-54
Duck Creek at Buckingham Road, Garland (e)	08061620	8.05	1969-76
Duck Creek near Garland (d)	08061700	31.6	1958-93
South Mesquite Creek at State Highway 352, Mesquite (e)	08061920	13.4	1969-76
South Mesquite Creek at Mercury Road, North Mesquite (d)	08061950	23.0	1969-79
Cedar Creek Reservoir Spillway Outflow near Trinidad (d)	08062650	1,007	1966-82
Bachelor Creek near Terrell (e)	08062850	13.0	1967-74
Kings Creek near Kaufman (d)	08062900	233	1963-87
Lacey Fork near Mabank (d)	08062980	118	1983-84
Cedar Creek near Mabank (d)	08063000	733	1939-66
South Twin Creek near Eustace (d)	08063003	27.4	1983-84
Red Oak Branch near Eustace (e)	08063005	0.90	1966-74
Cedar Creek at Trinidad (d)	08063020	1,011	1965-71
Briar Creek Tributary near Corsicana (e)	08063180	0.72	1966-74
Pin Oak Creek near Hubbard (d)	08063200	17.6	1956-72
Richland Creek near Richland (d)	08063500	734	1939-88
Alvarado Branch near Alvarado (e)	08063550	0.84	1966-74
Kings Branch near Reagor Springs (e)	08063620	0.62	1966-74
Chambers Creek near Corsicana (d)	08064500	963	1939-84
Richland Creek near Fairfield (d)	08064600	1,957	1972-83
Saline Branch Tributary near Bethel (e)	08064630	0.22	1967-74
Catfish Creek near Tennessee Colony (d)	08064800	207	1962-89
Mayes Branch near Latexo (e)	08065320	4.26	1967-74
Trinity River near Midway (d)	08065500	14,450	1939-71
Caney Creek near Madisonville (d)	08065700	112	1963-77
Nelson Creek near Riverside (e)	08065950	86.4	1949, 1965, 1970-74
Harmon Creek near Huntsville (e)	08065975	89.2	1973-81
West Carolina Creek near Oakhurst (e)	08066050	15.2	1949, 1966-73
White Rock Creek near Trinity (e)	08066100	222	1974-85
White Rock Creek at Trilady Park near Trinity (e)	08066130	228	1966-74
Tantaboque Creek near Trinity (e)	08066140	61.3	1966-73
Caney Creek near Groveton (e)	08066145	41.4	1966-73
Brushy Creek near Onalaska (d)	08066150	29.1	1966-70
Rocky Creek near Onalaska (e)	08066180	40.6	1966-73
Livingston Reservoir outflow weir near Goodrich (d)	08066191	16,583	1969-94
Long King Creek near Goodrich (d)	08066210	220	1972-81
Bluff Creek Tributary near Livingston (e)	08066280	0.62	1965-74
Big Creek near Shepherd(e)	08066400	38.8	1966-89
Gaylor Creek near Moss Hill (e)	08066800	32.3	1966-73
Devers Canal near Liberty (d)	08067080	N/A	1972-82
Goose Creek near McNair (e)	08067520	6.70	1963-65,
Welch Branch near Huntsville (e)	08067550	2.35	1965-74
Lake Conroe near Montgomery (e)	08067580	445	1973-76
Lake Conroe at Outflow Weir near Conroe (d)	08067610	445	1974, 1977-89
Caney Creek near Dobbin (d)	08067700	40.4	1963-65
Landrum Creek Tributary near Montgomery (e)	08067750	0.13	1965-74
Lake Creek near Conroe (e)	08067900*	291	1969-89
West Fork San Jacinto River near Porter (e)	08068100	970	1970-76

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Mill Creek Tributary near Dobbin (e)	08068300	4.07	1967-73
Swale No. 8 at Woodlands (e)	08068438	0.55	1975-76, 1980-88
Spring Creek at Spring (d)	08068520	419	1975-95
Spring Creek near Humble (e)	08068600	435	1971-76
Cypress Creek at Sharp Road near Hockley (d)	08068700*	80.7	1975-85
Cypress Creek near Cypress (e)	08068750	138	1971-76
Cypress Creek at Stuebner-Airline Road near Westfield (d)	08068900*	248	1982-87
Cypress Creek near Humble (e)	08069200	319	1971-76
West Fork San Jacinto River near Humble (d)	08069500	1,741	1929-54
Bear Creek near Cleveland (e)	08069850	1.46	1967-73
Caney Creek near New Caney (e)	08070600	178	1970-76
Peach Creek near New Caney (e)	08071100	155	1970-76
Tarkington Bayou near Dayton (e)	08071200	142	1964-76
Luce Bayou near Huffman (e)	08071300	226	1971-76
San Jacinto River near Huffman (d)	08071500	2,800	1937-53
Buffalo Bayou near Clodine (e)	08072400	84.2	1974-85
Bettina Street Ditch at Houston (e)	08073630	1.37	1979-85
Stony Brook Street Ditch at Houston (e)	08073750	0.50	1967-72
Bering Ditch at Woodway Drive, Houston (e)	08073800	2.77	1965-73
Cole Creek at Guhn Road at Houston (e)	08074100	7.05	1964-72
Bingle Road Storm Sewer at Houston (e)	08074145	0.21	1980-88
Cole Creek at Deihl Road at Houston (d)	08074150*	7.50	1964-86
Brickhouse Gully at Clarblak Street at Houston (e)	08074200	2.56	1965-83
Brickhouse Gully at Costa Rica Street at Houston (d)	08074250*	11.4	1964-81
Lazybrook Street Storm Sewer, Houston (e)	08074400	0.13	1978-88
Buffalo Bayou at Main St., Houston (d)	08074600	339	1962-94
Buffalo Bayou at McKee Street, Houston (d)	08074610	454	1992-2000
Buffalo Bayou at 69th Street, Houston (e)	08074700	463	1961-86
Brays Bayou at Addicks-Clodine Rd., Houston (e)	08074750	0.87	1974-77
Brays Bayou at Alief Road, Alief (e)	08074760*	12.9	1977-85
Keegans Bayou at Keegans Road near Houston (e)	08074780*	8.63	1964-71
Keegans Bayou at Roark Road near Houston (d)	08074800*	12.7	1964-85
Bintliff Ditch at Bissonnet Street, Houston (e)	08074850	4.29	1968-82
Willow Waterhole Bayou at Landsdowne Street, Houston (e)	08074900	3.81	1965-72
Hummingbird Street Ditch at Mullins Street, Houston (e)	08074910	0.32	1979-84
Brays Bayou at Scott Street, Houston (e)	08075100	106	1971-81
Sims Bayou at Carlsbad Street, Houston (e)	08075300	3.81	1964-72
Sims Bayou at MLK Blvd., Houston (e)	08075470	48.4	1978-89
Sims Bayou at Houston (d)	08075500*	63.0	1953-95
Berry Bayou at Gilpin Street, Houston (e)	08075550	2.87	1965-84
Berry Bayou Tributary at Globe Street, Houston (e)	08075600	1.58	1965-72
Berry Bayou at Galveston Road, Houston (e)	08075700	4.86	1965-72
Hunting Bayou Tributary at Cavalcade Street, Houston (e)	08075750	1.20	1965-72
Hunting Bayou at Falls Street, Houston (e)	08075760	2.75	1964-84
Halls Bayou at Deertrail Street at Houston (e)	08076200	8.69	1965-84
Carpenters Bayou near Channelview (e)	08076900	25.8	1964, 1971-93
Clear Creek near Pearland (d)	08077000	38.8	1944-45, 1946-60, 1963-94
Clear Creek Tributary at Hall Road, Houston (e)	08077100	1.31	1965-86
Clear Creek at Friendswood (d)	08077540	99.6	1994-97
Cowart Creek near Friendswood (e)	08077550	18.0	1965-74
Clear Creek near Friendswood (e)	08077600*	122	1966-94
Armand Bayou near Genoa (e)	08077620	18.2	1968, 1971-73
Highland Bayou at Hitchcock (e)	08077700	15.6	1963-82
Flores Bayou near Danbury (e)	08078700	23.3	1967-72
Oyster Creek near Angleton (d)	08079000	171	1945-80
North Fork Double Mountain Fork Brazos River at Lubbock (d)	08079500	5,300	1940-49,

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
North Fork Double Mountain Fork Brazos River above Buffalo Springs nr Lubbock (e)	08079530	5,578	1952-54, 1957, 1962, 1967-76
Buffalo Springs Lake near Lubbock (e)	08079550	236	1967-77
Barnum Springs Draw near Post (e)	08079570	4.99	1965-73
North Fork Double Mountain Fork Brazos River near Post (d)	08079575	5,790	1984-93
Rattlesnake Creek near Post (e)	08079580	2.77	1966-74
Double Mountain Fork Brazos River near Rotan (d)	08080000	8,536	1950-51
Guest-Flowers Draw near Aspermont (e)	08080510	3.02	1965-74
McDonald Creek near Post (d)	08080540	103	1966-78
Callahan Draw near Lockney (e)	08080750	37.5	1966-77
White River near Crosbytown (e)	08080800	529	1951-64
White River below falls near Crosbytown (e)	08080900	2,683	1951-64
Salt Fork Brazos River at Farm Road 1081 near Clairemont (e)	08080916	3,617	1968-77
Red Mud Creek near Spur (e)	08080918	2,547	1967-74
Salt Fork Brazos River at State Highway 208 near Clairemont (e)	08080940	3,839	1968-77
Duck Creek near Girard (d)	08080950	431	1965-89
Salt Fork Brazos River at U.S. Highway 380 near Jayton (e)	08080959	4,431	1968-77
Salt Fork Brazos River near Peacock (d)	08081000	4,619	1950-51, 1965-86
Short Croton Creek at mouth near Jayton (e)	08081050	18.1	1959-82
Croton Creek below Short Croton Creek near Jayton (e)	08081100	250	1959-82
Croton Creek near Jayton (d)	08081200	290	1959-86
Salt Croton Creek at Weir D near Aspermont (e)	08081400	55.5	1957-76
Haystack Creek at Weir E near Aspermont (e)	08081450	15.1	1957-77
Salt Croton Creek near Aspermont (d)	08081500	64.3	1957-77
Stinking Creek near Aspermont (d)	08082100	88.8	1966-83
North Croton Creek near Knox City (d)	08082180	251	1965-86
North Elm Creek near Throckmorton (e)	08082900	3.58	1965-77
Elm Creek near Profitt (e)	08082950	275	1969-85
Brazos River near Graham (d)	08083000	16,830	1916-20
Clear Fork Brazos River at Hawley (d)	08083240	1,416	1968-89
Mulberry Creek near Hawley (d)	08083245	205	1968-89
Elm Creek near Abilene (d)	08083300	133	1964-79
Little Elm Creek near Abilene (d)	08083400	39.1	1964-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene (d)	08083470	119	1971-84
Paint Creek near Haskell (d)	08085000	914	1950-51
Humphries Draw near Haskell (e)	08085300	3.51	1965-77
Clear Fork Brazos River at Crystall Falls (d)	08086000	4,323	1922-29
Hubbard Creek near Sedwick (d)	08086015	128	1964-66
Hubbard Creek at Highway 380 near Moran (e)	08086020	152	1963-76
Deep Creek near Putnam (e)	08086030	33.8	1963-66
Brushy Creek near Putnam (e)	08086040	27.6	1963-66
Mexia Creek near Putnam (e)	08086045	67.0	1963-66
Hubbard Creek near Albany (d)	08086100	454	1962-75
Salt Prong Hubbard Creek below Lake McCarty near Albany (e)	08086110	45.5	1963-66
Salt Prong Hubbard Creek at U.S. 380 near Albany (d)	08086120	65.2	1964-68
Cook Creek near Albany (e)	08086130	11.3	1963-76
North Fork Hubbard Creek near Albany (d)	08086150	39.3	1963-90
Salt Prong Hubbard Creek near Albany (d)	08086200	115	1962-63
Snailum Creek near Albany (d)	08086210	22.9	1964-66
Big Sandy Creek near Eolian (e)	08086220	91.4	1963-76
Battle Creek near Putnam (e)	08086230	32.0	1963-66
Battle Creek near Moran (d)	08086235	108	1967-68
Battle Creek near Eolian (e)	08086240	137	1963-66
Pecan Creek at FM 1853 near Eolian (e)	08086250	6.95	1963-66
Pecan Creek near Eolian (d)	08086260	26.4	1967-75
Big Sandy Creek near Breckenridge (e)	08086300	288	1962-75
Hubbard Creek near Breckenridge (d)	08086500	1,089	1955-86

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Clear Fork Brazos River near Crystal Falls (e)	08087000	5,658	1916-20, 1928-51
Clear Fork Brazos River near Eliasville (d)	08087300	5,697	1916-20, 1924-25, 1928-51, 1962-82
Salt Creek at Olney (d)	08088100	11.8	1958-77
Salt Creek near Newcastle (d)	08088200	120	1958-60
Briar Creek near Graham (d)	08088300	24.2	1958-89
Brazos River at Farm Road 1287 near Graham (e)	08088420	13,432	1970-77
Big Cedar Creek near Ivan (d)	08088450	97	1965-89
Brazos River at Morris Sheppard Dam near Graford (d)	08088600	23,596	1990-94
Elm Creek Tributary near Graford (e)	08089100	1.10	1965-74
Palo Pinto Creek near Santo (d)	08090500	573	1925, 1951-76
Cidwell Branch near Granbury (e)	08090850	3.37	1966-73
Morris Branch near Bluff Dale (e)	08091200	0.06	1965-73
Panther Branch near Tolar (e)	08091700	7.82	1966-74
Nolan River at Blum (d)	08092000*	282	1924-87
Brazos River near Whitney (d)	08093000	27,214	1939-74
Bond Branch near Hillsboro (e)	08093200	0.36	1965-74
Hackberry Creek at Hillsboro (d)	08093250	57.9	1980-92
Hackberry Creek below Hillsboro (e)	08093260	86.8	1980-92
Cobb Creek near Abbott (d)	08093400	12.40	1967-79
Aquilla Creek near Aquilla (d)	08093500#	308	1939-2001
Aquilla Creek at RR bridge near Aquilla (e)	08093530	345	1976-85
Aquilla Creek at Farm Road 2114 near Aquilla (e)	08093540	351	1976-85
Aquilla Creek at Farm Road 1858 near Ross (e)	08093560	392	1976-85
Aquilla Creek at Farm Road 933 near Ross (e)	08093580	397	1976-85
North Bosque River at Stephenville (d)	08093700	95.9	1958-79
Green Creek SWS #1 near Dublin (d)	08094000	4.19	1955-77
Green Creek near Alexander (d)	08094500	45.4	1958-73
South Bosque River near McGregor (e)	08095220	15.9	1967-73
Willow Branch at McGregor (e)	08095250	2.52	1966-73
Middle Bosque River near McGregor (d)	08095300*	182	1959-86
Hog Creek near Crawford (d)	08095400*	78.0	1959-86
South Bosque River near Speegleville (d)	08095500	386	1924-30
Bosque River near Waco (d)	08095600*	1,656	1960-82
Box Branch at Robinson (e)	08096550	0.34	1965-73
Cow Bayou SWS No. 4 (inflow) near Bruceville (e)	08096800	5.04	1958-75
Cow Bayou at Mooreville (d)	08097000	83.5	1958-75
Brazos River near Marlin (d)	08097500	30,211	1939-51
Deer Creek at Chilton (d)	08098000	84.5	1934-36
Leon River near De Leon (d)	08099100*	479	1960-87
Sabana River Tributary near De Leon (e)	08099350	0.48	1966-74
Leon River near Hasse (d)	08099500	1,261	1939-91
Eidson Creek near Hamilton (e)	08100100	2.91	1965-73
Bermuda Branch near Gatesville (e)	08100400	0.50	1966-73
Hoffman Branch near Hamilton (e)	08100800	5.56	1966-74
Cowhouse Creek near Killeen (d)	08101500	667	1925, 1939-42
Nolan Creek at Belton (d)	08102600	112	1974-82
School Branch near Lampasas (e)	08102900	0.90	1966-73
Fleece Branch near Lampasas (e)	08103450	1.08	1965-74
Lampasas River at Youngsfort (d)	08104000	1,240	1924-80
Salado Creek above Salado (e)	08104290	134	1985-88
Salado Creek below Salado Springs at Salado (d)	08104310	136	1985-87
N. Fork San Gabriel River upstream from State Highway 418 at Georgetown (e)	08104795*	271	1985-88
North Fork San Gabriel River at Georgetown (d)	08104800	271	1964-68
South Fork San Gabriel River near Bertram (e)	08104850	8.4	1967-74
San Gabriel River at Georgetown (d)	08105000*	405	1924-25,

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
			1934-73, 1984-87
Berry Creek at State Hwy. 971 near Georgetown (d)	08105200*	117	1985-87
San Gabriel River near Weir (d)	08105300*	563	1977-90
San Gabriel River near Circleville (d)	08105400	599	1924-34, 1967-77
Avery Branch near Taylor (e)	08105900	3.52	1966-73
Brushy Creek at Coupland (d)	08106000	205	1924-26
Brushy Creek near Rockdale (d)	08106300	505	1967-80
San Gabriel River near Rockdale (d)	08106310	1,359	1975-92
Big Elm Creek near Temple (d)	08107000	74.7	1934-36
Big Elm Creek near Buckholts (d)	08107500	171	1934-36
North Elm Creek near Ben Arnold (d)	08108000	32.2	1935-36
North Elm Creek near Cameron (d)	08108200	44.8	1963-73
Little Branch near Bryan (e)	08108800	0.14	1966-73
Brazos River near Bryan (d)	08109000	39,515	1899-1903, 1918-92
Brazos River near College Station (d)	08109500	39,599	1899-1902, 1918-25
Yegua Creek near Somerville (d)	08110000	1,009	1924-92
Brazos River at Washington (e)	08110200	41,192	1966-95
Plummers Creek at Mexia (e)	08110350	4.42	1965-73
Navasota River near Groesbeck (d)	08110400	311	1965-79
Navasota River near Bryan (d)	08111000	1,454	1951-94, 1994-97
Navasota River near College Station (d)	08111010	1,809	1977-85
Burton Creek at Villa Maria Road, Bryan (d)	08111025	1.33	1968-70
Hudson Creek near Bryan (d)	08111050	1.94	1968-70
Winkleman Creek near Brenham (e)	08111100	0.75	1965-73
Piney Creek near Bellville (e)	08111600	30.7	1948, 1955, 1958, 1964-89
West Fork Mill Creek near Industry (e)	08111650	15.3	1964-89
Brazos River near San Felipe (d)	08112000	44,666	1939-57
Brazos River near Wallis (e)	08112200	44,684	1974-75
Brazos River Authority Canal A near Fulshear (d)	08112500	N/A	1932-54, 1958-73
Richmond Irrigation Co. Canal near Richmond (d)	08113500	N/A	1932-54, 1956-78
Brazos River near Juliff (d)	08114500	45,189	1949-69
Seabourne Creek near Rosenberg (e)	08114900	5.78	1968-74
Fairchild Creek near Needville (d)	08115500	26.2	1947-55
Big Creek near Guy (d)	08116000	116	1947-50
Dry Creek near Rosenberg (d)	08116400	8.65	1959-79
Dry Creek near Richmond (d)	08116500	12.2	1947-50, 1957-58
San Bernard River near West Columbia (e)	08117700	766	1949, 1971-77
Mound Creek Tributary at Guy (e)	08117800	1.48	1966-73
Big Boggy Creek near Wadsworth (d)	08117900	10.3	1970-77
Bull Creek near Ira (d)	08118500	26.3	1948-54, 1959-62
Colorado River below Bull Creek near Ira (e)	08118600	3,604	1975-78
Bluff Creek near Ira (d)	08119000	42.60	1948-65
Bluff Creek at mouth near Ira (e)	08119100	44.1	1975-78
Colorado River near Ira (d)	08119500	3,483	1948-52, 1959-89
Colorado River near Cuthbert (d)	08120700*	3,912	1965-2002
Morgan Creek near Westbrook (d)	08121500	273	1954-63
Graze Creek near Westbrook (d)	08122000	21.7	1954-59

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Morgan Creek near Colorado City (d)	08122500	313	1947-49
Champlin Creek near Colorado City (d)	08123500	198	1948-59
Sulphur Springs Draw near Wellman (e)	08123620	41.8	1966-74
Beals Creek above Big Spring (d)	08123650	9,319	1959-79
Beals Creek at Big Spring (d)	08123700	9,341	1957-59
Beals Creek near Coahoma (d)	08123720	9,383	1983-88
Coahoma Draw Tributary near Big Spring (e)	08123750	2.38	1966-74
Bull Creek Tributary near Forsan (e)	08123760	0.40	1966-74
Colorado River near Silver (d)	08123900	14,997	1957-70
Bitter Creek near Silver (e)	08123920	4.30	1967-74
Salt Creek Tributary near Hylton (e)	08125450	0.25	1966-74
Fish Creek Tributary near Hylton (e)	08126300	0.25	1966-71
Colorado River at Ballinger (d)	08126500	16,413	1907-79
Dry Creek near Christoval (e)	08127100	0.79	1965-73
South Concho Irrigation Co. Canal at Christoval (d)	08127500	N/A	1940-83
Middle Concho River near Tankersley (d)	08128500	2,653	1930-61
Spring Creek above Tankersley (d)	08129300*	425	1961-95
Dove Creek Springs near Knickerbocker (d)	08129500*	N/A	1944-58
Dove Creek at Knickerbocker (d)	08130500*	226	1961-95
Spring Creek near Tankersley (d)	08131000	699	1930-60
South Concho River above Pecan Creek near San Angelo (e)	08131300	470	1963-84
Tom Green Co. WCID No. 1 Canal near San Angelo (d)	08131600	N/A	1963-81
South Concho River at San Angelo (d)	08132500	3,866	1932-53
Quarry Creek near Sterling City (e)	08133300	3.25	1965-73
North Concho River at Sterling City (d)	08133500*	588	1939-87
Broome Creek near Broome (e)	08133800	0.29	1965-73
Nolke Station Creek near San Angelo (e)	08134300	0.59	1965-73
Gravel Pit Creek near San Angelo (e)	08134400	0.19	1965-74
North Concho River at San Angelo (d)	08135000	1,525	1916-31, 1947-90
Concho River near Veribest (e)	08136150	5,541	1970-74, 1998-2000
Puddle Creek near Veribest (e)	08136200	12.0	1966-73
Frog Pond Creek near Eden (e)	08136300	1.96	1967-73
Mukewater Creek SWS No. 10A near Trickham (e)	08136900	21.8	1965-72
Mukewater Creek SWS No. 9 near Trickham (e)	08137000	4.02	1961-72
Mukewater Creek at Trickham (d)	08137500	70.0	1951-73
Deep Creek SWS No. 3 near Placid (e)	08139000	3.42	1954-60
Deep Creek near Mercury (d)	08139500	43.9	1954-73
Deep Creek SWS No. 8 near Mercury (e)	08140000	5.41	1952-71
Dry Prong Deep Creek near Mercury (d)	08140500	8.31	1951-71
Pecan Bayou near Cross Cut (d)	08140700	532	1968-79
Jim Ned Creek near Coleman (d)	08140800	333	1965-80
McCall Branch near Coleman (e)	08141100	2.17	1966-73
Hords Creek near Valera (d)	08141500	54.2	1947-91
Hords Creek at Coleman (d)	08142000	107	1941-70
Brown County WID No. 1 Canal near Brownwood (d)	08142500	N/A	1950-83
Pecan Bayou at Brownwood (d)	08143500	1,660	1917-18, 1924-83
Brown Creek Tributary near Goldthwaite (e)	08143700	2.48	1966-73
Noyes Canal at Menard (d)	08144000	N/A	1924-83
Brady Creek near Eden (d)	08144800	101	1962-85
Brady Creek Tributary near Brady (e)	08145100	4.05	1967-73
Lake Buchanan near Burnet (e)	08148000	31,910	1937-90
Llano River Tributary near London (e)	08150200	0.58	1966-73
Stone Creek Tributary near Art (e)	08150900	0.40	1966-73
Llano River near Castell (d)	08151000	3,747	1924-39
Johnson Creek near Valley Spring (e)	08151300	5.66	1967-73
Little Flatrock Creek near Marble Falls (e)	08152700	3.20	1966-74
Spring Creek near Fredericksburg (e)	08152800	15.2	1967-73
Pedernales River at Stonewall (d)	08153000	647	1924-34

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Cane Branch at Stonewall (e)	08153100	1.37	1965-71
Pedernales River near Spicewood (d)	08154000	1,294	1924-39
Colorado River below Mansfield Dam, Austin (d)	08154510	38,755	1975-90
West Bull Creek at Loop 360 near Austin (e)	08154750	6.77	1976-82
Bull Creek at FM 2222, Austin (e)	08154760	30.4	1975-78
Bee Creek at West Lake Drive near Austin (e)	08154950	3.28	1980-82
Barton Creek near Camp Craft Road near Austin (d)	08155260	109	1982-89
Skunk Hollow Creek below Pond 1 at Austin (e)	08155370	0.12	1982-84
West Bouldin Creek at Riverside Drive, Austin (e)	08155550	3.12	1976-82
Shoal Creek at Steck Avenue, Austin (e)	08156650	2.79	1975-82
Shoal Creek at Northwest Park at Austin (d)	08156700	6.52	1975-84
Shoal Creek at White Rick Drive, Austin (e)	08156750	6.97	1975-82
Waller Creek at 38th Street, Austin (d)	08157000	2.31	1955-80
Waller Creek at 23rd Street, Austin (d)	08157500	4.13	1955-80
East Bouldin Creek at South 1st Street, Austin (d)	08157600	2.40	1997-2001
Blunn Creek near Little Stacey Park, Austin	08157700	1.20	1997-2001
Boggy Creek at US Highway 183, Austin	08158050	13.1	1977-86
			1994-2001
Walnut Creek at Farm-Market 1325 near Austin (e)	08158100	12.6	1975-88
Walnut Creek at Dessau Road, Austin (e)	08158200	26.2	1975-88
Ferguson Branch at Springdale Road, Austin (e)	08158300	1.63	1978-82
Little Walnut Creek at Georgian Drive, Austin (e)	08158380	5.22	1975-88
Little Walnut Creek at IH 35, Austin (e)	08158400	5.57	1975-82
Little Walnut Creek at Manor Road, Austin (e)	08158500	12.1	1975-82
Walnut Creek at Southern Pacific Railroad bridge, Austin (e)	08158640	53.5	1975-86
Onion Creek at Buda (e)	08158800	166	1961-78,
“ “ “ (d)			1979-83,
			1992-95
Bear Creek at Farm-Market Road 1626 near Manchaca (e)	08158820	24.0	1979-83
Little Bear Creek at Farm-Market Road 1626 near Manchaca (d)	08158825	21.0	1979
Slaughter Creek at FM 2304 near Austin (e)	08158860	23.1	1978-83
Boggy Creek (South) at Circle S Road, Austin (e)	08158880	3.58	1976-88
Fox Branch near Oak Hill (e)	08158900	0.12	1965-73
Williamson Creek at Oak Hill (d)	08158920	6.30	1978-93
Williamson Creek at Jimmy Clay Road, Austin (d)	08158970	27.6	1975-85
Onion Creek below Del Valle (e)	08159100	339	1962-75
Wilbarger Creek near Pflugerville (d)	08159150	4.61	1963-80
Big Sandy Creek near McDade (d)	08159165	38.7	1979-85
Big Sandy Creek near Elgin (d)	08159170	63.8	1979-85
Dogwood Creek near McDade (e)	08159180	0.53	1980-85
Dogwood Creek at Highway 95 near McDade (e)	08159185	5.03	1980-85
Reeds Creek near Bastrop (e)	08159450	5.22	1967-73
Dry Creek at Buescher Lake near Smithville (d)	08160000	1.48	1940-66
Colorado River at La Grange (d)	08160500	40,430	1939-55
Colorado River above Columbus (d)	08160700	41,403	1983-85
Dry Branch Tributary near Altair (e)	08161580	0.68	1966-73
Little Robin Slough near Matagorda (e)	08162530	5.30	1969
Cashs Creek near Blessing (e)	08162650	14.8	1969-77
East Carancahua Creek near Blessing (e)	08162700	81.2	1968,
			1970-83
West Carancahua Creek near Laward (e)	08162800	57.1	1970-76
Navidad River near Speaks (d)	08164350	437	1982-89,
			1995-2000
Navidad River at Morales (d)	08164370	549	1995-2000
Navidad River near Ganado (d)	08164500	1,062	1939-80
Guadalupe River above Kerrville (e)	08166150	498	1976-79
Turtle Creek Tributary near Kerrville (e)	08166300	0.46	1966-74
Guadalupe River near Comfort (d)	08166500	762	1918-32
Rebecca Creek near Spring Branch (d)	08167600	10.9	1960-79
Blidders Creek at New Braunfels (e)	08168600	16.0	1962-89
Panther Canyon at New Braunfels (e)	08168700	0.73	1962-89

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Trough Creek near New Braunfels (e)	08168720	0.48	1966-74
W.P. Dry Comal Creek Tributary near New Braunfels (e)	08168750	0.32	1966-74
Walnut Branch near Seguin (e)	08169750	5.46	1967-74
East Pecan Branch near Gonzales (e)	08169850	0.24	1965-74
San Marcos River at San Marcos (d)	08169950	83.7	1915-21
West Elm Creek near Niederwald (e)	08172100	0.44	1965-74
San Marcos River at Ottine (d)	08173500	1,249	1915-43
Guadalupe River below Cuero (d)	08176000	4,923	1903-07, 1916-19, 1921-36
Irish Creek near Cuero (e)	08176200	15.5	1967-74
Three Mile Creek near Cuero (e)	08176600	0.48	1966-74
Coletto Creek Reservoir inflow (Guadalupe diversion) near Schroeder (d)	08176990	357	1980-94
Coletto Creek near Schroeder (d)	08177000	369	1930-34, 1953-79
Olmos Creek Tributary at FM 1535 at Savano Park (e)	08177600	0.33	1969-81
Olmos Reservoir at San Antonio (e)	08177800	32.4	1968-71, 1976-89, 1992-95
San Antonio River at Woodlawn Avenue, San Antonio (e)	08177860	36.4	1989-95
San Antonio River at Dolorosa, San Antonio (d)	08177920	38.9	1980-86
Alazan Creek at St. Cloud Street, San Antonio (e)	08178300	3.26	1969-79
San Pedro Creek at Furnish St., San Antonio (d)	08178500*	2.64	1916-29
Harlandale Creek at W. Harding Street, San Antonio (e)	08178555	2.45	1977-81
Panther Springs Creek at FM 2696 near San Antonio (e)	08178600	9.54	1969-77
Lorence Creek at Thousand Oaks Blvd., San Antonio (e)	08178620	4.05	1980-84
West Elm Creek at San Antonio (e)	08178640	2.45	1976-88
East Elm Creek at San Antonio (e)	08178645	2.33	1976-81
Salado Creek Tributary at Bitters Road, San Antonio (e)	08178690	0.26	1969-81
Salado Creek at Rittman Road, San Antonio (e)	08178720	137	1968-81
Salado Creek Tributary at Bee Street, San Antonio (e)	08178736	0.45	1970-77
Salado Creek at E. Houston Street, San Antonio (e)	08178740	181	1968-81
Salado Creek at U.S. Highway 87, San Antonio (e)	08178760	186	1968-81
Salado Creek at Southcross Blvd., San Antonio (e)	08178780	188	1968-81
Bandera Creek Tributary near Bandera (e)	08178900	0.27	1966-74
Medina River near Pipe Creek (d)	08179000	474	1923-35, 1953-82
Red Bluff Creek near Pipe Creek (d)	08179100	56.30	1956-81
Medina River Tributary near Pipe Creek (e)	08179200	0.30	1966-74
Medina River at La Coste (d)	08180640	805	1987-2000
Medio Creek at Pearsall Road, San Antonio (e)	08180750	47.9	1987-95
Leon Creek Tributary at FM 1604, San Antonio (e)	08181000	5.57	1968-80
French Creek Tributary near Helotes (e)	08181200	1.08	1966-74
Ranch Creek near Helotes (d)	08181410	0.39	1978
Leon Creek Tributary at Kelly Air Force Base (d)	08181450	1.19	1969-79
Calaveras Creek SWS No. 6 (inflow) near Elmendorf (e)	08182400	7.01	1957-77
Calaveras Creek near Elmendorf (d)	08182500	77.2	1954-71
San Antonio River at Calaveras (d)	08183000	1,786	1918-25
Cibolo Creek near Boerne (d)	08183900	68.4	1963-95
Cibolo Creek near Bulverde (d)	08184000	198	1946-66
Cibolo Creek above Bracken (d)	08184500	250	1946-51
Cibolo Creek at Sutherland Springs (d)	08185500	665	1924-29
Escondido Creek SWS No. 1 (inflow) near Kenedy (e)	08187000	3.29	1955-73
Escondido Creek at Kenedy (d)	08187500	72.4	1954-73
Escondido Creek SWS No. 11 (inflow) near Kenedy (e)	08187900	8.43	1959-77
Dry Escondido Creek near Kenedy (d)	08188000	9.43	1954-59
Baugh Creek at Goliad (e)	08188400	3.02	1966-74
Guadalupe-Blanco River Authority Calhoun Canal-Flume No. 2 near Long Mott (d)	08188750	N/A	1972-86
Guadalupe River at State Highway 35 near Tivoli (e)	08188810	10,280	1975-82
Olmos Creek Tributary near Skidmore (e)	08189600	0.58	1966-73

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Chiltipin Creek at Sinton (d)	08189800	128	1970-91
Nueces River near Uvalde (d)	08191500	1,833	1928-39
Nueces River near Cinonia (d)	08192500	2,102	1915-25
Plant Creek near Tilden (e)	08194550	0.36	1965-74
Nueces River at Simmons (d)	08194600	8,561	1965-77
Frio River at Knippa (d)	08195700	N/A	1953
Dry Frio River at Knippa (d)	08196500	179	1953
East Elm Creek near Sabinal (e)	08198900	10.6	1967-74
Frio River near Frio Town (d)	08199700	1,460	1924-27
Hondo Creek near Hondo (d)	08200500	132	1953-64
Bone Creek near Hondo (e)	08200900	0.19	1965-74
Seco Creek near Utopia (d)	08202000	53.2	1952-61
Seco Creek Reservoir inflow near Utopia (d)	08202450	59.5	1991-98
Seco Creek near D'Hanis (d)	08202500	87.4	1952-64
Parkers Creek Reservoir (e)	08202800	10.0	1991-99
Leona River Tributary near Uvalde (e)	08203500	1.21	1966-74
Leona River Spring Flow near Uvalde (d)	08204000*	N/A	1939-65
			1966-2002
Leona River near Divot (d)	08204500	565	1924-29
Frio River at Calliham (d)	08207000	5,491	1925-26,
			1932-81
Rutledge Hollow Creek at Poteet (e)	08207200	9.33	1966-74
Rutledge Hollow at 7th Street, Poteet (d)	08207220	9.74	1979-2000
Atascoas River at U.S. Highway 281, Pleasanton (d)	08207300	394	1973-2000
Lucas Creek near Pleasanton (e)	08207700	32.8	1966-73
Ramirena Creek near George West (d)	08210300	84.4	1968-72
Nueces River below Mathis (d)	08211100	16,726	1966-67
Rincon Bayou Channel near Calallen (d)	08211503*	N/A	1996-2000
Pintas Creek Tributary near Banquete (e)	08211550	3.28	1966-74
Hamon Creek near Freer (e)	08211600	0.73	1965-73
San Diego Creek at Alice (d)	08211800	319	1964-89
Lake Alice at Alice (e)	08211850	150	1965-86
San Fernando Creek near Alice (d)	08212000	518	1962-63
North Los Animas Creek Tributary near Freer (e)	08212320	0.07	1969-74
Rio Grande at Vinton Bridge near Anthony (d)	08363840	28,680	1969-74
Northgate Reservoir at El Paso (e)	08365540	6.89	1973-75
Range Reservoir at El Paso (e)	08365545	11.9	1973-75
Franklin Canal at El Paso (d)	08365550	N/A	1969-72
McKelligon Canyon at El Paso (d)	08365600	2.30	1958-77
Government Ditch at El Paso (d)	08365800	6.40	1958-77
Riverside Canal near Socorro (d)	08366400	N/A	1969-72
Rio Grande at Island Station near El Paso (d)	08366500	32,683	1938-60
Rio Grande at Tornillo Branch near Fabens (d)	08367000	32,914	1924-38
Tornillo Drain at mouth near Tornillo (d)	08368000	N/A	1969-72
Tornillo Canal near Tornillo (d)	08368300	N/A	1969-72
Hudspeth Feeder Canal near Tornillo (d)	08368900	N/A	1969-72
Rio Grande at County Line Station near El Paso (d)	08369500	33,550	1938-60
Camo Rice Arroyo Tributary near Fort Hancock (e)	08370200	2.35	1966-74
Wild Horse Creek Tributary near Van Horn (e)	08370800	0.74	1966-73
Cibolo Creek near Presidio (d)	08373200	276	1971-77
Rio Grande above Presidio (lower Station) (d)	08373500	64,285	1901-13,
			1924-54
Rio Grande at Langtry (d)	08377500	81,429	1900-14,
			1920,
			1924-60
Rio Grande Tributary near Langtry (e)	08377600	0.32	1966-74
Delaware River Tributary near Orla (e)	08407800	1.6	1966-74
Pecos River near Angeles (d)	08409500	20,540	1914-37
Salt Screwbean Draw near Orla (d)	08411500	464	1939-41,
			1944-57
Pecos River near Mentone (d)	08414000	21,650	1922-26,

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Reeves County WID No. 2 Canal near Mentone (d)	08414500	N/A	1969-73 1922-25, 1939-57, 1964-90
Ward County WID No. 3 Canal near Barstow (d)	08415000	N/A	1939-57, 1964-90
Pecos River above Barstow (d)	08416500	21,800	1916-21
Ward County Irrigation District No. 1 Canal near Barstow (d)	08418000	N/A	1922-25, 1939-57, 1964-90
Pecos River at Pecos (d)	08420500	22,100	1898-1907, 1914-15, 1922-26, 1939-55
Madera Canyon near Toyahvale (d)	08424500	53.8	1932-49
Phantom Lake Spring near Toyahvale (d)	08425500*	N/A	1932-34, 1942-66
San Solomon Springs at Toyahvale (d)	08427500*	N/A	1932-34, 1941-65
West Sandia Spring at Balmorhea (d)	08429000	N/A	1932-33
East Sandia Spring at Balmorhea (d)	08430000	N/A	1932-33
Toyah Creek near Pecos (d)	08431000	1,024	1940-41, 1944-45
Salt Draw near Pecos (d)	08431500	1,882	1939-41, 1944-45
Limpia Creek below Fort Davis (d)	08431800	227	1962-77
Limpia Creek near Fort Davis (d)	08432000	303	1925-32
Toyah Creek below Toyah Lake near Pecos (d)	08434000	3,709	1939-51
Grandfalls-Big Valley Canal near Barstow (d)	08435000	N/A	1922-26, 1939-57, 1964-76
Pecos River below Barstow (d)	08435500	25,980	1939-41
Toronto Creek near Alpine (d)	08435600	27.9	1971-76
Alpine Creek at Alpine (d)	08435620	18.1	1971-76
Moss Creek near Alpine (d)	08435660	11.3	1971-76
Sunny Glen Canyon near Alpine (d)	08435700	29.7	1968-77
Coyanosa Draw near Fort Stockton (d)	08435800	1,182	1964-77
Pecos County WID No. 2 (Upper Div.) Canal near Grandfalls (d)	08436500	N/A	1922-25, 1939-57, 1964-90
Courtney Creek Tributary near Fort Stockton (e)	08436800	0.44	1966-74
Pecos County WID No. 2 Canal near Imperial (d)	08437500	N/A	1940-57, 1964-90
Lake Leon Tributary near Fort Stockton (e)	08437550	1.59	1966-74
Pecos County WID No. 3 Canal near Imperial (d)	08437600	N/A	1940-57, 1964-90
Monument Draw Tributary at Pyote (e)	08437650	178	1966-74
Ward County WID No. 2 Canal near Grand Falls (d)	08437700	N/A	1939-57, 1964-90
Pecos River near Grand Falls (d)	08438100	27,810	1916-26
Pecos River below Grand Falls (d)	08441500	27,820	1921-26, 1939-56
Three Mile Mesa Creek near Fort Stockton (e)	08444400	1.04	1966-74
Comanche Springs at Fort Stockton (d)	08444500	N/A	1936-64
Pecos River near Sheffield (d)	08447000	31,600	1922-25, 1940-49
Howards Creek Tributary near Ozona (e)	08447200	7.53	1967-73
Pecos River near Shumla (d)	08447400	35,162	1955-60
Goodenough Springs near Comstock (e)	08448500	N/A	1929-60
Sonora Field Creek at Sonora (e)	08448800	2.60	1965-71
Devils River near Juno (d)	08449000	2,730	1925-49,

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
			1964-73
Rough Canyon Tributary near Del Rio (e)	08449470	7.90	1967-73
Devils River near Del Rio (d)	08449500	4,185	1900-14, 1924-57
Evans Creek Tributary near Del Rio (e)	08449600	0.39	1966-73
Devils River near mouth, Del Rio (d)	08450500	4,305	1954-60
Rio Grande near Del Rio (d)	08452500	123,303	1900-15, 1920, 1924-54
San Felipe Creek near Del Rio (e)	08453000	46.0	1931-60
Zorro Creek near Del Rio (e)	08453100	10.0	1966-74
East Perdido Creek near Brackettville (e)	08454900	3.39	1965-74
Pinto Creek near Del Rio (d)	08455000	249	1929-69, 1971-72
Rio Grande at San Antonio Crossing (d)	08458700	129,226	1952-60
Arroyo San Bartolo at Zapata (e)	08459600	0.61	1966-74
Rio Grande near Zapata (d)	08460500	163,344	1932-53
Rio Grande at Roma (d)	08462500	166,464	1900-13, 1923-54
Rio Grande Tributary near Rio Grande City (e)	08466100	1.20	1966-74
Rio Grande Tributary near Sullivan City (e)	08466200	0.40	1966-74
Rio Grande at Hildalgo (d)	08471500	176,100	1928-32, 1935, 1939, 1941-51
Rio Grande near Progreso Bridge (d)	08473300	176,228	1953-60
Rio Grande near San Beniot (d)	08473700	176,304	1953-60
Rio Grande near Brownsville (d)	08475000	176,333	1935-50

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

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The following stations were discontinued as continuous-record surface-water-quality stations prior to the 2000 water year. Daily records of specific conductance, temperature, sediment, color, pH, dissolved oxygen, or chloride were collected and published for the record shown for each station.

[SC, specific conductance; T, temperature; S, sediment; C, color; pH, pH; DO, dissolved oxygen; Cl, chloride.]

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Canadian River at Tascosa	07227470	19,200	SC, T, Cl	1948-53,
		18,536	SC, T, pH, Cl	1969-77
Canadian River near Canadian	07228000	22,866	SC, T	1974-81
Prairie Dog Town Fork Red River near Wayside	07297910	4,211	SC, T	1969-81
Tule Creek near Silverton	07298200	1,150	SC, T, pH, Cl	1968-69
Prairie Dog Town Fork Red River near Brice	07298500	6,082	SC, pH, Cl, S	1949-51,
			T	1950-51
Mulberry Creek near Brice	07299000	534	SC, pH, Cl, S	1949-51
Prairie Dog Town Fork Red River near Lakeview	07299200	6,792	SC, T	1968-80,
			S	1979-80
Little Red River near Turkey	07299300	139	SC, T	1968-81,
			S	1979-81
Jonah Creek at Weir near Estelline	07299512	65.5	SC	1974-82
Jonah Creek below Weir near Estelline	07299514	66.6	SC	1974-76
Salt Creek near Estelline	07299530	142	SC	1974-79
Prairie Dog Town Fork Red River near Childress	07299540	7,725	SC, T	1968-82,
				1994-97
Salt Fork Red River near Hedley	07299930	744	SC, T, pH, Cl	1956-61
North Pease River near Childress	07307600	1,434	SC, T	1973-79
Middle Pease River at Highway 62 and 83 near Paducah	07307750	1,086	SC	1973-79,
			T	1973-79,
			S	1994-97
Middle Pease River near Paducah	07307760	1,128	SC	1980-82,
			T	1980
Pease River near Childress	07307800	2,754	SC, T	1968-82,
				1994-97
Pease River near Crowell	07308000	3,037	SC	1942-43
Pease River near Vernon	07308200	3,488	SC, T	1999
North Fork Wichita River near Crowell	07311622	591	SC	1971-76
Middle Fork Wichita River near Truscott	07311648	161	SC	1970-76
Truscott Brine Lake near Truscott	07311669	26.2	SC, T	1985-90
South Fork Wichita River near Guthrie	07311780	219	SC	1970-76
South Fork Wichita River at Ross Ranch near Guthrie	07311790	499	SC	1971-79,
			Cl	1988-97,
			S	1978-79
Beaver Creek near Electra	07312200	652	SC,T	1969-70
				1996-2002
Wichita River at State Highway 25 near Kamay	07312130	2,246	SC, T	1996-2002
Wichita River at Wichita Falls	07312500	3,140	SC, T	1981-89,
				1996-2002
Little Wichita River near Archer City	07314500	481	SC	1953-55,
			T	1953-54
Little Wichita River above Henrietta	07314900	1,037	SC, DO	1999
Little Wichita River near Henrietta	07315000	1,037	SC, T, pH, Cl	1953-56,
			S, T	1959-66,
			T	1954
East Fork Little Wichita River near Henrietta	07315200	178		
Little Wichita River near Ringgold	07315400	1,350	SC, pH, Cl	1959-62
Red River near Gainesville	07316000	30,782	SC, Cl	1944-46,
			SC, T, pH, Cl	1953-63,
			SC, T	1967-89,
Little Pine Creek near Kanawha	07336750	75.4	T	1980
Red River near De Kalb	07336820	47,348	SC, T	1968-91
Middle Sulphur River at Commerce	07342480	44.1	Cl, pH	1987-2001

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
South Sulphur River near Cooper	07342500	527	SC, T, pH, Cl	1959-66, 1968-72,
Sulphur River near Talco	07343200	1,365	SC, T SC, T, pH, Cl	1973-89 1966-72,
White Oak Creek near Talco	07343500	494	SC, T SC, T, pH, Cl	1973-91 1966-72,
Sulphur River near Darden	07344000	2,774	SC, T	1973-91
Big Cypress Creek near Pittsburg	07344500	370	SC, T, pH, Cl	1947-50
Little Cypress Creek near Jefferson	07346070	675	SC, T SC, T	1968-72, 1973-89
Sabine River near Emory	08017500	888	SC, T, pH, Cl	1952-54
Grand Saline Creek near Grand Saline	08018200	91.4	SC, T, pH, Cl	1968-73
Sabine River near Mineola	08018500	1,357	SC, T, pH, Cl SC, T	1968-72, 1973-89
Lake Fork Creek near Quitman	08019000	585	SC, T, pH, Cl SC, T	1968-72, 1973-89
Big Sandy Creek near Big Sandy	08019500	231	SC, T, S	1985-86
Sabine River near Beckville	08022040	3,589	SC, T	1952-98
Sabine River below Toledo Bend near Burkeville	08026000	7,482	SC, T C	1969-86, 1969-75
Sabine River near Bon Wier	08028500	8,229	SC, T, C	1969-84
Sabine River near Ruliff	08030500	9,329	SC T pH, DO C Cl	1945, 1947-98 1947-98 1968-75, 1970-76, 1968
Cow Bayou near Mauriceville	08031000	83.3	SC, T, pH, Cl SC, T	1952-54, 1954-56
Neches River near Neches	08032000	1,145	SC, T	1974-91
Neches River near Alto	08032500	1,945	SC, T	1950-69
Neches River near Diboll	08033000	2,724	SC, T	1970-81
Neches River near Rockland	08033500	3,636	SC	1941-42, 1946-47
Angelina River near Lufkin	08037000	1,600	SC, T, pH, Cl SC, T	1955-78, 1955-
Attoyac Bayou near Chireno	08038000	503	SC, T	1984-99
Sam Rayburn Reservoir near Jasper	08039300	3,449	SC, T	1964-84, 1993-99
Angelina River below Sam Rayburn Dam near Jasper	08039400	3,449	SC, T	1964-79
Angelina River near Ebenezer	08039500	3,486	SC, T	1994-99
Village Creek near Kountze	08041500	860	SC, T	1968-70
Pine Island Bayou near Sour Lake	08041700	336	SC, T, pH, Cl SC, T	1968-72, 1973-89
Big Sandy Creek near Bridgeport	08044000	333	SC, T, S	1968-77,
Lake Worth above Fort Worth	08045400	2,064	pH, Cl	
Clear Fork Trinity River at Fort Worth	08047500	518	SC, pH, Cl T	1949-52, 1948-62
Village Creek at Everman	08048970	84.5	SC, pH, T, DO	1990
Lake Arlington at Arlington	08049200	143	SC, pH, T, DO	1989-2002
Elm Fork Trinity River SWS # 6-0 near Muenster	08050200	0.77	S	1957-66
Elm Fork Trinity River near Muenster	08050300	46.0	SC T	1967-68, 1957-58, 1966-68,
Clear Creek near Sanger	08051500	295	S SC, T, S	1957-68 1968-77

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Little Elm Creek near Celina	08052650	46.7	SC	1967-75,
			T, S	1966-75
Little Elm Creek near Aubrey	08052700	75.5	SC	1967-75,
			T, S	1967-75
Elm Fork Trinity River near Lewisville	08053000	1,673	SC	1982-86,
			T	1976-86
White Rock Creek at Greenville Avenue, Dallas	08057200	66.4	SC, pH, T, DO	1997-2000
Trinity River below Dallas	08057410	6,278	SC, T	1968-2000,
			S	1972-75,
				1998-2000
			Cl	1970-81,
				1998-99
Lavon Lake near Lavon	08060500	770	SC,T,CL	1969-74,
				1975,82,
				1995-99
Duck Creek near Garland	08061700	31.6	SC, pH, T, DO	1988-89
East Fork Trinity River above Seagoville	08061970	1,183	SC, T, pH, DO	1987-93
East Fork Trinity River at Seagoville	08061980	1,224	SC, pH, T, DO	1987-96
East Fork Trinity River near Crandall	08062000	1,256	SC, T	1968-1981,
				1987-2000
			pH, DO	1977,
				1986-2000
			Cl	1964-81,
				1986-2000
Trinity River at Trinidad	08062700	8,538	SC, T	1967-81
				1986-2000
			pH, DO	1967-81,
				1986-2000
			Cl	1966-94
			S	1978-94
Cedar Creek near Mabank	08063000	733	SC, T, pH, Cl	1956-57
Pin Oak Creek near Hubbard	08063200	17.6	SC	1967-72,
			T	1957-60,
				1965-72,
			S	1957-60,
				1962-72
Richland Creek near Richland	08063500	734	SC, T, pH, Cl	1968-69,
			SC, T	1983-89
Chambers Creek near Corsicana	08064500	963	SC, T, pH, Cl	1961-70
Richland Creek near Fairfield	08064600	1,957	SC, T, pH, Cl	1956-66,
				1972,
			SC, T	1973-83
Trinity River near Oakwood	08065000	12,833	SC, T, pH, Cl	1948-54,
			SC, T, S	1977-81
Bedias Creek near Madisonville	08065800	321	SC, T	1985-87,
			S	1986
Long King Creek at Livingston	08066200	141	SC, T, pH, Cl	1963-72
Trinity River near Goodrich	08066250	16,844	SC, T	1970-73
Old River near Cove	08067200	19.0	SC, pH, Cl	1950-65,
			T	1965
Trinity River at Anahuac	08067300	17,912	SC, pH, Cl	1950-65
Cedar Bayou near Crosby	08067500	64.9	SC, pH, Cl	1971-79
West Fork San Jacinto River near Conroe	08068000	828	SC, T	1962-90,
			DO	1979-81
Panther Branch near Spring	08068450	34.5	S	1975-76
West Fork San Jacinto River near Humble	08069500	1,741	SC, Cl	1945-46
East Fork San Jacinto River near New Caney	08070200	388	SC,T	1984-99
San Jacinto River near Huffman	08071500	2,800	SC	1945-54,

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Buffalo Bayou at West Belt Drive at Houston	08073600	307	T	1949-54
Buffalo Bayou at Houston	08074000	336	SC, T	1979-81
Whiteoak Bayou at Main Street, Houston	08074598	127	SC, pH, T, DO	1986-2000
Buffalo Bayou at Main Street, Houston	08074600	339	CI	1969-81
Buffalo Bayou at McKee Street, Houston	08074610	454	SC, T, DO	1992-97
Sims Bayou at Houston	08075500	63.0	SC, T, DO	1986-92
Chocolate Bayou near Alvin	08078000	87.70	SC, T	1992-2000
North Fork Double Mountain Fork Brazos River near Post	08079575	438	pH	1998-2000
Double Mountain Fork Brazos River near Rotan	08080000	8,536	SC, T, DO	1994-97
Double Mountain Fork Brazos River near Aspermont	08080500	8,796	SC, T	1978-81
McDonald Creek near Post	08080540	103	SC, T	1984-93
Salt Fork Brazos River near Peacock	08081000	4,619	SC, T	1950-51
Croton Creek near Jayton	08081200	290	SC, T	1965-86
Salt Croton Creek near Aspermont	08081500	64.3	SC	1961-80
Salt Fork Brazos River near Aspermont	08082000	5,130	T	1969-77
Stinking Creek near Aspermont	08082100	88.8	SC, T, pH, CI	1972-73
North Croton Creek near Knox City	08082180	251	SC, T	1949-51
Brazos River at Seymour	08082500	15,538	SC, T	1957-82
Clear Fork Brazos River at Hawley	08083240	1,416	T	1950
Clear Fork Brazos River at Nugent	08084000	2,199	SC, T	1966-69
California Creek near Stamford	08084800	478	SC, T	1966-86
Paint Creek near Haskell	08085000	914	SC, T	1966-86
Clear Fork Brazos River at Fort Griffin	08085500	3,988	SC, T, S	1960-95
Hubbard Creek near Sedwick	08086015	128	SC, T	1996-2002
Deep Creek at Moran	08086050	235	SC, T	1968-79
Hubbard Creek near Albany	08086100	454	SC, T	1982-84
Salt Prong Hubbard Creek at U.S. Highway 380 near Albany	08086120	65.2	SC, T, pH, CI	1948-53
North Fork Hubbard Creek near Albany	08086150	39.3	SC, T	1963-79
Salt Prong Hubbard Creek near Albany	08086200	115	SC, T	1963-79
Snailum Creek near Albany	08086210	22.9	SC, T	1950-51
Battle Creek near Moran	08086235	108	SC, T	1968-79
Pecan Creek near Eolian	08086260	26.4	SC, T	1982-84
Big Sandy Creek near Breckenridge	08086300	288	SC, T	1964-66
Hubbard Creek near Breckenridge	08086500	1,089	SC, T	1963-75
Clear Fork Brazos River at Eliasville	08087300	5,697	SC, T	1962-75
Brazos River near South Bend	08088000	22,673	SC, CI	1962-77
Salt Creek at Olney	08088100	11.8	SC, T	1955-75
Salt Creek near Newcastle	08088200	120	SC, T	1962-82
Brazos River at Morris Sheppard Dam near Graford	08088600	23,596	SC, T	1942-48
Brazos River near Dennis	08090800	25,237	T	1978-81
Brazos River at Whitney Dam near Whitney	08092600	27,189	SC, T	1958-60
Aquilla Creek above Aquilla	08093360	255	SC	1942-91
			T	1950-55
				1966-91
				1971-95
				1947-97
				1980-83

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Aquilla Creek near Aquilla	08093500	308	SC, T	196066, 1968-82
Bosque River near Waco	08095600	1,656	SC, T	1998-2002
Brazos River near Highbank	08098290	30,436	T	1968-84
Leon River near Eastland	08098500	235	SC, T	1950-53
Leon River near Hasse	08099500	1,261	SC, T	1980-82, 1990-97
Leon River near Belton	08102500	3,542	T	1957-72
South Fork Rocky Creek near Briggs	08103900	33.30	S	1963-65
Lampasas River at Youngsport	08104000	1,240	SC, T	1961-64
Little River near Little River	08104500	5,228	SC, T	1965-73, 1980-82
Little River at Cameron	08106500	7,065	SC, T	1959-97
San Gabriel River near Weir	08105300	563	T	1977-82
San Gabriel River at Laneport	08105700	738	T	1977-82
Brazos River at State Highway 21 near Bryan	08108700	39,049	SC, T	1961-65
Brazos River near Bryan	08109000	39,515	SC, T	1966
Brazos River near College Station	08109500	39,599	SC, T	1961-84
Yegua Creek near Somerville	08110000	1,009	SC, T	1961-67
Navasota River above Groesbeck	08110325	239	SC, T	1968-89
Navasota River near Groesbeck	08110400	311	SC, T	1968-78
Navasota River near Easterly	08110500	968	SC	1942-43, 1947
Navasota River near Bryan	08111000	1,454	SC, T	1959-81, S 1976-81
Brazos River near Richmond	08114000	45,107	S SC T	1966-86, 1942-95, 1951-95
Brazos River near Rosharon	08116650	45,399	SC, T	1969-80
Brazos River at Harris Reservoir near Angleton	08116700	44,000	SC T	1962-77, 1967-77
Brazos River at Brazoria Reservoir near Brazoria	08117200	44,000	SC T	1962-77, 1967-77
San Bernard River near Boling	08117500	727	SC, T	1978-81
Bull Creek near Ira	08118500	26.3	SC, T, pH, Cl	1950-51
Bluff Creek near Ira	08119000	42.6	SC, T, pH, Cl	1950
Colorado River near Ira	08119500	3,483	SC, T	1950-52, 1959-70, 1975-82, Cl 1951-52
Deep Creek near Dunn	08120500	198	SC, T	1953-54
Colorado River near Cuthbert	08120700	3,912	SC, T	1965-99 2001-02
Morgan Creek near Westbrook	08121500	273	T	1954-55
Graze Creek near Westbrook	08122000	21.7	T	1954-55
Morgan Creek near Colorado City	08122500	313	T	1947-49
Lake Colorado City near Colorado City	08123000	345	T	1954-55
Beals Creek above Big Spring	08123650	9,319	SC, T	1973-78
Beals Creek atr Big Spring	08123700	9,341	SC, T	1956-57
Beals Creek near Coahoma	08123720	9,383	SC, T	1983-88
Colorado River near Silver	08123900	14,997	SC, T	1957-68
Colorado River at Robert Lee	08124000	15,307	SC, T, pH, Cl S	1948-51, 1949-51
Colorado River at Ballinger	08126500	16,413	SC, T S	1961-79, 1978-79
Pecan Bayou at Brownwood	08143500	1,660	SC, T	1948-49
Pecan Bayou near Mullin	08143600	2,073	SC, T	1968-91
San Saba River at San Saba	08146000	3,046	SC	1962-69,

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Colorado River near San Saba	08147000	31,217	T SC, T	1963-70 1947-92, 1951-62
Llano River at Llano	08151500	4,197	SC, T	1979-81
Lake Austin at Austin	08154900	38,846	SC, T	1965-80
Barton Creek below Barton Springs at Austin	08155505	125	SC, T,	1965, 1975-83, 1989-91, 1994-97
Waller Creek at 23rd Street at Austin	08157500	4.13	T	1955-60
East Bouldin Creek at South 1st Street, Austin	08157600	2.40	CI	1997-2000
Blunn Creek near Little Stacey Park, Austin	08157700	1.20		1997-2001
Boggy Creek at US Highway 183, Austin	08158050	13.1	C C, T	1977-86 1994-2001
Colorado River at Austin	08158000	39,009	SC, T	1948-91
Colorado River above Columbus	08160700	41,403	SC, T	1983-86
Colorado River at Columbus	08161000	41,640	SC T	1967-73, 1957-59, 1961-68
Colorado River at Wharton	08162000	42,003	S SC T	1957-73 1945-92, 1946-48,
Lavaca River near Edna	08164000	817	SC, T	1978-81
Navidad River near Speaks	08164350	437	SC, T, pH, CI	1996-97
Navidad River near Ganado	08164500	1,062	SC, T	1960-80
Guadalupe River near Spring Branch	08167500	1,315	SC	1942-45
Guadalupe River at Sattler	08167800	1,436	T	1984-87
Blanco River at Wimberley	08171000	355	T	1977-78
Plum Creek near Luling	08173000	309	SC, T	1968-86
Sandies Creek near Westhoff	08175000	549	S CI	1966 1962-99
Guadalupe River at Victoria	08176500	5,198	SC T	1946-81, 1951-81
Coletto Creek Reservoir (Condenser No. 1) near Fannin	08177360	414	T	1980-94
Coletto Creek Reservoir (outflow) near Victoria	08177410	494	T	1980-94
Olmos Creek at Dresden Drive, San Antonio	08177700	21.2	SC, pH, T, DO S	1969-99 1973
San Antonio River at San Antonio	08178000	41.8	SC, T	1991-92, 1996-97
San Antonio River at Mitchell Street, San Antonio	08178050	42.4	SC, pH, T, DO	1992-99
San Antonio River at Loop 410 at San Antonio	08178565	125	SC, pH, T, DO	1987-2000
Medina River near Macdona	08180700	885	SC, pH, T, DO	1998-2000
Medina River at La Coste	08180640	805	SC, pH, T, DO	1987-95
Medio Creek at Pearsall Rd. at San Antonio	08180750	47.9	SC, pH, T, DO	1987-95
Medina river near Somerset	08180800	967	SC, T, CI	1998-2000
Medina River at San Antonio	08181500	1,317	SC, pH, T, DO CI	1987-2000 1965-2000
San Antonio River near Falls City	08183500	2,113	SC, pH, T, DO	1987-96
Cibolo Creek near Falls City	08186000	827	SC, T	1969-91
Escondido Creek SWS #1 near Kenedy	08187000	3.29	S	1955-65
Guadalupe River at Tivoli	08188800	10,128	SC, T	1966-82
Mission River at Refugio	08189500	690	SC, T	1961-81
Nueces River at Cotulla	08194000	5,171	SC	1942
Frio River at Calliham	08207000	5,491	SC, T	1968-81
Nueces River at Bluntzer	08211200	16,772	SC, T	1948-91
Los Olmos Creek near Falfurrias	08212400	480	SC, T	1975-81
Rio Grande at El Paso	08364000	32,207	SC, pH, T, DO	1930-2000

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Rio Grande at Fort Quitman	08370500	34,884	SC, T	1975-78.
Rio Grande at Foster Ranch near Langtry	08377200	80,742	SC, T	1975-81
Pecos River below Red Bluff Dam near Orla	08410100	20,720	SC	1937-69,
			T	1953-69
Salt Draw near Orla	08411500	464	SC, T	1943-48
Pecos River near Mentone	08414000	21,650	SC	1939
Pecos River at Pecos	08420500	22,100	SC	1939-41
Toyah Creek near Pecos	08431000	1,024	SC	1940,
				1944
Salt Screwbean Draw near Pecos	08431500	1,882	SC	1940,
				1944
Toyah Creek below Toyah Lake near Pecos	08434000	3,709	SC	1940-50,
			CI	1940
Pecos River below Grand Falls	08441500	27,820	SC	1939-42,
				1947-56
Pecos River near Girvin	08446500	29,560	SC	1940-41,
				1947,
				1954-82
			T	1954-59,
				1964-82
Pecos River near Sheffield	08447000	31,600	SC	1940-41,
				1947
Pecos River near Langtry	08447410	35,179	SC, T	1971-76,
				1981-85
Devils River at Pafford Crossing near Comstock	08449400	3,961	SC, T	1978-85
Rio Grande at Laredo	08459000	132,578	SC	1975-86,
			T	1974-76
Rio Grande at Roma	08462500	166,464	SC	1942-43
Rio Grande at Fort Ringgold, Rio Grande City	08464700	174,362	SC, pH, T	1959-2000
Rio Grande near Los Ebanos	08466300		SC, pH, T	1977-2000
Rio Grande below Anzalduas Dam near Mission	08469200	176,112	SC, pH, T	1967-72,
				1959-2000
Rio Grande near Brownsville	08475000	176,333	SC	1943-44,
			SC, T	1967-83
			S	1966-83

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WATER RESOURCES DATA—TEXAS, 2004

VOLUME 2

TRINITY RIVER BASIN

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with Federal, State, and City agencies, obtains a large amount of data pertaining to the water resources of Texas each water year. Such 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 U.S. Geological Survey, the data are published annually in six volumes of this report series entitled "Water Resources Data - Texas."

This report series includes records of stage, discharge, and water quality of streams and canals; stage, contents, and water quality of lakes and reservoirs, and water levels and water quality of ground water wells. Volume 2 contains records for water discharge at 54 gaging stations; stage only at 4 gaging stations; elevation at 17 lakes and reservoirs; content at 8 lakes and reservoirs; and water quality at 22 gaging stations. Also included are data for 2 partial-record stations comprised of 1 flood-hydrograph and 1 crest-stage station. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and City agencies in Texas.

This series of annual reports for Texas began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report was changed to its present format, with data on quantities and quality of surface water contained in each of three volumes, and expanding to five volumes beginning with the 1999 water year. Ground-water levels and water quality have been published in a separate volume beginning with the 1991 water year.

Prior to introduction of this series and for several water years concurrent with it, water resources data for Texas 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, Parts 7 and 8." For the 1961 through 1970 water 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 Waters 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 U.S. Geological Survey, Books and Open-File Reports, Federal Center, Bldg. 41, Box 25425 Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official U.S. Geological 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 TX-04-2." 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 may be purchased on microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161, (703) 605-6000.

Additional information, including the current prices, for ordering specific reports may be obtained from the Texas District Chief at the address given on the back of the title page or by telephone (512) 927-3500.

COOPERATION

Federal agencies that assisted the U.S. Geological Survey in the collection of data in this report in the form of funds or services in water year 2004 are:

- Corps of Engineers, U.S. Army.
- International Boundary and Water Commission
United States and Mexico, U.S. Section.
- National Park Service
- U.S. Bureau of Reclamation.

Organizations that assisted in the collection of data in this report through joint funding agreements through the Texas Water Development Board or through direct joint funding agreements with the U.S. Geological Survey are:

Texas Water Development Board (TWDB), G.E. Kretzschmar, Executive Administrator; the cities of Abilene, Arlington, Austin, Corpus Christi, Fort Worth, Gainesville, Garland, Georgetown, Graham, Houston, Lubbock, Nacogdoches, San Angelo, and Wichita Falls; Bexar, Medina, and Atascosa Counties Water Improvement District No. 1; Barton Springs/Edwards Aquifer Conservation District; Brazos River Authority; Canadian Municipal Water Authority; Coastal Water Authority; Colorado River Municipal Water District; Dallas Public Works Department; Dallas Water Utilities; Edwards Underground Aquifer Authority; Fort Bend Subsidence District; Franklin County Water District; Galveston County; Greenbelt Municipal and Industrial Water Authority; Guadalupe-Blanco River Authority; Harris-Galveston Coastal Subsidence District; Harris County Office of Emergency Management; Harris County Flood Control District; Houston-Galveston Area Council; Lavaca-Navidad River Authority; Lower Colorado River Authority; Lower Neches Valley Authority; North Central Texas Municipal Water Authority; Northeast Texas Municipal Water District; North Texas Municipal Water District; Pecos River Commission; Red Bluff Water Power Control District; Red River Authority of Texas; Sabine River Authority of Texas; Sabine River Compact Administration; San Antonio City Public Service Board; San Antonio River Authority; San Antonio Water System; San Jacinto River Authority; Somervell County Water District; Tarrant Regional Water District; Texas Soil & Water Conservation Board; Texas Department of Public Transportation; Texas Natural Resources Conservation Commission; Titus County Fresh Water Supply District No. 1; Trinity River Authority; Upper Colo-

rado River Authority; Upper Guadalupe River Authority; Upper Neches River Municipal Water Authority; West Central Texas Municipal Water District; and Wichita County Water Improvement District No. 2.

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation

Large variations in precipitation, runoff, and streamflow characterize the usual hydrologic conditions in Texas. In the eastern part of the State, streams typically are deep with wide alluvial flood plains, and streamflow is perennial. In the western part of the State, most streams flow through arroyos, and streamflow usually is ephemeral.

Streamflow across the State averaged normal during water year 2004.

Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,485,000 acre-feet, increased from 77 percent at the end of September 2003 to 84 percent at the end of September 2004. Records from these reservoirs indicate that storage increased in 54, decreased in 21, and remained the same in 2.

The area for which water resources data are presented in volume 2 includes the Trinity River Basin and Intervening Costal Basins. The area described in volume 2 and the location of selected streamflow stations in the area are shown in figure 1.

Streamflow

Monthly mean streamflow was normal in most streams in Texas during the 2004 water year. Comparisons of monthly mean and annual mean discharges in the 2004 water year, with median values for the period 1971-2000, were made for the following four representative index stations in Texas: the Neches River near Rockland (08033500) in southeastern Texas, the North Bosque River near Clifton (08095000) in east central Texas, the North Concho River near Carlsbad (08134000) in west central Texas, and the Guadalupe River near Spring Branch (08167500) in south central Texas (fig. 2).

Annual mean streamflow for the Neches River near Rockland was 2,932 cubic feet per second (ft³/s) for the 2004 water year, or 162 percent of 1,811 ft³/s for the reference period 1971-2000. The 2004 water year monthly mean discharges were above the normal range (greater than 75 percent of the median monthly discharge for the reference period) during the

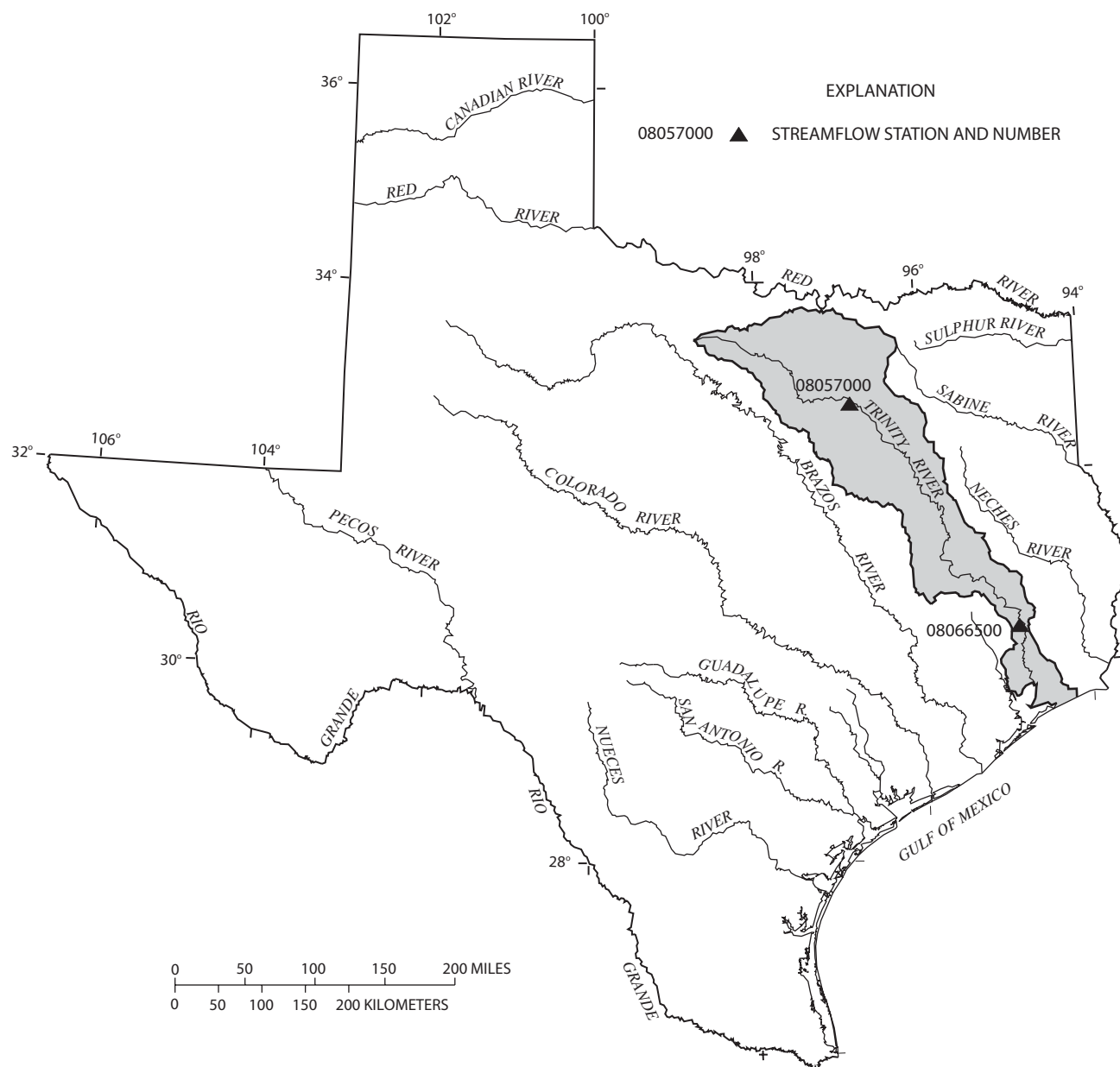


Figure 1. Area of Texas covered by volume 2 (shaded) and location of selected streamflow stations in volume 2.

WATER RESOURCES DATA—TEXAS, 2004

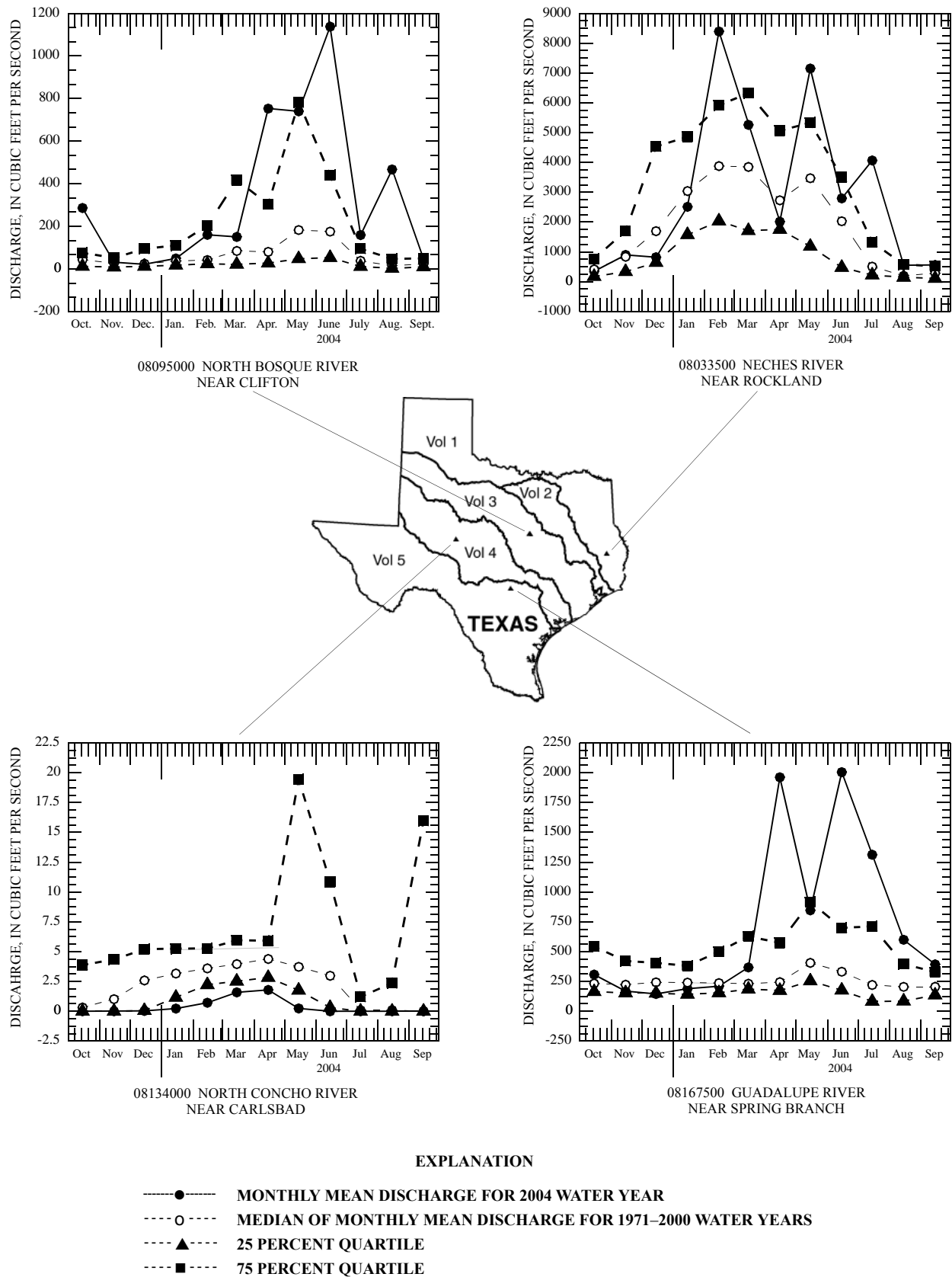


Figure 2. Monthly mean discharges at four long-term hydrologic index stations during 2004 water year and median of the monthly mean discharges for 1971-2000 water years.

months of February, July and September. Monthly mean discharges for the other months were within the normal range.

Annual mean streamflow for the North Bosque River near Clifton was 333 ft³/s for the 2004 water year, or 550 percent of 60.6 ft³/s for the reference period 1971-2000. The 2004 water year monthly mean discharges for the North Bosque River near Clifton were above the normal range (greater than 75 percent of the median monthly discharge for the reference period) during the months of October, April, June, July and August. Monthly mean discharges for the other months were within the normal range.

Annual mean streamflow for the North Concho River near Carlsbad was 0.38 ft³/s for the 2004 water year, or 18 percent of 2.05 ft³/s for the reference period 1971-2000. The 2004 water year monthly mean discharges for the North Concho River near Carlsbad were below the normal range (less than 25 percent of the median monthly discharge for the reference period) during the months of December, January, February, March, April, May, and June. Monthly mean discharges for the other months were within the normal range.

Annual mean streamflow for the Guadalupe River near Spring Branch was 707 ft³/s for the 2004 water year or 265 percent of 267 ft³/s for the reference period 1971-2000. The 2004 water year monthly mean discharges for the Guadalupe River near Spring Branch were above the normal range (greater than 75

percent of the median monthly discharge for the reference period during the months of April, June, July, August and September, and below the normal range (less than 25 percent of the median monthly discharge for the reference period) during December. Monthly mean discharges for the other months were within the normal range.

Conservation storage in 14 selected reservoirs in this area of the State, with a total combined conservation capacity of 6,816,000 acre-feet, increased from 93 percent at the end of September 2003 to 96 percent at the end of September 2004. Records from these reservoirs indicate that storage increased in 12 and decreased in 2 during the water year.

Water Quality

Dissolved-solids concentrations in most streams in the State are inversely related to streamflow discharges. During years when precipitation and runoff are less than normal, streamflow commonly is more mineralized than during years when precipitation and runoff are normal or greater than normal. However, for streams in which discharge is controlled by reservoirs, the dissolved-solids concentrations may remain relatively constant despite substantial fluctuations in precipitation and runoff.

Table 1. Streamflow at two selected stations

Station no. and name		Discharge during 2004 water year (cubic feet per second)			Discharge during period of record (cubic feet per second)		
		Maximum instantaneous	Minimum daily mean	Mean	Maximum instantaneous	Minimum daily mean	Mean
<u>Trinity River Basin</u>							
08057000	Trinity River at Dallas, TX	28,900	465	2,584	111,000	10	1,829 (1931-2004)
08066500	Trinity River at Romayor, TX	62,600	920	9,757	122,000	104	7,906 (1924-2004)

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. 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 (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and remobilization 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. Additional information about the NASQAN Program may be accessed from <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) is a network of monitoring sites that provide continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from <http://bqs.usgs.gov/acidrain/>.

The USGS National Water-Quality Assessment (NAWQA) Program 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; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 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 is 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 water-resources managers to use in making decisions 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 may be accessed from <http://water.usgs.gov/nawqa/>.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <http://water.usgs.gov/nsip/>.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <http://water.usgs.gov/pubs/twri/>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater

techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, 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.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or 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 changes are 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 stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are

plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) 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; and (5) a hydrograph of discharge.

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 follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station 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 mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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 term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, 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 either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented 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 items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the 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.—Information here documents 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.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://water.usgs.gov/nwis/nwis>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations 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 revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. 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 stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

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 arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFMS); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect 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 data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. 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. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or 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.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, 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.—Indicates 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) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) 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.

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been 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 table lists annual maximum stage and discharge at crest-stage stations, and the second table lists 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 often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a 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. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e—Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data 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 observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to the nearest tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 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 discharge values listed for partial-record stations.

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, values of cubic feet per second per square mile 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 Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRI, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each

constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data is useful in the interpretation of surface-water quality. Records of surface-water quality in this report 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 *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one 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 continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

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 is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must 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 on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the 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, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

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 be 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 discharges 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 discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, 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 suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in 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, and A4. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. 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 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 information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. 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 record, 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. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://waterdata.usgs.gov/nwis>). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

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.

WATER RESOURCES DATA—TEXAS, 2004

Remark Codes

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

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E." These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

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 collected by this District office 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. These data are not presented in this report but are available from the District office.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes 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. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected 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. The reference material 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. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

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.

ACCESS TO USGS WATER 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 from <http://water.usgs.gov>.

Water-quality data and data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from <http://water.usgs.gov/glossaries.html>.

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 a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also “Annual runoff”)

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP 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.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

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. (See also “Biomass” and “Dry weight”)

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 that is discharged (“runs off”) from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. 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.)

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 percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is 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 collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also “Substrate”)

Ash mass is the mass or amount of residue present after the residue from a 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). (See also “Biomass” and “Dry mass”)

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas 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.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also “Peak flow”)

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload,” “Dry weight,” “Sediment,” and “Suspended-sediment discharge”)

Benthic organisms are the group of organisms 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.

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

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu\text{m}^3/\text{mL}$). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu\text{m}^3/\text{cm}^2$). (See also “Phytoplankton” and “Periphyton”)

Bottom material (See “Bed material”)

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume

surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently 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 or 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:

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

π (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

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 for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

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. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens (*C. perfringens*) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

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 where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. 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, ft^3/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 or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, $[(\text{ft}^3/\text{s})/\text{d}]$) 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, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(\text{ft}^3/\text{s})/\text{mi}^2$] 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. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment pass-

ing a stream cross section during a 24-hour day. (See also “Sediment” and “Suspended-sediment concentration”)

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

Diatoms (*Bacillariophyta*) are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu\text{m}^3/\text{mL}$). The abundance of diatoms in periphyton samples is given in cells per square centimeter (cells/ cm^2) or biovolume per square centimeter ($\mu\text{m}^3/\text{cm}^2$). (See also “Phytoplankton” and “Periphyton”)

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

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

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 and State agencies that collect water-quality data. Determi-

nations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water 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 concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It 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 the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO_3) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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. 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 stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas 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 contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also “Ash mass,” “Biomass,” and “Wet mass”)

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. (See also “Wet weight”)

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also “Substrate embeddedness class”)

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded 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 (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also “Bacteria”)

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli (*E. coli*) are bacteria present in the intestine and feces of warmblooded 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 (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

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

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are 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. (See also “Bacteria”)

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. 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. (See also “Bacteria”)

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

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 a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the

maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

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.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae (*Chlorophyta*) are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating “moss” in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu\text{m}^3/\text{mL}$). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm²) or biovolume per square centimeter ($\mu\text{m}^3/\text{cm}^2$). (See also “Phytoplankton” and “Periphyton”)

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the

reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily 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>

Hilsenhoff’s Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \frac{\sum (n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See “Datum”)

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

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 USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, 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 distributed uniformly on it. (See also “Annual runoff”)

Instantaneous discharge is the discharge at a particular instant of time. (See also “Discharge”)

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a “less than” (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term ‘non-detection value’ (NDV).

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

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

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

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

where I_o 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

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

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.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

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 usually are 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.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

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.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

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.

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-

percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). 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. One microgram per liter is equivalent to 1 part per billion.

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 milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

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 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, 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> (See "North American Vertical Datum of 1988")

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

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

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

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 sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a 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. (See also “Ash mass,” “Biomass,” and “Dry mass”)

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 (m²), 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.

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 USGS 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 uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedi-graph) 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, as 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
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

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, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, 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. Although 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 7.0 standard units are termed “acidic,” and solutions with a pH greater than 7.0 are termed “basic.” Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are 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 commonly are known as algae. (See also “Plankton”)

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 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.

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

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

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. The 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 with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

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. The 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. (See also “Primary productivity”)

Radioisotopes are isotopic forms of elements 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.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Bed material”)

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occur-

rences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance 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 nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. 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.

Return period (See “Recurrence interval”)

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged (“runs off”) from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also “Annual runoff”)

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater

has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also “Annual 7-day minimum” and “Recurrence interval”)

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

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. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an elec-

trical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water 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 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 water, to evaluate mixing of different water, 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.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory proce-

dures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that 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 water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Suspended”)

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also “Sediment”)

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 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. 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. (See also “Sediment”)

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-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 directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

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.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

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>

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term “temperature recorder” is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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 resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (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 a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

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 warmblooded 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 milliliters of sample. (See also “Bacteria”)

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 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 organism count is the number of organisms collected and enumerated in any particular sample. (See also “Organism count/volume”)

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also “Bedload,” “Bedload discharge,” “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also “Sediment,” “Suspended-sediment load,” and “Total load”)

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, in ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting

units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400–680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780–900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400–680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400–680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400–680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400–680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400–680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780–900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780–900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780–900 nm] or monochrome light source, 30 ± 15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780–900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780–900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic sub-

stances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See “Water-table aquifer”)

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See “Datum”)

Volatile organic compounds (VOCs) 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 VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are 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.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

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

Water year in USGS 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, 2002, is called the “2002 water year.”

Watershed (See “Drainage basin”)

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.)

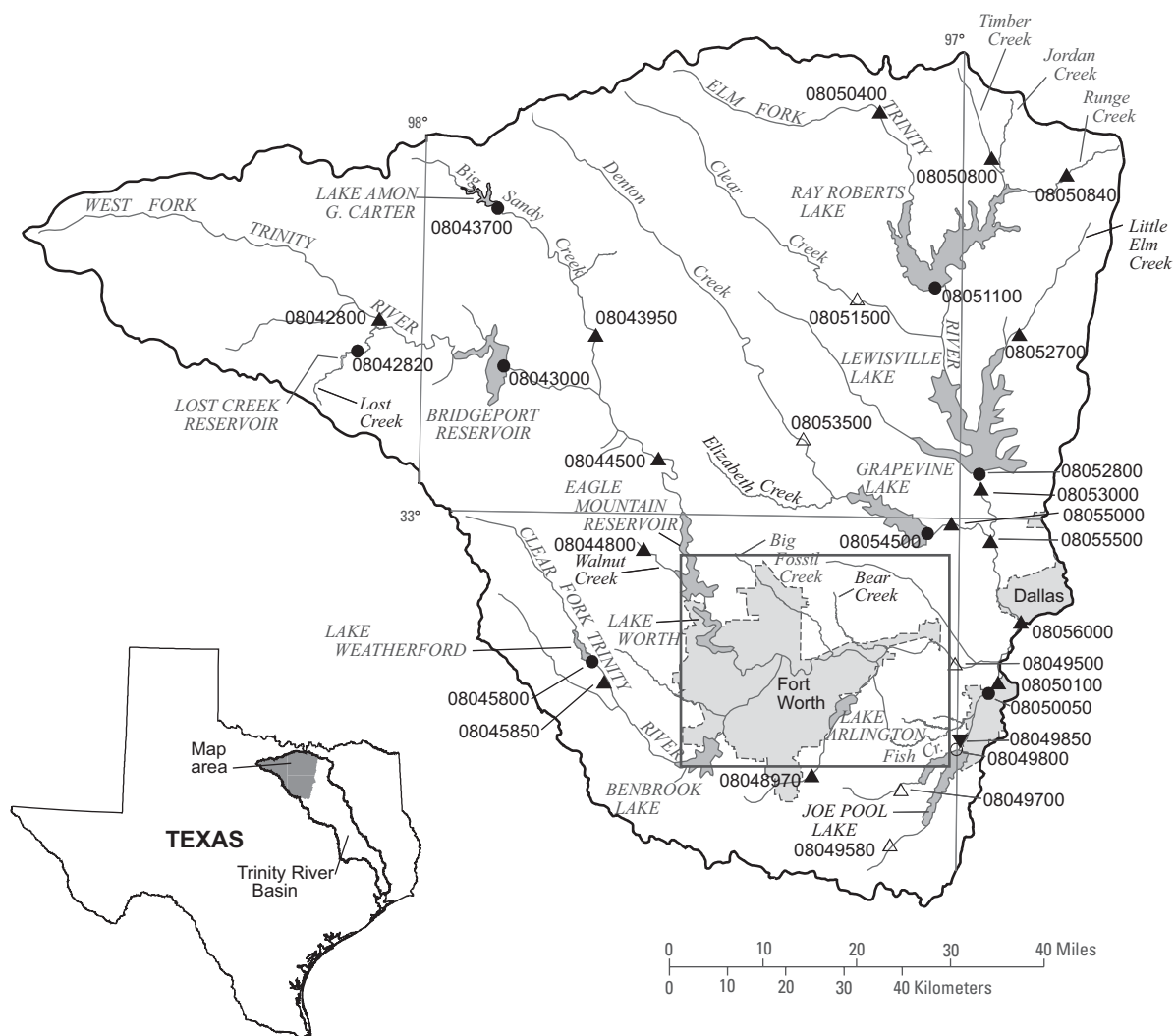
Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted 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.

Wet mass is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

WSP is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

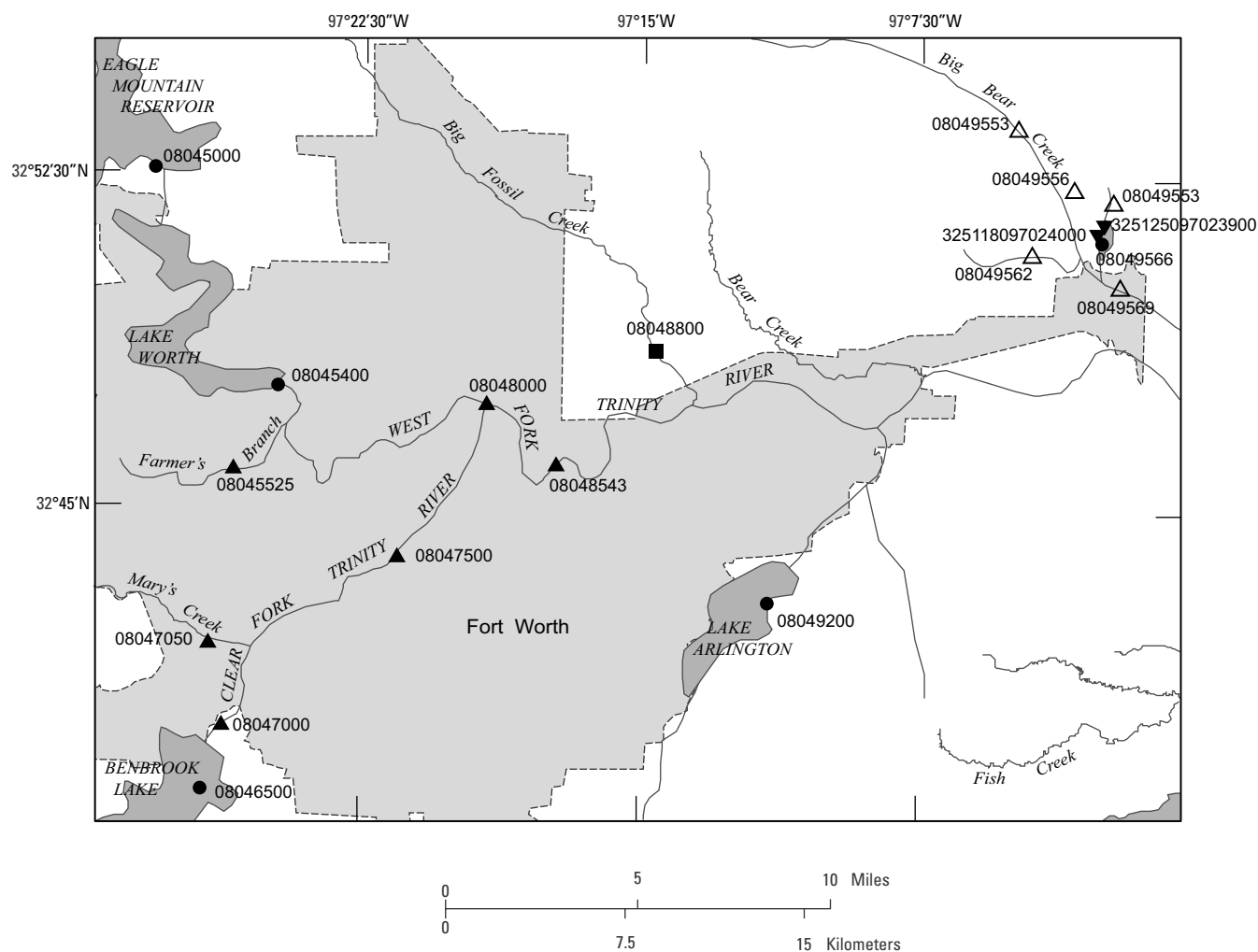
Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also “Plankton”)



EXPLANATION

- | | | |
|----------|---|---|
| 08042800 | ▲ | Surface-water continuous station and number |
| 08048543 | △ | Surface-water continuous/water-quality station and number |
| 08045000 | ● | Reservoir station and number |
| 08054500 | ○ | Reservoir/water-quality station and number |
| 08053800 | ▼ | Water-quality station and number |

Figure 3.--Map showing location of gaging stations in the first section of the Trinity River Basin



EXPLANATION

- 08045525 ▲ Surface-water continuous station and number
- 08049562 △ Surface-water continuous/water-quality station and number
- 08049200 ● Reservoir station and number
- 08049200 ○ Reservoir/water-quality station and number
- 08048800 ■ Surface-water partial record/stage only station and number
- 325125097023900 ▼ Water-quality station and number

Figure 4.--Map showing location of gaging stations in the Fort Worth inset of the Trinity River Basin.

08042800	West Fork Trinity River near Jacksboro, TX	34
08042820	Lost Creek Reservoir near Jacksboro, TX	36
08043000	Bridgeport Reservoir above Bridgeport, TX	38
08043700	Lake Amon G. Carter near Bowie, TX	40
08043950	Big Sandy Creek near Chico, TX	42
08044500	West Fork Trinity River near Boyd, TX	44
08044800	Walnut Creek at Reno, TX	46
08045000	Eagle Mountain Reservoir above Fort Worth, TX	48
08045400	Lake Worth above Fort Worth, TX	50
08045525	Farmers Branch at Westworth Village, TX	52
08045800	Lake Weatherford near Weatherford, TX	54
08045850	Clear Fork Trinity River near Weatherford, TX	56
08046500	Benbrook Lake near Benbrook, TX	58
08047000	Clear Fork Trinity River near Benbrook, TX	60
08047050	Mary's Creek at Benbrook, TX	62
08047500	Clear Fork Trinity River at Fort Worth, TX	64
08048000	West Fork Trinity River at Fort Worth, TX	66
08048543	West Fork Trinity River at Beach Street, Fort Worth, TX	68
08048800	Big Fossil Creek at Haltom City, TX	443
08048970	Village Creek at Everman, TX	70
08049200	Lake Arlington at Arlington, TX	72
08049500	West Fork Trinity River at Grand Prairie, TX	74
08049553	Big Bear Creek at Euless/Grapevine Road near Grapevine, TX	86
08049556	Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX	106
08049562	Blessing Branch at Euless, TX	126
08049565	Trigg Branch at DFW Airport near Euless, TX	136
08049566	Trigg Branch at DFW Airport near Fort Worth, TX	156
08049569	Big Bear Creek at State Highway 183 near Euless, TX	176
08049580	Mountain Creek near Venus, TX	192
08049700	Walnut Creek near Mansfield, TX	198
08049800	Joe Pool Lake near Duncanville, TX	202
08049850	Mountain Creek above Duncanville, TX	214
08050050	Mountain Creek Lake near Grand Prairie, TX	216
08050100	Mountain Creek at Grand Prairie, TX	218
08050400	Elm Fork Trinity River at Gainesville, TX	220
08050800	Timber Creek near Collinsville, TX	222
08050840	Range Creek near Collinsville, TX	224
08051100	Ray Roberts Lake near Pilot Point, TX	226
08051500	Clear Creek near Sanger, TX	228
08052700	Little Elm Creek near Aubrey, TX	232
08052800	Lewisville Lake near Lewisville, TX	234
08053000	Elm Fork Trinity River near Lewisville, TX	236
08053500	Denton Creek near Justin, TX	238
08054500	Grapevine Lake near Grapevine, TX	240
08055000	Denton Creek near Grapevine, TX	242
08055500	Elm Fork Trinity River near Carrollton, TX	244
08056000	Elm Fork Trinity River at Frasier Dam, Dallas, TX	246
325118097024000	Trigg Lake near dam at DFW Airport near Ft Worth, TX	416
325125097023900	Trigg Lake Upper Reach at DFW Airport near Ft Worth, TX	434

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TRINITY RIVER BASIN

34

08042800 West Fork Trinity River near Jacksboro, TX

LOCATION.--Lat 33°17'30", long 98°04'49", Jack County, Hydrologic Unit 12030101, on upstream side of bridge on State Highway 59, 4.0 mi downstream from Big Cleveland Creek, 7.0 mi upstream from Carroll Creek, 7.0 mi northeast of Jacksboro and at mile 660.

DRAINAGE AREA.--683 mi².

PERIOD OF RECORD.--Mar. 1956 to current year. Water-quality records: Sediment data: Oct. 1976 to Sept. 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 869.28 ft above NGVD of 1929 (from Texas Department of Transportation). Sept. 1960 to May 1961, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1974, at least 10% of contributing drainage area has been regulated. Flow affected at times by discharge from the floodwater-retarding structures controlling runoff from 70.9 mi² in the West Fork Trinity River drainage basin upstream from this station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--17 years (water years 1957-73), 104 ft³/s (75,350 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1941 reached a stage of 30 ft, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1956-1973: Maximum discharge, 35,100 ft³/s, Apr. 27, 1957, gage height, 32.10 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.09	0.00	0.00	0.00	0.00	40	0.06	10	2.7	330	981	17
2	0.00	0.00	0.00	0.00	0.00	27	0.03	15	19	144	1,300	7.1
3	0.00	0.00	0.00	0.00	0.00	16	0.03	10	455	63	738	3.6
4	0.00	0.00	0.00	0.00	0.00	24	0.02	7.2	309	29	44	2.1
5	0.00	0.00	0.00	0.00	0.00	84	0.01	4.5	100	14	14	1.6
6	0.00	0.00	0.00	0.00	0.00	190	0.03	3.5	189	7.7	7.6	1.1
7	0.00	1.0	0.00	0.00	0.00	136	0.05	3.3	3,940	5.0	4.3	1.0
8	0.00	0.34	0.00	0.00	0.00	57	0.04	2.9	6,250	3.3	2.8	0.75
9	0.00	0.13	0.00	0.00	0.00	23	0.02	2.3	3,410	2.7	2.0	0.58
10	0.00	0.05	0.00	0.00	0.00	12	0.02	2.1	2,000	2.1	1.6	0.46
11	0.00	0.02	0.00	0.00	0.00	7.7	0.01	1.9	933	1.4	1.2	0.35
12	0.00	0.01	0.00	0.00	0.00	5.0	0.01	2.0	274	1.1	0.89	0.24
13	0.00	0.00	0.00	0.00	0.00	4.1	0.01	17	160	0.84	0.75	0.10
14	0.00	0.00	0.00	0.00	0.00	4.1	0.00	117	116	0.67	0.61	0.05
15	0.00	0.00	0.00	0.00	0.00	3.5	0.00	109	93	0.46	0.52	0.02
16	0.00	0.00	0.00	0.00	0.00	4.2	0.00	53	78	0.23	0.37	0.01
17	0.00	0.00	0.00	0.00	0.00	8.5	0.00	18	67	0.12	0.12	0.00
18	0.00	0.00	0.00	0.00	0.00	5.2	0.00	8.8	55	0.09	0.07	0.00
19	0.00	0.00	0.00	0.00	0.00	3.3	0.00	5.0	30	0.05	0.05	0.00
20	0.00	0.00	0.00	0.00	0.00	2.9	0.00	3.3	18	0.02	0.06	0.00
21	0.00	0.00	0.00	0.00	0.00	2.4	0.00	2.6	12	e0.01	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	1.9	0.00	2.4	9.8	e0.01	0.04	0.00
23	0.00	0.00	0.00	0.00	2.0	1.4	0.00	2.5	22	e0.01	0.02	0.00
24	0.00	0.00	0.00	0.00	11	1.1	502	2.3	17	e5.0	0.01	0.00
25	0.00	0.00	0.00	0.00	201	0.93	845	1.7	8.8	e7.2	0.00	0.00
26	0.00	0.00	0.00	0.00	164	0.79	912	1.5	6.6	e11	0.00	0.00
27	0.00	0.00	0.00	0.00	104	0.68	487	1.6	5.2	5.8	0.00	0.00
28	0.00	0.00	0.00	0.00	75	0.55	79	1.6	4.2	90	0.00	0.00
29	0.00	0.00	0.00	0.00	57	0.41	30	1.3	4.3	824	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.26	14	1.2	35	997	0.10	0.00
31	0.00	---	0.00	0.00	---	0.11	---	1.00	---	751	38	---
TOTAL	0.09	1.55	0.00	0.00	614.00	668.03	2,869.34	415.50	18,623.6	3,296.81	3,138.17	36.06
MEAN	0.00	0.05	0.00	0.00	21.2	21.5	95.6	13.4	621	106	101	1.20
MAX	0.09	1.0	0.00	0.00	201	190	912	117	6,250	997	1,300	17
MIN	0.00	0.00	0.00	0.00	0.00	0.11	0.00	1.0	2.7	0.01	0.00	0.00
AC-FT	0.2	3.1	0.00	0.00	1,220	1,330	5,690	824	36,940	6,540	6,220	72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004z, BY WATER YEAR (WY)

MEAN	129	39.4	56.3	30.9	97.5	120	120	329	258	28.2	18.4	41.2
MAX	2,363	219	1,025	369	1,049	697	2,383	3,127	1,689	251	134	332
(WY)	(1982)	(1975)	(1992)	(1985)	(1997)	(1990)	(1990)	(1989)	(1989)	(1975)	(1989)	(1996)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1978)	(1978)	(1978)	(1978)	(1978)	(1978)	(1980)	(1984)	(1984)	(1978)	(1980)	(1982)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

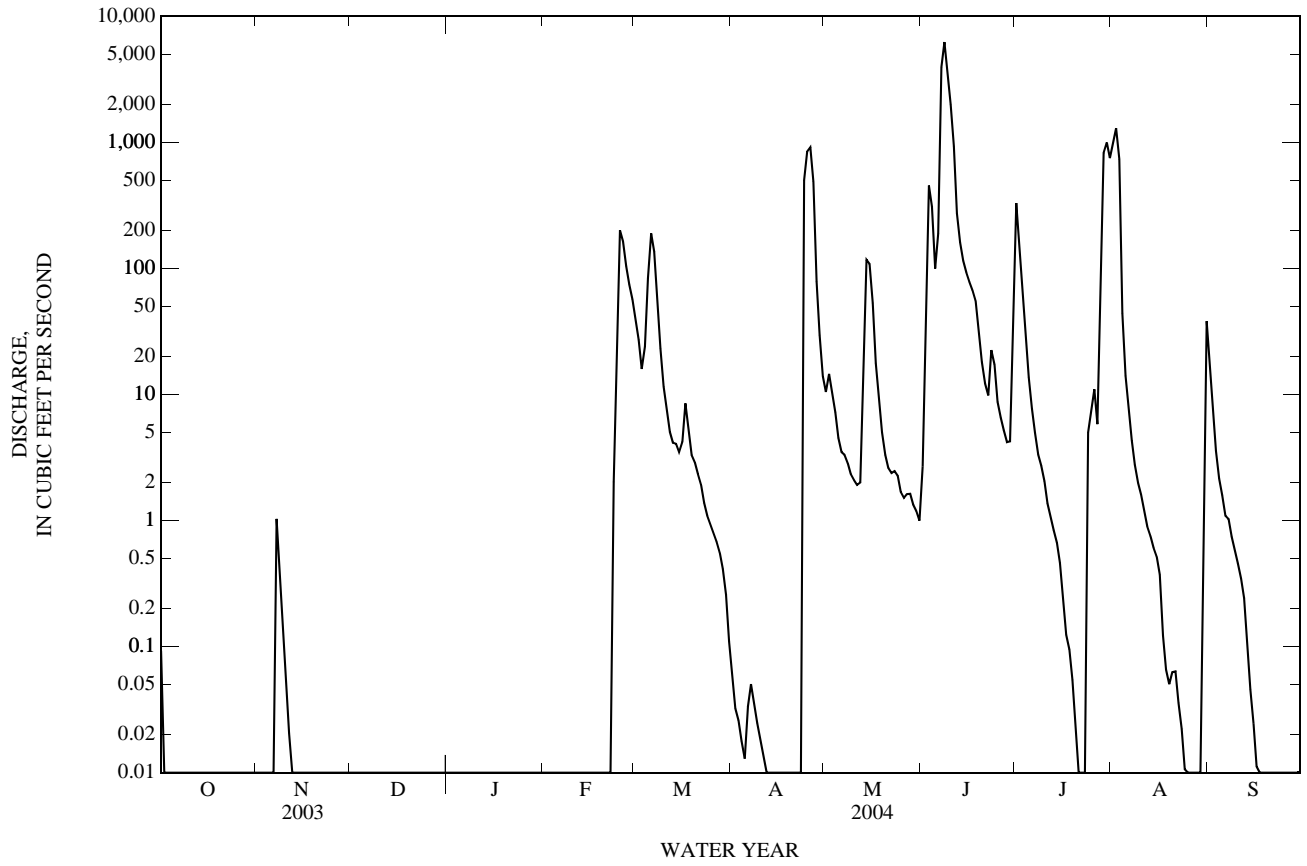
WATER YEARS 1974 - 2004z

ANNUAL TOTAL	14,033.68	29,663.15	
ANNUAL MEAN	38.4	81.0	106
HIGHEST ANNUAL MEAN			468
LOWEST ANNUAL MEAN			0.07
HIGHEST DAILY MEAN	2,120	Jun 14	29,100
LOWEST DAILY MEAN	0.00	Feb 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 1	0.00
MAXIMUM PEAK FLOW			6,990
MAXIMUM PEAK STAGE			23.36
ANNUAL RUNOFF (AC-FT)	27,840	58,840	76,560
10 PERCENT EXCEEDS	6.4	76	131
50 PERCENT EXCEEDS	0.00	0.02	0.84
90 PERCENT EXCEEDS	0.00	0.00	0.00

z Period of regulated streamflow.

e Estimated

08042800 West Fork Trinity River near Jacksboro, TX—Continued



08042820 Lost Creek Reservoir near Jacksboro, TX

LOCATION.--Lat 33°14'36", long 98°07'11", Jack County, Hydrologic Unit 12030101, located on north streamward side of dam on Lost Creek 3.0 mi northeast of Jacksboro.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--Mar. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a zoned earth and rock fill embankment 2,245 ft long. The dam was completed and storage began in early to mid 1990. A 60-inch diameter reinforced concrete tower serves as the principal spillway. The emergency spillway is an earth-cut side-channel spillway. The dam was built by the city of Jacksboro to impound water for municipal and recreational use. There was no known diversion from the lake during the current water year. Data regarding the dam is given in the following table:

	Elevation (feet)
Top of dam	1,028.0
Crest of spillway	1,009.0
Crest of emergency spillway	1,016.0
Lowest gated outlet (invert)	947.0

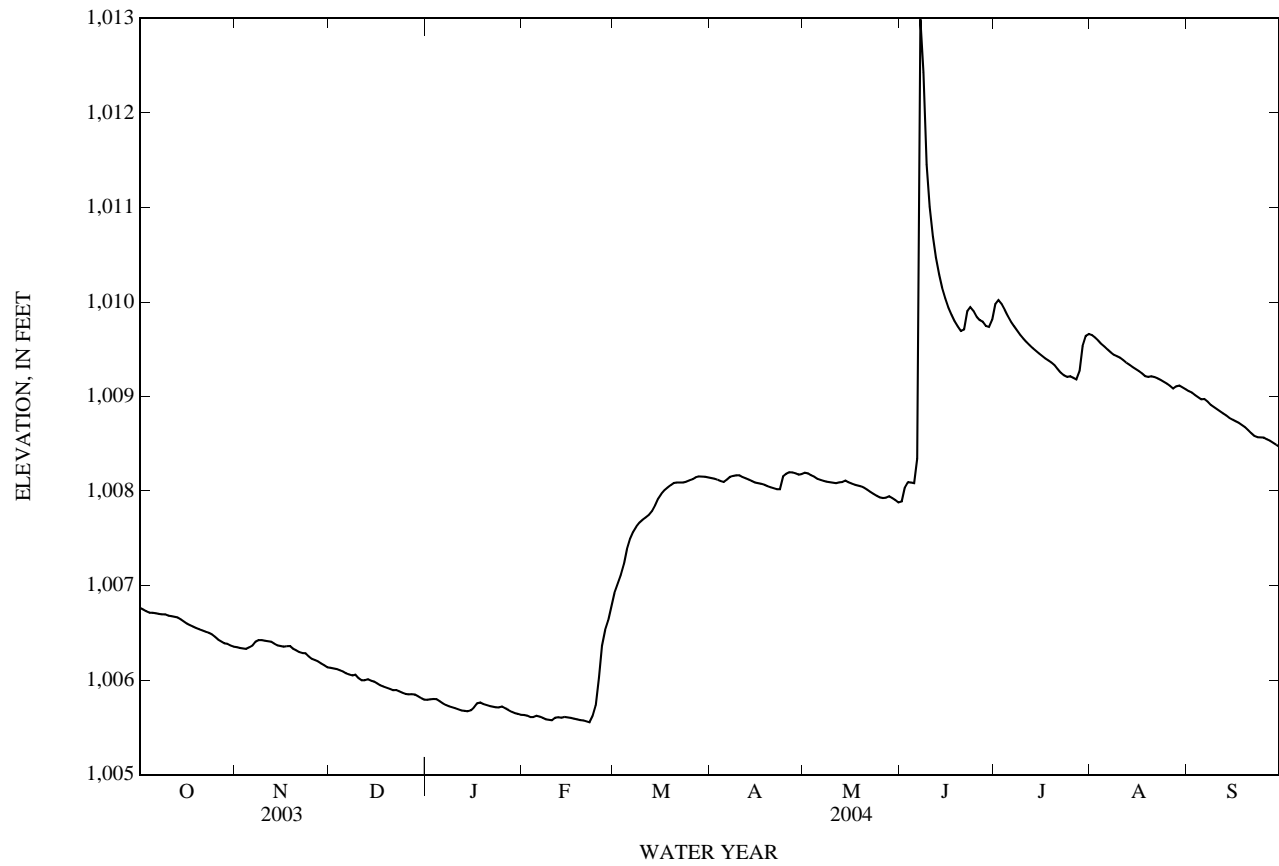
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 13,440 acre-ft, Feb. 16, 2001, elevation, 1012.95 ft; minimum contents, 8,680 acre-ft, Oct. 20, 2000, elevation, 1000.56 ft; maximum elevation, 1014.23 ft, June 7, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,014.23 ft, June 7; minimum elevation, 1,005.54 ft, Feb. 23.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,006.76	1,006.35	1,006.13	1,005.79	1,005.63	1,006.92	1,008.14	1,008.19	1,007.89	1,009.98	1,009.65	1,009.06
2	1,006.75	1,006.34	1,006.12	1,005.80	1,005.62	1,007.01	1,008.13	1,008.19	1,008.03	1,010.02	1,009.62	1,009.04
3	1,006.73	1,006.34	1,006.12	1,005.80	1,005.61	1,007.11	1,008.12	1,008.17	1,008.09	1,009.98	1,009.59	1,009.02
4	1,006.71	1,006.33	1,006.10	1,005.80	1,005.61	1,007.23	1,008.11	1,008.15	1,008.09	1,009.92	1,009.56	1,008.99
5	1,006.71	1,006.35	1,006.09	1,005.78	1,005.62	1,007.38	1,008.10	1,008.13	1,008.08	1,009.85	1,009.53	1,008.97
6	1,006.71	1,006.37	1,006.07	1,005.75	1,005.62	1,007.50	1,008.12	1,008.12	1,008.34	1,009.79	1,009.50	1,008.97
7	1,006.70	1,006.41	1,006.06	1,005.74	1,005.60	1,007.57	1,008.15	1,008.11	1,012.99	1,009.74	1,009.47	1,008.95
8	1,006.70	1,006.42	1,006.05	1,005.72	1,005.59	1,007.62	1,008.16	1,008.10	1,012.43	1,009.70	1,009.44	1,008.91
9	1,006.70	1,006.42	1,006.06	1,005.71	1,005.58	1,007.67	1,008.17	1,008.09	1,011.45	1,009.65	1,009.42	1,008.89
10	1,006.68	1,006.42	1,006.02	1,005.70	1,005.58	1,007.70	1,008.17	1,008.09	1,011.01	1,009.61	1,009.41	1,008.87
11	1,006.68	1,006.41	1,006.00	1,005.69	1,005.60	1,007.72	1,008.15	1,008.08	1,010.70	1,009.58	1,009.38	1,008.84
12	1,006.67	1,006.41	1,006.00	1,005.68	1,005.61	1,007.75	1,008.13	1,008.09	1,010.47	1,009.54	1,009.36	1,008.82
13	1,006.66	1,006.39	1,006.01	1,005.67	1,005.60	1,007.78	1,008.12	1,008.10	1,010.29	1,009.51	1,009.34	1,008.80
14	1,006.64	1,006.37	1,005.99	1,005.67	1,005.61	1,007.85	1,008.11	1,008.11	1,010.15	1,009.48	1,009.31	1,008.77
15	1,006.62	1,006.36	1,005.99	1,005.68	1,005.61	1,007.92	1,008.09	1,008.09	1,010.04	1,009.46	1,009.29	1,008.75
16	1,006.60	1,006.35	1,005.96	1,005.71	1,005.60	1,007.97	1,008.08	1,008.08	1,009.94	1,009.43	1,009.27	1,008.74
17	1,006.58	1,006.36	1,005.94	1,005.75	1,005.59	1,008.01	1,008.08	1,008.07	1,009.86	1,009.40	1,009.24	1,008.72
18	1,006.57	1,006.36	1,005.93	1,005.76	1,005.59	1,008.04	1,008.07	1,008.06	1,009.80	1,009.38	1,009.22	1,008.70
19	1,006.55	1,006.33	1,005.92	1,005.75	1,005.58	1,008.06	1,008.05	1,008.05	1,009.74	1,009.36	1,009.21	1,008.68
20	1,006.54	1,006.32	1,005.91	1,005.74	1,005.57	1,008.09	1,008.04	1,008.03	1,009.69	1,009.33	1,009.21	1,008.65
21	1,006.52	1,006.30	1,005.89	1,005.73	1,005.56	1,008.09	1,008.03	1,008.01	1,009.71	1,009.29	1,009.21	1,008.61
22	1,006.51	1,006.29	1,005.90	1,005.72	1,005.55	1,008.09	1,008.02	1,007.99	1,009.90	1,009.25	1,009.19	1,008.58
23	1,006.50	1,006.28	1,005.88	1,005.71	1,005.62	1,008.09	1,008.02	1,007.97	1,009.95	1,009.22	1,009.17	1,008.57
24	1,006.49	1,006.25	1,005.87	1,005.71	1,005.73	1,008.10	1,008.15	1,007.95	1,009.90	1,009.21	1,009.16	1,008.57
25	1,006.46	1,006.23	1,005.86	1,005.72	1,006.03	1,008.11	1,008.18	1,007.93	1,009.85	1,009.22	1,009.14	1,008.57
26	1,006.43	1,006.21	1,005.85	1,005.70	1,006.36	1,008.12	1,008.20	1,007.93	1,009.81	1,009.20	1,009.11	1,008.55
27	1,006.41	1,006.20	1,005.85	1,005.68	1,006.53	1,008.14	1,008.20	1,007.93	1,009.79	1,009.18	1,009.08	1,008.53
28	1,006.39	1,006.18	1,005.85	1,005.66	1,006.63	1,008.15	1,008.19	1,007.95	1,009.75	1,009.27	1,009.11	1,008.51
29	1,006.38	1,006.16	1,005.83	1,005.65	1,006.78	1,008.15	1,008.17	1,007.93	1,009.74	1,009.53	1,009.12	1,008.49
30	1,006.37	1,006.14	1,005.81	1,005.64	---	1,008.15	1,008.18	1,007.90	1,009.81	1,009.64	1,009.10	1,008.47
31	1,006.35	---	1,005.79	1,005.63	---	1,008.14	---	1,007.88	---	1,009.66	1,009.08	---
MEAN	1,006.58	1,006.32	1,005.96	1,005.72	1,005.75	1,007.81	1,008.12	1,008.05	1,009.84	1,009.53	1,009.31	1,008.75
MAX	1,006.76	1,006.42	1,006.13	1,005.80	1,006.78	1,008.15	1,008.20	1,008.19	1,012.99	1,010.02	1,009.65	1,009.06
MIN	1,006.35	1,006.14	1,005.79	1,005.63	1,005.55	1,006.92	1,008.02	1,007.88	1,007.89	1,009.18	1,009.08	1,008.47
CAL YR	2003	MEAN	1,005.73	MAX	1,007.18	MIN	1,004.53					
WTR YR	2004	MEAN	1,007.65	MAX	1,012.99	MIN	1,005.55					

08042820 Lost Creek Reservoir near Jacksboro, TX—Continued



08043000 Bridgeport Reservoir above Bridgeport, TX

LOCATION.--Lat 33°13'22", long 97°49'54", Wise County, Hydrologic Unit 12030101, in brick valve house on upstream side and near left end of Bridgeport Dam on West Fork Trinity River, 4.6 mi west of Bridgeport, 13.0 mi upstream from Big Sandy Creek and at mile 626.

DRAINAGE AREA.--1,111 mi².

PERIOD OF RECORD.--Apr. 1932 to current year. Prior to Oct. 1950, end of month values only.

Water-quality records: Chemical data: Oct. 1969 to Sept. 1984.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Jan. 12, 1988, nonrecording gages at various sites in vicinity of present gage at present datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 2,040 ft long. The dam was completed in Dec. 1931 and storage began Apr. 1, 1932. The original dam was 1,900 ft long, but was lengthened to 2,040 ft in 1971-72. The original service spillway was eliminated during construction (1971-72), and a new spillway with approach and discharge channels was built through natural ground 2,800 ft from the left end of dam. The new spillway is 90 ft wide and has eight vertical lift gates that are 11.25 x 22-ft. The controlled outlet works consist of a 48-inch diameter and an 18-inch diameter pipe encased in a concrete conduit extending through the dam. In addition, a controlled 60-inch diameter steel pipe extends through the service spillway wall to the spillway discharge basin. The dam is owned by the Tarrant Regional Water District. For elevations of outlet works, see table below. Capacity tables are based on surveys made in 1956 and 1968. Conservation pool storage is 374,836 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	874.0
Crest of spillway	866.0
Top of gates	842.0
Top of conservation pool	836.9
Sill of gates	820.0
Lowest value outlet (invert)	751.4

COOPERATION.--Capacity table No. 5-C dated Oct. 1, 1988, was provided by Tarrant Regional Water District.

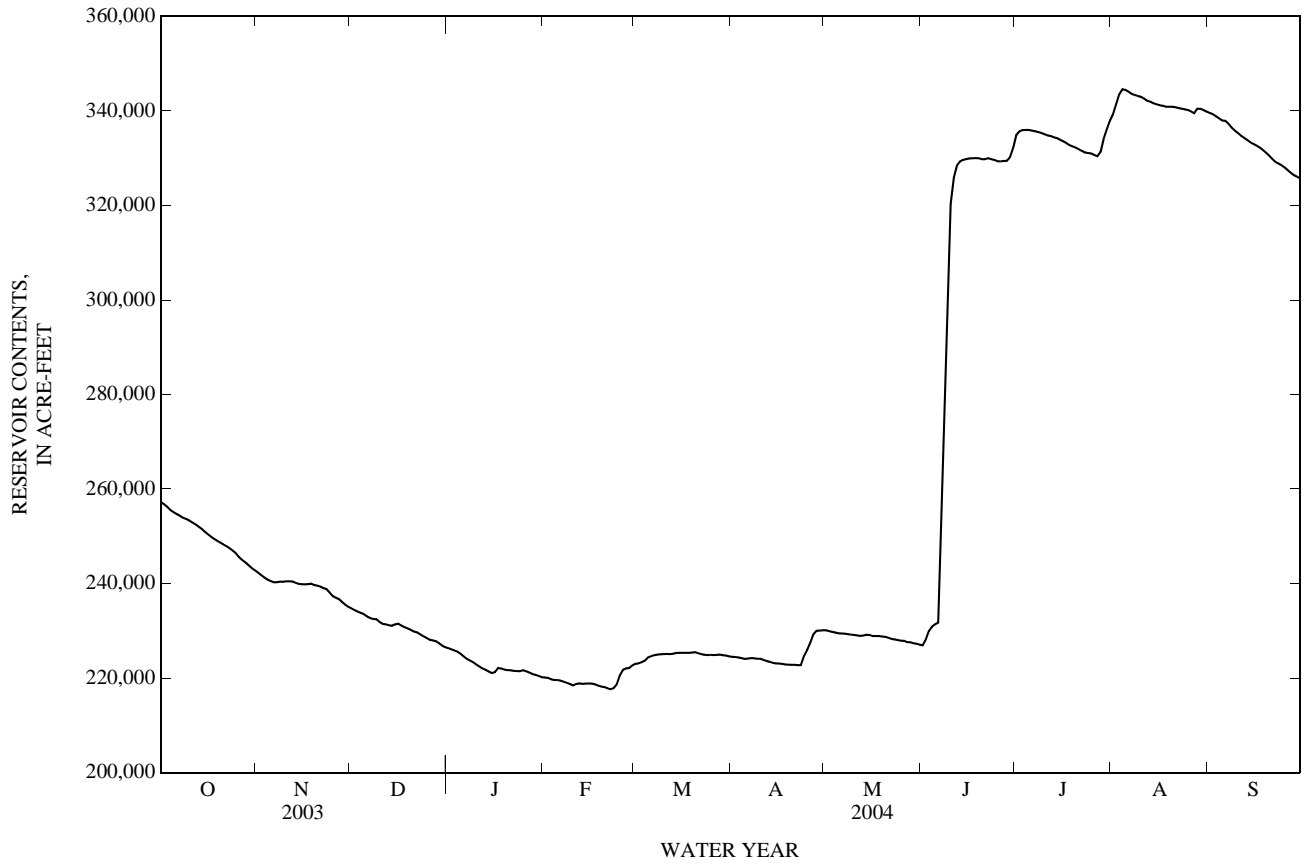
EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 491,700 acre-ft, May 5, 1990, elevation, 844.36 ft; minimum contents observed since first appreciable storage in 1935, 7,170 acre-ft, Oct. 12-16, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 344,600 acre-ft, Aug. 4, 5, elevation, 834.12 ft; minimum contents, 217,500 acre-ft, Feb. 22, 23, elevation, 821.71 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257,200	242,300	234,800	226,300	220,100	223,000	224,500	230,100	227,000	334,900	339,300	339,600
2	256,800	241,800	234,400	226,100	220,000	223,100	224,500	230,000	228,100	335,700	341,300	339,300
3	256,200	241,300	234,100	225,800	219,700	223,400	224,400	229,800	230,000	335,900	343,500	338,900
4	255,500	240,900	233,800	225,600	219,600	223,700	224,200	229,700	230,900	336,000	344,600	338,400
5	255,100	240,500	233,500	225,100	219,600	224,400	224,100	229,500	231,400	336,000	344,400	338,000
6	254,700	240,300	233,100	224,600	219,500	224,600	224,100	229,500	231,700	335,800	344,100	337,900
7	254,300	240,300	232,700	224,100	219,200	224,900	224,200	229,400	252,600	335,700	343,600	337,300
8	253,900	240,400	232,500	223,700	219,000	225,000	224,200	229,300	277,500	335,500	343,300	336,500
9	253,700	240,400	232,500	223,400	218,800	225,100	224,100	229,200	300,600	335,300	343,200	335,800
10	253,300	240,500	231,900	222,900	218,400	225,100	224,100	229,100	320,300	335,000	343,000	335,300
11	252,900	240,500	231,500	222,400	218,800	225,100	223,800	229,000	325,900	334,800	342,600	334,700
12	252,500	240,400	231,400	222,000	218,900	225,100	223,600	228,900	328,400	334,700	342,100	334,300
13	252,100	240,200	231,200	221,700	218,800	225,200	223,400	229,000	329,300	334,400	341,900	333,800
14	251,600	239,900	231,100	221,400	218,900	225,300	223,200	229,200	329,600	334,200	341,600	333,400
15	251,000	239,900	231,400	221,100	218,900	225,400	223,100	229,100	329,800	333,900	341,400	333,000
16	250,400	239,800	231,500	221,300	218,900	225,300	223,100	228,900	329,900	333,600	341,200	332,600
17	249,900	239,900	231,100	222,100	218,700	225,300	223,000	228,900	330,000	333,200	341,100	332,200
18	249,500	240,000	230,800	222,000	218,400	225,300	222,900	228,900	330,000	332,800	340,900	331,700
19	249,000	239,700	230,500	221,800	218,200	225,400	222,800	228,800	330,000	332,500	340,900	331,200
20	248,700	239,600	230,200	221,700	218,100	225,500	222,800	228,700	329,800	332,200	340,900	330,600
21	248,300	239,400	229,900	221,600	217,900	225,300	222,800	228,500	329,800	331,900	340,800	329,800
22	247,900	239,000	229,700	221,500	217,600	225,100	222,700	228,300	330,000	331,500	340,600	329,200
23	247,500	238,800	229,300	221,500	217,900	224,900	222,800	228,200	329,800	331,200	340,500	328,800
24	247,000	238,100	228,900	221,500	218,600	224,900	224,700	228,100	329,600	331,100	340,300	328,500
25	246,400	237,300	228,500	221,700	220,600	224,900	225,900	227,900	329,300	331,000	340,200	328,000
26	245,600	237,000	228,100	221,400	221,700	224,900	227,500	227,900	329,300	330,700	339,900	3

08043000 Bridgeport Reservoir above Bridgeport, TX—Continued



08043700 Lake Amon G. Carter near Bowie, TX

LOCATION.--Lat 33°28'08", long 97°51'56", Montague County, Hydrologic Unit 12030101, on Big Sandy Creek, in pumping station 7.1 mi south of Bowie.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--Mar. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. In 1954 the original lake was formed by an earthfill dam 2,000 ft across Big Sandy Creek for the city of Bowie. In 1985 a new reservoir dam was completed 1.0 mi below the old dam. The old and new portions of the reservoir are connected by a corrugated metal pipe arch culvert (boat pass breach) with an invert elevation of 908 ft NGVD of 1929. The reservoirs are also connected by a 12 in siphon pipe through the old dam. Both reservoirs employ the emergency spillway on the old reservoir to pass flood water above elevation of 927 ft NGVD of 1929. The principal spillway tower has a 24 ft uncontrolled weir at 920 ft NGVD of 1929. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of new dam	945.0
Crest of spillway	927.0
Uncontrolled weir	920.0
Pipe arch culvert (boat pass breach)	908.0

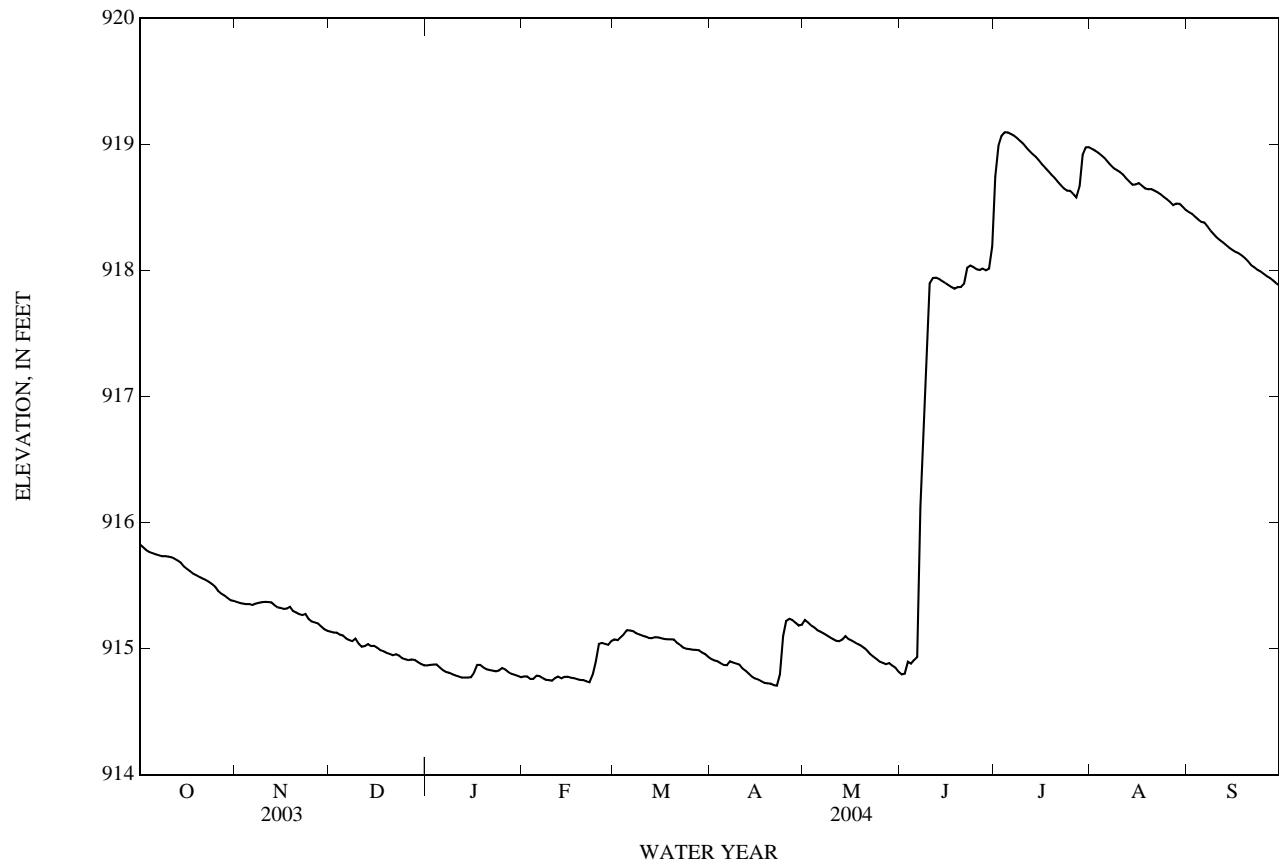
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 38,060 acre-ft, Mar. 1, 2001, elevation, 924.46 ft; minimum contents, 14,180 acre-ft, Oct. 13, 2000, elevation, 910.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 919.11 ft, July 4, 5; minimum elevation, 914.67 ft, Apr. 22.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915.83	915.37	915.13	914.87	914.78	915.07	914.92	915.23	914.80	918.74	918.96	918.46
2	915.80	915.36	915.13	914.87	914.78	915.07	914.91	915.21	914.80	918.99	918.95	918.45
3	915.78	915.36	915.13	914.87	914.76	915.09	914.90	915.18	914.90	919.07	918.93	918.43
4	915.77	915.35	915.11	914.88	914.76	915.11	914.89	915.17	914.88	919.10	918.91	918.41
5	915.76	915.35	915.10	914.85	914.79	915.15	914.87	915.15	914.91	919.10	918.89	918.39
6	915.75	915.35	915.08	914.83	914.78	915.14	914.87	915.13	914.93	919.08	918.86	918.38
7	915.74	915.36	915.07	914.81	914.77	915.14	914.90	915.12	916.12	919.07	918.84	918.35
8	915.73	915.36	915.06	914.81	914.75	915.12	914.89	915.11	916.71	919.05	918.81	918.32
9	915.73	915.37	915.08	914.80	914.75	915.11	914.88	915.09	917.25	919.03	918.80	918.29
10	915.73	915.37	915.04	914.79	914.74	915.10	914.87	915.08	917.90	919.00	918.78	918.26
11	915.73	915.37	915.02	914.78	914.77	915.10	914.84	915.06	917.94	918.97	918.76	918.24
12	915.71	915.37	915.02	914.77	914.78	915.08	914.82	915.06	917.94	918.95	918.73	918.22
13	915.70	915.35	915.04	914.77	914.76	915.08	914.80	915.07	917.93	918.92	918.70	918.20
14	915.68	915.33	915.02	914.77	914.78	915.09	914.78	915.10	917.92	918.90	918.68	918.18
15	915.65	915.32	915.02	914.77	914.78	915.09	914.76	915.08	917.90	918.87	918.68	918.16
16	915.63	915.31	915.01	914.81	914.77	915.08	914.75	915.06	917.88	918.84	918.69	918.15
17	915.62	915.32	914.99	914.87	914.77	915.08	914.74	915.05	917.87	918.82	918.67	918.14
18	915.59	915.33	914.98	914.87	914.76	915.07	914.73	915.04	917.86	918.79	918.65	918.12
19	915.58	915.30	914.97	914.85	914.75	915.07	914.73	915.02	917.87	918.76	918.64	918.10
20	915.57	915.29	914.96	914.84	914.75	915.07	914.72	915.01	917.87	918.73	918.65	918.07
21	915.56	915.27	914.95	914.83	914.74	915.05	914.71	914.98	917.90	918.71	918.63	918.04
22	915.55	915.27	914.95	914.83	914.73	915.03	914.71	914.96	918.02	918.68	918.62	918.02
23	915.53	915.27	914.94	914.82	914.79	915.01	914.80	914.94	918.04	918.65	918.60	918.00
24	915.51	915.23	914.92	914.83	914.89	915.00	915.10	914.92	918.03	918.63	918.58	917.99
25	915.49	915.21	914.92	914.85	915.04	915.00	915.22	914.90	918.01	918.63	918.57	917.97
26	915.46	915.21	914.91	914.83	915.05	914.99	915.24	914.89	918.00	918.61	918.54	917.96
27	915.44	915.20	914.91	914.81	915.04	914.99	915.23	914.88	918.02	918.58	918.52	917.94
28	915.42	915.18	914.91	914.80	915.03	914.99	915.20	914.89	918.00	918.67	918.53	917.92
29	915.40	915.15	914.89	914.79	915.06	914.97	915.18	914.87	918.01	918.92	918.53	917.90
30	915.38	915.14	914.88	914.78	---	914.96	915.19	914.85	918.19	918.98	918.51	917.88
31	915.38	---	914.87	914.77	---	914.93	---	914.82	---	918.98	918.48	---
MEAN	915.62	915.30	915.00	914.82	914.82	915.06	914.90	915.03	917.21	918.87	918.70	918.16
MAX	915.83	915.37	915.13	914.88	915.06	915.15	915.24	915.23	918.19	919.10	918.96	918.46
MIN	915.38	915.14	914.87	914.77	914.73	914.93	914.71	914.82	914.80	918.58	918.48	917.88
WTR YR	2004	MEAN	916.13	MAX	919.10	MIN	914.71					

08043700 Lake Amon G. Carter near Bowie, TX—Continued



08043950 Big Sandy Creek near Chico, TX

LOCATION.--Lat 33°16'27", long 97°40'42", Wise County, Hydrologic Unit 12030101, at left downstream side of bridge on Farm Road 1810, 4.5 mi upstream from Greathouse Branch, 6.0 mi east of Chico, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--312 mi².

PERIOD OF RECORD.--Oct. 1936 to Aug. 2004 (discontinued). Prior to 1996 water year, published as "near Bridgeport" (station 08044000).

Water-quality records: Chemical data: Apr. 1993 to Sept. 1995. Biochemical data: Apr. 1993 to Sept. 1995.

Sediment data: Apr. 1993 to Sept. 1995.

REVISED RECORDS.--WSP 1148: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 728.88 ft above NGVD of 1929. Prior to May 24, 1996 at datum of 724.44 ft, prior to Oct. 1, 1984, at datum 3.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for Feb. 6 to Aug. 31, which are fair. Since May 1, 1956, at least 10% of contributing drainage area has been regulated. During the year, the city of Bowie diverted water from Lake Amon G. Carter for municipal use and discharged wastewater effluent into tributaries to Big Sandy Creek upstream from this station. Flow is also affected at times by discharge from floodwater-retarding structures controlling runoff from a 46.0 mi² area upstream from this station and below Lake Amon G. Carter. No known diversions. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1936-55), 85.6 ft³/s (62,030 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1887 occurred in 1908 and 1915 and reached about the same stage as that of June 10, 1941, at site and datum then in use.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1936-1955: Maximum discharge, 53,000 ft³/s June 10, 1941, gage height, 15.69 ft, at site and datum then in use; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.57	0.43	0.23	0.76	1.3	8.6	1.8	5.3	0.91	1,060	8.1	---
2	0.61	0.46	0.28	0.78	1.1	7.2	1.9	13	1.0	1,030	6.0	---
3	0.65	0.48	0.28	0.77	0.95	5.0	1.7	8.0	2.6	329	4.4	---
4	0.71	0.47	0.28	0.70	1.00	6.1	1.7	5.7	2.3	202	3.1	---
5	0.69	0.52	0.33	0.63	1.4	12	1.7	4.1	1.9	149	2.2	---
6	0.60	0.57	0.29	0.66	1.4	10	2.1	3.4	17	111	1.8	---
7	0.51	0.88	0.31	0.72	1.2	5.4	2.5	2.7	226	68	1.6	---
8	0.44	1.1	0.29	0.76	1.0	3.9	2.4	2.3	271	46	1.5	---
9	0.50	0.67	0.28	0.77	1.0	3.0	2.7	2.0	2,180	32	1.4	---
10	0.54	0.60	0.25	0.88	1.1	3.0	2.7	1.9	3,300	23	1.3	---
11	0.56	0.55	0.27	0.93	1.8	2.6	2.5	2.2	1,200	19	1.1	---
12	0.52	0.47	0.27	0.94	2.0	2.6	2.4	2.6	345	15	1.0	---
13	0.59	0.41	0.33	0.99	1.6	3.0	2.3	2.7	201	12	0.93	---
14	0.57	0.35	0.41	0.98	1.8	3.4	2.1	2.5	117	10	0.92	---
15	0.54	0.30	0.45	1.0	2.4	3.5	2.1	4.9	78	8.7	0.95	---
16	0.52	0.24	0.35	1.3	2.0	3.3	2.2	4.6	61	7.5	1.0	---
17	0.46	0.26	0.35	2.2	1.7	3.3	2.0	3.0	48	6.5	1.2	---
18	0.40	0.24	0.33	2.1	1.7	2.9	1.9	2.2	39	5.7	1.5	---
19	0.40	0.25	0.37	1.7	1.9	2.9	1.7	1.8	35	5.0	1.6	---
20	0.43	0.27	0.46	1.6	1.7	2.6	1.7	1.6	161	4.5	1.5	---
21	0.45	0.26	0.52	1.3	1.6	2.0	1.7	1.3	107	3.9	1.3	---
22	0.45	0.26	0.52	1.2	1.6	1.9	1.6	1.2	158	3.3	1.2	---
23	0.45	0.22	0.44	1.1	2.7	2.4	2.1	1.1	126	3.0	1.0	---
24	0.44	0.21	0.46	1.2	7.9	2.7	137	1.1	59	3.4	0.96	---
25	0.43	0.26	0.51	1.7	47	3.0	115	1.2	35	8.7	0.90	---
26	0.40	0.23	0.56	1.4	47	3.0	30	1.2	61	8.7	0.81	---
27	0.53	0.23	0.64	1.2	17	3.2	18	1.1	61	4.3	0.73	---
28	0.73	0.25	0.65	1.2	8.5	2.7	12	1.0	32	27	0.87	---
29	0.88	0.26	0.59	1.1	7.7	2.4	7.8	1.0	28	38	0.90	---
30	0.73	0.23	0.66	1.1	---	2.0	6.3	0.99	133	31	0.78	---
31	0.51	---	0.76	1.3	---	1.9	---	0.91	---	13	0.72	---
TOTAL	16.81	11.93	12.72	34.97	171.05	121.5	373.6	88.60	9,087.71	3,288.2	53.27	---
MEAN	0.54	0.40	0.41	1.13	5.90	3.92	12.5	2.86	303	106	1.72	---
MAX	0.88	1.1	0.76	2.2	47	12	137	13	3,300	1,060	8.1	---
MIN	0.40	0.21	0.23	0.63	0.95	1.9	1.6	0.91	0.91	3.0	0.72	---
AC-FT	33	24	25	69	339	241	741	176	18,030	6,520	106	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004z, BY WATER YEAR (WY)

	93.3	38.2	37.9	27.7	49.8	88.4	99.5	203	132	20.3	10.1	26.0
MAX	1,829	298	743	257	401	570	1,175	1,284	1,250	181	230	491
(WY)	(1982)	(1965)	(1992)	(1992)	(2001)	(1977)	(1957)	(1990)	(1989)	(1973)	(1973)	(1962)
MIN	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1959)	(1956)	(1956)	(1956)	(2000)	(1956)	(1956)	(1980)	(1956)	(1964)	(1957)	(1956)

08043950 Big Sandy Creek near Chico, TX—Continued

SUMMARY STATISTICS

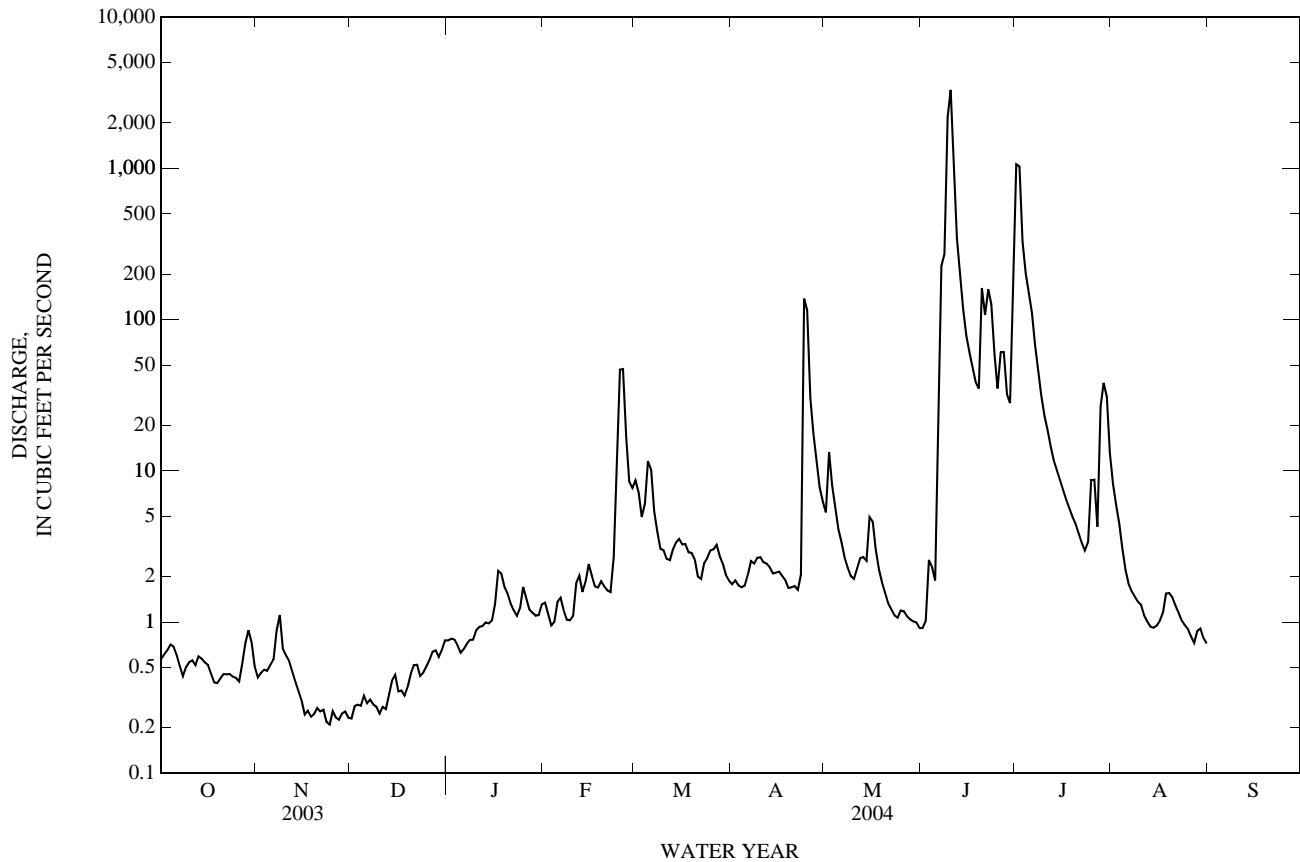
FOR 2003 CALENDAR YEAR

WATER YEARS 1956 - 2004z

ANNUAL TOTAL	4,541.69			
ANNUAL MEAN	12.4		69.6	
HIGHEST ANNUAL MEAN			317	1982
LOWEST ANNUAL MEAN			0.40	2000
HIGHEST DAILY MEAN	649	Jun 13	23,800	Oct 13, 1981
LOWEST DAILY MEAN	0.21	Nov 24	0.00	Oct 1, 1955
ANNUAL SEVEN-DAY MINIMUM	0.24	Nov 22	0.00	Oct 5, 1955
MAXIMUM PEAK FLOW			g45,000	Oct 13, 1981
MAXIMUM PEAK STAGE			14.78	Oct 13, 1981
ANNUAL RUNOFF (AC-FT)	9,010		50,450	
10 PERCENT EXCEEDS	16		89	
50 PERCENT EXCEEDS	3.7		6.0	
90 PERCENT EXCEEDS	0.35		0.00	

z Period of regulated streamflow.

g At site and datum then in use.



TRINITY RIVER BASIN

08044500 West Fork Trinity River near Boyd, TX

LOCATION.--Lat 33°05'07", long 97°33'30", Wise County, Hydrologic Unit 12030101, on right bank on downstream side of highway embankment, 10 ft right of right abutment of bridge on Farm Road 730, 0.6 mi northeast of Boyd, 3.5 mi downstream from Boggy Creek and at mile 602.

DRAINAGE AREA.--1,725 mi².

PERIOD OF RECORD.--Jan. 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.57 ft above NGVD of 1929. Prior to Dec. 14, 1954, water-stage recorder at site 2.2 mi downstream at datum 5.48 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in Jan. 1947, at least 10% of contributing drainage area has been regulated. In addition, flow from 91.2 mi² above station is affected at times by discharge from floodwater-retarding structures in the Big Sandy and Salt Creek drainage basins. No known diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, about 25 ft in May 1908, present site and datum, from information by local residents, who also reported a flood of about the same gage height between 1870-80. A flood in Apr. 1942 reached a stage of 20.6 ft, present site and datum, from information by Texas Department of Transportation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	235	184	148	54	106	12	32	27	533	22	39
2	11	236	183	150	56	38	12	23	435	704	16	39
3	99	238	184	150	54	26	12	25	410	558	14	38
4	191	238	178	149	56	135	12	23	179	258	12	80
5	262	240	138	145	62	367	11	20	49	169	11	124
6	267	251	94	145	57	81	13	18	158	122	9.8	131
7	212	222	95	145	55	36	46	17	7,810	93	8.8	134
8	168	150	96	147	54	25	19	16	3,440	66	8.5	145
9	171	28	97	147	54	21	14	16	6,510	52	8.3	158
10	169	16	97	170	92	19	13	16	6,000	42	7.9	160
11	167	13	100	191	157	18	13	19	3,210	36	7.8	159
12	167	12	102	192	94	17	12	25	1,770	32	7.3	160
13	167	8.5	107	193	19	17	12	19	1,070	27	7.0	160
14	168	7.5	102	191	14	17	11	22	717	25	6.8	163
15	169	7.6	102	192	13	20	10	21	530	22	6.5	173
16	168	7.4	101	200	13	19	9.9	116	450	20	6.7	169
17	167	7.8	100	173	12	17	9.7	35	361	19	6.4	167
18	162	7.6	100	35	39	16	9.6	20	222	17	6.3	164
19	159	8.1	100	17	103	16	9.7	18	211	16	23	164
20	157	8.4	101	14	104	15	9.8	17	397	15	42	163
21	156	7.3	101	13	104	70	9.9	15	230	14	12	181
22	155	18	103	12	104	25	10	14	169	13	9.1	198
23	170	83	126	11	105	16	9.1	14	191	13	7.9	197
24	178	86	146	11	90	15	354	14	139	13	7.4	196
25	178	126	142	11	289	14	366	14	274	13	7.0	196
26	180	170	145	10	244	14	127	14	389	17	6.5	193
27	180	171	145	9.9	74	14	53	106	188	16	6.0	192
28	195	174	155	14	35	14	37	36	106	23	8.1	189
29	218	181	148	50	39	14	29	18	322	e271	63	187
30	234	184	141	52	---	13	23	15	367	e166	40	186
31	235	---	143	52	---	12	---	14	---	39	39	---
TOTAL	5,287.0	3,142.2	3,856	3,139.9	2,246	1,247	1,288.7	792	36,331	3,424	444.1	4,605
MEAN	171	105	124	101	77.4	40.2	43.0	25.5	1,211	110	14.3	154
MAX	267	251	184	200	289	367	366	116	7,810	704	63	198
MIN	7.0	7.3	94	9.9	12	12	9.1	14	27	13	6.0	38
AC-FT	10,490	6,230	7,650	6,230	4,450	2,470	2,560	1,570	72,060	6,790	881	9,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	290	182	171	104	150	228	263	667	461	196	217	177
MAX	4,063	1,248	3,073	929	2,003	1,728	4,339	5,908	5,439	1,330	1,157	1,643
(WY)	(1982)	(1982)	(1992)	(1992)	(1997)	(1998)	(1990)	(1990)	(1989)	(1950)	(1950)	(1962)
MIN	2.96	4.81	2.21	0.75	0.10	0.26	0.59	25.2	2.76	7.11	0.03	0.23
(WY)	(1957)	(1984)	(1953)	(1956)	(1953)	(1955)	(1955)	(1959)	(1953)	(1979)	(1980)	(1956)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

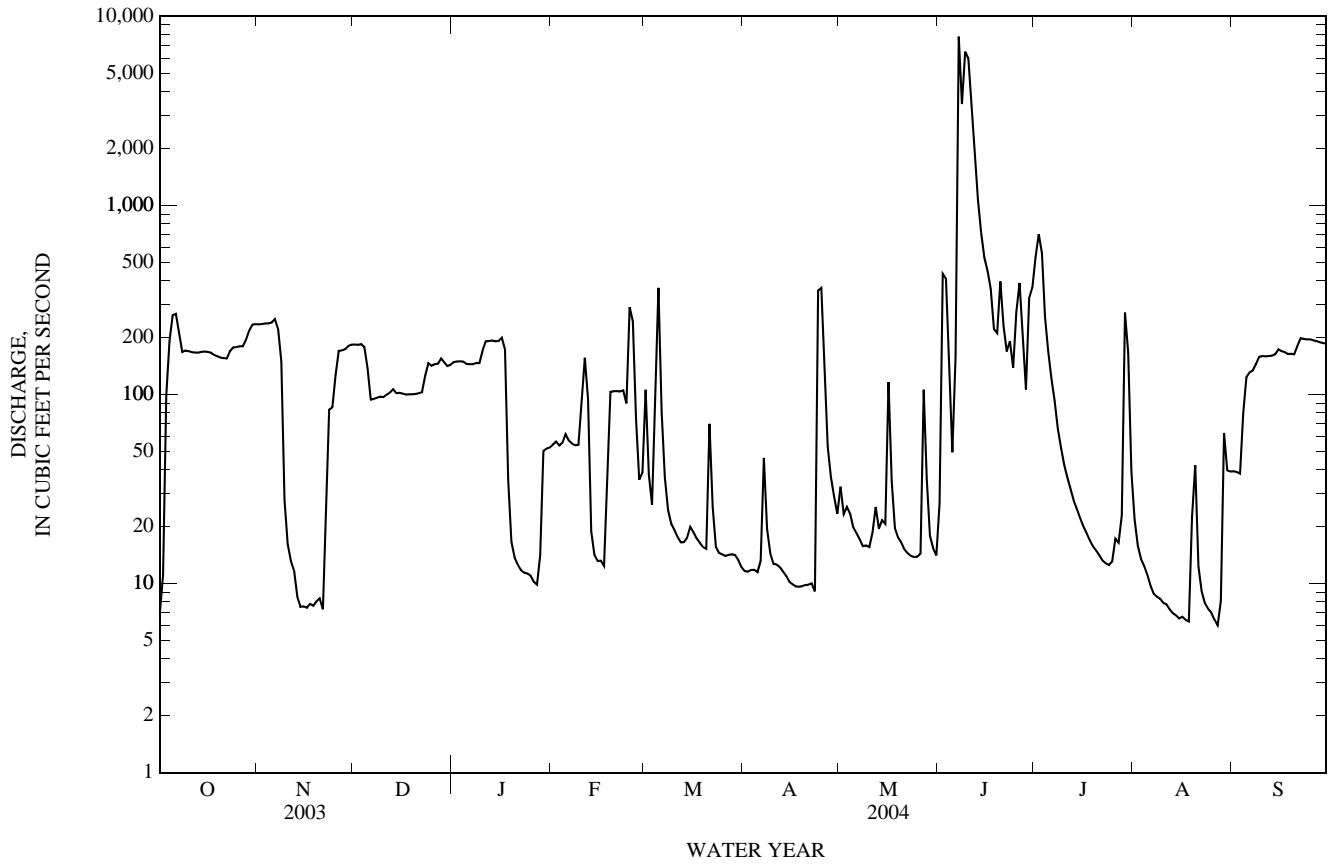
FOR 2004 WATER YEAR

WATER YEARS 1947 - 2004

ANNUAL TOTAL	46,699.9	65,802.9	259
ANNUAL MEAN	128	180	1,094
HIGHEST ANNUAL MEAN			58.6
LOWEST ANNUAL MEAN			1953
HIGHEST DAILY MEAN	876	Jun 14	38,800
LOWEST DAILY MEAN	7.0	Sep 30	0.00
ANNUAL SEVEN-DAY MINIMUM	7.7	Nov 15	0.00
MAXIMUM PEAK FLOW			60,400
MAXIMUM PEAK STAGE			25.87
ANNUAL RUNOFF (AC-FT)	92,630	130,500	188,000
10 PERCENT EXCEEDS	274	235	466
50 PERCENT EXCEEDS	100	56	66
90 PERCENT EXCEEDS	16	9.9	4.6

e Estimated

08044500 West Fork Trinity River near Boyd, TX—Continued



TRINITY RIVER BASIN

08044800 Walnut Creek at Reno, TX

LOCATION.--Lat 32°56'44", long 97°34'58", Parker County, Hydrologic Unit 12030101, on upstream left bank at abandoned bridge abutment, 100 ft upstream from bridge on FM 1542, 3,500 ft upstream from Cottonwood Branch, and 2.4 mi west of intersection of FM 1542 and FM 730 in Center Point.

DRAINAGE AREA.--75.6 mi².

PERIOD OF RECORD.--Apr. 1992 to Sept. 1995 (annual maximum), Oct. 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 681.11 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair except those above 3,000 ft³/s, which are poor. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	0.67	0.77	0.99	1.7	40	5.1	1.2	305	30	13	1.5
2	0.42	0.72	0.89	1.2	4.0	17	5.6	1.3	455	23	11	1.5
3	0.40	0.83	0.86	1.4	2.5	13	6.0	0.66	100	19	10	1.3
4	0.41	1.00	0.77	1.4	2.0	43	5.0	0.46	17	17	6.0	1.2
5	9.6	2.4	0.75	1.1	12	47	5.1	0.33	1.2	14	5.7	1.1
6	16	30	0.76	0.94	5.3	17	11	0.28	965	13	4.2	1.7
7	2.9	128	0.84	0.75	2.3	11	19	0.28	3,930	12	3.5	7.9
8	1.5	39	1.2	0.96	1.8	7.2	11	0.28	72	12	3.9	2.6
9	1.6	22	1.2	1.0	1.8	7.5	6.0	0.31	6,810	10	4.7	1.7
10	1.6	5.7	0.90	1.0	1.9	7.0	4.9	0.27	152	8.9	4.6	1.3
11	1.8	1.7	0.82	1.2	23	6.9	4.4	0.36	71	8.5	3.6	1.4
12	1.4	0.94	1.1	1.3	33	6.2	4.3	4.8	52	7.4	2.9	1.3
13	1.3	0.66	2.6	1.3	11	8.3	4.1	0.38	46	6.3	2.6	1.1
14	0.99	0.55	1.8	1.3	5.2	42	3.3	0.38	37	5.6	2.5	1.2
15	0.93	0.55	1.3	1.4	5.8	25	3.1	0.23	32	5.1	3.0	1.4
16	0.87	0.53	1.0	7.4	3.7	12	2.8	0.20	29	4.5	3.3	1.3
17	0.87	23	0.83	42	2.8	9.2	2.4	0.18	25	4.0	4.6	1.9
18	0.87	34	0.80	14	2.3	7.9	2.0	0.14	23	3.7	2.7	2.2
19	1.0	3.7	0.77	5.9	2.4	6.7	2.0	0.11	23	3.5	29	2.5
20	1.0	1.1	0.68	2.8	2.3	12	2.1	0.09	20	4.0	25	1.8
21	0.91	0.75	0.77	2.2	1.9	223	2.0	0.07	19	3.7	12	0.92
22	0.77	0.70	0.86	2.0	2.0	33	1.7	0.06	19	3.4	6.1	0.76
23	0.82	0.70	0.78	1.9	2.8	20	1.5	0.06	17	3.1	4.1	0.76
24	0.68	0.54	0.77	1.9	43	16	488	0.05	15	2.8	1.5	0.85
25	0.51	0.56	0.79	2.1	266	13	48	0.05	16	2.4	0.91	0.95
26	0.39	0.66	0.83	1.8	48	12	16	0.06	18	2.5	0.42	1.4
27	0.49	0.68	1.0	1.6	22	11	4.2	0.10	18	3.0	0.33	1.3
28	0.53	0.62	1.1	1.4	14	9.2	1.8	19	14	53	7.8	1.5
29	0.57	0.62	1.0	1.5	39	6.4	1.3	0.43	54	209	23	1.8
30	0.66	0.70	0.87	1.4	---	5.3	1.1	0.11	50	39	5.7	0.95
31	0.63	---	0.86	1.3	---	5.1	---	0.06	---	20	2.0	---
TOTAL	52.80	303.58	30.27	108.44	565.5	699.9	674.8	32.29	13,405.2	553.4	209.66	49.09
MEAN	1.70	10.1	0.98	3.50	19.5	22.6	22.5	1.04	447	17.9	6.76	1.64
MAX	16	128	2.6	42	266	223	488	19	6,810	209	29	7.9
MIN	0.38	0.53	0.68	0.75	1.7	5.1	1.1	0.05	1.2	2.4	0.33	0.76
AC-FT	105	602	60	215	1,120	1,390	1,340	64	26,590	1,100	416	97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	4.67	16.5	6.66	6.16	39.3	35.3	20.1	18.3	64.6	4.98	3.94	2.77
MAX	19.1	120	17.9	17.0	178	104	82.1	92.2	447	19.1	14.6	13.5
(WY)	(2003)	(1997)	(1998)	(1998)	(1997)	(1998)	(1997)	(1997)	(2004)	(1997)	(1997)	(2003)
MIN	0.00	0.25	0.61	0.27	0.54	4.62	5.36	1.04	0.84	0.13	0.00	0.00
(WY)	(2000)	(2000)	(2000)	(2000)	(2000)	(2003)	(2000)	(2004)	(1999)	(2000)	(2000)	(2000)

SUMMARY STATISTICS

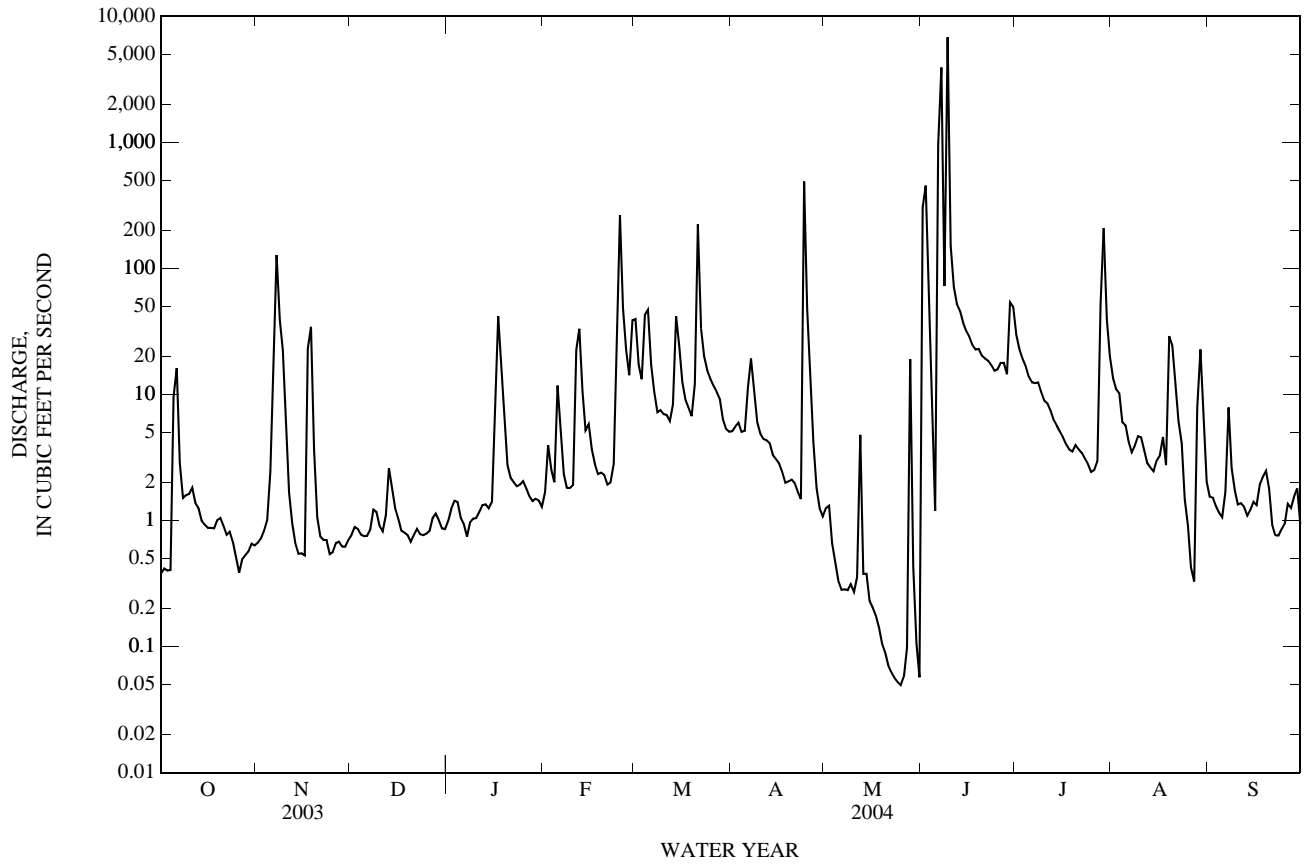
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1996 - 2004

ANNUAL TOTAL	2,753.45	16,684.93	
ANNUAL MEAN	7.54	45.6	
HIGHEST ANNUAL MEAN			18.4
LOWEST ANNUAL MEAN			53.7
HIGHEST DAILY MEAN	597	Jun 13	3.98
LOWEST DAILY MEAN	0.09	Aug 24	6,810
ANNUAL SEVEN-DAY MINIMUM	0.10	Aug 20	0.00
MAXIMUM PEAK FLOW			0.00
MAXIMUM PEAK STAGE			0.00
ANNUAL RUNOFF (AC-FT)	5,460	33,090	23.26
10 PERCENT EXCEEDS	8.3	30	20
50 PERCENT EXCEEDS	1.7	2.2	2.0
90 PERCENT EXCEEDS	0.17	0.53	0.13

08044800 Walnut Creek at Reno, TX—Continued



LOCATION.--Lat 32°52'39", long 97°28'29", Tarrant County, Hydrologic Unit 12030101, at left end of main section of Eagle Mountain Dam on West Fork Trinity River, 11.8 mi northwest of Fort Worth and at mile 583.3.

PERIOD OF RECORD.--Feb. 1934 to current year. Prior to Oct. 1950 end of month values only.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 16, 1988, nonrecording gages at several sites within 1.0 mi of present site at present datum. Satellite telemeter at station.

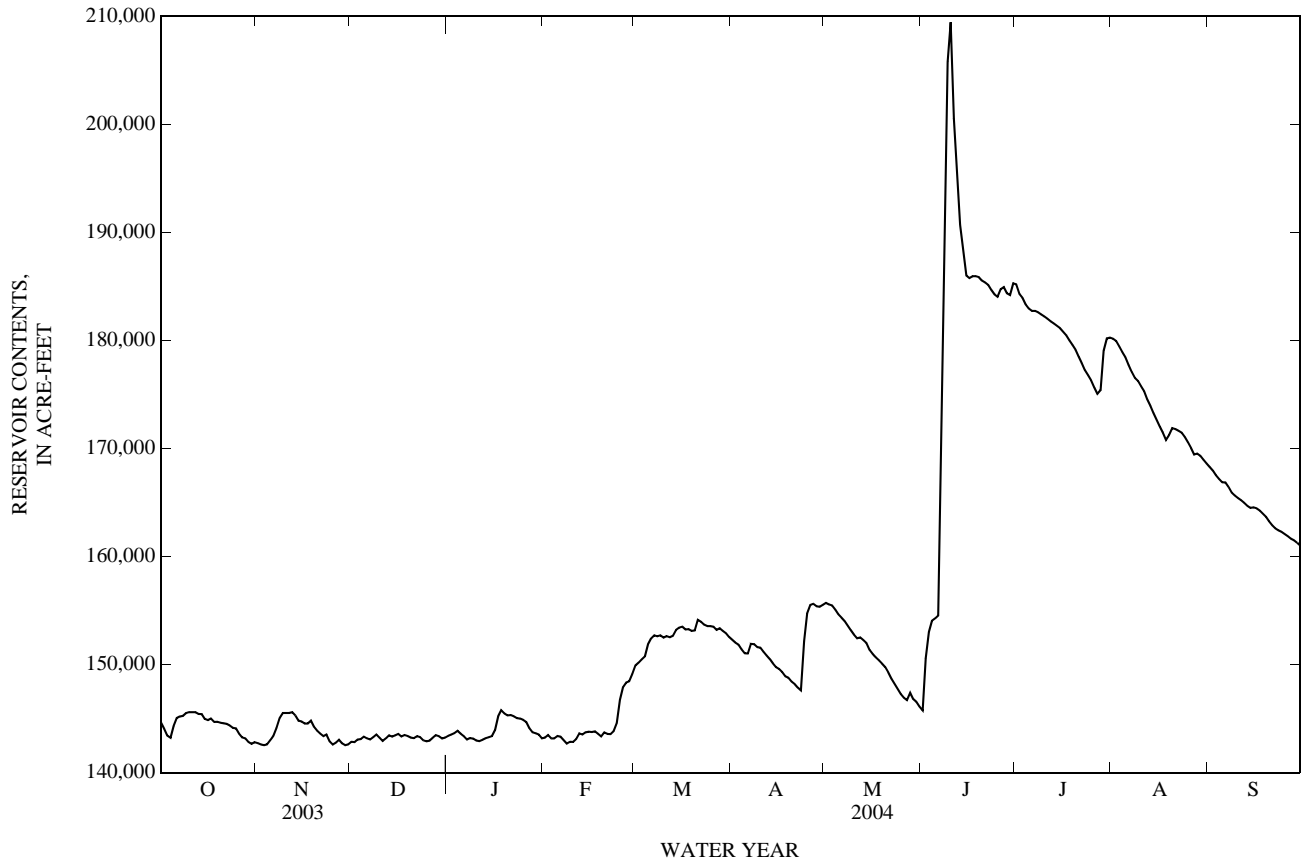
	Elevation (feet)
Top of dam	682.0
Crest of spillway	676.0
Top of gates (new side-channel spillway)	659.0
Crest of (old service) spillway	649.1
Crest of spillway (new side-channel spillway)	637.0
Lowest gated outlet (invert)	599.9

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 333,500 acre-ft, Apr. 26, 1942, elevation, 659.9 ft; minimum contents observed since first appreciable storage in 1935, 57,690 acre-ft, Nov. 19, 20, 1956, elevation, 629.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 212,700 acre-ft, June 9, elevation, 652.57 ft; minimum contents, 142,300 acre-ft, Nov. 25, elevation, 644.10 ft.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144,600	142,700	142,900	143,400	143,200	149,900	152,300	155,700	145,800	185,200	180,200	168,300
2	144,100	142,600	142,800	143,500	143,500	150,200	152,000	155,600	150,600	184,300	180,000	168,000
3	143,400	142,500	143,100	143,700	143,200	150,500	151,800	155,500	153,000	183,900	179,400	167,500
4	143,200	142,600	143,100	143,900	143,200	150,800	151,400	155,100	154,100	183,300	178,900	167,200
5	144,300	143,000	143,300	143,600	143,400	151,900	151,100	154,700	154,300	183,000	178,400	166,900
6	145,000	143,400	143,200	143,400	143,300	152,400	151,000	154,400	154,500	182,700	177,700	166,900
7	145,200	144,100	143,100	143,100	143,000	152,700	151,900	154,000	175,600	182,700	177,100	166,400
8	145,300	145,100	143,300	143,200	142,700	152,600	151,900	153,600	189,800	182,600	176,500	165,900
9	145,500	145,500	143,500	143,200	142,900	152,700	151,600	153,200	205,800	182,400	176,200	165,700
10	145,600	145,500	143,200	143,000	142,800	152,500	151,600	152,800	209,500	182,200	175,800	165,400
11	145,600	145,500	142,900	142,900	143,100	152,600	151,200	152,400	200,500	182,000	175,300	165,200
12	145,600	145,600	143,200	143,000	143,600	152,500	150,800	152,500	195,100	181,800	174,500	165,000
13	145,400	145,300	143,400	143,200	143,500	152,700	150,500	152,300	190,700	181,600	173,900	164,700
14	145,400	144,800	143,300	143,300	143,700	153,200	150,100	152,000	188,300	181,400	173,300	164,500
15	145,000	144,700	143,500	143,400	143,800	153,400	149,800	151,400	186,000	181,200	172,700	164,600
16	144,900	144,500	143,600	143,900	143,800	153,500	149,600	151,000	185,800	180,800	172,000	164,500
17	145,000	144,500	143,300	145,200	143,800	153,300	149,300	150,700	186,000	180,500	171,500	164,300
18	144,700	144,800	143,500	145,800	143,600	153,300	148,900	150,400	186,000	180,000	170,800	164,000
19	144,700	144,200	143,400	145,500	143,400	153,100	148,800	150,100	185,900	179,600	171,300	163,700
20	144,600	143,900	143,200	145,300	143,700	153,200	148,400	149,800	185,600	179,100	171,900	163,300
21	144,600	143,600	143,200	145,300	143,600	154,100	148,200	149,300	185,400	178,500	171,800	162,900
22	144,500	143,400	143,400	145,200	143,600	154,000	147,900	148,700	185,100	177,900	171,600	162,600
23	144,400	143,500	143,300	145,100	143,900	153,700	147,600	148,200	184,700	177,300	171,500	162,400
24	144,100	142,900	143,000	145,000	144,600	153,600	152,200	147,700	184,300	176,800	171,100	162,300
25	144,100	142,600	142,900	144,900	146,800	153,600	154,700	147,300	184,000	176,300	170,600	162,100
26	143,600	142,800	143,000	144,700	147,900	153,500	155,500	146,900	184,700	175,600	170,100	161

08045000 Eagle Mountain Reservoir above Fort Worth, TX—Continued



08045400 Lake Worth above Fort Worth, TX

LOCATION.--Lat 32°47'21", long 97°24'58", Tarrant County, Hydrologic Unit 12030102, on top of Lake Worth Dam on West Fork Trinity River, 240 ft to right of right end of uncontrolled concrete spillway, 2.9 mi upstream from Farmer's Branch, 3.3 mi upstream from bridge on State Highway 183 crossing West Fork Trinity River, 5.3 mi northwest of Tarrant County Courthouse in Fort Worth, at mile 572.0.

DRAINAGE AREA.--2,064 mi².

PERIOD OF RECORD.--Oct. 1981 to current year. Water-quality records: Chemical data: Jan. 1970 to Sept. 1984.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 3,200 ft long, with an uncontrolled concrete spillway 700 ft long near the center of the dam. Deliberate impoundment began in June 1914 and the dam was completed in Oct. 1914. There is a 48-inch diameter pipe controlled by a 36-inch valve, which may be used to make small releases through the dam. The dam is owned by the city of Fort Worth. Conservation pool storage is 38,130 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	606.3
Crest of concrete spillway	594.0
Lowest gated outlet (invert)	584.25

COOPERATION.--Capacity Table 1-C was provided by U.S. Army Corps of Engineers, and put into effect Feb. 1968. Capacity Table 2 was provided by the Texas Water Development Board and put into effect Oct. 2003.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,040 acre-ft, May 3, 1990, elevation, 598.70 ft; minimum contents, 24,730 acre-ft, Sept. 9-10, 1985, elevation, 589.95 ft.

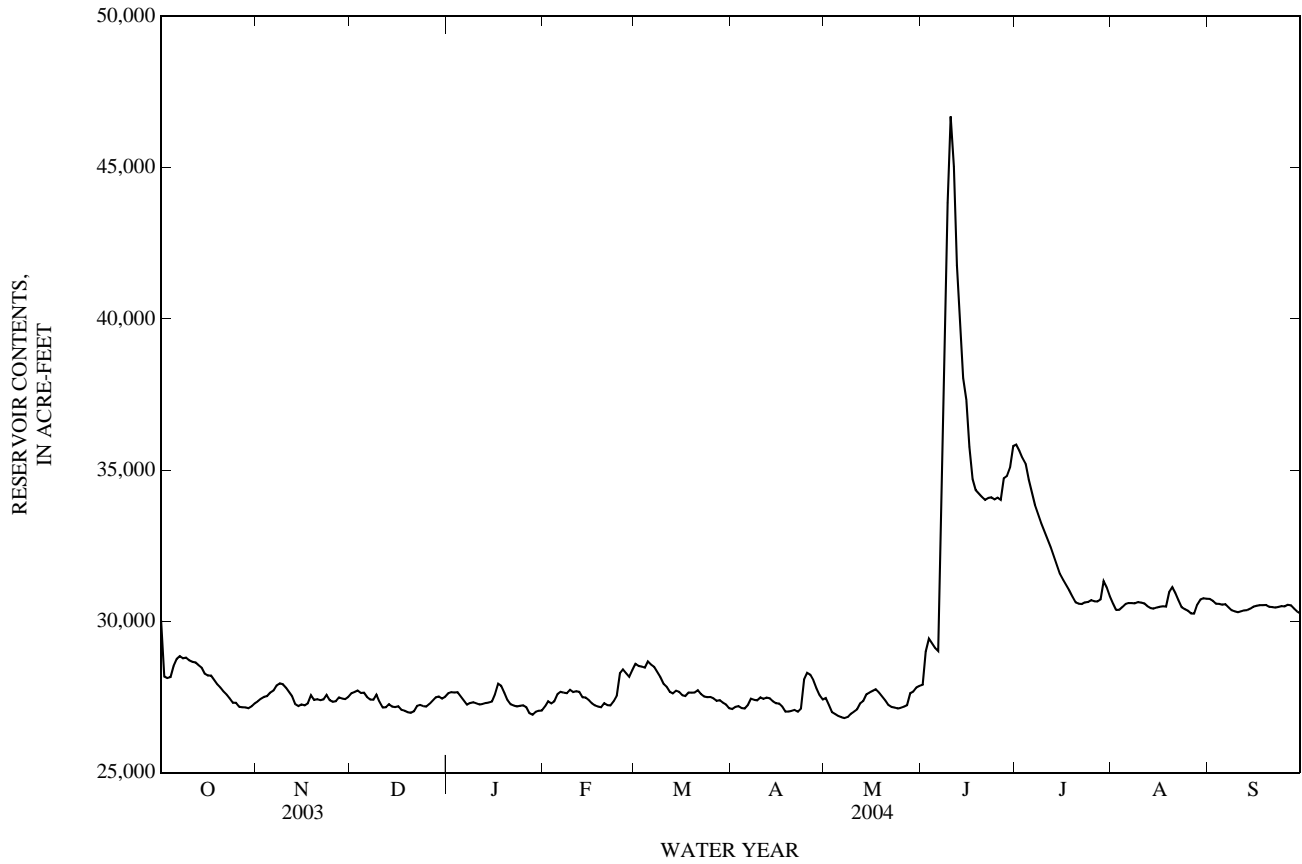
EXTREMES FOR CURRENT YEAR.--Maximum contents, 47,210 acre-ft, June 9, elevation, 597.78 ft; minimum contents, 26,690 acre-ft, May 8, elevation, 591.94 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e30,040	27,360	27,620	27,620	27,190	28,600	27,110	27,460	27,900	35,840	30,590	30,740
2	28,180	27,440	27,670	27,660	27,360	28,530	27,170	27,230	29,000	35,640	30,380	30,680
3	28,130	27,510	27,720	27,650	27,290	28,510	27,200	27,000	29,430	35,400	30,380	30,580
4	28,150	27,530	27,630	27,660	27,360	28,470	27,140	26,940	29,280	35,200	30,470	30,580
5	28,520	27,650	27,640	27,520	27,600	28,680	27,120	26,870	29,120	34,690	30,570	30,550
6	28,760	27,720	27,490	27,390	27,670	28,570	27,230	26,830	29,020	34,260	30,610	30,570
7	28,850	27,880	27,420	27,250	27,650	28,500	27,440	26,800	e32,880	33,850	30,600	30,460
8	28,780	27,950	27,410	27,300	27,630	28,320	27,400	26,840	36,170	33,550	30,590	30,370
9	28,800	27,920	27,580	27,330	27,740	28,160	27,390	26,940	43,840	33,250	30,640	30,330
10	28,710	27,810	27,330	27,290	27,660	27,930	27,490	27,010	46,690	32,980	30,620	30,300
11	28,670	27,670	27,150	27,260	27,690	27,840	27,440	27,090	45,040	32,730	30,590	30,330
12	28,640	27,520	27,160	27,270	27,670	27,670	27,480	27,290	41,780	32,460	30,500	30,360
13	28,550	27,260	27,270	27,300	27,490	27,620	27,460	27,370	40,110	32,170	30,440	30,380
14	28,470	27,200	27,180	27,310	27,480	27,710	27,360	27,590	38,040	31,860	30,420	30,420
15	28,270	27,250	27,170	27,350	27,400	27,670	27,290	27,650	37,320	31,570	30,460	30,490
16	28,210	27,230	27,190	27,590	27,300	27,560	27,280	27,700	35,770	31,380	30,480	30,510
17	28,210	27,290	27,080	27,940	27,220	27,530	27,190	27,750	34,710	31,200	30,500	30,540
18	28,060	27,560	27,050	27,870	27,180	27,650	27,020	27,650	34,340	31,020	30,490	30,540
19	27,930	27,410	27,000	27,640	27,160	27,650	27,020	27,520	34,230	30,820	30,980	30,540
20	27,810	27,430	26,980	27,400	27,300	27,650	27,040	27,390	34,120	30,630	31,140	30,480
21	27,690	27,400	27,030	27,260	27,230	27,720	27,070	27,240	34,020	30,580	30,930	30,470
22	27,580	27,420	27,210	27,210	27,220	27,600	27,020	27,170	34,080	30,570	30,700	30,460
23	27,460	27,570	27,240	27,190	27,360	27,520	27,120	27,150	34,100	30,630	30,470	30,480
24	27,310	27,400	27,200	27,210	27,540	27,500	28,080	27,120	34,030	30,640	30,400	30,500
25	27,310	27,340	27,180	27,230	28,280	27,500	28,300	27,140	34,090	30,700	30,350	30,500
26	27,180	27,360	27,270	27,160	28,410	27,450	28,230	27,180	34,020	30,670	30,260	30,550
27	27,160	27,490	27,380	26,970	28,290	27,370	28,060	27,230	34,730	30,660	30,260	30,530
28	27,160	27,450	27,490	26,920	28,170	27,400	27,780	27,620	34,800	30,730	30,550	30,430
29	27,130	27,430	27,520	27,010	28,400	27,320	27,560	27,680	35,080	31,330	30,720	30,330
30	27,190	27,510	27,450	27,050	---	27,250	27,420	27,810	35,790	31,120	30,770	30,260
31	27,290	---	27,500	27,050	---	27,130	---	27,860	---	30,830	30,750	---
TOTAL	870,200	824,960	847,210	847,860	799,940	862,580	821,910	846,120	1,053,530	998,960	947,610	914,260
MEAN	28,070	27,500	27,330	27,350	27,580	27,830	27,400	27,290	35,120	32,220	30,570	30,480
MAX	30,040	27,950	27,720	27,940	28,410	28,680	28,300	27,860	46,690	35,840	31,140	30,740
MIN	27,130	27,200	26,980	26,920	27,160	27,130	27,020	26,800	27,900	30,570	30,260	30,260
CAL YR	2003	TOTAL	11,417,490	MEAN	31,280	MAX	34,850	MIN	26,980			
WTR YR	2004	TOTAL	10,635,140	MEAN	29,060	MAX	46,690	MIN	26,800			

e Estimated

08045400 Lake Worth above Fort Worth, TX—Continued



TRINITY RIVER BASIN

08045525 Farmers Branch at Westworth Village, Fort Worth, TX

LOCATION.--Lat 32°45'52", long 97°25'56", Tarrant County, Hydrologic Unit 12030102, on left bank 0.6 mi northwest of Hwy 183 on Roaring Springs Road, along north side of Cottonwood tree grove, 1.62 mi upstream of confluence with West Fork Trinity River.

DRAINAGE AREA.--6.09 mi².

PERIOD OF RECORD.--July 1998 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for Feb. 27 to Sept. 2, which are fair. No known regulation or diversions.

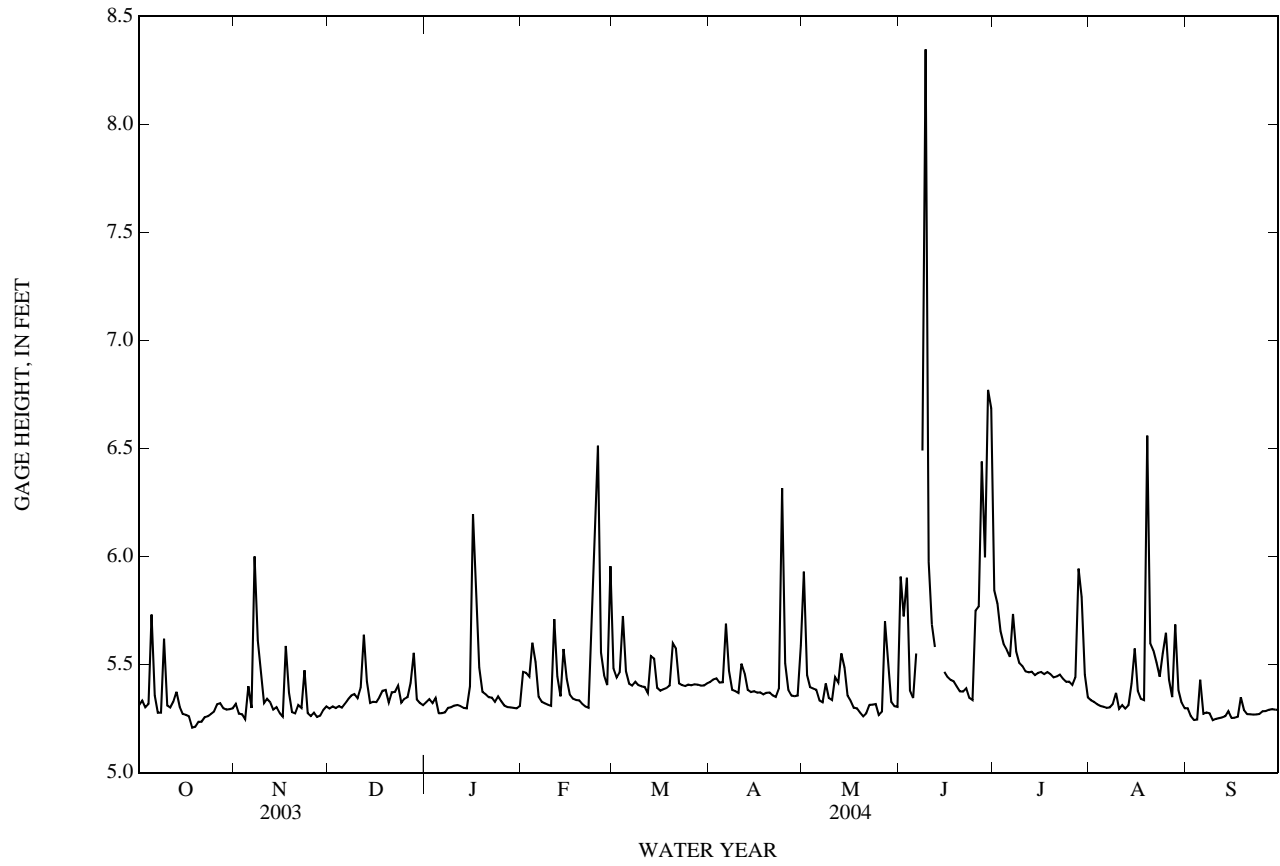
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.74, June 7, 2004; minimum gage height, 4.36, June 20, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.74 ft, June 7; minimum gage height, 5.17 ft, Sept. 2.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.31	5.32	5.30	5.33	5.47	5.48	5.42	5.93	5.91	5.84	5.33	5.30
2	5.33	5.27	5.31	5.34	5.46	5.44	5.43	5.45	5.72	5.78	5.33	5.26
3	5.30	5.27	5.30	5.32	5.44	5.46	5.44	5.40	5.90	5.66	5.32	5.24
4	5.32	5.25	5.31	5.35	5.60	5.72	5.42	5.39	5.38	5.59	5.31	5.25
5	5.73	5.40	5.30	5.27	5.51	5.47	5.42	5.38	5.35	5.57	5.31	5.43
6	5.36	5.30	5.32	5.28	5.35	5.41	5.69	5.33	5.55	5.54	5.30	5.27
7	5.28	6.00	5.34	5.28	5.33	5.40	5.47	5.33	---	5.73	5.30	5.28
8	5.28	5.61	5.36	5.30	5.32	5.42	5.38	5.41	6.49	5.56	5.32	5.27
9	5.62	5.46	5.36	5.30	5.31	5.40	5.38	5.35	8.35	5.51	5.37	5.24
10	5.31	5.32	5.34	5.31	5.31	5.40	5.37	5.34	5.97	5.49	5.29	5.25
11	5.30	5.34	5.39	5.31	5.71	5.40	5.50	5.44	5.69	5.47	5.31	5.25
12	5.33	5.33	5.64	5.31	5.45	5.37	5.46	5.42	5.58	5.46	5.30	5.26
13	5.37	5.29	5.42	5.30	5.35	5.54	5.38	5.55	---	5.47	5.31	5.26
14	5.30	5.30	5.32	5.30	5.57	5.53	5.37	5.49	---	5.45	5.41	5.29
15	5.27	5.28	5.33	5.40	5.43	5.39	5.38	5.36	5.47	5.46	5.57	5.25
16	5.27	5.26	5.33	6.20	5.36	5.38	5.37	5.33	5.44	5.47	5.38	5.25
17	5.26	5.59	5.35	5.78	5.34	5.39	5.37	5.30	5.43	5.46	5.34	5.26
18	5.21	5.37	5.38	5.49	5.34	5.39	5.36	5.30	5.42	5.47	5.34	5.35
19	5.21	5.28	5.38	5.37	5.33	5.40	5.37	5.28	5.40	5.46	6.56	5.29
20	5.24	5.27	5.32	5.36	5.32	5.60	5.37	5.26	5.38	5.44	5.60	5.27
21	5.24	5.31	5.37	5.35	5.31	5.58	5.36	5.27	5.38	5.44	5.56	5.27
22	5.26	5.30	5.37	5.35	5.30	5.41	5.35	5.31	5.39	5.45	5.51	5.27
23	5.26	5.47	5.40	5.33	5.72	5.41	5.39	5.31	5.35	5.44	5.44	5.27
24	5.27	5.28	5.32	5.35	6.02	5.40	6.32	5.32	5.34	5.42	5.55	5.27
25	5.28	5.26	5.34	5.33	6.51	5.41	5.51	5.27	5.75	5.42	5.65	5.28
26	5.32	5.28	5.35	5.31	5.55	5.40	5.38	5.28	5.77	5.41	5.43	5.29
27	5.32	5.26	5.42	5.30	5.45	5.41	5.36	5.70	6.44	5.44	5.35	5.29
28	5.30	5.26	5.55	5.30	5.40	5.41	5.35	5.50	6.00	5.94	5.69	5.29
29	5.29	5.29	5.34	5.30	5.96	5.40	5.36	5.33	6.77	5.81	5.38	5.29
30	5.29	5.31	5.32	5.30	---	5.40	5.59	5.31	6.69	5.45	5.33	5.29
31	5.30	---	5.31	5.31	---	5.41	---	5.30	---	5.35	5.30	---
MEAN	5.31	5.35	5.36	5.37	5.50	5.44	5.44	5.39	---	5.53	5.44	5.28
MAX	5.73	6.00	5.64	6.20	6.51	5.72	6.32	5.93	---	5.94	6.56	5.43
MIN	5.21	5.25	5.30	5.27	5.30	5.37	5.35	5.26	---	5.35	5.29	5.24

08045525 Farmers Branch at Westworth Village, Fort Worth, TX—Continued



08045800 Lake Weatherford near Weatherford, TX

LOCATION.--Lat 32°46'21", long 97°40'28", Parker County, Hydrologic Unit 12030102, in pumphouse 168 ft upstream from right end of dam on Clear Fork Trinity River, 2.4 mi downstream from Hays Branch, 3.9 mi upstream from Squaw Creek, and 7.3 mi east of Weatherford.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--June 1976 to May 1980, Aug. 1998 to Sept. 2002 (contents), Oct. 2002 to current year. Water-quality records: Chemical data: Oct. 1978 to Sept. 1979.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfilled dam 4,055 ft long. The dam was completed and deliberate impoundment began in Mar. 1957. The service spillway is a semi-circular drip inlet with a crest length of 162 ft located 550 ft to the right of the pumphouse. The drop inlet discharges into a 9 x 9 ft concrete conduit that extends 425 ft under the dam. The emergency spillway is an uncontrolled excavated split-level cut channel located at the right end of the dam. The low-flow outlet works consist of an 18 in diameter concrete pipe with a valve control assembly. At end of year, flow from 43.9 mi² above this station was partly affected at times by discharge from the flood-detention pools of 22 floodwater retarding structures with a combined detention capacity of 11,000 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	914.0
Crest of Spillway	903.0
Invert of drop inlet (spillway)	896.0
Invert of lowest gated outlet pipe	857.0

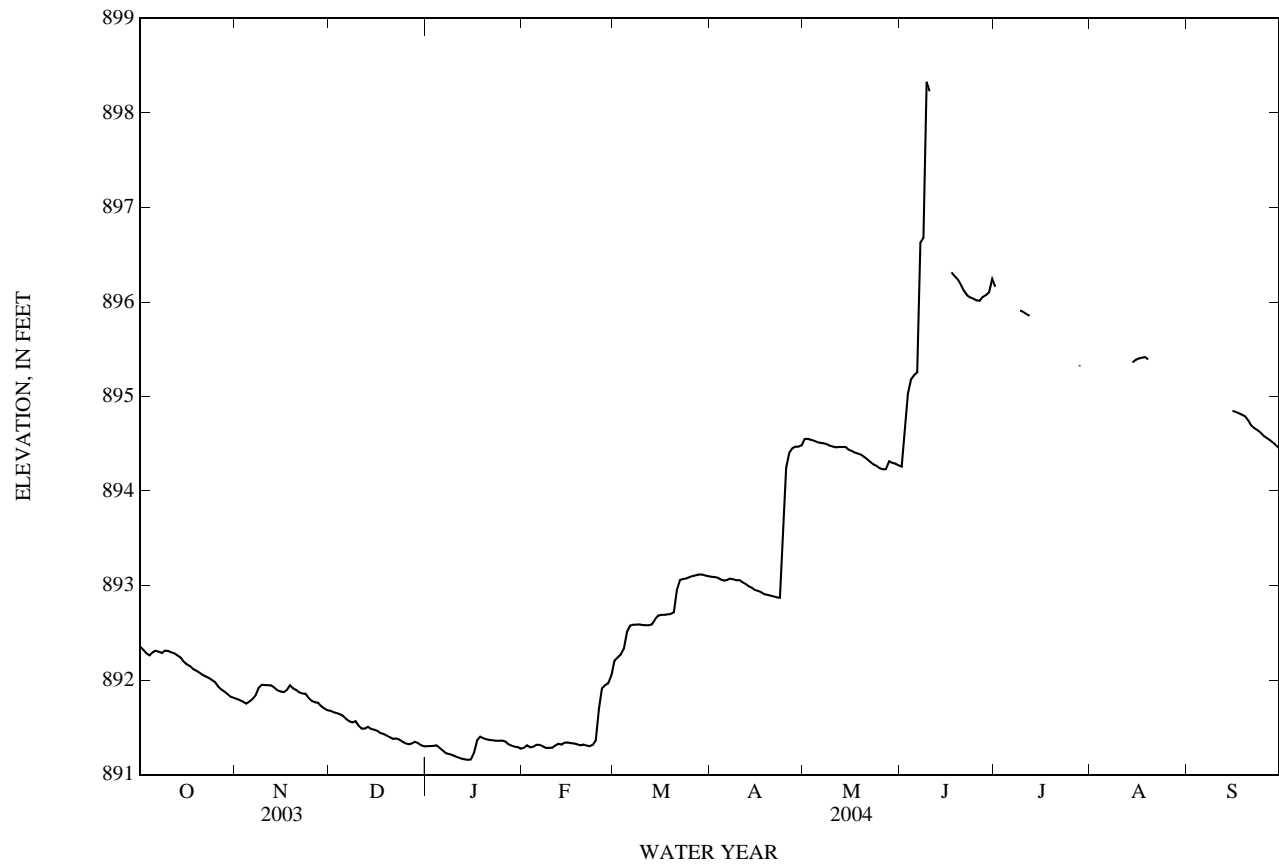
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 23,560 acre-ft, Mar. 27, 1977, elevation, 899.65 ft, from floodmark; minimum contents, 12,880 acre-ft, Jan. 9, 10, 1979, elevation, 889.99 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 899.32 ft, June 9; minimum elevation, 891.15 ft, Jan. 12, 14.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	892.35	891.80	891.68	891.30	891.28	892.21	893.09	894.55	894.26	896.16	---	---
2	892.32	891.79	891.66	891.30	891.31	892.24	893.09	894.55	894.67	---	---	---
3	892.28	891.77	891.65	891.30	891.29	892.27	893.08	894.54	895.03	---	---	---
4	892.26	891.75	891.64	891.31	891.30	892.33	893.06	894.53	895.18	---	---	---
5	892.29	891.77	891.62	891.28	891.32	892.51	893.05	894.52	895.23	---	---	---
6	892.31	891.80	891.59	891.26	891.32	892.58	893.06	894.51	895.26	---	---	---
7	892.30	891.84	891.56	891.23	891.30	892.59	893.07	894.50	896.63	---	---	---
8	892.29	891.92	891.55	891.22	891.28	892.59	893.07	894.49	896.68	---	---	---
9	892.31	891.95	891.56	891.21	891.28	892.59	893.06	894.48	898.33	895.91	---	---
10	892.31	891.95	891.52	891.19	891.28	892.58	893.06	894.47	898.23	895.89	---	---
11	892.29	891.95	891.49	891.18	891.31	892.58	893.04	894.46	---	895.87	---	---
12	892.28	891.94	891.49	891.17	891.33	892.58	893.02	894.47	---	895.85	---	---
13	892.26	891.92	891.51	891.16	891.32	892.59	892.99	894.47	---	---	---	---
14	892.24	891.89	891.48	891.16	891.34	892.64	892.98	894.47	---	---	895.36	---
15	892.20	891.88	891.48	891.16	891.34	892.68	892.95	894.44	---	---	895.39	894.85
16	892.16	891.87	891.46	891.23	891.33	892.69	892.94	894.42	---	---	895.40	894.84
17	892.15	891.90	891.44	891.36	891.33	892.69	892.93	894.41	896.31	---	895.41	894.82
18	892.12	891.95	891.43	891.40	891.32	892.70	892.91	894.40	896.27	---	895.42	894.81
19	892.10	891.91	891.41	891.38	891.31	892.70	892.90	894.38	896.24	---	895.39	894.79
20	892.08	891.90	891.40	891.37	891.32	892.72	892.89	894.36	896.18	---	---	894.75
21	892.06	891.87	891.38	891.37	891.31	892.95	892.89	894.34	896.12	---	---	894.69
22	892.04	891.86	891.38	891.36	891.30	893.06	892.87	894.31	896.07	---	---	894.67
23	892.02	891.86	891.37	891.36	891.32	893.07	892.87	894.28	896.05	---	---	894.64
24	892.00	891.81	891.35	891.36	891.36	893.07	893.59	894.27	896.03	---	---	894.62
25	891.98	891.78	891.33	891.36	891.70	893.09	894.25	894.24	896.02	---	---	894.58
26	891.93	891.76	891.32	891.35	891.91	893.10	894.41	894.23	896.01	---	---	894.56
27	891.90	891.76	891.33	891.32	891.95	893.11	894.45	894.23	896.05	---	---	894.54
28	891.88	891.72	891.35	891.31	891.96	893.12	894.47	894.31	896.07	895.33	---	894.51
29	891.85	891.70	891.33	891.30	892.05	893.12	894.47	894.30	896.10	---	---	894.48
30	891.82	891.68	891.31	891.29	---	893.11	894.48	894.29	896.25	---	---	894.45
31	891.81	---	891.30	891.27	---	893.10	---	894.27	---	---	---	---
MEAN	892.14	891.84	891.46	891.28	891.42	892.74	893.30	894.40	---	---	---	---
MAX	892.35	891.95	891.68	891.40	892.05	893.12	894.48	894.55	---	---	---	---
MIN	891.81	891.68	891.30	891.16	891.28	892.21	892.87	894.23	---	---	---	---
CAL YR	2003	MEAN 893.02	MAX 894.50	MIN 891.30								

08045800 Lake Weatherford near Weatherford, TX—Continued



TRINITY RIVER BASIN

08045850 Clear Fork Trinity River near Weatherford, TX

LOCATION.--Lat 32°44'25", long 97°39'06", Parker County, Hydrologic Unit 12030102, near left end of bridge on weigh station exit road associated with Interstate Highway 20, 150 ft downstream from Squaw Creek, 2.8 mi downstream from Lake Weatherford Dam on the Clear Fork Trinity River, 3.8 mi upstream from South Fork Trinity River and 8.5 mi east of county courthouse in Weatherford.

DRAINAGE AREA.--121 mi².

PERIOD OF RECORD.--May 1980 to Sept. 1985 (daily mean discharge), Oct. 1985 to Sept. 1998 (peaks above base discharge), Oct. 1998 to current year. Water-quality records: Chemical data: Oct. 1980 to Sept. 1982. Biochemical data: Oct. 1980 to Sept. 1982.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 810.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in 1980 at least 10% the contributing drainage area has been regulated. No known diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	0.87	0.64	0.92	1.9	22	2.3	11	5.3	183	2.9	1.5
2	1.2	0.90	0.66	0.96	2.0	12	2.3	5.1	9.5	e121	2.9	2.0
3	1.2	0.90	0.72	0.99	1.5	9.8	2.3	4.0	14	e67	3.6	1.1
4	1.2	0.90	0.71	0.97	2.4	17	2.2	3.1	7.3	e48	3.5	1.2
5	1.9	2.2	0.62	1.1	2.4	20	2.2	2.8	5.8	e37	3.1	1.2
6	2.4	1.5	0.66	1.0	1.8	13	2.6	2.5	37	e28	1.9	1.3
7	1.3	15	0.73	1.0	1.7	8.9	2.5	2.7	1,160	e25	1.9	1.1
8	1.2	3.1	0.72	1.1	1.7	6.8	2.3	2.5	876	e18	3.0	1.0
9	2.2	2.6	0.75	1.1	1.9	6.5	2.2	2.4	2,860	e14	4.7	1.1
10	1.2	1.5	0.74	1.1	1.8	6.1	2.0	2.3	2,640	e9.0	4.0	1.1
11	1.2	1.2	0.75	1.1	2.9	5.2	2.1	5.3	908	e5.8	4.7	1.2
12	1.1	1.1	0.88	1.2	2.4	5.0	2.2	3.4	690	e5.8	3.6	1.8
13	1.2	0.99	0.93	1.5	2.3	6.0	2.0	3.4	589	e4.2	3.4	1.3
14	1.1	0.87	0.80	1.4	2.6	11	1.6	4.0	419	e4.2	3.2	1.6
15	1.2	0.76	0.81	1.2	2.3	12	1.6	3.0	338	e4.2	3.4	1.2
16	1.1	0.77	1.0	9.3	2.2	9.7	1.8	2.9	288	3.1	3.3	0.83
17	0.80	2.8	1.1	10	1.9	7.7	1.8	2.9	247	2.9	3.8	0.79
18	0.58	1.5	1.1	2.2	2.0	7.3	1.9	2.6	214	3.1	3.0	0.86
19	0.56	0.99	1.1	1.8	2.3	5.4	2.0	2.8	185	2.8	11	0.64
20	0.57	0.95	1.1	1.6	2.2	28	1.9	3.1	147	2.3	4.3	0.84
21	0.60	0.93	1.1	1.6	2.3	26	1.8	2.7	e104	2.4	3.4	0.55
22	0.61	0.94	1.0	1.4	2.3	11	1.5	2.8	e88	2.8	3.3	0.65
23	0.57	1.0	0.88	1.3	3.9	9.1	1.5	2.7	e83	2.7	2.8	0.57
24	0.90	0.79	0.86	1.3	13	7.7	40	2.7	e77	2.7	2.8	0.59
25	0.83	0.72	0.91	1.2	60	5.6	12	2.9	e71	3.6	2.6	0.57
26	0.78	0.80	0.93	1.2	18	4.4	6.2	3.0	e71	3.3	3.0	0.58
27	0.88	0.71	0.93	1.2	11	3.9	4.3	12	e72	3.9	3.0	0.58
28	0.88	0.65	0.99	1.2	8.2	3.6	3.3	6.0	e115	11	13	0.58
29	0.82	0.70	1.1	1.2	32	3.3	2.9	3.2	e194	8.7	1.8	0.74
30	0.82	0.70	1.1	1.2	---	2.7	4.1	2.8	283	4.7	1.5	0.58
31	0.89	---	0.96	1.3	---	2.4	---	3.0	---	3.1	1.2	---
TOTAL	32.99	49.34	27.28	55.64	192.9	299.1	119.4	115.6	12,797.9	637.3	113.6	29.65
MEAN	1.06	1.64	0.88	1.79	6.65	9.65	3.98	3.73	427	20.6	3.66	0.99
MAX	2.4	15	1.1	10	60	28	40	12	2,860	183	13	2.0
MIN	0.56	0.65	0.62	0.92	1.5	2.4	1.5	2.3	5.3	2.3	1.2	0.55
AC-FT	65	98	54	110	383	593	237	229	25,380	1,260	225	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004h, BY WATER YEAR (WY)

MEAN	27.4	31.0	25.4	12.5	36.0	37.5	36.5	56.3	61.0	8.81	3.62	2.67
MAX	294	341	384	110	215	144	399	418	509	75.7	12.8	9.57
(WY)	(1982)	(1982)	(1992)	(1992)	(1997)	(2001)	(1990)	(1989)	(1989)	(1982)	(1997)	(1994)
MIN	0.59	0.51	0.00	0.88	0.94	1.00	1.06	0.71	0.46	0.03	0.00	0.02
(WY)	(2000)	(1985)	(1991)	(2003)	(2000)	(2000)	(2000)	(1984)	(1998)	(1998)	(1998)	(2001)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

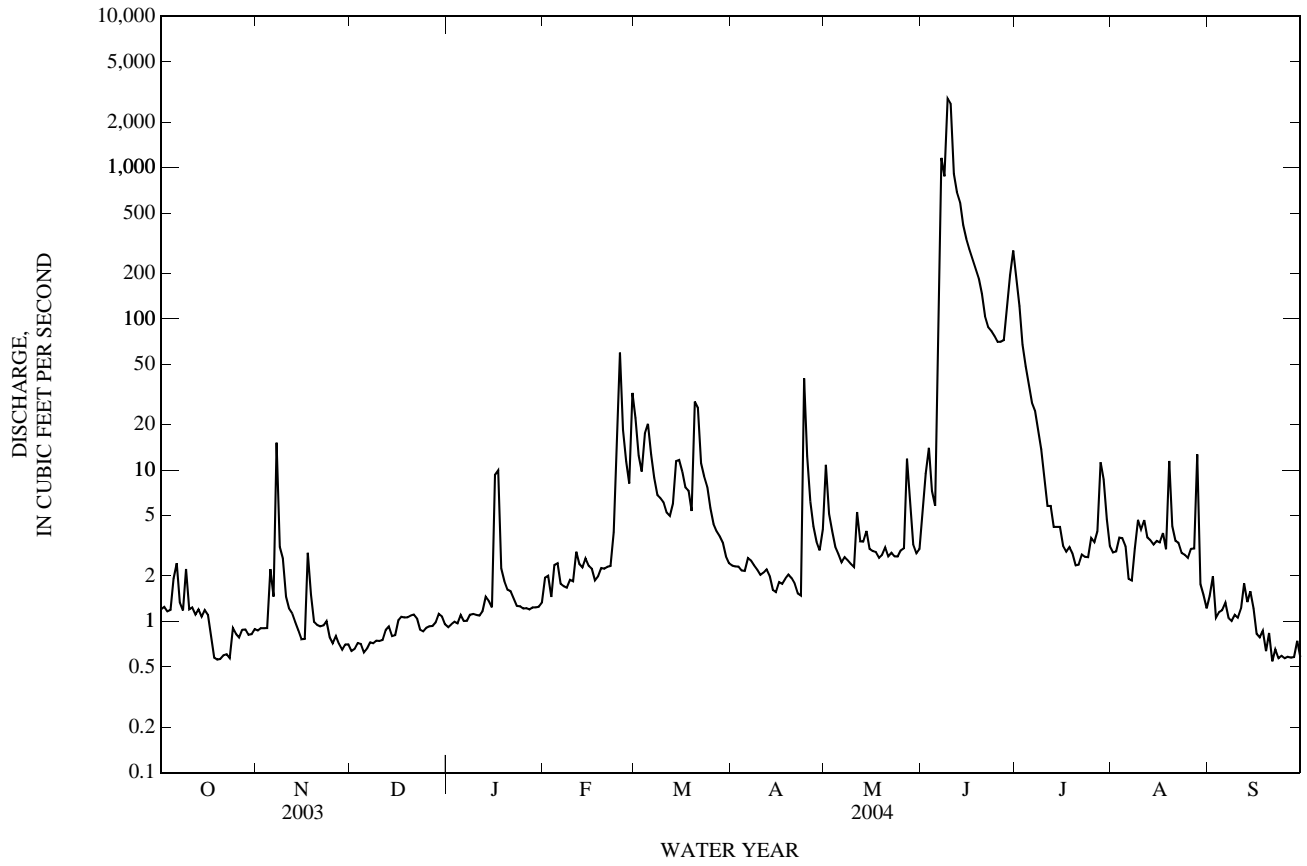
WATER YEARS 1980 - 2004h

ANNUAL TOTAL	1,096.14	14,470.70	28.5
ANNUAL MEAN	3.00	39.5	106
HIGHEST ANNUAL MEAN			0.91
LOWEST ANNUAL MEAN			1984
HIGHEST DAILY MEAN	160	Feb 26	2,860
LOWEST DAILY MEAN	0.00	Jul 29	0.55
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 29	0.58
MAXIMUM PEAK FLOW			3,980
MAXIMUM PEAK STAGE			22.20
ANNUAL RUNOFF (AC-FT)	2,170	28,700	20,610
10 PERCENT EXCEEDS	4.4	25	44
50 PERCENT EXCEEDS	1.1	2.3	1.7
90 PERCENT EXCEEDS	0.59	0.79	0.50

h See Period of Record paragraph.

e Estimated

08045850 Clear Fork Trinity River near Weatherford, TX—Continued



08046500 Benbrook Lake near Benbrook, TX

LOCATION.--Lat 32°39'02", long 97°26'54", Tarrant County, Hydrologic Unit 12030102, in intake structure of Benbrook Dam on Clear Fork Trinity River, 2.5 mi south of Benbrook, 3.5 mi upstream from Marys Creek and 14.6 mi upstream from mouth.

DRAINAGE AREA.--429 mi².

PERIOD OF RECORD.--Sept. 1952 to Sept. 2000, (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Benbrook Reservoir".

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 9,130 ft long, including a 500-foot uncontrolled off-channel concrete-gravity spillway with a 100-foot notch in center of ogee weir section. The outlet works consist of a 13.0-foot diameter concrete conduit controlled by two 6.5 by 13.0-foot broome-type gates and two 30-inch steel pipes controlled by slide gates. Deliberate impoundment began Sept. 29, 1952. From Aug. 1950 to Sept. 28, 1952, the lake was operated as a detention basin only. The lake was built for flood control, navigation and low-flow regulation. Inflow is affected at times by the discharge from flood-detention pools of 12 floodwater-retarding structures with a combined detention capacity of 11,170 acre-ft. These structures control runoff from 37.6 mi². Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	747.0
Crest of spillway	724.0
Crest of notch in spillway	710.0
Top of conservation storage	693.3
Crest of intake to wet wells (inverts)	656.0
Lowest gated outlet (invert)	622.0

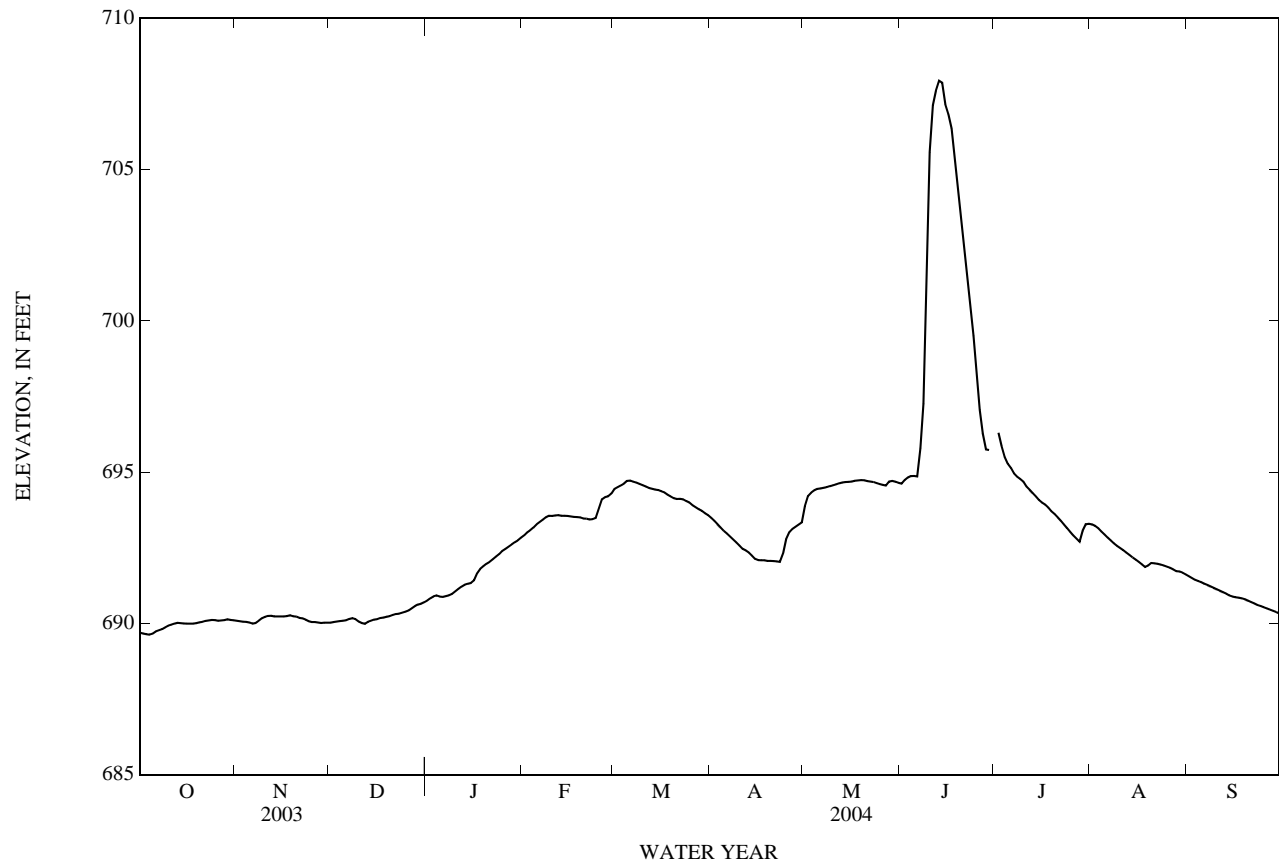
EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 212,200 acre-ft, May 3, 1990, elevation, 717.54 ft; minimum since lake first filled in 1957, 57,990 acre-ft, Sept. 30, 1999, elevation, 685.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 708.21 ft, June 14; minimum elevation, 689.63 ft, Oct. 3, 4, 5.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	689.69	690.09	690.02	690.76	692.91	694.44	693.49	693.87	694.62	---	693.27	691.56
2	689.66	690.07	690.05	690.83	693.01	694.50	693.39	694.21	694.74	696.30	693.23	691.50
3	689.65	690.05	690.06	690.89	693.08	694.56	693.28	694.32	694.82	695.87	693.14	691.44
4	689.63	690.05	690.08	690.92	693.17	694.62	693.17	694.40	694.87	695.51	693.04	691.40
5	689.66	690.03	690.09	690.89	693.27	694.71	693.06	694.44	694.87	695.28	692.94	691.36
6	689.73	689.99	690.11	690.88	693.35	694.72	692.97	694.46	694.86	695.14	692.84	691.31
7	689.77	690.02	690.15	690.90	693.42	694.68	692.88	694.49	695.79	694.96	692.74	691.26
8	689.81	690.09	690.17	690.93	693.51	694.65	692.77	694.50	697.26	694.85	692.65	691.22
9	689.87	690.17	690.14	690.97	693.56	694.61	692.68	694.53	700.32	694.77	692.56	691.17
10	689.92	690.22	690.06	691.05	693.55	694.57	692.57	694.56	705.58	694.68	692.49	691.12
11	689.95	690.24	690.01	691.14	693.57	694.52	692.47	694.59	707.13	694.52	692.42	691.08
12	689.99	690.25	689.99	691.22	693.58	694.48	692.42	694.63	707.60	694.42	692.34	691.03
13	690.02	690.23	690.05	691.28	693.56	694.45	692.34	694.66	707.94	694.31	692.26	690.98
14	690.01	690.23	690.09	691.31	693.56	694.42	692.24	694.67	707.87	694.20	692.18	690.92
15	690.00	690.23	690.13	691.33	693.55	694.41	692.13	694.68	707.16	694.08	692.11	690.89
16	689.99	690.23	690.14	691.42	693.54	694.37	692.09	694.69	706.83	693.99	692.03	690.87
17	689.99	690.24	690.18	691.66	693.52	694.33	692.09	694.71	706.36	693.93	691.95	690.85
18	689.99	690.27	690.19	691.80	693.51	694.26	692.09	694.73	705.53	693.83	691.87	690.83
19	690.01	690.24	690.22	691.89	693.50	694.20	692.07	694.74	704.64	693.71	691.91	690.80
20	690.04	690.22	690.24	691.97	693.47	694.14	692.07	694.73	703.67	693.62	692.00	690.75
21	690.05	690.19	690.28	692.03	693.46	694.11	692.06	694.71	702.64	693.51	691.99	690.70
22	690.08	690.17	690.31	692.12	693.44	694.12	692.05	694.69	701.58	693.40	691.97	690.66
23	690.10	690.12	690.32	692.20	693.45	694.10	692.03	694.67	700.55	693.27	691.94	690.61
24	690.11	690.07	690.35	692.29	693.49	694.05	692.32	694.64	699.51	693.15	691.91	690.57
25	690.11	690.05	690.39	692.39	693.81	693.99	692.78	694.60	698.23	693.03	691.88	690.53
26	690.09	690.04	690.42	692.46	694.10	693.91	693.02	694.58	697.05	692.91	691.84	690.50
27	690.10	690.03	690.49	692.53	694.17	693.85	693.12	694.56	696.28	692.80	691.78	690.45
28	690.11	690.01	690.57	692.61	694.20	693.77	693.20	694.69	695.75	692.70	691.73	690.41
29	690.13	690.03	690.62	692.68	694.29	693.72	693.27	694.71	695.73	693.06	691.72	690.37
30	690.12	690.03	690.65	692.74	---	693.64	693.34	694.68	---	693.28	691.68	690.33
31	690.11	---	690.70	692.83	---	693.58	---	694.65	---	693.30	691.62	---
MEAN	689.95	690.13	690.23	691.64	693.54	694.27	692.65	694.57	---	---	692.26	690.92
MAX	690.13	690.27	690.70	692.83	694.29	694.72	693.49	694.74	---	---	693.27	691.56
MIN	689.63	689.99	689.99	690.76	692.91	693.58	692.03	693.87	---	---	691.62	690.33

08046500 Benbrook Lake near Benbrook, TX—Continued



TRINITY RIVER BASIN

08047000 Clear Fork Trinity River near Benbrook, TX

LOCATION.--Lat 32°39'54", long 97°26'30", Tarrant County, Hydrologic Unit 12030102, on left bank 1.5 mi downstream from Benbrook Dam, 1.7 mi southeast of Benbrook, 2.9 mi upstream from Marys Creek, and 13.1 mi upstream from mouth.

DRAINAGE AREA.--431 mi².

PERIOD OF RECORD.--July 1947 to current year.

REVISED RECORDS.--WDR TX-89-1: 1988.

GAGE.--Water-stage recorder. Datum of gage is 604.22 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1953, at least 10% of contributing drainage area has been regulated. No flow at times most years.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1948-52) prior to regulation by Benbrook Lake, 105 ft³/s (76,070 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1948-1952: Maximum discharge, 82,900 ft³/s, May 17, 1949, gage height, 28.72 ft from rating curve extended above 11,000 ft³/s on basis of velocity-area studies and slope-area measurement of 82,900 ft³/s; no flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	69	68	6.0	0.24	23	36	53	20	19	18
2	20	20	74	68	4.6	0.15	23	21	45	393	39	3.9
3	17	19	75	69	3.9	0.16	24	20	48	642	75	3.1
4	17	19	74	68	5.2	1.5	23	20	47	636	73	3.5
5	20	19	76	31	4.5	0.21	23	20	51	423	66	3.7
6	18	18	75	3.7	3.7	0.15	24	19	51	278	67	3.8
7	17	20	75	3.9	3.8	0.15	22	20	76	183	68	3.3
8	18	7.5	75	3.9	3.9	0.17	22	20	64	90	67	3.4
9	21	5.8	77	3.1	3.9	0.16	22	20	92	32	68	3.9
10	19	5.2	78	3.9	3.9	0.10	23	20	58	31	67	3.9
11	19	5.2	78	3.9	7.5	0.06	23	21	55	30	67	3.7
12	20	5.5	81	2.9	4.6	0.01	23	21	54	30	67	3.7
13	20	5.3	81	3.7	4.3	0.10	23	22	54	28	66	3.6
14	20	5.7	79	4.2	6.0	0.06	22	12	808	28	67	3.2
15	19	5.9	79	4.5	4.6	0.01	21	3.8	2,250	28	67	3.5
16	19	5.6	80	18	4.3	0.01	22	5.5	2,810	24	68	3.7
17	19	40	80	10	4.0	8.1	22	5.4	3,150	14	66	3.8
18	18	61	81	4.9	3.1	15	23	5.6	3,000	13	66	4.0
19	19	61	85	4.5	2.9	15	23	5.9	2,960	9.6	52	4.5
20	18	61	86	4.2	5.2	16	22	8.5	2,920	18	14	4.5
21	17	61	85	4.2	5.5	17	22	14	2,870	44	14	4.8
22	18	61	78	4.2	5.5	15	22	15	2,820	45	13	4.5
23	18	64	73	3.6	8.9	15	23	14	2,730	47	13	4.5
24	18	62	73	4.5	11	15	43	15	2,700	49	12	5.1
25	19	62	73	4.1	15	15	22	14	2,710	49	12	5.5
26	19	61	73	3.9	0.27	16	21	29	2,130	49	12	5.0
27	18	62	73	3.8	0.19	16	21	56	1,670	49	24	5.7
28	18	61	75	3.9	0.16	18	21	43	1,530	52	38	5.3
29	19	61	73	3.9	1.5	16	21	43	488	54	37	6.2
30	18	61	73	4.2	---	15	28	44	37	20	37	5.7
31	19	---	71	4.1	---	18	---	44	---	19	36	---
TOTAL	577	1,024.7	2,378	427.7	137.92	233.34	697	657.7	38,331	3,427.6	1,457	141.0
MEAN	18.6	34.2	76.7	13.8	4.76	7.53	23.2	21.2	1,278	111	47.0	4.70
MAX	21	64	86	69	15	18	43	56	3,150	642	75	18
MIN	17	5.2	69	2.9	0.16	0.01	21	3.8	37	9.6	12	3.1
AC-FT	1,140	2,030	4,720	848	274	463	1,380	1,300	76,030	6,800	2,890	280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004z, BY WATER YEAR (WY)

MEAN	22.4	85.7	56.4	76.6	88.4	181	117	209	223	57.9	25.2	17.4
MAX	215	1,479	680	1,845	792	1,734	881	2,351	1,804	1,070	198	164
(WY)	(1994)	(1992)	(1992)	(1992)	(1992)	(1997)	(1977)	(1990)	(1957)	(1989)	(1979)	(1962)
MIN	0.00	0.05	0.04	0.00	0.00	0.13	0.10	0.00	0.00	0.03	0.00	0.00
(WY)	(1953)	(1971)	(1954)	(1953)	(1953)	(1953)	(1959)	(1959)	(1953)	(1953)	(1953)	(1953)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

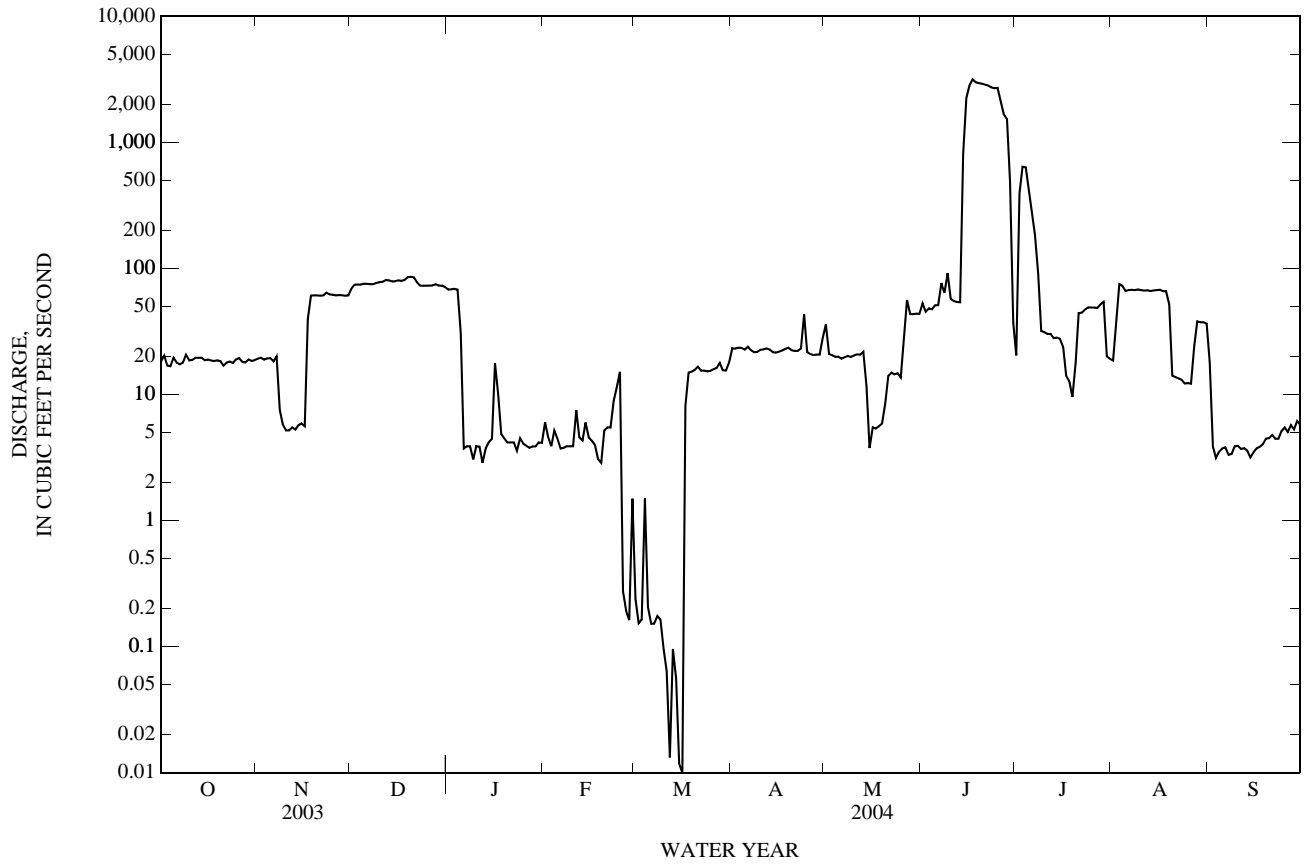
FOR 2004 WATER YEAR

WATER YEARS 1953 - 2004z

ANNUAL TOTAL	13,393.56	49,489.96	
ANNUAL MEAN	36.7	135	96.7
HIGHEST ANNUAL MEAN			514
LOWEST ANNUAL MEAN			0.27
HIGHEST DAILY MEAN	738	3,150	6,320
LOWEST DAILY MEAN	0.81	0.01	0.00
ANNUAL SEVEN-DAY MINIMUM	1.2	0.05	0.00
MAXIMUM PEAK FLOW		3,300	6,740
MAXIMUM PEAK STAGE		9.80	14.71
ANNUAL RUNOFF (AC-FT)	26,570	98,160	70,030
10 PERCENT EXCEEDS	74	78	184
50 PERCENT EXCEEDS	18	20	7.0
90 PERCENT EXCEEDS	2.4	3.7	0.10

z Period of regulated streamflow.

08047000 Clear Fork Trinity River near Benbrook, TX—Continued



TRINITY RIVER BASIN

08047050 Marys Creek at Benbrook, TX

LOCATION.--Lat 32°41'42", long 97°26'49", Tarrant County, Hydrologic Unit 12030102, on left bank of upstream side of bridge, 0.75 mi north of I-20 on Winscott Road in Benbrook, 0.125 mi downstream from confluence with Walnut Creek and 0.25 mi upstream from confluence with Clear Fork Trinity River.

DRAINAGE AREA.--54.0 mi².

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 604.97 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation. Low flow is affected at times by diversions from small dams upstream. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	0.27	1.2	2.8	16	80	9.4	126	40	148	2.7	1.5
2	0.10	0.27	1.7	2.6	11	40	9.5	50	41	80	2.6	1.9
3	0.09	0.25	2.3	2.8	3.2	45	9.5	30	41	75	2.2	0.58
4	0.09	0.37	0.99	2.5	20	91	8.1	23	6.3	61	1.4	0.51
5	17	12	1.1	1.4	14	100	9.1	19	3.5	49	1.3	0.38
6	1.3	2.8	1.5	1.4	7.2	41	19	17	11	44	1.2	0.29
7	0.65	47	1.4	1.7	4.3	32	13	18	2,850	41	1.1	0.27
8	0.44	20	1.9	2.4	5.6	26	9.7	17	204	37	1.1	0.19
9	13	12	1.5	1.8	5.1	26	8.1	18	4,100	33	1.0	0.16
10	1.0	3.8	0.90	1.4	4.0	20	7.3	18	273	30	1.1	0.17
11	1.1	2.3	0.91	1.4	34	22	14	21	185	23	0.98	0.13
12	1.1	2.0	24	1.8	13	21	11	34	123	20	0.92	0.10
13	0.77	1.7	8.5	2.5	5.5	29	8.3	38	87	18	0.85	0.10
14	0.71	1.5	3.3	2.1	21	42	6.9	25	83	16	0.81	0.10
15	0.79	1.2	3.5	8.4	11	28	7.4	17	71	11	0.74	0.10
16	0.51	1.3	2.5	68	8.3	20	6.1	14	62	10	0.74	0.11
17	0.34	18	2.7	56	8.4	16	5.0	12	54	8.8	0.71	0.10
18	0.24	8.3	3.1	18	7.9	16	4.9	9.2	45	7.1	0.66	0.10
19	0.36	2.9	2.2	7.5	8.8	12	5.2	7.4	40	5.8	83	0.11
20	0.34	5.3	1.9	4.6	8.3	22	5.1	5.5	39	4.5	8.7	0.10
21	0.19	2.9	2.1	3.7	6.8	67	5.7	3.0	34	4.0	2.2	0.10
22	0.10	1.9	2.4	3.5	5.4	25	3.1	4.4	32	5.5	2.2	0.10
23	0.09	14	5.7	3.1	42	19	3.3	2.6	28	5.8	1.4	0.10
24	0.09	2.0	3.4	5.5	70	17	130	2.3	27	3.4	1.2	0.09
25	0.09	1.7	4.2	4.3	207	17	31	2.4	68	3.4	1.1	0.09
26	0.09	1.7	5.2	3.2	73	16	14	1.7	56	3.9	1.2	0.08
27	0.09	1.4	10	1.9	55	16	14	35	92	3.0	1.0	0.07
28	0.13	1.2	15	2.4	53	17	8.7	8.8	303	27	8.5	0.06
29	0.14	1.3	2.3	3.2	144	14	6.5	1.0	200	66	1.3	0.08
30	0.15	2.8	2.2	2.5	---	11	39	0.63	267	8.7	0.67	0.07
31	0.15	---	2.0	2.5	---	9.9	---	0.49	---	3.6	0.86	---
TOTAL	41.40	174.16	121.60	226.9	872.8	957.9	431.9	581.42	9,465.8	856.5	135.44	7.84
MEAN	1.34	5.81	3.92	7.32	30.1	30.9	14.4	18.8	316	27.6	4.37	0.26
MAX	17	47	24	68	207	100	130	126	4,100	148	83	1.9
MIN	0.09	0.25	0.90	1.4	3.2	9.9	3.1	0.49	3.5	3.0	0.66	0.06
AC-FT	82	345	241	450	1,730	1,900	857	1,150	18,780	1,700	269	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	4.91	9.19	11.8	15.6	47.1	47.2	24.0	31.5	75.6	7.31	2.38	3.02
MAX	12.3	32.7	24.6	50.2	181	127	43.8	87.5	316	27.6	5.98	12.9
(WY)	(2003)	(2001)	(2003)	(2001)	(2001)	(2001)	(2002)	(1999)	(2004)	(2004)	(2001)	(2003)
MIN	1.34	0.70	3.73	2.36	6.80	11.1	14.4	9.71	1.33	0.21	0.18	0.12
(WY)	(2004)	(2003)	(2000)	(2000)	(2000)	(2000)	(2004)	(2000)	(1998)	(1998)	(2000)	(2000)

SUMMARY STATISTICS

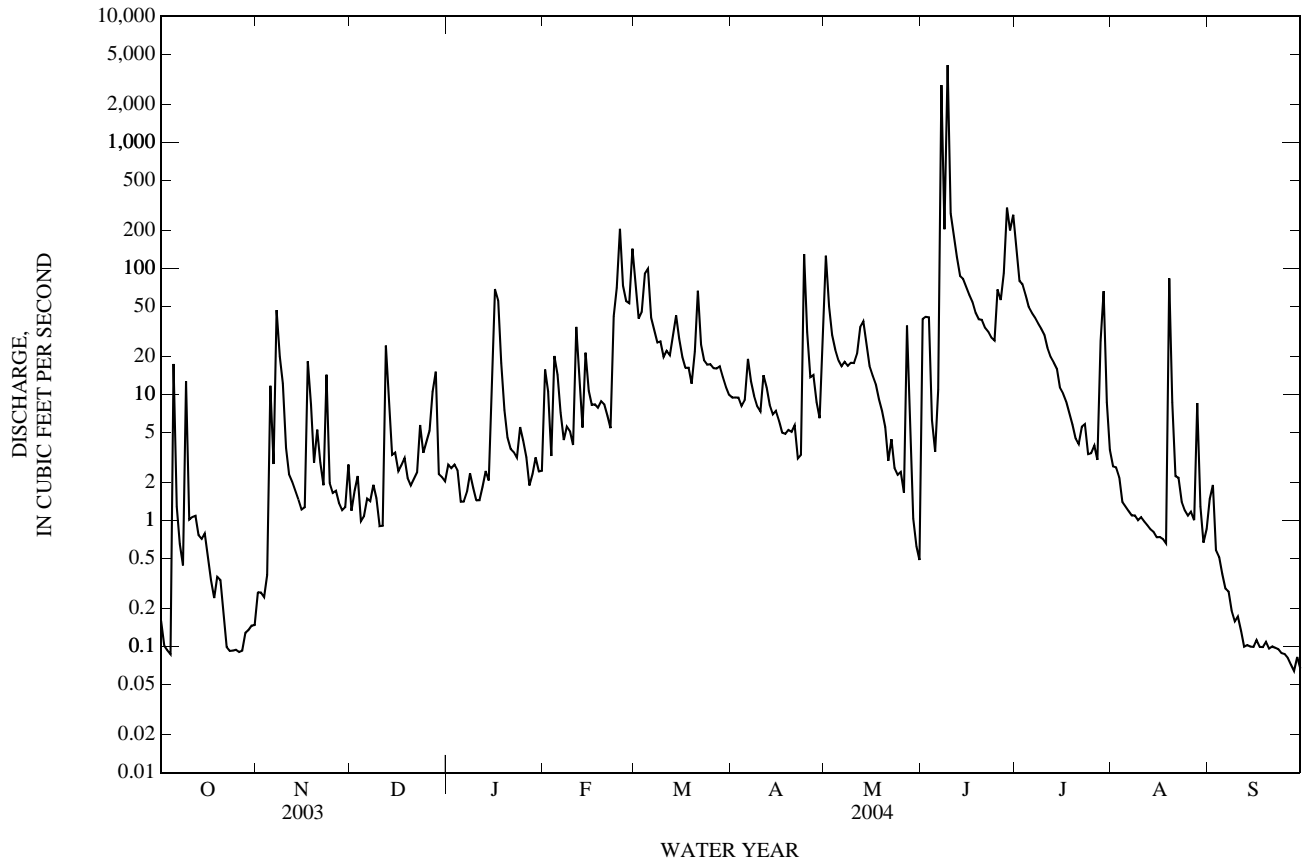
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1998 - 2004

ANNUAL TOTAL	5,099.62	13,873.66	
ANNUAL MEAN	14.0	37.9	24.2
HIGHEST ANNUAL MEAN			42.5
LOWEST ANNUAL MEAN			14.8
HIGHEST DAILY MEAN	276	4,100	4,100
LOWEST DAILY MEAN	0.09	0.06	0.00
ANNUAL SEVEN-DAY MINIMUM	0.10	0.08	0.00
MAXIMUM PEAK FLOW		23,900	23,900
MAXIMUM PEAK STAGE		18.11	18.11
ANNUAL RUNOFF (AC-FT)	10,120	27,520	17,560
10 PERCENT EXCEEDS	38	53	47
50 PERCENT EXCEEDS	7.2	5.1	4.6
90 PERCENT EXCEEDS	0.44	0.18	0.09

08047050 Marys Creek at Benbrook, TX—Continued



08047500 Clear Fork Trinity River at Fort Worth, TX

LOCATION.--Lat 32°43'56", long 97°21'31", Tarrant County, Hydrologic Unit 12030102, at Fort Worth pumping station on left bank, 240 ft upstream from the Texas and Pacific Railway Co. bridge in Fort Worth, 830 ft upstream from East West Expressway bridge, 2.5 mi upstream from mouth, 5.0 mi downstream from Marys Creek, and 10.0 mi downstream from Benbrook Dam.

DRAINAGE AREA.--518 mi².

PERIOD OF RECORD.--Mar. 1924 to current year.

REVISED RECORDS.--WSP 1392: 1924-25, 1927. WSP 1922: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 532.91 ft above NGVD of 1929. Prior to Apr. 3, 1970, various nonrecording and recording gages were located within 650 ft of present site at different datums. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1953, at least 10% of contributing drainage area has been regulated. The city of Fort Worth diverted water from pool at gage during the current year. The Benbrook Water and Sewage Authority diverted water from the river upstream from station for municipal use.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--28 years (water years 1925-52) prior to regulation by Benbrook Lake, 112 ft³/s (81,140 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 25, 1922, reached a stage of 27.5 ft, present datum, discharge, 74,300 ft³/s, by slope-area measurement of peak flow; data furnished by Fort Worth city engineer. Maximum stage since at least 1900, that of May 17, 1949, at present datum.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1924-1952: Maximum discharge, 107,000 ft³/s, May 17, 1949, gage height, 28.20 ft, present datum, from rating curve extended above 16,000 ft³/s on basis of contracted-opening measurement of 107,000 ft³/s. No flow at times many years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	13	36	36	104	49	599	350	233	33	39
2	29	25	5.1	47	52	60	51	100	327	598	31	25
3	27	26	5.8	69	15	63	49	82	358	1,070	43	19
4	28	26	7.7	67	40	234	52	79	72	1,050	29	17
5	87	41	8.1	52	36	133	45	67	32	732	19	18
6	59	41	8.0	15	20	64	91	61	22	410	14	47
7	36	220	7.4	10	15	57	56	60	2,420	296	15	24
8	33	76	5.3	9.2	15	49	49	69	548	150	16	17
9	111	53	7.7	8.2	14	49	45	70	4,760	58	18	18
10	37	25	10	8.7	13	45	44	61	697	49	17	16
11	36	19	17	9.8	90	43	52	76	272	45	15	15
12	38	16	74	8.6	35	40	70	78	194	42	13	15
13	33	14	54	7.1	20	72	49	83	163	38	14	15
14	29	12	49	6.4	40	75	44	81	704	37	37	15
15	28	13	22	8.2	32	55	42	31	2,200	43	38	15
16	27	13	20	300	24	47	40	30	2,700	35	31	14
17	25	66	24	229	20	43	41	29	2,950	33	28	13
18	26	47	37	37	18	56	39	26	2,830	26	30	23
19	31	33	45	23	17	53	40	23	2,810	24	834	28
20	27	31	44	18	15	54	41	19	2,800	27	61	16
21	27	23	40	16	14	106	42	25	2,770	40	39	13
22	21	24	38	15	13	57	38	30	2,750	31	39	12
23	25	52	31	14	145	49	48	32	2,730	6.8	38	11
24	25	31	39	22	196	48	747	28	2,710	4.5	36	15
25	23	40	41	26	763	48	134	31	2,950	3.4	35	14
26	25	38	46	15	103	48	64	32	2,400	1.6	23	14
27	26	17	40	12	71	47	55	348	2,800	12	7.3	13
28	25	14	92	11	61	77	51	151	3,510	149	70	12
29	24	13	39	11	329	51	49	57	1,670	791	41	11
30	24	14	37	11	---	43	324	53	718	44	37	11
31	22	---	37	11	---	41	---	42	---	35	35	---
TOTAL	1,039	1,087	944.1	1,133.2	2,262	2,011	2,541	2,553	52,217	6,114.3	1,736.3	535
MEAN	33.5	36.2	30.5	36.6	78.0	64.9	84.7	82.4	1,741	197	56.0	17.8
MAX	111	220	92	300	763	234	747	599	4,760	1,070	834	47
MIN	21	12	5.1	6.4	13	40	38	19	22	1.6	7.3	11
AC-FT	2,060	2,160	1,870	2,250	4,490	3,990	5,040	5,060	103,600	12,130	3,440	1,060

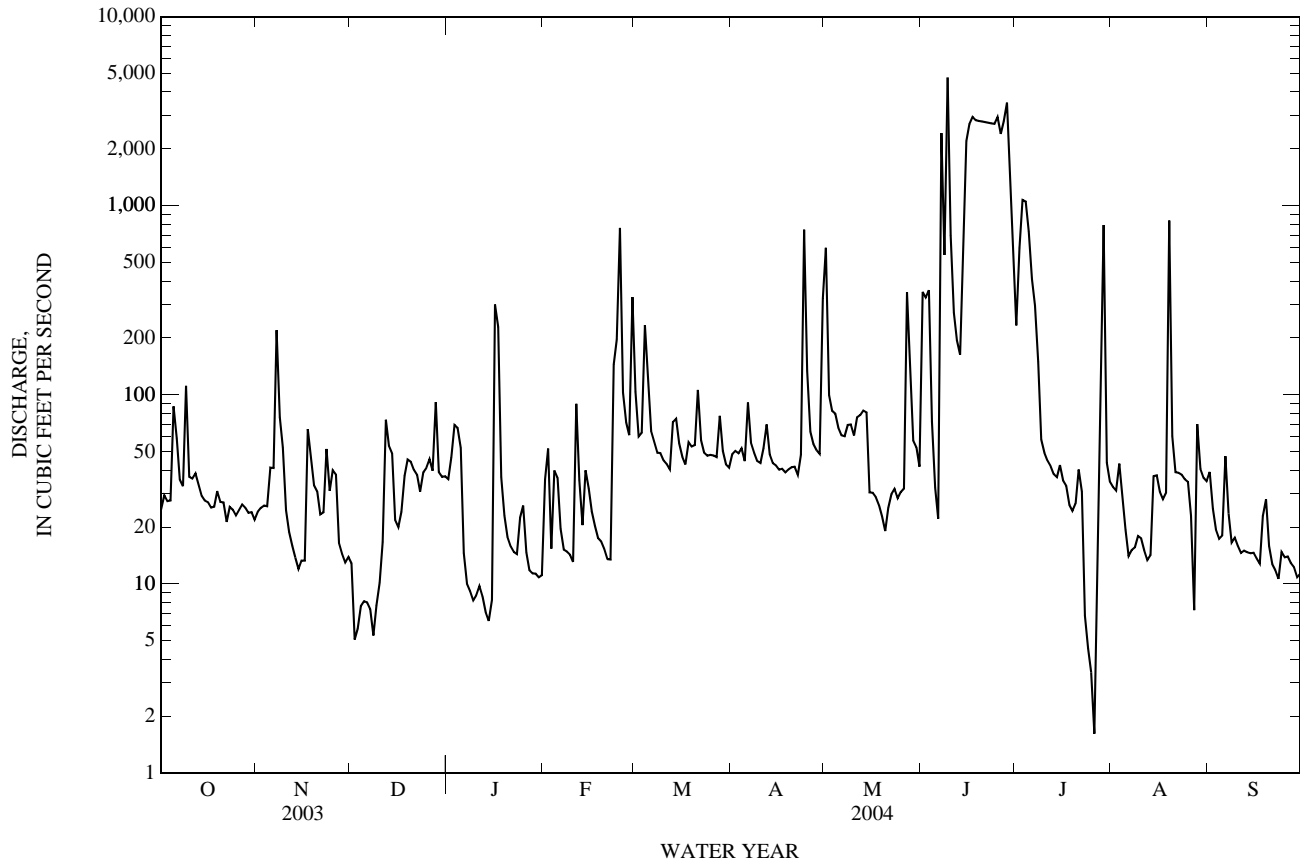
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004z, BY WATER YEAR (WY)

MEAN	56.1	104	85.4	106	139	249	183	297	282	73.6	32.7	31.4
MAX	353	1,555	1,118	2,198	1,019	1,838	1,012	3,020	2,219	1,300	247	245
(WY)	(1994)	(1992)	(1992)	(1992)	(1992)	(1997)	(1977)	(1990)	(1989)	(1989)	(1979)	(1962)
MIN	0.00	0.84	1.68	2.28	2.84	0.91	3.12	3.41	0.27	0.75	0.54	0.28
(WY)	(1953)	(1955)	(1979)	(1957)	(1953)	(1956)	(1954)	(1959)	(1953)	(1954)	(1954)	(1954)

08047500 Clear Fork Trinity River at Fort Worth, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004z	
ANNUAL TOTAL	22,338.60		74,172.9		136	
ANNUAL MEAN	61.2		203		660	
HIGHEST ANNUAL MEAN					4.55	
LOWEST ANNUAL MEAN					11,000	
HIGHEST DAILY MEAN	1,080	Feb 27	4,760	Jun 9	Mar 11, 1990	
LOWEST DAILY MEAN	0.00	Jul 24	1.6	Jul 26	0.00	
ANNUAL SEVEN-DAY MINIMUM	2.7	Jul 30	6.8	Dec 2	0.00	
MAXIMUM PEAK FLOW			17,600	Jun 28	20,900	
MAXIMUM PEAK STAGE			15.93	Jun 28	16.80	
ANNUAL RUNOFF (AC-FT)	44,310		147,100		98,800	
10 PERCENT EXCEEDS	109		325		297	
50 PERCENT EXCEEDS	27		37		17	
90 PERCENT EXCEEDS	7.3		13		1.3	

z. Period of regulated streamflow.



08048000 West Fork Trinity River at Fort Worth, TX

LOCATION.--Lat 32°45'39", long 97°19'56", Tarrant County, Hydrologic Unit 12030102, on left bank 125 ft upstream from Texas Electric Service Co. concrete dam, 980 ft downstream from centerline of Paddock Viaduct (North Main Street) at Fort Worth, 2,600 ft downstream from Clear Fork Trinity River and at mile 556.8.

DRAINAGE AREA.--2,615 mi².

PERIOD OF RECORD.--Oct. 1920 to current year. Gage-height records collected in this vicinity since 1910 are contained in reports of the National Weather Service. Water-quality records: Chemical data: Oct. 1967 to Sept. 1976. Biochemical data: Oct. 1967 to Sept. 1976.

REVISED RECORDS.--WSP 1392: 1925. WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete dam control with angle-iron-crested notch for flow below 50 ft³/s. Datum of gage is 519.24 ft above NGVD of 1929. Prior to Aug. 22, 1954, at site 1,200 ft upstream at same datum. Aug. 22, 1954, to Oct. 15, 1955, at site 2,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1920, at least 10% of contributing drainage area has been regulated. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake. The city of Fort Worth diverts water upstream of station and from Cedar Creek Reservoir (station 08063010) for municipal and industrial uses and returns wastewater effluent to river downstream from West Fork Trinity River at Beach Street (station 08048543). There are many small diversions upstream from station. Maximum stages have been affected by levee construction, levee breaks and channel rectification. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1866, that of May 17, 1949.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

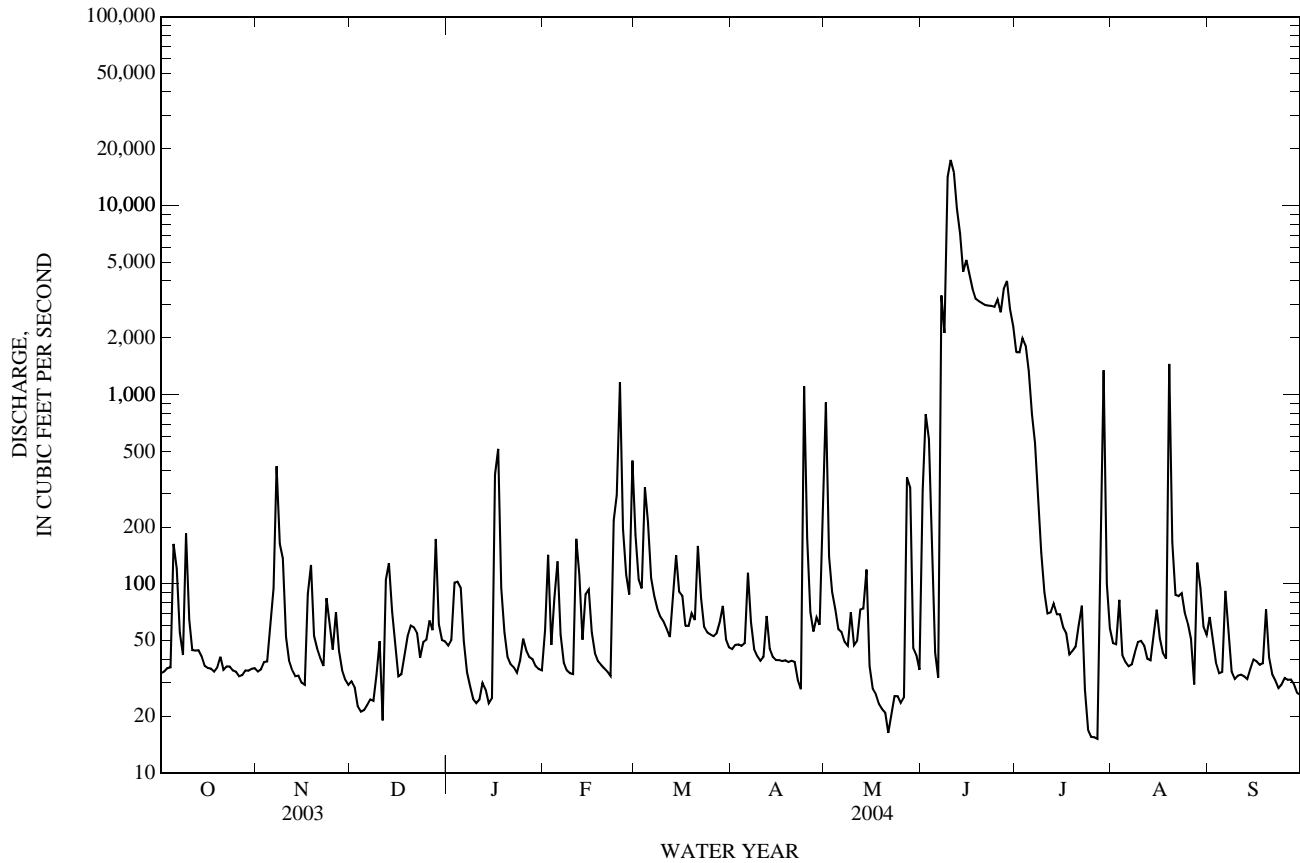
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	34	31	47	57	182	45	910	312	1,680	49	67
2	34	35	28	50	143	106	48	140	788	1,680	48	50
3	36	39	23	101	48	95	48	91	583	1,990	82	38
4	36	39	21	103	84	324	47	73	124	1,820	42	34
5	163	61	21	95	132	213	49	58	43	1,340	39	34
6	120	95	23	50	54	107	115	56	32	791	37	92
7	55	419	24	34	38	87	63	49	3,350	558	38	55
8	42	163	24	29	35	74	45	47	2,120	298	43	34
9	185	137	33	25	34	67	42	71	14,200	147	49	31
10	65	52	50	23	33	63	39	47	17,500	90	50	33
11	45	39	19	24	173	58	41	50	15,000	70	47	33
12	44	35	105	30	112	52	68	73	9,640	71	40	32
13	45	33	129	28	51	83	46	74	7,090	79	39	31
14	41	33	71	23	88	142	41	119	4,480	69	52	35
15	37	30	49	25	93	91	40	37	5,170	69	73	40
16	36	29	32	378	55	87	40	28	4,340	59	52	39
17	36	88	33	518	43	60	39	26	3,630	55	43	37
18	34	126	42	95	39	60	39	23	3,230	42	40	38
19	36	53	53	55	37	70	39	22	3,140	44	1,460	73
20	41	45	60	41	36	64	39	21	3,060	47	167	41
21	35	41	59	38	34	159	39	16	2,990	60	87	33
22	37	37	55	36	33	84	31	20	2,960	77	86	31
23	37	84	41	34	217	59	28	25	2,950	28	89	28
24	35	61	49	39	295	55	1,110	26	2,920	17	71	29
25	34	45	51	51	1,170	54	175	24	3,190	16	61	32
26	32	71	64	44	195	53	71	25	2,730	15	51	31
27	33	44	57	41	112	55	56	366	3,640	15	29	31
28	35	35	173	40	88	63	67	324	4,000	205	130	29
29	35	31	61	37	449	76	61	46	2,830	1,350	95	26
30	36	29	50	35	---	51	247	42	2,300	100	60	26
31	36	---	50	35	---	46	---	35	---	58	54	---
TOTAL	1,550	2,063	1,581	2,204	3,978	2,840	2,858	2,964	128,342	12,940	3,303	1,163
MEAN	50.0	68.8	51.0	71.1	137	91.6	95.3	95.6	4,278	417	107	38.8
MAX	185	419	173	518	1,170	324	1,110	910	17,500	1,990	1,460	92
MIN	32	29	19	23	33	46	28	16	32	15	29	26
AC-FT	3,070	4,090	3,140	4,370	7,890	5,630	5,670	5,880	254,600	25,670	6,550	2,310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	280	276	262	239	385	530	597	1,091	799	237	113	147
MAX	4,548	3,855	6,071	3,521	4,130	3,523	5,595	12,430	10,240	3,030	1,447	2,482
(WY)	(1982)	(1982)	(1992)	(1992)	(1997)	(1998)	(1942)	(1990)	(1989)	(1941)	(1950)	(1962)
MIN	0.12	3.64	5.02	6.08	5.57	4.72	7.71	15.2	5.73	1.33	0.00	0.00
(WY)	(1940)	(1956)	(1935)	(1930)	(1940)	(1940)	(1930)	(1959)	(1954)	(1956)	(1956)	(1930)

08048000 West Fork Trinity River at Fort Worth, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	33,311		165,786		413	
ANNUAL MEAN	91.3		453		1,823	
HIGHEST ANNUAL MEAN					15.6	
LOWEST ANNUAL MEAN					47,300	
HIGHEST DAILY MEAN	1,070	Feb 26	17,500	Jun 10	85,000	Apr 25, 1922
LOWEST DAILY MEAN	11	Jul 24	15	Jul 26	0.00	Aug 2, 1924
ANNUAL SEVEN-DAY MINIMUM	13	Jul 22	22	May 17	0.00	Jul 24, 1925
MAXIMUM PEAK FLOW			19,700	Jun 9	25.91	Apr 25, 1922
MAXIMUM PEAK STAGE			7.00	Jun 9	25.91	May 17, 1949
ANNUAL RUNOFF (AC-FT)	66,070		328,800		299,100	
10 PERCENT EXCEEDS	184		644		1,060	
50 PERCENT EXCEEDS	42		50		40	
90 PERCENT EXCEEDS	21		29		6.4	



08048543 West Fork Trinity River at Beach Street, Fort Worth, TX

LOCATION.--Lat 32°45'06", long 97°17'21", Tarrant County, Hydrologic Unit 12030102, on downstream side of bridge on Beach Street, 1,700 ft downstream from Sycamore Creek, 0.9 mi downstream from Riverside Drive bridge, 2.6 mi east of the Tarrant County Courthouse and at mile 549.6.

DRAINAGE AREA.--2,685 mi².

PERIOD OF RECORD.--Oct. 1976 to current year. Water-quality records: Chemical data: Oct. 1976 to Sept. 1999. Biochemical data: Oct. 1976 to Sept. 1999. Specific conductance: Oct. 1976 to Sept. 2002. pH: Oct. 1976 to Sept. 2002. Water temperature: Oct 1976 to Sept. 2002. Dissolved oxygen: Oct. 1976 to Sept. 2002.

GAGE.--Water-stage recorder. Datum of gage is 478.70 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1976, at least 10% of contributing drainage area has been regulated. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake. There are many diversions upstream from this station for municipal, industrial, and other uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1866 probably occurred in May 1949 (stage and discharge unknown). Maximum stages have been affected by levee construction, levee breaks, and channel rectification.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	51	39	47	59	437	45	1,350	416	2,180	74	49
2	54	51	38	45	207	215	44	232	1,460	2,050	61	49
3	55	53	36	77	64	185	44	23	1,300	2,250	84	42
4	56	54	35	93	136	624	41	0.00	425	2,160	61	40
5	251	63	35	87	263	537	41	0.00	213	1,840	51	39
6	250	98	33	64	93	176	106	7.8	151	1,430	44	82
7	98	569	34	43	51	121	79	38	3,630	1,280	39	86
8	72	372	35	41	46	104	42	36	2,460	941	39	44
9	282	265	37	38	42	100	40	39	15,000	542	20	40
10	103	96	42	37	42	86	38	35	18,200	380	0.00	39
11	67	70	40	36	270	82	43	67	12,100	290	0.00	38
12	69	62	122	35	219	77	91	78	5,570	218	3.7	37
13	66	59	272	37	81	96	57	65	4,330	196	31	36
14	62	56	99	35	136	159	42	158	3,210	153	37	37
15	56	55	73	37	154	106	39	37	3,550	117	49	37
16	54	53	41	486	85	91	35	27	3,150	61	48	36
17	55	282	39	1,060	55	79	36	25	2,810	56	43	36
18	54	439	40	205	48	75	37	24	2,600	50	41	37
19	53	224	45	130	45	77	37	22	2,570	48	1,890	83
20	55	101	49	91	45	73	35	21	2,540	51	421	45
21	55	43	54	81	43	128	33	19	2,510	50	152	39
22	54	42	54	73	42	94	18	18	2,510	62	115	37
23	55	96	44	65	267	69	0.00	20	2,520	45	95	36
24	53	79	43	86	435	64	1,440	22	2,520	37	61	36
25	53	49	45	127	1,660	61	563	20	2,720	33	50	36
26	52	58	53	89	387	58	245	19	2,490	32	47	36
27	54	52	56	57	184	56	134	313	3,270	33	41	36
28	54	43	241	39	141	82	104	655	4,860	401	170	36
29	54	40	80	38	732	89	48	120	3,420	2,300	131	36
30	53	39	49	38	---	53	201	75	2,820	248	56	34
31	53	---	47	38	---	45	---	72	---	119	48	---
TOTAL	2,456	3,614	1,950	3,455	6,032	4,299	3,758.00	3,637.80	115,325	19,653	4,002.70	1,294
MEAN	79.2	120	62.9	111	208	139	125	117	3,844	634	129	43.1
MAX	282	569	272	1,060	1,660	624	1,440	1,350	18,200	2,300	1,890	86
MIN	52	39	33	35	42	45	0.00	0.00	151	32	0.00	34
AC-FT	4,870	7,170	3,870	6,850	11,960	8,530	7,450	7,220	228,700	38,980	7,940	2,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

MEAN	376	419	420	304	565	918	649	1,456	1,199	228	104	87.0
MAX	4,881	3,878	6,459	4,067	4,288	3,655	5,668	12,540	9,448	1,654	557	216
(WY)	(1982)	(1982)	(1992)	(1992)	(1997)	(1998)	(1990)	(1990)	(1989)	(1982)	(1995)	(1980)
MIN	9.82	23.8	13.7	30.2	33.5	43.9	35.3	20.2	22.4	5.67	9.21	9.27
(WY)	(1978)	(1980)	(1978)	(1978)	(1996)	(1986)	(1983)	(1996)	(1978)	(1978)	(1985)	(1984)

SUMMARY STATISTICS

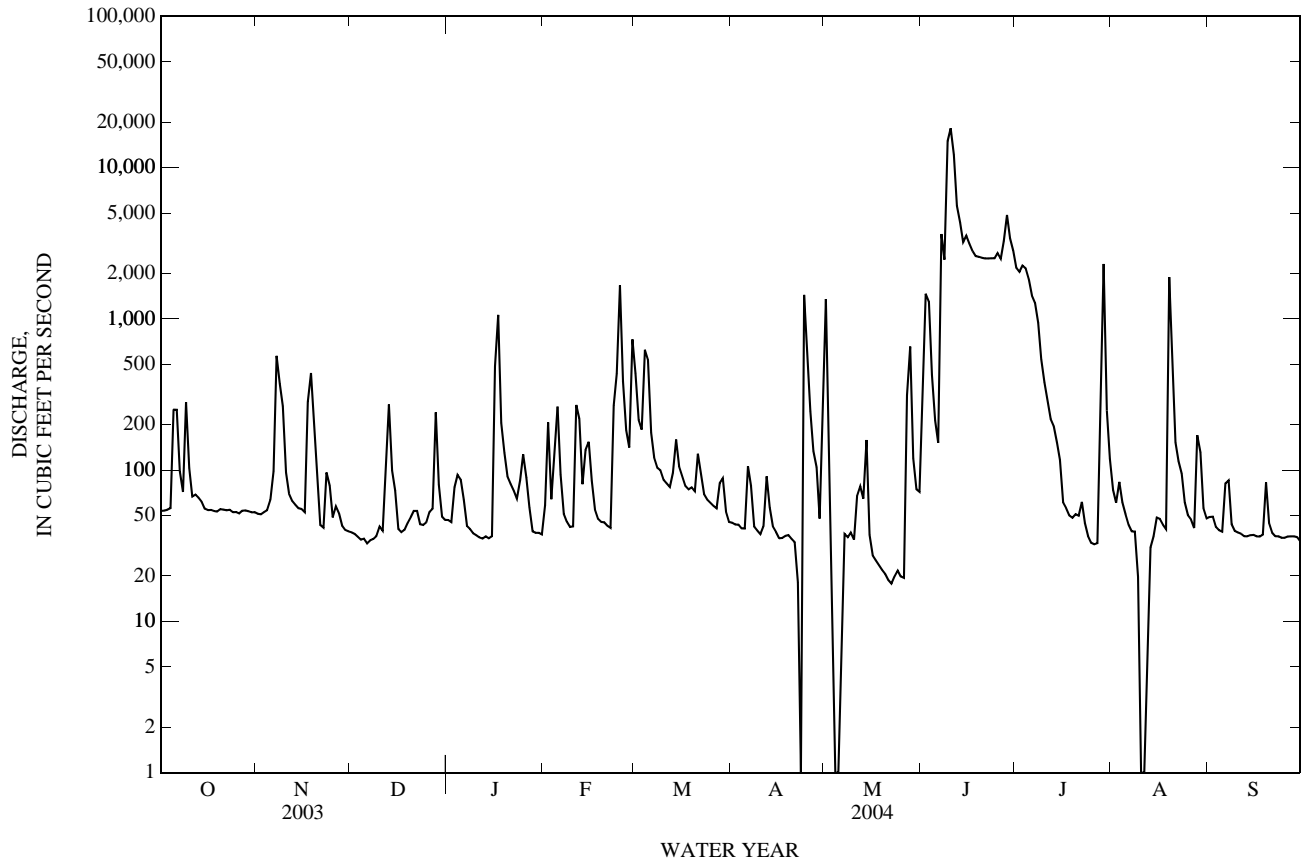
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1977 - 2004

ANNUAL TOTAL	54,186	169,476.50	
ANNUAL MEAN	148	463	560
HIGHEST ANNUAL MEAN			2,071
LOWEST ANNUAL MEAN			40.1
HIGHEST DAILY MEAN	1,880	Jun 13	18,200
LOWEST DAILY MEAN	22	Jul 26	0.00
ANNUAL SEVEN-DAY MINIMUM	29	Jul 24	19
MAXIMUM PEAK FLOW			23,100
MAXIMUM PEAK STAGE			30.82
ANNUAL RUNOFF (AC-FT)	107,500	336,200	405,700
10 PERCENT EXCEEDS	297	1,320	1,450
50 PERCENT EXCEEDS	73	56	57
90 PERCENT EXCEEDS	40	35	16

08048543 West Fork Trinity River at Beach Street, Fort Worth, TX—Continued



TRINITY RIVER BASIN

08048970 Village Creek at Everman, TX

LOCATION.--Lat 32°36'12", long 97°15'53", Tarrant County, Hydrologic Unit 12030102, at center of channel on downstream side of bridge on Rendon Road (Tarrant County Road 1015), 1.4 mi downstream from Deer Creek and 1.8 mi southeast of Everman High School.

DRAINAGE AREA.--84.5 mi².

PERIOD OF RECORD.--Oct. 1989 to current year. Water-quality records: Chemical data: Oct. 1989 to Aug. 2002. Biochemical data: Oct. 1989 to Aug. 2002. Specific conductance: Oct. 1989 to Sept. 1990. pH: Oct. 1989 to Sept. 1990. Water temperature: Oct. 1989 to Sept. 1990. Dissolved oxygen: Oct. 1989 to Sept. 1990.

REVISED RECORDS.--WRD-TX-00-2: 2000 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 589.93 ft above NGVD of 1929 (Tarrant County Public Works Department reference mark). Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No flow at times. No known regulation or diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since about 1930, 27.37 ft, date uncertain, but may be same date, Mar. 27, 1977, as date of maximum stage at downstream station, Village Creek at Kennedale (station 08048980). Flood of May 18, 1989, may have equalled, or slightly exceeded, the indicated known maximum stage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.98	1.4	0.61	1.3	3.0	164	5.9	1,320	5.6	147	167	4.0
2	0.99	1.6	0.70	1.6	39	73	5.8	213	244	71	124	3.9
3	0.88	1.7	1.9	1.5	7.0	50	5.6	91	466	37	99	3.6
4	0.55	2.1	0.98	1.4	6.6	362	5.9	52	85	23	95	3.1
5	276	2.1	1.1	0.92	106	286	5.3	30	22	16	85	3.3
6	144	2.4	1.4	0.66	29	93	27	21	10	13	70	3.2
7	53	20	1.3	0.46	9.4	52	13	17	45	11	58	6.5
8	14	20	0.93	0.58	5.7	30	5.7	14	394	10	43	3.8
9	195	6.3	1.2	1.0	5.5	29	4.9	42	3,200	11	41	3.0
10	62	4.4	1.1	1.2	4.6	18	4.6	15	1,400	13	39	2.5
11	15	2.3	1.1	1.2	75	16	4.3	9.9	321	11	59	2.5
12	16	0.38	21	1.1	90	15	7.0	16	234	12	48	2.6
13	8.5	0.14	46	1.1	25	22	6.5	10	188	12	25	2.5
14	5.5	0.14	5.5	0.87	29	94	4.9	24	144	13	21	2.3
15	3.9	0.36	3.1	1.0	35	42	4.0	9.1	80	14	16	2.0
16	3.7	0.69	1.8	162	16	23	3.6	7.0	41	16	15	2.0
17	3.3	107	1.4	419	9.0	17	3.5	5.9	18	20	12	2.0
18	2.7	80	1.1	57	6.3	14	3.3	4.7	14	22	12	4.2
19	2.9	9.2	1.8	18	5.6	12	3.2	3.5	12	23	326	4.7
20	2.3	4.9	3.9	9.2	4.7	13	2.7	3.7	10	26	168	1.9
21	1.7	2.9	3.1	5.9	4.2	10	2.2	3.3	9.3	30	56	1.4
22	2.3	2.0	1.1	4.8	3.5	8.1	2.1	2.3	7.8	32	30	1.5
23	1.9	1.7	0.64	4.1	26	8.1	1.9	0.98	7.3	32	25	1.5
24	1.6	3.5	0.52	18	139	7.9	840	1.2	6.7	41	13	1.7
25	1.7	2.9	0.44	29	1,030	8.5	880	0.71	130	41	9.4	2.0
26	1.4	2.1	0.48	7.0	171	9.2	195	1.3	134	46	7.2	1.6
27	1.2	2.5	0.98	4.3	79	8.9	73	134	128	54	5.6	1.1
28	0.96	2.2	2.1	3.5	50	13	37	279	644	95	5.7	1.0
29	1.4	1.3	3.8	3.2	262	22	22	32	370	4,860	11	1.1
30	2.8	0.65	2.3	3.1	---	7.8	23	8.0	619	700	4.7	1.4
31	2.4	---	1.6	2.9	---	6.2	---	4.2	---	270	3.9	---
TOTAL	830.56	288.86	114.98	766.89	2,276.1	1,534.7	2,202.9	2,375.79	8,989.7	6,722	1,694.5	77.9
MEAN	26.8	9.63	3.71	24.7	78.5	49.5	73.4	76.6	300	217	54.7	2.60
MAX	276	107	46	419	1,030	362	880	1,320	3,200	4,860	326	6.5
MIN	0.55	0.14	0.44	0.46	3.0	6.2	1.9	0.71	5.6	10	3.9	1.0
AC-FT	1,650	573	228	1,520	4,510	3,040	4,370	4,710	17,830	13,330	3,360	155

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	29.2	14.7	39.5	26.0	64.5	64.7	54.9	67.5	61.1	19.5	10.4	5.56
MAX	240	52.1	367	117	165	197	233	339	300	217	54.7	23.2
(WY)	(1992)	(1995)	(1992)	(1992)	(1997)	(2002)	(1990)	(1990)	(2004)	(2004)	(2004)	(2003)
MIN	0.68	0.34	0.72	0.83	1.32	1.13	2.70	0.59	0.19	0.00	0.00	0.00
(WY)	(1990)	(2000)	(1991)	(1996)	(1996)	(1996)	(1996)	(1996)	(1998)	(1998)	(1998)	(2000)

SUMMARY STATISTICS

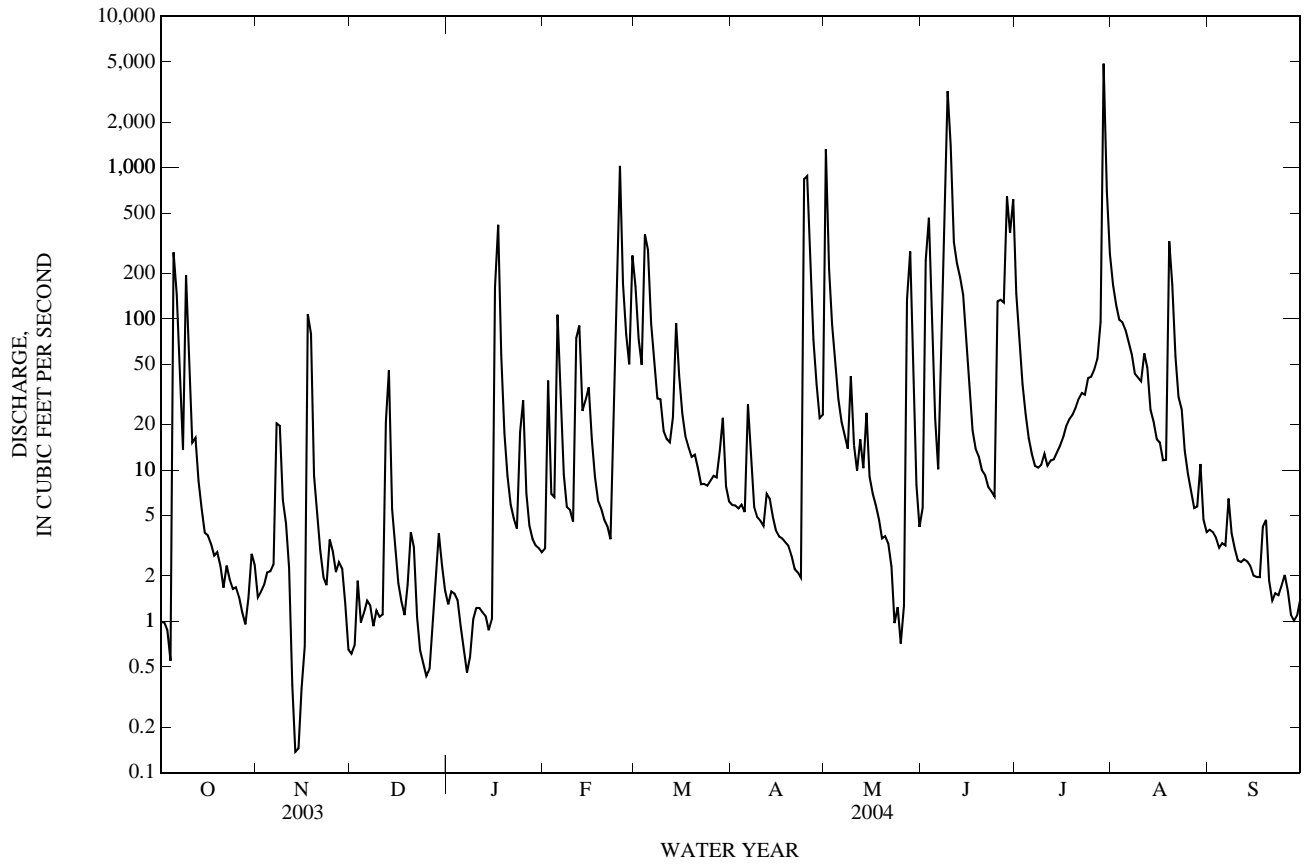
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1990 - 2004

ANNUAL TOTAL	5,817.54	27,874.88	
ANNUAL MEAN	15.9	76.2	38.0
HIGHEST ANNUAL MEAN			92.6
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	622	4,860	7,330
LOWEST DAILY MEAN	0.00	0.14	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.86	0.00
MAXIMUM PEAK FLOW		13,300	13,300
MAXIMUM PEAK STAGE		p22.95	p22.95
ANNUAL RUNOFF (AC-FT)	11,540	55,290	27,510
10 PERCENT EXCEEDS	30	140	50
50 PERCENT EXCEEDS	2.3	7.6	3.5
90 PERCENT EXCEEDS	0.01	1.1	0.00

08048970 Village Creek at Everman, TX—Continued



TRINITY RIVER BASIN

08049200 Lake Arlington at Arlington, TX

LOCATION.--Lat 32°42'58", long 97°11'32", Tarrant County, Hydrologic Unit 12030102, in pumphouse at right end of Arlington Dam on Village Creek near western boundary of Arlington, 1.5 mi upstream from the Texas and Pacific Railway Co. bridge, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--143 mi².

PERIOD OF RECORD.--Mar. 1957 to current year. Water-quality records: Chemical data: Jan. 1964 to June 2002, Biochemical data: Jan. 1964 to June 2002.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 9, 1957, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 6,482 ft long. The service spillway is a 10-foot diameter uncontrolled circular drop inlet. The spillway is an 882-foot-wide cut through natural ground near the right end of dam. The dam was completed and storage began Mar. 31, 1957. The dam was built by the city of Arlington to impound water for municipal and industrial uses. Water is diverted from Cedar Creek Reservoir (station 08063010, conservation pool storage 637,050 acre-ft) into Lake Arlington. Water is pumped from the lake to a generating plant of Texas Electric Service Company. Conservation pool storage is 38,785 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	572.0
Crest of Spillway	559.7
Crest of drop inlet (top of conservation pool)	550.0
Lowest gated outlet (invert)	505.0

COOPERATION.--Capacity Table No. 3 was provided by the Texas Water Development Board and put into effect Oct. 1996.

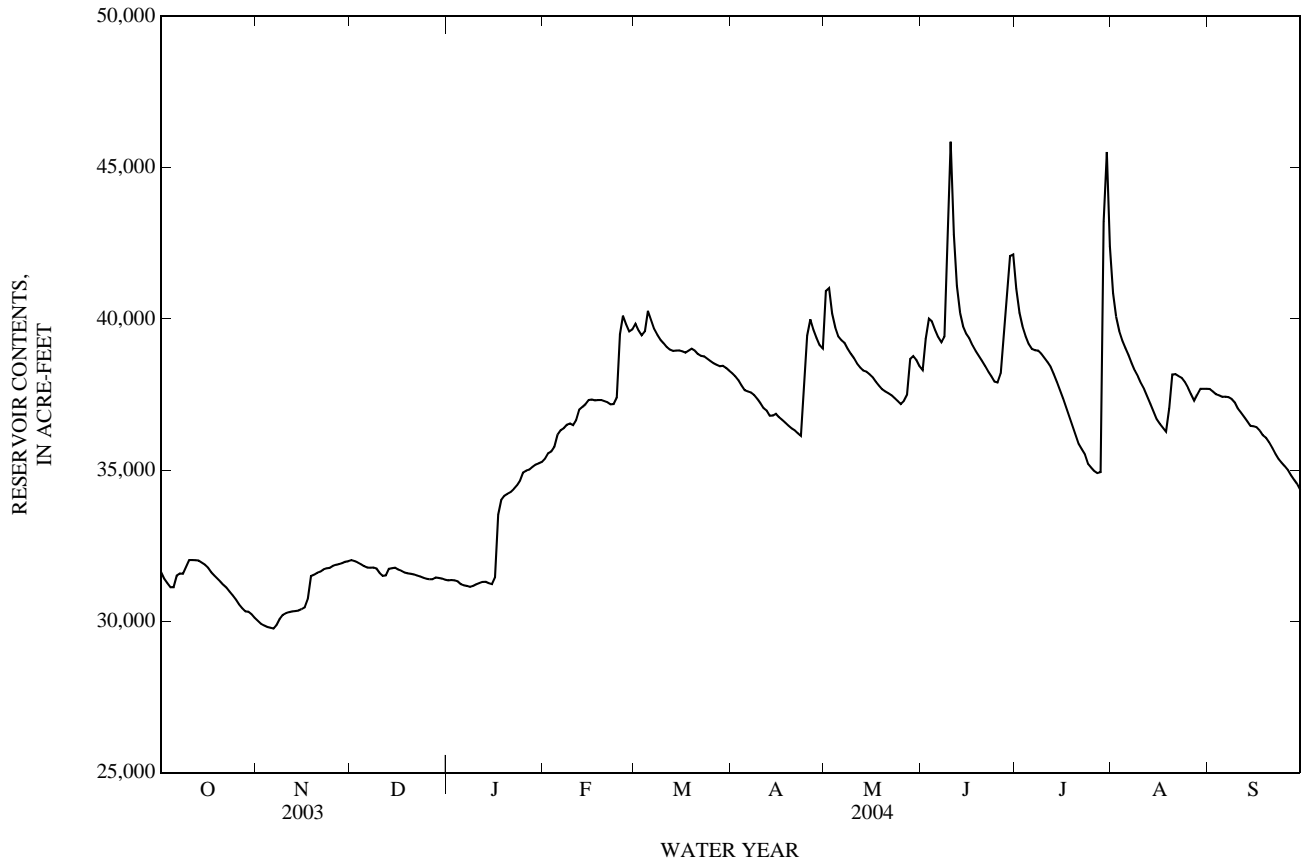
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 72,500 acre-ft, May 17, 1989, elevation, 562.42 ft; minimum contents since lake first filled in Apr. 1957, 16,210 acre-ft, Aug. 5, 11-12, 1998, elevation, 536.51 ft; minimum elevation since lake first filled in Apr. 1957, 534.27 ft, Oct. 17, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 49,220 acre-ft, July 29, elevation, 555.25 ft; minimum contents, 29,720 acre-ft, Nov. 6, 7, elevation, 545.09 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31,630	30,020	32,020	31,360	35,380	39,840	38,200	40,920	38,310	40,990	40,850	37,680
2	31,410	29,930	31,990	31,370	35,560	39,620	38,100	41,010	39,340	40,200	40,070	37,600
3	31,270	29,870	31,950	31,360	35,620	39,450	37,970	40,180	40,010	39,760	39,590	37,510
4	31,130	29,820	31,890	31,320	35,780	39,580	37,800	39,710	39,910	39,420	39,290	37,470
5	31,130	29,790	31,830	31,230	36,170	40,260	37,640	39,420	39,630	39,170	39,030	37,420
6	31,520	29,760	31,780	31,200	36,320	39,950	37,600	39,290	39,400	39,000	38,810	37,430
7	31,580	29,870	31,770	31,170	36,390	39,660	37,570	39,210	39,230	38,960	38,530	37,410
8	31,570	30,080	31,780	31,140	36,500	39,470	37,480	39,010	39,410	38,950	38,290	37,360
9	31,790	30,210	31,750	31,170	36,540	39,310	37,360	38,850	42,100	38,850	38,090	37,240
10	32,030	30,270	31,600	31,220	36,490	39,200	37,210	38,700	45,850	38,710	37,870	37,040
11	32,030	30,300	31,500	31,270	36,660	39,080	37,050	38,520	42,780	38,580	37,670	36,900
12	32,020	30,330	31,520	31,300	37,000	38,980	36,970	38,390	41,080	38,420	37,430	36,760
13	32,010	30,340	31,740	31,310	37,090	38,940	36,800	38,290	40,190	38,190	37,190	36,610
14	31,940	30,360	31,760	31,260	37,180	38,950	36,810	38,250	39,750	37,920	36,930	36,470
15	31,880	30,410	31,780	31,230	37,320	38,960	36,860	38,170	39,500	37,650	36,680	36,450
16	31,780	30,460	31,710	31,450	37,330	38,920	36,750	38,070	39,350	37,370	36,530	36,420
17	31,640	30,740	31,670	33,530	37,300	38,880	36,660	37,920	39,120	37,060	36,400	36,300
18	31,520	31,490	31,620	34,010	37,320	38,950	36,570	37,790	38,940	36,750	36,270	36,150
19	31,420	31,540	31,590	34,150	37,320	39,010	36,470	37,680	38,780	36,460	37,050	36,070
20	31,320	31,610	31,580	34,220	37,280	38,950	36,380	37,600	38,620	36,150	38,160	35,920
21	31,200	31,640	31,550	34,270	37,240	38,840	36,320	37,540	38,450	35,870	38,170	35,730
22	31,110	31,720	31,520	34,380	37,180	38,780	36,220	37,480	38,260	35,690	38,110	35,550
23	30,980	31,750	31,480	34,490	37,180	38,760	36,130	37,390	38,110	35,520	38,050	35,370
24	30,860	31,770	31,440	34,660	37,390	38,680	37,750	37,290	37,930	35,210	37,920	35,250
25	30,720	31,840	31,410	34,920	39,490	38,610	39,450	37,180	37,890	35,090	37,730	35,130
26	30,560	31,870	31,400	34,980	40,110	38,530	39,990	37,290	38,200	34,970	37,510	35,010
27	30,440	31,890	31,390	35,020	39,820	38,480	39,650	37,490	39,420	34,900	37,300	34,830
28	30,330	31,920	31,450	35,110	39,580	38,440	39,370	38,680	40,860	34,930	37,490	34,690
29	30,320	31,970	31,440	35,180	39,660	38,450	39,130	38,770	42,070	43,210	37,690	34,530
30	30,240	31,990	31,420	35,230	---	38,380	39,020	38,640	42,130	45,520	37,690	34,340
31	30,120	---	31,380	35,270	---	38,290	---	38,440	---	42,400	37,690	---
MEAN	31,270	30,850	31,640	32,900	37,250	39,040	37,580	38,490	39,820	38,120	37,940	36,290
MAX	32,030	31,990	32,020	35,270	40,110	40,260	39,990	41,010	45,850	45,520	40,850	37,680
MIN	30,120	29,760	31,380	31,140	35,380	38,290	36,130	37,180	37,890	34,900	36,270	34,340
CAL YR	2003	MEAN 34,850	MAX 39,930	MIN 29,140								
WTR YR	2004	MEAN 35,920	MAX 45,850	MIN 29,760								

08049200 Lake Arlington at Arlington, TX—Continued



08049500 West Fork Trinity River at Grand Prairie, TX

LOCATION.--Lat 32°47'55", long 97°01'46", Dallas County, Hydrologic Unit 12030102, on left bank median between bridges on Roy Orr Blvd, 2.0 mi upstream from Johnson Creek, and 7.2 mi upstream from Mountain Creek.

DRAINAGE AREA.--3,065 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr. 1925 to current year. Precipitation records: Oct. 2001 to Sept. 2002.

REVISED RECORDS.--WSP 628: 1925. WSP 1922: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 405.42 ft above NGVD of 1929. Prior to Dec. 6, 1933, nonrecording gage at bridge on old channel 2,500 ft southeast of Belt Line Rd site at datum 7.56 ft higher. Dec. 6, 1933, to May 24, 1956, water-stage recorder at site 440 ft downstream from site of nonrecording gage at datum 7.56 ft higher than present datum. May 25, 1956, to Apr. 18, 1957, nonrecording gage at site 5.0 mi downstream at different datum. Apr. 19 to Aug. 13, 1957, nonrecording gage at site 3.5 mi downstream and at datum 5.00 ft higher than present datum. Aug. 14, 1957 to Sept. 30, 1982, water-stage recorder at site 3.5 mi downstream and at datum 5.00 ft higher than present datum. Prior to Apr. 5, 2003, water-stage recorder at site 3.5 mi downstream (Belt Line Rd) at present datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Apr. 1925, at least 10% of contributing drainage area has been regulated. The city of Fort Worth discharges wastewater effluent into the river upstream from this station. There are many diversions upstream from station for municipal, industrial, and other uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 30.6 ft in May 1908 (former site and datum), from information by local resident. Flood in Apr. 1922 reached a stage of 29.0 ft (former site and datum), from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	171	193	209	220	1,830	256	3,110	299	4,810	1,270	e464
2	189	174	188	201	527	816	235	2,030	4,600	2,710	823	e376
3	190	186	190	203	406	632	233	965	3,710	2,660	604	e348
4	183	175	205	238	357	1,070	233	710	1,440	2,370	480	e288
5	296	188	200	252	973	2,570	231	554	706	2,030	e473	e262
6	851	249	191	247	514	969	330	359	490	1,280	e518	e677
7	428	580	192	224	325	683	437	299	4,600	1,030	e446	e570
8	280	1,420	199	198	289	576	348	406	5,040	872	e401	e294
9	506	778	199	186	261	488	256	424	8,810	601	e392	e346
10	594	478	195	178	250	440	244	287	13,300	418	e437	e270
11	298	293	205	178	497	395	236	352	18,100	345	e437	e278
12	247	247	335	178	943	378	313	406	16,800	316	e374	e287
13	246	230	790	171	489	380	316	339	12,300	308	e401	e273
14	228	211	410	173	409	558	264	550	7,550	309	e391	e292
15	210	196	278	172	624	529	240	371	5,490	295	e329	e411
16	205	200	266	523	455	421	227	259	5,380	307	e392	e329
17	202	585	225	4,660	358	357	217	233	4,190	271	e325	e297
18	199	1,160	210	971	316	330	214	223	3,640	259	e219	e297
19	195	429	213	484	287	327	212	213	3,390	243	e1,510	e306
20	202	284	218	358	278	322	212	206	3,270	241	e2,450	e303
21	197	242	226	295	257	342	208	198	3,160	243	e754	e257
22	193	209	229	296	248	471	207	187	3,080	252	e342	e245
23	192	261	230	270	377	337	276	185	3,050	261	e422	e240
24	194	320	215	329	1,040	305	3,710	193	3,000	222	e439	e201
25	191	258	204	415	3,720	284	2,700	190	3,000	206	e518	e198
26	186	219	197	301	2,190	276	1,150	187	3,590	201	e421	165
27	187	231	214	256	922	261	687	360	4,610	196	e296	183
28	183	209	442	241	684	260	512	2,530	4,870	418	e875	198
29	178	191	427	224	1,200	368	433	576	7,890	7,310	e991	199
30	176	187	262	218	---	293	355	292	7,600	6,060	e448	201
31	178	---	226	211	---	250	---	237	---	2,390	e377	---
TOTAL	7,996	10,561	7,974	13,060	19,416	17,518	15,492	17,431	166,955	39,434	18,555	9,055
MEAN	258	352	257	421	670	565	516	562	5,565	1,272	599	302
MAX	851	1,420	790	4,660	3,720	2,570	3,710	3,110	18,100	7,310	2,450	677
MIN	176	171	188	171	220	250	207	185	299	196	219	165
AC-FT	15,860	20,950	15,820	25,900	38,510	34,750	30,730	34,570	331,200	78,220	36,800	17,960

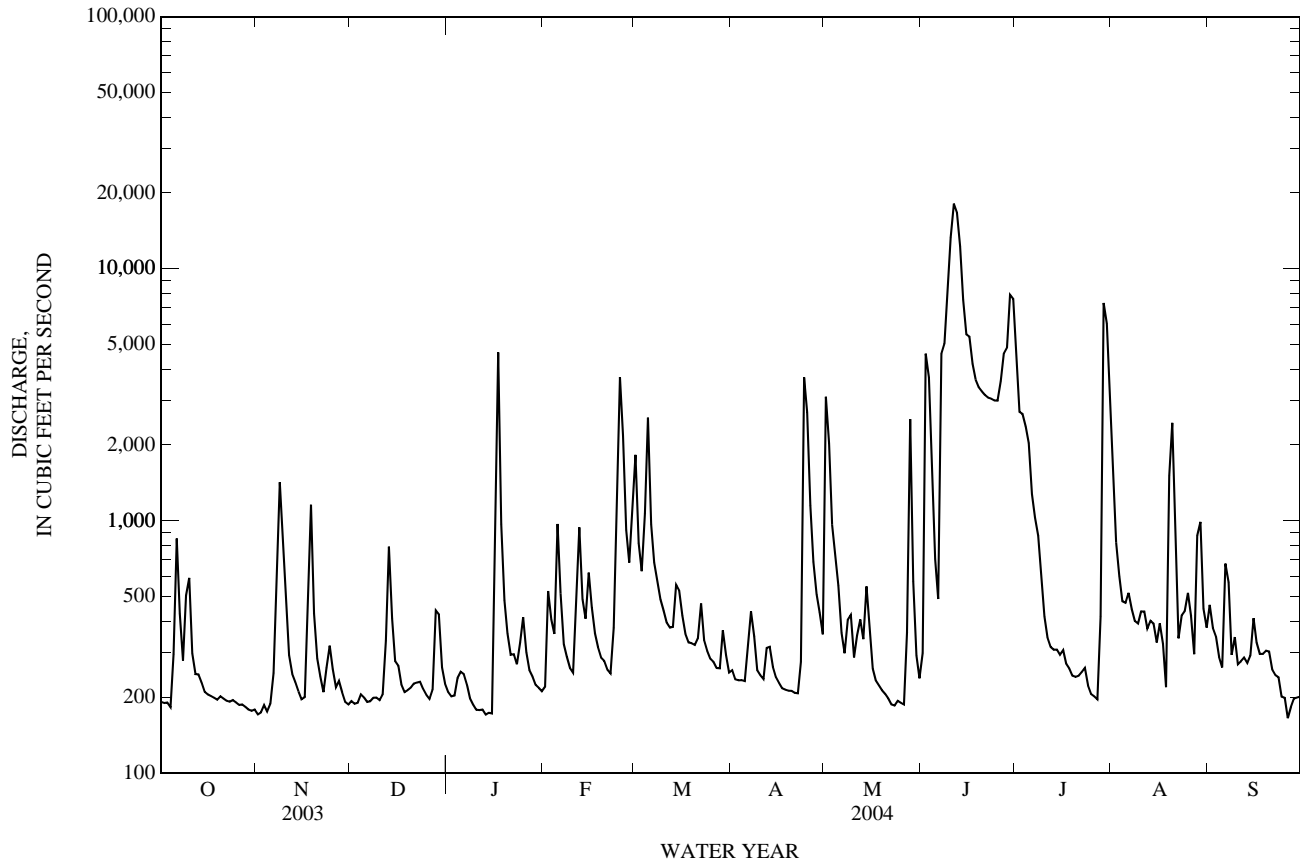
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	501	453	489	454	688	853	853	1,570	1,123	402	255	328
MAX	5,779	4,472	8,319	4,504	4,740	4,521	7,245	14,030	11,990	3,475	1,478	3,094
(WY)	(1982)	(1982)	(1992)	(1992)	(1997)	(1945)	(1942)	(1990)	(1989)	(1941)	(1950)	(1962)
MIN	13.6	18.9	25.0	21.7	26.8	22.5	42.6	48.5	17.0	21.1	12.1	15.6
(WY)	(1940)	(1940)	(1940)	(1930)	(1930)	(1940)	(1936)	(1937)	(1925)	(1939)	(1925)	(1931)

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	150,864		343,447		666	
ANNUAL MEAN	413		938		2,629	
HIGHEST ANNUAL MEAN					79.3	
LOWEST ANNUAL MEAN					48,900	
HIGHEST DAILY MEAN	4,190	Feb 22	18,100	Jun 11	48,900	May 3, 1990
LOWEST DAILY MEAN	153	Jul 28	165	Sep 26	4.5	Sep 7, 1925
ANNUAL SEVEN-DAY MINIMUM	157	Jul 27	177	Jan 9	7.3	Jun 17, 1925
MAXIMUM PEAK FLOW			18,900	Jun 11	64,400	May 3, 1990
MAXIMUM PEAK STAGE			37.26	Jun 11	37.26	Jun 11, 2004
ANNUAL RUNOFF (AC-FT)	299,200		681,200		482,800	
10 PERCENT EXCEEDS	790		2,600		1,570	
50 PERCENT EXCEEDS	293		306		191	
90 PERCENT EXCEEDS	178		193		51	

e Estimated



08049500 West Fork Trinity River at Grand Prairie, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Jan. 1964 to current year.

BIOCHEMICAL DATA: Jan. 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1966 to Sept. 1992, Aug. 1993 to Apr. 2003, June 2003 to current year.

pH: Oct. 1976 to Sept. 1992, Aug. 1993 to Apr. 2003, June 2003 to current year.

WATER TEMPERATURE: Oct. 1966 to Sept. 1992, Aug. 1993 to Apr. 2003, June 2003 to current year.

DISSOLVED OXYGEN: Oct. 1976 to Sept. 1992, Aug. 1993 to Apr. 2003, June 2003 to current year.

INSTRUMENTATION.--Water-quality monitor since Nov. 1976.

REMARKS.--Records fair. Interruptions in the record were caused by malfunctions of the instrument, except for the period from July 29 to Sept. 30, when site was out of operation. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily records of specific conductance and regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,320 microsiemens/cm, Dec. 12, 1978; minimum, 108 microsiemens/cm, May 1, 1986.

pH: Maximum, 8.6 standard units, on several days during period of record; minimum, 6.6 standard units, Jan. 6, 1979.

WATER TEMPERATURE: Maximum, 35.0°C, Aug. 8, 1982; minimum, 3.0°C, Jan. 9, 1973.

DISSOLVED OXYGEN: Maximum, 15.9 mg/L, Feb. 27, 2002; minimum, 0.0 mg/L, on several days during period of record.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 932 microsiemens/cm, May 24; minimum, 225 microsiemens/cm, June 29.

pH: Maximum, 8.1 standard units, on several days; minimum, 7.1 standard units, May 9, 10, 11.

WATER TEMPERATURE: Maximum, 32.0°C, July 15, 16; minimum, 8.9°C, Feb. 16.

DISSOLVED OXYGEN: Maximum, 12.7 mg/L, Feb. 22; minimum, 1.2 mg/L, Nov. 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarb hardness, wat flt field, mg/L as CaCO ₃ (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
MAR 25...	1120	296	10	756	8.9	99	7.3	757	19.8	230	58	78.9	8.84
JUL 13...	1345	293	10	766	7.7	102	7.9	701	30.3	190	35	66.3	6.98
30...	1130	5,990	10	753	6.0	76	7.7	288	26.4	100	16	35.2	3.37
AUG 12...	1050	E374	10	758	7.1	91	7.8	769	27.9	200	53	67.8	7.01
SEP 02...	1210	E376	10	758	8.7	113	7.8	742	28.3	200	56	68.8	6.52
14...	0925	E292	40	752	6.8	88	7.6	821	27.5	190	50	64.7	7.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)
MAR 25...	9.29	2	71.2	39	177	66.7	.6	6.8	76.0	456	.73	<.04	30.5
JUL 13...	7.70	2	56.9	38	159	57.9	.5	9.0	58.2	398	.67	<.04	37.0
30...	4.48	.7	15.9	24	86	15.7	.2	6.5	24.1	159	.63	.18	2.35
AUG 12...	9.33	2	69.7	42	146	76.8	.5	10.4	59.6	439	.90	<.04	48.3
SEP 02...	10.3	2	70.6	42	143	77.1	.6	9.8	57.1	435	.84	<.04	45.9
14...	11.4	3	81.2	46	142	89.2	.6	10.6	60.1	478	.94	<.04	64.1

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Sampler type, code (84164)
MAR 25...	6.88	6.90d	.046	.014	2.27	.74	<2.0	3053
JUL 13...	8.36	8.37d	.053	.016	1.91	.62	2.7	3060
30...	.53	.55	.049	.015	.138	.04	5.3	3060
AUG 12...	10.9	10.9d	.069	.021	2.81	.92	--	3051
SEP 02...	10.4	10.4d	.089	.027	2.99	.97d	<2.0	3053
14...	14.5	14.5d	.085	.026	4.05	1.32d	<2.0	3051

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

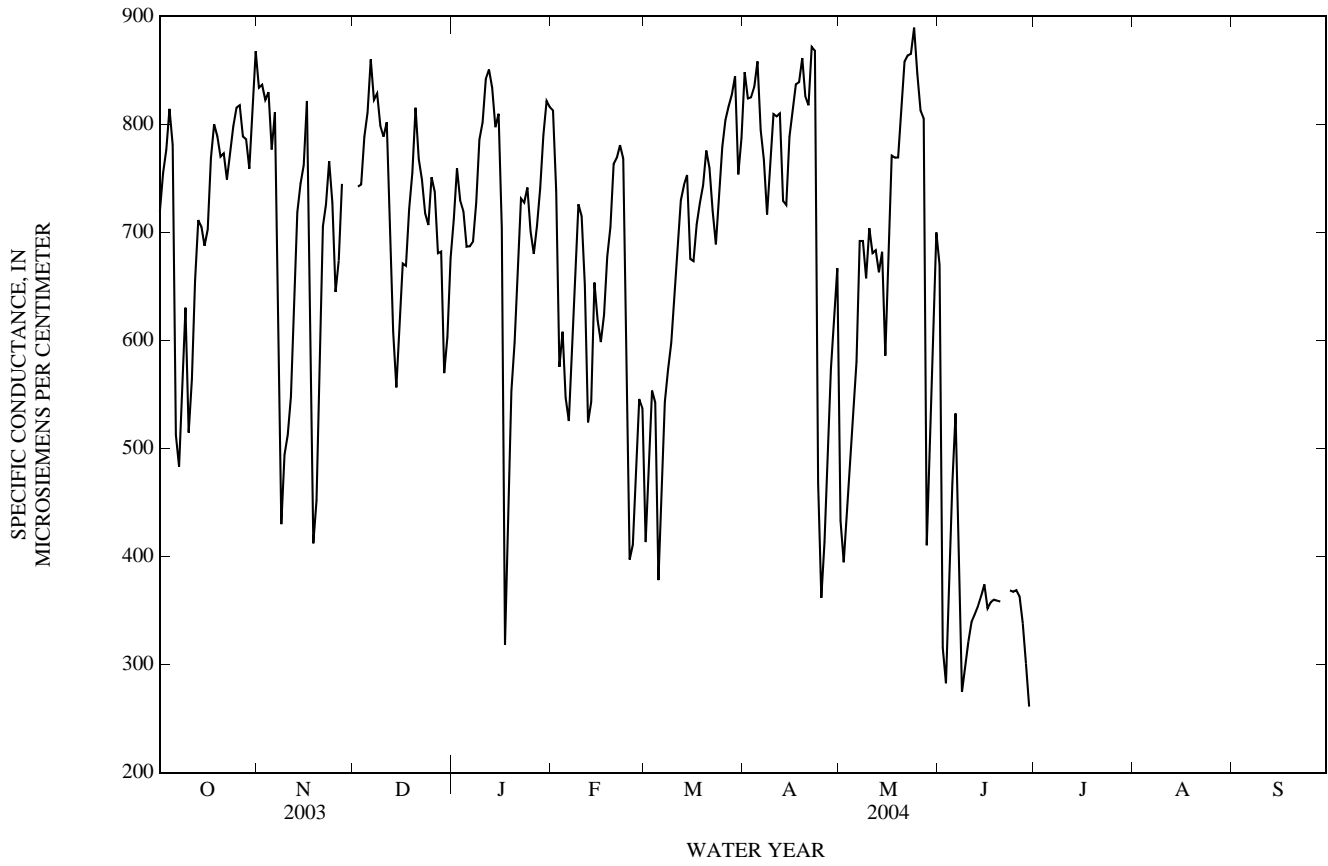
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	741	686	720	841	811	834	---	---	---	727	694	712
2	776	722	755	858	809	837	766	708	742	798	717	760
3	794	750	776	847	800	823	777	708	744	763	694	730
4	840	762	814	859	772	830	812	766	788	734	701	720
5	831	529	781	794	763	777	840	781	811	725	650	687
6	763	434	513	834	781	811	880	819	860	711	661	687
7	538	434	483	838	491	656	834	807	823	710	673	691
8	645	529	566	542	387	430	858	784	828	750	693	727
9	687	560	630	543	423	494	829	772	799	814	731	786
10	635	488	515	542	465	512	816	758	789	824	781	802
11	638	520	564	603	517	548	815	783	802	872	786	842
12	714	628	656	712	603	646	787	553	719	866	812	851
13	774	645	711	742	695	719	735	508	608	861	793	834
14	774	654	705	767	726	745	607	504	557	811	787	797
15	702	672	688	780	743	762	678	575	605	833	792	810
16	721	679	703	850	775	822	700	639	671	802	447	704
17	788	721	769	803	402	683	689	660	669	447	275	319
18	821	774	800	561	337	412	736	689	722	480	354	424
19	808	748	789	525	428	452	788	725	755	592	480	553
20	792	748	770	700	525	597	852	770	815	647	563	598
21	800	730	773	728	686	706	797	730	768	714	638	661
22	763	730	749	760	708	726	792	701	749	748	714	731
23	794	738	774	806	714	766	749	681	718	750	703	728
24	813	774	798	777	704	728	719	691	707	801	586	742
25	834	780	815	704	606	645	776	706	751	746	657	701
26	840	788	818	708	650	674	764	687	738	730	637	680
27	800	765	789	763	708	745	700	652	681	733	675	706
28	815	744	786	---	---	---	743	641	682	776	706	741
29	773	741	759	---	---	---	657	538	570	811	766	790
30	846	761	808	---	---	---	649	582	603	842	796	822
31	885	837	868	---	---	---	694	649	676	825	791	816
MONTH	885	434	724	---	---	---	---	---	---	872	275	715

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	843	676	813	446	391	414	866	833	848	681	283	433
2	800	597	738	523	434	492	839	810	824	416	346	395
3	611	546	576	593	505	554	843	813	825	465	416	450
4	633	553	608	620	295	543	853	813	835	518	451	495
5	636	458	547	493	338	378	885	832	858	573	494	540
6	563	461	525	485	412	464	844	749	795	644	510	580
7	645	561	596	566	476	543	816	735	767	747	644	692
8	723	641	661	596	526	573	738	706	717	752	386	692
9	755	711	726	636	556	598	808	730	760	724	479	658
10	756	679	715	689	613	645	829	787	810	747	669	704
11	702	598	651	719	659	684	825	773	807	747	568	681
12	612	480	524	776	691	730	846	774	810	734	572	683
13	616	478	543	780	710	744	794	697	729	702	624	663
14	688	616	654	789	697	753	766	707	725	740	605	682
15	682	581	619	698	651	675	802	766	789	634	546	586
16	630	557	598	704	644	673	826	798	812	755	634	680
17	660	594	624	728	686	707	856	821	837	800	742	771
18	700	660	678	758	705	727	860	823	839	796	738	769
19	721	689	705	764	723	744	889	822	861	786	750	769
20	790	721	763	800	744	776	849	795	826	842	774	817
21	790	745	769	795	724	760	837	799	818	881	823	858
22	835	762	781	793	684	720	895	826	872	884	833	864
23	852	619	768	716	660	689	884	849	868	888	833	865
24	712	436	568	756	716	734	857	324	468	932	841	889
25	474	337	397	810	756	779	384	333	362	870	800	847
26	448	366	411	820	786	804	439	346	414	829	800	813
27	504	448	484	845	796	817	533	436	492	873	393	806
28	573	487	546	847	794	828	602	523	574	724	327	410
29	609	446	537	888	810	845	651	566	618	532	410	479
30	---	---	---	842	730	754	713	621	667	695	532	584
31	---	---	---	844	752	787	---	---	---	724	672	700
MONTH	852	337	625	888	295	675	895	324	741	932	283	673
	JUNE			JULY			AUGUST			SEPTEMBER		
1	712	453	670	---	---	---	---	---	---	---	---	---
2	551	247	316	---	---	---	---	---	---	---	---	---
3	304	246	283	---	---	---	---	---	---	---	---	---
4	401	304	360	---	---	---	---	---	---	---	---	---
5	495	401	468	---	---	---	---	---	---	---	---	---
6	568	471	532	---	---	---	---	---	---	---	---	---
7	557	236	372	---	---	---	---	---	---	---	---	---
8	317	236	275	---	---	---	---	---	---	---	---	---
9	329	270	299	---	---	---	---	---	---	---	---	---
10	341	274	321	---	---	---	---	---	---	---	---	---
11	344	330	339	---	---	---	---	---	---	---	---	---
12	349	343	346	---	---	---	---	---	---	---	---	---
13	358	348	354	---	---	---	---	---	---	---	---	---
14	376	357	363	---	---	---	---	---	---	---	---	---
15	406	342	374	---	---	---	---	---	---	---	---	---
16	368	346	352	---	---	---	---	---	---	---	---	---
17	363	348	358	---	---	---	---	---	---	---	---	---
18	365	354	360	---	---	---	---	---	---	---	---	---
19	366	348	359	---	---	---	---	---	---	---	---	---
20	366	350	358	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	376	361	369	---	---	---	---	---	---	---	---	---
24	374	360	367	---	---	---	---	---	---	---	---	---
25	395	357	369	---	---	---	---	---	---	---	---	---
26	399	338	363	---	---	---	---	---	---	---	---	---
27	379	270	338	---	---	---	---	---	---	---	---	---
28	335	233	301	---	---	---	---	---	---	---	---	---
29	295	225	261	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049500 West Fork Trinity River at Grand Prairie, TX—Continued



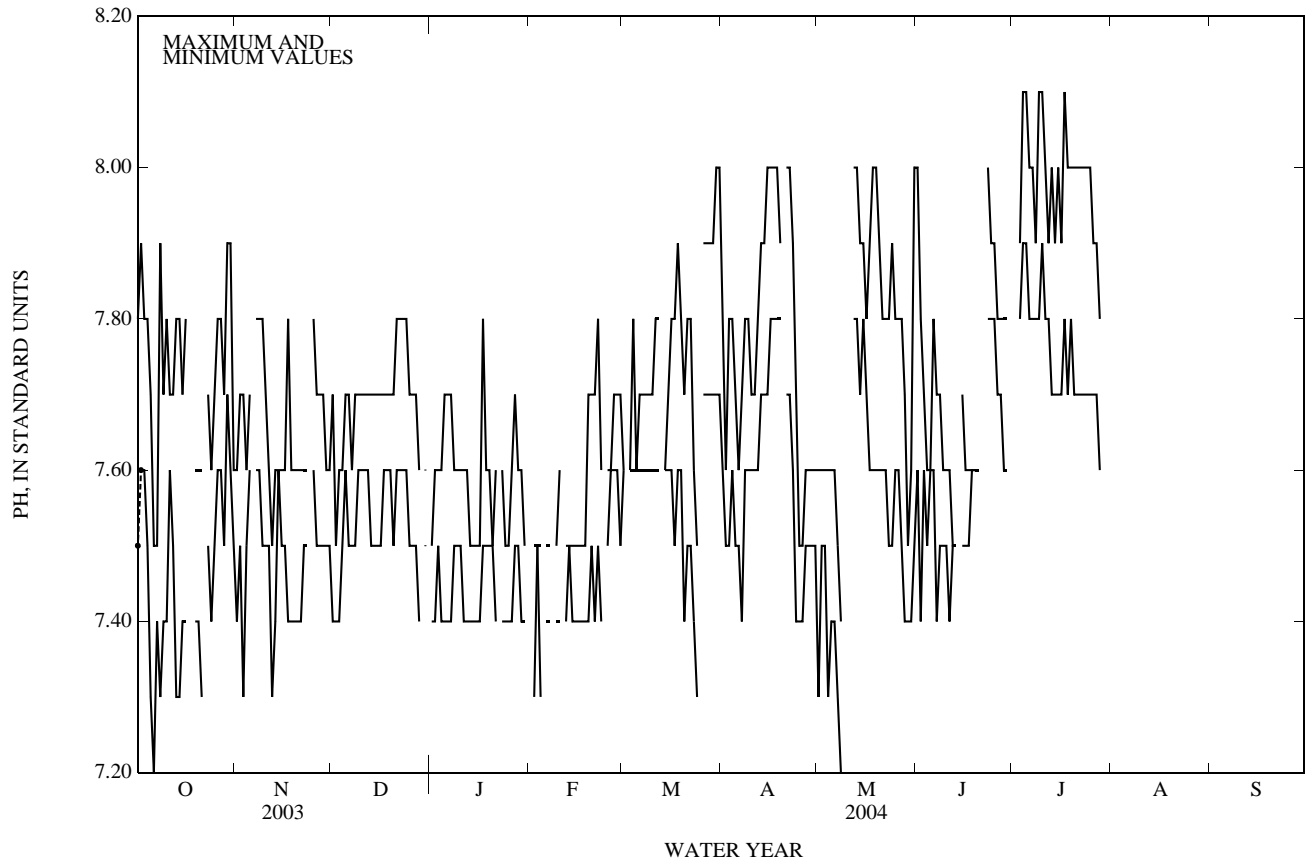
TRINITY RIVER BASIN

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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

08049500 West Fork Trinity River at Grand Prairie, TX—Continued



TRINITY RIVER BASIN

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

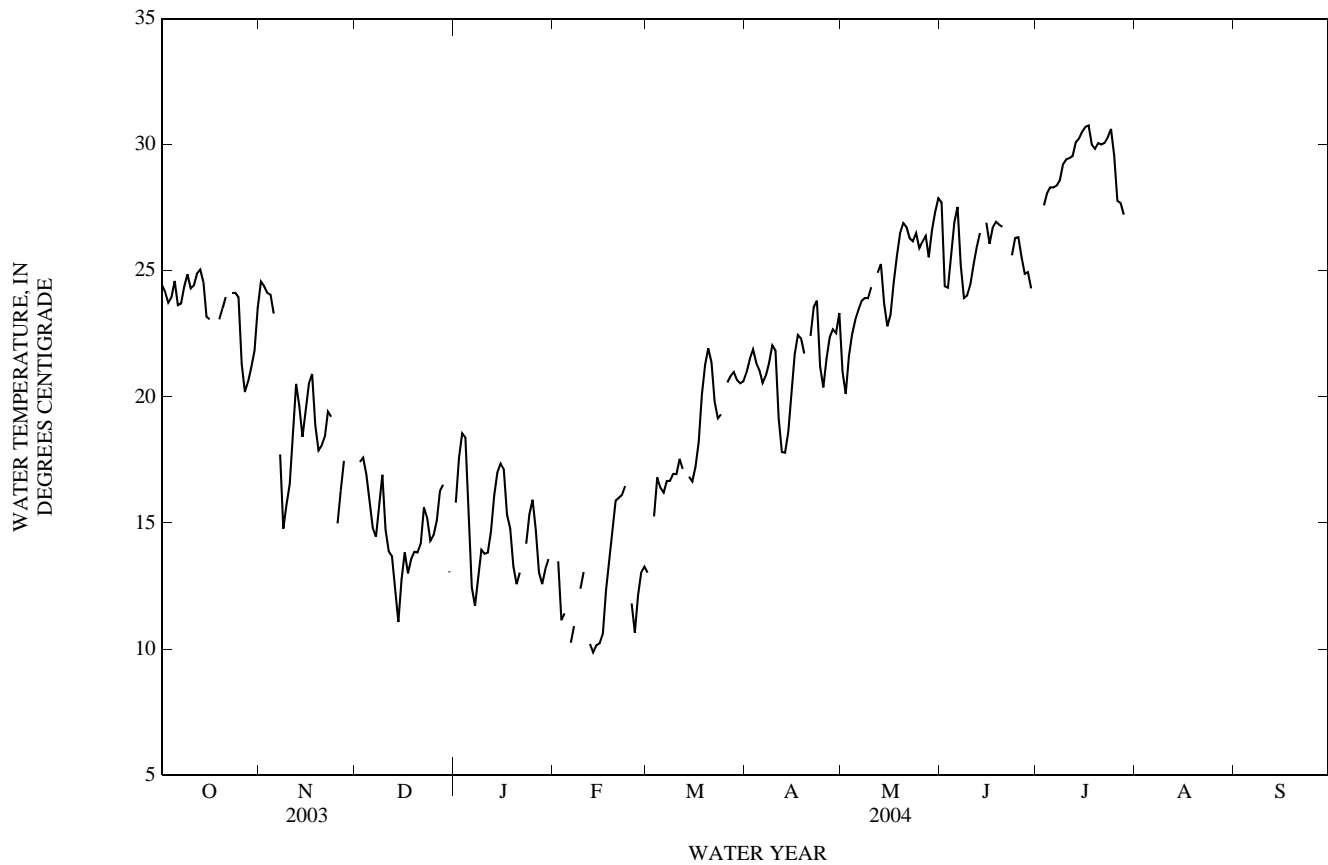
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	25.3	23.5	24.4	25.3	24.1	24.6	---	---	---	16.6	15.0	15.8
2	24.9	23.4	24.2	24.7	24.1	24.4	17.9	17.1	17.4	18.4	16.6	17.6
3	24.3	23.0	23.7	24.4	23.9	24.1	18.2	17.2	17.6	18.8	18.1	18.6
4	24.9	22.9	24.0	24.6	23.6	24.1	17.4	16.5	16.9	19.1	16.7	18.4
5	25.1	23.4	24.6	24.1	21.8	23.3	16.6	15.0	15.8	16.7	13.5	15.0
6	25.0	23.1	23.6	---	---	---	15.4	14.3	14.8	13.5	12.0	12.4
7	24.7	22.9	23.7	19.9	15.5	17.7	15.0	14.0	14.4	12.0	11.5	11.7
8	25.2	23.7	24.4	16.3	14.4	14.8	16.6	14.6	15.7	13.7	11.7	12.8
9	25.3	24.4	24.9	16.5	14.7	15.7	17.6	15.7	16.9	14.6	13.4	13.9
10	24.8	23.9	24.3	17.8	15.3	16.5	15.7	14.1	14.7	14.5	13.1	13.8
11	25.2	23.5	24.4	20.0	17.6	18.7	14.4	13.3	13.9	14.6	13.1	13.8
12	25.3	24.4	24.9	21.2	19.9	20.5	14.4	12.4	13.7	15.4	14.1	14.7
13	25.5	24.6	25.0	20.7	19.0	19.6	14.5	10.2	12.3	17.1	15.1	16.1
14	25.5	23.9	24.5	19.0	18.2	18.4	12.2	10.0	11.1	17.8	16.4	17.0
15	23.9	22.5	23.2	20.2	18.4	19.4	14.4	11.9	12.8	17.6	17.2	17.4
16	24.0	22.1	23.1	21.0	20.1	20.5	14.4	13.5	13.8	17.4	16.3	17.1
17	---	---	---	21.7	19.7	20.9	13.6	12.4	13.0	16.3	14.9	15.3
18	---	---	---	20.7	17.6	18.9	14.2	13.0	13.6	15.3	13.7	14.8
19	23.9	22.1	23.1	18.4	17.4	17.9	14.5	13.3	13.9	13.7	12.8	13.3
20	24.3	22.5	23.5	18.8	17.2	18.1	14.3	13.3	13.8	13.2	11.6	12.6
21	24.8	23.0	24.0	19.2	17.8	18.4	14.9	13.6	14.2	13.7	12.3	13.0
22	---	---	---	20.3	18.6	19.4	16.2	14.9	15.6	---	---	---
23	24.9	23.2	24.1	20.4	17.9	19.2	15.6	14.7	15.2	15.0	13.6	14.2
24	24.8	23.3	24.1	---	---	---	14.7	13.9	14.3	15.8	15.0	15.3
25	24.6	23.0	23.9	15.8	14.4	15.0	15.0	14.1	14.5	16.4	15.1	15.9
26	23.0	20.2	21.3	17.5	15.4	16.3	15.4	14.7	15.1	15.7	13.8	14.7
27	21.0	19.4	20.2	17.9	16.8	17.5	16.7	15.4	16.3	13.8	12.5	13.0
28	21.6	19.7	20.6	---	---	---	16.8	15.7	16.5	13.1	12.0	12.6
29	21.9	20.4	21.2	---	---	---	---	---	---	13.6	12.8	13.2
30	22.8	20.9	21.8	---	---	---	13.6	12.3	13.1	14.0	13.2	13.6
31	24.4	22.7	23.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.6	12.5	13.0	22.3	19.7	21.0	23.8	19.3	21.0
2	14.9	11.3	13.5	---	---	---	22.4	20.6	21.5	21.0	19.4	20.1
3	11.8	10.4	11.1	16.0	14.4	15.3	22.8	21.0	21.9	22.7	20.8	

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	29.2	26.0	27.7	---	---	---	---	---	---	---	---	---
2	26.2	22.8	24.4	27.6	---	---	---	---	---	---	---	---
3	24.7	23.7	24.3	28.0	27.1	27.6	---	---	---	---	---	---
4	26.6	24.7	25.6	28.6	27.6	28.1	---	---	---	---	---	---
5	28.1	26.0	26.9	28.5	28.1	28.3	---	---	---	---	---	---
6	28.6	26.7	27.5	28.9	27.9	28.3	---	---	---	---	---	---
7	27.8	23.1	25.2	28.8	27.9	28.4	---	---	---	---	---	---
8	24.4	23.3	23.9	29.5	27.8	28.6	---	---	---	---	---	---
9	24.4	23.4	24.0	30.3	28.4	29.2	---	---	---	---	---	---
10	25.1	23.5	24.4	30.4	28.6	29.4	---	---	---	---	---	---
11	25.7	24.9	25.2	30.3	28.6	29.5	---	---	---	---	---	---
12	26.3	25.7	25.9	31.0	28.5	29.6	---	---	---	---	---	---
13	26.8	26.3	26.5	31.2	28.5	30.1	---	---	---	---	---	---
14	---	---	---	31.7	29.0	30.2	---	---	---	---	---	---
15	27.6	26.0	26.9	32.0	29.2	30.5	---	---	---	---	---	---
16	26.5	25.7	26.1	32.0	29.6	30.7	---	---	---	---	---	---
17	27.3	26.3	26.7	31.8	29.9	30.8	---	---	---	---	---	---
18	27.5	26.5	26.9	31.0	28.9	30.0	---	---	---	---	---	---
19	27.4	26.4	26.8	31.1	28.5	29.8	---	---	---	---	---	---
20	27.5	26.1	26.7	31.2	28.7	30.1	---	---	---	---	---	---
21	---	---	---	30.9	28.9	30.0	---	---	---	---	---	---
22	---	---	---	31.1	28.9	30.1	---	---	---	---	---	---
23	26.4	25.0	25.6	31.6	29.1	30.3	---	---	---	---	---	---
24	27.1	25.7	26.3	31.8	29.5	30.6	---	---	---	---	---	---
25	26.8	25.9	26.3	31.1	28.8	29.6	---	---	---	---	---	---
26	25.9	25.1	25.5	28.8	26.9	27.8	---	---	---	---	---	---
27	25.2	24.4	24.9	28.5	26.9	27.7	---	---	---	---	---	---
28	25.5	23.8	24.9	28.2	24.6	27.2	---	---	---	---	---	---
29	24.7	23.8	24.3	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



TRINITY RIVER BASIN

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

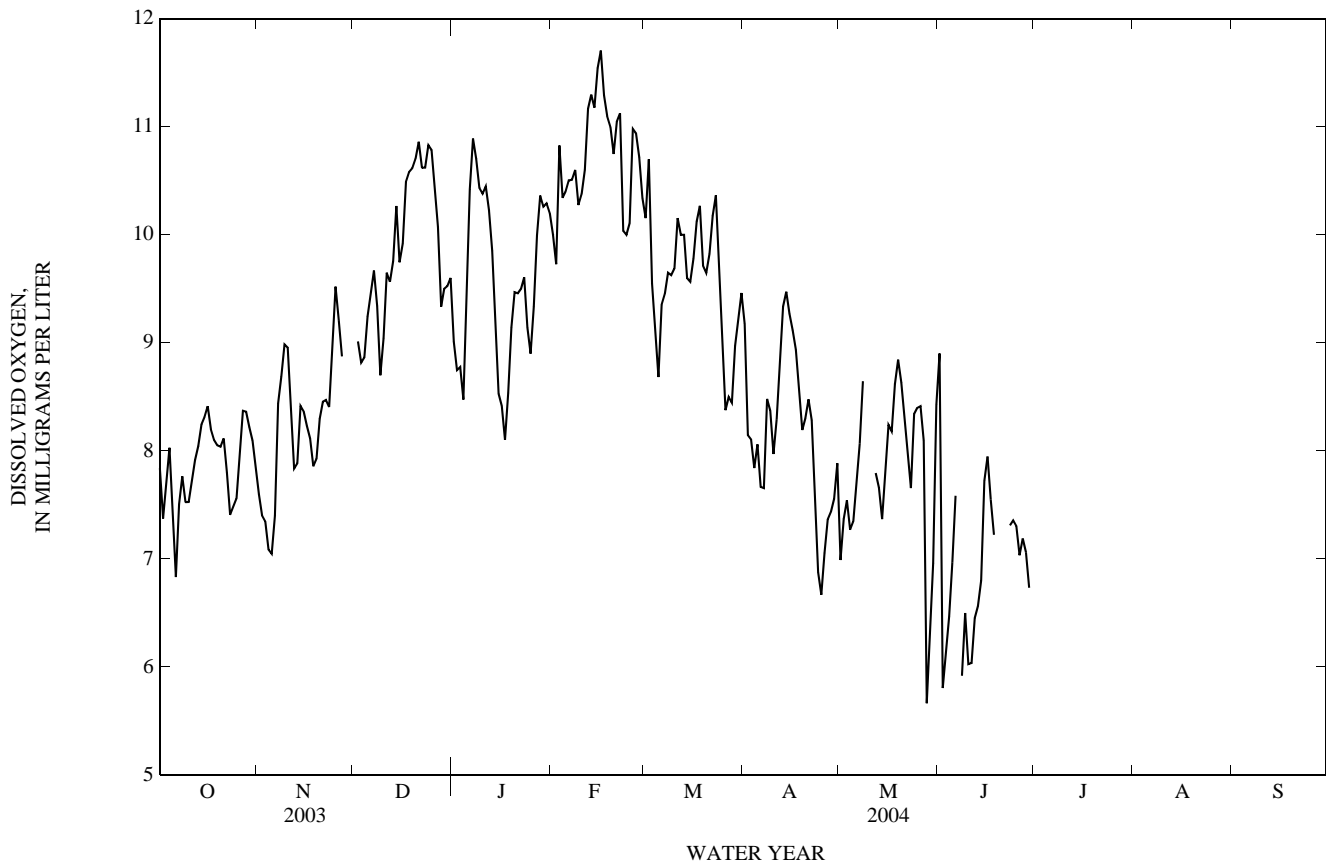
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	8.8	7.1	7.8	8.3	7.0	7.6	---	---	---	9.6	8.6	9.0
2	8.0	6.1	7.4	8.1	6.8	7.4	9.5	8.4	9.0	9.3	8.1	8.7
3	9.4	6.2	7.7	8.0	7.0	7.3	9.3	8.3	8.8	9.4	8.0	8.8
4	9.3	7.0	8.0	7.5	6.7	7.1	9.4	8.2	8.9	9.0	8.0	8.5
5	8.2	6.6	7.3	7.4	6.7	7.0	9.8	8.6	9.2	10.7	8.4	9.4
6	7.2	6.2	6.8	8.0	7.0	7.4	10.0	8.8	9.4	11.6	9.5	10.4
7	8.2	6.9	7.5	9.5	7.7	8.4	10.3	9.0	9.7	11.8	10.0	10.9
8	8.8	7.2	7.8	9.0	8.1	8.7	9.8	8.8	9.3	11.2	10.0	10.7
9	7.7	7.3	7.5	9.1	8.8	9.0	9.2	8.2	8.7	11.2	9.6	10.4
10	8.0	7.1	7.5	9.2	8.4	9.0	9.6	8.5	9.0	11.1	9.6	10.4
11	8.3	7.3	7.7	8.6	8.0	8.4	10.3	8.9	9.7	11.3	9.5	10.4
12	8.7	7.3	7.9	8.3	7.6	7.8	10.3	8.9	9.6	10.8	9.2	10.2
13	9.1	7.3	8.0	8.3	7.5	7.9	10.5	9.1	9.8	10.4	9.2	9.9
14	9.4	7.3	8.2	8.7	8.1	8.4	10.6	9.8	10.3	10.0	8.5	9.3
15	9.2	7.6	8.3	8.6	8.1	8.4	10.4	9.2	9.7	9.3	8.1	8.5
16	9.2	7.8	8.4	8.6	7.8	8.2	10.7	9.3	9.9	9.1	8.0	8.4
17	9.0	7.5	8.2	9.0	7.7	8.1	11.3	9.8	10.5	8.7	7.7	8.1
18	8.8	7.6	8.1	8.3	7.4	7.9	11.2	9.8	10.6	8.8	8.2	8.5
19	8.8	7.5	8.1	8.3	7.6	7.9	11.2	9.9	10.6	9.3	8.8	9.1
20	8.9	7.2	8.0	8.6	7.9	8.3	11.3	9.9	10.7	9.6	9.2	9.5
21	8.9	7.5	8.1	8.9	8.0	8.5	11.6	10.1	10.9	9.8	9.2	9.5
22	8.3	7.3	7.8	9.1	8.0	8.5	11.3	9.8	10.6	10.1	9.1	9.5
23	8.4	6.7	7.4	8.9	7.8	8.4	11.5	9.7	10.6	10.2	9.2	9.6
24	8.5	6.7	7.5	9.4	8.5	9.0	11.6	9.9	10.8	9.5	8.9	9.1
25	8.4	6.8	7.6	10.3	9.0	9.5	11.5	9.8	10.8	9.1	8.7	8.9
26	8.9	7.3	8.0	9.7	8.8	9.2	11.0	9.6	10.4	9.9	8.8	9.3
27	9.3	7.6	8.4	9.6	8.4	8.9	10.8	9.6	10.1	10.8	9.3	10.0
28	9.2	7.6	8.4	---	---	---	9.9	8.8	9.3	11.2	9.7	10.4
29	9.1	7.6	8.2	---	---	---	10.4	8.8	9.5	11.0	9.7	10.3
30	9.0	7.4	8.1	---	---	---	10.3	9.0	9.5	11.1	9.5	10.3
31	8.6	7.2	7.8	---	---	---	10.4	8.8	9.6	10.7	9.6	10.2
MONTH	9.4	6.1	7.9	---	---	---	---	---	---	11.8	7.7	9.6
FEBRUARY			MARCH			APRIL			MAY			
1	10.4	9.4	10.0	10.3	9.9	10.2	10.4	8.3	9.2	8.0	6.2	7.0
2	10.6	9.2	9.7	11.3	9.8	10.7	9.2	7.2	8.1	7.6	7.1	7.4
3	11.2	10.5	10.8	9.8	9.3	9.6	9.4	6.7	8.1	7.8	7.3	7.5
4	10.7	10.1	10.3	9.4	8.6	9.1	9.2	6.0	7.8	7.6	6.8	7.3
5	10.8	9.9	10.4	9.3	7.6	8.7	9.1	7.0	8.1	8.5	6.3	7.3
6	10.7	10.3	10.5	9.6	9.2	9.4	8.2	7.1	7.7	9.2	5.9	7.7
7	10.9	10.2	10.5	9.6	9.3	9.5	8.8	5.9	7.7	9.6	6.8	8.1
8	11.1	10.3	10.6	10.1	9.4	9.7	9.6	7.6	8.5	10.6	7.0	8.6
9	10.8	9.9	10.3	10.1	9.2	9.6	9.1	7.6	8.4	---	---	---
10	11.2	9.8	10.4	10.3	9.2	9.7	8.3	7.5	8.0	---	---	---
11	10.8	10.4	10.6	11.0	9.4	10.2	8.7	7.9	8.3	---	---	---
12	11.4	10.6	11.2	10.6	9.4	10.0	9.3	8.4	8.8	8.8	6.7	7.8
13	11.5	11.2	11.3	10.6	9.4	10.0	10.2	8.6	9.3	8.7	7.0	7.7
14	11.4	10.8	11.2	10.3	9.2	9.6	10.5	8.7	9.5	7.9	7.0	7.4
15	12.0	11.1	11.5	9.9	9.3	9.6	10.4	8.4	9.3	8.6	7.2	7.8
16	12.0	11.3	11.7	10.7	9.1	9.8	10.3	8.2	9.1	9.2	7.6	8.2
17	11.7	10.9	11.3	11.3	9.2	10.1	10.2	7.9	8.9	9.5	7.2	8.2
18	11.8	10.5	11.1	11.9	9.1	10.3	9.5	7.7	8.6	10.3	7.3	8.6
19	11.9	10.3	11.0	10.9	8.7	9.7	8.7	7.6	8.2	10.8	7.4	8.8
20	11.9	9.8	10.7	11.0	8.6	9.6	9.5	7.6	8.3	10.5	7.3	8.6
21	12.6	9.7	11.0	11.3	8.7	9.8	9.5	7.5	8.5	9.7	7.1	8.3
22	12.7	9.8	11.1	11.7	9.1	10.2	9.3	7.3	8.3	9.4	6.9	7.9
23	11.1	9.3	10.0	11.6	9.2	10.4	8.4	7.2	7.7	9.2	5.8	7.7
24	10.2	9.8	10.0	10.2	9.0	9.6	8.3	5.4	6.9	9.9	7.2	8.3
25	10.9	9.4	10.1	9.8	8.4	9.0	7.2	6.3	6.7	9.6	7.3	8.4
26	11.2	10.6	11.0	9.1	7.8	8.4	7.2	6.9	7.1	9.7	7.3	8.4
27	11.2	10.6	10.9	9.4	7.7	8.5	7.7	7.2	7.4	9.4	7.2	8.1
28	10.9	10.5	10.7	9.3	7.7	8.4	7.8	7.1	7.4	7.5	4.6	5.7
29	10.7	9.4	10.3	10.1	8.1	9.0	8.2	7.0	7.6	6.7	5.7	6.2
30	---	---	---	10.6	8.2	9.2	8.9	7.2	7.9	8.0	6.3	7.0
31	---	---	---	10.7	8.4	9.5	---	---	---	11.0	6.6	8.4
MONTH	12.7	9.2	10.7	11.9	7.6	9.6	10.5	5.4	8.2	---	---	---

08049500 West Fork Trinity River at Grand Prairie, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.2	7.4	8.9	---	---	---	---	---	---	---	---	---
2	8.4	4.7	5.8	---	---	---	---	---	---	---	---	---
3	6.5	5.8	6.1	---	---	---	---	---	---	---	---	---
4	6.7	6.3	6.5	---	---	---	---	---	---	---	---	---
5	7.4	6.6	7.0	---	---	---	---	---	---	---	---	---
6	8.3	7.0	7.6	---	---	---	---	---	---	---	---	---
7	7.7	---	---	---	---	---	---	---	---	---	---	---
8	6.6	5.0	5.9	---	---	---	---	---	---	---	---	---
9	6.8	6.0	6.5	---	---	---	---	---	---	---	---	---
10	6.5	5.7	6.0	---	---	---	---	---	---	---	---	---
11	6.4	5.7	6.0	---	---	---	---	---	---	---	---	---
12	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
13	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
14	7.4	6.2	6.8	---	---	---	---	---	---	---	---	---
15	8.1	7.4	7.7	---	---	---	---	---	---	---	---	---
16	8.2	7.7	7.9	---	---	---	---	---	---	---	---	---
17	8.0	7.3	7.5	---	---	---	---	---	---	---	---	---
18	7.3	6.9	7.2	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
24	7.5	7.2	7.4	---	---	---	---	---	---	---	---	---
25	7.5	7.2	7.3	---	---	---	---	---	---	---	---	---
26	7.3	6.8	7.0	---	---	---	---	---	---	---	---	---
27	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
28	7.4	6.6	7.1	---	---	---	---	---	---	---	---	---
29	6.9	6.6	6.7	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX

LOCATION.--Lat 32°53'41", long 97°04'56", Tarrant County, Hydrologic Unit 12030102, adjacent to bridge over Big Bear Creek on Euless-Grapevine Road.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 2002 to May 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 505.17 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge (2003 WY), 922 cfs, Sept. 11, gage height, 22.91 ft, maximum discharge (2004 WY), 964 cfs, June 7, gage height, 23.48 ft; minimum discharge (2003 WY), 0.0 cfs, on many days, minimum discharge (2004 WY), 0.0 cfs, on many days.

EXTREMES FOR CURRENT YEAR (CLIM).--Maximum daily precipitation (2003 WY), 3.30 in, Sept. 11, maximum daily precipitation (2004 WY), 2.55 in, Jan. 16.

PERIOD OF RECORD (CLIM).--Nov. 2002 to Apr. 2004 (discontinued).

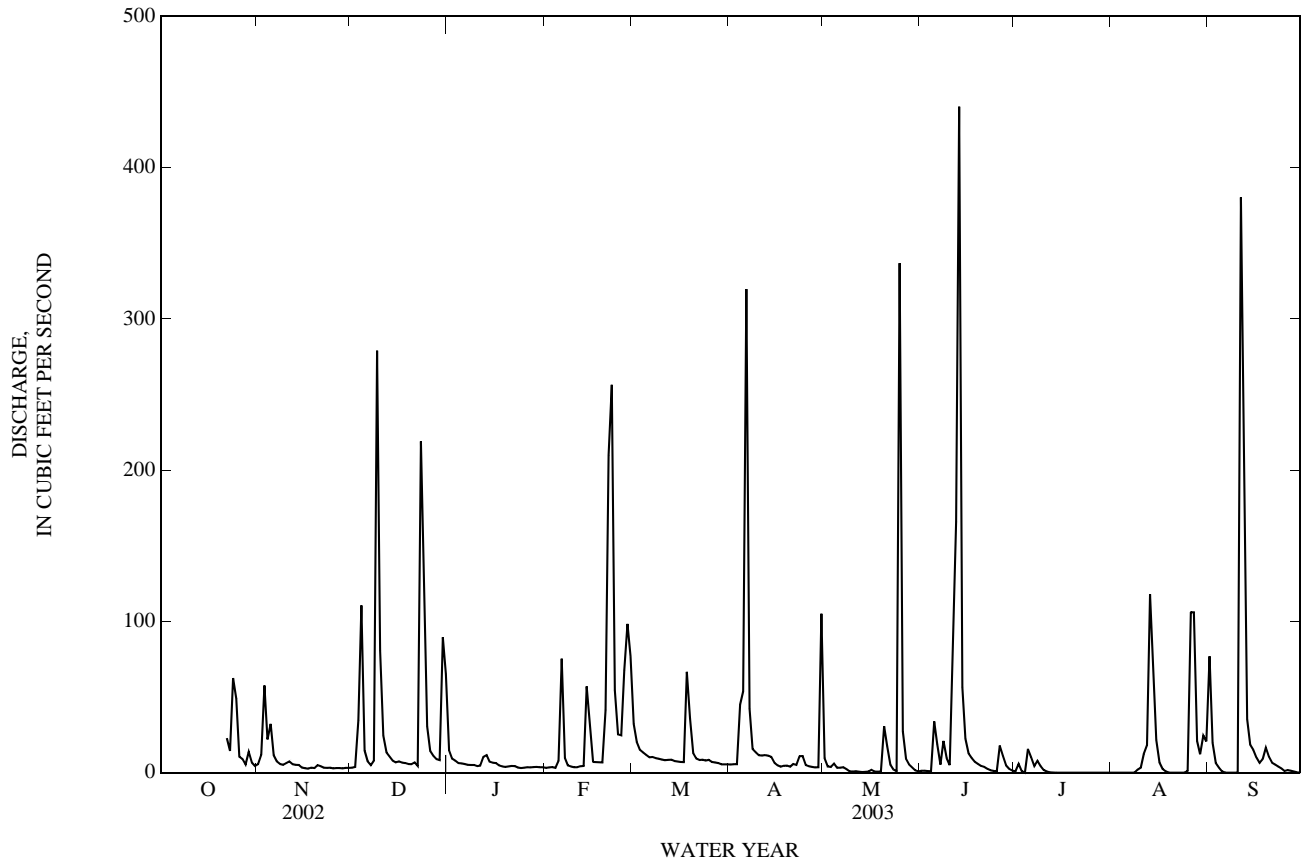
INSTRUMENTATION (CLIM).--Rain gage since Nov. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.7	3.3	15	3.1	32	5.4	9.7	1.3	0.80	0.00	77
2	---	12	3.8	9.3	3.4	20	5.6	4.1	1.3	5.8	0.00	20
3	---	58	35	7.9	3.7	15	5.6	3.8	1.1	1.1	0.00	6.4
4	---	22	111	6.4	3.1	13	45	6.1	0.96	0.00	0.00	3.2
5	---	32	15	6.1	7.7	12	54	3.2	34	16	0.00	0.85
6	---	12	7.5	5.7	75	10	320	3.3	19	10	0.00	0.00
7	---	7.4	5.0	5.2	9.8	10	42	3.6	5.3	4.4	0.00	0.00
8	---	5.7	7.9	5.1	4.7	9.6	16	2.4	21	7.9	0.00	0.00
9	---	5.2	279	5.1	4.0	9.2	13	0.87	9.6	4.3	2.0	0.00
10	---	6.4	81	4.4	3.6	8.6	12	0.78	5.0	1.8	3.3	0.00
11	---	7.4	24	4.6	3.6	8.3	11	0.90	94	0.70	12	380
12	---	5.6	13	10	e4.2	8.5	12	0.66	166	0.19	18	214
13	---	5.2	11	12	4.5	8.6	11	0.40	440	0.05	118	35
14	---	e5.1	8.0	7.2	57	7.7	10	0.56	56	0.00	68	18
15	---	3.4	6.7	6.6	e33	7.4	6.4	0.70	23	0.02	22	15
16	---	2.9	7.4	6.4	e7.1	7.1	4.8	1.9	13	0.00	6.8	10
17	---	2.6	6.6	4.8	e7.0	7.0	3.9	0.71	9.7	0.00	2.5	6.5
18	---	3.3	6.4	4.1	e6.9	67	4.5	0.68	7.2	0.00	0.81	8.9
19	---	3.1	5.7	3.8	6.8	36	4.7	0.86	5.8	0.00	0.00	17
20	---	5.0	5.6	4.2	41	13	3.9	31	4.4	0.00	0.00	10
21	---	4.2	6.7	4.5	210	9.3	5.7	18	3.8	0.00	0.00	6.6
22	23	3.3	4.5	4.3	256	8.3	5.1	5.3	2.5	0.00	0.00	5.3
23	14	3.2	219	3.4	55	8.6	11	2.1	1.6	0.00	0.00	4.1
24	63	3.3	111	3.0	25	8.0	11	0.93	1.1	0.00	0.00	2.8
25	49	2.8	31	3.3	25	8.4	5.0	337	0.82	0.00	1.1	1.0
26	11	3.1	14	3.5	68	7.1	4.2	27	18	0.00	106	1.7
27	e9.0	3.1	11	3.5	98	6.8	3.8	9.1	11	0.00	106	1.3
28	5.4	2.9	8.9	3.7	77	6.4	3.5	5.3	4.8	0.00	21	0.71
29	14	3.2	8.2	3.8	---	5.5	3.6	3.4	2.5	0.00	12	0.24
30	6.7	3.2	90	3.6	---	5.5	105	1.5	1.3	0.00	25	0.04
31	4.5	---	65	3.6	---	5.5	---	0.86	---	0.00	21	---
TOTAL	---	242.3	1,212.2	174.1	1,103.2	389.4	748.7	486.71	965.08	53.06	545.51	845.64
MEAN	---	8.08	39.1	5.62	39.4	12.6	25.0	15.7	32.2	1.71	17.6	28.2
MAX	--	58	279	15	256	67	320	337	440	16	118	380
MIN	--	2.6	3.3	3.0	3.1	5.5	3.5	0.40	0.82	0.00	0.00	0.00
AC-FT	---	481	2,400	345	2,190	772	1,490	965	1,910	105	1,080	1,680

e Estimated

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued



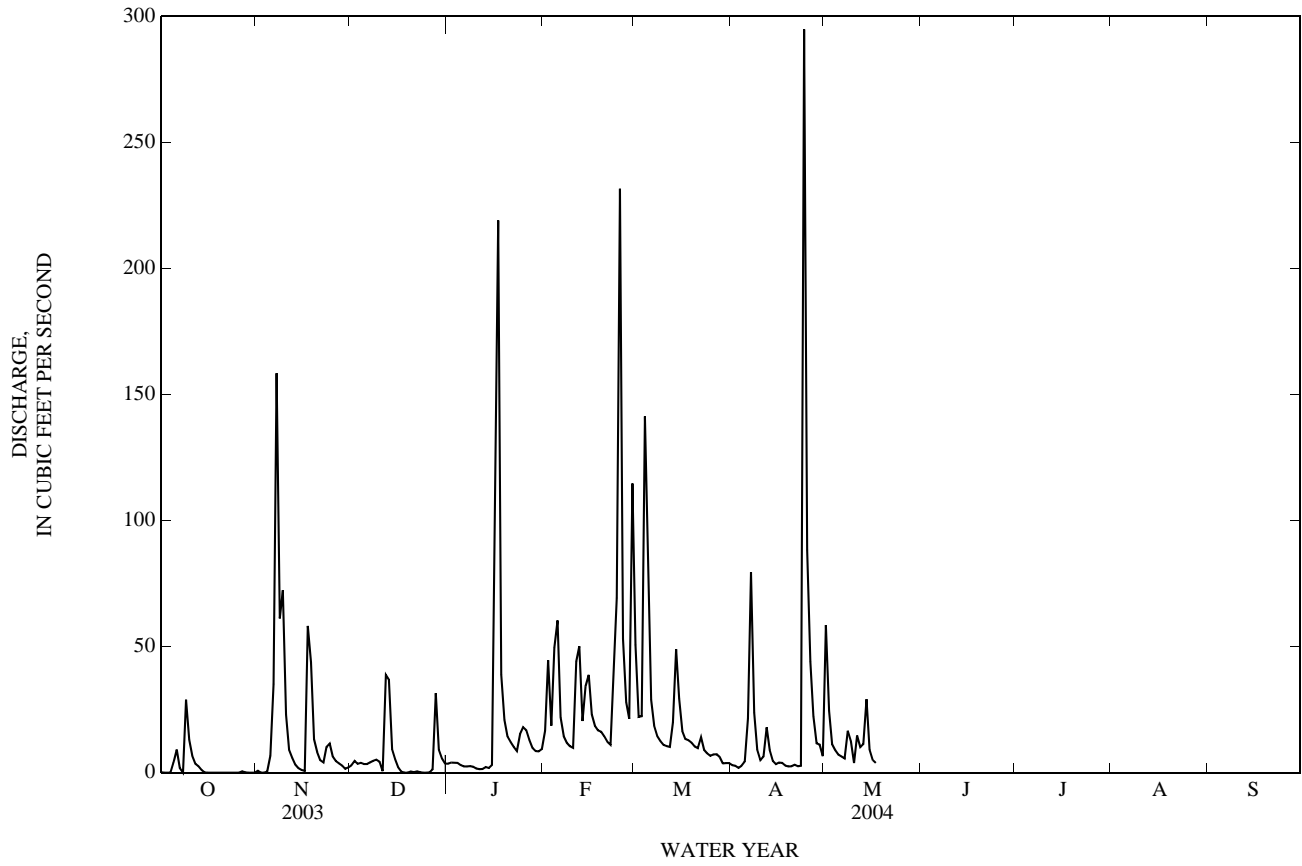
08049553 Big Bear Creek at Eules/Grapevine Road near Grapevine, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.21	0.74	2.9	3.6	17	51	3.0	59	---	---	---	---
2	0.00	0.00	4.6	4.0	45	22	2.7	25	---	---	---	---
3	0.00	0.00	3.5	3.9	19	22	1.9	11	---	---	---	---
4	0.00	0.40	3.9	3.9	50	141	2.7	8.9	---	---	---	---
5	4.1	6.7	3.5	e3.0	60	91	4.4	7.2	---	---	---	---
6	9.2	35	3.4	e2.5	22	29	22	6.4	---	---	---	---
7	1.9	158	4.0	e2.5	14	19	79	5.7	---	---	---	---
8	0.00	61	4.7	2.6	12	14	24	17	---	---	---	---
9	29	72	5.2	2.3	10	13	9.1	13	---	---	---	---
10	13	23	4.3	1.6	9.8	11	5.0	3.8	---	---	---	---
11	6.7	9.1	0.55	1.4	44	11	6.3	15	---	---	---	---
12	3.5	5.9	39	1.5	50	10	18	10	---	---	---	---
13	2.5	3.2	37	2.2	21	20	9.0	11	---	---	---	---
14	1.0	1.8	9.3	1.9	34	49	4.6	29	---	---	---	---
15	0.06	1.1	5.4	3.1	39	29	3.3	9.2	---	---	---	---
16	0.00	0.62	2.0	161	23	16	4.0	5.0	---	---	---	---
17	0.00	58	0.40	219	19	13	3.8	3.8	---	---	---	---
18	0.00	44	0.00	39	17	13	2.8	---	---	---	---	---
19	0.00	13	0.00	21	16	12	2.5	---	---	---	---	---
20	0.00	8.1	0.42	14	14	10	2.5	---	---	---	---	---
21	0.01	5.0	0.20	12	12	9.7	3.1	---	---	---	---	---
22	0.00	4.0	0.51	10	11	14	2.5	---	---	---	---	---
23	0.00	10	0.21	8.6	37	9.1	2.7	---	---	---	---	---
24	0.00	12	0.01	15	69	7.6	295	---	---	---	---	---
25	0.00	6.4	0.00	18	232	6.7	88	---	---	---	---	---
26	0.00	4.6	0.12	17	53	7.2	44	---	---	---	---	---
27	0.48	3.7	1.3	13	28	7.3	22	---	---	---	---	---
28	0.10	2.8	32	9.8	21	6.2	12	---	---	---	---	---
29	0.01	1.5	9.1	8.5	115	3.7	11	---	---	---	---	---
30	0.00	2.1	5.6	8.4	---	3.8	6.5	---	---	---	---	---
31	0.00	---	3.6	9.4	---	3.8	---	---	---	---	---	---
TOTAL	71.77	553.76	186.72	623.7	1,113.8	675.1	697.4	---	---	---	---	---
MEAN	2.32	18.5	6.02	20.1	38.4	21.8	23.2	---	---	---	---	---
MAX	29	158	39	219	232	141	295	---	---	---	---	---
MIN	0.00	0.00	0.00	1.4	9.8	3.7	1.9	---	---	---	---	---
AC-FT	142	1,100	370	1,240	2,210	1,340	1,380	---	---	---	---	---

e Estimated

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued



TRINITY RIVER BASIN

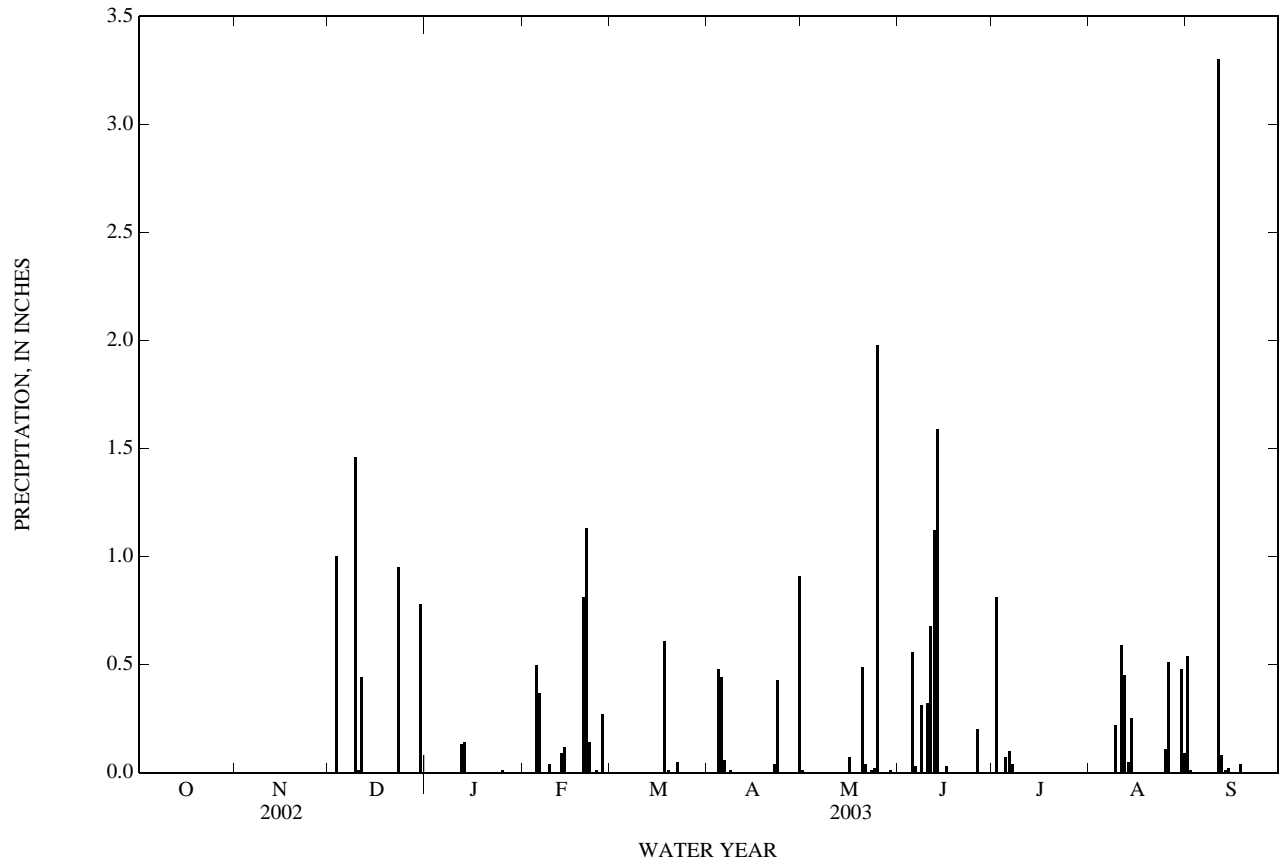
08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

 PRECIPITATION, TOTAL, INCHES
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.54
2	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.01
3	---	---	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	---	---	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00
5	---	---	0.00	0.00	0.50	0.00	0.44	0.00	0.56	0.07	0.00	0.00
6	---	---	0.00	0.00	0.37	0.00	0.06	0.00	0.03	0.10	0.00	0.00
7	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
8	---	---	0.00	0.00	0.00	0.00	0.01	0.00	0.31	0.00	0.00	0.00
9	---	---	1.46	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.22	0.00
10	---	---	0.01	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00
11	---	---	0.44	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.59	3.30
12	---	---	0.00	0.13	0.00	0.00	0.00	0.00	1.12	0.00	0.45	0.08
13	---	---	0.00	0.14	0.09	0.00	0.00	0.00	1.59	0.00	0.05	0.01
14	---	---	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.25	0.02
15	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	---	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.03	0.00	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	---	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.04
19	---	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	---	0.00	0.00	0.00	e0.81	0.00	0.00	0.49	0.00	0.00	0.00	0.00
21	---	0.00	0.00	0.00	e1.13	0.00	0.00	0.04	0.00	0.00	0.00	0.00
22	---	0.00	0.00	0.00	e0.14	0.05	0.04	0.00	0.00	0.00	0.00	0.00
23	---	0.00	0.95	0.00	0.00	0.00	0.43	0.01	0.00	0.00	0.00	0.00
24	---	0.00	0.00	0.00	e0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	---	0.00	0.00	0.01	0.00	0.00	0.00	1.98	0.00	0.00	0.11	0.00
26	---	0.00	0.00	0.00	e0.27	0.00	0.00	0.00	0.20	0.00	0.51	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	---	0.00	0.00	0.00	---	0.00	0.00	0.01	0.00	0.00	0.00	0.00
30	---	0.00	0.78	0.00	---	0.00	0.91	0.00	0.00	0.00	0.48	0.00
31	---	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.09	---
TOTAL	---	---	4.64	0.28	3.48	0.67	2.37	2.63	4.84	1.02	2.75	4.00
MEAN	---	---	0.15	0.01	0.12	0.02	0.08	0.08	0.16	0.03	0.09	0.13
MAX	---	---	1.46	0.14	1.13	0.61	0.91	1.98	1.59	0.81	0.59	3.30
MIN	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued



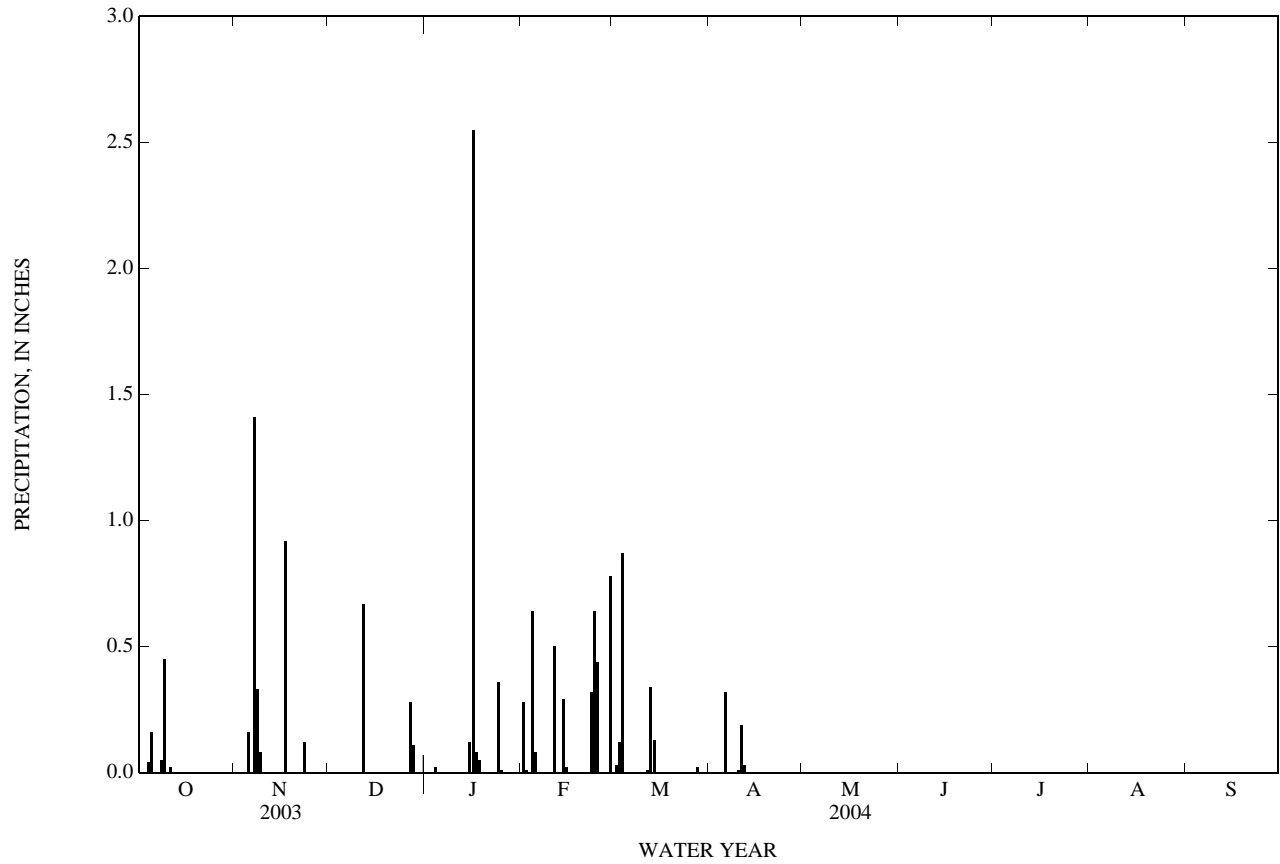
TRINITY RIVER BASIN

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

 PRECIPITATION, TOTAL, INCHES
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.28	0.00	0.00	---	---	---	---	---
2	0.00	0.00	0.00	0.00	0.01	0.03	0.00	---	---	---	---	---
3	0.00	0.00	0.00	0.00	0.00	0.12	0.00	---	---	---	---	---
4	0.04	0.00	0.00	0.02	0.64	0.87	0.00	---	---	---	---	---
5	0.16	0.16	0.00	0.00	0.08	0.00	0.00	---	---	---	---	---
6	0.00	0.00	0.00	0.00	0.00	0.00	0.32	---	---	---	---	---
7	0.00	1.41	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
8	0.05	0.33	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
9	0.45	0.08	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	---	---	---	---	---
11	0.02	0.00	0.00	0.00	0.50	0.00	0.19	---	---	---	---	---
12	0.00	0.00	0.67	0.00	0.00	0.01	0.03	---	---	---	---	---
13	0.00	0.00	0.00	0.00	0.00	0.34	0.00	---	---	---	---	---
14	0.00	0.00	0.00	0.00	0.29	0.13	0.00	---	---	---	---	---
15	0.00	0.00	0.00	0.12	0.02	0.00	0.00	---	---	---	---	---
16	0.00	0.00	0.00	2.55	0.00	0.00	---	---	---	---	---	---
17	0.00	0.92	0.00	0.08	0.00	0.00	---	---	---	---	---	---
18	0.00	0.00	0.00	0.05	0.00	0.00	---	---	---	---	---	---
19	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
20	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
21	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
22	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
23	0.00	0.12	0.00	0.00	0.32	0.00	---	---	---	---	---	---
24	0.00	0.00	0.00	0.36	0.64	0.00	---	---	---	---	---	---
25	0.00	0.00	0.00	0.01	0.44	0.00	---	---	---	---	---	---
26	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
27	0.00	0.00	0.28	0.00	0.00	0.00	---	---	---	---	---	---
28	0.00	0.00	0.11	0.00	0.00	0.02	---	---	---	---	---	---
29	0.00	0.00	0.00	0.00	0.78	0.00	---	---	---	---	---	---
30	0.00	0.00	0.00	0.00	---	0.00	---	---	---	---	---	---
31	0.00	---	0.00	0.00	---	0.00	---	---	---	---	---	---
TOTAL	0.72	3.02	1.06	3.19	4.00	1.52	---	---	---	---	---	---
MEAN	0.02	0.10	0.03	0.10	0.14	0.05	---	---	---	---	---	---
MAX	0.45	1.41	0.67	2.55	0.78	0.87	---	---	---	---	---	---
MIN	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued



08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical data: Nov. 2002 to Apr. 2004 (discontinued).

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2002 to Apr. 2004 (discontinued). Water temperature: Oct. 2002 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 2002.

REMARKS.--Records good. Interruption in the record was caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum (2003 WY), 35.52 °C, Aug. 6, maximum (2004 WY), 22.67 °C, Mar. 20; minimum (2003 WY), 2.53 °C, Feb. 25, minimum (2004 WY), 4.63 °C, Feb. 14.

DISSOLVED OXYGEN: Maximum (2003 WY), 16.15 mg/L, Jan. 17, Mar. 11, maximum (2004 WY), 15.64 mg/L, Mar. 18; minimum (2003 WY), 2.17 mg/L, Aug. 26, minimum (2004 WY), 2.95 mg/L, Nov. 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
NOV 25-					
DEC 02	0933	--	S20	--	--
DEC 02-05	1538	--	51	--	--
DEC 05-11	1403	--	48	--	--
DEC 11-23	1155	--	39	--	--
DEC 23-31	1716	--	43	--	--
30...	1500	--	86	--	--
30...	1527	--	66	<18.0	<18.0
30...	1554	--	61	--	--
30...	1621	--	59	<18.0	<18.0
30...	1650	--	43	--	--
30...	1718	--	36	<18.0	<18.0
30...	1843	--	42	--	--
30...	2019	--	33	--	--
30...	2250	5.1	29	<18.0	<18.0
31...	0248	4.7	37	<18.0	<18.0
DEC 31					
2002-					
JAN 12					
2003	1054	--	S24	--	--
12...	1314	--	S18	<18.0	<18.0
12...	1415	--	S17	--	--
12...	1513	--	S20	--	--
12...	1615	--	S24	<18.0	<18.0
12...	1705	2.4	S23	--	--
JAN 12-21	1746	--	S17	--	--
12...	1913	--	S20	<18.0	<18.0
12...	2156	--	S18	--	--
13...	0047	--	S24	<18.0	<18.0
13...	0220	--	S21	--	--
13...	0401	2.3	S14	<18.0	<18.0
JAN 21-28	1041	--	S12	--	--
JAN 28-					
FEB 04	0922	--	S11	--	--
FEB 04-11	0747	--	S20	--	--
FEB 12-14	1259	--	S23	--	--
FEB 21-24	1239	--	S23	--	--
FEB 24-					
MAR 05	0919	--	38	--	--

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
FEB					
26...	1637	--	80	--	--
26...	2217	--	28	<18.0	<18.0
27...	0024	--	S26	--	--
27...	0354	3.1	S26	<18.0	<18.0
27...	0633	--	S26	--	--
27...	1240	2.7	S26	<18.0	<18.0
27...	2359	2.7	S22	<18.0	<18.0
28...	1050	3.0	S27	<18.0	<18.0
28...	1830	--	29	--	--
MAR					
01...	0351	--	S19	--	--
MAR					
05-11	1106	--	S17	--	--
MAR					
11-21	1107	--	44	--	--
MAR 21-					
APR 01	0939	--	S22	--	--
APR					
01-06	1420	--	69	--	--
APR					
08-17	1547	--	29	--	--
APR					
17-25	1218	--	39	--	--
AUG					
26...	1751	7.0	44	<18.0	<18.0
26...	1825	--	31	<18.0	<18.0
26...	2031	5.9	33	<18.0	<18.0
27...	0155	--	31	<18.0	<18.0
27...	1006	--	29	<18.0	<18.0

Remark codes used in this table:

< -- Less than

S -- Most probable value

TRINITY RIVER BASIN

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
OCT					
20-27	1355	--	S12	--	--
OCT 27-					
NOV 03	1242	--	S21	--	--
NOV					
03-10	1201	--	42	--	--
NOV					
10-13	0940	--	S27	--	--
DEC					
01-08	1306	--	S25	--	--
DEC					
08-12	1402	--	S21	--	--
DEC					
16-22	0710	--	28	--	--
DEC					
22-30	1200	--	S23	--	--
DEC 30					
2003-					
JAN 05					
2004					
JAN	1317	--	S22	--	--
05-12	1135	--	S15	--	--
JAN					
12-20	1103	--	49	--	--
JAN					
20-24	1024	--	S22	--	--
JAN 29-					
FEB 02	1348	--	S19	--	--
FEB					
02-09	1307	--	57	--	--
FEB					
09-13	1322	--	32	--	--
FEB					
13-17	1446	--	34	--	--
14...	0859	--	29	<18.0	<18.0
14...	1202	--	32	--	--
14...	1440	--	S21	--	--
14...	1507	--	33	--	--
14...	1815	--	28	--	--
14...	2336	--	S26	<18.0	<18.0
15...	0828	--	30	--	--
15...	1609	2.2	32	<18.0	<18.0
16...	0016	2.0	31	<18.0	<18.0
16...	0542	--	28	--	--
16...	0945	2.1	34	<18.0	<18.0
FEB					
17-23	1102	--	S21	--	--
FEB					
23-27	1617	--	29	--	--
FEB 27-					
MAR 05	1239	--	50	--	--
MAR					
05-15	1407	--	34	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Time	COD, low level, water, unfltrd mg/L (00335)
MAR		
15-22	1140	31
MAR		
22-29	1455	S26
MAR 29-		
APR 05	1248	32
APR		
05-15	1347	36

Remark codes used in this table:

< -- Less than

S -- Most probable value

08049553 Big Bear Creek at Eules/Grapevine Road near Grapevine, TX—Continued

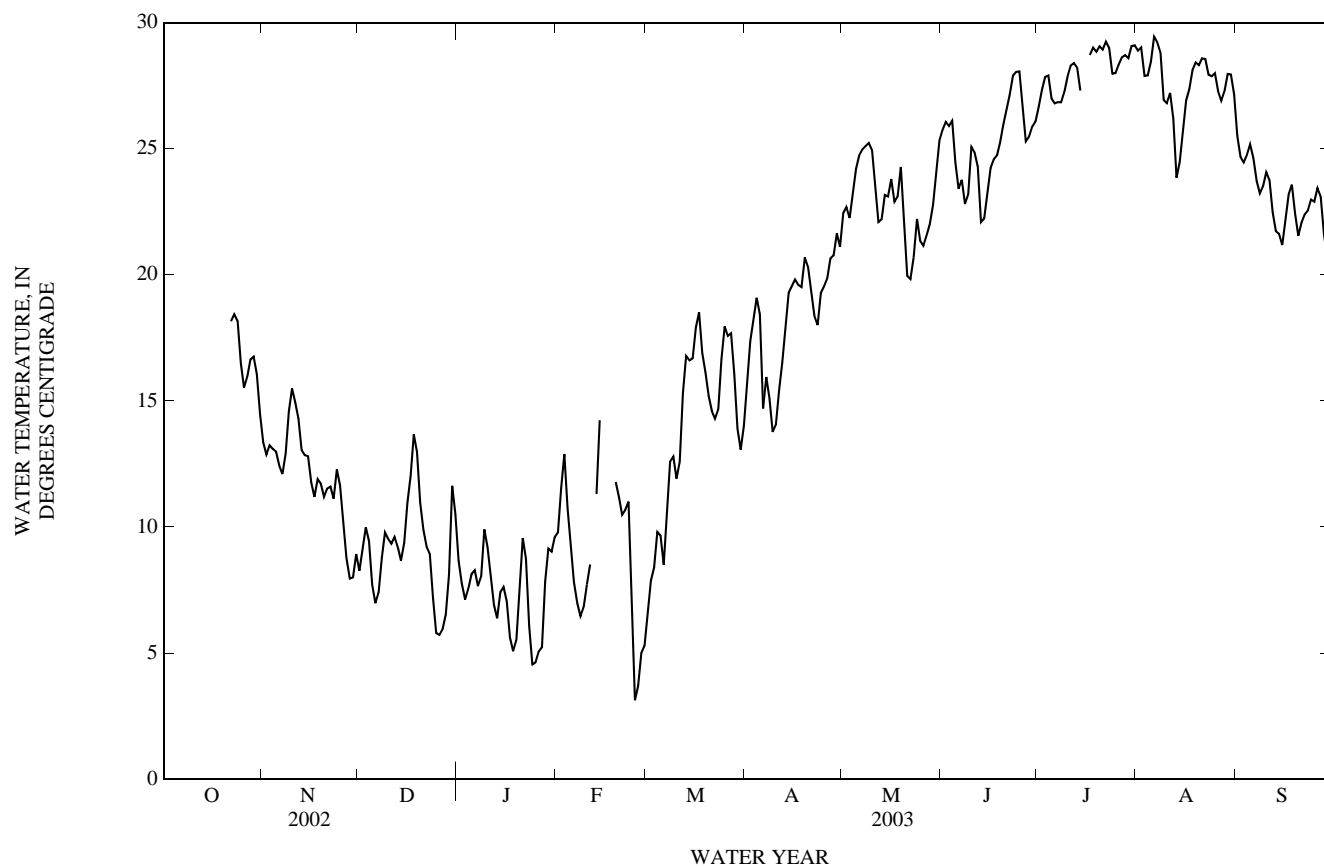
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	13.82	12.99	13.35	8.71	7.57	8.26	9.46	7.97	8.65
2	---	---	---	12.99	12.69	12.87	10.04	8.09	9.13	8.24	7.19	7.75
3	---	---	---	13.58	12.83	13.24	10.75	9.50	9.99	7.83	6.39	7.12
4	---	---	---	13.50	12.88	13.09	10.17	8.39	9.44	8.64	6.47	7.55
5	---	---	---	13.29	12.66	12.99	8.39	7.08	7.70	9.06	7.25	8.14
6	---	---	---	13.02	12.02	12.44	7.55	6.38	6.97	9.06	7.59	8.28
7	---	---	---	12.73	11.30	12.10	8.27	6.53	7.39	8.23	6.89	7.65
8	---	---	---	13.60	12.08	12.90	10.27	7.88	8.76	9.17	6.86	8.03
9	---	---	---	15.34	13.57	14.57	10.64	9.50	9.78	11.00	8.89	9.90
10	---	---	---	16.12	15.03	15.49	9.70	9.40	9.53	10.03	8.33	9.19
11	---	---	---	15.39	14.41	14.94	9.60	9.10	9.34	8.33	7.74	7.97
12	---	---	---	14.87	13.68	14.29	9.90	9.40	9.60	7.74	6.00	6.91
13	---	---	---	13.68	12.18	13.05	9.60	8.70	9.20	7.09	5.82	6.38
14	---	---	---	13.78	12.39	12.84	9.40	7.90	8.67	8.46	6.57	7.42
15	---	---	---	13.51	12.26	12.81	10.40	8.20	9.37	8.00	7.23	7.62
16	---	---	---	12.43	11.18	11.77	11.90	10.20	10.95	7.65	5.99	7.05
17	---	---	---	11.84	10.27	11.19	13.30	10.70	12.01	6.17	5.04	5.62
18	---	---	---	12.50	11.26	11.89	14.20	13.30	13.67	5.91	4.09	5.07
19	---	---	---	12.40	11.01	11.72	13.40	11.80	12.97	6.56	4.41	5.51
20	---	---	---	11.87	10.33	11.19	11.80	10.00	10.96	9.33	6.13	7.75
21	---	---	---	12.26	10.63	11.52	10.60	9.10	9.89	10.11	9.08	9.55
22	18.55	17.89	18.16	12.27	11.01	11.60	9.60	8.56	9.22	9.34	7.58	8.73
23	18.54	18.26	18.43	11.71	10.11	11.12	9.60	7.80	8.93	7.58	4.97	6.08
24	18.39	17.59	18.17	13.25	11.21	12.28	7.80	6.30	7.19	5.03	3.82	4.55
25	17.59	15.91	16.49	13.00	10.70	11.65	6.30	5.20	5.79	4.85	4.38	4.63
26	15.91	15.18	15.52	10.70	9.50	10.19	6.00	5.30	5.72	5.52	4.73	5.06
27	16.30	15.48	15.94	9.50	8.20	8.77	6.60	5.40	5.94	6.42	4.05	5.22
28	17.29	16.26	16.64	8.68	7.17	7.95	7.50	5.60	6.53	9.39	6.12	7.83
29	17.12	16.39	16.75	8.87	7.04	7.99	9.80	6.80	8.10	9.38	8.96	9.14
30	16.39	15.24	16.06	9.70	8.38	8.92	14.00	9.80	11.63	9.47	8.74	9.02
31	15.24	13.82	14.48	---	---	---	12.10	9.46	10.51	10.58	8.74	9.60
MONTH	---	---	---	16.12	7.04	12.02	14.20	5.20	9.13	11.00	3.82	7.39
FEBRUARY			MARCH			APRIL			MAY			
1	10.90	8.46	9.78	7.31	5.93	6.53	17.73	13.76	15.70	23.45	21.54	22.44
2	13.06	10.05	11.54	8.53	7.23	7.87	19.36	15.47	17.37	23.11	22.21	22.69
3	13.60	11.63	12.89	8.95	7.86	8.39	19.06	17.46	18.20	23.45	21.14	22.26
4	11.63	10.01	10.75	11.08	8.75	9.80	20.75	17.89	19.09	24.39	22.25	23.18
5	10.04	7.99	9.14	10.70	8.42	9.66	19.54	14.73	18.43	25.46	23.42	24.21
6	8.13	7.23	7.80	9.85	7.34	8.50	16.20	13.31	14.69	25.95	23.81	24.74
7	7.68	6.37	6.96	12.53	8.38	10.32	16.94	15.03	15.95	26.33	23.62	24.97
8	6.79	6.22	6.46	13.82	11.44	12.60	16.67	13.82	15.09	25.79	24.43	25.11
9	7.62	6.33	6.82	14.18	11.72	12.79	15.03	12.84	13.77	26.01	24.44	25.23
10	9.02	6.63	7.72	12.67	10.98	11.92	16.04	12.33	14.06	25.46	24.43	24.95
11	10.05	7.37	8.51	14.56	10.68	12.58	17.38	13.68	15.41	25.10	22.49	23.41
12	10.89	---	---	17.15	13.88	15.31	18.41	14.77	16.53	23.18	20.61	22.09
13	12.45	10.47	11.30	17.53	16.21	16.78	19.92	16.35	18.04	23.14	21.26	22.20
14	15.68	12.45	14.23	18.33	15.09	16.60	20.78	17.91	19.28	24.09	22.21	23.17
15	---	---	---	18.72	14.74	16.69	20.05	19.12	19.54	23.47	22.65	23.11
16	---	---	---	19.81	16.39	17.91	20.99	18.67	19.81	25.21	22.81	23.80
17	---	---	---	19.88	17.28	18.51	20.68	18.33	19.60	23.81	21.98	22.90
18	---	---	---	18.56	15.52	16.89	20.46	18.60	19.52	24.80	21.23	23.11
19	11.98	11.57	11.78	16.84	15.09	16.12	22.08	19.49	20.69	26.08	22.23	24.28
20	11.57	10.83	11.19	16.45	14.22	15.20	21.48	19.35	20.31	25.55	19.93	22.23
21	10.89	9.65	10.48	16.04	13.63	14.60	20.74	17.93	19.39	21.07	19.60	19.96
22	11.37	10.08	10.68	14.96	13.64	14.29	19.17	17.87	18.36	20.56	19.34	19.83
23	11.73	10.36	11.01	16.78	12.77	14.66	18.32	17.74	18.01	22.35	19.20	20.69
24	10.41	3.84	7.64	19.00	14.64	16.67	20.81	18.11	19.27	23.85	20.90	22.22
25	3.84	2.53	3.13	19.63	16.88	17.95	20.95	18.16	19.54	23.21	20.58	21.35
26	4.47	3.33	3.69	19.30	16.02	17.58	21.41	18.33	19.86	21.64	20.54	21.15
27	5.57	4.47	4.99	19.46	16.12	17.68	22.20	19.07	20.65	22.40	20.72	21.56
28	5.98	4.73	5.28	18.00	14.48	16.07	21.49	20.23	20.77	23.37	21.01	22.01
29	---	---	---	14.74	12.67	13.89	23.13	20.26	21.64	24.86	21.07	22.75
30	---	---	---	14.79	11.32	13.07	22.45	19.59	21.11	25.98	22.15	23.97
31	---	---	---	16.11	11.98	14.00	---	---	---	27.04	23.69	25.31
MONTH	---	---	---	19.88	5.93	13.92	23.13	12.33	18.32	27.04	19.20	22.93

08049553 Big Bear Creek at Eules/Grapevine Road near Grapevine, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	27.35	24.14	25.74	28.31	25.12	26.67	33.24	26.69	28.90	26.48	25.18	25.51
2	27.16	24.97	26.06	29.14	25.78	27.34	33.54	26.62	29.02	25.18	24.33	24.67
3	27.42	24.29	25.90	30.15	26.29	27.85	29.59	26.65	27.89	25.14	23.80	24.46
4	27.35	24.82	26.11	31.63	25.39	27.91	32.26	25.67	27.91	25.66	24.11	24.75
5	26.15	23.33	24.44	30.31	25.16	26.99	32.60	25.85	28.46	26.20	24.11	25.17
6	24.04	22.93	23.41	27.17	26.26	26.80	35.32	26.68	29.44	25.79	23.41	24.64
7	25.30	22.46	23.76	28.35	25.82	26.85	34.59	26.19	29.23	25.04	22.48	23.72
8	23.47	21.96	22.81	28.07	25.96	26.84	32.58	26.81	28.81	24.44	21.94	23.22
9	24.26	22.02	23.18	28.66	26.06	27.25	28.20	26.25	26.93	24.86	22.12	23.52
10	26.36	24.06	25.07	29.39	26.44	27.86	28.15	25.49	26.80	25.35	23.08	24.07
11	25.81	23.74	24.85	29.85	26.60	28.30	29.00	26.11	27.21	24.55	22.35	23.77
12	24.83	22.57	24.28	29.92	26.74	28.40	27.02	25.22	26.19	22.86	21.89	22.48
13	23.78	20.88	22.09	30.55	26.96	28.21	25.61	22.73	23.85	22.34	21.09	21.73
14	23.38	21.35	22.24	30.26	24.84	27.30	25.83	23.57	24.48	22.32	21.04	21.62
15	24.17	22.36	23.29	---	---	---	26.44	25.05	25.77	22.00	20.41	21.18
16	25.04	23.53	24.24	---	---	---	28.23	25.93	26.91	23.35	21.32	22.25
17	25.49	24.15	24.58	31.13	27.23	28.72	28.83	25.96	27.37	24.30	22.33	23.19
18	26.23	23.60	24.74	31.87	27.31	29.01	29.49	26.67	28.12	24.11	23.08	23.57
19	27.01	23.83	25.27	31.11	27.40	28.85	29.68	27.13	28.43	23.50	21.59	22.43
20	27.38	24.69	25.97	32.68	27.36	29.07	29.50	27.40	28.31	22.35	20.65	21.55
21	27.98	25.46	26.57	32.16	27.33	28.93	30.82	27.28	28.58	22.96	21.37	22.06
22	28.63	25.86	27.16	33.61	27.14	29.25	31.12	27.35	28.56	23.31	21.47	22.39
23	29.41	26.58	27.90	32.97	27.34	29.00	30.01	26.73	27.94	23.34	21.72	22.54
24	29.12	27.04	28.05	31.28	26.15	27.98	29.85	26.46	27.88	23.66	22.29	22.98
25	29.06	26.99	28.07	29.43	26.95	28.01	30.78	26.31	28.00	23.53	21.98	22.90
26	28.28	25.64	26.70	30.46	27.12	28.34	29.25	26.17	27.28	24.08	22.71	23.44
27	26.19	24.40	25.29	31.47	27.25	28.63	27.37	26.35	26.90	23.82	22.40	23.11
28	27.34	23.85	25.49	32.20	27.10	28.72	28.18	26.49	27.28	22.75	20.73	21.65
29	27.37	24.38	25.89	31.00	27.24	28.60	29.18	26.97	27.96	21.39	19.81	20.65
30	27.48	24.65	26.09	33.17	27.18	29.08	28.66	27.31	27.95	20.83	19.25	20.07
31	---	---	---	33.26	26.77	29.10	28.05	26.48	27.16	---	---	---
MONTH	29.41	20.88	25.17	---	---	---	35.32	22.73	27.60	26.48	19.25	22.98



08049553 Big Bear Creek at Eules/Grapevine Road near Grapevine, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

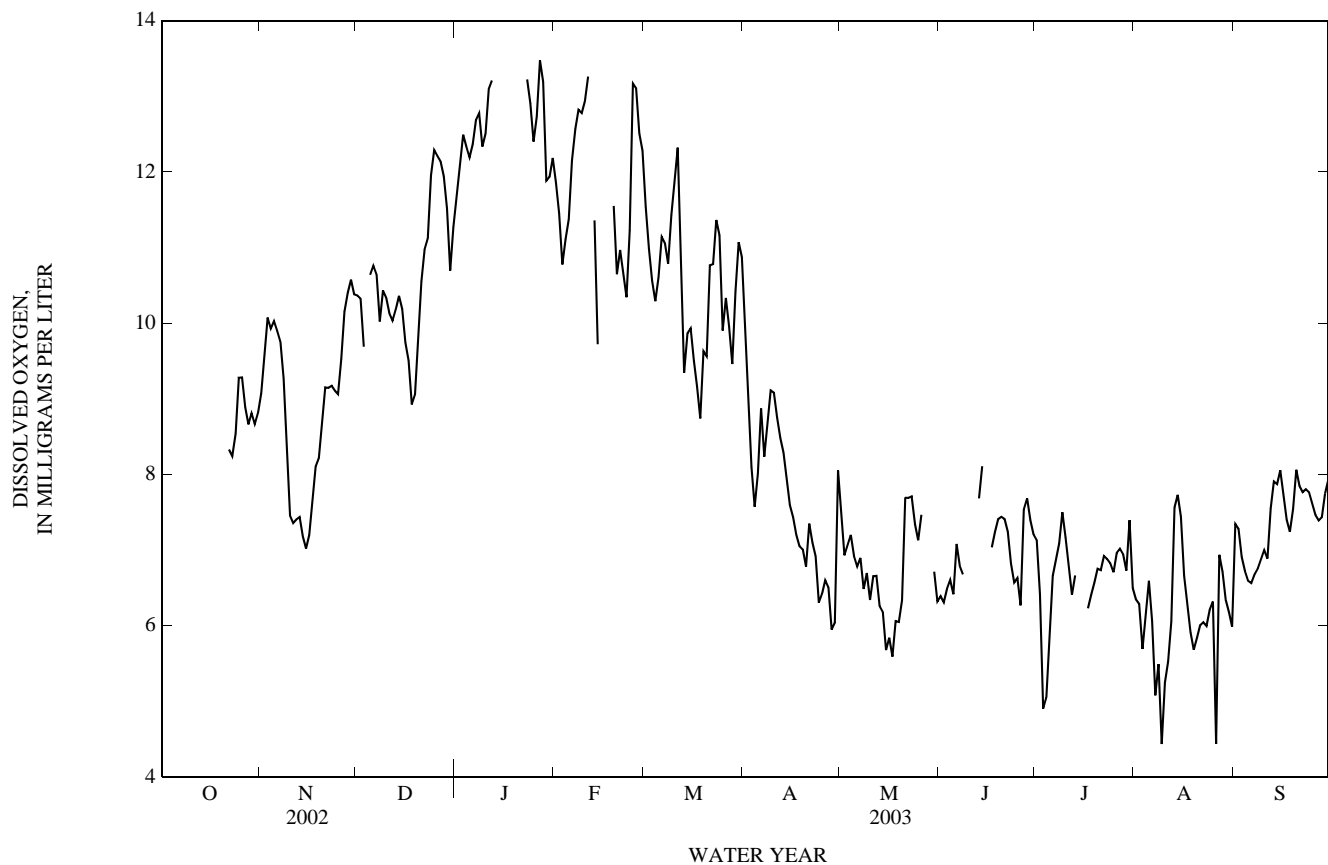
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	9.34	8.80	9.07	10.55	10.20	10.37	11.92	11.38	11.69
2	---	---	---	9.79	9.30	9.57	10.48	10.12	10.32	12.34	11.76	12.07
3	---	---	---	10.21	9.76	10.07	10.12	8.95	9.69	12.76	12.26	12.49
4	---	---	---	10.05	9.84	9.93	---	---	---	12.56	12.02	12.34
5	---	---	---	10.17	9.81	10.03	10.80	10.51	10.64	12.48	11.99	12.20
6	---	---	---	10.07	9.77	9.90	10.89	10.62	10.76	12.83	11.99	12.37
7	---	---	---	9.95	9.40	9.76	10.83	10.27	10.64	13.24	12.27	12.69
8	---	---	---	9.58	8.70	9.27	10.27	9.56	10.02	13.40	12.26	12.78
9	---	---	---	8.70	7.61	8.30	10.64	10.09	10.43	13.08	11.77	12.34
10	---	---	---	7.87	7.00	7.46	10.59	10.00	10.34	13.51	11.73	12.51
11	---	---	---	7.87	6.93	7.36	10.20	10.00	10.13	14.27	12.17	13.10
12	---	---	---	7.95	6.96	7.41	10.10	10.00	10.03	13.83	12.67	13.21
13	---	---	---	8.04	6.95	7.44	10.30	10.00	10.18	---	---	---
14	---	---	---	7.96	6.73	7.18	10.50	10.30	10.36	---	---	---
15	---	---	---	7.55	6.61	7.02	10.30	9.80	10.19	---	---	---
16	---	---	---	7.66	6.80	7.20	9.90	9.50	9.74	---	---	---
17	---	---	---	8.12	7.21	7.69	9.90	9.00	9.51	---	---	---
18	---	---	---	8.76	7.54	8.10	9.30	8.60	8.93	---	---	---
19	---	---	---	8.74	7.76	8.22	9.80	8.50	9.05	---	---	---
20	---	---	---	9.36	8.11	8.68	10.70	9.00	9.72	---	---	---
21	---	---	---	9.63	8.63	9.15	11.40	9.90	10.55	---	---	---
22	8.45	8.22	8.33	9.43	8.91	9.15	12.20	10.10	10.97	---	---	---
23	8.33	8.17	8.24	9.47	8.91	9.17	11.80	10.10	11.12	15.18	11.95	13.22
24	9.13	8.04	8.54	9.44	8.93	9.11	12.10	11.80	11.96	14.22	11.84	12.90
25	9.38	9.10	9.28	9.43	8.71	9.06	12.50	12.10	12.29	13.34	11.43	12.40
26	9.40	9.12	9.28	9.88	9.26	9.52	12.40	12.10	12.21	14.22	11.71	12.73
27	9.16	8.71	8.89	10.35	9.87	10.15	12.30	11.94	12.14	15.19	12.12	13.48
28	8.87	8.48	8.66	10.61	10.24	10.41	12.12	11.67	11.94	14.67	12.14	13.19
29	8.91	8.63	8.81	10.81	10.45	10.58	11.72	11.00	11.52	13.12	10.86	11.88
30	8.81	8.56	8.67	10.54	10.18	10.38	11.01	10.37	10.70	13.61	10.61	11.93
31	8.93	8.65	8.81	---	---	---	11.51	10.82	11.27	13.86	10.79	12.18
MONTH	---	---	---	10.81	6.61	8.88	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	13.26	10.63	11.86	11.86	11.10	11.54	11.79	8.69	9.99	7.97	6.96	7.55
2	12.74	10.35	11.45	11.19	10.63	10.99	10.88	7.61	9.06	7.22	6.62	6.93
3	12.25	9.36	10.78	10.85	10.35	10.56	9.51	6.94	8.10	7.56	6.75	7.06
4	12.50	9.77	11.11	10.90	9.98	10.29	8.60	6.67	7.57	7.66	6.67	7.20
5	12.25	10.32	11.37	11.25	10.18	10.61	8.96	7.29	8.01	7.64	6.42	6.92
6	12.45	11.97	12.15	12.12	10.57	11.14	9.80	8.00	8.88	7.74	6.07	6.78
7	13.28	11.84	12.57	12.43	10.08	11.06	8.66	7.23	8.24	8.16	6.00	6.90
8	13.68	12.00	12.82	12.69	9.68	10.78	9.04	7.98	8.67	7.63	5.65	6.49
9	13.82	11.97	12.78	14.63	9.59	11.42	9.51	8.71	9.11	8.04	5.56	6.70
10	14.50	11.82	12.94	15.32	9.79	11.90	9.42	8.59	9.08	7.29	5.56	6.34
11	15.39	11.91	13.26	16.15	10.06	12.32	9.30	8.10	8.76	7.75	5.46	6.65
12	---	---	---	14.24	8.92	11.05	9.38	7.82	8.49	7.48	5.82	6.66
13	12.58	10.15	11.36	11.89	8.46	9.35	9.49	7.25	8.29	7.13	5.36	6.26
14	10.35	9.22	9.72	11.83	8.68	9.87	9.57	6.91	7.93	7.15	5.13	6.18
15	---	---	---	12.09	8.67	9.93	9.12	6.58	7.59	6.43	4.86	5.68
16	---	---	---	11.74	8.13	9.51	8.99	6.43	7.44	7.19	4.77	5.84
17	---	---	---	11.47	7.90	9.16	8.95	6.01	7.20	6.59	4.62	5.59
18	---	---	---	9.47	7.61	8.74	8.33	6.04	7.05	7.29	4.96	6.06
19	13.59	10.16	11.55	10.58	9.10	9.63	8.33	6.09	7.01	7.29	4.75	6.05
20	11.40	9.91	10.65	10.66	8.72	9.56	8.27	5.82	6.78	7.86	4.38	6.34
21	11.44	10.80	10.97	13.14	9.33	10.77	8.50	6.58	7.35	7.90	7.50	7.69
22	10.97	10.23	10.66	13.06	9.55	10.78	7.91	6.52	7.10	8.15	7.27	7.69
23	10.49	10.22	10.34	14.48	9.58	11.36	8.38	6.58	6.92	8.75	6.76	7.71
24	12.35	10.37	11.23	14.51	8.99	11.16	8.33	4.65	6.31	8.94	6.35	7.34
25	13.49	12.35	13.17	12.87	8.45	9.90	7.07	5.76	6.42	8.13	6.26	7.13
26	13.43	12.77	13.11	13.55	8.29	10.34	7.43	6.00	6.60	7.67	7.19	7.47
27	12.79	12.32	12.51	12.69	8.25	9.96	7.26	5.99	6.51	---	---	---
28	12.46	11.85	12.28	11.73	7.90	9.46	6.63	5.40	5.95	---	---	---
29	---	---	---	12.79	8.41	10.42	6.99	5.25	6.04	---	---	---
30	---	---	---	13.19	9.39	11.07	8.63	5.75	8.05	7.49	5.89	6.71
31	---	---	---	12.81	9.44	10.87	---	---	---	7.19	5.75	6.32
MONTH	---	---	---	16.15	7.61	10.50	11.79	4.65	7.68	---	---	---

TRINITY RIVER BASIN

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.57	5.49	6.39	8.89	5.76	7.13	8.70	5.07	6.35	7.79	5.89	7.35
2	7.54	5.23	6.31	7.68	5.42	6.42	8.89	5.13	6.29	7.40	7.00	7.28
3	7.94	5.27	6.49	5.46	4.45	4.90	7.27	4.84	5.69	7.09	6.62	6.91
4	8.33	5.07	6.61	6.50	3.77	5.05	8.96	4.91	6.18	7.11	6.37	6.73
5	7.25	4.96	6.42	6.79	4.25	5.75	9.21	5.18	6.60	7.19	6.24	6.59
6	7.36	6.59	7.08	7.46	6.10	6.66	9.06	4.91	6.06	7.33	6.03	6.56
7	7.44	6.11	6.79	8.21	6.02	6.87	6.81	4.29	5.08	7.68	5.91	6.68
8	7.42	5.87	6.68	8.32	6.04	7.09	7.91	4.61	5.49	7.71	5.77	6.76
9	---	---	---	8.83	6.57	7.50	5.18	3.07	4.44	7.85	5.89	6.88
10	---	---	---	8.71	5.90	7.17	6.45	4.41	5.25	8.07	5.71	7.00
11	---	---	---	8.44	5.38	6.78	7.51	4.17	5.53	8.25	5.97	6.89
12	---	---	---	7.88	4.99	6.41	7.30	5.65	6.06	7.90	6.69	7.55
13	8.76	7.01	7.68	8.56	4.86	6.66	8.01	5.85	7.56	8.02	7.73	7.91
14	8.30	7.66	8.11	---	---	---	7.95	7.40	7.73	8.03	7.73	7.87
15	---	---	---	---	---	---	7.75	6.98	7.44	8.14	7.98	8.05
16	---	---	---	---	---	---	6.98	6.15	6.66	8.01	7.42	7.73
17	7.34	6.84	7.04	8.52	4.92	6.23	6.77	5.78	6.28	7.62	7.05	7.40
18	7.78	6.91	7.24	9.16	4.97	6.41	6.64	5.31	5.91	7.58	7.02	7.24
19	8.10	6.81	7.41	9.33	4.95	6.57	6.49	4.82	5.68	8.11	6.79	7.54
20	8.76	6.67	7.44	10.51	4.82	6.75	6.81	4.80	5.84	8.44	7.67	8.06
21	9.26	6.29	7.41	9.96	4.78	6.73	7.38	4.99	6.01	8.39	7.42	7.85
22	8.87	6.08	7.24	10.64	4.88	6.92	7.74	5.26	6.05	8.41	7.25	7.77
23	8.21	5.74	6.82	10.17	4.71	6.88	7.40	5.19	6.00	8.70	7.12	7.80
24	7.99	5.49	6.57	9.75	4.98	6.83	7.91	5.24	6.21	8.83	6.87	7.76
25	7.93	5.44	6.63	8.25	5.27	6.71	8.43	5.02	6.32	8.65	6.67	7.62
26	7.12	5.37	6.27	9.50	5.37	6.96	7.13	2.17	4.44	8.45	6.39	7.46
27	8.58	6.90	7.54	10.01	5.41	7.02	7.16	6.55	6.94	8.37	6.39	7.39
28	9.14	6.83	7.68	10.22	4.95	6.94	6.83	6.39	6.72	8.06	6.62	7.44
29	9.12	6.18	7.40	9.37	5.07	6.73	6.51	5.91	6.34	8.31	7.00	7.75
30	8.74	5.97	7.21	11.14	5.35	7.40	7.00	5.78	6.18	8.40	7.24	7.93
31	---	---	---	9.29	4.74	6.50	6.62	5.80	5.99	---	---	---
MONTH	---	---	---	---	---	---	9.21	2.17	6.11	8.83	5.71	7.39



08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

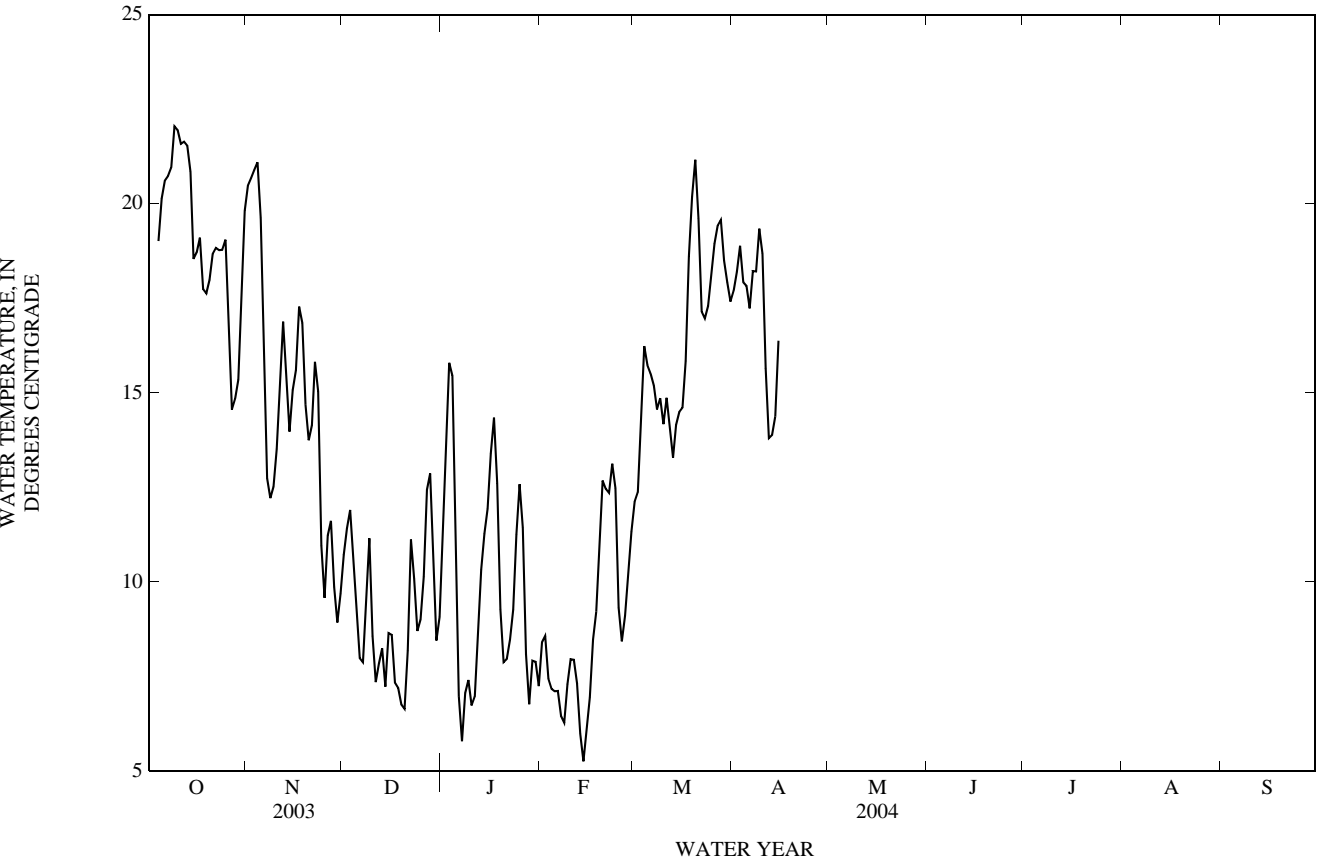
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	21.14	19.88	20.48	11.66	9.64	10.71	12.70	10.30	11.47
2	---	---	---	21.43	20.15	20.68	11.86	10.76	11.42	15.26	12.56	13.89
3	---	---	---	21.56	20.58	20.89	12.64	11.34	11.90	16.63	14.95	15.79
4	20.17	17.77	19.02	21.93	20.53	21.10	11.34	10.00	10.68	16.55	12.64	15.45
5	20.67	19.73	20.14	21.21	17.47	19.63	10.47	8.38	9.48	12.64	8.60	10.36
6	20.90	20.34	20.61	17.64	14.83	16.02	8.69	7.35	7.98	8.60	6.02	6.98
7	21.35	20.10	20.74	14.83	10.26	12.74	8.51	6.99	7.88	6.23	5.16	5.79
8	21.74	20.05	20.96	12.70	11.98	12.21	11.08	8.24	9.48	8.17	6.05	7.06
9	22.38	21.39	22.05	12.70	12.37	12.52	12.01	9.55	11.15	8.37	6.32	7.41
10	22.25	21.64	21.95	14.62	12.64	13.52	9.55	7.89	8.57	7.50	5.75	6.73
11	22.19	20.87	21.59	16.20	14.38	15.39	7.96	6.48	7.35	7.95	5.72	6.97
12	21.85	21.25	21.64	17.96	16.08	16.88	8.64	7.26	7.85	9.67	7.29	8.53
13	22.10	20.95	21.54	16.51	14.43	15.37	8.52	7.75	8.24	11.63	9.16	10.32
14	21.79	19.35	20.85	14.43	13.70	13.98	7.78	6.43	7.23	12.07	10.24	11.27
15	19.35	17.91	18.54	16.04	13.95	15.07	10.15	7.35	8.65	12.71	11.44	11.93
16	19.72	17.56	18.72	16.34	14.71	15.60	9.34	7.53	8.60	15.36	12.40	13.40
17	20.15	18.09	19.11	18.64	16.34	17.28	8.16	6.26	7.34	14.81	13.94	14.35
18	18.86	16.77	17.75	17.66	15.71	16.85	7.88	6.30	7.20	14.29	10.72	12.61
19	18.94	16.48	17.63	15.71	13.84	14.68	7.49	5.70	6.76	10.72	8.37	9.28
20	19.31	16.75	17.99	14.56	12.81	13.75	7.70	5.35	6.65	8.41	7.24	7.88
21	20.29	17.46	18.68	14.86	13.25	14.15	9.98	6.69	8.19	8.79	7.37	7.96
22	20.23	17.73	18.83	17.00	14.63	15.82	12.34	9.98	11.12	9.74	7.56	8.47
23	20.29	17.66	18.78	17.04	12.41	15.04	10.98	9.27	10.08	10.65	7.87	9.27
24	20.18	17.60	18.78	12.41	9.70	10.96	9.27	7.69	8.70	12.61	10.39	11.25
25	20.50	17.68	19.05	10.04	8.91	9.58	9.63	8.13	9.01	13.27	12.02	12.58
26	17.68	14.86	16.55	12.54	9.91	11.23	11.42	9.40	10.14	12.33	9.29	11.44
27	16.20	13.42	14.56	12.32	10.51	11.61	13.48	11.42	12.44	9.29	6.90	8.10
28	16.25	13.72	14.84	10.60	9.18	9.87	13.71	11.40	12.87	7.82	5.70	6.77
29	16.66	14.20	15.35	9.77	8.02	8.93	11.40	8.83	10.26	8.83	7.10	7.92
30	18.75	15.83	17.35	10.80	8.56	9.69	9.11	7.54	8.45	8.47	7.28	7.89
31	21.00	18.72	19.81	---	---	---	10.35	7.87	9.07	7.82	6.60	7.25
MONTH	---	---	---	21.93	8.02	14.72	13.71	5.35	9.21	16.63	5.16	9.88
FEBRUARY			MARCH			APRIL			MAY			
1	9.41	7.82	8.40	13.48	11.00	12.12	19.66	15.69	17.70	---	---	---
2	9.40	7.86	8.57	13.41	11.38	12.37	19.69	16.78	18.20	---	---	---
3	8.21	6.68	7.44	15.52	13.39	14.24	20.29	17.74	18.89	---	---	---
4	7.52	6.04	7.17	17.67	15.52	16.24	18.96	16.84	17.93	---	---	---
5	7.63	6.38	7.11	16.65	14.82	15.73	18.94	16.98	17.83	---	---	---
6	7.61	6.63	7.12	16.31	14.35	15.51	17.82	16.37	17.24	---	---	---
7	7.37	5.72	6.46	16.13	14.39	15.20	18.74	17.57	18.22	---	---	---
8	7.03	5.63	6.28	15.90	13.32	14.56	19.17	17.09	18.21	---	---	---
9	7.92	6.64	7.29	16.37	14.09	14.86	20.86	17.99	19.34	---	---	---
10	8.62	7.42	7.95	15.86	12.89	14.17	19.60	17.23	18.68	---	---	---
11	8.16	7.62	7.94	16.83	13.56	14.87	17.23	14.34	15.65	---	---	---
12	7.67	6.81	7.32	14.72	13.53	14.12	14.34	13.51	13.80	---	---	---
13	6.92	5.53	5.98	13.68	12.88	13.29	15.26	12.82	13.89	---	---	---
14	5.83	4.63	5.26	14.91	13.64	14.15	16.70	12.32	14.38	---	---	---
15	7.26	4.88	6.04	15.03	13.91	14.49	18.72	14.46	16.38	---	---	---
16	7.95	5.63	6.95	15.77	13.46	14.61	---	---	---	---	---	---
17	9.74	7.49	8.48	17.81	13.98	15.84	---	---	---	---	---	---
18	10.40	8.21	9.21	20.49	16.97	18.61	---	---	---	---	---	---
19	12.70	9.37	10.94	21.41	19.30	20.19	---	---	---	---	---	---
20	14.09	11.55	12.68	22.67	20.10	21.17	---	---	---	---	---	---
21	14.02	10.96	12.46	21.15	18.00	19.61	---	---	---	---	---	---
22	13.91	10.70	12.36	18.00	16.32	17.16	---	---	---	---	---	---
23	13.92	12.42	13.13	18.70	15.59	16.97	---	---	---	---	---	---
24	13.31	10.65	12.48	17.86	16.72	17.30	---	---	---	---	---	---
25	10.65	8.19	9.32	19.45	17.30	18.17	---	---	---	---	---	---
26	9.69	7.25	8.43	19.58	18.44	18.94	---	---	---	---	---	---
27	10.64	7.59	9.10	20.55	18.50	19.42	---	---	---	---	---	---
28	10.72	9.72	10.29	20.44	18.41	19.57	---	---	---	---	---	---
29	12.00	10.72	11.33	20.32	16.80	18.50	---	---	---	---	---	---
30	---	---	---	19.57	16.39	17.92	---	---	---	---	---	---
31	---	---	---	19.10	15.67	17.41	---	---	---	---	---	---
MONTH	14.09	4.63	8.74	22.67	11.00	16.36	---	---	---	---	---	---

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

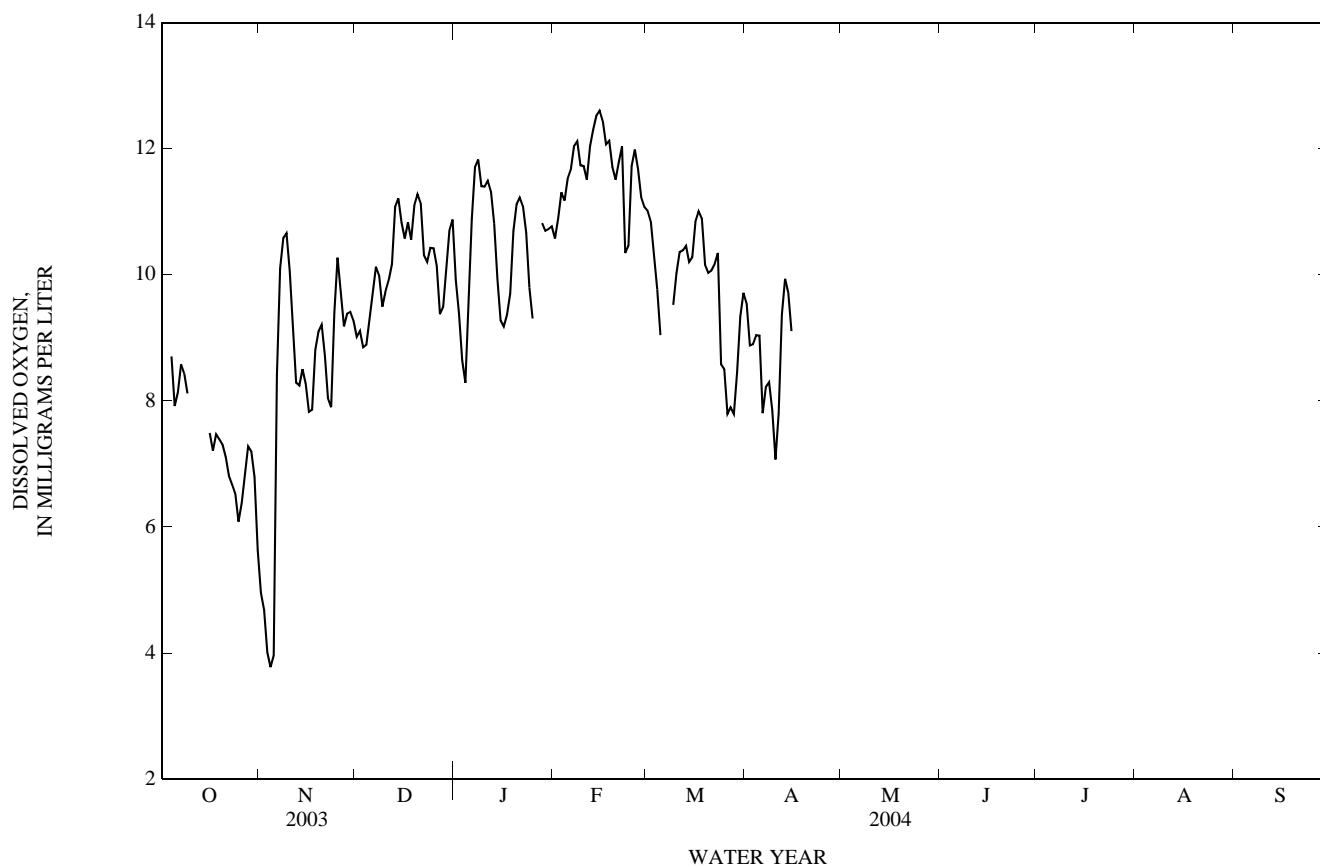
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	5.73	4.33	4.95	9.30	8.76	9.01	10.38	9.36	9.92
2	---	---	---	5.36	4.04	4.68	9.61	8.71	9.11	10.22	8.58	9.39
3	---	---	---	4.65	3.59	4.01	9.40	8.49	8.85	9.65	7.87	8.64
4	9.36	7.95	8.71	4.38	3.30	3.78	9.31	8.48	8.89	9.43	7.36	8.29
5	8.80	7.40	7.92	6.69	2.95	3.96	9.75	8.76	9.29	10.96	8.45	9.64
6	8.85	7.54	8.14	8.92	6.69	8.41	10.10	9.39	9.73	12.08	9.84	10.88
7	9.64	7.92	8.58	11.33	8.81	10.10	10.47	9.78	10.13	12.60	10.87	11.71
8	9.74	7.38	8.43	10.72	10.43	10.59	10.40	9.59	9.99	12.37	11.22	11.83
9	8.37	7.29	8.12	10.80	10.45	10.66	9.93	9.10	9.50	11.99	10.90	11.41
10	---	---	---	10.46	9.54	10.06	10.25	9.16	9.74	11.94	10.97	11.44
11	---	---	---	9.54	8.59	9.11	10.33	9.50	9.92	11.94	11.09	11.49
12	---	---	---	8.62	7.98	8.29	11.16	9.55	10.17	11.75	10.79	11.32
13	---	---	---	8.40	8.03	8.24	11.24	10.88	11.08	11.56	10.23	10.81
14	---	---	---	8.77	8.24	8.50	11.56	10.99	11.21	10.37	9.64	9.94
15	---	---	---	8.50	7.89	8.27	11.18	10.24	10.83	9.95	8.75	9.28
16	8.15	6.90	7.49	7.98	7.55	7.83	11.22	10.11	10.58	9.75	8.71	9.18
17	7.97	6.51	7.21	8.81	7.25	7.86	11.56	10.31	10.83	9.60	9.05	9.37
18	8.20	7.01	7.47	9.05	8.52	8.81	10.83	10.24	10.56	10.26	9.21	9.70
19	8.00	6.89	7.39	9.27	8.88	9.10	11.68	10.50	11.10	11.00	10.23	10.69
20	7.98	6.82	7.31	9.43	8.90	9.21	11.82	10.86	11.28	11.44	10.75	11.12
21	7.82	6.71	7.11	8.92	8.30	8.71	11.66	10.57	11.14	11.41	10.57	11.22
22	7.61	6.25	6.81	8.32	7.47	8.04	10.89	9.83	10.31	11.27	10.78	11.08
23	7.54	6.25	6.67	8.38	7.09	7.90	11.01	9.21	10.21	11.02	9.98	10.67
24	7.47	6.07	6.53	10.03	8.09	9.40	11.06	9.63	10.43	9.99	9.29	9.80
25	6.76	5.61	6.08	10.58	9.98	10.27	10.79	9.72	10.42	9.68	8.89	9.31
26	7.20	5.75	6.38	9.98	9.10	9.72	10.61	9.66	10.14	---	---	---
27	7.66	6.29	6.82	9.50	8.92	9.18	9.95	9.03	9.38	---	---	---
28	8.00	6.78	7.28	9.77	9.08	9.38	9.69	9.16	9.49	11.62	10.21	10.82
29	7.95	6.86	7.20	9.69	9.18	9.41	10.87	9.46	10.06	11.30	10.32	10.70
30	7.66	5.93	6.79	9.40	9.01	9.27	11.54	10.02	10.70	11.54	10.16	10.73
31	6.32	4.93	5.63	---	---	---	11.80	10.27	10.88	11.43	10.34	10.77
MONTH	---	---	---	11.33	2.95	8.26	11.82	8.48	10.16	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	11.18	10.18	10.58	11.24	10.64	11.02	12.55	7.47	9.54	---	---	---
2	11.25	10.42	10.90	11.18	10.46	10.84	11.80	6.98	8.88	---	---	---
3	11.91	10.81	11.31	10.86	10.07	10.36	11.69	6.80	8.90	---	---	---
4	12.02	10.75	11.18	10.10	9.14	9.77	11.85	6.94	9.04	---	---	---
5	11.87	11.27	11.52	9.92	6.59	9.04	11.85	7.21	9.04	---	---	---
6	12.11	11.26	11.67	---	---	---	8.89	7.04	7.81	---	---	---
7	12.44	11.73	12.04	---	---	---	8.68	7.07	8.22	---	---	---
8	12.50	11.80	12.12	---	---	---	8.83	7.79	8.30	---	---	---
9	12.05	11.33	11.74	10.18	9.16	9.52	8.72	6.86	7.85	---	---	---
10	12.63	11.23	11.73	11.09	9.36	10.02	7.68	6.69	7.07	---	---	---
11	11.83	11.15	11.51	12.12	9.45	10.36	8.80	6.98	7.81	---	---	---
12	12.45	11.82	12.04	12.05	9.46	10.39	10.00	8.80	9.37	---	---	---
13	12.80	11.84	12.31	11.78	9.79	10.46	10.59	9.49	9.94	---	---	---
14	13.13	12.06	12.53	10.70	9.89	10.20	10.47	8.82	9.72	---	---	---
15	12.98	12.03	12.61	10.96	9.87	10.28	10.14	8.05	9.11	---	---	---
16	13.11	11.88	12.44	12.83	9.78	10.84	---	---	---	---	---	---
17	13.11	11.44	12.07	14.25	9.33	11.01	---	---	---	---	---	---
18	13.60	11.21	12.13	15.64	8.55	10.89	---	---	---	---	---	---
19	13.45	10.34	11.71	14.52	7.84	10.16	---	---	---	---	---	---
20	14.36	9.97	11.51	14.29	7.35	10.03	---	---	---	---	---	---
21	14.96	9.87	11.79	14.99	7.20	10.07	---	---	---	---	---	---
22	15.44	9.98	12.04	12.85	8.60	10.17	---	---	---	---	---	---
23	12.62	9.58	10.35	13.36	8.23	10.35	---	---	---	---	---	---
24	11.29	10.14	10.46	10.24	7.54	8.58	---	---	---	---	---	---
25	12.13	11.21	11.73	10.64	7.33	8.50	---	---	---	---	---	---
26	12.36	11.48	11.99	9.35	6.80	7.79	---	---	---	---	---	---
27	12.00	11.10	11.68	10.25	6.67	7.90	---	---	---	---	---	---
28	11.59	11.01	11.23	9.62	6.41	7.79	---	---	---	---	---	---
29	11.36	10.72	11.08	11.65	6.83	8.45	---	---	---	---	---	---
30	---	---	---	12.34	7.43	9.34	---	---	---	---	---	---
31	---	---	---	12.69	7.62	9.71	---	---	---	---	---	---
MONTH	15.44	9.58	11.66	---	---	---	---	---	---	---	---	---

TRINITY RIVER BASIN

08049553 Big Bear Creek at Euless/Grapevine Road near Grapevine, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



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08049556 Unnamed Tributary Big Bear Creek (Of 19) near Euless, TX

LOCATION.--Lat 32°52'19", long 97°03'24", Tarrant County, Hydrologic Unit 12030102, on west side of Dallas/ Fort Worth Airport, upstream of bridge on South Airfield Drive on left side of stream.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 2002 to May 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 499.64 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge (2003 WY), 4,620 cfs, June 13, gage height, 13.06 ft, maximum discharge (2004 WY), 3,350 cfs, May 27, gage height, 12.15 ft; minimum discharge (2003 WY), 0.02 cfs, on many days, minimum discharge (2004 WY), 0.0 cfs, Apr. 22, gage height, 3.51 ft.

EXTREMES FOR CURRENT YEAR (PRECIPITATION).--Maximum daily precipitation (2003 WY), 2.71 in, Sept. 11, maximum daily precipitation (2004 WY), 2.64 in, Jan. 16.

PERIOD OF RECORD (PRECIPITATION).--Nov. 2002 to Apr. 2004 (discontinued).

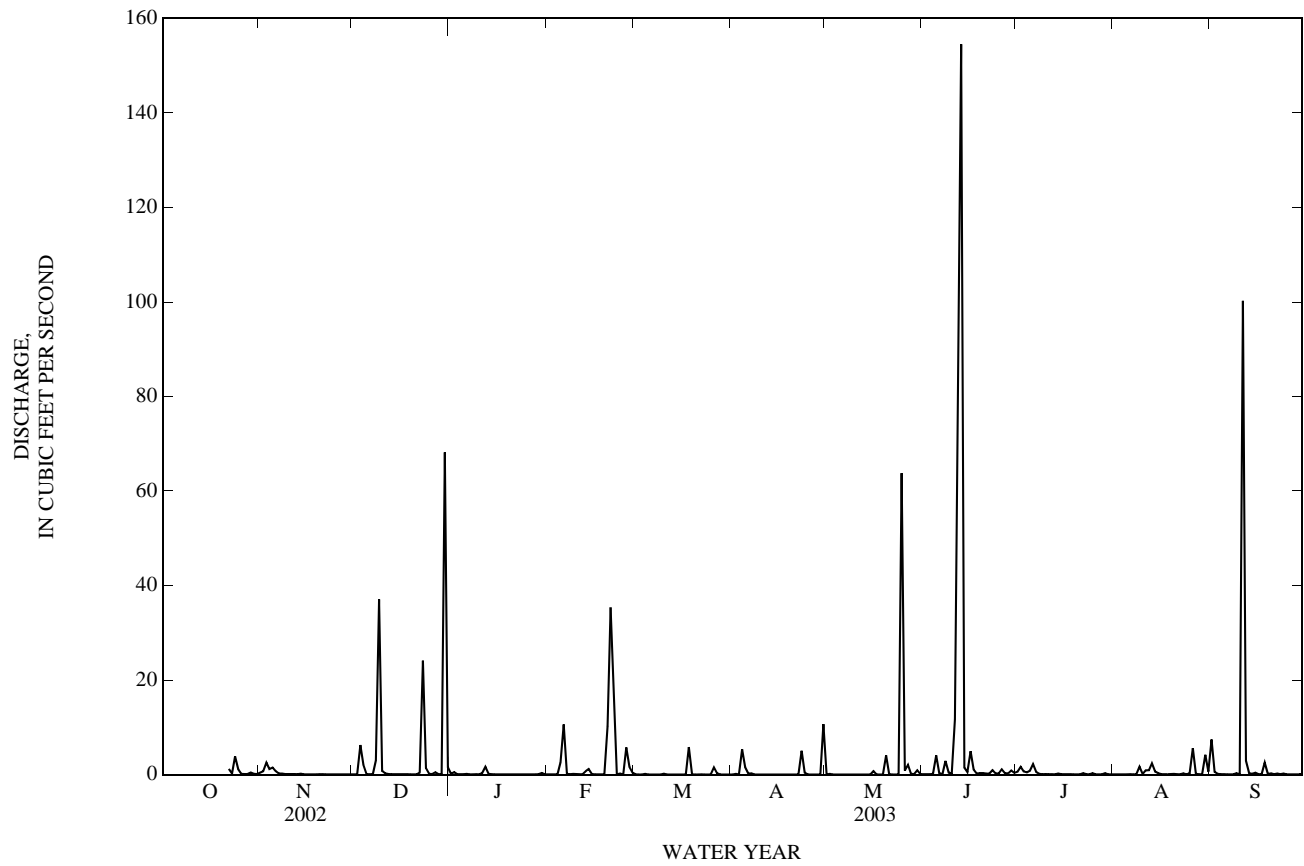
INSTRUMENTATION (PRECIPITATION).--Rain gage since Nov. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.39	0.07	0.18	0.06	0.06	0.02	0.05	0.09	0.59	0.07	7.4
2	---	0.72	0.08	0.53	0.06	0.04	0.18	0.18	0.10	1.7	0.06	0.61
3	---	2.5	6.3	0.10	0.06	0.03	0.02	0.02	0.09	0.68	0.06	0.16
4	---	1.2	2.1	0.11	0.05	0.18	5.3	0.02	0.16	0.47	0.07	0.11
5	---	e1.5	0.11	0.09	2.6	0.03	1.6	0.02	4.0	0.81	0.07	0.10
6	---	e0.75	0.11	0.17	11	0.03	0.23	0.02	0.30	2.2	0.08	0.08
7	---	e0.22	0.08	0.06	0.17	0.03	0.26	0.02	0.11	0.55	0.06	0.07
8	---	0.24	3.0	0.07	0.09	0.03	0.03	0.02	2.9	0.18	0.07	0.08
9	---	0.14	37	0.09	0.17	0.03	0.03	0.02	0.42	0.11	1.7	0.31
10	---	0.13	0.80	0.05	0.12	0.20	0.02	0.02	0.13	0.14	0.12	0.08
11	---	0.14	0.26	0.35	0.09	0.03	0.02	0.02	12	0.08	0.92	100
12	---	0.12	0.13	1.7	0.08	0.03	0.02	0.02	60	0.09	0.95	2.9
13	---	0.11	0.10	0.16	0.70	0.03	0.02	0.03	155	0.08	2.4	0.29
14	---	0.21	0.09	0.10	1.2	0.04	0.02	0.03	1.5	0.25	0.63	0.18
15	---	0.07	0.08	0.08	0.12	0.03	0.02	0.03	0.55	0.08	0.31	0.40
16	---	0.06	0.09	0.07	0.08	0.03	0.02	0.74	4.9	0.10	0.11	0.10
17	---	0.06	0.09	0.06	0.08	0.03	0.02	0.03	1.1	0.11	0.10	0.09
18	---	0.06	0.09	0.06	0.08	5.8	0.02	0.02	0.20	0.10	0.09	2.5
19	---	0.07	0.08	0.06	0.07	0.07	0.02	0.04	0.33	0.08	0.14	0.13
20	---	0.10	0.07	0.07	10	0.03	0.02	4.1	0.33	0.08	0.16	0.26
21	---	0.09	0.08	0.07	35	0.03	0.02	0.09	0.23	0.08	0.10	0.09
22	1.2	0.07	0.44	0.06	14	0.08	0.03	0.03	0.21	0.31	0.07	0.25
23	0.23	0.06	24	0.05	0.07	0.03	5.0	0.02	0.94	0.09	0.27	0.10
24	3.8	0.07	1.4	0.06	0.22	0.04	0.44	0.02	0.27	0.07	0.05	0.24
25	1.1	0.06	0.16	0.06	0.04	0.03	0.03	64	0.24	0.30	0.27	0.08
26	0.17	0.06	0.15	0.06	5.8	1.5	0.02	0.85	1.1	0.06	5.6	0.08
27	e0.12	0.05	0.50	0.06	1.6	0.30	0.02	2.1	0.30	0.06	0.18	0.07
28	0.14	0.07	0.09	0.07	0.41	0.02	0.02	0.17	0.28	0.06	0.08	0.07
29	0.43	0.07	0.09	0.10	---	0.02	0.02	0.12	0.87	0.31	0.08	0.06
30	0.15	0.07	68	0.35	---	0.02	11	0.91	0.37	0.07	4.2	0.06
31	0.12	---	1.6	0.05	---	0.02	---	0.09	---	0.07	0.65	---
TOTAL	---	9.46	147.24	5.15	84.02	8.87	24.49	73.85	249.02	9.96	19.72	116.95
MEAN	---	0.32	4.75	0.17	3.00	0.29	0.82	2.38	8.30	0.32	0.64	3.90
MAX	---	2.5	68	1.7	35	5.8	11	64	155	2.2	5.6	100
MIN	---	0.05	0.07	0.05	0.04	0.02	0.02	0.02	0.09	0.06	0.05	0.06
AC-FT	---	19	292	10	167	18	49	146	494	20	39	232

e Estimated

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

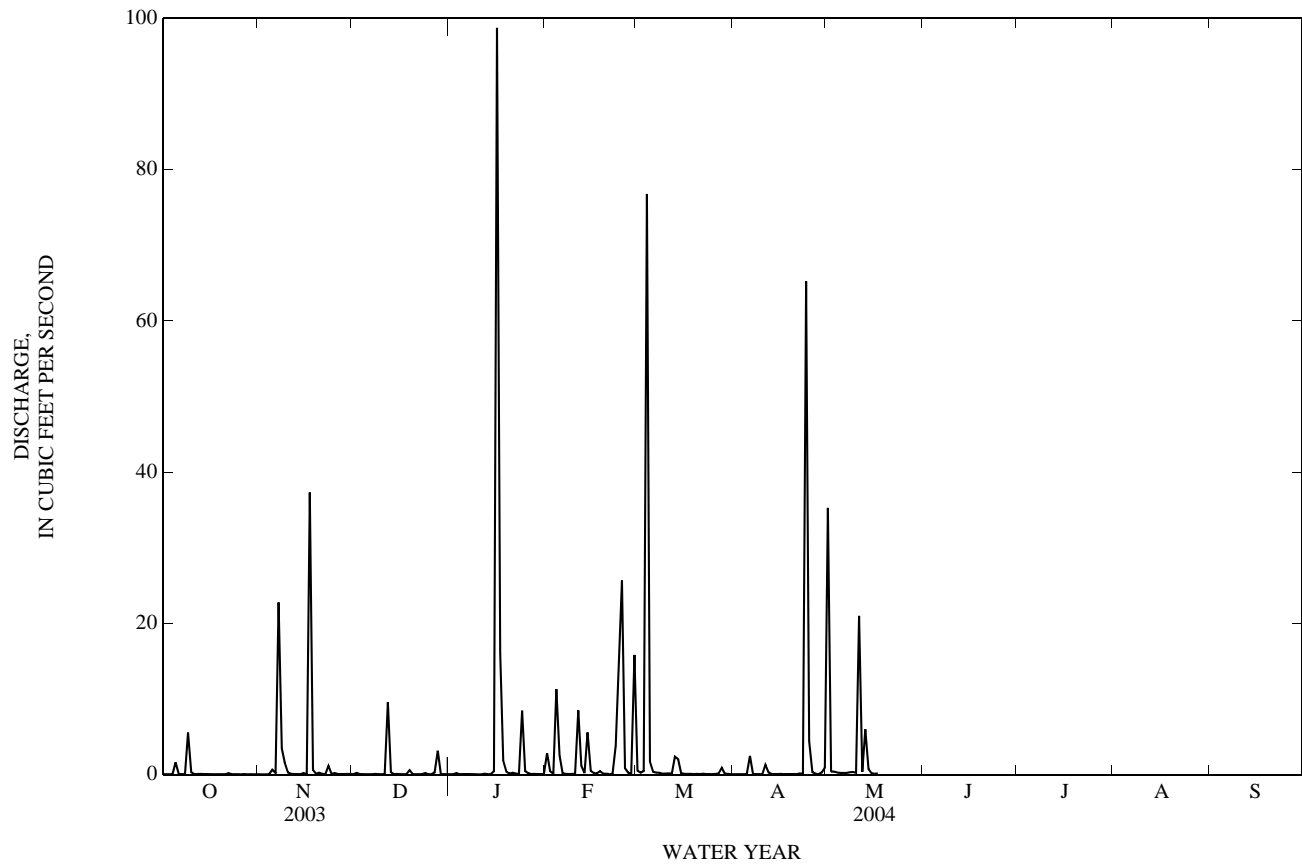


08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.05	0.07	0.06	2.8	0.54	0.07	35	---	---	---	---
2	0.07	0.05	0.23	0.07	0.48	0.26	0.05	0.42	---	---	---	---
3	0.07	0.05	0.08	0.21	0.12	0.47	0.07	0.40	---	---	---	---
4	0.07	0.06	0.07	0.07	11	77	0.07	0.28	---	---	---	---
5	1.6	0.66	0.06	0.09	2.5	1.7	0.07	0.24	---	---	---	---
6	0.08	0.22	0.06	0.08	0.19	0.37	2.5	0.23	---	---	---	---
7	0.07	23	0.06	0.08	0.10	0.28	0.09	0.23	---	---	---	---
8	0.08	3.5	0.11	0.06	0.08	0.24	0.08	0.31	---	---	---	---
9	5.6	1.6	0.07	0.05	0.11	0.13	0.06	0.35	---	---	---	---
10	0.32	0.28	0.06	0.05	0.10	0.14	0.06	0.24	---	---	---	---
11	0.09	0.11	0.07	0.05	8.5	0.17	1.3	21	---	---	---	---
12	0.09	0.08	9.6	0.14	1.2	0.15	0.27	0.35	---	---	---	---
13	0.11	0.07	0.31	0.07	0.21	2.4	0.09	6.0	---	---	---	---
14	0.08	0.07	0.07	0.06	5.6	2.1	0.08	0.74	---	---	---	---
15	0.09	0.21	0.10	0.44	0.52	0.18	0.09	0.19	---	---	---	---
16	0.06	0.06	0.07	99	0.21	0.10	0.10	0.14	---	---	---	---
17	0.07	37	0.07	16	0.14	0.11	0.07	0.16	---	---	---	---
18	0.06	0.64	0.07	1.9	0.47	0.11	0.07	---	---	---	---	---
19	0.06	0.13	0.58	0.41	0.12	0.09	0.08	---	---	---	---	---
20	0.06	0.26	0.06	0.12	0.13	0.11	0.08	---	---	---	---	---
21	0.06	0.10	0.06	0.25	0.09	0.08	0.07	---	---	---	---	---
22	0.18	0.09	0.07	0.14	0.11	0.12	0.17	---	---	---	---	---
23	0.06	1.2	0.07	0.07	3.8	0.08	0.10	---	---	---	---	---
24	0.06	0.09	0.22	8.5	17	0.09	65	---	---	---	---	---
25	0.06	0.22	0.05	0.46	26	0.07	4.4	---	---	---	---	---
26	0.05	0.09	0.06	0.18	0.85	0.10	0.34	---	---	---	---	---
27	0.09	0.08	0.27	0.08	0.25	0.15	0.13	---	---	---	---	---
28	0.05	0.08	3.1	0.11	0.18	0.91	0.06	---	---	---	---	---
29	0.06	0.11	0.07	0.08	16	0.13	0.28	---	---	---	---	---
30	0.05	0.08	0.06	0.09	---	0.11	0.92	---	---	---	---	---
31	0.05	---	0.06	0.08	---	0.06	---	---	---	---	---	---
TOTAL	9.57	70.24	15.96	129.05	98.86	88.55	76.82	---	---	---	---	---
MEAN	0.31	2.34	0.51	4.16	3.41	2.86	2.56	---	---	---	---	---
MAX	5.6	37	9.6	99	26	77	65	---	---	---	---	---
MIN	0.05	0.05	0.05	0.05	0.08	0.06	0.05	---	---	---	---	---
AC-FT	19	139	32	256	196	176	152	---	---	---	---	---

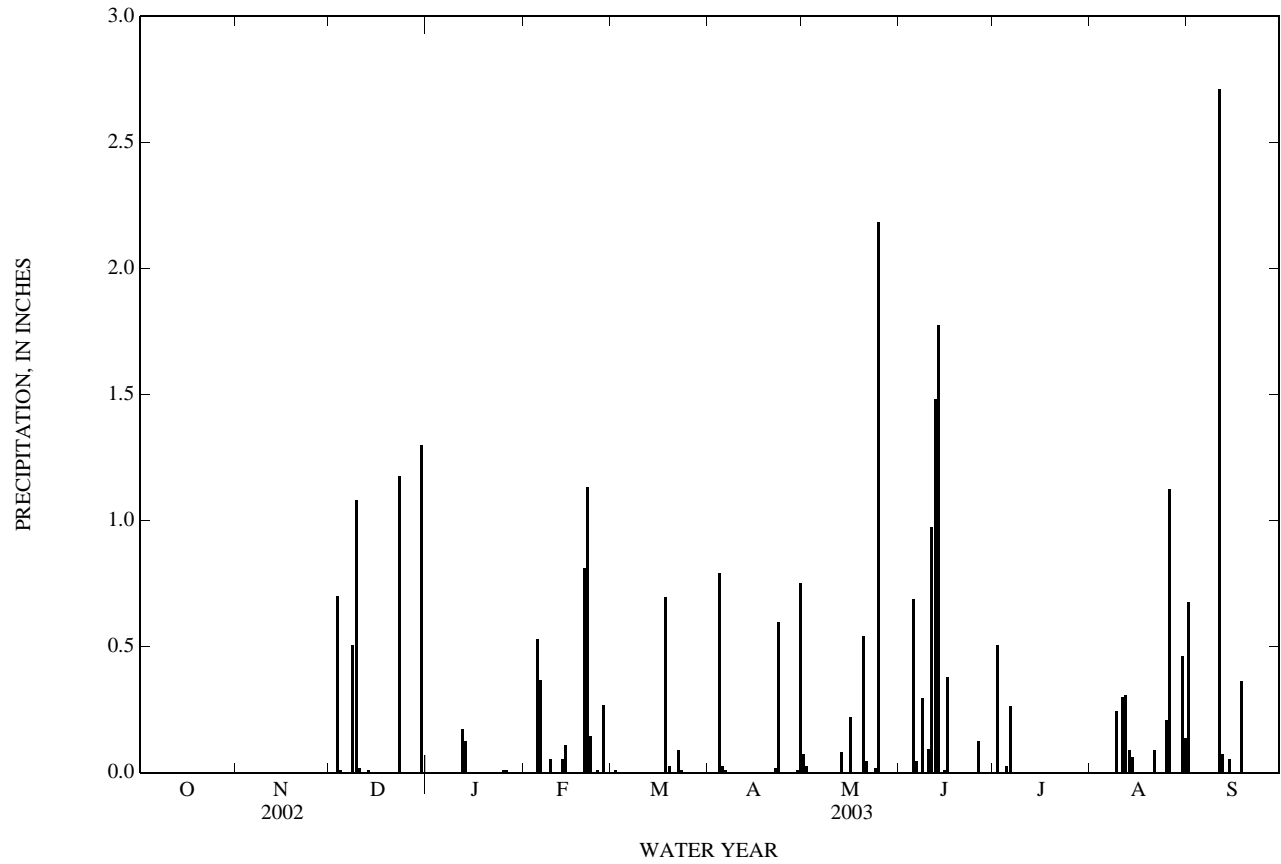
08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued



PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.000	0.000	0.000	0.000	0.000	0.072	0.000	0.000	0.000	0.675
2	---	---	0.000	0.000	0.000	0.009	0.000	0.027	0.000	0.506	0.000	0.000
3	---	---	0.702	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	---	---	0.009	0.000	0.000	0.000	0.792	0.000	0.000	0.000	0.000	0.000
5	---	---	0.000	0.000	0.531	0.000	0.027	0.000	0.689	0.027	0.000	0.000
6	---	---	0.000	0.000	0.369	0.000	0.009	0.000	0.045	0.264	0.000	0.000
7	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	---	---	0.504	0.000	0.000	0.000	0.000	0.000	0.297	0.000	0.000	0.000
9	---	---	1.080	0.000	0.054	0.000	0.000	0.000	0.000	0.000	0.243	0.000
10	---	---	0.018	0.000	0.000	0.000	0.000	0.000	0.092	0.000	0.000	0.000
11	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.972	0.000	0.299	2.710
12	---	---	0.000	0.171	0.000	0.000	0.000	0.000	1.481	0.000	0.308	0.072
13	---	---	0.009	0.126	0.054	0.000	0.000	0.081	1.773	0.000	0.090	0.000
14	---	---	0.000	0.000	0.108	0.000	0.000	0.000	0.000	0.000	0.063	0.054
15	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000
16	---	0.000	0.000	0.000	0.000	0.000	0.000	0.221	0.378	0.000	0.000	0.000
17	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	---	0.000	0.000	0.000	0.000	0.696	0.000	0.000	0.000	0.000	0.000	0.362
19	---	0.000	0.000	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000
20	---	0.000	0.000	0.000	0.810	0.000	0.000	0.540	0.000	0.000	0.000	0.000
21	---	0.000	0.000	0.000	1.134	0.000	0.000	0.045	0.000	0.000	0.091	0.000
22	---	0.000	0.000	0.000	0.144	0.090	0.018	0.000	0.000	0.000	0.000	0.000
23	---	0.000	1.176	0.000	0.000	0.009	0.595	0.000	0.000	0.000	0.000	0.000
24	---	0.000	0.000	0.000	0.009	0.000	0.000	0.018	0.000	0.000	0.000	0.000
25	---	0.000	0.000	0.009	0.000	0.000	0.000	2.185	0.000	0.000	0.207	0.000
26	---	0.000	0.000	0.009	0.270	0.000	0.000	0.000	0.126	0.000	1.123	0.000
27	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	---	0.000	0.000	0.000	---	0.000	0.009	0.000	0.000	0.000	0.000	0.000
30	---	0.000	1.299	0.000	---	0.000	0.750	0.000	0.000	0.000	0.461	0.000
31	---	---	0.000	0.000	---	0.000	---	0.000	---	0.000	0.135	---
TOTAL	---	---	4.797	0.315	3.483	0.831	2.200	3.189	5.862	0.797	3.020	3.873
MEAN	---	---	0.155	0.010	0.124	0.027	0.073	0.103	0.195	0.026	0.097	0.129
MAX	---	---	1.299	0.171	1.134	0.696	0.792	2.185	1.773	0.506	1.123	2.710
MIN	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

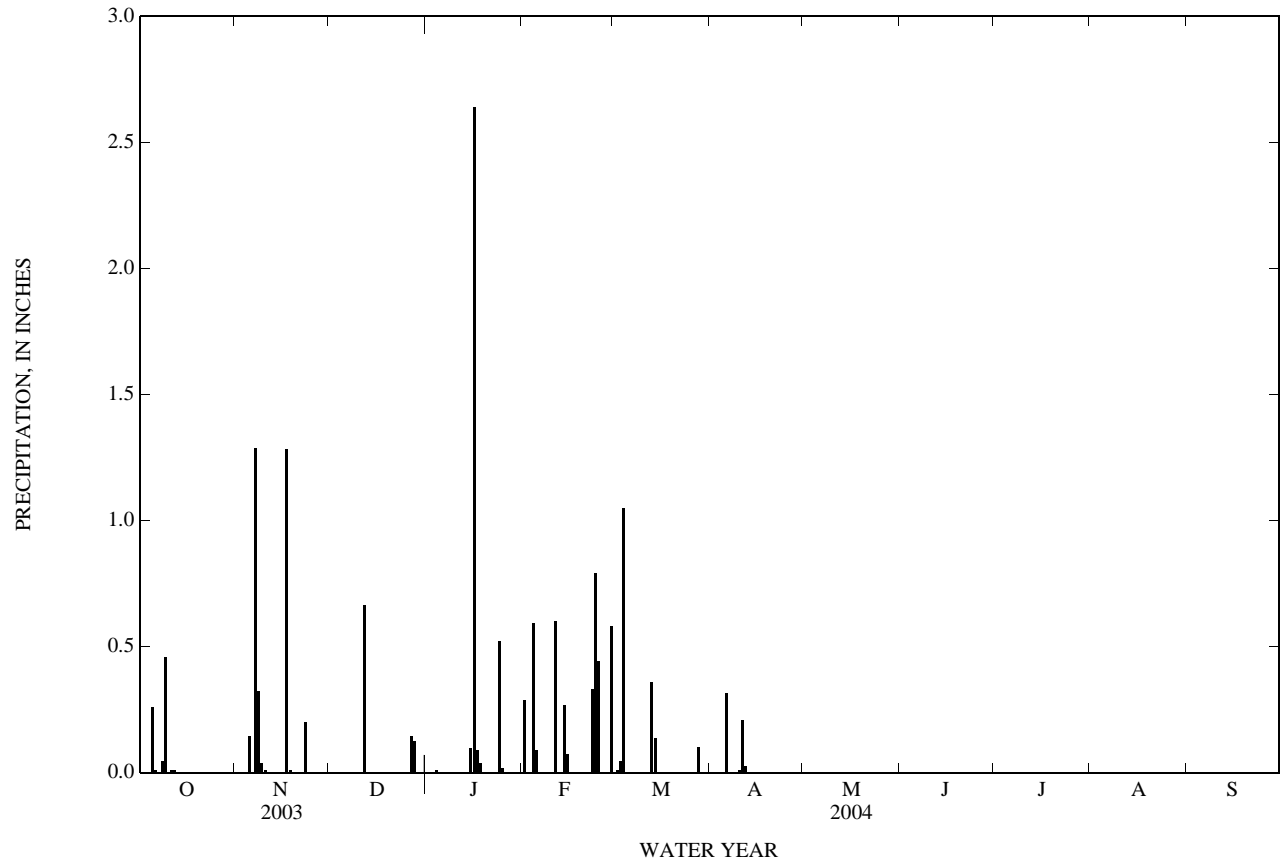


08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	0.000	0.000	0.000	0.288	0.000	0.000	---	---	---	---	---
2	0.000	0.000	0.000	0.000	0.000	0.009	0.000	---	---	---	---	---
3	0.000	0.000	0.000	0.000	0.000	0.045	0.000	---	---	---	---	---
4	0.000	0.000	0.000	0.009	0.594	1.048	0.000	---	---	---	---	---
5	0.261	0.144	0.000	0.000	0.090	0.000	0.000	---	---	---	---	---
6	0.009	0.000	0.000	0.000	0.000	0.000	0.315	---	---	---	---	---
7	0.000	1.288	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
8	0.045	0.325	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
9	0.459	0.036	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
10	0.000	0.009	0.000	0.000	0.000	0.000	0.009	---	---	---	---	---
11	0.009	0.000	0.000	0.000	0.603	0.000	0.207	---	---	---	---	---
12	0.009	0.000	0.666	0.000	0.000	0.000	0.027	---	---	---	---	---
13	0.000	0.000	0.000	0.000	0.000	0.360	0.000	---	---	---	---	---
14	0.000	0.000	0.000	0.000	0.270	0.135	0.000	---	---	---	---	---
15	0.000	0.000	0.000	0.099	0.072	0.000	0.000	---	---	---	---	---
16	0.000	0.000	0.000	2.640	0.000	0.000	---	---	---	---	---	---
17	0.000	1.282	0.000	0.090	0.000	0.000	---	---	---	---	---	---
18	0.000	0.009	0.000	0.036	0.000	0.000	---	---	---	---	---	---
19	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
20	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
21	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
22	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
23	0.000	0.200	0.000	0.000	0.333	0.000	---	---	---	---	---	---
24	0.000	0.000	0.000	0.522	0.792	0.000	---	---	---	---	---	---
25	0.000	0.000	0.000	0.018	0.441	0.000	---	---	---	---	---	---
26	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
27	0.000	0.000	0.144	0.000	0.000	0.000	---	---	---	---	---	---
28	0.000	0.000	0.126	0.000	0.000	0.100	---	---	---	---	---	---
29	0.000	0.000	0.000	0.000	0.581	0.000	---	---	---	---	---	---
30	0.000	0.000	0.000	0.000	---	0.000	---	---	---	---	---	---
31	0.000	---	0.000	0.000	---	0.000	---	---	---	---	---	---
TOTAL	0.792	3.293	0.936	3.414	4.064	1.697	---	---	---	---	---	---
MEAN	0.026	0.110	0.030	0.110	0.140	0.055	---	---	---	---	---	---
MAX	0.459	1.288	0.666	2.640	0.792	1.048	---	---	---	---	---	---
MIN	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued



08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical data: Nov. 2002 to Apr. 2004 (discontinued).

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2002 to Apr. 2004 (discontinued). Water temperature: Oct. 2002 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 2002.

REMARKS.--Records fair. Interruptions in the record were caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum (2003 WY), 33.79 °C, Aug. 6, maximum (2004 WY), 24.44 °C, Oct. 7; minimum (2003 WY), 2.47 °C, Jan. 24, minimum (2004 WY), 3.77 °C, Jan. 7.

DISSOLVED OXYGEN: Maximum (2003 WY), 20.27 mg/L, Dec. 21, maximum (2004 WY), 19.47 mg/L, Jan. 6; minimum (2003 WY), 0.0 mg/L, Mar. 17, 18, minimum (2004 WY), 3.72 mg/L, Oct. 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
NOV 25- DEC 02	1041	--	43	--	--
DEC 02-05	1611	--	44	--	--
DEC 06-11	1432	--	30	--	--
DEC 11-24	1304	--	34	--	--
DEC 24-31	1103	--	S25	--	--
30...	1219	--	140	<18.0	<18.0
30...	1354	--	45	--	--
30...	1429	--	87	<18.0	<18.0
30...	1442	--	49	<18.0	<18.0
30...	1505	5.1	37	<18.0	<18.0
30...	1532	5.2	39	<18.0	<18.0
30...	1614	--	30	--	--
30...	1751	--	28	--	--
30...	2058	--	38	--	--
31...	0124	--	36	--	--
DEC 31 2002- JAN 12					
2003	1604	--	E410	--	--
12...	1247	--	S21	<18.0	<18.0
12...	1319	--	S24	--	--
12...	1419	--	750	<18.0	510
12...	1509	--	1,400	--	--
12...	1601	>1,300	4,300	400	3,300
JAN 12-21	1648	--	5,600	--	--
12...	1657	--	15,000	--	--
12...	1818	--	6,200	310	4,500
12...	2124	--	6,600	--	--
13...	0241	--	9,500	--	--
13...	0815	>1,800	9,600	240	8,100
JAN 21-28	1239	--	250	--	--
JAN 28- FEB 04	1033	--	47	--	--
FEB 05-11	1043	--	95	--	--
FEB 11-20	1125	--	42	--	--

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
FEB					
20-24	1156	--	51	--	--
26...	1854	--	540	S27.0	250
26...	2100	--	900	--	--
FEB 26-					
MAR 05	2112	--	720	--	--
FEB					
26...	2311	320	590	S23.0	260
27...	0109	--	610	--	--
27...	0334	370	640	S42.0	400
27...	1022	380	640	S50.0	540
27...	1559	240	420	S23.0	260
28...	0830	--	1,000	--	--
28...	1306	--	250	--	--
MAR					
01...	0728	--	380	--	--
MAR					
05-11	1155	--	250	--	--
MAR					
11-21	1211	--	84	--	--
MAR 21-					
APR 01	1018	--	72	--	--
APR					
01-08	1139	--	130	--	--
APR					
08-17	1423	--	280	--	--
APR					
17-24	1106	--	58	--	--
AUG					
26...	1733	--	260	<18.0	<18.0
26...	1742	>8.7	67	<18.0	<18.0
26...	1755	--	52	<18.0	<18.0
26...	1947	7.4	S27	<18.0	<18.0
27...	1100	--	S22	<18.0	<18.0

Remark codes used in this table:

< -- Less than

> -- Greater than

E -- Estimated value

S -- Most probable value

TRINITY RIVER BASIN

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	COD, low level, water, unfltrd mg/L (00335)
OCT 14-20	1508	S22
OCT 20-27	1300	S15
OCT 27- NOV 03	1148	S24
NOV 03-10	1110	30
NOV 10-19	1045	38
NOV 19-24	1256	S23
NOV 24-27	1145	S15
DEC 02-08	1010	S23
DEC 08-16	1335	31
DEC 16-22	0833	34
DEC 22-30	1128	39
DEC 30 2003- JAN 05 2004	1325	S26
JAN 05-12	1101	S14
JAN 12-20	1032	S22
JAN 20-26	1154	34
JAN 26- FEB 02	1055	S16
FEB 02-09	1239	40
FEB 09-13	1253	38

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Eules, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
FEB					
13-17	1448	--	2,200	--	--
14...	0655	--	S26	<18.0	<18.0
14...	0814	--	S23	--	--
14...	1009	--	39	--	--
14...	1141	9,500	38,000	3,800	20,000
14...	1220	--	5,200	--	--
14...	1225	--	4,500	--	--
14...	1226	--	4,100	--	--
14...	1227	--	3,900	--	--
14...	1439	--	1,800	--	--
14...	1440	--	1,800	--	--
14...	1446	--	1,700	250	770
14...	1742	--	840	--	--
14...	2054	300	700	110	280
15...	2044	--	1,100	--	--
16...	0851	570	1,100	150	510
FEB					
17-23	1206	--	280	--	--
FEB					
23-27	1230	--	35	--	--
FEB 27-					
MAR 05	1217	--	43	--	--
MAR					
05-15	1331	--	S25	--	--
MAR					
15-22	1026	--	S27	--	--
MAR					
22-29	1416	--	28	--	--
MAR 29-					
APR 05	1214	--	S22	--	--
APR					
05-15	1318	--	47	--	--

Remark codes used in this table:

< -- Less than

S -- Most probable value

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Eules, TX—Continued

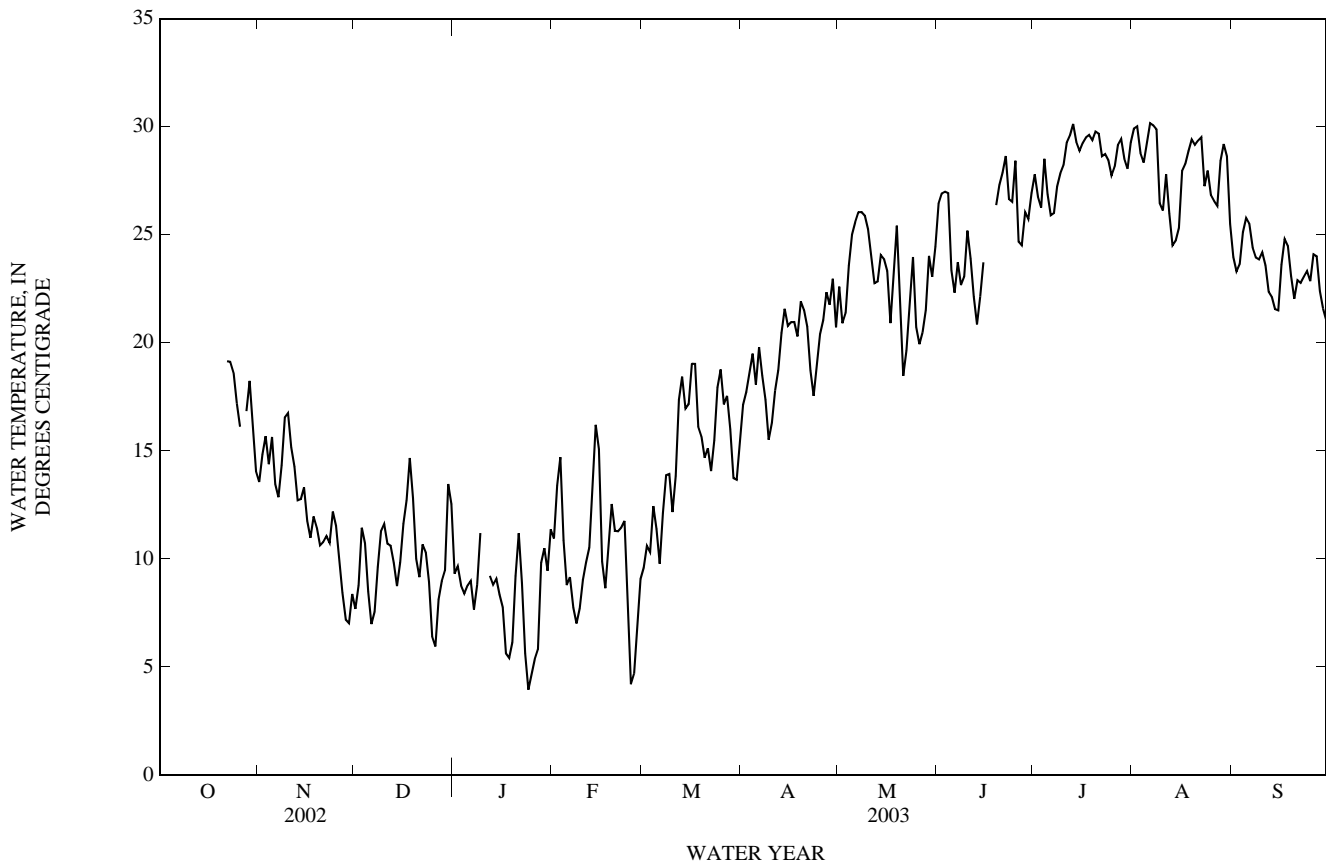
 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	14.63	12.69	13.56	8.96	6.46	7.69	11.09	7.76	9.32
2	---	---	---	15.94	13.53	14.84	10.75	7.23	8.78	12.57	6.64	9.66
3	---	---	---	16.65	14.82	15.68	14.49	9.09	11.44	11.01	7.07	8.77
4	---	---	---	16.16	13.74	14.39	11.31	9.33	10.73	10.81	6.67	8.40
5	---	---	---	17.20	14.39	15.64	9.97	7.24	8.49	11.34	7.08	8.77
6	---	---	---	14.89	11.88	13.46	9.09	5.40	6.99	11.54	7.57	8.99
7	---	---	---	14.77	11.11	12.86	9.42	5.99	7.56	9.79	5.78	7.66
8	---	---	---	16.23	12.45	14.33	14.05	8.33	9.63	12.01	6.22	8.80
9	---	---	---	18.49	15.06	16.55	12.37	10.06	11.28	13.50	9.88	11.20
10	---	---	---	17.99	15.85	16.75	11.96	11.37	11.61	---	---	---
11	---	---	---	16.53	13.95	15.16	11.48	10.22	10.71	---	---	---
12	---	---	---	15.84	13.08	14.27	11.09	9.93	10.62	10.69	8.09	9.22
13	---	---	---	14.55	11.23	12.71	11.76	8.61	9.81	9.62	8.01	8.80
14	---	---	---	14.43	11.72	12.77	10.80	6.99	8.74	11.85	7.25	9.08
15	---	---	---	15.06	12.24	13.31	12.30	7.96	9.84	8.81	7.98	8.35
16	---	---	---	13.48	10.62	11.75	13.19	10.63	11.62	9.87	6.14	7.76
17	---	---	---	13.12	9.13	10.98	15.04	10.54	12.71	7.53	4.22	5.62
18	---	---	---	13.46	10.80	11.96	15.12	13.60	14.67	8.25	3.28	5.41
19	---	---	---	13.34	10.04	11.45	14.12	11.27	12.82	9.18	3.68	6.15
20	---	---	---	12.52	9.10	10.63	11.65	8.65	10.00	12.81	6.55	9.22
21	---	---	---	12.80	9.13	10.78	11.14	7.63	9.16	13.65	9.91	11.19
22	20.27	18.15	19.15	12.90	9.82	11.06	13.68	7.05	10.68	10.36	7.02	8.88
23	19.50	18.70	19.12	12.92	9.06	10.75	12.22	8.67	10.31	8.18	3.97	5.63
24	19.05	17.91	18.60	14.09	10.40	12.19	10.48	7.28	8.94	5.43	2.47	3.95
25	17.91	16.38	17.19	13.14	10.41	11.53	7.95	5.08	6.41	5.08	4.27	4.66
26	16.74	15.30	16.12	10.98	9.34	10.00	7.06	5.00	5.95	6.65	4.64	5.36
27	16.33	---	---	9.35	7.60	8.43	12.54	4.61	8.13	8.77	3.23	5.82
28	18.36	16.17	16.84	8.62	5.80	7.20	11.16	7.01	8.97	12.71	7.19	9.82
29	19.97	17.19	18.24	8.27	5.53	7.03	11.85	7.86	9.47	11.37	9.08	10.50
30	17.42	15.05	16.25	10.00	7.20	8.38	17.40	11.85	13.46	11.23	8.23	9.45
31	15.05	13.30	14.06	---	---	---	14.17	10.57	12.54	15.29	9.67	11.37
MONTH	---	---	---	18.49	5.53	12.35	17.40	4.61	9.99	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	14.32	8.41	10.95	10.34	8.68	9.59	22.11	13.47	17.14	25.56	20.17	22.60
2	17.17	10.53	13.40	11.74	9.58	10.61	20.15	15.50	17.73	23.28	19.51	20.91
3	17.01	12.49	14.71	11.30	9.39	10.32	20.29	17.36	18.62	24.47	18.81	21.38
4	12.93	9.05	10.86	15.85	10.16	12.44	21.83	16.58	19.50	25.46	22.14	23.58
5	10.75	7.84	8.80	13.66	9.13	11.38	20.04	16.49	18.07	27.63	23.60	25.01
6	11.50	7.45	9.16	13.23	6.84	9.78	23.41	17.33	19.81	27.70	24.24	25.59
7	9.63	6.36	7.75	16.76	8.54	12.13	21.14	15.65	18.47	29.13	23.65	26.04
8	7.80	6.32	7.01	15.63	12.62	13.88	20.70	14.39	17.37	27.31	25.08	26.06
9	9.18	6.85	7.71	17.52	11.44	13.93	19.75	11.81	15.52	27.93	24.58	25.89
10	11.79	6.95	9.03	13.53	10.52	12.17	21.46	12.12	16.29	26.27	24.52	25.26
11	12.77	7.63	9.85	17.39	10.59	13.83	21.83	14.41	17.78	26.51	21.68	23.93
12	13.42	8.52	10.53	20.38	15.51	17.37	23.47	14.76	18.74	26.25	20.11	22.76
13	14.23	11.71	12.99	20.06	17.25	18.43	24.67	17.12	20.45	24.24	21.57	22.84
14	18.12	14.20	16.20	20.43	14.12	16.96	25.78	18.49	21.57	25.64	22.57	24.06
15	17.18	11.78	15.08	21.29	13.72	17.17	21.85	19.84	20.79	24.44	23.19	23.88
16	11.78	8.09	9.88	23.23	16.33	19.03	23.80	18.44	20.96	26.08	19.51	23.33
17	12.26	5.86	8.65	21.46	17.05	19.03	24.27	18.14	20.97	24.25	19.00	20.91
18	13.08	8.65	10.76	18.78	14.58	16.11	21.81	19.07	20.30	27.88	20.07	23.36
19	13.03	11.79	12.54	18.55	12.96	15.67	25.52	19.64	21.92	28.82	22.62	25.42
20	13.26	10.72	11.30	16.65	13.40	14.68	24.25	19.05	21.52	26.57	18.56	21.62
21	12.25	9.32	11.28	19.13	12.54	15.12	25.19	17.44	20.75	19.03	17.98	18.47
22	13.46	9.76	11.45	15.25	12.94	14.06	20.77	18.01	18.73	21.61	18.30	19.64
23	14.38	10.07	11.75	20.18	11.77	15.49	18.01	16.78	17.54	25.16	18.85	21.71
24	10.92	4.30	7.60	21.25	15.20	17.94	21.92	16.82	18.89	26.92	21.79	23.98
25	5.55	2.76	4.20	20.90	17.49	18.76	23.71	17.44	20.40	25.02	19.33	20.73
26	9.34	3.67	4.69	22.65	15.02	17.15	24.82	17.87	21.06	21.41	18.88	19.93
27	8.24	5.35	7.13	22.62	14.33	17.54	25.77	19.58	22.34	22.47	18.78	20.49
28	11.25	7.32	9.07	18.39	13.82	16.01	22.86	20.93	21.77	25.48	18.31	21.52
29	---	---	---	16.56	11.80	13.74	26.77	20.43	22.96	27.97	20.89	24.02
30	---	---	---	18.39	10.06	13.67	23.83	18.22	20.72	25.00	22.13	23.05
31	---	---	---	20.72	11.58	15.39	---	---	---	29.29	20.86	24.45
MONTH	18.12	2.76	10.15	23.23	6.84	14.82	26.77	11.81	19.62	29.29	17.98	22.98

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	30.16	23.59	26.44	31.02	25.35	27.79	32.93	27.48	29.91	24.45	23.05	23.98
2	29.55	25.16	26.91	30.47	23.72	26.76	32.85	27.55	30.02	24.07	22.86	23.31
3	30.58	24.42	26.99	30.86	22.83	26.26	30.20	27.87	28.78	25.56	21.99	23.64
4	29.27	25.05	26.93	31.70	25.97	28.52	31.64	26.36	28.34	27.58	23.68	25.12
5	26.55	19.85	23.36	28.67	25.40	26.88	32.42	26.82	29.24	28.93	23.60	25.78
6	24.56	20.75	22.32	27.44	24.87	25.90	33.79	27.59	30.16	28.70	23.04	25.51
7	27.81	20.63	23.73	28.56	23.17	26.01	33.14	27.47	30.06	27.26	21.80	24.41
8	24.57	19.14	22.68	29.97	25.32	27.24	31.87	28.31	29.88	26.95	21.49	23.95
9	25.97	20.51	23.06	30.95	25.71	27.84	29.74	21.72	26.47	27.78	21.94	23.86
10	27.51	23.61	25.20	30.61	26.20	28.23	29.89	23.28	26.13	27.44	22.22	24.19
11	26.43	21.10	23.91	33.21	26.24	29.26	31.64	23.30	27.80	24.90	22.21	23.58
12	24.30	20.87	22.13	33.08	26.67	29.60	29.32	23.08	25.99	22.76	21.50	22.37
13	21.45	20.07	20.86	33.58	27.47	30.13	26.64	22.89	24.51	24.80	20.19	22.12
14	25.11	20.16	22.13	31.15	27.78	29.30	27.83	23.12	24.73	22.88	20.68	21.56
15	25.57	22.26	23.73	31.71	26.52	28.89	29.73	21.98	25.32	24.59	18.98	21.50
16	---	---	---	32.28	27.04	29.25	31.35	25.26	27.96	26.54	21.52	23.62
17	---	---	---	32.80	26.97	29.50	30.65	26.10	28.28	27.80	22.74	24.81
18	28.22	---	---	32.50	27.25	29.62	31.47	26.64	28.88	26.34	23.48	24.49
19	29.33	23.75	26.37	32.07	27.20	29.38	31.93	27.29	29.42	25.33	21.60	23.09
20	30.45	24.82	27.31	33.24	27.28	29.78	31.15	27.47	29.17	24.88	20.12	22.04
21	30.83	25.68	27.88	32.57	27.30	29.68	32.02	27.26	29.36	25.02	21.62	22.90
22	31.69	26.28	28.64	30.09	27.51	28.64	32.45	27.30	29.52	25.43	20.32	22.77
23	28.77	24.71	26.65	32.02	26.32	28.74	30.04	23.66	27.25	25.04	21.52	23.06
24	29.26	24.57	26.53	31.93	25.73	28.46	30.44	25.84	27.97	24.95	22.56	23.33
25	31.59	26.24	28.43	29.50	26.69	27.74	29.79	23.89	26.84	24.62	21.27	22.85
26	28.98	21.78	24.69	31.33	25.95	28.16	29.94	24.87	26.56	26.56	22.49	24.10
27	27.46	22.14	24.52	32.41	26.65	29.16	29.44	24.39	26.33	26.25	22.29	24.01
28	29.64	23.10	26.05	32.12	27.04	29.43	31.77	26.12	28.42	24.80	20.21	22.40
29	29.49	21.09	25.74	32.29	26.64	28.52	32.18	26.97	29.20	23.90	19.50	21.58
30	30.52	24.13	26.93	31.75	25.55	28.05	31.70	26.07	28.64	23.40	18.97	21.04
31	---	---	---	32.70	26.72	29.27	26.64	23.06	25.50	---	---	---
MONTH	---	---	---	33.58	22.83	28.45	33.79	21.72	27.96	28.93	18.97	23.37



08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

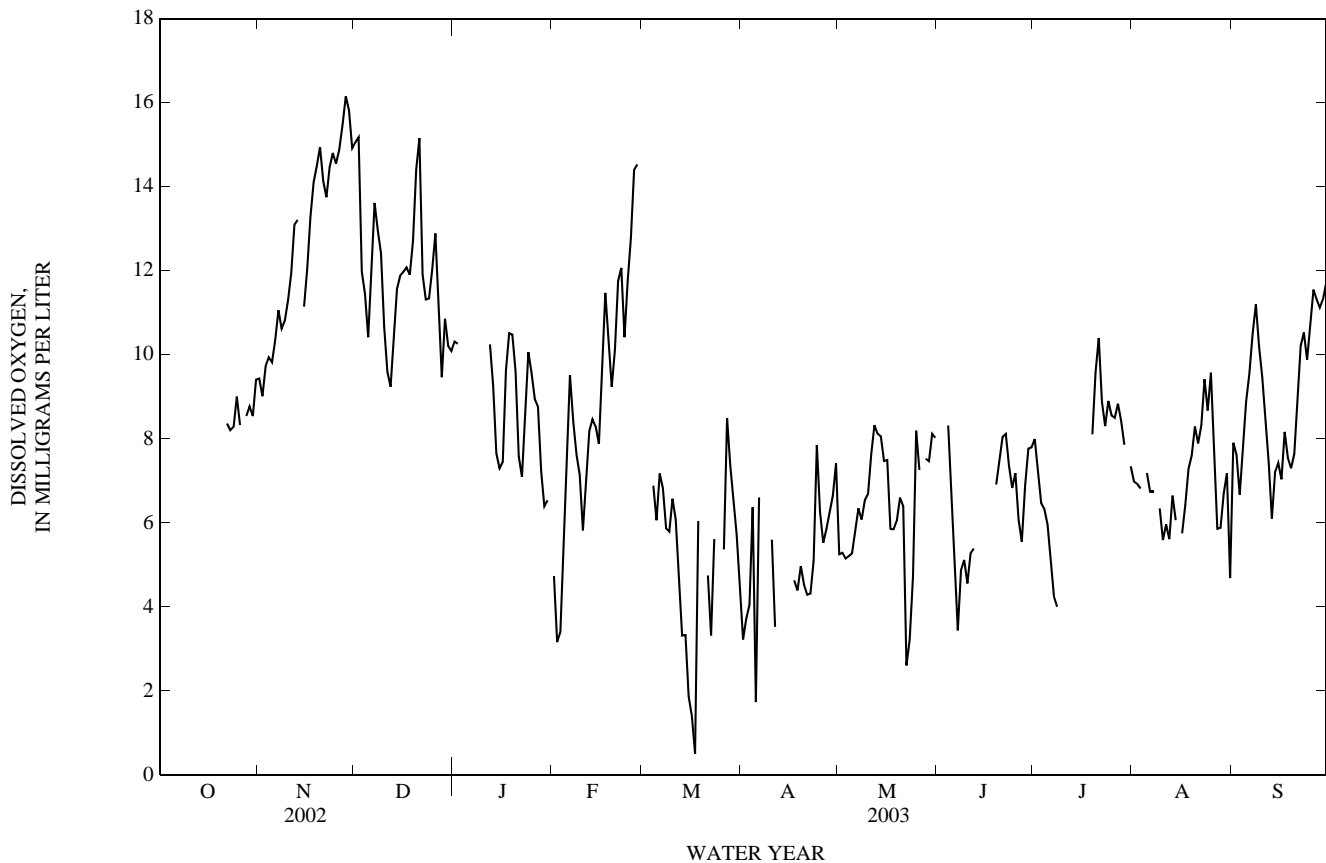
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	10.40	8.42	9.43	17.02	12.98	15.06	10.96	9.81	10.31
2	---	---	---	10.13	7.97	9.02	17.50	13.05	15.18	11.25	9.32	10.27
3	---	---	---	10.32	9.09	9.73	15.32	9.84	11.98	---	---	---
4	---	---	---	11.12	8.93	9.94	12.39	10.08	11.45	---	---	---
5	---	---	---	11.04	9.25	9.82	11.56	9.65	10.42	---	---	---
6	---	---	---	12.25	8.83	10.35	14.09	10.16	12.12	---	---	---
7	---	---	---	12.85	9.95	11.06	17.39	11.83	13.62	---	---	---
8	---	---	---	13.01	9.32	10.62	17.39	11.39	12.96	---	---	---
9	---	---	---	13.72	9.07	10.81	13.19	11.73	12.42	---	---	---
10	---	---	---	14.62	9.12	11.30	11.73	9.25	10.65	---	---	---
11	---	---	---	14.96	9.83	11.95	10.27	9.02	9.60	---	---	---
12	---	---	---	16.65	10.65	13.10	10.09	8.84	9.24	11.07	9.61	10.25
13	---	---	---	16.58	11.67	13.21	13.72	8.74	10.38	10.20	8.06	9.27
14	---	---	---	---	---	---	13.06	10.30	11.57	8.30	7.04	7.65
15	---	---	---	13.56	9.22	11.15	13.23	10.96	11.88	8.17	6.69	7.30
16	---	---	---	14.72	9.91	12.06	14.05	10.19	11.97	9.02	6.02	7.45
17	---	---	---	15.41	11.53	13.28	14.50	10.21	12.08	11.15	8.27	9.63
18	---	---	---	16.86	11.65	14.11	14.20	9.58	11.91	11.32	9.92	10.51
19	---	---	---	16.80	12.54	14.50	15.67	9.95	12.71	11.30	9.96	10.48
20	---	---	---	17.40	13.01	14.94	17.05	11.84	14.41	10.50	8.55	9.61
21	---	---	---	16.17	12.68	14.14	20.27	13.23	15.16	8.56	6.82	7.58
22	9.11	8.04	8.37	16.16	11.54	13.75	15.30	9.12	11.91	7.85	6.33	7.10
23	8.74	7.82	8.21	16.24	12.76	14.47	12.17	9.33	11.32	10.15	7.70	8.81
24	9.42	7.36	8.29	16.59	13.07	14.81	11.71	11.12	11.34	10.51	9.63	10.06
25	9.45	8.33	9.01	15.81	12.74	14.55	13.20	11.10	12.03	10.05	9.17	9.57
26	9.18	7.88	8.33	16.61	13.35	14.88	13.85	12.24	12.89	9.27	8.69	8.95
27	---	---	---	17.17	13.16	15.45	12.95	8.74	11.15	9.41	8.09	8.77
28	9.50	7.37	8.54	17.80	14.28	16.16	10.53	8.58	9.47	8.09	6.48	7.23
29	9.52	8.02	8.77	17.52	14.16	15.82	12.49	9.49	10.86	6.78	5.94	6.39
30	9.45	7.97	8.54	18.07	12.95	14.92	10.86	9.59	10.21	8.87	5.60	6.54
31	11.02	8.27	9.41	---	---	---	10.53	9.71	10.09	---	---	---
MONTH	---	---	---	---	---	---	20.27	8.58	11.87	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	5.70	3.72	4.73	---	---	---	3.80	2.55	3.23	5.77	4.67	5.25
2	5.18	1.42	3.16	---	---	---	7.35	1.93	3.72	7.58	4.24	5.29
3	5.97	0.50	3.39	---	---	---	5.43	2.54	4.05	5.72	4.65	5.15
4	8.23	3.11	5.68	9.22	5.71	6.89	10.36	2.02	6.37	6.43	4.49	5.21
5	10.39	5.39	7.29	6.64	5.56	6.06	10.48	0.38	1.74	7.01	4.29	5.28
6	10.63	8.41	9.52	7.82	6.08	7.18	9.93	1.32	6.60	7.46	4.72	5.84
7	8.98	7.60	8.40	7.73	5.61	6.82	---	---	---	8.08	5.12	6.34
8	8.31	6.69	7.63	6.26	5.11	5.87	---	---	---	7.65	4.90	6.08
9	8.41	5.96	7.14	6.43	4.77	5.79	---	---	---	8.82	4.95	6.54
10	6.89	4.53	5.82	8.74	5.20	6.57	6.20	4.43	5.60	8.50	5.52	6.69
11	12.11	4.26	7.05	6.88	4.92	6.08	4.57	2.00	3.52	10.48	5.61	7.64
12	10.90	6.88	8.19	5.49	3.56	4.62	---	---	---	11.43	6.19	8.32
13	9.68	7.24	8.47	4.36	2.55	3.32	---	---	---	10.66	6.34	8.13
14	9.07	7.16	8.29	4.83	2.49	3.33	---	---	---	10.64	6.13	8.06
15	9.28	6.74	7.88	3.00	0.01	1.86	---	---	---	9.20	5.88	7.47
16	12.22	7.92	9.92	2.63	0.10	1.40	---	---	---	9.09	5.40	7.50
17	13.63	10.15	11.47	1.64	0.00	0.51	5.00	4.40	4.63	8.64	4.51	5.86
18	12.37	9.00	10.38	9.32	0.00	6.05	4.76	4.07	4.39	8.73	3.88	5.85
19	10.93	7.70	9.24	---	---	---	5.72	4.41	4.97	8.55	4.57	6.05
20	11.92	8.38	10.12	---	---	---	5.18	4.06	4.53	9.40	3.99	6.60
21	12.88	11.03	11.76	5.40	1.68	4.75	5.16	3.65	4.29	7.29	4.46	6.40
22	12.91	10.70	12.07	8.89	1.21	3.32	5.34	3.58	4.32	4.46	1.81	2.61
23	11.31	9.70	10.42	8.41	2.40	5.62	10.18	4.34	5.10	5.01	1.75	3.21
24	13.79	9.71	11.77	---	---	---	9.83	5.93	7.85	6.74	3.36	4.72
25	14.32	11.28	12.79	---	---	---	7.42	5.62	6.26	9.49	4.92	8.19
26	17.41	11.88	14.41	10.02	2.73	5.37	6.53	4.87	5.53	8.13	6.45	7.26
27	15.87	13.10	14.53	10.05	7.06	8.49	7.62	4.59	5.85	---	---	---
28	---	---	---	7.59	6.78	7.37	7.80	5.22	6.26	8.48	6.85	7.53
29	---	---	---	7.02	5.88	6.50	8.23	5.56	6.65	8.73	6.57	7.47
30	---	---	---	6.37	4.75	5.72	9.67	5.39	7.41	9.47	7.18	8.12
31	---	---	---	5.32	3.40	4.42	---	---	---	9.07	7.36	8.03
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	11.95	5.72	7.99	9.16	5.09	6.99	8.52	7.07	7.91
2	---	---	---	11.63	5.54	7.24	8.71	5.24	6.93	9.35	6.35	7.62
3	---	---	---	8.34	5.18	6.47	8.75	5.14	6.82	8.51	5.46	6.67
4	10.42	6.56	8.32	9.12	4.45	6.33	---	---	---	11.18	5.22	7.67
5	7.52	5.59	6.67	8.80	3.90	5.96	8.98	5.74	7.19	13.90	5.87	8.89
6	5.82	4.00	5.21	7.18	3.71	5.13	9.42	4.45	6.74	13.75	6.11	9.55
7	4.00	2.87	3.44	5.32	3.20	4.25	8.62	4.67	6.74	14.44	6.90	10.51
8	6.66	2.78	4.87	5.99	2.72	4.01	---	---	---	15.15	7.77	11.20
9	6.33	3.82	5.12	---	---	---	7.88	5.03	6.35	17.15	7.56	10.19
10	5.98	2.89	4.56	---	---	---	6.75	4.49	5.59	12.99	6.52	9.47
11	6.33	4.20	5.28	---	---	---	8.56	3.95	5.97	10.58	6.38	8.36
12	6.02	4.76	5.39	---	---	---	7.48	4.50	5.61	8.54	6.25	7.45
13	---	---	---	---	---	---	7.84	5.54	6.65	6.95	4.93	6.11
14	---	---	---	---	---	---	8.18	4.99	6.07	8.11	6.40	7.20
15	---	---	---	---	---	---	---	---	---	8.30	5.78	7.42
16	---	---	---	---	---	---	8.20	3.86	5.75	9.03	5.64	7.04
17	---	---	---	---	---	---	9.02	4.29	6.43	10.83	6.30	8.17
18	---	---	---	---	---	---	10.16	4.74	7.29	9.76	6.47	7.55
19	8.61	5.97	6.91	11.41	5.54	8.11	10.51	4.94	7.61	8.90	6.38	7.30
20	10.16	5.95	7.49	14.77	5.86	9.59	11.62	5.24	8.29	10.25	6.30	7.64
21	11.00	6.07	8.05	15.30	6.47	10.40	10.72	4.87	7.89	12.29	6.59	8.94
22	11.40	6.01	8.12	11.84	6.67	8.87	11.28	5.21	8.32	14.36	7.32	10.22
23	10.10	5.94	7.36	11.61	5.86	8.30	11.92	6.91	9.42	14.85	7.69	10.53
24	8.93	5.51	6.83	12.77	5.74	8.90	11.34	5.55	8.68	15.09	7.05	9.88
25	10.09	5.34	7.19	11.86	6.45	8.56	12.92	6.09	9.57	15.86	6.73	10.75
26	7.67	4.70	6.07	11.36	5.95	8.50	11.67	5.93	7.85	15.30	8.01	11.55
27	7.54	4.17	5.55	11.31	6.27	8.84	7.49	4.67	5.86	14.43	7.79	11.32
28	9.76	4.63	6.90	10.36	6.48	8.42	8.84	3.87	5.88	13.78	8.44	11.12
29	9.80	5.45	7.77	11.91	5.83	7.86	10.35	3.98	6.70	13.69	8.73	11.33
30	10.36	5.97	7.80	---	---	---	11.11	4.56	7.18	13.80	9.21	11.72
31	---	---	---	9.17	5.59	7.35	7.53	3.15	4.68	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	17.15	4.93	9.04



08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Eules, TX—Continued

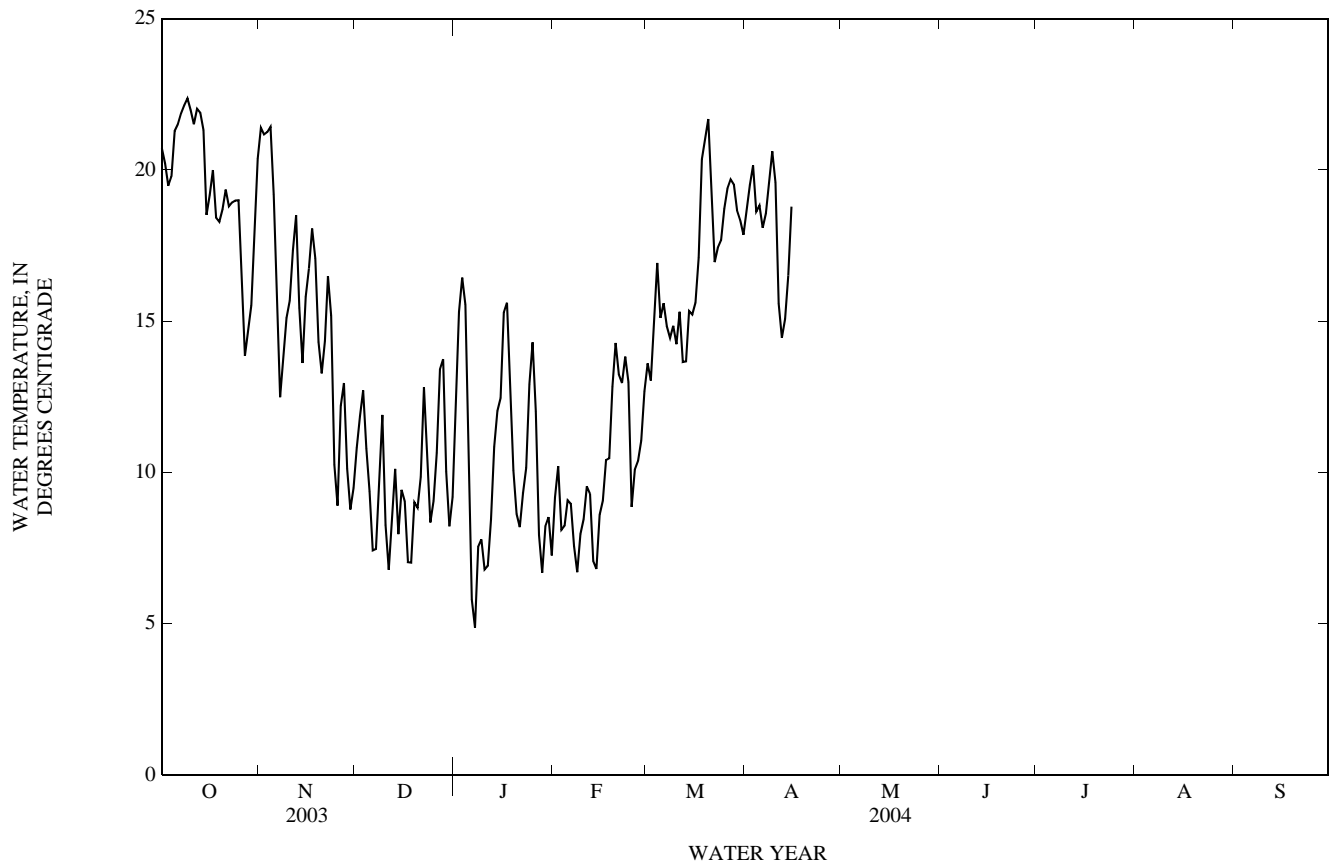
 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	22.62	19.07	20.71	23.10	20.34	21.40	12.81	8.97	10.82	14.05	10.92	12.41
2	21.85	18.88	20.22	22.16	20.34	21.18	12.91	10.87	11.85	18.11	13.42	15.31
3	21.29	17.88	19.48	22.07	20.70	21.25	14.33	11.56	12.71	17.54	15.13	16.44
4	21.88	17.65	19.79	22.73	20.45	21.43	12.64	9.43	10.79	17.07	11.90	15.54
5	22.31	18.80	21.29	21.40	16.45	19.18	11.03	8.19	9.37	11.90	7.22	9.43
6	22.63	20.93	21.51	16.45	13.94	15.04	9.35	5.92	7.43	7.22	4.49	5.80
7	24.44	19.99	21.87	13.94	10.89	12.49	9.61	5.70	7.47	6.02	3.77	4.88
8	23.82	20.48	22.14	15.22	12.74	13.76	11.53	7.78	9.54	10.48	5.59	7.55
9	22.88	20.43	22.36	15.46	14.78	15.11	13.07	9.48	11.90	9.91	6.39	7.79
10	23.75	21.25	21.98	17.14	14.53	15.68	9.87	6.94	8.27	9.09	5.21	6.79
11	23.21	19.77	21.51	19.37	15.67	17.35	8.53	5.21	6.78	9.15	4.99	6.91
12	23.14	21.02	22.03	20.03	17.42	18.51	12.63	6.33	8.26	10.28	6.74	8.44
13	23.70	20.61	21.90	17.42	13.96	15.44	11.01	8.24	10.12	13.45	9.16	10.85
14	23.15	19.68	21.32	14.03	12.96	13.62	10.19	6.20	7.96	14.32	10.55	12.03
15	20.81	16.24	18.51	17.68	14.03	15.81	11.76	7.78	9.43	14.44	11.49	12.46
16	22.21	16.84	19.17	18.47	15.10	16.74	10.50	7.39	9.05	16.03	14.40	15.28
17	22.10	18.41	20.00	18.98	17.37	18.07	8.74	5.09	7.04	16.80	14.94	15.61
18	20.90	16.35	18.42	18.09	15.58	17.07	9.09	5.64	7.02	15.16	11.43	13.43
19	21.06	16.04	18.29	15.73	13.07	14.32	13.70	4.85	9.02	11.43	8.76	10.07
20	21.51	16.51	18.70	15.26	11.62	13.28	10.74	7.03	8.83	10.47	7.25	8.63
21	21.98	17.35	19.35	16.68	12.74	14.34	12.44	7.70	9.86	10.21	6.61	8.20
22	20.90	17.17	18.79	18.65	14.80	16.49	14.99	11.38	12.82	11.74	7.31	9.31
23	21.87	16.85	18.93	17.80	11.48	15.18	12.37	9.29	10.84	11.94	8.14	10.15
24	21.81	16.71	18.99	12.03	8.73	10.26	10.29	6.83	8.35	15.27	11.51	12.92
25	20.69	17.51	19.00	10.21	7.63	8.91	11.57	7.03	9.06	15.87	13.12	14.31
26	17.51	14.22	15.99	15.11	9.71	12.20	12.23	9.45	10.65	13.90	9.07	12.03
27	15.85	12.06	13.85	14.53	11.27	12.95	14.38	12.23	13.41	9.99	6.20	7.93
28	17.41	12.45	14.66	11.93	8.69	10.12	15.66	11.44	13.74	9.24	4.65	6.69
29	18.00	13.43	15.53	10.91	7.00	8.78	11.88	8.50	10.03	10.10	6.90	8.22
30	20.28	15.88	17.93	12.19	7.60	9.49	10.37	6.70	8.22	10.53	7.36	8.53
31	22.04	18.92	20.38	---	---	---	11.51	7.10	9.19	8.15	6.18	7.26
MONTH	24.44	12.06	19.50	23.10	7.00	15.18	15.66	4.85	9.67	18.11	3.77	10.36
FEBRUARY			MARCH			APRIL			MAY			
1	11.94	8.15	9.18	16.15	11.32	13.61	22.92	15.12	18.68	---	---	---
2	11.77	8.70	10.21	14.04	11.34	13.04	22.50	17.04	19.50	---	---	---
3	9.57	6.76	8.10	16.61	13.78	15.02	23.58	17.90	20.15	---	---	---
4	11.16	6.56	8.24	18.15	15.26	16.93	20.85	16.56	18.62	---	---	---
5	9.97	7.20	9.08	16.95	13.39	15.11	22.09	17.01	18.82	---	---	---
6	10.40	7.72	8.97	19.02	12.63	15.59	19.71	16.51	18.09	---	---	---
7	10.42	5.63	7.57	17.75	12.60	14.83	20.32	17.16	18.56	---	---	---
8	7.61	5.47	6.70	17.60	11.12	14.44	23.43	16.54	19.56	---	---	---
9	8.75	7.28	7.97	18.36	12.47	14.85	24.35	17.85	20.62	---	---	---
10	9.33	7.72	8.46	17.72	11.55	14.24	21.53	17.41	19.59	---	---	---
11	11.39	8.44	9.55	18.22	13.59	15.31	17.41	13.96	15.58	---	---	---
12	11.34	8.10	9.30	15.03	12.91	13.65	15.37	13.58	14.45	---	---	---
13	8.11	6.17	7.08	14.93	12.33	13.67	19.10	12.09	15.07	---	---	---
14	9.36	5.47	6.81	16.70	14.76	15.34	21.36	12.82	16.52	---	---	---
15	11.17	6.71	8.60	15.95	14.45	15.22	23.20	15.58	18.79	---	---	---
16	11.10	6.74	9.07	18.80	13.04	15.61	---	---	---	---	---	---
17	12.90	8.22	10.41	21.22	13.45	17.10	---	---	---	---	---	---
18	12.41	8.35	10.47	24.24	17.29	20.35	---	---	---	---	---	---
19	15.85	10.64	12.84	22.83	19.80	21.00	---	---	---	---	---	---
20	16.85	12.49	14.28	24.26	19.99	21.68	---	---	---	---	---	---
21	16.35	10.67	13.25	22.05	17.19	19.76	---	---	---	---	---	---
22	15.93	10.27	12.96	19.22	15.43	16.95	---	---	---	---	---	---
23	15.16	12.72	13.83	20.85	14.67	17.44	---	---	---	---	---	---
24	14.25	9.64	12.98	18.08	17.13	17.68	---	---	---	---	---	---
25	10.05	7.74	8.86	20.49	17.48	18.71	---	---	---	---	---	---
26	13.29	8.06	10.10	20.34	18.69	19.38	---	---	---	---	---	---
27	12.98	7.58	10.38	21.31	18.51	19.69	---	---	---	---	---	---
28	11.68	10.09	11.05	21.12	18.15	19.52	---	---	---	---	---	---
29	14.69	11.42	12.69	22.85	15.66	18.66	---	---	---	---	---	---
30	---	---	---	22.70	15.40	18.34	---	---	---	---	---	---
31	---	---	---	22.29	14.67	17.86	---	---	---	---	---	---
MONTH	16.85	5.47	9.97	24.26	11.12	16.79	---	---	---	---	---	---

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

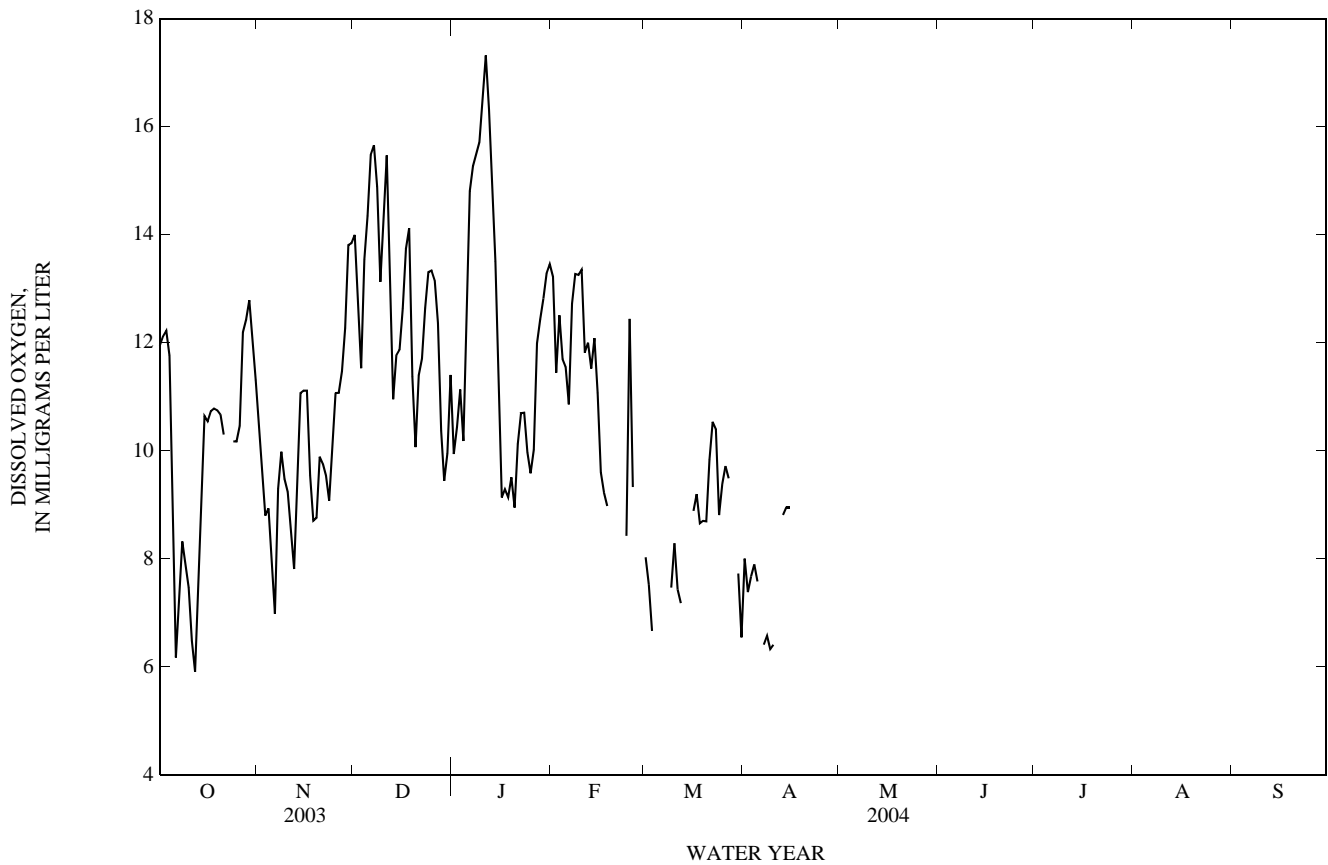
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.89	9.60	11.95	13.44	7.89	10.42	17.10	11.07	14.00	11.91	8.08	9.94
2	13.51	9.96	12.12	12.21	7.08	9.54	14.12	10.63	12.63	15.18	7.25	10.44
3	13.51	10.44	12.22	11.24	6.56	8.80	14.41	9.31	11.53	15.33	7.72	11.14
4	13.16	9.96	11.76	12.46	6.01	8.93	17.15	10.20	13.54	13.58	6.77	10.18
5	12.04	6.31	8.99	9.73	5.86	7.91	17.50	11.14	14.35	16.91	8.67	12.13
6	7.45	5.29	6.18	8.43	5.36	6.98	18.30	12.57	15.48	19.47	11.74	14.81
7	10.00	4.90	7.24	11.86	4.75	9.30	18.20	12.84	15.66	18.66	12.57	15.28
8	10.69	6.08	8.32	10.64	9.51	9.98	17.60	12.50	14.89	18.67	12.17	15.49
9	9.02	6.84	7.90	9.91	8.99	9.48	16.50	9.73	13.13	18.00	13.34	15.72
10	9.38	6.61	7.47	10.25	8.61	9.24	17.68	11.28	14.49	18.33	14.33	16.51
11	8.48	5.26	6.48	10.16	6.76	8.51	17.90	12.68	15.47	19.03	16.03	17.32
12	8.54	3.96	5.91	10.24	6.25	7.81	15.42	10.63	12.84	18.78	14.35	16.33
13	11.56	3.72	7.31	12.60	6.80	9.39	11.70	10.44	10.95	17.83	12.32	14.71
14	12.92	5.59	8.79	14.15	8.48	11.07	13.07	10.54	11.77	17.77	10.29	13.51
15	14.21	7.42	10.65	14.39	8.88	11.12	13.81	10.70	11.87	14.56	8.08	11.36
16	13.41	7.95	10.55	14.76	7.95	11.11	15.12	10.67	12.64	10.15	7.15	9.14
17	13.06	8.18	10.73	12.61	8.09	9.55	15.68	11.87	13.74	10.14	7.87	9.29
18	12.50	8.91	10.78	9.45	7.91	8.71	16.65	11.86	14.12	10.10	7.85	9.14
19	12.38	9.17	10.75	9.85	7.87	8.76	14.00	8.78	11.38	10.79	8.79	9.51
20	12.16	9.24	10.67	11.17	9.19	9.89	12.07	8.48	10.07	10.13	8.24	8.95
21	11.78	8.94	10.30	11.13	8.83	9.76	13.49	9.57	11.40	12.39	8.48	10.13
22	---	---	---	11.55	8.40	9.55	14.76	9.46	11.70	12.27	9.86	10.70
23	---	---	---	10.07	7.68	9.08	16.35	9.61	12.64	12.51	9.54	10.71
24	13.38	7.48	10.18	11.20	8.67	9.94	17.44	11.63	13.31	11.24	9.36	9.97
25	13.44	7.53	10.18	12.71	9.90	11.07	16.06	11.10	13.34	10.62	8.96	9.58
26	13.00	7.91	10.46	13.32	9.61	11.07	15.12	11.22	13.15	11.63	8.81	10.02
27	15.03	10.30	12.20	14.42	8.86	11.47	15.06	10.61	12.37	14.30	10.53	11.99
28	15.34	9.33	12.43	15.00	9.62	12.27	11.49	8.67	10.37	14.55	10.96	12.43
29	16.15	10.31	12.79	17.38	11.00	13.81	12.13	7.87	9.44	15.00	11.43	12.82
30	14.61	9.32	11.97	17.33	11.20	13.85	12.58	7.83	9.96	16.64	10.71	13.28
31	14.07	8.98	11.31	---	---	---	14.83	8.52	11.41	15.47	11.39	13.46
MONTH	---	---	---	17.38	4.75	9.95	18.30	7.83	12.70	19.47	6.77	12.13
	FEBRUARY			MARCH			APRIL			MAY		
1	15.73	11.34	13.23	8.90	6.40	8.03	12.88	4.61	8.01	---	---	---
2	12.90	10.65	11.45	9.45	6.18	7.52	10.66	3.97	7.39	---	---	---
3	14.90	10.96	12.51	8.66	4.84	6.67	9.64	5.76	7.68	---	---	---
4	13.71	10.57	11.70	---	---	---	12.03	4.06	7.90	---	---	---
5	12.97	10.07	11.56	---	---	---	10.52	4.90	7.58	---	---	---
6	12.57	9.57	10.86	---	---	---	---	---	---	---	---	---
7	15.18	11.13	12.73	---	---	---	7.39	5.46	6.41	---	---	---
8	15.54	11.61	13.27	---	---	---	8.42	5.17	6.58	---	---	---
9	15.15	11.76	13.26	8.50	4.91	7.47	8.89	4.47	6.33	---	---	---
10	15.61	11.24	13.36	9.23	7.28	8.29	7.67	4.91	6.41	---	---	---
11	13.34	10.78	11.82	8.85	6.65	7.43	---	---	---	---	---	---
12	13.13	10.77	12.00	8.22	6.15	7.18	9.50	---	---	---	---	---
13	12.79	10.46	11.52	---	---	---	10.38	7.89	8.82	---	---	---
14	13.83	11.28	12.09	---	---	---	11.14	7.47	8.95	---	---	---
15	12.26	9.09	11.07	---	---	---	12.03	6.96	8.95	---	---	---
16	12.04	8.08	9.60	10.88	7.50	8.89	---	---	---	---	---	---
17	11.40	7.76	9.22	11.33	7.88	9.20	---	---	---	---	---	---
18	11.93	7.68	8.98	11.46	7.04	8.66	---	---	---	---	---	---
19	---	---	---	11.44	6.72	8.70	---	---	---	---	---	---
20	---	---	---	11.86	6.85	8.70	---	---	---	---	---	---
21	---	---	---	12.94	7.05	9.84	---	---	---	---	---	---
22	---	---	---	13.76	8.50	10.54	---	---	---	---	---	---
23	---	---	---	13.15	8.14	10.40	---	---	---	---	---	---
24	12.68	6.06	8.43	10.55	7.75	8.81	---	---	---	---	---	---
25	13.48	10.32	12.44	11.85	7.39	9.39	---	---	---	---	---	---
26	10.45	7.13	9.33	11.78	8.12	9.72	---	---	---	---	---	---
27	---	---	---	12.18	7.62	9.49	---	---	---	---	---	---
28	---	---	---	11.33	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	11.93	4.67	7.73	---	---	---	---	---	---
31	---	---	---	9.43	4.40	6.55	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049556 Unnamed Tributary Big Bear Creek (Of1 19) near Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



08049562 Blessing Branch at Euless, TX

LOCATION.--Lat 32°50'51.6", long 97°04'31.7", Tarrant County, Hydrologic Unit 12030102, located in Euless Texas in park off Midway Drive.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 2003 to June 2004 (stage only)(discontinued).

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.62 ft, May 27; minimum gage height, 0.46 ft, Nov. 13, Dec. 13, 14, 28-30.

EXTREMES FOR CURRENT YEAR (PRECIPITATION).--Maximum daily precipitation, 3.00 in, Jan. 16.

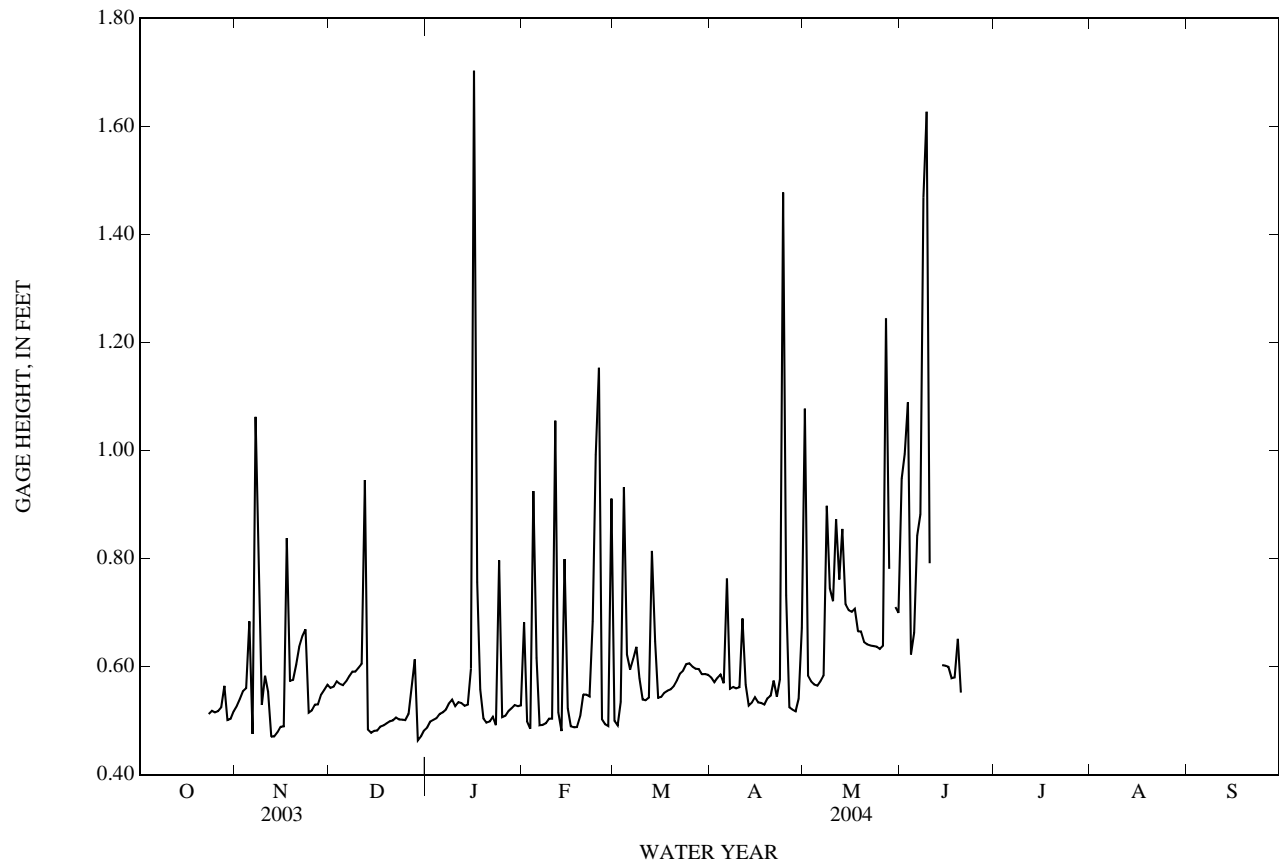
PERIOD OF RECORD (PRECIPITATION).--Oct. 2003 to Apr. 2004 (discontinued).

INSTRUMENTATION (PRECIPITATION).--Rain gage since Oct. 2003.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.53	0.56	0.49	0.68	0.50	0.58	1.08	0.95	---	---	---
2	---	0.54	0.56	0.50	0.50	0.49	0.57	0.58	0.99	---	---	---
3	---	0.55	0.57	0.50	0.49	0.53	0.58	0.57	1.09	---	---	---
4	---	0.56	0.57	0.50	0.92	0.93	0.59	0.57	0.62	---	---	---
5	---	0.68	0.57	0.51	0.62	0.62	0.57	0.56	0.66	---	---	---
6	---	0.48	0.57	0.52	0.49	0.59	0.76	0.57	0.84	---	---	---
7	---	1.06	0.58	0.52	0.49	0.61	0.56	0.58	0.88	---	---	---
8	---	0.71	0.59	0.53	0.50	0.64	0.56	0.90	1.47	---	---	---
9	---	0.53	0.59	0.54	0.50	0.58	0.56	0.74	1.63	---	---	---
10	---	0.58	0.60	0.53	0.50	0.54	0.56	0.72	0.79	---	---	---
11	---	0.55	0.60	0.53	1.06	0.54	0.69	0.87	---	---	---	---
12	---	0.47	0.95	0.53	0.52	0.54	0.57	0.76	---	---	---	---
13	---	0.47	0.48	0.53	0.48	0.81	0.53	0.85	---	---	---	---
14	---	0.48	0.48	0.53	0.80	0.65	0.53	0.72	0.60	---	---	---
15	---	0.49	0.48	0.60	0.52	0.54	0.54	0.70	0.60	---	---	---
16	---	0.49	0.48	1.70	0.49	0.54	0.53	0.70	0.60	---	---	---
17	---	0.84	0.49	0.76	0.49	0.55	0.53	0.71	0.58	---	---	---
18	---	0.57	0.49	0.56	0.49	0.56	0.53	0.67	0.58	---	---	---
19	---	0.58	0.49	0.50	0.51	0.56	0.54	0.67	0.65	---	---	---
20	---	0.60	0.50	0.50	0.55	0.56	0.55	0.65	0.55	---	---	---
21	---	0.64	0.50	0.50	0.55	0.57	0.57	0.64	---	---	---	---
22	---	0.66	0.51	0.51	0.54	0.59	0.54	0.64	---	---	---	---
23	0.51	0.67	0.50	0.49	0.68	0.59	0.58	0.64	---	---	---	---
24	0.52	0.51	0.50	0.80	0.99	0.60	1.48	0.64	---	---	---	---
25	0.52	0.52	0.50	0.51	1.15	0.61	0.73	0.63	---	---	---	---
26	0.52	0.53	0.51	0.51	0.50	0.60	0.52	0.64	---	---	---	---
27	0.52	0.53	0.56	0.52	0.49	0.60	0.52	1.24	---	---	---	---
28	0.56	0.55	0.61	0.52	0.49	0.60	0.52	0.78	---	---	---	---
29	0.50	0.56	0.46	0.53	0.91	0.59	0.54	---	---	---	---	---
30	0.50	0.57	0.47	0.53	---	0.59	0.67	0.71	---	---	---	---
31	0.52	---	0.48	0.53	---	0.58	---	0.70	---	---	---	---
MEAN	---	0.58	0.54	0.58	0.62	0.59	0.60	---	---	---	---	---
MAX	---	1.06	0.95	1.70	1.15	0.93	1.48	---	---	---	---	---
MIN	---	0.47	0.46	0.49	0.48	0.49	0.52	---	---	---	---	---

08049562 Blessing Branch at Euless, TX—Continued



TRINITY RIVER BASIN

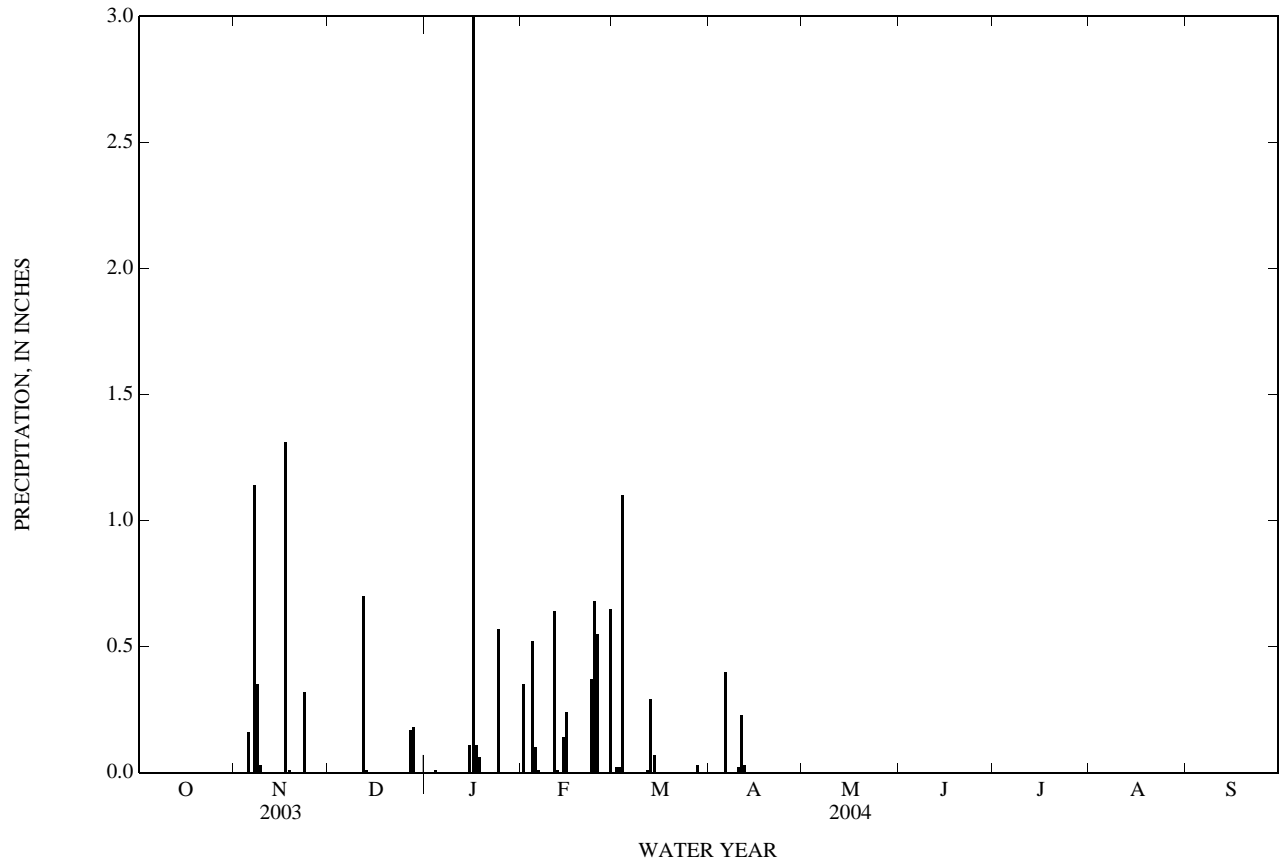
08049562 Blessing Branch at Euless, TX—Continued

 PRECIPITATION, TOTAL, INCHES
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.00	0.00	0.35	e0.00	0.00	---	---	---	---	---
2	---	0.00	0.00	0.00	0.00	0.02	0.00	---	---	---	---	---
3	---	0.00	0.00	0.00	0.00	0.02	0.00	---	---	---	---	---
4	---	0.00	0.00	0.01	0.52	1.10	0.00	---	---	---	---	---
5	---	0.16	0.00	0.00	0.10	0.00	0.00	---	---	---	---	---
6	---	0.00	0.00	0.00	0.01	0.00	0.40	---	---	---	---	---
7	---	1.14	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
8	---	0.35	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
9	---	0.03	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
10	---	0.00	0.00	0.00	0.00	0.00	0.02	---	---	---	---	---
11	---	0.00	0.00	0.00	0.64	0.00	0.23	---	---	---	---	---
12	---	0.00	0.70	0.00	0.01	0.01	0.03	---	---	---	---	---
13	---	0.00	0.01	0.00	0.00	0.29	0.00	---	---	---	---	---
14	---	0.00	0.00	0.00	0.14	0.07	0.00	---	---	---	---	---
15	---	0.00	0.00	0.11	0.24	0.00	0.00	---	---	---	---	---
16	---	0.00	0.00	3.00	0.00	0.00	---	---	---	---	---	---
17	---	1.31	0.00	0.11	0.00	0.00	---	---	---	---	---	---
18	---	0.01	0.00	0.06	0.00	0.00	---	---	---	---	---	---
19	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
20	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
21	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
22	0.00	0.00	0.00	0.00	0.00	e0.00	---	---	---	---	---	---
23	0.00	0.32	0.00	0.00	0.37	0.00	---	---	---	---	---	---
24	0.00	0.00	0.00	0.57	0.68	0.00	---	---	---	---	---	---
25	0.00	0.00	0.00	0.00	0.55	e0.00	---	---	---	---	---	---
26	0.00	0.00	0.00	0.00	0.00	e0.00	---	---	---	---	---	---
27	0.00	0.00	0.17	0.00	0.00	0.00	---	---	---	---	---	---
28	0.00	0.00	0.18	0.00	0.00	0.03	---	---	---	---	---	---
29	0.00	0.00	0.00	0.00	0.65	0.00	---	---	---	---	---	---
30	0.00	0.00	0.00	0.00	---	0.00	---	---	---	---	---	---
31	0.00	---	0.00	0.00	---	0.00	---	---	---	---	---	---
TOTAL	---	3.32	1.06	3.86	4.26	1.54	---	---	---	---	---	---
MEAN	---	0.11	0.03	0.12	0.15	0.05	---	---	---	---	---	---
MAX	---	1.31	0.70	3.00	0.68	1.10	---	---	---	---	---	---
MIN	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---

e Estimated

08049562 Blessing Branch at Euless, TX—Continued



08049562 Blessing Branch at Euless, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2003 to Apr. 2004 (discontinued). Water temperature: Oct. 2003 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 2003.

REMARKS.--Records good. High dissolved oxygen values at this site were verified with field meters. Interruptions in the record were caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.17°C, Nov. 10; minimum, 2.84°C, Feb. 14.

DISSOLVED OXYGEN: Maximum, 21.79 mg/L, Feb. 22; minimum, 0.05 mg/L, Nov. 6.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	22.09	20.99	21.42	14.40	11.32	12.81	15.64	12.35	14.07
2	---	---	---	21.63	20.32	20.99	13.98	12.28	13.19	18.20	15.03	16.35
3	---	---	---	21.53	20.75	21.11	13.75	12.15	13.23	18.44	16.59	17.36
4	---	---	---	22.06	20.56	21.20	12.93	10.59	11.63	17.49	9.74	14.97
5	---	---	---	21.20	15.90	19.06	11.34	8.10	9.49	9.74	6.00	7.59
6	---	---	---	15.90	13.04	14.03	9.70	6.82	8.06	6.00	3.85	4.83
7	---	---	---	13.04	10.31	12.00	10.67	7.43	8.84	6.54	3.74	5.11
8	---	---	---	14.23	12.54	13.38	13.97	9.78	11.69	11.15	5.90	8.38
9	---	---	---	14.59	13.64	14.07	14.70	8.76	12.90	9.50	7.26	8.43
10	---	---	---	22.17	14.23	17.19	9.15	6.73	7.95	9.59	6.02	7.58
11	---	---	---	21.99	18.03	20.09	9.50	6.37	7.83	10.47	6.47	8.27
12	---	---	---	21.11	16.90	19.63	10.47	8.00	9.02	12.00	8.28	10.00
13	---	---	---	16.90	13.83	14.92	9.95	7.55	9.03	14.42	10.74	12.26
14	---	---	---	14.63	13.11	13.74	10.26	6.51	8.18	14.85	11.63	12.95
15	---	---	---	18.43	14.63	16.69	13.47	8.92	10.85	15.54	12.74	13.69
16	---	---	---	18.37	16.08	17.39	10.92	7.50	8.84	16.07	13.81	14.88
17	---	---	---	19.84	18.06	18.64	10.06	6.14	7.93	17.05	14.83	15.55
18	---	---	---	18.28	14.53	16.61	9.85	7.49	8.54	14.83	8.82	11.53
19	---	---	---	15.97	13.29	14.45	9.96	6.95	8.24	10.07	7.42	8.53
20	20.50	---	---	15.80	12.88	14.28	10.06	6.54	8.20	9.90	6.53	7.96
21	---	18.51	---	16.60	13.84	15.13	12.71	8.33	10.32	10.95	7.17	8.72
22	21.15	18.52	19.83	18.81	15.99	17.29	15.65	11.55	13.71	11.66	8.39	9.82
23	20.83	18.06	19.46	18.63	9.80	13.74	11.55	9.12	10.23	13.32	8.94	11.10
24	20.98	18.42	19.66	10.44	8.38	9.32	10.69	7.39	9.01	15.00	12.63	13.56
25	20.17	16.81	19.16	11.19	8.26	9.55	11.25	8.57	9.87	15.74	12.80	14.01
26	16.81	14.38	15.36	15.54	11.17	13.32	13.18	10.29	11.46	13.29	7.26	11.00
27	16.02	13.29	14.62	14.82	10.39	13.11	15.71	13.18	14.59	8.58	5.41	6.89
28	17.37	14.23	15.74	10.87	8.98	9.88	14.88	10.86	12.89	9.59	5.33	7.19
29	18.04	15.38	16.74	11.47	8.31	9.76	10.86	8.63	9.67	11.23	7.75	9.43
30	20.35	17.06	18.73	13.23	9.20	10.95	10.30	7.38	8.74	9.95	7.43	8.60
31	22.10	20.18	21.08	---	---	---	12.62	7.94	10.18	9.22	6.90	8.06
MONTH	---	---	---	22.17	8.26	15.43	15.71	6.14	10.23	18.44	3.74	10.60

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

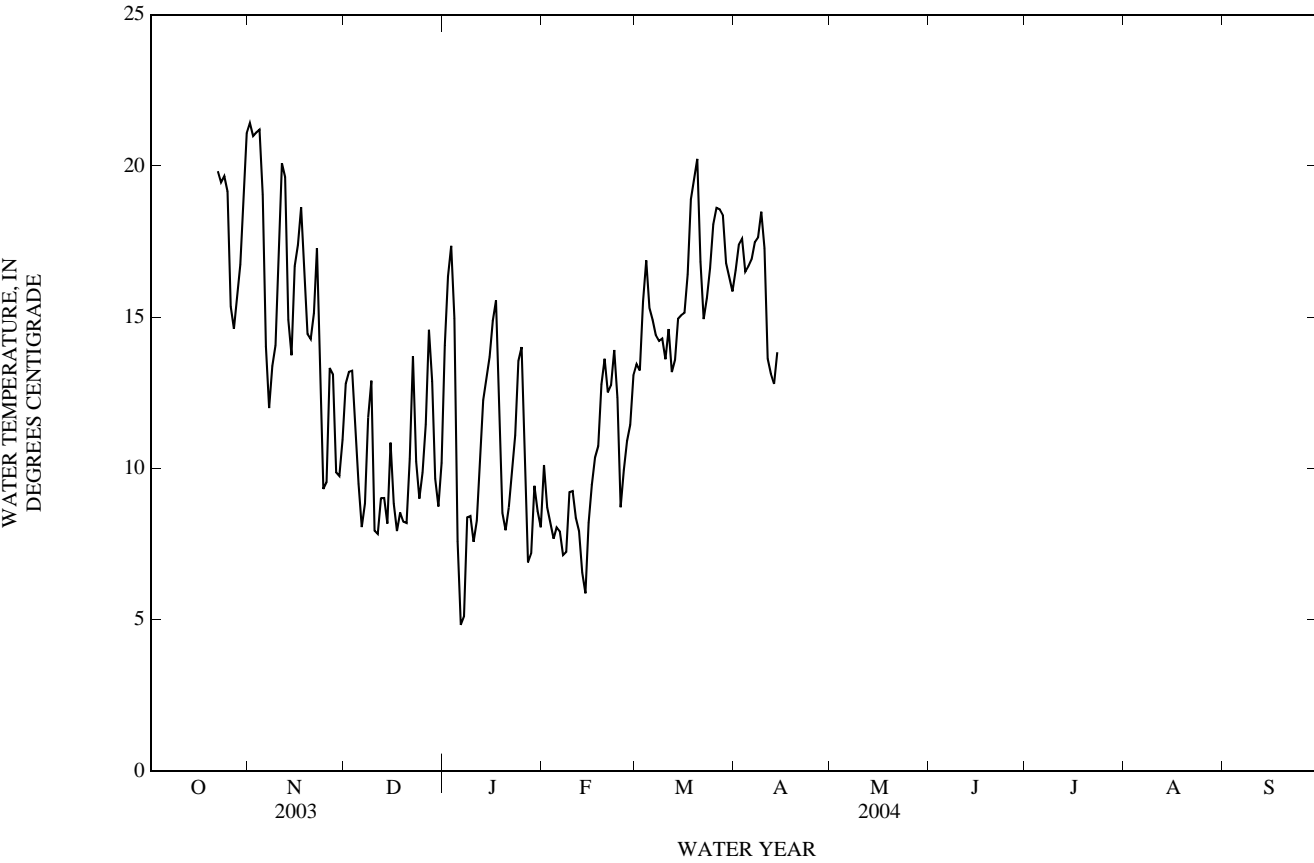
[illegible]

TRINITY RIVER BASIN

08049562 Blessing Branch at Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	21.42	12.81	14.07	10.12	13.44	16.56	---	---	---	---	---
2	---	20.99	13.19	16.35	8.71	13.24	17.40	---	---	---	---	---
3	---	21.11	13.23	17.36	8.19	15.52	17.60	---	---	---	---	---
4	---	21.20	11.63	14.97	7.68	16.88	16.50	---	---	---	---	---
5	---	19.06	9.49	7.59	8.05	15.31	16.69	---	---	---	---	---
6	---	14.03	8.06	4.83	7.92	14.91	16.92	---	---	---	---	---
7	---	12.00	8.84	5.11	7.14	14.40	17.48	---	---	---	---	---
8	---	13.38	11.69	8.38	7.24	14.21	17.64	---	---	---	---	---
9	---	14.07	12.90	8.43	9.22	14.29	18.49	---	---	---	---	---
10	---	17.19	7.95	7.58	9.25	13.61	17.29	---	---	---	---	---
11	---	20.09	7.83	8.27	8.37	14.61	13.63	---	---	---	---	---
12	---	19.63	9.02	10.00	7.93	13.19	13.14	---	---	---	---	---
13	---	14.92	9.03	12.26	6.56	13.60	12.80	---	---	---	---	---
14	---	13.74	8.18	12.95	5.87	14.95	13.85	---	---	---	---	---
15	---	16.69	10.85	13.69	8.21	15.07	---	---	---	---	---	---
16	---	17.39	8.84	14.88	9.45	15.14	---	---	---	---	---	---
17	---	18.64	7.93	15.55	10.36	16.42	---	---	---	---	---	---
18	---	16.61	8.54	11.53	10.74	18.90	---	---	---	---	---	---
19	---	14.45	8.24	8.53	12.78	19.57	---	---	---	---	---	---
20	---	14.28	8.20	7.96	13.63	20.23	---	---	---	---	---	---
21	---	15.13	10.32	8.72	12.52	16.83	---	---	---	---	---	---
22	19.83	17.29	13.71	9.82	12.75	14.94	---	---	---	---	---	---
23	19.46	13.74	10.23	11.10	13.92	15.63	---	---	---	---	---	---
24	19.66	9.32	9.01	13.56	12.34	16.62	---	---	---	---	---	---
25	19.16	9.55	9.87	14.01	8.72	18.07	---	---	---	---	---	---
26	15.36	13.32	11.46	11.00	9.95	18.62	---	---	---	---	---	---
27	14.62	13.11	14.59	6.89	10.91	18.57	---	---	---	---	---	---
28	15.74	9.88	12.89	7.19	11.45	18.37	---	---	---	---	---	---
29	16.74	9.76	9.67	9.43	13.08	16.79	---	---	---	---	---	---
30	18.73	10.95	8.74	8.60	---	16.32	---	---	---	---	---	---
31	21.08	---	10.18	8.06	---	15.85	---	---	---	---	---	---
MEAN	---	15.43	10.23	10.60	9.76	15.94	---	---	---	---	---	---
MAX	---	21.42	14.59	17.36	13.92	20.23	---	---	---	---	---	---
MIN	---	9.32	7.83	4.83	5.87	13.19	---	---	---	---	---	---



08049562 Blessing Branch at Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	2.57	0.58	1.34	5.14	3.30	4.05	3.81	1.61	2.62
2	---	---	---	2.36	0.41	1.24	5.73	2.90	3.88	3.68	0.90	1.79
3	---	---	---	2.23	0.77	1.33	4.90	2.97	3.67	2.95	0.54	1.16
4	---	---	---	2.93	1.21	1.81	5.25	2.54	3.58	1.99	0.64	0.92
5	---	---	---	9.28	1.17	3.83	6.33	2.55	4.32	4.85	0.73	2.54
6	---	---	---	3.77	0.05	0.96	6.75	3.64	4.79	8.30	2.11	5.03
7	---	---	---	12.07	0.11	7.53	7.27	4.22	5.45	10.18	5.22	6.97
8	---	---	---	10.68	5.84	7.60	6.44	3.64	4.91	8.85	4.62	6.39
9	---	---	---	9.94	5.45	7.11	5.59	2.51	3.74	9.57	4.59	6.16
10	---	---	---	6.91	5.11	5.86	5.48	2.90	4.17	10.38	4.30	6.73
11	---	---	---	7.45	3.09	5.54	5.49	2.81	3.91	11.19	4.20	7.01
12	---	---	---	3.09	1.86	2.35	12.45	3.25	7.12	12.59	4.30	7.14
13	---	---	---	2.90	1.24	2.12	9.49	4.58	6.37	12.28	3.36	6.55
14	---	---	---	3.45	1.06	2.18	5.40	4.08	4.74	10.56	2.06	5.28
15	---	---	---	5.16	2.52	3.52	5.53	3.87	4.68	7.86	1.54	3.46
16	---	---	---	3.37	1.62	2.24	4.67	---	---	9.58	2.65	7.18
17	---	---	---	9.24	1.61	4.44	3.49	---	---	9.31	5.63	7.11
18	---	---	---	6.44	5.37	5.87	2.89	1.77	2.12	7.26	5.59	6.52
19	---	---	---	6.51	5.40	5.74	3.41	1.70	2.53	9.68	6.41	8.03
20	---	---	---	6.25	5.22	5.60	4.13	2.82	3.36	10.57	7.56	8.51
21	5.15	3.03	3.66	6.37	4.97	5.53	4.07	2.54	3.15	11.16	7.62	8.73
22	5.65	2.82	3.95	6.40	4.24	5.19	3.71	1.33	2.50	11.31	6.71	8.01
23	5.51	2.84	3.81	10.86	3.80	6.80	3.83	1.23	2.28	11.44	6.62	8.12
24	5.58	2.90	3.87	6.18	4.57	5.50	4.70	2.04	3.16	9.43	5.89	7.34
25	6.59	2.33	3.38	6.57	4.44	5.28	5.78	2.68	3.76	8.49	5.35	6.42
26	6.44	2.26	3.97	5.50	3.49	4.52	4.81	2.57	3.35	10.25	5.22	7.31
27	5.37	3.23	4.07	5.19	2.74	3.69	8.51	2.35	3.10	11.94	6.78	8.66
28	6.68	3.11	4.55	4.17	2.78	3.35	10.04	1.65	3.84	12.37	7.64	9.18
29	5.15	2.46	3.85	4.88	2.97	3.81	3.61	1.67	2.54	12.51	7.06	8.85
30	4.38	1.61	2.89	4.95	3.68	4.20	4.82	2.40	3.46	14.63	6.75	9.44
31	2.91	0.89	1.64	---	---	---	5.38	2.63	3.63	12.51	7.25	9.03
MONTH	---	---	---	12.07	0.05	4.20	12.45	---	---	14.63	0.54	6.39
FEBRUARY			MARCH			APRIL			MAY			
1	11.12	6.72	8.71	11.84	7.05	8.66	14.30	5.69	8.29	---	---	---
2	10.70	6.92	8.52	12.83	6.62	8.91	16.11	4.60	8.73	---	---	---
3	12.4	6.81	8.93	7.97	5.26	6.47	17.97	4.68	9.35	---	---	---
4	12.56	6.93	9.62	9.32	4.47	6.72	17.73	5.50	9.77	---	---	---
5	11.88	7.43	9.72	9.13	6.83	7.67	17.48	5.25	9.34	---	---	---
6	12.23	7.01	8.88	10.42	6.67	8.12	10.28	2.83	6.29	---	---	---
7	12.86	7.57	9.30	12.04	6.86	9.07	4.27	2.15	3.00	---	---	---
8	13.24	7.17	9.38	12.78	7.28	9.50	5.11	1.90	3.04	---	---	---
9	11.36	7.10	8.57	13.62	7.10	9.69	4.67	1.59	2.77	---	---	---
10	14.87	7.25	10.12	14.85	7.50	10.35	3.47	1.58	2.37	---	---	---
11	11.79	7.72	10.68	17.12	7.31	11.16	9.31	2.34	4.69	---	---	---
12	13.01	7.76	9.77	14.69	7.81	10.81	7.22	3.69	5.01	---	---	---
13	13.23	7.42	9.48	10.51	7.53	9.15	6.11	3.61	4.48	---	---	---
14	13.61	8.01	10.70	11.02	6.81	8.42	5.94	3.53	4.44	---	---	---
15	12.50	7.64	9.67	11.55	5.82	7.87	---	---	---	---	---	---
16	15.07	6.75	9.66	14.64	5.76	9.11	---	---	---	---	---	---
17	17.39	6.47	10.14	15.47	5.92	9.15	---	---	---	---	---	---
18	18.15	6.40	10.82	16.31	4.50	8.98	---	---	---	---	---	---
19	19.04	6.33	10.67	16.54	4.29	8.87	---	---	---	---	---	---
20	20.30	5.16	10.98	16.66	4.41	9.18	---	---	---	---	---	---
21	21.09	5.83	11.48	20.20	4.77	10.56	---	---	---	---	---	---
22	21.79	6.02	11.82	20.67	6.57	11.84	---	---	---	---	---	---
23	16.60	4.15	7.94	20.07	6.74	11.75	---	---	---	---	---	---
24	11.65	5.81	8.40	12.65	5.55	7.86	---	---	---	---	---	---
25	12.02	8.86	11.09	16.71	5.29	9.17	---	---	---	---	---	---
26	12.50	8.47	9.70	13.89	4.80	7.87	---	---	---	---	---	---
27	13.59	7.72	9.88	15.91	4.57	8.19	---	---	---	---	---	---
28	14.41	7.17	9.82	12.76	3.98	7.34	---	---	---	---	---	---
29	10.51	7.03	8.42	15.83	3.49	7.85	---	---	---	---	---	---
30	---	---	---	15.87	4.79	8.75	---	---	---	---	---	---
31	---	---	---	16.25	5.09	9.20	---	---	---	---	---	---
MONTH	21.79	4.15	9.75	20.67	3.49	8.98	---	---	---	---	---	---

08049562 Blessing Branch at Euless, TX—Continued

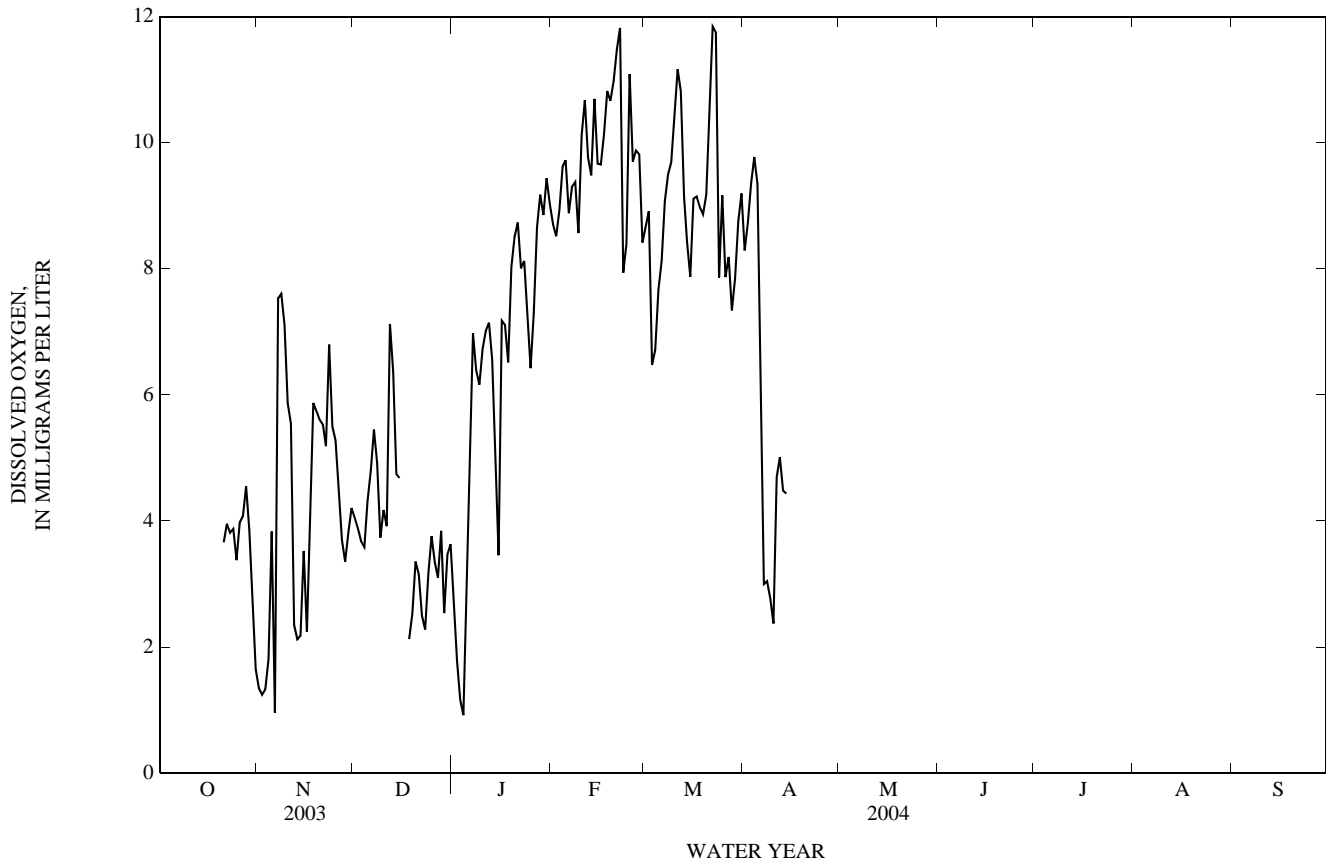
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

08049562 Blessing Branch at Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.34	4.05	2.62	8.71	8.66	8.29	---	---	---	---	---
2	---	1.24	3.88	1.79	8.52	8.91	8.73	---	---	---	---	---
3	---	1.33	3.67	1.16	8.93	6.47	9.35	---	---	---	---	---
4	---	1.81	3.58	0.92	9.62	6.72	9.77	---	---	---	---	---
5	---	3.83	4.32	2.54	9.72	7.67	9.34	---	---	---	---	---
6	---	0.96	4.79	5.03	8.88	8.12	6.29	---	---	---	---	---
7	---	7.53	5.45	6.97	9.30	9.07	3.00	---	---	---	---	---
8	---	7.60	4.91	6.39	9.38	9.50	3.04	---	---	---	---	---
9	---	7.11	3.74	6.16	8.57	9.69	2.77	---	---	---	---	---
10	---	5.86	4.17	6.73	10.12	10.35	2.37	---	---	---	---	---
11	---	5.54	3.91	7.01	10.68	11.16	4.69	---	---	---	---	---
12	---	2.35	7.12	7.14	9.77	10.81	5.01	---	---	---	---	---
13	---	2.12	6.37	6.55	9.48	9.15	4.48	---	---	---	---	---
14	---	2.18	4.74	5.28	10.70	8.42	4.44	---	---	---	---	---
15	---	3.52	4.68	3.46	9.67	7.87	---	---	---	---	---	---
16	---	2.24	---	7.18	9.66	9.11	---	---	---	---	---	---
17	---	4.44	---	7.11	10.14	9.15	---	---	---	---	---	---
18	---	5.87	2.12	6.52	10.82	8.98	---	---	---	---	---	---
19	---	5.74	2.53	8.03	10.67	8.87	---	---	---	---	---	---
20	---	5.60	3.36	8.51	10.98	9.18	---	---	---	---	---	---
21	3.66	5.53	3.15	8.73	11.48	10.56	---	---	---	---	---	---
22	3.95	5.19	2.50	8.01	11.82	11.84	---	---	---	---	---	---
23	3.81	6.80	2.28	8.12	7.94	11.75	---	---	---	---	---	---
24	3.87	5.50	3.16	7.34	8.40	7.86	---	---	---	---	---	---
25	3.38	5.28	3.76	6.42	11.09	9.17	---	---	---	---	---	---
26	3.97	4.52	3.35	7.31	9.70	7.87	---	---	---	---	---	---
27	4.07	3.69	3.10	8.66	9.88	8.19	---	---	---	---	---	---
28	4.55	3.35	3.84	9.18	9.82	7.34	---	---	---	---	---	---
29	3.85	3.81	2.54	8.85	8.42	7.85	---	---	---	---	---	---
30	2.89	4.20	3.46	9.44	---	8.75	---	---	---	---	---	---
31	1.64	---	3.63	9.03	---	9.20	---	---	---	---	---	---
MEAN	---	4.20	---	6.39	9.75	8.98	---	---	---	---	---	---
MAX	---	7.60	---	9.44	11.82	11.84	---	---	---	---	---	---
MIN	---	0.96	---	0.92	7.94	6.47	---	---	---	---	---	---



08049565 Trigg Branch at DFW Airport near Euless, TX

LOCATION.--Lat 32°52'02", long 97°02'20", Tarrant County, Hydrologic Unit 12030102, south side of Dallas/Fort Worth Airport entrance

DRAINAGE AREA.--1.73 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1982 to Sept. 1987, Oct. 2002 to May 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 512.57 ft above NGVD of 1929. Prior to Sept. 30, 1987, at present site, at datum 3.63 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 572 ft³/s on Nov. 2, 1983. Minimum discharge of 0 ft³/s during several days in July and August of 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge (2003 WY), 239 cfs, June 13, gage height, 9.85 ft, maximum discharge (2004 WY), 222 cfs, Feb. 4, gage height, 9.68 ft; minimum discharge (2003 WY), 0.04 cfs, May 19, July 3, gage height, 5.11 ft, minimum discharge (2004 WY), 0.0 cfs, Nov. 5, gage height, 5.03 ft.

EXTREMES FOR CURRENT YEAR (PRECIPITATION).--Maximum daily precipitation (2003 WY), 2.07 in, May 25, maximum daily precipitation (2004 WY), 1.71 in, Jan. 16.

PERIOD OF RECORD (PRECIPITATION).--Nov. 2002 to Apr. 2004 (discontinued).

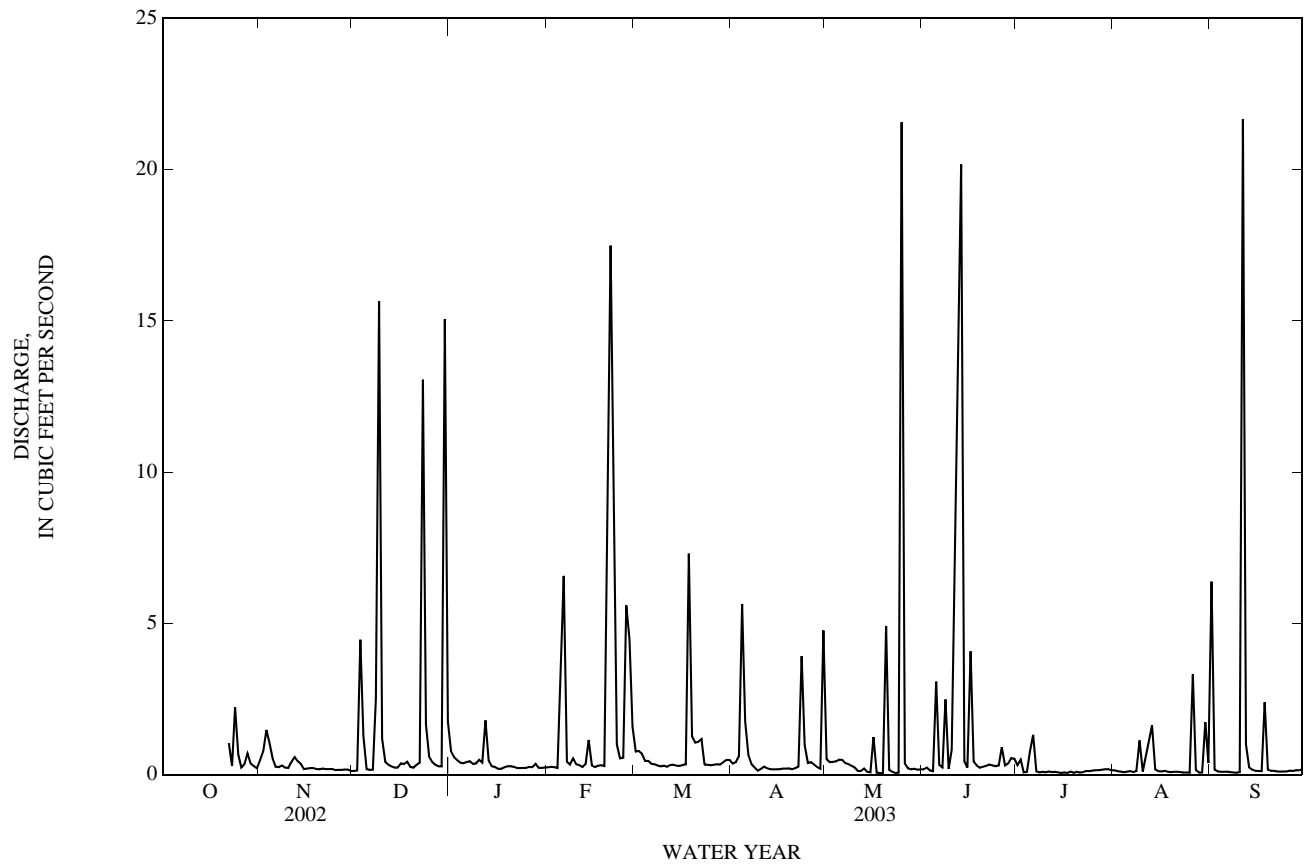
INSTRUMENTATION (PRECIPITATION).--Rain gage sine Nov. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.49	0.12	0.77	0.24	0.77	0.37	0.51	0.17	0.31	0.14	6.4
2	---	0.77	0.14	0.58	0.26	0.78	0.41	0.41	0.23	0.49	0.11	0.17
3	---	1.5	4.5	0.47	0.25	0.69	0.61	0.43	0.14	0.08	0.10	0.11
4	---	1.1	1.3	0.40	0.22	0.45	5.6	0.44	0.12	0.09	0.08	0.10
5	---	0.53	0.19	0.38	3.0	0.46	1.8	0.50	3.1	0.77	0.10	0.10
6	---	0.27	0.16	0.42	6.6	0.36	0.66	0.49	0.32	1.3	0.12	0.10
7	---	0.25	0.16	0.45	0.43	0.34	0.35	0.38	0.24	0.11	0.08	0.09
8	---	0.30	2.5	0.36	0.33	0.30	0.24	0.35	2.5	0.07	0.12	0.07
9	---	0.23	16	0.37	0.53	0.27	e0.13	0.29	0.19	0.09	1.1	0.06
10	---	0.22	1.2	0.49	0.35	0.29	e0.19	0.24	0.83	0.08	0.10	0.09
11	---	0.42	0.42	0.39	0.31	0.26	0.26	0.12	9.1	0.11	0.61	22
12	---	e0.58	0.33	1.8	0.25	0.32	0.21	0.12	15	0.08	1.1	1.00
13	---	0.45	0.27	0.46	0.36	0.33	0.18	0.20	20	0.10	1.6	0.24
14	---	0.35	0.23	0.28	1.1	0.30	0.17	0.09	0.45	0.07	0.17	0.16
15	---	0.19	0.23	0.25	0.31	0.29	0.18	0.08	0.23	0.06	0.12	0.13
16	---	0.20	0.37	0.19	0.25	0.32	0.18	1.2	4.1	0.07	0.10	0.12
17	---	0.22	0.36	0.19	0.30	0.34	0.20	0.07	0.44	0.06	0.12	0.12
18	---	0.22	0.43	0.24	0.31	7.3	0.20	0.05	0.30	0.10	0.10	2.4
19	---	0.18	0.26	0.27	0.28	1.3	0.20	0.05	0.23	0.06	0.08	0.16
20	---	0.18	0.23	0.28	6.3	1.1	0.18	4.9	0.26	0.10	0.10	0.13
21	---	0.20	0.33	0.26	17	1.1	0.21	0.16	0.29	0.07	0.10	0.13
22	1.0	0.18	0.40	0.22	11	1.2	0.26	0.10	0.33	0.08	0.09	0.11
23	0.29	0.18	13	0.21	1.0	0.33	3.9	0.05	0.30	0.12	0.07	0.10
24	2.2	0.18	1.7	0.22	0.54	0.33	0.97	0.07	0.28	0.11	0.08	0.11
25	0.67	0.16	0.59	0.22	0.56	0.31	0.38	22	0.30	0.14	0.06	0.11
26	0.24	0.16	0.42	0.25	5.6	0.33	0.41	0.37	0.90	0.15	3.3	0.13
27	e0.35	0.16	0.32	0.25	4.5	0.34	0.33	0.21	0.31	0.15	0.16	0.12
28	0.70	0.17	0.28	0.36	1.6	0.33	0.25	0.18	0.37	0.16	0.07	0.15
29	0.36	0.17	0.28	0.23	---	0.41	0.19	0.20	0.54	0.18	0.07	0.14
30	0.28	0.12	15	0.22	---	0.49	4.8	0.16	0.53	0.18	1.7	0.18
31	0.21	---	1.8	0.24	---	0.49	---	0.17	---	0.15	0.38	---
TOTAL	---	10.33	63.52	11.72	63.78	22.23	24.02	34.59	62.10	5.69	12.23	35.03
MEAN	---	0.34	2.05	0.38	2.28	0.72	0.80	1.12	2.07	0.18	0.39	1.17
MAX	---	1.5	16	1.8	17	7.3	5.6	22	20	1.3	3.3	22
MIN	---	0.12	0.12	0.19	0.22	0.26	0.13	0.05	0.12	0.06	0.06	0.06
AC-FT	---	20	126	23	127	44	48	69	123	11	24	69

e Estimated

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

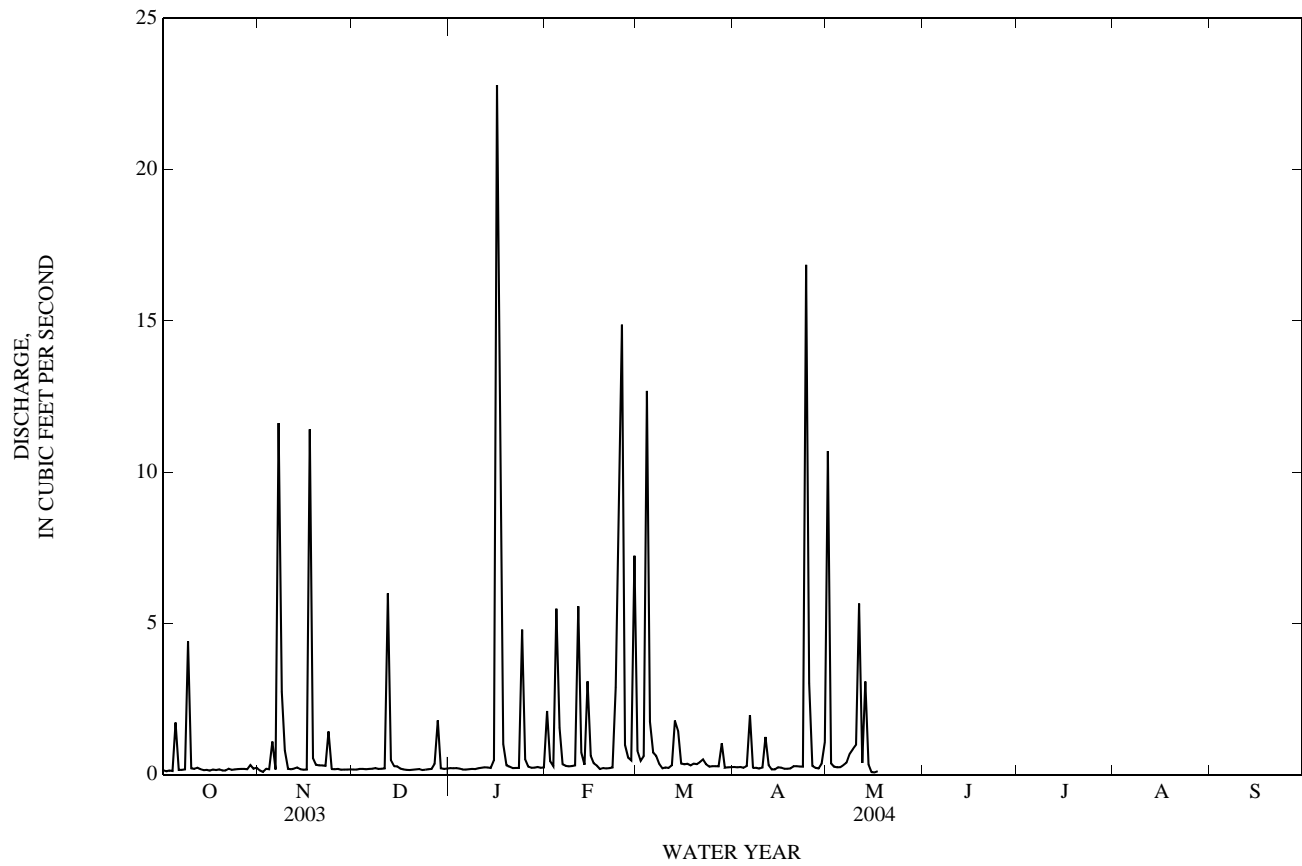


08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.15	0.14	0.17	0.22	2.1	0.79	0.25	11	---	---	---	---
2	0.11	0.09	0.17	0.21	0.45	0.46	0.24	0.37	---	---	---	---
3	0.13	0.20	0.19	0.22	0.28	0.61	0.25	0.26	---	---	---	---
4	0.12	0.18	0.19	0.20	5.5	13	0.23	0.24	---	---	---	---
5	1.7	1.1	0.18	0.17	1.5	1.8	0.28	0.25	---	---	---	---
6	0.16	0.17	0.19	0.17	0.34	0.74	2.0	0.32	---	---	---	---
7	0.16	12	0.20	0.18	0.29	0.62	0.22	0.40	---	---	---	---
8	0.17	2.7	0.22	0.19	0.28	0.35	0.23	0.69	---	---	---	---
9	4.4	0.80	0.19	0.18	0.29	0.21	0.20	0.84	---	---	---	---
10	0.21	0.19	0.19	0.21	0.31	0.24	0.23	0.98	---	---	---	---
11	0.19	0.18	0.21	0.23	5.6	0.22	1.2	5.7	---	---	---	---
12	0.23	0.20	6.0	0.25	0.73	0.31	0.31	0.38	---	---	---	---
13	0.18	0.24	0.47	0.24	0.33	1.8	0.18	3.1	---	---	---	---
14	0.15	0.18	0.28	0.22	3.1	1.4	0.17	0.34	---	---	---	---
15	0.16	0.16	0.28	0.48	0.63	0.37	0.25	0.09	---	---	---	---
16	0.13	0.17	0.20	23	0.38	0.34	0.23	0.07	---	---	---	---
17	0.17	11	0.17	6.7	0.29	0.36	0.20	0.11	---	---	---	---
18	0.15	0.55	0.16	1.0	0.19	0.31	0.19	---	---	---	---	---
19	0.18	0.33	0.16	0.31	0.22	0.37	0.21	---	---	---	---	---
20	0.14	0.31	0.16	0.26	0.21	0.35	0.28	---	---	---	---	---
21	0.14	0.31	0.17	0.22	0.22	0.41	0.28	---	---	---	---	---
22	0.19	0.29	0.19	0.22	0.24	0.50	0.27	---	---	---	---	---
23	0.16	1.4	0.16	0.22	2.9	0.34	0.26	---	---	---	---	---
24	0.18	0.18	0.16	4.8	9.7	0.26	17	---	---	---	---	---
25	0.18	0.18	0.18	0.51	15	0.28	3.0	---	---	---	---	---
26	0.19	0.19	0.19	0.26	0.98	0.28	0.29	---	---	---	---	---
27	0.19	0.17	0.36	0.23	0.56	0.28	0.23	---	---	---	---	---
28	0.18	0.17	1.8	0.23	0.47	1.0	0.21	---	---	---	---	---
29	0.32	0.17	0.21	0.25	7.2	0.23	0.37	---	---	---	---	---
30	0.19	0.17	0.19	0.23	---	0.24	1.1	---	---	---	---	---
31	0.23	---	0.20	0.24	---	0.25	---	---	---	---	---	---
TOTAL	11.14	34.12	13.79	42.05	60.29	28.72	30.36	---	---	---	---	---
MEAN	0.36	1.14	0.44	1.36	2.08	0.93	1.01	---	---	---	---	---
MAX	4.4	12	6.0	23	15	13	17	---	---	---	---	---
MIN	0.11	0.09	0.16	0.17	0.19	0.21	0.17	---	---	---	---	---
AC-FT	22	68	27	83	120	57	60	---	---	---	---	---

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued



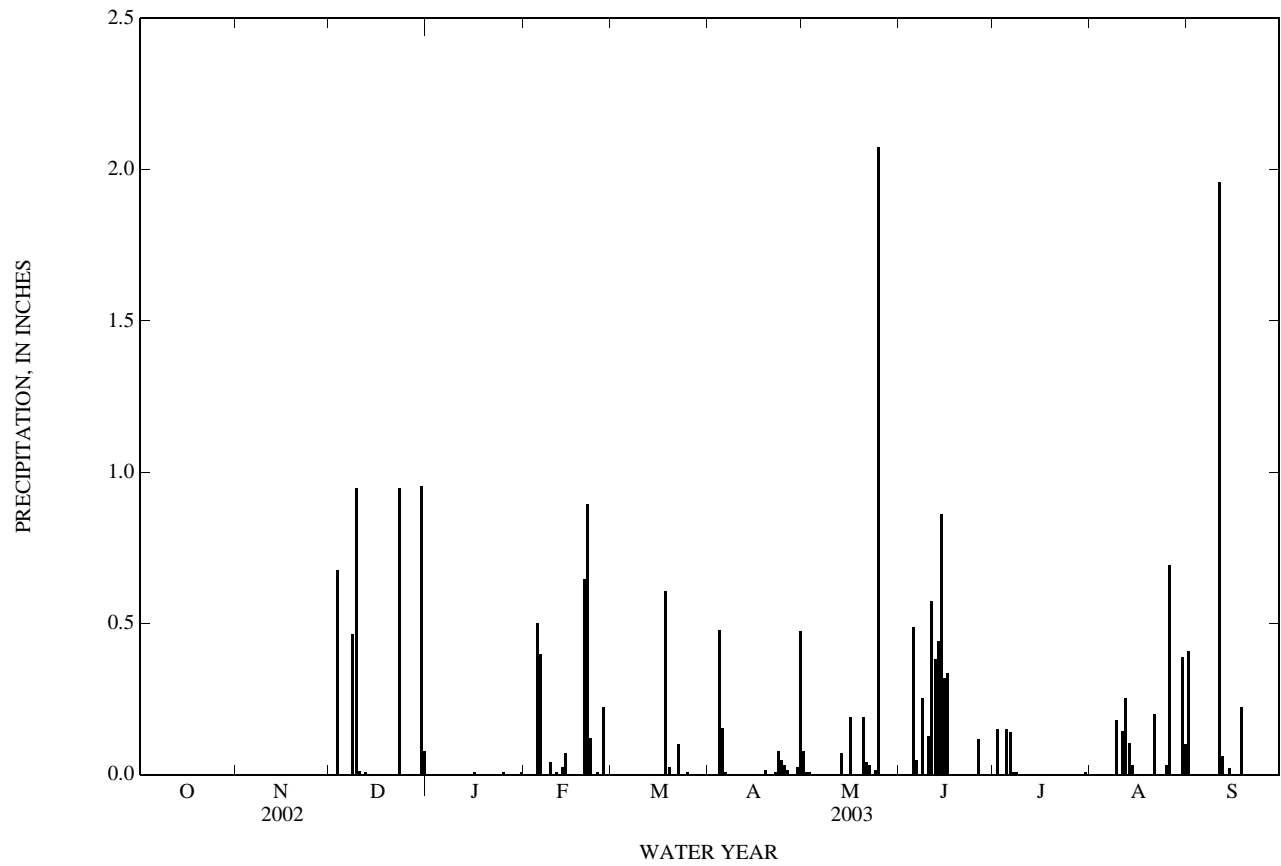
08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.000	0.000	0.000	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.410
2	---	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.151	0.000	0.000
3	---	0.000	0.675	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
4	---	0.000	0.000	0.000	0.000	0.000	0.477	0.000	0.000	0.000	0.000	0.000
5	---	0.000	0.000	0.000	0.500	0.000	0.155	0.000	0.489	0.150	0.000	0.000
6	---	0.000	0.000	0.000	0.400	0.000	0.008	0.000	0.047	0.140	0.000	0.000
7	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.000
8	---	0.000	0.464	0.000	0.000	0.000	0.000	0.000	0.252	0.008	0.000	0.000
9	---	0.000	0.946	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.181	0.000
10	---	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.127	0.000	0.000	0.000
11	---	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.575	0.000	0.143	1.96
12	---	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.380	0.000	0.252	0.060
13	---	0.000	0.000	0.000	0.024	0.000	0.000	0.071	0.440	0.000	0.103	0.000
14	---	0.000	0.000	0.000	0.071	0.000	0.000	0.000	0.860	0.000	0.032	0.020
15	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.320	0.000	0.000	0.000
16	---	0.000	0.000	0.008	0.000	0.000	0.000	0.189	0.336	0.000	0.000	0.000
17	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	---	0.000	0.000	0.000	0.000	0.607	0.000	0.000	0.000	0.000	0.000	0.223
19	---	0.000	0.000	0.000	0.000	0.024	0.016	0.000	0.000	0.000	0.000	0.000
20	---	0.000	0.000	0.000	0.646	0.000	0.000	0.189	0.000	0.000	0.000	0.000
21	---	0.000	0.000	0.000	0.894	0.000	0.000	0.040	0.000	0.000	0.200	0.000
22	0.000	0.000	0.000	0.000	0.120	0.102	0.008	0.031	0.000	0.000	0.000	0.000
23	0.000	0.000	0.946	0.000	0.000	0.000	0.079	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.008	0.000	0.047	0.016	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.008	0.000	0.008	0.032	2.07	0.000	0.000	0.032	0.000
26	0.000	0.000	0.000	0.000	0.224	0.000	0.016	0.000	0.119	0.000	0.693	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	---	0.000	0.024	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.955	0.000	---	0.000	0.473	0.000	0.000	0.008	0.389	0.000
31	0.000	---	0.079	0.008	---	0.000	---	0.000	---	0.000	0.100	---
TOTAL	---	0.000	4.084	0.024	2.935	0.741	1.335	2.701	3.945	0.465	2.125	2.673
MEAN	---	0.000	0.132	0.001	0.105	0.024	0.044	0.087	0.132	0.015	0.069	0.089
MAX	---	0.000	0.955	0.008	0.894	0.607	0.477	2.07	0.860	0.151	0.693	1.96
MIN	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

e Estimated

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued



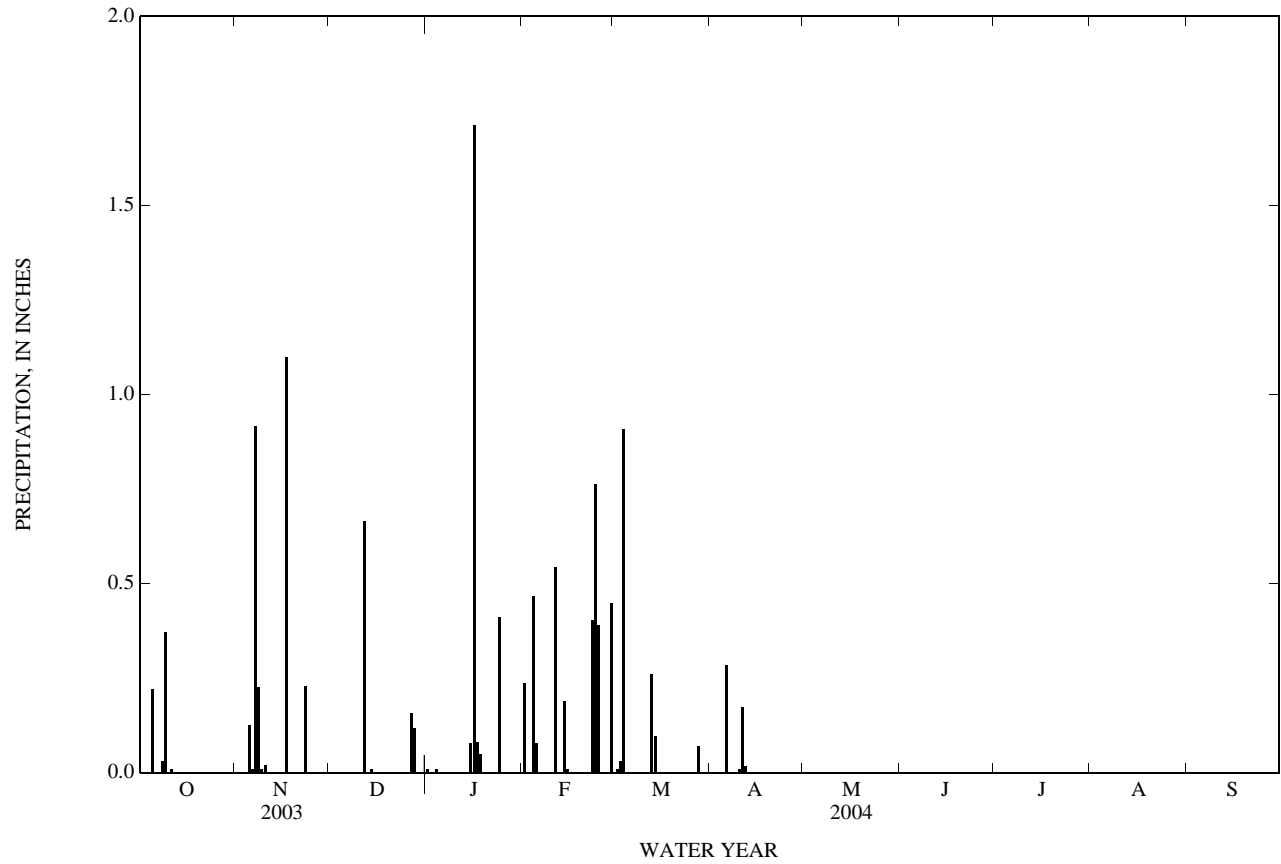
08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	0.000	0.000	0.008	0.237	0.000	0.000	---	---	---	---	---
2	0.000	0.000	0.000	0.000	0.000	0.008	0.000	---	---	---	---	---
3	0.000	0.000	0.000	0.000	0.000	0.031	0.000	---	---	---	---	---
4	0.000	0.000	0.000	0.008	0.466	0.907	0.000	---	---	---	---	---
5	0.221	0.126	0.000	0.000	0.079	0.000	0.000	---	---	---	---	---
6	0.000	0.008	0.000	0.000	0.000	0.000	0.284	---	---	---	---	---
7	0.000	0.915	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
8	0.031	0.225	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
9	0.371	0.010	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
10	0.000	0.019	0.000	0.000	0.000	0.000	0.008	---	---	---	---	---
11	0.008	0.000	0.000	0.000	0.544	0.000	0.173	---	---	---	---	---
12	0.000	0.000	0.664	0.000	0.000	0.000	0.016	---	---	---	---	---
13	0.000	0.000	0.000	0.000	0.000	0.260	0.000	---	---	---	---	---
14	0.000	0.000	0.008	0.000	0.189	0.096	0.000	---	---	---	---	---
15	0.000	0.000	0.000	0.079	0.008	0.000	0.000	---	---	---	---	---
16	0.000	0.000	0.000	1.71	0.000	0.000	---	---	---	---	---	---
17	0.000	1.10	0.000	0.080	0.000	0.000	---	---	---	---	---	---
18	0.000	0.000	0.000	0.050	0.000	0.000	---	---	---	---	---	---
19	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
20	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
21	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
22	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
23	0.000	0.229	0.000	0.000	0.404	0.000	---	---	---	---	---	---
24	0.000	0.000	0.000	0.410	0.764	0.000	---	---	---	---	---	---
25	0.000	0.000	0.000	0.000	0.390	0.000	---	---	---	---	---	---
26	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---
27	0.000	0.000	0.158	0.000	0.000	0.000	---	---	---	---	---	---
28	0.000	0.000	0.118	0.000	0.000	0.071	---	---	---	---	---	---
29	0.000	0.000	0.000	0.000	0.449	0.000	---	---	---	---	---	---
30	0.000	0.000	0.000	0.000	---	0.000	---	---	---	---	---	---
31	0.000	---	0.000	0.000	---	0.000	---	---	---	---	---	---
TOTAL	0.631	2.632	0.948	2.345	3.530	1.373	---	---	---	---	---	---
MEAN	0.020	0.088	0.031	0.076	0.122	0.044	---	---	---	---	---	---
MAX	0.371	1.10	0.664	1.71	0.764	0.907	---	---	---	---	---	---
MIN	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---

e Estimated

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued



08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical data: Nov. 2002 to Apr. 2004 (discontinued).

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2002 to Apr. 2004 (discontinued). Water temperature: Oct. 2002 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 2002.

REMARKS.--Records fair. Interruptions in the record were caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum (2003 WY), 34.55 °C, Aug. 6, maximum (2004 WY), 25.08 °C, Oct. 10; minimum (2003 WY), 1.69 °C, Feb. 24, minimum (2004 WY), 3.80 °C, Jan. 6.

DISSOLVED OXYGEN: Maximum (2003 WY), 29.02 mg/L, Aug. 21, maximum (2004 WY), 16.16 mg/L, Jan. 7; minimum (2003 WY), 0.09 mg/L, Mar. 21, minimum (2004 WY), 0.23 mg/L, Oct. 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
NOV 25- DEC 02	1114	--	S15	--	--
DEC 02-05	1640	--	40	--	--
DEC 05-11	1605	--	29	--	--
DEC 11-24	1356	--	35	--	--
DEC 24-31	1247	--	41	--	--
30...	1217	--	70	<18.0	<18.0
30...	1239	--	140	<18.0	S47.0
30...	1317	--	66	--	--
30...	1425	--	170	<18.0	<18.0
30...	1451	6.8	36	<18.0	<18.0
30...	1525	5.8	42	<18.0	<18.0
30...	1612	--	40	--	--
30...	1700	--	42	--	--
30...	1752	--	36	--	--
30...	1904	5.8	28	--	--
DEC 31 2002- JAN 13 2003	1419	--	30	--	--
12...	1321	--	S10	--	--
12...	1420	--	57	<18.0	<18.0
12...	1514	--	E49	--	--
12...	1607	--	E60	<18.0	<18.0
12...	1705	--	E57	--	--
12...	1834	--	E77	<18.0	S28.0
12...	2055	--	E100	--	--
13...	0033	>100	E150	<18.0	88.0
13...	0555	--	E200	--	--
13...	0721	>100	E240	<18.0	150
JAN 13-22	0948	--	350	--	--
JAN 28- FEB 04	1144	--	S12	--	--
FEB 04-11	1125	--	38	--	--
FEB 11-20	1038	--	58	--	--
FEB 20-24	0930	--	38	--	--
FEB 26- MAR 05	1537	--	330	--	--
FEB 26...	2114	--	460	<18.0	210
27...	0008	250	420	<18.0	250
27...	0158	230	400	<18.0	180
27...	0342	220	430	<18.0	160
27...	0831	260	340	S30.0	930
27...	1235	--	350	--	--
27...	1816	--	140	--	--
28...	0930	--	180	--	--
28...	1113	--	200	--	--
MAR 01...	0926	--	200	--	--

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
MAR 05-11	0927	--	310	--	--
MAR 11-21	1005	--	58	--	--
MAR 21- APR 01	1217	--	150	--	--
APR 01-08	1337	--	73	--	--
APR 08-17	1327	--	28	--	--
APR 17-25	1034	--	47	--	--
AUG 26...	1720	5.5	68	<18.0	<18.0
26...	1732	>8.9	140	<18.0	<18.0
26...	1752	--	71	<18.0	<18.0
26...	2208	--	46	<18.0	<18.0
27...	0905	--	58	<18.0	<18.0

Remark codes used in this table:

< -- Less than

> -- Greater than

E -- Estimated value

S -- Most probable value

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
OCT					
14-20	1317	--	S18	--	--
OCT					
20-27	1232	--	S12	--	--
OCT 27- NOV 03	1237	--	S14	--	--
NOV					
03-10	1318	--	36	--	--
NOV					
10-19	1106	--	30	--	--
NOV					
19-24	1216	--	S20	--	--
NOV 24- DEC 01	1033	--	S14	--	--
DEC					
01-08	1401	--	S19	--	--
DEC					
08-16	1200	--	40	--	--
DEC					
16-22	1003	--	S21	--	--
DEC					
22-30	1030	--	37	--	--
DEC 30 2003- JAN 05 2004	1003	--	S14	--	--
JAN					
05-12	1033	--	S13	--	--
JAN					
12-20	1005	--	S24	--	--
JAN					
20-26	1333	--	S23	--	--
JAN 26- FEB 02	1256	--	31	--	--
FEB					
02-09	1133	--	85	--	--
FEB					
09-13	1201	--	50	--	--
FEB					
13-17	1731	--	350	--	--
14...	0736	--	35	<18.0	<18.0
14...	0851	--	42	--	--
14...	1045	--	63	--	--
14...	1202	--	360	<18.0	190
14...	1256	--	700	--	--
14...	1303	--	920	--	--
14...	1327	--	760	--	--
14...	1328	--	900	--	--
14...	1417	--	790	<18.0	310
14...	2145	--	320	--	--
15...	0419	140	330	<18.0	190
15...	1835	93.0	220	--	--
16...	0826	170	290	<18.0	160
FEB					
17-23	1415	--	100	--	--
FEB					
23-27	1138	--	98	--	--
FEB 27- MAR 05	1059	--	40	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Remark codes used in this table:
 < -- Less than
 S -- Most probable value

[illegible]

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.98	8.81	10.94	9.78	8.16	8.99	20.14	12.63	16.24	27.57	22.26	24.75
2	15.75	10.66	13.12	11.21	9.27	10.17	22.16	14.79	18.22	26.75	23.44	24.83
3	16.56	12.35	14.78	10.89	9.29	10.14	20.44	17.56	18.90	26.38	22.30	24.18
4	12.59	9.61	11.17	13.80	9.90	11.55	23.90	18.18	20.46	26.98	23.62	25.13
5	10.21	8.13	9.00	12.54	8.73	10.78	21.17	17.82	19.66	28.66	24.69	26.17
6	8.46	7.35	7.88	11.82	6.87	9.28	24.58	18.07	20.41	28.61	25.54	26.80
7	8.24	5.28	6.77	14.50	9.04	11.49	23.04	16.97	19.54	29.17	24.83	26.90
8	6.80	5.88	6.33	15.43	12.80	13.99	18.97	---	---	27.96	25.57	26.73
9	8.37	6.12	7.02	16.79	12.06	14.17	19.51	---	---	27.88	25.01	26.31
10	9.98	7.19	8.55	13.47	11.12	12.47	20.02	---	---	26.54	24.75	25.57
11	11.56	7.97	9.62	16.23	10.61	13.39	20.62	14.70	17.51	26.35	21.52	24.07
12	12.19	9.07	10.66	19.92	15.40	17.31	22.30	15.38	18.63	25.98	21.17	23.37
13	14.32	11.78	12.55	21.01	18.19	19.31	24.00	18.22	20.90	25.20	21.94	23.47
14	17.97	14.32	16.42	22.05	15.76	18.42	24.61	19.01	21.58	26.68	22.66	24.84
15	18.01	11.56	15.61	20.04	15.34	17.64	21.77	19.44	20.61	25.55	23.91	24.74
16	11.56	7.65	9.03	21.70	17.50	19.34	25.09	18.38	20.88	28.43	22.03	24.87
17	10.46	6.01	8.23	21.56	18.07	19.70	26.35	17.49	21.55	27.85	22.24	24.22
18	12.76	8.49	10.64	19.49	14.83	16.42	22.53	20.04	21.17	29.41	21.49	24.92
19	13.04	11.90	12.70	17.78	13.52	15.66	25.21	20.17	22.37	30.33	23.59	26.63
20	12.47	10.82	11.43	16.77	13.57	15.06	24.57	19.72	22.08	27.34	18.93	21.95
21	12.41	9.31	11.14	17.20	12.36	14.56	26.69	18.26	21.89	19.88	18.41	19.10
22	14.43	8.81	11.66	15.23	13.65	14.28	21.68	19.10	19.85	24.22	18.83	20.93
23	14.23	10.50	12.21	17.91	12.49	15.00	19.11	17.74	18.77	26.17	19.47	22.64
24	10.50	1.69	6.29	20.84	15.57	18.07	23.49	17.52	19.90	28.11	22.55	24.84
25	4.44	1.75	3.59	21.38	17.52	18.81	25.31	18.58	21.63	25.78	19.22	21.71
26	7.28	2.79	3.98	22.70	14.82	18.17	24.62	19.33	21.94	23.98	20.21	21.96
27	7.39	4.88	6.07	21.89	15.76	18.55	25.22	20.63	22.82	28.31	20.75	23.91
28	8.87	5.71	6.98	18.31	12.61	15.22	23.45	21.06	22.16	29.18	21.19	24.70
29	---	---	---	15.21	10.92	12.56	27.13	21.06	23.49	31.40	22.77	26.36
30	---	---	---	18.14	9.53	13.34	24.35	19.46	22.07	30.51	23.92	26.92
31	---	---	---	18.27	11.51	14.50	---	---	---	32.37	25.15	28.29
MONTH	18.01	1.69	9.80	22.70	6.87	14.79	27.13	---	---	32.37	18.41	24.57
JUNE			JULY			AUGUST			SEPTEMBER			
1	31.47	25.78	28.32	---	---	---	33.75	28.54	30.57	25.38	24.32	24.63
2	31.88	26.46	28.49	---	---	---	33.17	27.84	30.08	25.95	23.71	24.67
3	32.71	25.23	28.41	---	---	---	30.51	27.64	28.91	26.95	23.42	25.03
4	32.84	25.99	28.61	32.86	28.19	30.15	32.31	26.21	28.65	28.26	24.43	25.84
5	27.28	22.75	24.43	29.80	27.57	28.37	32.87	26.62	29.09	29.75	24.30	26.37
6	26.84	22.08	23.90	28.94	26.75	27.67	34.55	28.06	30.44	29.45	23.74	25.94
7	29.30	21.98	25.15	30.76	26.28	28.03	34.34	27.88	30.43	28.21	22.39	24.84
8	25.48	21.19	23.71	31.40	26.78	28.61	32.68	28.81	30.12	26.92	21.92	24.08
9	28.69	22.59	25.28	31.77	26.72	28.77	29.49	24.13	27.02	27.30	22.29	24.58
10	29.57	23.16	26.97	32.50	26.64	29.25	31.32	24.28	27.03	27.87	23.90	25.47
11	29.42	22.81	25.61	33.47	27.69	30.32	33.01	25.95	28.52	25.87	22.52	24.18
12	25.12	21.80	22.87	33.71	27.70	30.35	30.16	24.41	26.64	23.05	21.94	22.59
13	22.59	20.37	21.74	34.09	28.44	30.73	28.07	23.73	25.62	25.19	20.57	22.33
14	27.00	20.92	23.45	34.23	28.11	30.62	27.59	24.12	25.80	22.88	21.44	22.06
15	28.90	23.89	26.11	33.65	27.62	30.19	31.95	24.92	27.78	24.39	20.04	22.11
16	29.98	24.75	26.46	33.17	28.21	30.22	32.47	26.55	28.92	25.79	21.88	23.67
17	28.26	23.31	25.35	34.24	27.61	30.40	31.63	27.24	29.23	27.44	23.23	25.01
18	29.65	24.43	26.59	33.67	28.95	30.91	32.69	27.84	29.82	26.54	24.06	24.99
19	31.05	25.00	27.73	34.15	28.54	30.71	33.13	28.23	30.04	25.24	21.73	23.27
20	32.03	26.19	28.66	34.02	28.27	30.54	32.16	28.10	29.73	24.44	20.64	22.65
21	31.58	27.18	29.10	33.83	27.36	30.09	33.40	27.77	30.01	25.53	22.75	23.82
22	32.44	27.92	29.84	34.07	27.78	30.14	33.27	28.03	29.97	27.14	22.02	24.13
23	---	---	---	34.16	28.36	30.61	32.40	27.30	29.46	25.91	22.63	24.07
24	---	---	---	33.04	27.24	29.56	30.87	27.36	29.23	25.92	23.28	24.42
25	---	---	---	33.44	27.49	29.79	31.60	27.67	29.19	25.71	22.58	24.09
26	---	---	---	32.89	27.96	29.79	30.08	25.57	27.95	26.91	23.69	24.98
27	---	---	---	33.24	27.39	29.62	28.78	24.94	26.55	26.98	23.46	24.76
28	---	---	---	33.06	27.44	29.73	31.36	26.38	28.49	25.53	21.15	22.94
29	---	---	---	33.12	27.45	29.88	32.20	27.38	29.41	24.06	19.90	21.76
30	---	---	---	34.17	27.77	30.26	32.24	27.17	29.15	23.52	19.35	21.26
31	---	---	---	34.51	28.17	30.60	27.81	25.38	26.80	---	---	---
MONTH	---	---	---	---	---	---	34.55	23.73	28.73	29.75	19.35	24.02

WATER TEMPERATURE, IN
DEGREES CENTIGRADE[illegible]

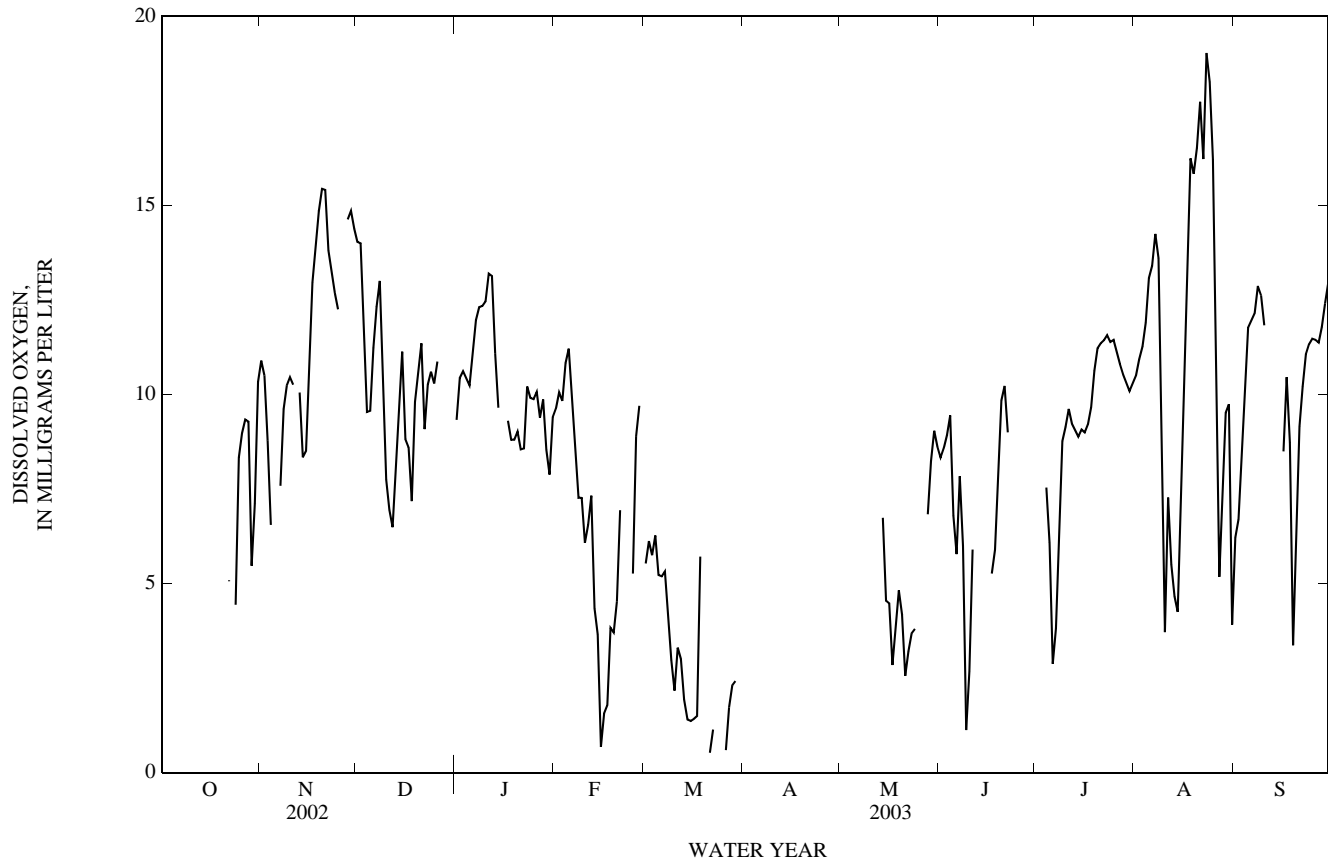
TRINITY RIVER BASIN

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	11.20	8.08	9.63	6.93	3.63	5.53	---	---	---	---	---	---
2	11.66	9.03	10.06	6.81	3.82	6.12	---	---	---	---	---	---
3	12.71	6.40	9.84	6.16	4.93	5.75	---	---	---	---	---	---
4	12.42	9.21	10.83	7.03	5.45	6.27	---	---	---	---	---	---
5	12.64	9.86	11.21	5.90	4.63	5.23	---	---	---	---	---	---
6	11.39	8.52	9.81	5.86	3.37	5.19	---	---	---	---	---	---
7	9.23	6.40	8.50	6.12	4.30	5.32	---	---	---	---	---	---
8	8.96	3.98	7.27	4.95	2.54	4.09	---	---	---	---	---	---
9	9.27	3.17	7.27	3.98	2.00	2.98	---	---	---	---	---	---
10	8.08	3.95	6.08	2.92	1.41	2.17	---	---	---	---	---	---
11	9.32	4.27	6.55	4.54	2.05	3.31	---	---	---	---	---	---
12	10.27	5.65	7.32	3.65	1.73	3.00	---	---	---	---	---	---
13	6.38	2.83	4.35	2.52	1.08	1.93	---	---	---	---	---	---
14	6.03	0.20	3.65	2.75	0.84	1.41	---	---	---	8.42	5.29	6.74
15	1.35	0.22	0.68	2.42	0.66	1.37	---	---	---	5.69	3.50	4.55
16	3.24	0.68	1.57	2.37	0.77	1.42	---	---	---	6.79	2.44	4.48
17	3.39	0.55	1.78	2.38	0.92	1.50	---	---	---	5.52	0.80	2.85
18	5.31	1.99	3.83	9.29	0.73	5.71	---	---	---	6.78	1.79	3.90
19	4.77	2.09	3.71	---	---	---	---	---	---	6.96	3.20	4.82
20	9.12	0.71	4.53	---	---	---	---	---	---	5.67	3.08	4.18
21	10.26	1.28	6.94	1.56	0.09	0.53	---	---	---	3.70	1.58	2.56
22	---	---	---	4.59	0.17	1.14	---	---	---	4.48	2.28	3.21
23	---	---	---	---	---	---	---	---	---	5.44	2.66	3.68
24	---	---	---	---	---	---	---	---	---	5.70	2.50	3.80
25	7.47	2.87	5.27	---	---	---	---	---	---	---	---	---
26	11.96	3.36	8.90	0.97	0.43	0.59	---	---	---	---	---	---
27	10.49	8.26	9.70	3.03	0.59	1.73	---	---	---	---	---	---
28	---	---	---	2.73	1.75	2.30	---	---	---	9.35	5.04	6.83
29	---	---	---	3.32	1.53	2.42	---	---	---	10.64	6.09	8.24
30	---	---	---	---	---	---	---	---	---	11.95	6.63	9.04
31	---	---	---	---	---	---	---	---	---	12.78	6.37	8.62
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
JUNE			JULY			AUGUST			SEPTEMBER			
1	11.31	5.84	8.33	---	---	---	15.09	6.99	10.50	7.32	3.66	6.22
2	12.09	6.12	8.58	---	---	---	16.38	7.19	10.93	10.57	3.59	6.70
3	13.11	5.73	8.93	---	---	---	15.92	7.48	11.27	13.52	5.49	8.93
4	13.90	6.56	9.44	9.92	5.39	7.54	18.24	7.24	11.89	14.58	7.06	10.47
5	7.89	4.77	6.80	8.32	2.33	6.07	18.85	8.79	13.08	16.36	7.76	11.77
6	8.67	3.41	5.78	7.87	0.20	2.88	19.17	9.42	13.40	16.60	8.02	11.95
7	12.46	5.06	7.84	6.73	0.91	3.82	22.87	9.10	14.24	16.32	8.57	12.15
8	7.43	0.98	6.00	12.11	3.18	6.71	19.45	9.60	13.60	17.54	9.51	12.86
9	3.19	0.14	1.13	13.62	5.23	8.77	11.85	1.84	8.24	16.14	9.96	12.62
10	7.24	0.16	2.69	13.32	5.68	9.14	8.07	1.73	3.71	16.10	8.36	11.83
11	7.91	4.31	5.90	13.89	6.00	9.62	14.04	3.34	7.27	---	---	---
12	---	---	---	13.68	6.08	9.23	10.24	1.96	5.51	---	---	---
13	---	---	---	13.71	5.55	9.06	9.61	2.77	4.66	---	---	---
14	---	---	---	13.47	5.84	8.89	7.72	2.37	4.25	---	---	---
15	---	---	---	13.48	5.68	9.07	13.26	2.36	6.87	---	---	---
16	---	---	---	13.46	5.89	8.99	19.14	4.69	11.07	11.11	6.21	8.50
17	6.47	4.69	5.26	14.28	5.70	9.21	24.43	5.62	13.91	13.46	8.01	10.46
18	7.82	4.77	5.89	14.36	6.17	9.66	26.20	8.88	16.24	12.56	4.17	8.73
19	10.22	5.90	7.75	16.04	6.39	10.62	22.80	9.87	15.84	5.36	1.64	3.37
20	15.19	7.09	9.85	16.32	7.11	11.22	25.42	9.52	16.52	10.10	3.52	6.23
21	13.07	6.54	10.23	16.63	6.85	11.36	29.02	10.42	17.74	12.62	6.60	9.15
22	11.05	6.68	9.00	17.33	7.24	11.43	28.82	7.73	16.23	13.78	7.63	10.21
23	---	---	---	17.65	6.80	11.57	28.87	10.47	19.03	13.95	8.27	11.06
24	---	---	---	17.20	7.22	11.39	25.25	10.33	18.27	13.61	9.19	11.33
25	---	---	---	16.56	7.29	11.45	19.90	12.71	16.22	14.76	9.10	11.48
26	---	---	---	16.72	7.68	11.12	16.18	5.48	11.03	13.91	9.05	11.44
27	---	---	---	16.28	7.10	10.81	7.75	3.63	5.18	14.16	8.94	11.37
28	---	---	---	16.32	6.63	10.53	12.53	3.43	7.17	14.66	9.60	11.79
29	---	---	---	14.80	7.01	10.31	15.22	5.20	9.52	15.24	10.16	12.41
30	---	---	---	14.50	6.63	10.09	16.39	5.19	9.74	15.75	10.09	12.96
31	---	---	---	15.84	6.80	10.30	6.59	1.80	3.91	---	---	---
MONTH	---	---	---	---	---	---	29.02	1.73	11.19	---	---	---

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued


 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

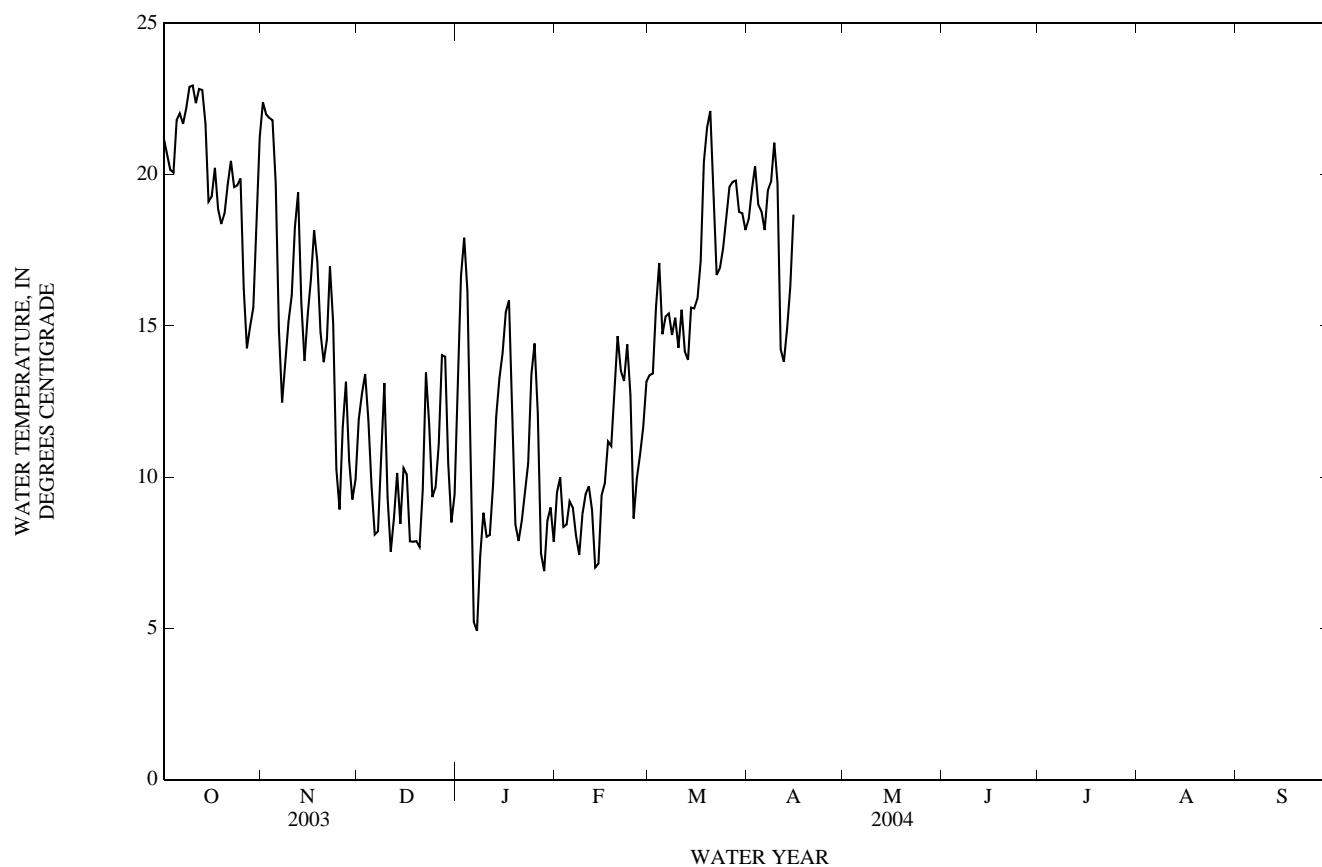
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.73	19.45	21.18	23.78	21.69	22.40	13.79	9.86	11.91	15.10	11.32	13.30
2	22.96	19.26	20.65	22.90	21.27	22.00	13.91	11.62	12.76	18.43	15.01	16.65
3	21.92	18.72	20.16	22.57	21.41	21.88	14.99	12.41	13.41	18.83	17.23	17.91
4	21.83	18.13	20.07	22.78	21.00	21.80	13.67	10.57	11.90	18.02	11.67	16.17
5	22.86	20.73	21.80	21.80	16.48	19.71	11.15	8.15	9.70	11.67	6.48	8.94
6	23.02	21.48	22.03	16.48	13.61	14.87	9.75	6.62	8.10	6.50	3.80	5.21
7	23.21	20.38	21.68	13.66	10.74	12.47	9.82	6.46	8.21	5.87	4.01	4.92
8	23.45	20.85	22.20	15.03	12.85	13.68	12.99	8.46	10.65	9.77	5.27	7.39
9	23.54	22.38	22.90	15.65	14.82	15.14	14.51	10.59	13.11	10.71	7.50	8.82
10	25.08	21.94	22.94	17.22	14.89	16.00	10.99	8.08	9.34	10.02	6.35	8.03
11	23.47	20.97	22.36	20.34	16.43	18.26	8.94	5.86	7.54	10.04	6.02	8.09
12	24.00	21.67	22.83	21.57	17.63	19.41	11.43	6.99	8.65	11.43	7.92	9.71
13	24.20	21.55	22.79	17.63	14.63	15.77	10.88	8.70	10.14	14.20	10.39	12.01
14	23.25	20.02	21.68	14.63	13.33	13.84	9.62	7.14	8.46	14.87	11.83	13.26
15	20.60	17.51	19.11	17.16	13.74	15.37	12.54	8.29	10.30	15.57	13.16	14.10
16	21.36	17.35	19.28	17.61	15.16	16.54	11.44	8.69	10.09	16.32	14.60	15.46
17	22.21	18.71	20.23	19.65	17.36	18.16	9.58	6.38	7.88	17.39	14.62	15.84
18	20.94	17.18	18.86	18.22	15.24	17.13	9.89	6.32	7.87	15.58	9.31	12.26
19	20.14	16.67	18.37	16.90	13.47	14.78	9.87	6.21	7.89	9.83	7.04	8.43
20	20.56	17.02	18.71	15.42	12.12	13.80	9.41	5.76	7.69	9.50	6.77	7.89
21	21.66	18.07	19.67	16.27	12.76	14.56	11.80	7.45	9.58	10.26	7.24	8.56
22	23.70	18.46	20.45	18.73	15.11	16.97	15.56	11.80	13.46	11.92	7.91	9.56
23	21.66	17.80	19.59	18.44	11.29	15.10	12.95	10.10	11.76	11.92	8.65	10.46
24	21.17	18.17	19.64	11.65	9.11	10.27	10.73	7.83	9.34	15.50	11.72	13.40
25	21.98	17.80	19.87	9.80	7.84	8.93	11.24	7.93	9.66	15.83	13.17	14.42
26	17.80	14.62	16.24	13.94	9.18	11.66	12.56	10.07	11.09	14.36	8.59	12.11
27	16.08	12.80	14.26	14.49	10.93	13.15	15.87	12.56	14.03	9.08	5.93	7.48
28	17.98	12.88	14.98	12.22	9.24	10.54	16.15	11.83	13.98	8.79	5.26	6.89
29	17.29	13.68	15.60	10.78	7.49	9.26	11.88	8.85	10.47	10.03	7.03	8.56
30	20.12	16.21	18.20	11.90	7.85	9.92	10.01	6.93	8.50	10.47	7.90	9.00
31	22.82	19.92	21.23	---	---	---	11.32	7.39	9.42	8.39	7.19	7.86
MONTH	25.08	12.80	19.99	23.78	7.49	15.45	16.15	5.76	10.22	18.83	3.80	10.73

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued



DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

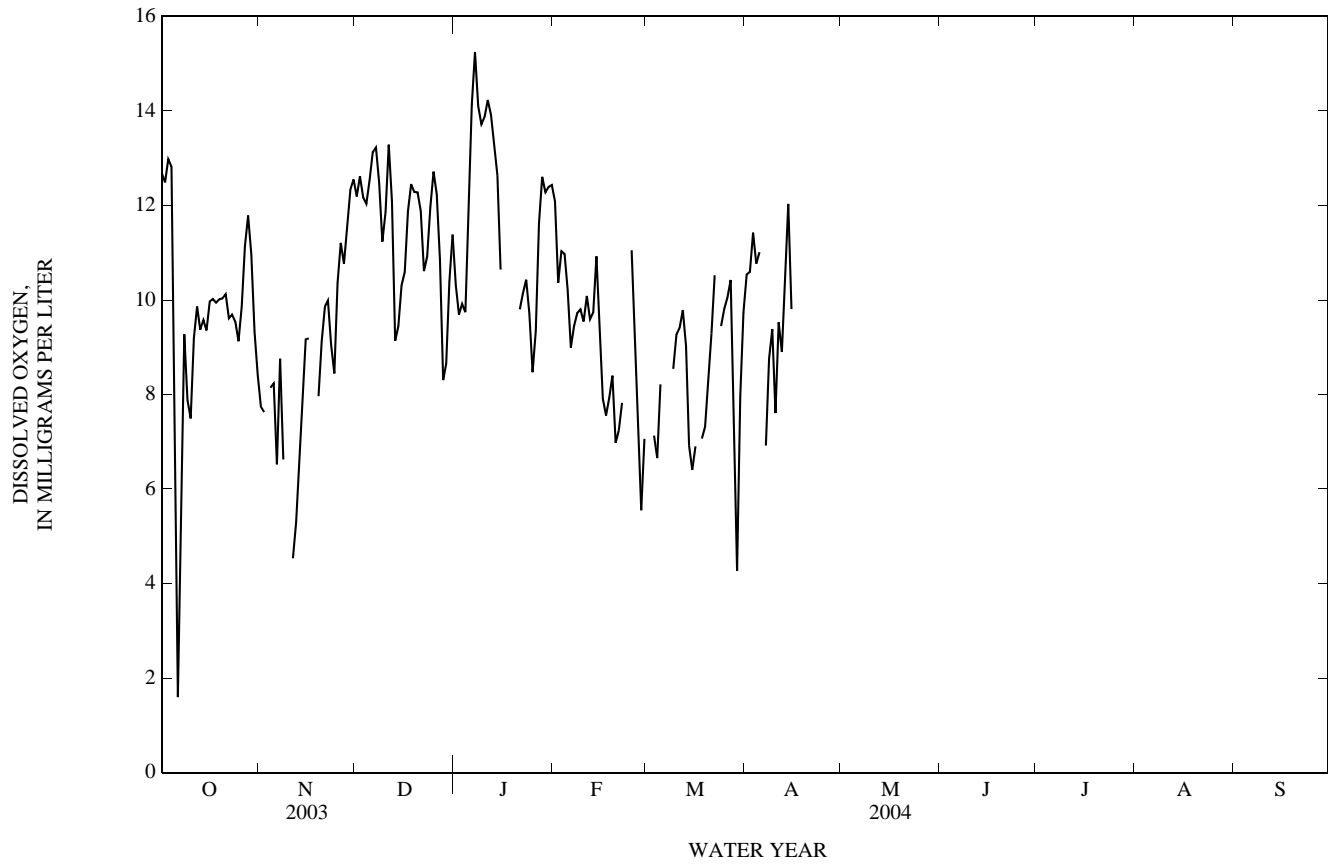
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.35	11.61	12.69	8.98	6.07	7.74	13.43	11.17	12.19	11.57	8.61	10.31
2	15.16	10.37	12.49	10.22	4.34	7.63	14.50	11.27	12.62	11.82	7.94	9.68
3	14.75	11.27	12.98	---	---	---	14.14	10.61	12.17	12.00	8.23	9.92
4	15.28	11.21	12.82	10.19	6.44	8.15	13.71	10.53	12.04	12.06	7.87	9.74
5	12.78	4.27	8.46	9.97	7.16	8.23	14.00	11.23	12.53	14.16	9.83	11.88
6	4.32	0.23	1.60	8.26	4.35	6.52	14.45	11.97	13.13	15.66	12.35	14.13
7	10.23	1.15	5.23	12.46	3.30	8.75	14.15	12.39	13.23	16.16	14.60	15.25
8	12.20	6.55	9.27	8.63	4.35	6.63	13.58	11.21	12.48	15.03	13.36	14.10
9	9.83	6.79	7.88	---	---	---	12.87	10.05	11.24	14.98	12.74	13.72
10	10.64	5.44	7.49	---	---	---	13.56	10.33	11.86	15.23	12.67	13.87
11	12.45	7.02	9.19	6.43	3.04	4.54	14.58	12.07	13.29	15.43	13.32	14.23
12	11.66	8.39	9.86	6.62	3.83	5.29	14.02	9.85	12.09	15.25	12.94	13.91
13	11.60	7.02	9.37	8.78	5.34	6.84	9.85	8.87	9.13	14.77	12.16	13.29
14	11.77	8.15	9.58	10.38	6.36	8.12	10.39	8.62	9.45	13.77	11.69	12.64
15	11.46	7.46	9.36	11.00	8.04	9.17	11.25	9.68	10.31	12.03	7.42	10.64
16	11.91	8.33	9.97	10.57	8.40	9.19	12.21	9.20	10.59	---	---	---
17	12.25	8.38	10.02	---	---	---	12.97	10.91	11.88	---	---	---
18	12.60	8.06	9.94	---	---	---	13.65	11.74	12.45	---	---	---
19	12.09	8.30	10.01	9.13	7.38	7.96	13.52	11.51	12.29	---	---	---
20	11.97	8.57	10.03	9.80	8.38	9.13	13.41	11.47	12.28	---	---	---
21	12.95	8.67	10.12	10.64	9.19	9.86	13.00	10.72	11.88	10.48	9.11	9.80
22	11.18	8.33	9.61	11.21	9.28	9.99	12.20	9.48	10.61	10.80	9.52	10.15
23	12.56	7.96	9.69	10.31	8.25	9.04	12.92	9.44	10.92	11.15	9.85	10.43
24	11.38	8.27	9.54	10.05	7.60	8.45	13.19	10.72	11.97	10.49	8.31	9.70
25	10.82	7.74	9.13	11.92	8.60	10.36	13.83	11.71	12.71	9.42	7.68	8.47
26	11.85	7.86	9.86	12.44	10.57	11.21	13.07	11.20	12.23	11.29	7.51	9.35
27	13.58	9.14	11.14	12.16	9.34	10.77	12.04	9.17	10.85	12.77	10.47	11.63
28	13.31	10.53	11.79	13.40	10.08	11.56	9.88	7.38	8.30	13.37	11.76	12.61
29	12.26	8.99	10.96	13.68	11.15	12.33	10.18	7.26	8.65	12.97	11.44	12.28
30	10.70	7.97	9.34	13.94	11.49	12.55	11.15	9.85	10.40	13.63	11.28	12.39
31	9.84	7.27	8.42	---	---	---	13.08	10.06	11.38	13.13	11.84	12.43
MONTH	15.28	0.23	9.61	---	---	---	14.58	7.26	11.52	---	---	---

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

08049565 Trigg Branch at DFW Airport near Euless, TX—Continued



08049566 Trigg Lake at DFW Airport near Ft Worth, TX

LOCATION.--Lat 32°51'12", long 97°02'39", Tarrant County, Hydrologic Unit 12030102, on top of Trigg Lake dam at Dallas/Fort Worth Airport.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 2002 to May 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 491.62 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge (2003 WY), 444 cfs, June 13, gage height, 21.97 ft, maximum discharge (2004 WY), 328 cfs, May 27, gage height, 21.52 ft; minimum discharge (2003 WY), 0.0 cfs, on many days, minimum discharge (2004 WY), 0.0 cfs, on many days.

EXTREMES FOR CURRENT YEAR (PRECIPITATION).--Maximum daily precipitation (2003 WY), 2.52 in, May 25, maximum daily precipitation (2004 WY), 2.57 in, Jan. 16.

PERIOD OF RECORD (PRECIPITATION).--Nov. 2002 to Apr. 2004 (discontinued).

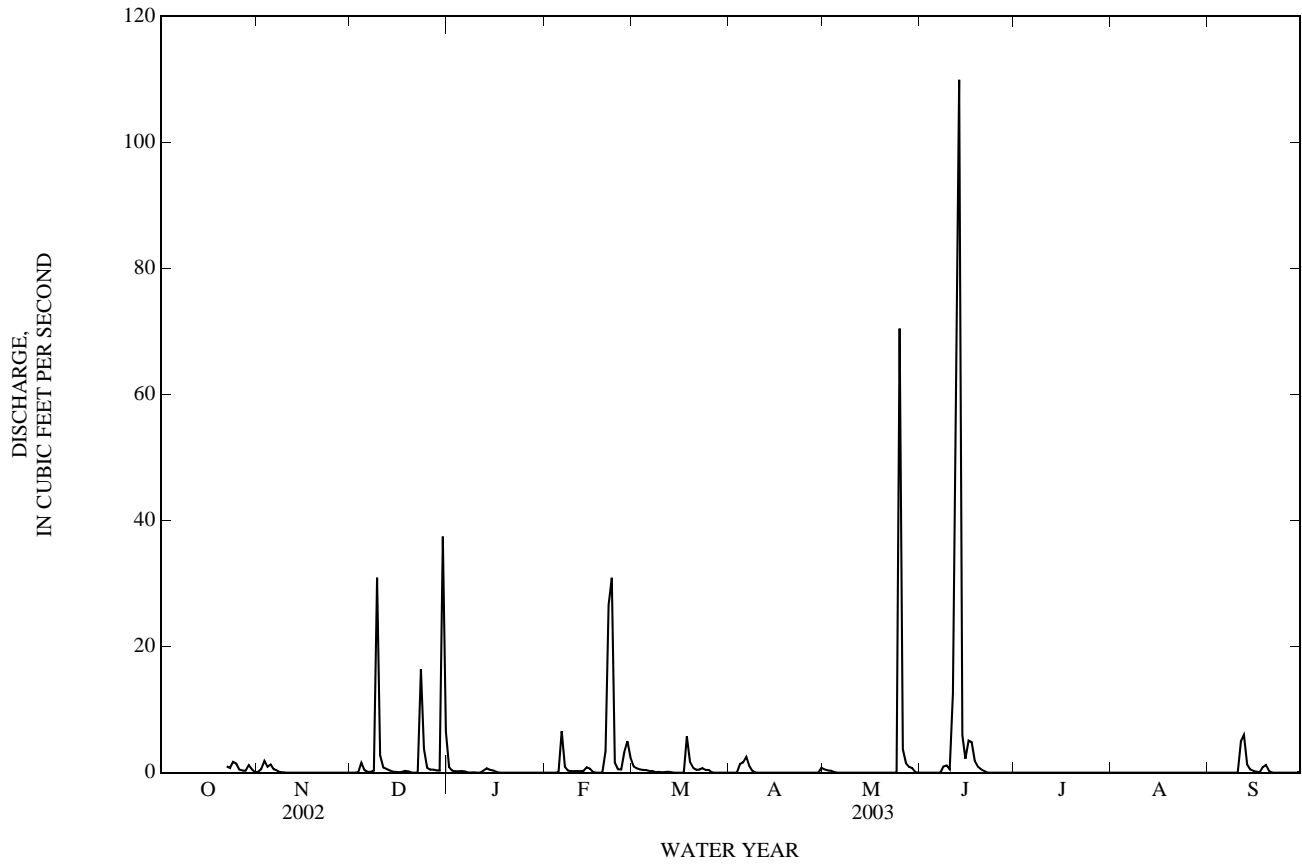
INSTRUMENTATION (PRECIPITATION).--Rain gage since Nov. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.14	0.00	0.89	0.00	0.99	0.00	0.52	0.00	0.00	0.00	0.00
2	---	0.57	0.00	0.33	0.00	0.69	0.00	0.35	0.00	0.00	0.00	0.00
3	---	1.9	0.06	0.21	0.00	0.52	0.00	0.29	0.00	0.00	0.00	0.00
4	---	0.94	1.6	0.22	0.00	0.44	1.4	0.09	0.00	0.00	0.00	0.00
5	---	1.3	0.37	0.25	0.05	0.39	1.6	0.00	0.00	0.00	0.00	0.00
6	---	0.53	0.12	0.21	6.6	0.25	2.5	0.00	0.00	0.00	0.00	0.00
7	---	0.35	0.12	0.01	0.95	0.25	0.98	0.00	0.00	0.00	0.00	0.00
8	---	0.07	0.31	0.01	0.34	0.08	0.22	0.00	0.97	0.00	0.00	0.00
9	---	0.04	31	0.05	0.24	0.14	0.00	0.00	1.1	0.00	0.00	0.00
10	---	0.00	2.8	0.00	0.26	0.06	0.00	0.00	0.52	0.00	0.00	0.00
11	---	0.00	0.82	0.00	0.25	0.10	0.00	0.00	13	0.00	0.00	5.0
12	---	0.00	0.59	0.34	0.24	0.15	0.00	0.00	52	0.00	0.00	6.0
13	---	0.00	0.36	0.69	0.27	0.07	0.00	0.00	110	0.00	0.00	1.3
14	---	0.00	0.14	0.46	0.84	0.00	0.00	0.00	5.9	0.00	0.00	0.51
15	---	0.00	0.12	0.35	0.64	0.00	0.00	0.00	2.2	0.00	0.00	0.28
16	---	0.00	0.05	0.16	0.10	0.00	0.00	0.00	5.1	0.00	0.00	0.15
17	---	0.00	0.12	0.00	0.00	0.00	0.00	0.00	4.9	0.00	0.00	0.04
18	---	0.00	0.28	0.00	0.00	5.7	0.00	0.00	1.8	0.00	0.00	0.86
19	---	0.00	0.19	0.00	0.00	1.7	0.00	0.00	0.95	0.00	0.00	1.2
20	---	0.00	0.00	0.00	3.4	0.76	0.00	0.00	0.54	0.00	0.00	0.27
21	---	0.00	0.00	0.00	27	0.45	0.00	0.00	0.26	0.00	0.00	0.00
22	0.98	0.00	0.00	0.00	31	0.49	0.00	0.00	0.00	0.00	0.00	0.00
23	e0.73	0.00	16	0.00	1.6	0.70	0.00	0.00	0.00	0.00	0.00	0.00
24	1.7	0.00	3.8	0.00	0.54	0.42	0.00	0.00	0.00	0.00	0.00	0.00
25	1.4	0.00	0.76	0.00	0.50	0.42	0.00	70	0.00	0.00	0.00	0.00
26	0.49	0.00	0.49	0.00	3.2	0.03	0.00	3.7	0.00	0.00	0.00	0.00
27	e0.32	0.00	0.48	0.00	5.0	0.00	0.00	1.5	0.00	0.00	0.00	0.00
28	0.30	0.00	0.35	0.00	2.4	0.00	0.00	0.92	0.00	0.00	0.00	0.00
29	1.2	0.00	0.32	0.00	---	0.00	0.00	0.72	0.00	0.00	0.00	0.00
30	0.52	0.00	37	0.00	---	0.00	0.78	0.10	0.00	0.00	0.00	0.00
31	0.07	---	6.6	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	5.84	104.85	4.18	85.42	14.80	7.48	78.19	199.24	0.00	0.00	15.61
MEAN	---	0.19	3.38	0.13	3.05	0.48	0.25	2.52	6.64	0.00	0.00	0.52
MAX	---	1.9	37	0.89	31	5.7	2.5	70	110	0.00	0.00	6.0
MIN	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	---	12	208	8.3	169	29	15	155	395	0.00	0.00	31

e Estimated

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued



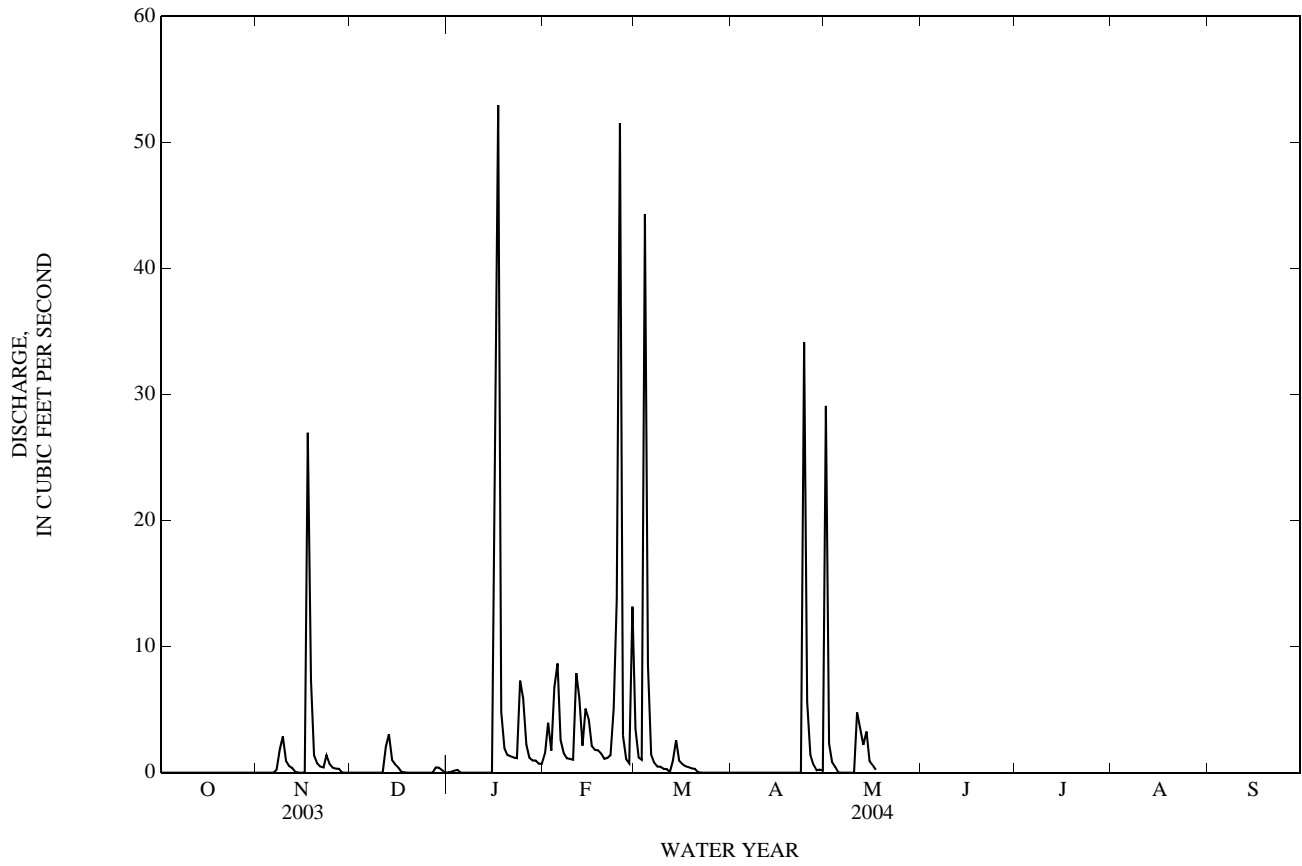
TRINITY RIVER BASIN

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.03	1.5	3.5	0.00	29	---	---	---	---
2	0.00	0.00	0.00	0.07	4.0	1.2	0.00	2.3	---	---	---	---
3	0.00	0.00	0.00	0.17	1.7	1.0	0.00	0.83	---	---	---	---
4	0.00	0.00	0.00	0.21	6.8	44	0.00	0.45	---	---	---	---
5	0.00	0.00	0.00	0.00	8.7	8.5	0.00	0.01	---	---	---	---
6	0.00	0.00	0.00	0.00	2.6	1.4	0.00	0.00	---	---	---	---
7	0.00	0.22	0.00	0.00	1.5	0.80	0.00	0.00	---	---	---	---
8	0.00	1.9	0.00	0.00	1.1	0.48	0.00	0.00	---	---	---	---
9	0.00	2.9	0.00	0.00	1.1	0.47	0.00	0.00	---	---	---	---
10	0.00	0.92	0.00	0.00	1.0	0.30	0.00	0.00	---	---	---	---
11	0.00	0.53	0.00	0.00	7.9	0.28	0.00	4.8	---	---	---	---
12	0.00	0.37	2.1	0.00	5.9	0.05	0.00	3.4	---	---	---	---
13	0.00	0.06	3.0	0.00	2.1	0.96	0.00	2.2	---	---	---	---
14	0.00	0.00	1.00	0.00	5.1	2.6	0.00	3.3	---	---	---	---
15	0.00	0.00	0.66	0.00	4.2	0.95	0.00	0.91	---	---	---	---
16	0.00	0.00	0.41	40	2.1	0.69	0.00	0.58	---	---	---	---
17	0.00	27	0.06	53	1.8	0.50	0.00	0.23	---	---	---	---
18	0.00	7.3	0.02	4.8	1.8	0.44	0.00	---	---	---	---	---
19	0.00	1.4	0.00	1.9	1.5	0.34	0.00	---	---	---	---	---
20	0.00	0.74	0.00	1.4	1.1	0.31	0.00	---	---	---	---	---
21	0.00	0.48	0.00	1.3	1.2	0.05	0.00	---	---	---	---	---
22	0.00	0.40	0.00	1.2	1.4	0.00	0.00	---	---	---	---	---
23	0.00	1.4	0.00	1.2	5.1	0.00	0.00	---	---	---	---	---
24	0.00	0.67	0.00	7.3	14	0.00	34	---	---	---	---	---
25	0.00	0.40	0.00	5.9	52	0.00	5.6	---	---	---	---	---
26	0.00	0.32	0.00	2.2	2.9	0.00	1.4	---	---	---	---	---
27	0.00	0.31	0.00	1.2	1.1	0.00	0.64	---	---	---	---	---
28	0.00	0.00	0.42	0.96	0.74	0.00	0.19	---	---	---	---	---
29	0.00	0.00	0.40	0.97	13	0.00	0.25	---	---	---	---	---
30	0.00	0.00	0.21	0.71	---	0.00	0.18	---	---	---	---	---
31	0.00	---	0.00	0.70	---	0.00	---	---	---	---	---	---
TOTAL	0.00	47.32	8.28	125.22	154.94	68.82	42.26	---	---	---	---	---
MEAN	0.00	1.58	0.27	4.04	5.34	2.22	1.41	---	---	---	---	---
MAX	0.00	27	3.0	53	52	44	34	---	---	---	---	---
MIN	0.00	0.00	0.00	0.00	0.74	0.00	0.00	---	---	---	---	---
AC-FT	0.00	94	16	248	307	137	84	---	---	---	---	---

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

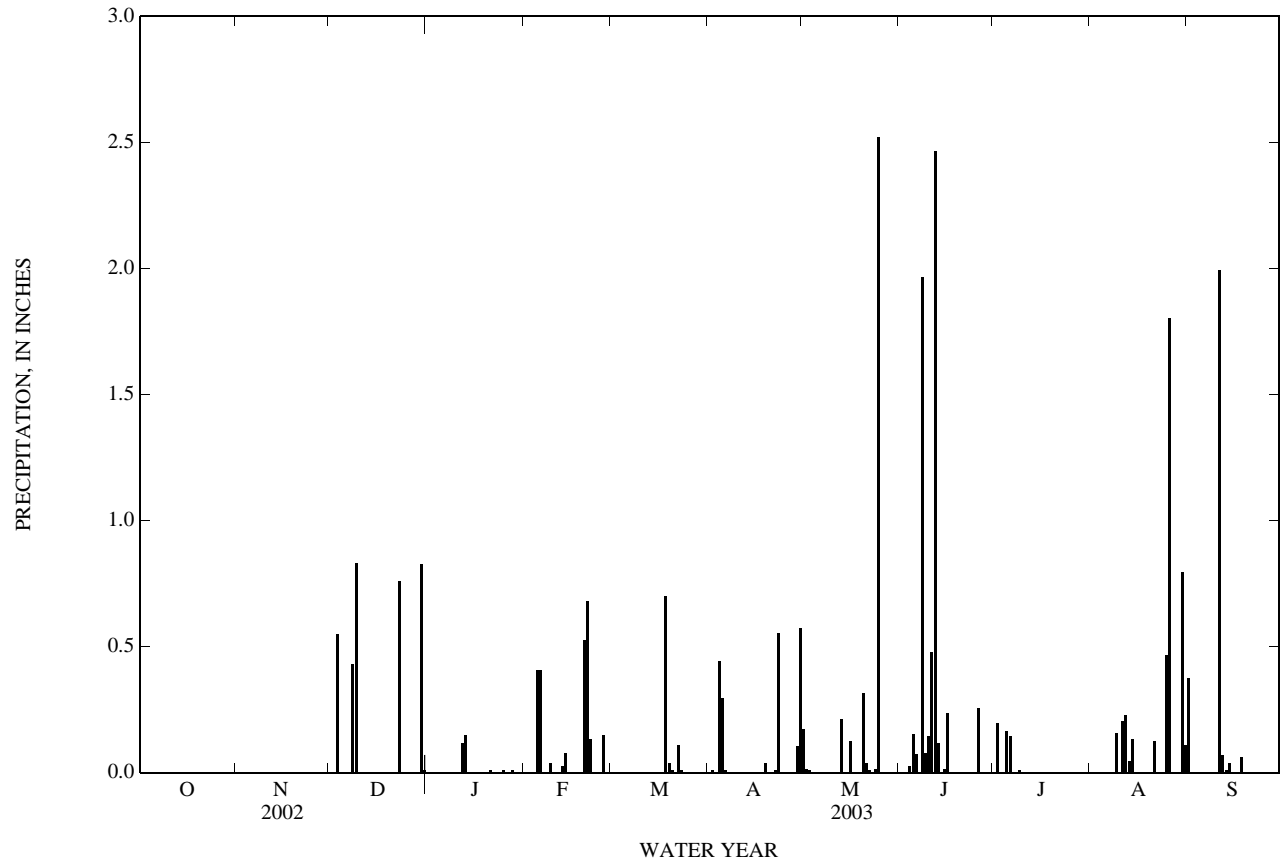


08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.000	0.000	0.000	0.000	0.000	0.172	0.000	0.000	0.000	0.376
2	---	---	0.000	0.000	0.000	0.000	0.008	0.016	0.000	0.197	0.000	0.000
3	---	---	0.550	0.000	0.000	0.000	0.000	0.008	0.000	0.000	0.000	0.000
4	---	---	0.000	0.000	0.000	0.000	0.443	0.000	0.025	0.000	0.000	0.000
5	---	---	0.000	0.000	0.408	0.000	0.295	0.000	0.152	0.164	0.000	0.000
6	---	---	0.000	0.000	0.407	0.000	0.008	0.000	0.073	0.146	0.000	0.000
7	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	---	---	0.431	0.000	0.000	0.000	0.000	0.000	1.965	0.000	0.000	0.000
9	---	---	0.831	0.000	0.039	0.000	0.000	0.000	0.079	0.008	0.157	0.000
10	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.146	0.000	0.000	0.000
11	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.478	0.000	0.205	1.995
12	---	---	0.000	0.118	0.000	0.000	0.000	0.000	2.464	0.000	0.228	0.070
13	---	---	0.000	0.149	0.024	0.000	0.000	0.213	0.117	0.000	0.047	0.008
14	---	---	0.000	0.000	0.078	0.000	0.000	0.000	0.000	0.000	0.133	0.039
15	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000
16	---	0.000	0.000	0.000	0.000	0.000	0.000	0.126	0.236	0.000	0.000	0.000
17	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	---	0.000	0.000	0.000	0.000	0.702	0.000	0.000	0.000	0.000	0.000	0.063
19	---	0.000	0.000	0.000	0.000	0.039	0.039	0.000	0.000	0.000	0.000	0.000
20	---	0.000	0.000	0.000	0.525	0.008	0.000	0.314	0.000	0.000	0.000	0.000
21	---	0.000	0.000	0.008	0.682	0.000	0.000	0.039	0.000	0.000	0.125	0.000
22	---	0.000	0.000	0.000	0.133	0.110	0.008	0.008	0.000	0.000	0.000	0.000
23	---	0.000	0.758	0.000	0.000	0.008	0.555	0.000	0.000	0.000	0.000	0.000
24	---	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000
25	---	0.000	0.000	0.008	0.000	0.000	0.000	2.520	0.000	0.000	0.467	0.000
26	---	0.000	0.000	0.000	0.149	0.000	0.000	0.000	0.256	0.000	1.802	0.000
27	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	---	0.000	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	---	0.000	0.000	0.000	---	0.000	0.105	0.000	0.000	0.000	0.000	0.000
30	---	0.000	0.826	0.000	---	0.000	0.573	0.000	0.000	0.000	0.796	0.000
31	---	---	0.008	0.000	---	0.000	---	0.000	---	0.000	0.110	---
TOTAL	---	---	3.404	0.291	2.445	0.867	2.034	3.432	6.007	0.515	4.070	2.551
MEAN	---	---	0.110	0.009	0.087	0.028	0.068	0.111	0.200	0.017	0.131	0.085
MAX	---	---	0.831	0.149	0.682	0.702	0.573	2.520	2.464	0.197	1.802	1.995
MIN	---	---	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued



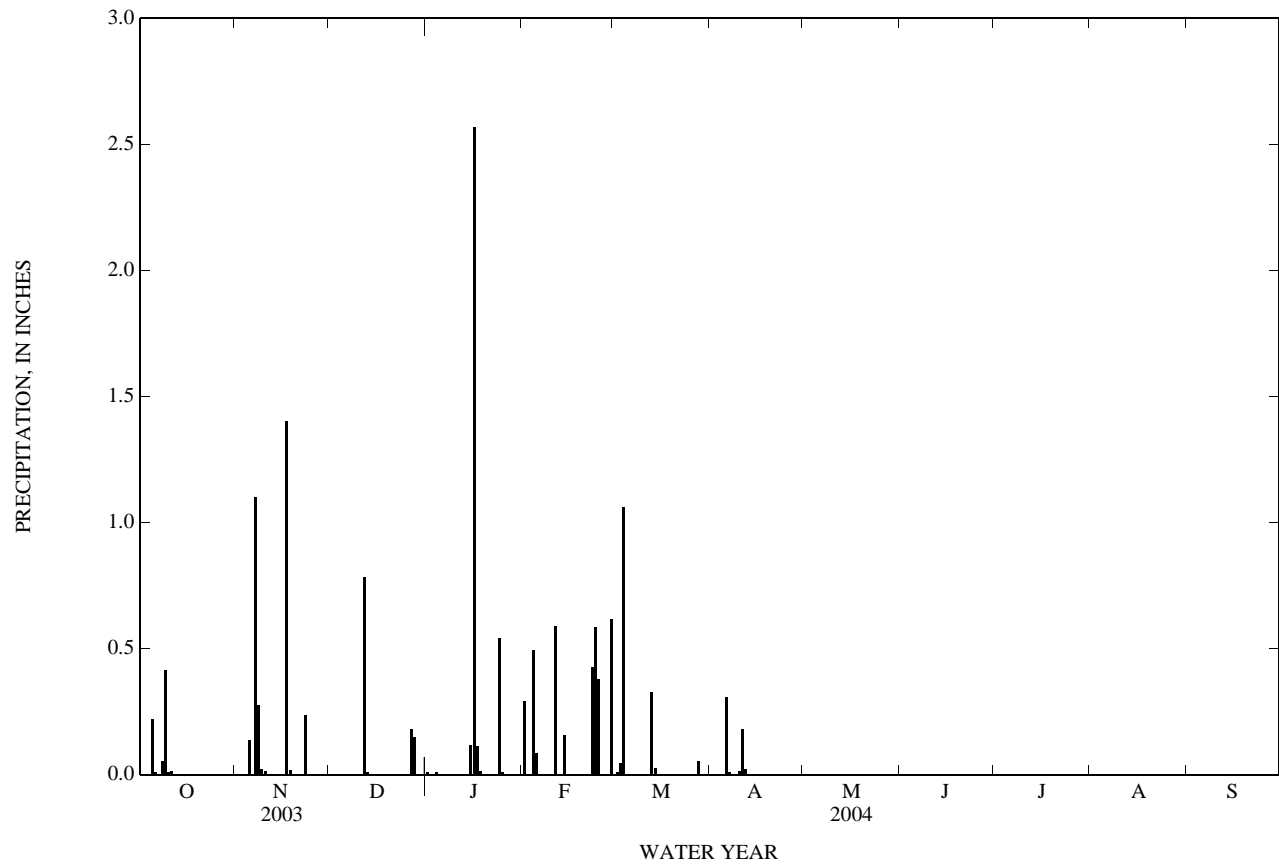
08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	0.000	0.000	0.008	0.291	0.000	0.000	---	---	---	---	---
2	0.000	0.000	0.000	0.000	0.000	0.008	0.000	---	---	---	---	---
3	0.000	0.000	0.000	0.000	0.000	0.047	0.000	---	---	---	---	---
4	0.000	0.000	0.000	0.008	0.495	1.063	0.000	---	---	---	---	---
5	0.219	e0.135	0.000	0.000	0.086	0.000	0.000	---	---	---	---	---
6	0.008	e0.000	0.000	0.000	0.000	0.000	0.306	---	---	---	---	---
7	0.000	e1.10	e0.000	0.000	0.000	0.000	0.008	---	---	---	---	---
8	0.055	e0.275	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
9	0.416	e0.023	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
10	0.008	e0.014	0.000	0.000	0.000	0.000	0.015	---	---	---	---	---
11	0.015	0.000	0.000	0.000	0.588	0.000	0.181	---	---	---	---	---
12	0.000	0.000	0.785	0.000	0.000	0.000	0.023	---	---	---	---	---
13	0.000	0.000	0.008	0.000	0.000	0.329	0.000	---	---	---	---	---
14	0.000	0.000	0.000	0.000	0.157	0.024	0.000	---	---	---	---	---
15	0.000	0.000	0.000	0.118	0.000	0.000	0.000	---	---	---	---	---
16	0.000	0.000	0.000	2.570	0.000	0.000	---	---	---	---	---	---
17	0.000	1.402	0.000	0.113	0.000	0.000	---	---	---	---	---	---
18	0.000	0.018	0.000	0.012	0.000	0.000	---	---	---	---	---	---
19	0.000	0.000	0.000	e0.000	0.000	0.000	---	---	---	---	---	---
20	0.000	0.000	0.000	e0.000	0.000	0.000	---	---	---	---	---	---
21	0.000	0.000	0.000	e0.000	0.000	0.000	---	---	---	---	---	---
22	0.000	0.000	0.000	e0.000	0.000	0.000	---	---	---	---	---	---
23	0.000	0.237	0.000	e0.000	0.427	0.000	---	---	---	---	---	---
24	0.000	0.000	0.000	0.541	0.583	e0.000	---	---	---	---	---	---
25	0.000	0.000	0.000	0.008	0.379	0.000	---	---	---	---	---	---
26	0.000	0.000	0.000	0.000	0.001	0.000	---	---	---	---	---	---
27	0.000	0.000	0.180	0.000	0.000	0.000	---	---	---	---	---	---
28	0.000	0.000	0.149	0.000	0.000	0.055	---	---	---	---	---	---
29	0.000	0.000	0.000	0.000	0.619	0.000	---	---	---	---	---	---
30	0.000	0.000	0.000	0.000	---	0.000	---	---	---	---	---	---
31	0.000	---	0.000	0.000	---	0.000	---	---	---	---	---	---
TOTAL	0.721	3.204	1.122	3.378	3.626	1.526	---	---	---	---	---	---
MEAN	0.023	0.107	0.036	0.109	0.125	0.049	---	---	---	---	---	---
MAX	0.416	1.402	0.785	2.570	0.619	1.063	---	---	---	---	---	---
MIN	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---	---

e Estimated

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued



08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical data: Nov. 2002 to Mar. 2004 (discontinued).

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2002 to Apr. 2004 (discontinued). Water temperature: Oct. 2002 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 2002.

REMARKS.--Records good. Interruption in the record was caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum (2003 WY), 30.19 °C, June 19, maximum (2004 WY), 22.04 °C, Mar. 20; minimum (2003 WY), 5.50 °C, Jan. 23, minimum (2004 WY), 5.65 °C, Feb. 14.

DISSOLVED OXYGEN: Maximum (2003 WY), 13.82 mg/L, Feb. 27, maximum (2004 WY), 13.87 mg/L, Jan. 6; minimum (2003 WY), 0.29 mg/L, May 15, minimum (2004 WY), 0.98 mg/L, Oct. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
NOV 20-					
DEC 05	1150	--	S11	--	--
DEC 05-11	1647	--	<9	--	--
DEC 11-24	1021	--	<9	--	--
DEC 24-31	1207	--	S20	--	--
30...	1325	--	S19	<18.0	<18.0
30...	1407	--	S16	--	--
30...	1442	--	S15	--	--
30...	1458	--	S15	--	--
30...	1512	--	S13	--	--
30...	1524	--	S18	<18.0	<18.0
30...	1615	--	S12	<18.0	<18.0
30...	1808	2.1	S18	<18.0	<18.0
30...	2050	4.1	S23	<18.0	<18.0
31...	0212	--	S15	<18.0	<18.0
DEC 31					
2002-					
JAN 13					
2003	1531	--	S24	--	--
12...	1518	--	S14	<18.0	<18.0
12...	1703	--	<9	--	--
12...	1839	--	S13	--	--
12...	2002	--	S11	<18.0	<18.0
12...	2125	--	S10	--	--
12...	2250	--	S10	--	--
13...	0154	--	S10	<18.0	<18.0
13...	0524	--	S11	<18.0	<18.0
13...	0724	<2.0	S11	--	--
13...	0846	<2.0	<9	<18.0	<18.0
JAN 13-21	1102	--	S16	--	--
JAN 21-					
FEB 07	1347	--	S15	--	--
FEB 07-20	1154	--	S17	--	--
FEB 20-24	1032	--	S24	--	--
26...	1735	--	S23	--	--

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
FEB 26- MAR 05	1952	--	48	--	--
FEB 26...	2140	--	S18	--	--
27...	0134	--	S20	<18.0	<18.0
27...	0932	6.8	S23	<18.0	S21.0
27...	1603	>8.8	S22	<18.0	<18.0
27...	2222	>9.0	38	<18.0	<18.0
28...	1125	>8.8	47	<18.0	S38.0
28...	1515	--	43	--	--
28...	2202	--	50	--	--
MAR 01...	1055	--	48	--	--
MAR 05-11	1014	--	51	--	--
MAR 11-21	1036	--	S21	--	--
MAR 21- APR 01	1057	--	S23	--	--
APR 04-08	1412	--	39	--	--

Remark codes used in this table:

< -- Less than

> -- Greater than

S -- Most probable value

TRINITY RIVER BASIN

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
OCT 28- NOV 10	1255	--	S16	--	--
NOV 10-19	1155	--	S16	--	--
NOV 19-24	1017	--	S16	--	--
NOV 24- DEC 01	1105	--	S20	--	--
DEC 01-16	1311	--	S19	--	--
DEC 16-22	0915	--	S26	--	--
DEC 22-30	1103	--	S19	--	--
DEC 30 2003- JAN 20 2004	1201	--	S17	--	--
JAN 20-26	1246	--	S24	--	--
JAN 26- FEB 02	1314	--	S18	--	--
FEB 02-09	1148	--	S24	--	--
FEB 09-13	1226	--	S19	--	--
FEB 13-17	1543	--	S26	--	--
14...	1545	--	64	--	--
14...	1546	--	30	--	--
14...	1802	--	S13	<18.0	<18.0
14...	2256	--	S14	--	--
15...	0108	--	<9	<18.0	<18.0
15...	0346	--	S25	--	--
15...	0756	<2.0	S27	<18.0	<18.0
15...	1350	--	29	--	--
15...	1447	--	S27	--	--
15...	1805	--	34	--	--
15...	2341	3.1	33	<18.0	<18.0
16...	0406	--	S26	--	--
16...	0915	3.3	S27	<18.0	<18.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Time	COD, low level, water, unfltrd mg/L (00335)
FEB 17-23	1305	S17
FEB 23-26	1202	S22
FEB 26- MAR 05	0924	S21
MAR 05-15	1113	S20
MAR 15-22	1301	31

Remark codes used in this table:

< -- Less than

S -- Most probable value

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

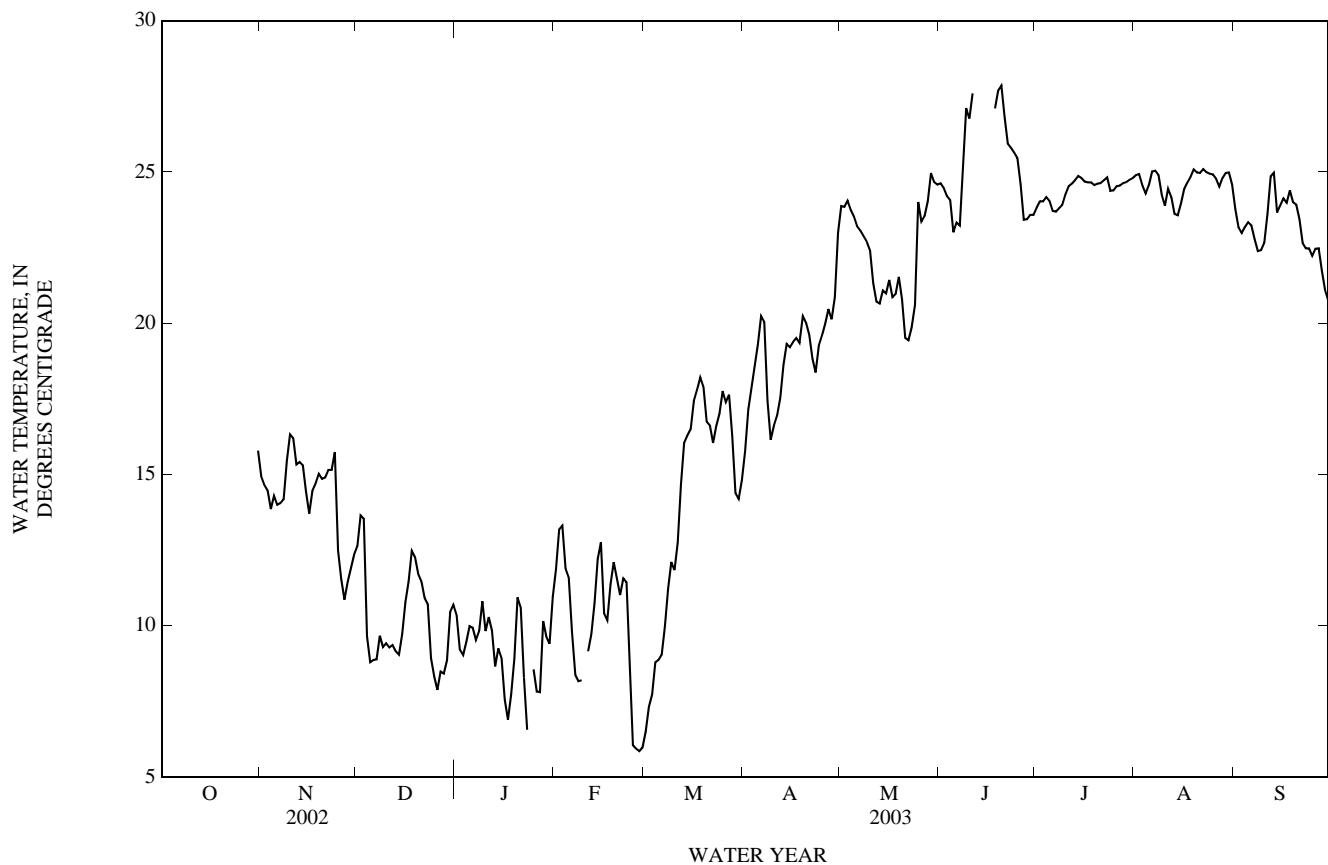
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	15.34	14.62	14.94	13.90	11.82	12.63	11.22	9.74	10.36
2	---	---	---	14.98	14.35	14.65	15.43	12.63	13.65	9.93	8.53	9.22
3	---	---	---	14.89	14.01	14.47	14.05	10.20	13.54	10.00	8.21	9.03
4	---	---	---	14.12	13.49	13.85	10.20	8.60	9.65	10.65	8.72	9.47
5	---	---	---	15.21	13.65	14.30	9.62	7.99	8.80	11.51	8.85	9.98
6	---	---	---	15.22	13.08	14.00	10.02	8.02	8.87	11.03	9.03	9.93
7	---	---	---	15.11	13.20	14.05	9.74	8.13	8.89	10.74	8.58	9.52
8	---	---	---	15.40	12.90	14.18	10.16	9.18	9.67	11.02	8.70	9.82
9	---	---	---	16.60	14.46	15.45	9.75	9.05	9.29	12.15	10.07	10.81
10	---	---	---	17.71	15.15	16.33	9.65	9.21	9.42	10.61	9.05	9.83
11	---	---	---	16.86	15.39	16.20	9.46	9.01	9.28	10.73	9.83	10.29
12	---	---	---	16.11	14.44	15.32	9.57	9.11	9.36	10.76	8.60	9.84
13	---	---	---	16.79	14.48	15.41	10.15	8.60	9.16	9.28	8.39	8.66
14	---	---	---	16.44	14.62	15.30	9.96	8.22	9.04	11.06	8.03	9.25
15	---	---	---	15.32	13.79	14.42	11.23	8.63	9.73	9.26	8.67	8.93
16	---	---	---	14.51	12.98	13.71	11.60	10.29	10.78	8.71	6.61	7.55
17	---	---	---	16.36	13.42	14.46	12.83	10.13	11.46	7.56	6.32	6.89
18	---	---	---	15.66	14.18	14.70	12.72	12.23	12.48	8.46	6.94	7.73
19	---	---	---	16.81	14.04	15.02	13.13	11.78	12.27	10.71	7.71	8.91
20	---	---	---	16.11	14.01	14.85	12.56	11.08	11.72	12.85	9.53	10.94
21	---	---	---	16.20	13.89	14.90	12.22	10.81	11.47	12.19	8.83	10.61
22	---	---	---	16.43	14.41	15.15	11.52	10.21	10.92	8.83	7.17	8.29
23	---	---	---	16.89	14.07	15.15	11.53	9.83	10.71	7.26	5.50	6.56
24	---	---	---	17.49	14.49	15.74	9.86	8.06	8.94	---	---	---
25	---	---	---	14.49	11.90	12.49	9.77	7.75	8.32	9.02	8.02	8.56
26	---	---	---	12.08	10.89	11.54	8.32	7.53	7.88	9.23	6.45	7.82
27	---	---	---	11.98	10.18	10.86	10.31	7.15	8.49	9.36	6.82	7.80
28	---	---	---	13.60	10.44	11.47	9.49	7.47	8.42	11.65	9.15	10.16
29	---	---	---	12.73	11.01	11.92	9.78	7.96	8.86	11.48	8.64	9.64
30	---	---	---	12.86	11.99	12.36	11.90	9.78	10.46	10.11	8.76	9.41
31	16.41	15.34	15.79	---	---	---	11.28	10.27	10.69	11.76	10.11	10.95
MONTH	---	---	---	17.71	10.18	14.24	15.43	7.15	10.16	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	13.17	10.99	11.86	6.83	6.17	6.50	18.03	14.48	15.76	25.00	22.94	23.88
2	14.56	12.22	13.18	8.56	6.71	7.33	19.59	15.68	17.14	24.65	23.21	23.85
3	14.19	12.00	13.31	8.37	7.30	7.72	18.48	17.34	17.82	24.94	23.17	24.05
4	12.69	11.16	11.89	9.92	7.99	8.79	19.45	17.81	18.57	24.29	23.21	23.74
5	11.82	10.40	11.59	9.81	8.26	8.87	20.19	18.36	19.30	24.61	23.11	23.53
6	10.40	8.81	9.81	10.91	7.86	9.05	21.64	19.28	20.24	23.93	22.75	23.20
7	9.36	7.39	8.38	11.42	8.76	9.98	22.19	18.69	20.04	24.19	22.14	23.06
8	8.31	8.02	8.17	12.00	10.62	11.23	18.69	15.90	17.45	23.30	22.54	22.88
9	8.59	8.01	8.20	13.84	10.84	12.11	17.63	14.58	16.15	23.49	22.15	22.69
10	---	---	---	12.56	11.10	11.84	18.50	15.23	16.61	22.75	22.17	22.41
11	10.29	8.36	9.15	14.07	11.36	12.75	18.17	15.98	16.94	22.21	20.55	21.32
12	10.39	8.97	9.72	15.82	13.84	14.65	19.36	16.23	17.53	21.78	19.88	20.72
13	11.41	10.20	10.74	17.07	15.38	16.04	20.22	17.48	18.62	21.23	20.16	20.66
14	13.04	11.41	12.21	17.85	15.20	16.29	20.99	18.16	19.32	21.89	20.50	21.08
15	13.25	11.47	12.76	18.35	15.28	16.50	19.60	18.83	19.21	21.21	20.78	20.99
16	11.47	9.86	10.41	19.15	16.37	17.43	21.11	18.39	19.38	22.75	20.75	21.43
17	11.22	9.16	10.18	18.74	17.02	17.79	20.75	18.45	19.51	21.42	20.37	20.87
18	12.49	10.41	11.37	18.62	17.50	18.22	19.97	18.85	19.35	22.41	19.95	20.97
19	12.64	11.69	12.10	18.50	17.46	17.90	21.92	19.22	20.23	23.12	20.50	21.53
20	11.82	11.13	11.53	17.60	16.01	16.75	20.71	19.16	20.02	21.78	19.92	20.78
21	11.13	10.91	11.02	18.63	15.09	16.62	21.29	18.41	19.62	19.92	19.38	19.51
22	13.15	10.59	11.57	16.69	15.52	16.04	19.65	18.56	18.84	19.81	19.12	19.43
23	12.16	10.47	11.44	18.01	15.36	16.61	18.56	18.26	18.38	21.08	18.96	19.86
24	10.47	5.69	8.57	18.07	15.94	17.02	21.10	18.21	19.26	21.73	19.88	20.61
25	6.46	5.62	6.05	19.01	17.05	17.75	21.29	18.44	19.60	25.05	20.55	24.00
26	6.32	5.68	5.94	19.07	16.29	17.39	21.87	18.67	19.99	24.51	22.72	23.36
27	6.02	5.70	5.85	19.19	16.53	17.64	22.12	19.29	20.47	25.76	22.28	23.55
28	6.31	5.70	5.98	17.97	14.91	16.26	20.60	19.80	20.13	26.47	22.39	24.04
29	---	---	---	14.91	13.90	14.38	22.88	19.63	20.86	26.94	23.33	24.96
30	---	---	---	16.10	12.96	14.19	24.25	20.65	22.99	26.06	23.32	24.67
31	---	---	---	16.65	13.56	14.81	---	---	---	26.47	23.15	24.58
MONTH	---	---	---	19.19	6.17	14.08	24.25	14.48	18.98	26.94	18.96	22.33

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.23	23.37	24.62	24.69	23.13	23.82	25.79	24.19	24.90	24.36	23.37	23.77
2	25.60	23.61	24.47	24.76	23.39	24.03	25.75	24.25	24.93	23.40	22.84	23.16
3	25.64	23.11	24.21	24.70	23.32	24.03	25.12	24.28	24.55	23.40	22.50	22.98
4	25.16	23.15	24.07	24.94	23.49	24.17	25.12	23.59	24.29	23.63	22.84	23.18
5	24.06	22.27	23.01	24.43	23.58	24.04	25.42	23.83	24.57	24.13	22.68	23.34
6	25.45	21.67	23.33	24.08	23.40	23.72	26.09	24.20	25.02	23.85	22.53	23.24
7	24.62	22.10	23.23	24.39	23.11	23.69	25.75	24.33	25.04	23.30	22.05	22.78
8	28.03	22.26	25.11	24.44	23.27	23.81	25.31	24.51	24.90	22.83	21.77	22.38
9	28.15	26.30	27.11	24.66	23.28	23.92	24.92	23.75	24.26	22.98	21.77	22.42
10	27.38	26.13	26.76	25.19	23.56	24.27	24.91	23.08	23.88	23.04	22.26	22.66
11	28.30	26.13	27.60	25.37	23.74	24.53	25.46	23.73	24.45	26.13	22.55	23.62
12	---	---	---	25.42	23.80	24.61	24.71	23.57	24.17	25.63	23.99	24.85
13	---	---	---	25.48	24.03	24.73	24.04	23.09	23.61	27.32	23.45	24.97
14	---	---	---	25.80	24.06	24.87	24.35	22.92	23.57	25.19	22.88	23.66
15	---	---	---	25.42	24.07	24.80	25.01	23.11	23.95	26.14	22.28	23.90
16	---	---	---	25.34	24.03	24.68	25.43	23.64	24.43	24.93	23.16	24.13
17	---	---	---	25.39	23.96	24.66	25.40	23.90	24.65	24.56	23.38	23.98
18	29.58	25.77	27.10	25.37	24.02	24.66	25.60	24.16	24.83	25.55	23.70	24.39
19	30.19	26.10	27.69	25.11	23.99	24.57	26.01	24.34	25.08	25.29	22.95	24.00
20	29.72	26.45	27.85	25.37	23.93	24.61	25.35	24.49	24.98	25.28	22.53	23.92
21	27.78	26.07	26.82	25.29	24.00	24.63	25.64	24.33	24.97	24.28	23.07	23.44
22	26.81	25.03	25.94	25.42	24.07	24.72	25.90	24.44	25.10	23.09	22.03	22.65
23	26.89	24.87	25.80	25.47	24.27	24.82	25.61	24.32	24.99	22.92	21.99	22.47
24	26.31	24.94	25.64	24.98	23.73	24.38	25.52	24.32	24.94	22.83	22.10	22.48
25	26.07	24.81	25.46	25.01	23.84	24.39	25.54	24.35	24.92	22.54	21.82	22.23
26	25.58	23.79	24.59	25.11	23.97	24.53	25.39	24.33	24.78	22.92	22.05	22.46
27	24.22	22.65	23.42	25.24	23.95	24.55	25.21	23.98	24.52	23.08	21.98	22.48
28	24.29	22.60	23.44	25.33	23.95	24.63	25.32	24.23	24.80	22.37	21.12	21.73
29	24.18	22.85	23.58	25.25	24.04	24.66	25.38	24.43	24.97	21.52	20.47	21.10
30	24.24	22.90	23.58	25.50	24.10	24.74	25.37	24.60	24.98	21.16	20.14	20.75
31	---	---	---	25.34	24.24	24.80	25.08	24.36	24.58	---	---	---
MONTH	---	---	---	25.80	23.11	24.42	26.09	22.92	24.63	27.32	20.14	23.10



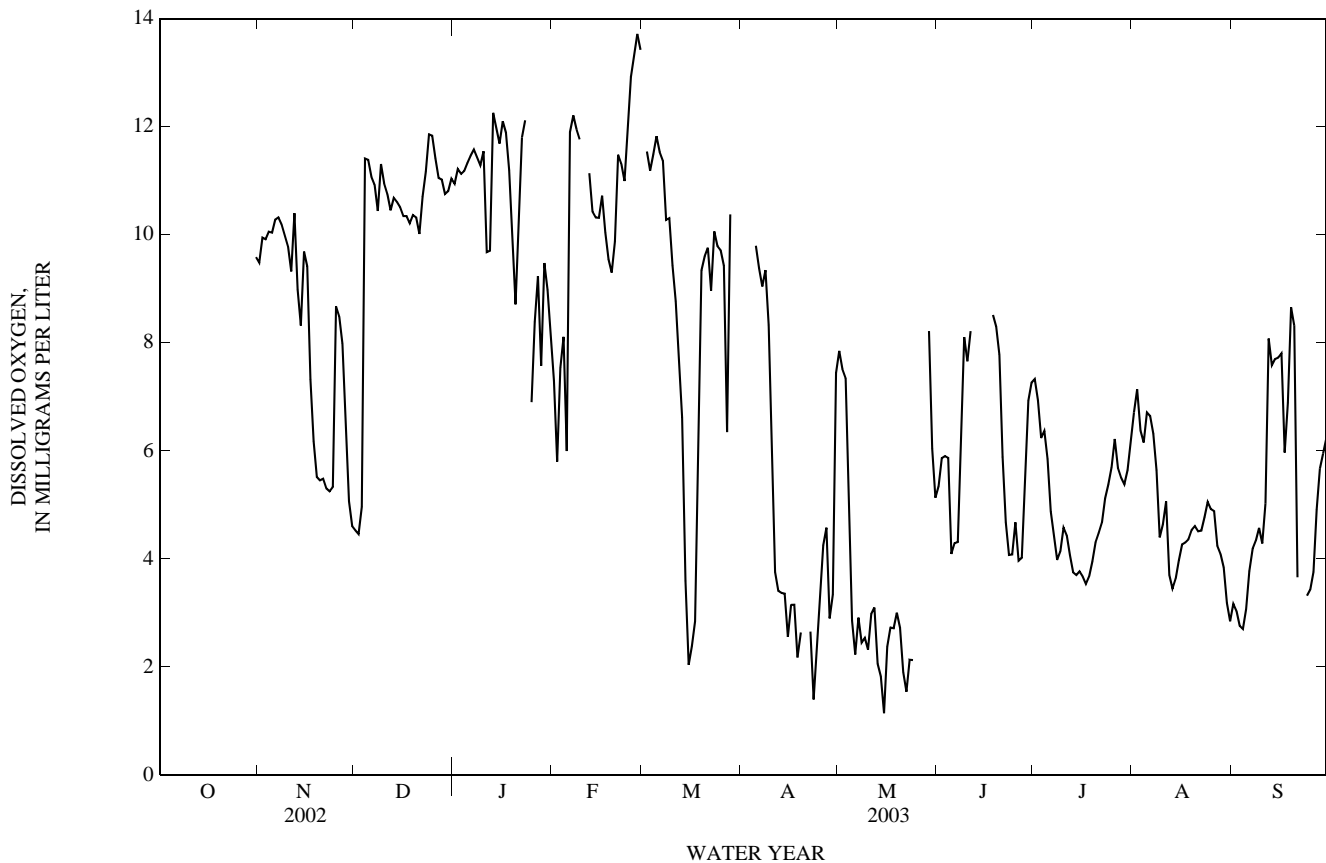
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	9.97	9.02	9.48	8.27	3.18	4.53	11.13	10.80	10.95
2	---	---	---	10.49	9.50	9.95	8.34	1.60	4.46	11.65	10.78	11.22
3	---	---	---	10.34	9.70	9.92	11.21	3.18	4.96	11.41	10.78	11.13
4	---	---	---	10.60	9.80	10.06	11.72	11.21	11.41	11.58	10.81	11.19
5	---	---	---	10.32	9.85	10.04	11.69	11.02	11.39	11.61	11.04	11.33
6	---	---	---	10.78	9.98	10.28	11.36	10.87	11.07	11.86	11.04	11.47
7	---	---	---	10.87	9.92	10.32	11.18	10.61	10.93	11.96	11.35	11.58
8	---	---	---	11.44	9.61	10.19	11.36	10.12	10.44	11.73	11.08	11.43
9	---	---	---	11.09	9.41	9.99	11.43	11.19	11.31	11.69	10.93	11.29
10	---	---	---	11.26	8.90	9.78	11.21	10.67	10.95	11.92	10.78	11.55
11	---	---	---	10.62	8.28	9.32	11.42	10.58	10.75	10.91	8.40	9.68
12	---	---	---	11.74	9.43	10.40	10.58	10.37	10.46	12.42	7.32	9.71
13	---	---	---	11.22	7.21	8.99	11.06	10.37	10.69	12.41	11.93	12.26
14	---	---	---	10.17	6.61	8.32	10.81	10.49	10.61	12.19	11.76	11.97
15	---	---	---	10.66	8.36	9.69	10.80	10.15	10.51	11.87	11.49	11.69
16	---	---	---	10.51	8.22	9.42	10.89	9.98	10.35	12.37	11.53	12.10
17	---	---	---	9.05	3.53	7.32	10.77	9.94	10.35	12.33	10.76	11.89
18	---	---	---	8.79	4.66	6.18	10.65	9.88	10.21	12.12	9.41	11.20
19	---	---	---	7.00	4.15	5.52	10.72	10.12	10.37	11.31	7.52	9.95
20	---	---	---	7.82	3.68	5.45	10.75	9.74	10.32	9.74	7.59	8.71
21	---	---	---	6.99	3.95	5.48	10.77	9.19	10.02	12.12	8.04	10.51
22	---	---	---	6.45	4.24	5.30	11.15	10.26	10.71	12.87	11.36	11.80
23	---	---	---	8.01	3.67	5.25	11.63	9.88	11.17	12.66	11.04	12.12
24	---	---	---	8.04	2.72	5.33	12.10	11.62	11.86	---	---	---
25	---	---	---	9.30	7.66	8.68	12.02	11.60	11.83	8.83	5.94	6.90
26	---	---	---	9.37	7.61	8.49	11.79	10.96	11.42	11.75	4.91	8.39
27	---	---	---	9.06	7.08	7.98	11.30	10.82	11.05	10.30	8.17	9.24
28	---	---	---	7.12	5.38	6.24	11.30	10.70	11.02	8.43	6.91	7.57
29	---	---	---	7.83	2.91	5.07	10.99	10.49	10.76	11.58	6.55	9.48
30	---	---	---	6.25	2.59	4.61	11.34	10.38	10.81	10.47	6.10	8.98
31	10.33	9.08	9.58	---	---	---	11.16	10.91	11.04	10.10	6.10	8.13
MONTH	---	---	---	11.74	2.59	8.10	12.10	1.60	10.25	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	8.67	6.35	7.30	13.10	12.09	---	---	---	---	8.70	7.16	7.85
2	6.73	2.79	5.80	12.23	10.78	11.54	---	---	---	8.62	6.65	7.51
3	10.40	4.15	7.54	11.54	10.84	11.19	---	---	---	8.57	6.00	7.35
4	9.44	6.72	8.11	12.31	11.03	11.49	---	---	---	6.63	3.88	5.36
5	11.21	3.81	6.00	12.40	11.58	11.82	9.97	9.51	9.80	4.49	1.50	2.86
6	12.15	11.21	11.90	11.85	11.11	11.53	9.57	9.16	9.38	4.14	1.10	2.23
7	12.44	11.86	12.21	11.71	10.66	11.37	9.50	8.74	9.04	5.61	1.24	2.91
8	12.27	11.76	11.95	10.77	9.87	10.28	9.63	8.90	9.35	3.91	1.32	2.45
9	12.19	11.37	11.77	11.12	9.33	10.31	9.97	6.33	8.33	4.57	1.39	2.54
10	---	---	---	9.92	8.70	9.43	7.10	2.95	5.47	3.08	1.65	2.32
11	---	---	---	9.48	7.14	8.77	5.74	2.16	3.76	5.75	1.65	2.98
12	11.83	10.60	11.14	8.27	6.97	7.57	6.09	1.68	3.41	5.07	1.75	3.10
13	10.85	9.98	10.43	7.81	3.80	6.62	6.31	1.48	3.37	3.20	0.60	2.06
14	10.64	10.00	10.32	5.64	1.32	3.59	6.53	1.23	3.36	3.31	0.48	1.83
15	10.60	9.94	10.32	4.74	0.82	2.04	4.12	1.25	2.56	1.88	0.29	1.15
16	11.30	9.97	10.72	5.20	0.59	2.38	6.79	1.07	3.15	5.16	0.55	2.37
17	10.67	9.69	10.04	4.95	1.62	2.85	5.85	1.33	3.15	4.64	1.15	2.73
18	9.76	8.97	9.55	9.46	1.57	7.39	3.93	1.15	2.18	4.73	0.83	2.72
19	10.59	7.18	9.30	9.59	9.20	9.34	6.04	0.61	2.64	4.99	0.70	3.00
20	11.61	7.59	9.88	9.79	9.29	9.60	---	---	---	3.76	1.76	2.73
21	11.58	11.42	11.48	10.67	8.33	9.76	---	---	---	2.57	1.25	1.90
22	11.68	10.97	11.32	10.08	7.14	8.97	4.10	1.68	2.66	3.08	0.50	1.54
23	11.36	10.89	11.00	10.57	9.40	10.06	1.98	0.75	1.40	3.86	0.38	2.13
24	13.14	11.27	12.04	10.76	9.18	9.79	6.34	0.47	2.56	3.53	0.32	2.13
25	13.24	12.56	12.92	10.73	8.97	9.71	7.38	1.16	3.48	---	---	---
26	13.75	12.69	13.31	11.11	6.96	9.43	8.68	1.54	4.25	---	---	---
27	13.82	13.48	13.72	9.13	3.92	6.35	8.57	1.90	4.58	---	---	---
28	13.70	13.04	13.43	11.25	8.66	10.38	4.35	1.79	2.90	---	---	---
29	---	---	---	---	---	---	6.88	0.97	3.34	10.14	6.85	8.22
30	---	---	---	---	---	---	9.34	3.13	7.44	8.51	4.03	6.04
31	---	---	---	---	---	---	---	---	---	8.39	2.63	5.14
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.67	2.65	5.35	9.73	4.83	7.33	9.21	4.47	6.71	4.62	2.09	3.17
2	9.33	3.22	5.86	9.17	4.30	6.94	9.41	5.02	7.14	3.98	2.00	3.04
3	8.96	3.30	5.90	8.71	3.37	6.24	7.88	5.12	6.38	3.76	1.80	2.76
4	8.56	3.46	5.87	8.89	3.76	6.37	8.31	4.15	6.16	3.66	1.76	2.70
5	6.26	2.94	4.09	7.91	3.78	5.85	8.77	4.80	6.71	4.93	1.66	3.07
6	7.25	1.52	4.29	6.45	3.39	4.88	8.47	4.94	6.65	5.38	2.36	3.77
7	6.63	2.01	4.31	6.02	2.81	4.42	7.88	4.66	6.32	5.86	2.66	4.19
8	8.61	2.92	6.37	5.70	2.35	3.98	6.69	4.43	5.64	5.92	2.98	4.34
9	8.83	7.54	8.11	6.52	2.10	4.14	5.58	3.82	4.40	6.03	2.95	4.57
10	9.14	5.56	7.66	6.66	2.54	4.58	6.39	3.39	4.64	5.39	3.33	4.29
11	8.42	6.87	8.22	6.30	2.42	4.44	6.12	4.03	5.06	8.41	2.48	5.03
12	---	---	---	5.88	2.09	4.07	4.80	2.29	3.70	8.33	7.84	8.08
13	---	---	---	5.39	1.92	3.75	4.95	1.59	3.45	7.84	7.42	7.58
14	---	---	---	5.82	1.64	3.70	5.55	1.81	3.64	8.23	7.30	7.70
15	---	---	---	6.01	1.93	3.77	5.85	2.11	3.98	8.86	7.02	7.73
16	---	---	---	5.16	1.67	3.68	6.32	2.48	4.27	8.98	7.00	7.80
17	---	---	---	5.23	1.98	3.54	6.24	2.48	4.31	7.25	4.51	5.97
18	9.06	7.90	8.52	5.55	1.91	3.68	6.44	2.53	4.36	9.08	4.98	6.89
19	9.50	7.47	8.30	5.88	2.13	3.95	6.87	2.59	4.54	8.87	8.30	8.66
20	9.69	6.69	7.78	6.25	2.59	4.31	6.39	2.63	4.61	9.30	6.27	8.32
21	8.01	3.98	5.89	6.50	2.42	4.48	6.43	2.73	4.51	6.27	1.88	3.66
22	6.66	2.41	4.68	6.66	2.69	4.67	6.83	2.05	4.53	---	---	---
23	6.23	1.84	4.07	7.57	3.15	5.13	6.97	2.67	4.77	---	---	---
24	6.39	1.66	4.08	7.72	3.36	5.38	7.26	2.81	5.06	5.22	1.43	3.32
25	7.25	2.27	4.68	8.12	3.42	5.69	7.14	3.28	4.92	5.00	1.88	3.43
26	5.49	2.76	3.97	8.44	3.79	6.22	7.38	2.88	4.89	5.90	1.87	3.76
27	6.78	1.82	4.02	7.47	2.94	5.68	5.94	2.61	4.25	8.05	2.46	4.92
28	8.65	3.11	5.68	7.26	3.54	5.51	5.80	2.39	4.10	8.77	3.30	5.67
29	9.71	4.29	6.93	7.27	3.52	5.38	5.01	2.45	3.84	8.27	3.66	5.95
30	9.92	4.72	7.26	7.89	3.50	5.64	4.71	1.93	3.18	8.28	4.10	6.23
31	---	---	---	8.11	3.95	6.14	3.88	2.00	2.84	---	---	---
MONTH	---	---	---	9.73	1.64	4.95	9.41	1.59	4.82	---	---	---



08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

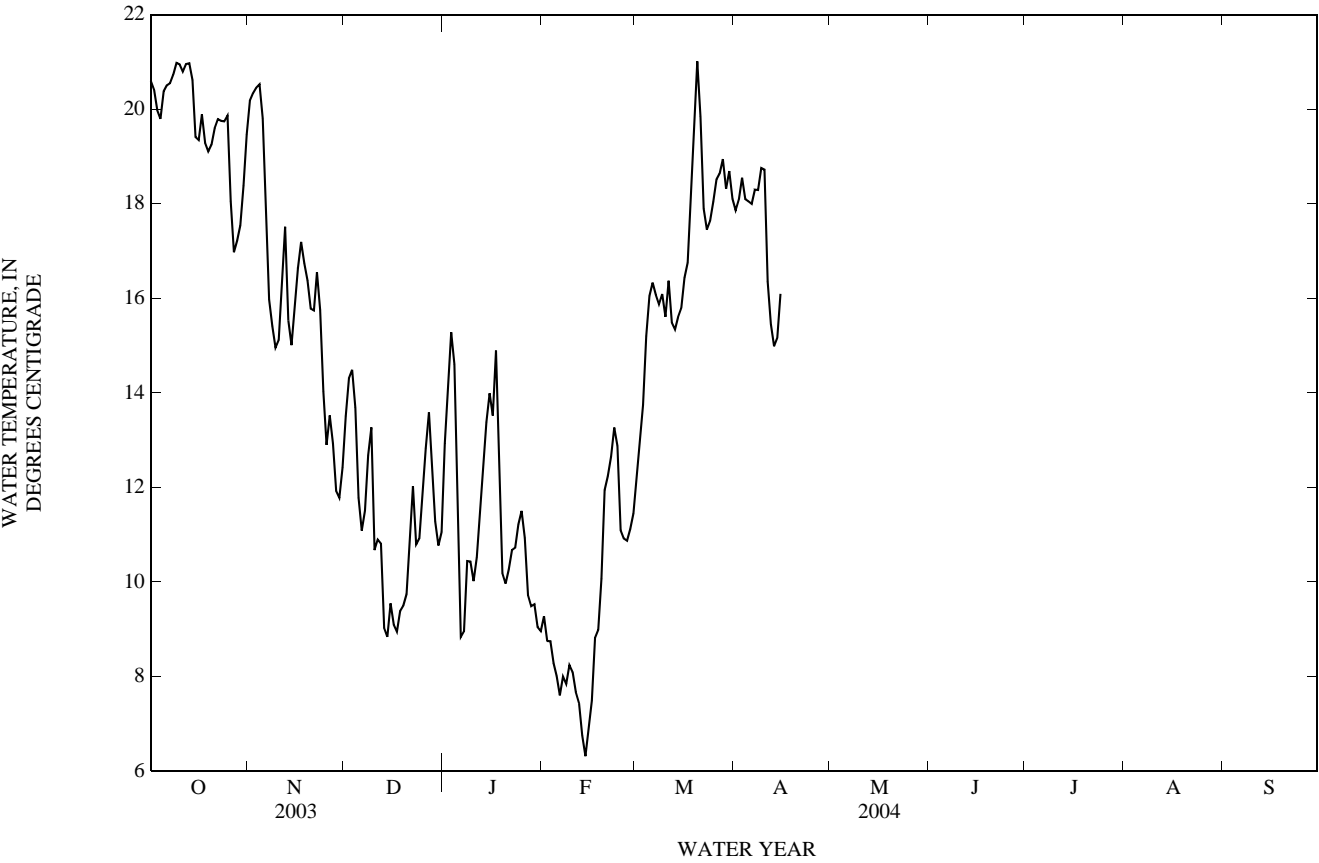
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.07	20.10	20.60	20.55	19.89	20.19	14.18	13.05	13.51	13.54	12.01	12.93
2	20.81	19.97	20.41	20.54	20.10	20.34	14.75	13.94	14.31	14.94	13.37	14.12
3	20.37	19.50	19.98	20.65	20.28	20.46	14.80	14.04	14.49	15.79	14.93	15.28
4	20.27	19.25	19.80	20.81	20.26	20.53	14.06	13.11	13.68	15.75	12.15	14.61
5	20.59	20.23	20.38	20.63	18.72	19.81	13.81	10.87	11.78	12.15	9.65	11.06
6	20.69	20.38	20.51	18.72	16.67	17.53	11.60	10.57	11.08	9.65	7.99	8.83
7	20.94	20.16	20.55	16.67	15.59	15.97	12.30	10.89	11.51	9.74	8.32	8.96
8	21.05	20.36	20.73	15.72	15.07	15.41	13.30	12.24	12.68	11.24	9.74	10.44
9	21.07	20.90	20.98	15.38	14.64	14.96	14.36	11.25	13.27	11.40	9.57	10.43
10	21.28	20.69	20.95	15.69	14.60	15.12	11.25	9.98	10.67	10.58	9.49	10.02
11	21.06	20.42	20.80	17.40	15.24	16.26	11.48	10.31	10.89	11.26	9.93	10.52
12	21.18	20.62	20.96	19.49	16.36	17.51	11.69	9.34	10.81	11.88	11.09	11.43
13	21.29	20.61	20.97	16.39	15.10	15.53	9.57	8.41	9.03	13.09	11.88	12.51
14	21.20	19.96	20.62	15.17	14.78	15.01	9.48	8.33	8.84	13.93	13.00	13.38
15	20.09	18.75	19.41	16.92	15.14	15.90	10.91	8.78	9.55	14.15	13.86	13.99
16	19.95	18.76	19.35	17.09	16.17	16.63	9.75	8.39	9.10	14.35	12.02	13.52
17	20.43	19.35	19.89	17.85	16.76	17.19	9.86	8.10	8.95	16.12	13.58	14.89
18	19.75	18.64	19.29	17.16	15.83	16.74	10.45	8.13	9.39	15.16	10.05	12.38
19	19.56	18.48	19.11	17.90	15.37	16.38	10.24	8.54	9.50	11.69	9.21	10.18
20	19.73	18.67	19.25	16.76	15.10	15.78	10.43	9.14	9.74	10.64	9.53	9.96
21	20.12	19.04	19.60	16.85	14.95	15.74	11.64	10.34	10.96	11.86	9.11	10.27
22	20.33	19.20	19.79	17.55	15.71	16.55	13.05	11.25	12.03	12.63	9.36	10.67
23	20.21	19.14	19.75	17.38	13.92	15.76	11.32	9.84	10.79	11.78	9.65	10.72
24	20.17	19.18	19.74	15.16	13.14	14.03	11.51	10.33	10.92	11.47	11.01	11.22
25	20.40	19.13	19.87	13.29	12.52	12.90	12.42	11.25	11.78	12.14	11.00	11.50
26	19.13	17.29	18.05	14.54	12.68	13.52	13.15	12.41	12.83	11.68	9.34	10.93
27	17.61	16.23	16.98	13.77	11.47	12.93	14.09	13.15	13.59	11.33	8.54	9.72
28	17.82	16.61	17.22	12.83	11.28	11.93	14.15	11.49	12.49	10.45	8.90	9.49
29	18.04	16.92	17.54	12.37	11.15	11.78	12.23	10.62	11.28	10.13	9.11	9.53
30	19.07	17.81	18.38	13.27	11.85	12.42	11.59	10.17	10.77	10.26	7.99	9.05
31	19.91	19.05	19.47	---	---	---	12.07	10.49	11.05	9.34	8.49	8.96
MONTH	21.29	16.23	19.71	20.81	11.15	16.03	14.80	8.10	11.33	16.12	7.99	11.34
FEBRUARY			MARCH			APRIL			MAY			
1	9.47	8.74	9.28	13.20	11.49	12.32	18.58	17.06	17.86	---	---	---
2	9.94	8.16	8.75	14.38	12.18	13.07	18.57	17.51	18.09	---	---	---
3	9.97	8.02	8.75	14.60	13.25	13.74	19.22	17.93	18.55	---	---	---
4	8.71	7.93	8.28	16.20	14.58	15.20	18.58	17.53	18.10	---	---	---
5	8.63	7.70	8.01	16.76	15.37	16.05	18.56	17.51	18.05	---	---	---
6	8.49	6.79	7.60	18.63	15.33	16.33	18.37	17.55	18.00	---	---	---
7	10.18	6.60	8.00	17.01	15.38	16.08	18.81	17.88	18.30	---	---	---
8	8.16	7.36	7.84	17.28	14.76	15.87	19.03	17.60	18.29	---	---	---
9	8.96	7.91	8.24	17.90	14.94	16.09	19.56	18.03	18.76	---	---	---
10	9.01	7.49	8.09	16.51	14.77	15.61	19.43	17.58	18.72	---	---	---
11	8.10	7.44	7.67	18.43	15.39	16.37	17.58	15.73	16.35	---	---	---
12	8.76	6.70	7.44	15.92	15.26	15.49	15.73	15.13	15.45	---	---	---
13	7.28	6.15	6.75	15.65	14.94	15.34	15.63	14.24	14.99	---	---	---
14	6.84	5.65	6.31	16.72	15.02	15.60	15.95	14.35	15.16	---	---	---
15	8.95	5.76	6.94	16.21	15.41	15.79	16.89	15.45	16.10	---	---	---
16	8.29	6.67	7.48	18.54	15.08	16.43	---	---	---	---	---	---
17	11.15	7.26	8.81	17.80	15.42	16.76	---	---	---	---	---	---
18	9.66	8.25	8.98	19.89	17.11	18.46	---	---	---	---	---	---
19	10.95	9.21	10.07	20.54	19.31	19.88	---	---	---	---	---	---
20	13.88	10.70	11.95	22.04	20.01	21.01	---	---	---	---	---	---
21	13.70	10.87	12.24	21.30	18.60	19.84	---	---	---	---	---	---
22	13.41	11.72	12.65	18.60	17.45	17.90	---	---	---	---	---	---
23	13.71	12.93	13.27	17.98	16.80	17.45	---	---	---	---	---	---
24	13.26	12.39	12.88	17.79	17.42	17.64	---	---	---	---	---	---
25	12.39	10.18	11.09	18.50	17.72	18.04	---	---	---	---	---	---
26	12.99	9.64	10.92	18.74	18.32	18.51	---	---	---	---	---	---
27	11.51	10.18	10.87	19.02	18.26	18.64	---	---	---	---	---	---
28	11.50	10.70	11.12	19.64	18.46	18.94	---	---	---	---	---	---
29	12.03	11.10	11.45	19.20	17.38	18.32	---	---	---	---	---	---
30	---	---	---	20.33	17.32	18.69	---	---	---	---	---	---
31	---	---	---	18.95	17.35	18.10	---	---	---	---	---	---
MONTH	13.88	5.65	9.37	22.04	11.49	16.89	---	---	---	---	---	---

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

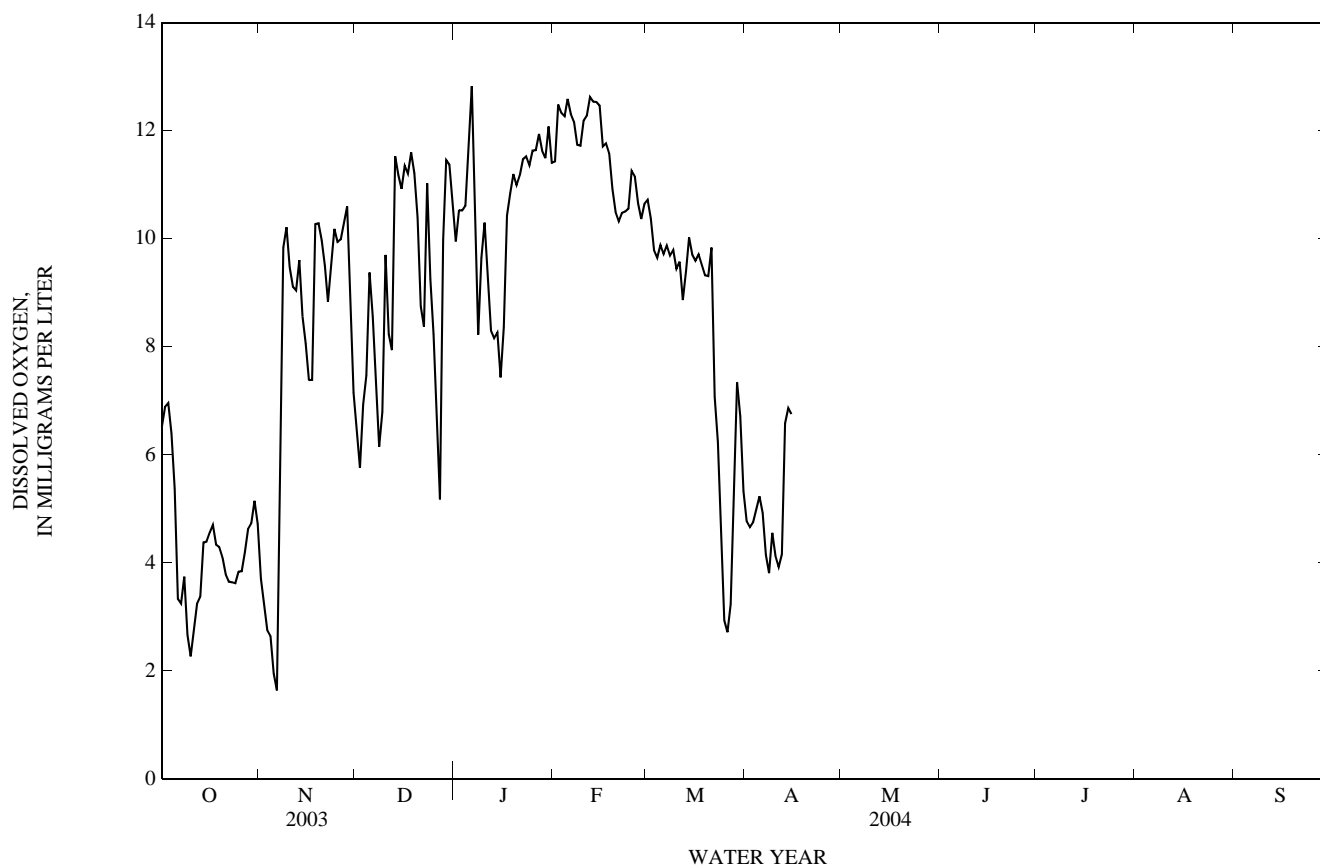
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	8.58	4.37	6.52	4.75	2.55	3.71	7.32	5.20	6.44	10.77	9.46	9.95
2	9.11	5.00	6.89	4.27	2.19	3.21	6.60	4.30	5.76	11.66	9.88	10.53
3	8.38	5.59	6.96	3.71	1.91	2.75	9.51	4.27	6.93	11.36	9.88	10.52
4	7.87	4.39	6.40	3.54	1.66	2.64	8.37	6.70	7.47	11.27	9.88	10.62
5	6.87	4.49	5.38	2.45	1.58	1.95	10.90	6.80	9.37	12.74	11.00	11.82
6	4.49	2.49	3.34	2.23	1.10	1.64	9.75	7.89	8.56	13.87	11.65	12.83
7	5.19	1.22	3.25	9.70	1.50	4.38	8.08	6.47	7.25	12.70	9.05	11.20
8	5.28	2.25	3.74	10.25	9.56	9.84	6.84	5.27	6.15	9.75	7.14	8.23
9	3.83	1.77	2.66	10.56	9.88	10.22	9.49	4.92	6.80	12.16	6.79	9.65
10	3.84	0.98	2.27	9.89	9.18	9.47	10.28	9.13	9.70	11.18	9.55	10.30
11	4.33	1.17	2.79	9.58	8.75	9.11	9.46	7.41	8.24	10.17	8.43	9.26
12	5.25	1.89	3.24	9.70	8.53	9.05	11.40	5.22	7.94	9.22	7.53	8.30
13	5.27	1.62	3.38	10.36	8.83	9.61	11.85	11.32	11.53	9.07	6.61	8.16
14	6.44	2.88	4.38	9.05	8.05	8.56	11.33	10.84	11.18	9.73	6.87	8.26
15	6.15	2.91	4.39	8.73	7.10	8.06	11.31	10.71	10.93	9.06	5.98	7.44
16	6.18	3.07	4.56	8.13	6.71	7.39	11.88	10.92	11.35	11.78	4.81	8.36
17	6.61	3.23	4.70	10.21	4.74	7.39	11.73	10.85	11.21	11.23	9.97	10.43
18	5.91	3.00	4.34	10.66	9.94	10.27	12.14	10.96	11.60	11.44	9.99	10.84
19	5.76	2.90	4.29	10.64	10.00	10.29	12.22	10.23	11.21	11.58	10.81	11.20
20	5.51	2.56	4.10	10.58	9.51	9.97	11.04	9.61	10.40	11.29	10.78	10.99
21	5.19	2.50	3.79	10.14	8.68	9.49	9.92	7.93	8.75	11.66	10.90	11.17
22	5.20	2.14	3.65	10.00	8.15	8.84	10.07	7.26	8.38	12.23	10.97	11.47
23	5.10	2.28	3.64	10.36	7.79	9.53	11.83	9.95	11.03	12.19	10.94	11.53
24	5.20	2.37	3.62	10.54	9.81	10.18	10.45	8.68	9.26	11.84	10.91	11.36
25	5.22	2.54	3.84	10.69	9.52	9.94	9.11	6.75	8.23	11.80	11.54	11.63
26	4.55	3.02	3.85	10.97	9.38	9.99	8.38	5.87	6.75	11.92	11.41	11.64
27	5.83	2.99	4.20	10.81	9.60	10.29	6.19	4.53	5.18	12.35	11.45	11.94
28	5.91	3.46	4.63	11.33	9.73	10.60	11.48	4.54	9.98	12.21	11.30	11.63
29	5.97	3.38	4.73	9.93	7.44	8.75	12.19	10.77	11.45	11.87	11.23	11.49
30	6.74	3.70	5.15	8.07	6.02	7.15	12.29	10.83	11.37	12.73	11.52	12.08
31	5.55	3.70	4.72	---	---	---	11.65	9.80	10.65	11.81	11.01	11.41
MONTH	9.11	0.98	4.30	11.33	1.10	7.81	12.29	4.27	9.07	13.87	4.81	10.52
FEBRUARY			MARCH			APRIL			MAY			
1	12.35	10.99	11.43	---	10.41	10.72	6.29	3.26	4.77	---	---	---
2	12.71	12.28	12.49	10.74	9.79	10.37	6.01	3.11	4.66	---	---	---
3	12.70	11.93	12.33	10.10	9.56	9.79	6.73	3.10	4.75	---	---	---
4	12.82	11.79	12.27	10.22	9.23	9.65	6.44	3.29	5.00	---	---	---
5	12.86	12.13	12.59	10.22	9.70	9.88	6.45	3.97	5.23	---	---	---
6	12.65	12.13	12.31	10.10	9.27	9.72	5.64	4.17	4.92	---	---	---
7	12.64	11.70	12.16	10.52	9.25	9.88	4.97	3.17	4.15	---	---	---
8	12.10	11.48	11.74	10.23	9.41	9.69	5.48	2.33	3.81	---	---	---
9	12.32	11.42	11.72	10.50	9.07	9.79	6.27	3.01	4.56	---	---	---
10	12.86	11.65	12.19	10.23	9.03	9.45	5.27	3.45	4.13	---	---	---
11	12.52	11.49	12.28	10.75	8.77	9.58	4.21	3.53	3.93	---	---	---
12	12.88	12.45	12.63	9.55	8.41	8.86	6.44	2.86	4.16	---	---	---
13	12.87	12.08	12.54	9.96	8.45	9.41	8.01	5.60	6.58	---	---	---
14	12.97	11.91	12.53	10.41	9.79	10.03	8.15	5.85	6.87	---	---	---
15	12.65	11.95	12.47	10.02	9.40	9.71	7.92	5.26	6.76	---	---	---
16	11.95	11.36	11.71	10.16	9.28	9.59	---	---	---	---	---	---
17	12.36	11.36	11.77	10.43	9.15	9.71	---	---	---	---	---	---
18	11.88	11.04	11.58	10.43	9.05	9.51	---	---	---	---	---	---
19	11.34	10.41	10.92	10.18	8.86	9.32	---	---	---	---	---	---
20	11.13	9.82	10.49	10.41	8.77	9.31	---	---	---	---	---	---
21	11.08	9.85	10.32	11.32	8.40	9.84	---	---	---	---	---	---
22	11.01	10.10	10.48	8.47	5.58	7.08	---	---	---	---	---	---
23	11.26	10.05	10.50	7.85	4.42	6.24	---	---	---	---	---	---
24	10.83	10.38	10.56	6.30	3.14	4.51	---	---	---	---	---	---
25	11.47	10.78	11.26	4.38	1.63	2.94	---	---	---	---	---	---
26	11.58	10.71	11.15	3.80	1.73	2.72	---	---	---	---	---	---
27	10.84	10.30	10.66	5.30	1.29	3.24	---	---	---	---	---	---
28	10.69	9.98	10.37	9.35	1.86	5.16	---	---	---	---	---	---
29	11.03	10.04	10.65	8.86	5.49	7.34	---	---	---	---	---	---
30	---	---	---	9.49	4.54	6.72	---	---	---	---	---	---
31	---	---	---	6.62	3.61	5.33	---	---	---	---	---	---
MONTH	12.97	9.82	11.59	---	1.29	8.23	---	---	---	---	---	---

08049566 Trigg Lake at DFW Airport near Ft Worth, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



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08049569 Big Bear Creek at State Highway 183 near Euless, TX

LOCATION.--Lat 32°50'08", long 97°02'09", Tarrant County, Hydrologic Unit 12030102, off service road from SH183 to County Line Road, near bridge at Diplomacy Road. Shelter is on downstream side of bridge near bridge apron.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 2002 to May 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 449.32 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

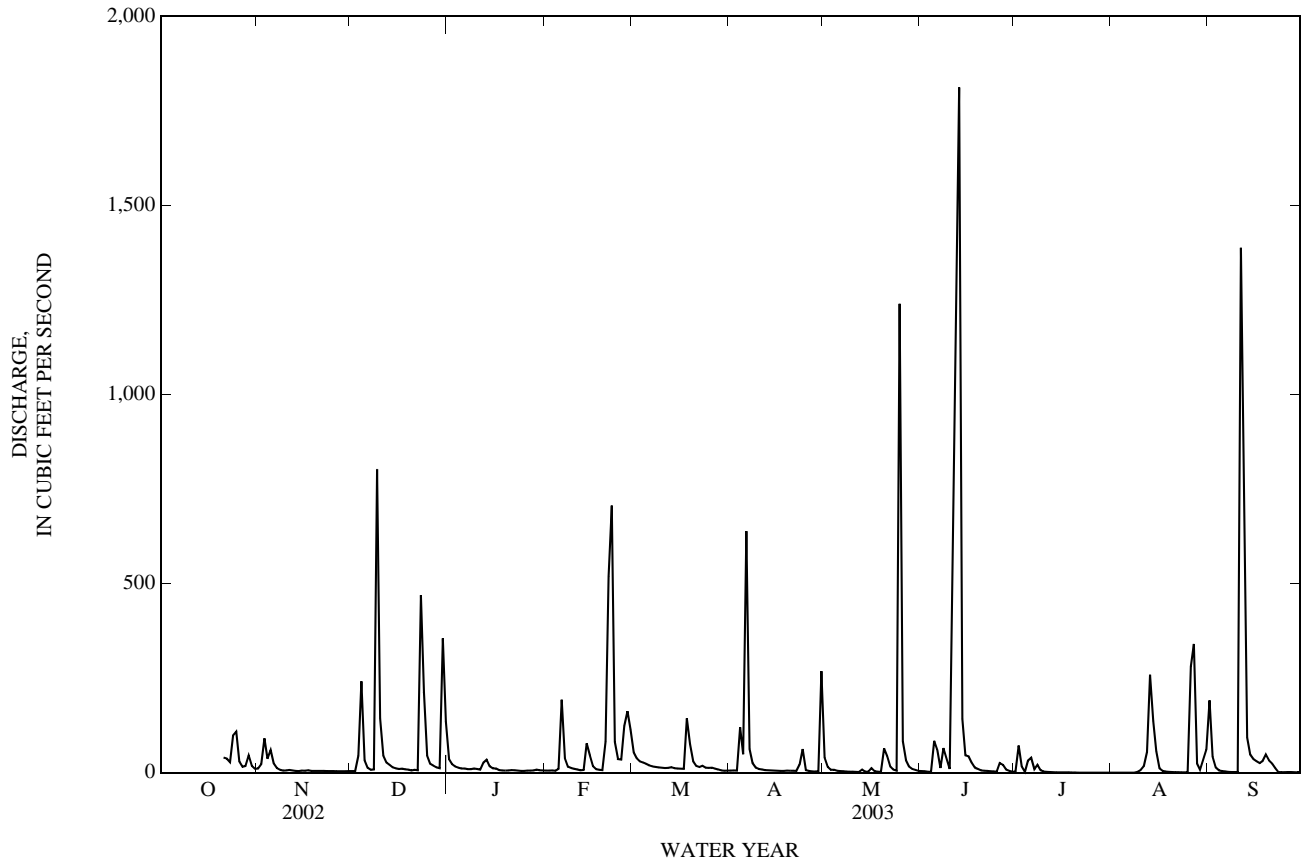
EXTREMES FOR CURRENT YEAR.--Maximum discharge (2003 WY), 4,220 cfs, June 13, gage height, 18.93 ft, maximum discharge (2004 WY), 3,250 cfs, Jan. 17, gage height, 17.92 ft; minimum discharge (2003 WY), 0.0 cfs, on many days, minimum discharge (2004 WY), 0.86 cfs, Oct. 26, Nov. 3, 4, gage height, 12.40 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11	4.3	35	5.5	54	5.6	40	4.2	2.6	0.00	191
2	---	22	4.1	22	5.4	38	5.9	15	3.6	72	0.00	43
3	---	91	45	16	5.9	30	5.5	7.6	2.6	17	0.00	13
4	---	37	242	13	5.3	27	120	7.5	2.0	2.1	0.00	6.0
5	---	60	33	11	10	23	48	5.1	84	32	0.00	4.1
6	---	25	13	11	193	19	639	4.1	61	39	0.00	3.3
7	---	12	7.6	9.2	38	16	62	3.8	12	9.4	0.00	2.0
8	---	7.5	8.4	9.3	16	15	25	3.1	65	21	0.00	1.8
9	---	5.5	802	11	12	14	13	2.7	36	6.5	2.1	1.9
10	---	5.7	144	9.6	10	13	9.5	2.4	9.7	2.8	7.0	1.8
11	---	7.2	45	7.8	8.3	12	8.3	2.1	238	2.0	17	1,390
12	---	6.0	27	27	6.2	13	6.6	1.7	603	1.6	55	953
13	---	4.5	21	34	7.3	14	6.3	8.2	1,810	1.3	259	93
14	---	4.2	14	17	77	12	5.7	2.6	142	1.0	136	48
15	---	5.3	11	12	46	11	5.6	2.6	46	0.98	57	36
16	---	4.9	9.9	11	17	10	5.2	12	43	0.93	11	31
17	---	6.3	10	6.8	9.4	10	4.8	3.7	27	0.78	4.6	25
18	---	4.6	9.0	5.7	7.6	143	4.8	2.4	14	0.63	2.9	31
19	---	e4.6	8.1	5.4	6.7	75	5.6	2.1	9.5	0.52	1.9	48
20	---	e4.6	6.0	5.8	82	30	5.1	64	6.0	0.27	1.5	32
21	40	e4.6	7.7	6.8	519	18	4.9	45	5.1	0.04	1.3	24
22	37	e4.7	6.2	6.5	706	15	4.8	16	4.8	0.00	1.4	12
23	28	4.1	469	5.4	81	18	21	8.2	4.0	0.00	0.87	1.7
24	98	4.2	213	4.7	36	13	62	4.9	3.2	0.00	0.70	1.5
25	108	4.1	45	4.7	35	13	6.8	1,240	2.6	0.00	0.97	1.3
26	30	3.7	24	5.3	123	13	4.5	83	25	0.00	280	1.5
27	16	3.8	19	5.6	162	10	3.6	32	21	0.00	340	1.8
28	18	3.7	14	5.9	114	8.4	3.2	16	8.2	0.00	24	1.3
29	46	3.9	12	8.2	---	6.1	3.8	9.5	4.5	0.11	7.6	1.0
30	18	4.4	355	6.3	---	5.2	268	7.0	2.7	0.11	35	0.96
31	10	---	135	6.1	---	5.4	---	4.8	---	0.04	61	---
TOTAL	---	370.1	2,764.3	345.1	2,344.6	704.1	1,374.1	1,659.1	3,299.7	214.71	1,307.84	3,001.96
MEAN	---	12.3	89.2	11.1	83.7	22.7	45.8	53.5	110	6.93	42.2	100
MAX	91	802	35	706	143	639	1,240	1,810	72	340	1,390	
MIN	3.7	4.1	4.7	5.3	5.2	3.2	1.7	2.0	0.00	0.00	0.96	
AC-FT	---	734	5,480	685	4,650	1,400	2,730	3,290	6,540	426	2,590	5,950

e Estimated

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued



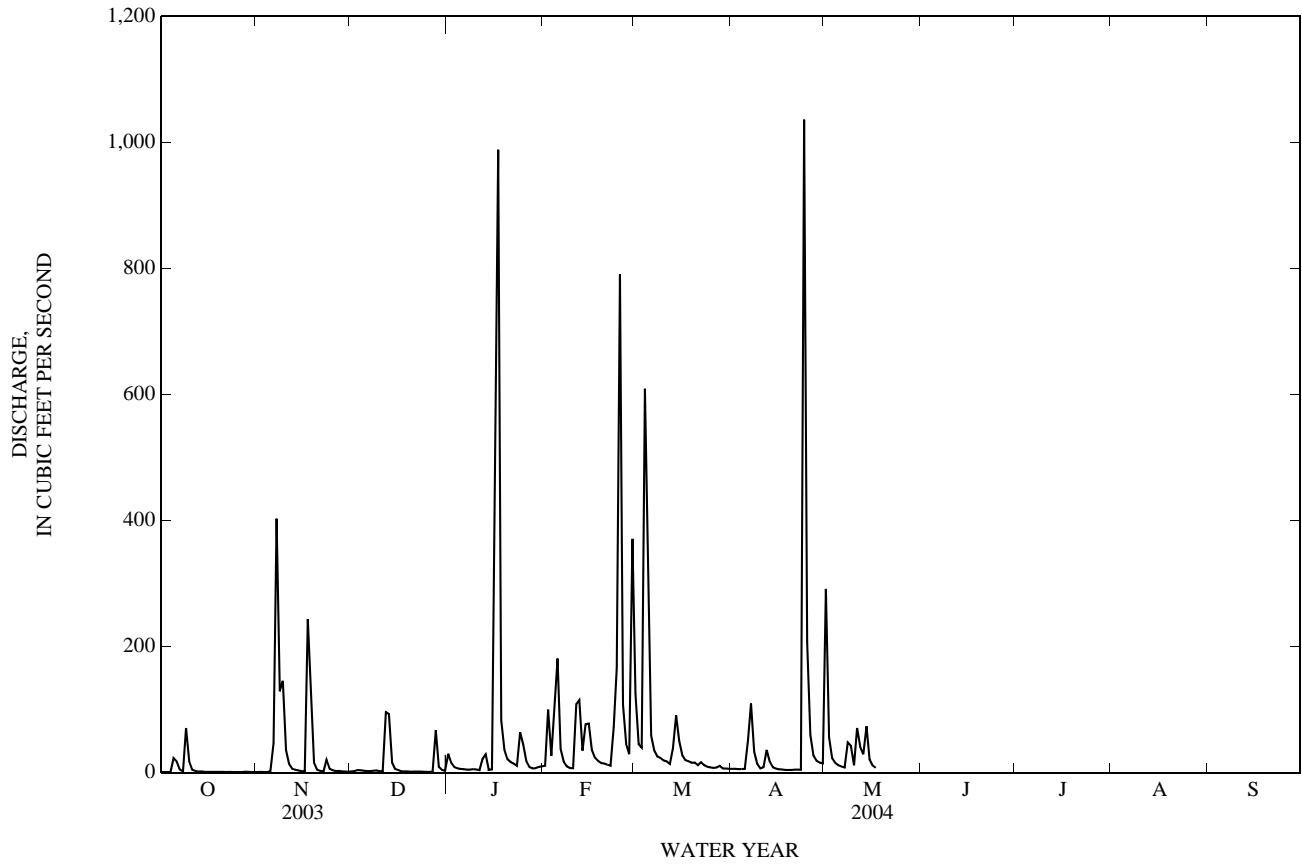
08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	2.0	30	e11	125	6.0	291	---	---	---	---
2	1.1	1.2	2.6	16	e100	45	6.0	56	---	---	---	---
3	1.1	0.97	4.1	8.6	27	40	5.6	23	---	---	---	---
4	1.1	1.0	3.8	6.8	109	609	5.7	15	---	---	---	---
5	23	2.0	2.9	5.8	181	267	5.8	12	---	---	---	---
6	18	47	2.6	5.6	38	59	51	9.7	---	---	---	---
7	5.1	403	2.6	4.7	17	36	110	8.1	---	---	---	---
8	2.0	129	3.1	4.8	9.9	26	33	48	---	---	---	---
9	71	146	3.7	5.6	7.5	23	14	43	---	---	---	---
10	18	35	2.3	5.0	7.1	19	6.7	12	---	---	---	---
11	4.7	14	2.3	4.2	108	18	8.3	71	---	---	---	---
12	2.6	6.1	96	22	115	14	36	41	---	---	---	---
13	1.8	4.7	93	29	35	38	17	29	---	---	---	---
14	1.9	3.5	16	4.7	77	91	8.4	74	---	---	---	---
15	1.3	2.2	5.8	5.1	78	51	6.2	21	---	---	---	---
16	1.2	2.1	4.1	600	37	27	5.3	11	---	---	---	---
17	1.1	243	2.1	988	24	20	5.0	7.5	---	---	---	---
18	1.2	107	2.0	83	19	18	4.3	---	---	---	---	---
19	1.2	16	2.1	36	15	16	4.3	---	---	---	---	---
20	1.1	4.6	1.6	21	14	16	4.4	---	---	---	---	---
21	1.2	2.8	1.7	17	12	12	4.9	---	---	---	---	---
22	1.1	1.8	1.7	14	11	17	4.9	---	---	---	---	---
23	1.3	21	1.8	11	72	12	4.5	---	---	---	---	---
24	1.1	6.1	1.5	64	166	9.3	1,040	---	---	---	---	---
25	1.1	3.8	1.3	45	791	8.3	206	---	---	---	---	---
26	1.0	2.6	1.3	18	108	7.6	60	---	---	---	---	---
27	1.0	2.7	1.6	8.9	45	8.1	27	---	---	---	---	---
28	1.4	2.0	67	6.6	29	11	19	---	---	---	---	---
29	1.4	1.8	9.5	7.2	371	6.6	16	---	---	---	---	---
30	1.1	1.6	4.3	e9.2	---	6.7	15	---	---	---	---	---
31	1.1	---	2.9	e10	---	6.0	---	---	---	---	---	---
TOTAL	172.4	1,215.67	349.3	2,096.8	2,634.5	1,662.6	1,740.3	---	---	---	---	---
MEAN	5.56	40.5	11.3	67.6	90.8	53.6	58.0	---	---	---	---	---
MAX	71	403	96	988	791	609	1,040	---	---	---	---	---
MIN	1.0	0.97	1.3	4.2	7.1	6.0	4.3	---	---	---	---	---
AC-FT	342	2,410	693	4,160	5,230	3,300	3,450	---	---	---	---	---

e Estimated

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued



08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical data: Nov. 2002 to Apr. 2004.

PERIOD OF DAILY RECORD.--Dissolved oxygen: Oct. 2002 to Apr. 2004 (discontinued). Water temperature: Oct. 2002 to Apr. 2004 (discontinued).

INSTRUMENTATION.--Water quality monitor since Oct. 2002.

REMARKS.--Record fair. Interruption in the record was caused by malfunctions of the instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum (2003 WY), 32.89 °C, July 22, maximum (2004 WY), 23.60 °C, Oct. 13; minimum (2003 WY), 3.41 °C, Feb. 25, minimum (2004 WY), 5.07 °C, Feb. 14.

DISSOLVED OXYGEN: Maximum (2003 WY), 15.42 mg/L, Feb. 26, maximum (2004 WY), 15.56 mg/L, Feb. 16; minimum (2003 WY), 0.33 mg/L, June 8, minimum (2004 WY), 4.11 mg/L, Oct. 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
NOV 25-					
DEC 02	1202	--	S20	--	--
DEC 02-05	1706	--	32	--	--
DEC 05-11	1719	--	36	--	--
DEC 11-24	1457	--	33	--	--
DEC 24-31	1320	--	43	--	--
30...	1435	--	<9	<18.0	<18.0
30...	1509	6.8	68	<18.0	<18.0
30...	1611	--	68	--	--
30...	1704	5.7	70	<18.0	<18.0
30...	1800	--	72	--	--
30...	1904	--	48	<18.0	<18.0
30...	2027	--	47	--	--
30...	2244	--	45	<18.0	<18.0
31...	0300	--	31	--	--
31...	0629	--	30	--	--
DEC 31					
2002-					
JAN 13					
2003	1249	--	29	--	--
12...	1357	--	S10	<18.0	<18.0
12...	1531	--	<9	--	--
12...	1621	--	S16	--	--
12...	1705	<2.0	<9	<18.0	<18.0
12...	1949	--	<9	--	--
12...	2216	--	S16	<18.0	<18.0
13...	0210	--	S17	--	--
13...	0426	--	50	<18.0	<18.0
13...	0621	--	180	--	--
13...	0825	>100	320	<18.0	230
JAN 13-22	1138	--	130	--	--
JAN 22-28	0742	--	32	--	--
JAN 28-					
FEB 04	1213	--	S11	--	--
FEB 04-11	1227	--	28	--	--
FEB 11-20	1322	--	S22	--	--
FEB 20-24	0846	--	40	--	--
FEB 26-					
MAR 05	1459	--	92	--	--

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
FEB					
26...	1615	--	120	<18.0	S57.0
26...	2334	26.0	56	<18.0	S25.0
27...	1210	14.0	40	S22.0	S29.0
27...	1700	--	41	--	--
27...	2246	17.0	42	S21.0	S34.0
28...	0142	--	33	--	--
28...	0814	6.4	33	<18.0	<18.0
28...	1223	--	33	--	--
28...	2116	--	42	--	--
MAR					
01...	1219	--	S27	--	--
MAR					
05-11	0914	--	S22	--	--
MAR					
11-21	0840	--	34	--	--
MAR 21-					
APR 01	0854	--	28	--	--
APR					
01-08	1045	--	84	--	--
APR					
08-17	1027	--	29	--	--
APR					
17-25	0938	--	42	--	--
AUG					
26...	1749	4.8	S26	<18.0	<18.0
26...	1808	--	S21	<18.0	<18.0
26...	1821	--	84	<18.0	<18.0
26...	2259	>8.7	74	<18.0	<18.0
27...	1147	--	34	<18.0	<18.0

Remark codes used in this table:

< -- Less than

> -- Greater than

S -- Most probable value

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, low level, water, unfltrd mg/L (00335)	1,2- Propane -diol, water, unfltrd mg/L (91080)	1,2- Ethane- diol, water, unfltrd mg/L (91075)
OCT					
14-20	1244	--	S20	--	--
OCT					
20-27	1255	--	S20	--	--
OCT 27- NOV 03	1152	--	S19	--	--
NOV					
03-10	1357	--	40	--	--
NOV					
14-19	0824	--	37	--	--
NOV					
19-24	1108	--	S22	--	--
NOV 24- DEC 02	0924	--	S16	--	--
DEC					
02-08	0911	--	S24	--	--
DEC					
08-16	1116	--	29	--	--
DEC					
16-22	1055	--	<9	--	--
DEC					
22-30	1237	--	29	--	--
DEC 30 2003- JAN 05 2004	0932	--	S21	--	--
JAN					
05-12	0956	--	S20	--	--
JAN					
12-20	0918	--	49	--	--
JAN					
20-26	1241	--	S25	--	--
JAN 26- FEB 02	1010	--	S25	--	--
FEB					
02-09	0956	--	S26	--	--
FEB					
09-13	1139	--	35	--	--
FEB					
13-17	1147	--	150	--	--
14...	1017	--	S13	--	--
14...	1309	<2.0	31	<18.0	<18.0
14...	1624	--	30	--	--
14...	1648	--	S26	<18.0	<18.0
14...	2228	--	190	S34.0	83.0
15...	0459	--	38	--	--
15...	1132	--	30	--	--
15...	1818	8.8	30	<18.0	<18.0
15...	2307	--	S19	--	--
16...	0414	--	37	--	--
16...	1017	8.3	48	<18.0	<18.0
FEB					
17-23	1509	--	28	--	--

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Time	COD, low level, water, unfltrd mg/L (00335)
FEB 23-27	1023	43
FEB 27- MAR 05	1007	64
MAR 05-15	0947	S19
MAR 15-22	1416	S23
MAR 22-29	1125	S22
MAR 29- APR 05	1022	S14
APR 05-15	1149	35

Remark codes used in this table:

< -- Less than

S -- Most probable value

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	14.56	13.56	14.12	9.42	8.83	9.13	10.28	8.68	9.30
2	---	---	---	13.56	13.26	13.37	10.22	8.89	9.54	9.53	7.77	8.16
3	---	---	---	13.70	12.95	13.38	10.60	9.69	10.0	7.89	7.19	7.53
4	---	---	---	13.46	12.92	13.15	10.96	8.75	9.82	8.38	7.58	7.84
5	---	---	---	14.23	12.81	13.44	8.75	7.89	8.19	8.80	7.93	8.21
6	---	---	---	13.43	12.26	12.83	8.20	7.08	7.47	8.83	8.03	8.45
7	---	---	---	13.09	12.52	12.77	8.08	7.22	7.59	8.86	7.83	8.25
8	---	---	---	13.80	12.76	13.27	8.95	7.63	8.26	9.07	7.57	8.26
9	---	---	---	15.82	13.50	14.73	10.65	8.95	9.99	10.43	8.55	9.59
10	---	---	---	16.91	15.40	16.12	9.88	9.64	9.77	10.30	9.47	9.99
11	---	---	---	16.68	15.54	15.90	9.75	9.11	9.41	9.47	8.35	8.78
12	---	---	---	15.74	15.16	15.44	9.81	9.37	9.54	8.35	6.19	7.36
13	---	---	---	15.16	14.34	14.69	9.76	9.06	9.30	7.13	6.13	6.47
14	---	---	---	14.67	13.83	14.25	9.20	8.60	8.90	7.75	6.80	7.25
15	---	---	---	14.22	13.50	13.87	9.99	8.90	9.49	7.96	7.39	7.78
16	---	---	---	13.74	12.95	13.36	11.53	9.99	10.91	7.55	6.95	7.34
17	---	---	---	13.28	12.47	12.89	12.53	11.25	11.88	6.95	5.89	6.39
18	---	---	---	12.93	12.16	12.54	14.16	12.53	13.70	6.09	5.04	5.68
19	---	---	---	12.71	12.05	12.39	13.90	13.07	13.66	6.41	5.43	5.96
20	---	---	---	---	11.72	---	13.07	11.70	12.33	8.62	6.41	7.36
21	---	---	---	13.09	11.61	12.13	11.70	10.53	11.02	10.39	8.62	9.74
22	18.78	18.11	18.41	12.75	11.82	12.19	10.57	9.75	10.17	10.10	8.79	9.57
23	19.06	18.39	18.63	12.45	11.56	12.02	10.01	8.56	9.43	8.79	6.75	7.62
24	19.06	17.97	18.66	13.14	11.85	12.42	8.56	6.77	7.63	6.75	5.36	5.96
25	17.97	16.46	17.05	12.90	11.96	12.38	6.77	5.63	6.20	5.40	4.86	5.12
26	16.46	15.62	15.99	12.00	11.17	11.71	6.30	5.47	5.67	5.21	4.86	5.04
27	16.65	16.27	16.47	11.17	10.29	10.78	6.09	5.23	5.67	5.77	4.78	5.21
28	17.37	16.65	16.89	10.72	9.46	9.91	6.77	6.07	6.32	8.24	5.77	6.69
29	17.80	16.78	17.28	9.53	8.87	9.25	8.41	6.77	7.51	9.61	8.24	9.11
30	17.70	15.92	16.65	9.62	8.76	9.21	14.10	8.41	11.07	9.42	9.00	9.21
31	15.92	14.56	15.31	---	---	---	12.96	10.28	11.50	10.25	8.98	9.60
MONTH	---	---	---	---	8.76	---	14.16	5.23	9.39	10.43	4.78	7.70

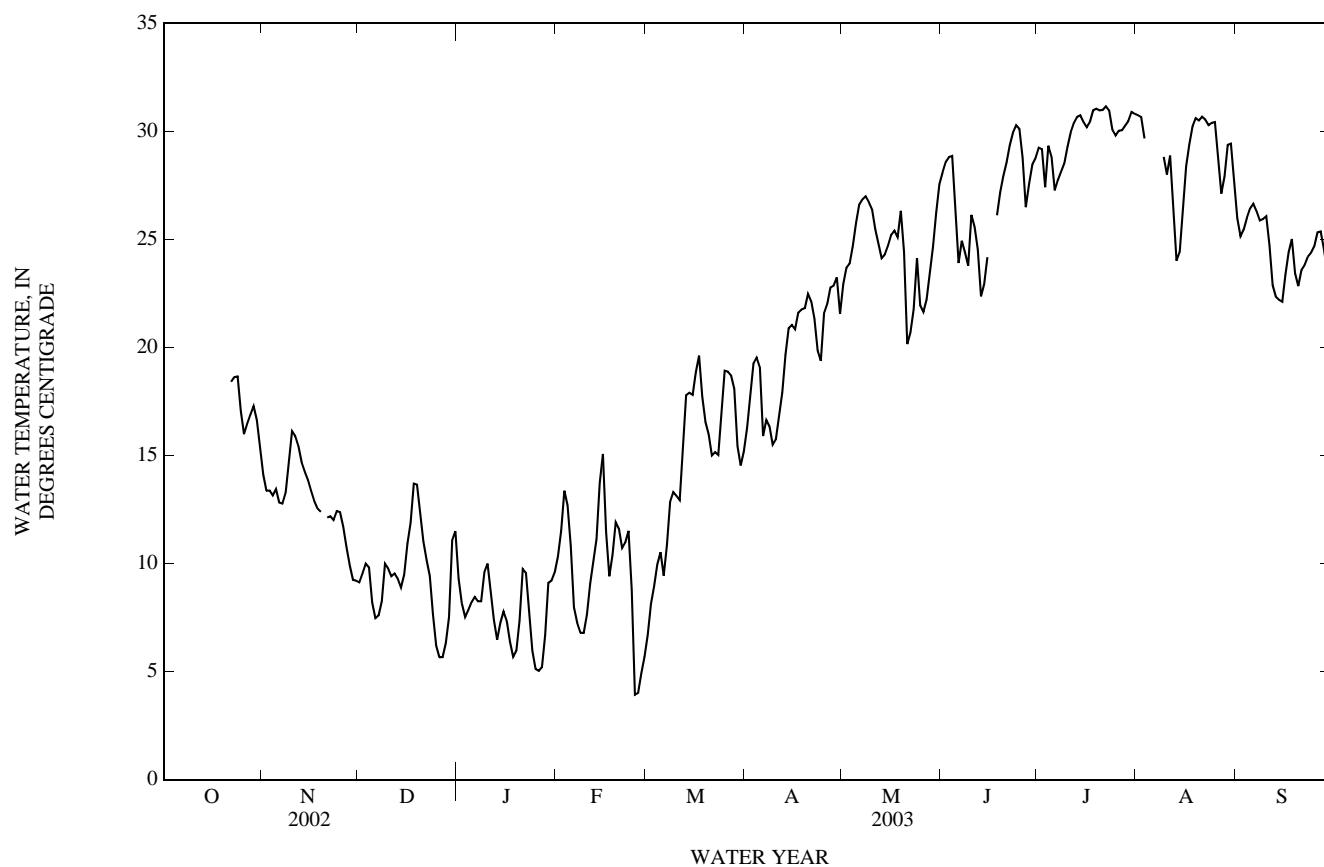
TRINITY RIVER BASIN

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	11.06	9.53	10.34	7.54	6.09	6.69	17.31	15.21	16.27	24.91	21.66	22.93
2	12.73	10.64	11.51	9.27	7.49	8.12	18.84	16.65	17.78	24.65	23.20	23.69
3	13.92	12.73	13.37	9.51	8.62	8.95	19.86	18.71	19.27	24.43	23.38	23.88
4	13.37	11.88	12.70	11.72	9.18	9.97	20.29	18.53	19.53	24.97	24.41	24.70
5	11.88	9.14	10.82	11.80	9.64	10.52	20.08	18.45	19.08	26.79	24.97	25.76
6	9.14	7.75	7.97	10.15	8.85	9.44	19.53	14.75	15.91	27.15	26.27	26.62
7	7.75	6.83	7.24	12.63	10.05	10.85	18.35	15.47	16.65	27.85	25.99	26.85
8	7.49	6.45	6.80	13.12	12.51	12.85	18.07	15.77	16.36	27.28	26.70	26.99
9	7.06	6.60	6.79	13.59	12.99	13.30	16.17	14.81	15.50	27.15	26.36	26.73
10	8.36	6.97	7.63	13.61	12.44	13.13	16.81	15.10	15.76	26.72	26.16	26.40
11	10.04	8.01	9.05	13.99	12.32	12.94	17.64	16.19	16.82	26.46	24.86	25.48
12	10.67	9.40	10.10	16.92	13.99	15.61	19.13	17.38	17.91	25.45	24.19	24.78
13	11.74	10.30	11.13	18.14	16.92	17.79	20.35	19.13	19.66	24.70	23.76	24.13
14	15.69	11.74	13.73	18.62	17.45	17.90	21.55	20.35	20.89	25.40	23.53	24.30
15	15.66	13.64	15.08	18.28	17.31	17.81	21.34	20.49	21.04	25.01	24.43	24.71
16	13.64	9.90	11.45	19.36	18.28	18.87	21.83	19.94	20.85	26.18	24.45	25.20
17	10.03	8.89	9.41	20.23	19.07	19.62	22.63	20.67	21.61	25.88	25.00	25.40
18	11.17	9.41	10.40	19.94	16.05	17.72	22.05	21.52	21.75	26.19	24.18	25.11
19	12.31	11.17	11.91	17.95	15.30	16.55	22.63	21.14	21.82	27.66	25.15	26.32
20	12.19	11.04	11.61	17.35	15.16	15.98	23.06	21.86	22.48	27.46	20.52	24.42
21	11.04	10.19	10.72	15.61	14.34	15.00	22.90	21.26	22.14	20.52	19.90	20.15
22	11.68	10.32	10.98	15.70	14.46	15.16	22.20	20.73	21.33	21.30	20.28	20.69
23	12.84	10.54	11.51	16.78	14.06	15.03	20.73	18.07	19.87	23.30	20.92	21.75
24	11.19	6.13	8.80	18.09	16.40	17.11	21.82	17.79	19.38	25.32	23.30	24.14
25	6.13	3.41	3.93	19.93	18.09	18.92	22.52	20.84	21.58	25.15	20.61	21.96
26	4.63	3.72	4.02	19.23	18.35	18.88	23.35	21.05	22.01	22.39	20.90	21.65
27	5.58	4.28	4.92	19.10	18.21	18.71	23.81	21.88	22.78	24.12	20.99	22.22
28	6.35	5.16	5.69	18.78	16.82	18.09	23.48	22.44	22.86	24.47	22.20	23.41
29	---	---	---	16.82	14.78	15.44	24.32	22.37	23.24	26.18	23.54	24.65
30	---	---	---	15.60	13.65	14.53	23.76	19.92	21.55	27.47	25.19	26.24
31	---	---	---	16.55	13.96	15.20	---	---	---	28.70	26.81	27.56
MONTH	15.69	3.41	9.63	20.23	6.09	14.73	24.32	14.75	19.79	28.70	19.90	24.48
JUNE			JULY			AUGUST			SEPTEMBER			
1	28.85	27.38	28.10	30.62	28.30	29.24	31.86	29.70	30.75	27.56	25.18	25.97
2	29.97	27.85	28.59	30.87	26.80	29.18	31.74	29.42	30.67	25.73	24.71	25.15
3	30.17	27.77	28.81	29.39	26.54	27.42	30.70	28.69	29.67	25.89	24.94	25.45
4	30.08	28.00	28.86	30.35	28.61	29.33	---	---	---	26.48	25.59	26.00
5	28.55	23.66	26.26	29.76	27.66	28.82	---	---	---	27.84	25.72	26.43
6	25.09	23.23	23.91	28.03	26.74	27.27	---	---	---	28.12	25.86	26.66
7	26.19	24.04	24.94	28.47	27.14	27.75	---	---	---	27.47	25.54	26.30
8	26.06	22.75	24.40	28.77	27.28	28.14	---	---	---	26.75	25.07	25.88
9	26.11	22.45	23.79	28.99	28.04	28.52	29.92	28.00	28.82	26.73	25.20	25.94
10	26.57	25.68	26.14	30.73	28.20	29.30	28.59	27.44	28.00	26.80	25.52	26.07
11	26.53	24.27	25.58	31.09	28.98	29.96	30.18	28.08	28.88	26.10	22.74	24.73
12	25.82	23.28	24.53	31.42	29.40	30.40	28.08	25.00	26.38	23.11	22.31	22.87
13	24.08	21.41	22.37	32.02	29.67	30.67	27.39	22.18	24.02	23.61	21.42	22.34
14	24.58	21.66	22.94	31.94	29.75	30.74	26.12	23.26	24.42	23.31	21.74	22.20
15	26.12	22.84	24.17	31.29	29.60	30.43	28.41	25.20	26.46	23.52	21.17	22.12
16	---	---	---	31.10	29.47	30.19	29.46	27.52	28.37	24.21	22.68	23.38
17	26.37	---	---	31.72	29.35	30.44	30.65	28.65	29.40	24.92	24.03	24.42
18	27.05	25.29	26.11	32.13	29.93	30.97	31.35	29.31	30.22	25.32	24.55	25.02
19	28.11	26.48	27.18	32.06	30.17	31.05	31.65	29.71	30.61	24.58	22.88	23.43
20	28.42	27.55	27.95	32.19	29.91	30.98	31.31	29.66	30.51	23.55	22.10	22.84
21	29.24	28.06	28.56	32.27	29.79	31.00	31.98	29.66	30.68	23.79	23.46	23.59
22	29.91	28.89	29.36	32.89	29.68	31.16	31.74	29.79	30.54	24.44	23.20	23.82
23	30.83	29.20	29.94	32.60	29.81	30.96	31.53	29.36	30.29	24.78	23.80	24.20
24	31.00	29.63	30.29	31.28	28.90	30.08	31.41	29.44	30.40	25.06	23.81	24.39
25	30.76	29.43	30.12	31.02	28.55	29.81	31.54	29.59	30.43	25.27	24.07	24.68
26	30.42	27.34	28.79	30.90	28.97	30.03	30.53	25.14	28.86	26.08	24.77	25.33
27	27.34	25.64	26.49	31.33	28.89	30.06	28.29	26.19	27.12	25.89	24.98	25.37
28	28.60	26.85	27.59	31.70	28.86	30.27	29.40	26.92	27.91	25.20	23.90	24.56
29	28.91	28.02	28.46	31.75	29.29	30.47	29.96	28.67	29.37	23.91	23.11	23.55
30	29.67	27.94	28.76	32.71	29.59	30.90	30.01	28.11	29.44	23.11	22.21	22.69
31	---	---	---	32.43	29.72	30.81	28.20	27.56	27.72	---	---	---
MONTH	---	---	---	32.89	26.54	29.88	---	---	---	28.12	21.17	24.51

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued



GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	12.51	12.49	12.50	12.78	12.65	12.70
2	---	---	---	12.70	12.57	12.63	12.51	12.49	12.50	12.66	12.59	12.63
3	---	---	---	13.12	12.70	12.95	13.80	12.50	12.70	12.60	12.58	12.59
4	---	---	---	12.82	12.65	12.71	14.04	12.82	13.39	12.58	12.56	12.57
5	---	---	---	12.91	12.54	12.82	12.82	12.60	12.69	12.56	12.56	12.56
6	---	---	---	12.71	12.59	12.64	12.60	12.55	12.57	12.56	12.55	12.56
7	---	---	---	12.59	12.55	12.57	12.55	12.52	12.53	12.55	12.54	12.55
8	---	---	---	12.55	12.52	12.53	12.96	12.51	12.54	12.55	12.54	12.55
9	---	---	---	12.52	12.51	12.52	15.80	12.96	14.57	12.58	12.55	12.56
10	---	---	---	12.53	12.51	12.52	13.62	12.86	13.13	12.56	12.54	12.55
11	---	---	---	12.54	12.52	12.53	12.86	12.68	12.76	12.54	12.53	12.54
12	---	---	---	12.54	12.51	12.52	12.68	12.63	12.65	12.85	12.54	12.64
13	---	---	---	12.51	12.50	12.50	12.63	12.59	12.62	12.81	12.63	12.70
14	---	---	---	---	---	---	12.59	12.56	12.58	12.63	12.57	12.59
15	---	---	---	12.53	12.50	12.51	12.57	12.55	12.56	12.57	12.55	12.56
16	---	---	---	12.52	12.50	12.51	12.57	12.55	12.55	12.57	12.54	12.56
17	---	---	---	12.55	12.50	12.52	12.57	12.54	12.56	12.54	12.52	12.53
18	---	---	---	---	---	---	12.56	12.54	12.54	12.53	12.51	12.52
19	---	---	---	---	---	---	12.55	12.53	12.54	12.52	12.51	12.52
20	---	---	---	---	---	---	12.53	12.52	12.52	12.53	12.51	12.52
21	12.79	12.67	12.73	---	---	---	12.55	12.52	12.54	12.54	12.53	12.53
22	12.82	12.66	12.71	---	---	---	12.54	12.51	12.52	12.53	12.52	12.53
23	12.72	12.62	12.66	12.51	12.49	12.50	14.84	12.51	13.83	12.53	12.51	12.51
24	13.47	12.59	12.91	12.50	12.49	12.50	14.36	12.88	13.32	12.51	12.50	12.50
25	13.34	12.76	13.01	12.51	12.48	12.50	12.88	12.67	12.75	12.51	12.50	12.50
26	12.76	12.61	12.67	12.49	12.48	12.49	12.67	12.61	12.63	12.52	12.51	12.51
27	12.61	12.57	12.59	12.49	12.48	12.49	12.62	12.59	12.60	12.52	12.51	12.52
28	12.92	12.56	12.60	12.49	12.48	12.49	12.59	12.57	12.58	12.53	12.52	12.52
29	12.93	12.64	12.75	12.50	12.49	12.49	12.57	12.56	12.57	12.56	12.53	12.54
30	12.64	12.57	12.60	12.51	12.49	12.50	15.97	12.56	13.44	12.54	12.52	12.53
31	12.57	12.54	12.55	---	---	---	13.75	12.78	13.09	12.53	12.52	12.52
MONTH	---	---	---	---	---	---	15.97	12.49	12.80	12.85	12.50	12.56

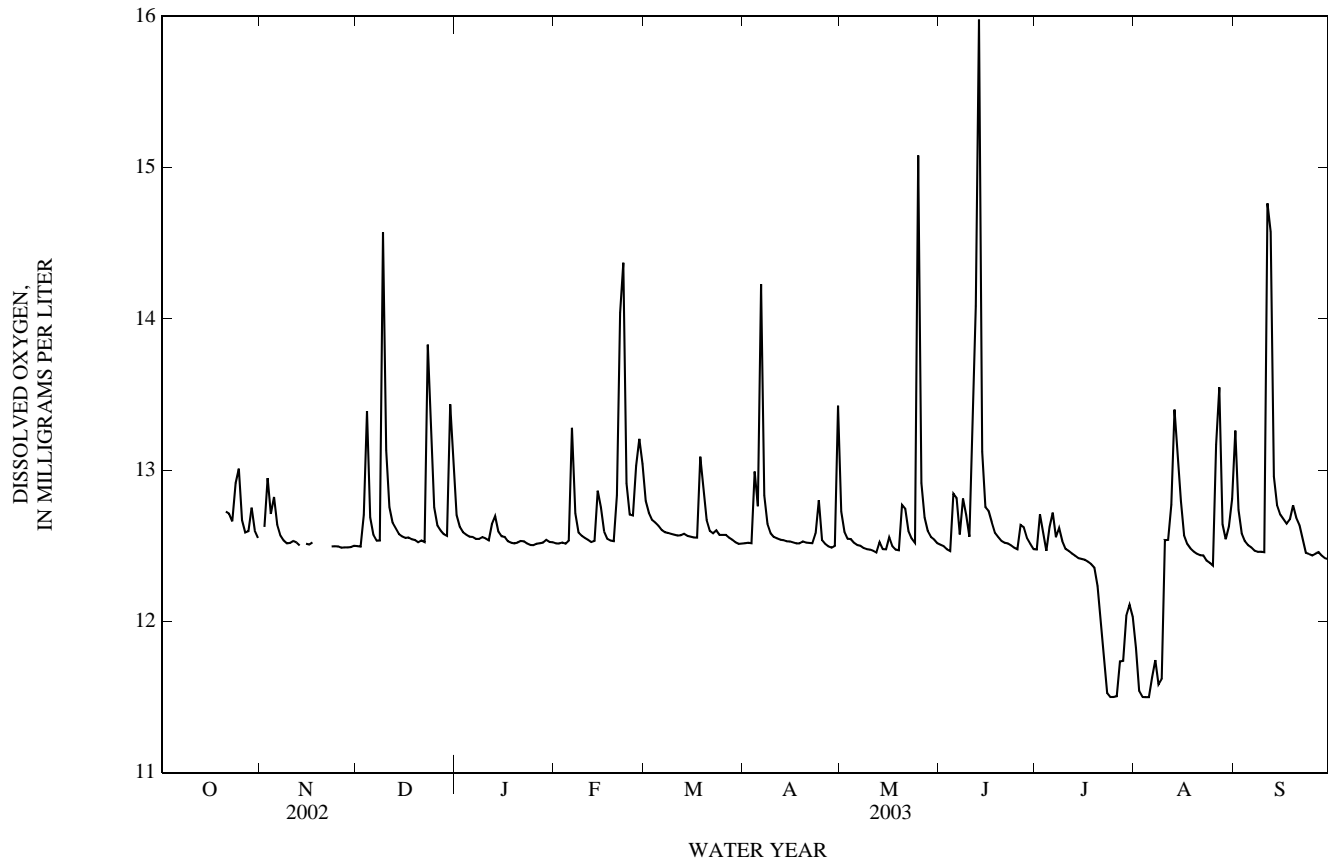
TRINITY RIVER BASIN

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

GAGE HEIGHT, FEET—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.53	12.51	12.52	12.87	12.75	12.80	12.53	12.50	12.52	12.87	12.64	12.73
2	12.52	12.51	12.52	12.75	12.69	12.72	12.54	12.51	12.52	12.64	12.56	12.59
3	12.54	12.51	12.52	12.69	12.66	12.67	12.52	12.51	12.52	12.56	12.53	12.55
4	12.52	12.51	12.51	12.68	12.64	12.65	13.67	12.51	12.99	12.56	12.53	12.54
5	13.03	12.50	12.53	12.65	12.62	12.63	13.68	12.64	12.76	12.53	12.51	12.52
6	13.79	12.87	13.28	12.62	12.60	12.60	15.50	13.07	14.23	12.51	12.50	12.51
7	12.87	12.62	12.72	12.60	12.59	12.59	13.07	12.71	12.83	12.51	12.49	12.50
8	12.62	12.56	12.59	12.60	12.58	12.58	12.71	12.60	12.64	12.50	12.48	12.49
9	12.58	12.56	12.57	12.58	12.57	12.58	12.60	12.57	12.58	12.49	12.47	12.48
10	12.57	12.54	12.55	12.60	12.57	12.57	12.57	12.55	12.56	12.48	12.47	12.47
11	12.55	12.53	12.54	12.57	12.56	12.57	12.55	12.54	12.55	12.48	12.46	12.47
12	12.54	12.52	12.52	12.58	12.57	12.57	12.54	12.54	12.54	12.46	12.45	12.46
13	12.57	12.52	12.53	12.60	12.57	12.58	12.54	12.53	12.54	12.75	12.45	12.52
14	13.27	12.55	12.86	12.57	12.56	12.57	12.54	12.52	12.53	12.50	12.46	12.48
15	12.97	12.64	12.75	12.56	12.56	12.56	12.54	12.52	12.53	12.49	12.47	12.48
16	12.65	12.56	12.59	12.56	12.55	12.56	12.53	12.51	12.52	12.72	12.48	12.56
17	12.56	12.54	12.55	12.56	12.55	12.55	12.52	12.51	12.52	12.53	12.48	12.50
18	12.54	12.52	12.53	13.57	12.56	13.09	12.53	12.51	12.52	12.48	12.47	12.47
19	12.54	12.53	12.53	13.21	12.72	12.88	12.54	12.52	12.53	12.47	12.47	12.47
20	13.55	12.53	12.83	12.72	12.62	12.67	12.53	12.51	12.52	13.30	12.47	12.77
21	14.92	13.21	14.04	12.62	12.58	12.60	12.53	12.51	12.52	12.95	12.64	12.75
22	15.58	13.16	14.37	12.62	12.57	12.58	12.53	12.51	12.52	12.64	12.56	12.60
23	13.16	12.76	12.91	12.62	12.58	12.60	13.70	12.51	12.58	12.57	12.53	12.55
24	12.76	12.67	12.71	12.58	12.57	12.57	13.53	12.57	12.80	12.53	12.51	12.52
25	12.72	12.68	12.70	12.59	12.56	12.57	12.57	12.52	12.54	17.33	12.50	15.08
26	13.51	12.70	13.03	12.65	12.55	12.57	12.53	12.50	12.51	13.26	12.75	12.91
27	13.39	13.12	13.21	12.61	12.53	12.55	12.50	12.49	12.50	12.75	12.64	12.69
28	13.16	12.87	13.04	12.55	12.53	12.54	12.49	12.48	12.49	12.64	12.57	12.60
29	---	---	---	12.54	12.51	12.52	12.52	12.48	12.50	12.57	12.55	12.56
30	---	---	---	12.52	12.51	12.51	14.57	12.48	13.43	12.56	12.53	12.54
31	---	---	---	12.52	12.51	12.51	---	---	---	12.53	12.51	12.52
MONTH	15.58	12.50	12.81	13.57	12.51	12.62	15.50	12.48	12.66	17.33	12.45	12.64
JUNE			JULY			AUGUST			SEPTEMBER			
1	12.51	12.50	12.51	12.48	12.47	12.48	11.94	11.68	11.82	13.80	12.63	13.26
2	12.50	12.49	12.50	14.81	12.46	12.71	11.68	11.49	11.54	12.96	12.64	12.74
3	12.49	12.47	12.48	12.96	12.49	12.59	11.50	11.49	11.50	12.64	12.55	12.58
4	12.47	12.46	12.47	12.49	12.45	12.47	11.50	11.49	11.50	12.56	12.51	12.53
5	13.31	12.46	12.84	13.09	12.45	12.62	11.50	11.49	11.50	12.53	12.49	12.50
6	13.21	12.63	12.82	12.94	12.59	12.72	11.79	11.50	11.63	12.50	12.47	12.49
7	12.63	12.53	12.57	12.64	12.52	12.56	11.79	11.67	11.74	12.48	12.46	12.47
8	13.20	12.51	12.81	12.77	12.50	12.62	11.67	11.50	11.58	12.46	12.45	12.46
9	12.88	12.60	12.70	12.58	12.49	12.53	12.64	11.50	11.62	12.47	12.45	12.46
10	12.60	12.53	12.56	12.49	12.46	12.48	12.63	12.50	12.54	12.47	12.45	12.46
11	13.92	12.54	13.38	12.47	12.46	12.47	13.41	12.44	12.54	18.47	12.44	14.76
12	16.49	13.04	14.08	12.46	12.44	12.45	13.41	12.54	12.77	18.37	13.21	14.58
13	18.93	13.74	15.98	12.44	12.42	12.43	14.43	12.55	13.40	13.21	12.82	12.96
14	13.74	12.85	13.12	12.42	12.41	12.42	13.66	12.76	13.09	12.82	12.73	12.77
15	12.85	12.69	12.76	12.42	12.40	12.41	13.22	12.62	12.80	12.73	12.69	12.71
16	13.20	12.65	12.73	12.42	12.40	12.41	12.62	12.53	12.57	12.71	12.66	12.68
17	12.77	12.61	12.65	12.40	12.39	12.40	12.53	12.49	12.51	12.66	12.63	12.65
18	12.61	12.57	12.59	12.39	12.37	12.38	12.49	12.47	12.48	12.90	12.62	12.67
19	12.58	12.54	12.56	12.38	12.30	12.36	12.47	12.45	12.46	12.80	12.74	12.77
20	12.54	12.53	12.53	12.30	12.13	12.23	12.45	12.44	12.45	12.75	12.65	12.69
21	12.53	12.51	12.52	12.13	11.91	12.03	12.45	12.43	12.44	12.66	12.62	12.64
22	12.52	12.51	12.52	11.91	11.64	11.79	12.47	12.41	12.44	12.63	12.46	12.55
23	12.52	12.49	12.50	11.64	11.49	11.53	12.41	12.39	12.40	12.46	12.44	12.45
24	12.50	12.48	12.49	11.50	11.49	11.50	12.41	12.38	12.39	12.45	12.44	12.44
25	12.48	12.47	12.48	11.50	11.49	11.50	12.56	12.30	12.37	12.44	12.42	12.44
26	12.75	12.47	12.64	11.59	11.49	11.51	15.57	12.47	13.17	12.46	12.43	12.45
27	12.72	12.57	12.62	11.77	11.59	11.74	15.46	12.76	13.55	12.47	12.45	12.46
28	12.57	12.53	12.55	11.76	11.69	11.74	12.76	12.58	12.64	12.45	12.42	12.43
29	12.55	12.49	12.51	12.17	11.68	12.04	12.58	12.51	12.54	12.43	12.41	12.42
30	12.49	12.47	12.48	12.16	12.07	12.11	13.51	12.49	12.63	12.42	12.41	12.41
31	---	---	---	12.08	11.94	12.03	13.41	12.61	12.81	---	---	---
MONTH	18.93	12.46	12.80	14.81	11.49	12.23	15.57	11.49	12.37	18.47	12.41	12.73

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued


 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

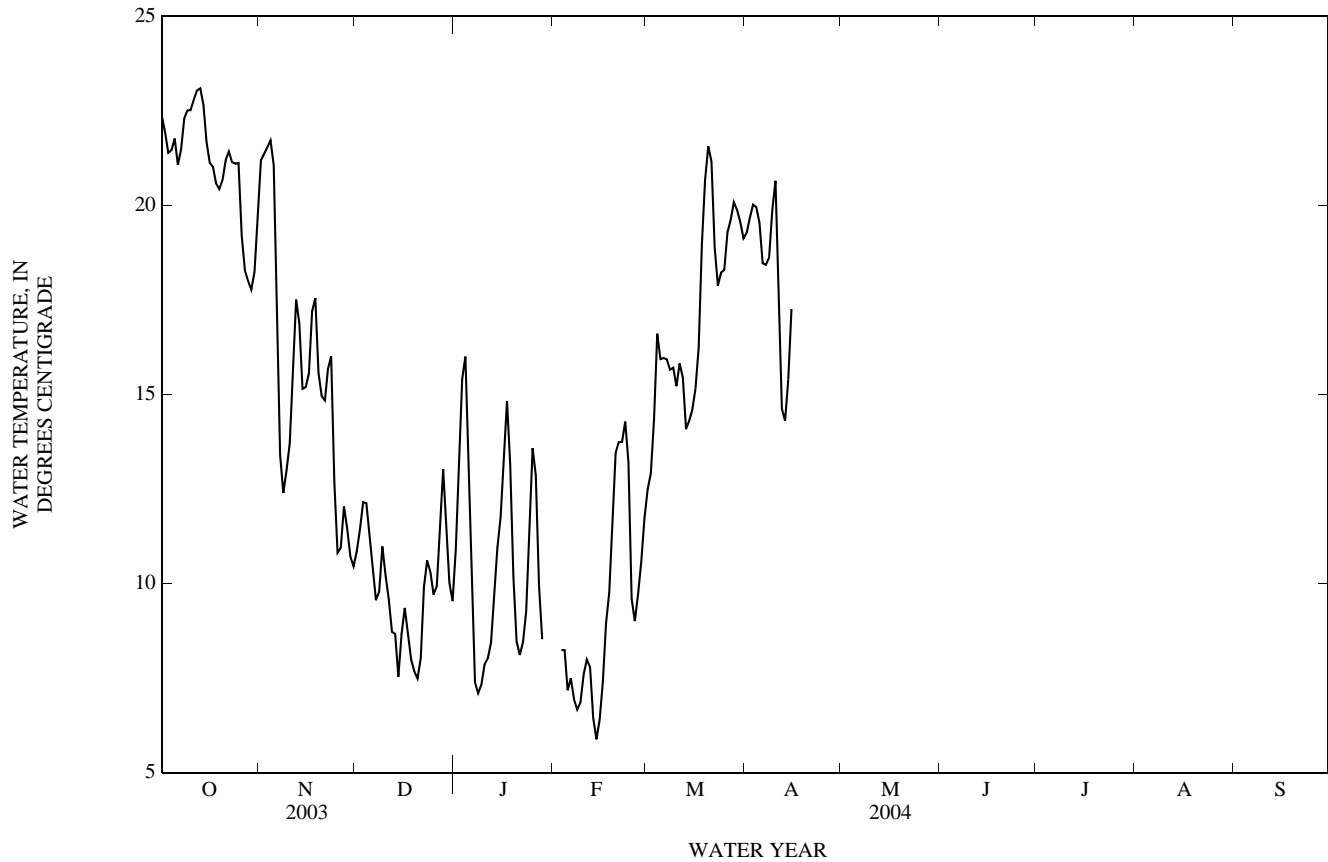
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.12	21.81	22.36	21.80	20.71	21.19	11.72	10.28	10.85	11.99	10.10	10.91
2	22.37	21.59	21.93	21.75	20.99	21.36	11.78	11.10	11.43	14.41	11.99	13.26
3	21.81	20.95	21.39	21.83	21.27	21.53	12.63	11.60	12.15	16.21	14.41	15.41
4	22.37	20.61	21.46	22.10	21.31	21.72	12.84	11.69	12.12	16.51	14.72	16.00
5	22.05	21.44	21.77	21.89	19.94	21.06	11.83	10.57	11.33	14.72	11.26	13.04
6	21.44	20.86	21.07	19.94	15.72	17.24	11.13	9.93	10.40	11.26	7.95	9.50
7	21.88	21.17	21.48	15.72	11.34	13.40	10.04	9.13	9.56	7.99	6.60	7.39
8	22.92	21.80	22.30	12.88	12.20	12.40	10.44	9.06	9.78	7.79	6.57	7.10
9	22.68	22.10	22.51	13.24	12.79	12.99	11.65	10.39	10.98	7.76	6.92	7.33
10	23.09	22.05	22.52	15.05	13.05	13.70	10.65	9.70	10.21	8.50	7.18	7.87
11	22.98	22.57	22.80	17.00	14.76	15.67	10.20	9.17	9.59	8.65	7.42	8.02
12	23.48	22.68	23.04	18.19	17.00	17.51	9.19	7.77	8.73	9.02	7.90	8.44
13	23.60	22.64	23.10	17.68	15.89	16.88	8.90	8.27	8.67	11.31	8.89	9.84
14	23.24	22.18	22.65	15.89	14.84	15.15	8.27	7.14	7.54	11.90	10.28	10.95
15	22.19	21.19	21.69	15.92	14.74	15.19	9.60	7.69	8.66	12.11	11.36	11.75
16	21.71	20.45	21.13	16.06	15.21	15.56	9.76	8.96	9.36	15.43	11.90	13.15
17	21.48	20.67	21.02	18.42	16.06	17.20	9.50	8.20	8.68	15.29	14.40	14.83
18	21.17	20.05	20.58	18.19	16.56	17.55	8.38	7.66	7.99	14.65	11.47	13.16
19	21.14	19.69	20.43	16.56	15.17	15.57	8.10	7.26	7.68	11.47	9.76	10.18
20	21.61	19.83	20.67	15.52	14.39	14.96	8.15	7.02	7.49	9.78	8.09	8.47
21	22.28	20.31	21.20	15.56	14.41	14.84	8.68	7.37	8.02	8.48	7.69	8.12
22	22.49	20.57	21.43	16.60	14.85	15.67	10.86	8.68	9.92	8.69	8.09	8.45
23	21.76	20.50	21.14	16.92	14.40	16.01	10.91	10.21	10.61	10.50	8.68	9.27
24	21.64	20.52	21.10	14.40	11.34	12.67	10.71	9.81	10.31	14.05	10.50	11.86
25	22.12	20.20	21.12	11.34	10.32	10.82	10.21	9.36	9.71	14.36	12.90	13.58
26	20.20	18.52	19.20	11.88	10.00	10.94	10.52	9.49	9.92	14.30	11.43	12.86
27	18.97	17.58	18.28	12.39	11.65	12.04	12.25	10.52	11.40	11.43	8.83	9.96
28	18.96	17.48	18.01	11.92	10.83	11.46	13.35	12.25	13.02	9.05	8.15	8.53
29	18.17	17.25	17.78	11.33	10.26	10.72	12.66	10.42	11.41	---	---	---
30	18.95	17.57	18.25	11.04	9.85	10.46	10.64	9.37	10.02	---	---	---
31	20.92	18.94	19.88	---	---	---	10.14	8.86	9.53	---	---	---
MONTH	23.60	17.25	21.07	22.10	9.85	15.45	13.35	7.02	9.91	---	---	---

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.83	11.34	12.49	20.05	18.49	19.27	---	---	---
2	---	---	---	13.87	12.03	12.91	20.47	19.18	19.68	---	---	---
3	9.13	7.77	8.24	15.81	13.59	14.34	20.86	19.38	20.02	---	---	---
4	8.70	7.11	8.24	17.67	15.81	16.60	20.69	19.34	19.96	---	---	---
5	7.64	6.66	7.18	16.70	15.06	15.93	20.17	19.06	19.54	---	---	---
6	7.95	7.10	7.49	17.23	14.88	15.96	19.31	17.17	18.47	---	---	---
7	7.82	6.44	6.94	16.60	15.18	15.93	19.33	17.28	18.43	---	---	---
8	7.11	6.18	6.67	16.58	14.56	15.66	20.16	17.47	18.61	---	---	---
9	7.24	6.22	6.85	16.48	14.77	15.71	20.95	18.83	19.87	---	---	---
10	7.97	7.14	7.59	16.28	14.51	15.22	21.35	19.03	20.65	---	---	---
11	8.33	7.78	8.00	16.34	15.14	15.82	19.03	16.08	17.74	---	---	---
12	8.47	7.22	7.80	16.34	14.59	15.45	16.08	14.23	14.63	---	---	---
13	7.47	6.10	6.44	14.60	13.79	14.08	15.03	13.50	14.30	---	---	---
14	6.68	5.07	5.88	15.20	13.71	14.29	16.22	14.58	15.40	---	---	---
15	7.81	5.35	6.40	15.24	14.10	14.59	18.34	15.89	17.26	---	---	---
16	9.09	6.31	7.40	16.41	14.18	15.15	---	---	---	---	---	---
17	10.01	8.14	8.95	18.36	14.90	16.24	---	---	---	---	---	---
18	10.46	9.17	9.77	20.83	17.72	18.96	---	---	---	---	---	---
19	12.63	10.46	11.33	21.00	20.20	20.68	---	---	---	---	---	---
20	13.86	12.63	13.45	22.54	20.96	21.57	---	---	---	---	---	---
21	14.29	13.37	13.74	22.54	20.11	21.16	---	---	---	---	---	---
22	14.39	13.51	13.74	20.11	17.99	18.89	---	---	---	---	---	---
23	15.16	13.61	14.28	18.29	17.57	17.88	---	---	---	---	---	---
24	14.08	11.40	13.22	18.50	17.79	18.22	---	---	---	---	---	---
25	11.40	8.67	9.60	18.78	17.84	18.29	---	---	---	---	---	---
26	10.41	7.81	9.01	19.69	18.78	19.29	---	---	---	---	---	---
27	11.39	8.47	9.71	20.01	19.19	19.62	---	---	---	---	---	---
28	11.37	10.10	10.57	20.75	19.77	20.09	---	---	---	---	---	---
29	12.20	11.33	11.72	20.86	19.23	19.89	---	---	---	---	---	---
30	---	---	---	20.12	19.05	19.56	---	---	---	---	---	---
31	---	---	---	20.06	18.40	19.13	---	---	---	---	---	---
MONTH	---	---	---	22.54	11.34	17.08	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued



GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

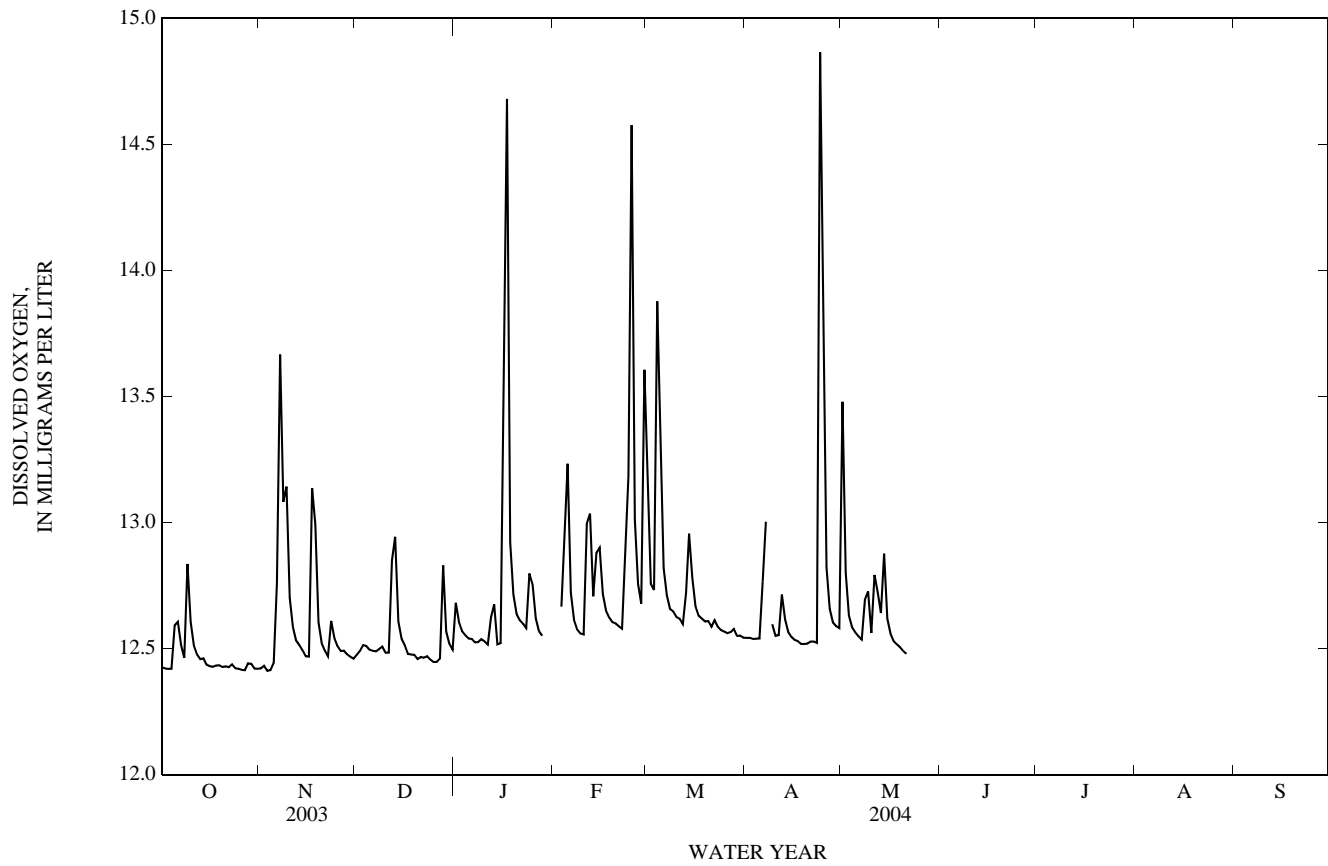
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.43	12.42	12.43	12.43	12.41	12.42	12.49	12.46	12.47	12.76	12.49	12.68
2	12.43	12.42	12.42	12.44	12.42	12.43	12.51	12.48	12.49	12.64	12.57	12.61
3	12.42	12.41	12.42	12.42	12.40	12.41	12.54	12.50	12.51	12.58	12.56	12.57
4	12.42	12.41	12.42	12.43	12.40	12.42	12.52	12.50	12.51	12.56	12.54	12.55
5	12.80	12.42	12.59	12.56	12.42	12.44	12.50	12.48	12.50	12.54	12.54	12.54
6	12.66	12.57	12.61	12.87	12.56	12.76	12.50	12.49	12.49	12.54	12.53	12.54
7	12.57	12.48	12.51	15.06	12.59	13.67	12.50	12.47	12.49	12.53	12.52	12.53
8	12.48	12.45	12.46	13.66	12.82	13.08	12.51	12.48	12.50	12.53	12.52	12.53
9	13.24	12.45	12.84	13.37	12.83	13.14	12.52	12.49	12.51	12.56	12.53	12.54
10	12.72	12.55	12.60	12.83	12.65	12.70	12.51	12.47	12.48	12.54	12.52	12.53
11	12.55	12.49	12.51	12.65	12.56	12.59	12.49	12.48	12.48	12.52	12.51	12.52
12	12.49	12.47	12.48	12.56	12.52	12.53	13.71	12.48	12.85	12.83	12.52	12.62
13	12.47	12.45	12.46	12.53	12.50	12.51	13.49	12.69	12.94	12.79	12.61	12.68
14	12.48	12.44	12.46	12.50	12.48	12.49	12.69	12.55	12.61	12.61	12.50	12.52
15	12.44	12.43	12.44	12.48	12.46	12.47	12.56	12.52	12.54	12.61	12.50	12.52
16	12.44	12.42	12.43	12.47	12.46	12.47	12.55	12.48	12.51	17.92	12.61	13.81
17	12.44	12.42	12.43	15.33	12.46	13.14	12.48	12.47	12.48	17.92	13.06	14.68
18	12.44	12.43	12.43	13.70	12.71	12.99	12.49	12.47	12.48	13.06	12.78	12.92
19	12.44	12.42	12.43	12.71	12.55	12.60	12.51	12.46	12.48	12.78	12.67	12.71
20	12.43	12.42	12.43	12.55	12.50	12.52	12.47	12.45	12.46	12.67	12.61	12.64
21	12.44	12.42	12.43	12.51	12.47	12.49	12.47	12.45	12.47	12.63	12.59	12.61
22	12.43	12.42	12.43	12.48	12.45	12.47	12.48	12.46	12.46	12.63	12.59	12.60
23	12.44	12.42	12.44	12.81	12.45	12.61	12.48	12.46	12.47	12.60	12.57	12.58
24	12.43	12.42	12.42	12.57	12.52	12.54	12.46	12.45	12.46	13.42	12.57	12.80
25	12.44	12.41	12.42	12.53	12.49	12.51	12.46	12.44	12.45	12.98	12.66	12.75
26	12.43	12.40	12.42	12.50	12.48	12.49	12.46	12.44	12.45	12.66	12.59	12.62
27	12.43	12.41	12.41	12.52	12.48	12.49	12.48	12.45	12.46	12.59	12.56	12.57
28	12.46	12.42	12.44	12.49	12.47	12.48	13.36	12.48	12.83	12.57	12.54	12.55
29	12.45	12.42	12.44	12.48	12.46	12.47	12.62	12.53	12.57	---	---	---
30	12.43	12.41	12.42	12.46	12.45	12.46	12.53	12.51	12.52	---	---	---
31	12.42	12.41	12.42	---	---	---	12.51	12.49	12.50	---	---	---
MONTH	13.24	12.40	12.47	15.33	12.40	12.63	13.71	12.44	12.53	---	---	---

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued

GAGE HEIGHT, FEET—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.55	12.85	13.07	12.55	12.53	12.54	15.25	12.76	13.48
2	---	---	---	12.85	12.71	12.76	12.55	12.54	12.54	13.00	12.56	12.80
3	12.76	12.61	12.67	12.82	12.69	12.73	12.55	12.53	12.54	12.68	12.56	12.63
4	14.05	12.59	12.93	16.94	12.70	13.88	12.54	12.53	12.54	12.65	12.57	12.58
5	14.03	12.84	13.23	14.81	12.94	13.45	12.54	12.54	12.54	12.57	12.55	12.56
6	12.84	12.65	12.72	12.94	12.75	12.82	13.07	12.54	12.77	12.56	12.54	12.55
7	12.65	12.59	12.61	12.75	12.67	12.71	13.43	12.69	13.00	12.54	12.53	12.54
8	12.59	12.56	12.58	12.67	12.65	12.66	---	---	---	13.95	12.52	12.69
9	12.56	12.55	12.56	12.67	12.64	12.65	12.64	12.55	12.60	13.13	12.58	12.73
10	12.56	12.55	12.56	12.64	12.62	12.63	12.56	12.54	12.55	12.58	12.54	12.56
11	13.37	12.56	13.00	12.63	12.60	12.62	12.77	12.53	12.55	13.94	12.54	12.79
12	13.35	12.80	13.04	12.60	12.59	12.60	12.77	12.66	12.71	13.04	12.60	12.72
13	12.80	12.66	12.71	12.86	12.59	12.72	12.67	12.59	12.62	13.27	12.55	12.64
14	13.12	12.66	12.88	13.04	12.85	12.96	12.59	12.55	12.57	13.22	12.68	12.88
15	13.05	12.78	12.90	12.92	12.70	12.78	12.55	12.54	12.55	12.68	12.58	12.62
16	12.78	12.68	12.72	12.70	12.64	12.67	12.54	12.52	12.53	12.58	12.54	12.56
17	12.68	12.63	12.65	12.64	12.61	12.63	12.55	12.52	12.53	12.54	12.52	12.53
18	12.64	12.61	12.62	12.64	12.61	12.62	12.53	12.51	12.52	12.53	12.51	12.52
19	12.61	12.59	12.60	12.62	12.60	12.61	12.52	12.51	12.52	12.51	12.49	12.51
20	12.62	12.59	12.60	12.64	12.59	12.61	12.52	12.51	12.52	12.50	12.48	12.49
21	12.60	12.58	12.59	12.63	12.57	12.59	12.54	12.52	12.53	12.49	12.47	12.48
22	12.58	12.57	12.58	12.65	12.57	12.61	12.53	12.52	12.53	---	---	---
23	13.35	12.58	12.83	12.61	12.57	12.59	12.53	12.52	12.52	---	---	---
24	14.23	12.90	13.18	12.58	12.56	12.57	16.57	12.52	14.86	---	---	---
25	15.39	13.37	14.58	12.57	12.56	12.57	13.59	13.01	13.33	---	---	---
26	13.37	12.83	13.01	12.57	12.56	12.56	13.01	12.71	12.82	---	---	---
27	12.83	12.71	12.76	12.57	12.56	12.57	12.71	12.62	12.66	---	---	---
28	12.71	12.66	12.68	12.66	12.55	12.58	12.62	12.59	12.60	---	---	---
29	14.97	12.66	13.61	12.57	12.54	12.55	12.62	12.57	12.59	---	---	---
30	---	---	---	12.56	12.54	12.55	12.89	12.56	12.58	---	---	---
31	---	---	---	12.55	12.54	12.54	---	---	---	---	---	---
MONTH	---	---	---	16.94	12.54	12.72	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049569 Big Bear Creek at State Highway 183 near Euless, TX—Continued



08049580 Mountain Creek near Venus, TX

LOCATION.--Lat 32°29'27", long 97°07'22", Johnson County, Hydrologic Unit 12030102, on right bank on upstream side of highway embankment near right end of bridge on Farm Road 157, 3.0 mi upstream from Grassy Creek, 3.2 mi upstream from Reece Branch, and 3.9 mi north of Venus.

DRAINAGE AREA.--25.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1985 to Sept. 1987 (daily mean discharges), Oct. 1987 to Sept. 2001 (peaks above base discharge), Oct. 2001 to current year.
Water-quality records: Chemical data: Dec. 1985 to Sept. 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 580.49 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.09	0.02	32	0.11	581	0.07	24	2.3	0.12
2	0.00	0.00	0.00	0.10	0.02	7.0	0.11	38	1.9	4.8	1.3	0.12
3	0.00	0.00	0.00	0.12	0.03	3.9	0.11	5.8	9.3	1.7	0.94	0.10
4	0.00	0.00	0.00	0.14	0.06	205	0.10	1.2	3.7	1.1	1.1	0.09
5	325	0.00	0.00	0.10	68	95	0.10	0.32	0.93	0.78	1.2	0.09
6	81	0.00	0.00	0.07	10	13	0.11	0.18	0.28	0.55	1.1	77
7	18	0.00	0.00	0.05	1.0	4.4	0.11	0.11	0.07	0.39	1.1	12
8	3.0	0.00	0.00	0.05	0.18	2.5	0.10	0.11	136	0.23	1.1	1.5
9	121	0.00	0.00	0.05	0.08	1.7	0.10	0.23	807	0.14	1.2	0.44
10	29	0.00	0.00	0.04	0.04	1.2	0.09	0.23	328	0.11	1.1	0.23
11	4.9	0.00	0.00	0.04	148	0.89	0.09	0.37	17	0.07	1.1	0.17
12	1.6	0.00	0.00	0.05	63	0.69	0.12	0.42	1.7	0.05	0.98	0.15
13	0.83	0.00	0.79	0.07	5.7	0.70	0.10	0.49	0.13	0.04	0.90	0.12
14	0.39	0.00	0.94	0.10	2.1	49	0.10	0.41	0.03	0.04	0.88	0.12
15	0.15	0.00	0.40	0.09	9.5	9.1	0.08	0.46	0.01	0.04	0.88	0.21
16	0.09	0.00	0.16	44	2.8	2.6	0.09	0.43	0.01	0.04	0.79	0.16
17	0.05	0.00	0.09	402	0.76	1.2	0.08	0.35	0.01	0.04	0.70	0.13
18	0.00	0.00	0.06	12	0.25	0.67	0.08	0.37	0.01	0.04	0.65	0.10
19	0.00	0.00	0.04	1.5	0.13	0.47	0.11	0.32	0.01	0.04	385	0.08
20	0.00	0.01	0.03	0.25	0.10	0.36	0.19	0.27	0.01	0.04	83	0.07
21	0.00	0.03	0.03	0.07	0.07	0.24	0.20	0.21	0.01	0.02	9.3	0.06
22	0.00	0.03	0.05	0.03	0.06	0.18	0.17	0.17	0.01	0.02	3.2	0.06
23	0.00	0.00	0.04	0.02	0.05	0.16	0.14	0.13	0.01	0.02	1.5	0.05
24	0.00	0.00	0.04	0.02	65	0.16	415	0.10	0.01	0.02	0.95	0.04
25	0.00	0.00	0.04	0.02	644	0.15	327	0.09	0.01	0.02	0.60	0.04
26	0.00	0.00	0.04	0.02	44	0.14	35	0.10	0.01	0.02	0.40	0.03
27	0.00	0.00	0.06	0.02	11	0.16	2.8	0.11	0.01	0.02	0.29	0.03
28	0.00	0.00	0.07	0.02	4.8	0.15	0.34	0.31	240	0.02	0.37	0.02
29	0.00	0.00	0.07	0.02	57	0.16	0.12	0.20	129	795	0.40	0.02
30	0.00	0.00	0.07	0.02	---	0.12	4.5	0.10	175	38	0.25	0.02
31	0.00	---	0.07	0.02	---	0.12	---	0.05	---	8.1	0.17	---
TOTAL	585.01	0.07	3.09	461.19	1,137.75	433.12	787.35	632.64	1,850.24	875.50	504.75	93.37
MEAN	18.9	0.00	0.10	14.9	39.2	14.0	26.2	20.4	61.7	28.2	16.3	3.11
MAX	325	0.03	0.94	402	644	205	415	581	807	795	385	77
MIN	0.00	0.00	0.00	0.02	0.02	0.12	0.08	0.05	0.01	0.02	0.17	0.02
AC-FT	1,160	0.1	6.1	915	2,260	859	1,560	1,250	3,670	1,740	1,000	185

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004h, BY WATER YEAR (WY)

	MEAN	13.0	7.87	28.9	11.0	32.4	19.2	22.5	21.6	19.9	3.09	3.86	3.33
MAX	140	29.9	144	34.7	148	66.8	80.7	71.8	61.7	28.2	24.0	29.8	
(WY)	(1992)	(1999)	(1992)	(1992)	(1997)	(1995)	(1997)	(1995)	(2004)	(2004)	(1991)	(1991)	
MIN	0.00	0.00	0.00	0.00	0.07	0.03	0.01	0.04	0.00	0.00	0.00	0.00	
(WY)	(1991)	(1994)	(1991)	(1994)	(1995)	(1996)	(1994)	(1998)	(1996)	(1993)	(1986)	(1987)	

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

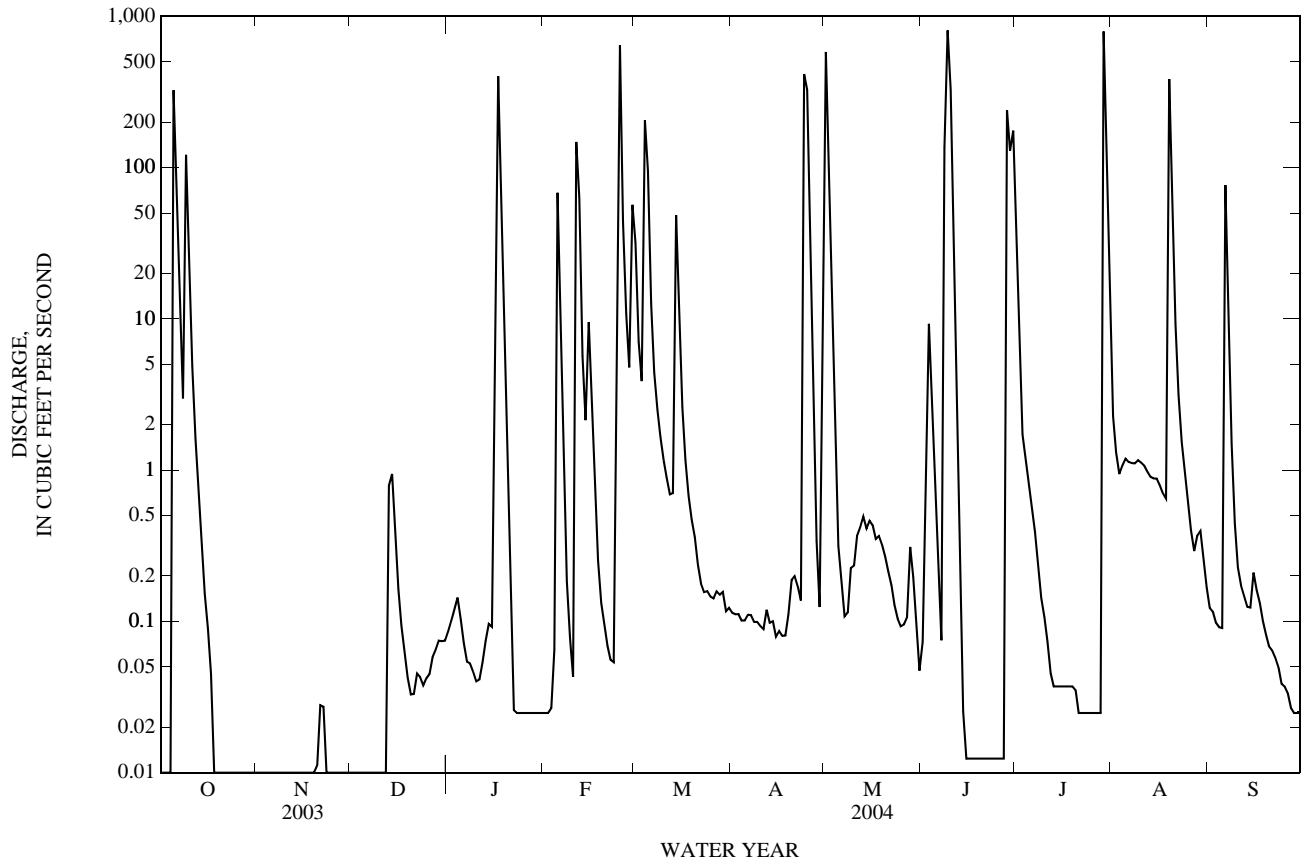
FOR 2004 WATER YEAR

WATER YEARS 1986 - 2004h

ANNUAL TOTAL	3,288.58	7,364.08	
ANNUAL MEAN	9.01	20.1	15.6
HIGHEST ANNUAL MEAN			43.1
LOWEST ANNUAL MEAN			1.84
HIGHEST DAILY MEAN	438	807	3,340
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW		2,180	10,100
MAXIMUM PEAK STAGE		10.19	15.04
ANNUAL RUNOFF (AC-FT)	6,520	14,610	11,310
10 PERCENT EXCEEDS	3.1	14	18
50 PERCENT EXCEEDS	0.03	0.11	0.01
90 PERCENT EXCEEDS	0.00	0.00	0.00

h See Period of Record paragraph.

08049580 Mountain Creek near Venus, TX—Continued



08049580 Mountain Creek near Venus, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Dec. 1985 to Sept. 1993, Jan. 2003 to current year.

BIOCHEMICAL DATA: Jan. 2003 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JAN 22...	1214	.02	24	761	8.0	72	7.7	535	10.5	100	230	83.8	5.18
FEB 02...	1100	.28	--	760	12.0	99	8.2	989	6.7	--	--	--	--
MAR 31...	1010	.12	3.4	760	9.3	--	7.8	--e	18.5	320	540	193	14.0
MAY 26...	0845	.20	--	--e	5.6	--	7.6	844	22.8	--	--	--	--
JUN 15...	0925	.01	5.8	760	5.6	69	7.5	662	25.5	130	300	108	6.21
JUL 02...	1100	--	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	0850	1.1	6.7	755	5.1	64	7.5	896	25.9	210	410	149	10.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
JAN 22...	7.61	.6	22.1	17	129	156	<1	13.4	.4	17.2	111	348	--
FEB 02...	--	--	--	--	186	--	--	31.0	--	--	289	--	--
MAR 31...	5.45	1	68.0	21	221	267	1	42.5	.6	7.17	354d	817	909
MAY 26...	--	--	--	--	252	--	--	65.9	--	--	587d	--	--
JUN 15...	6.06	.7	27.0	16	168	204	<1	16.0	.5	22.6	135	423	463
JUL 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	5.85	.8	37.4	16	201	244	<1	23.2	.6	18.1	234	599	634

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)
JAN 22...	17d	<.04	2.12	2.34	.215	.346	.113	.159	--	--	--	--	13.3
FEB 02...	--	<.04	--	.57	E.006n	.021	.007	--	.040	1.07	.5	8.5	--
MAR 31...	<10	<.04	--	<.06	<.008	--	E.005n	.022	--	--	--	--	15.7
MAY 26...	--	<.04	--	<.06	<.008	.021	.007	--	.020	.39	.4	5.1	--
JUN 15...	11	<.04	--	.10	E.004n	.126	.041	.070	--	--	--	--	13.7
JUL 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	25	<.04	--	<.06	<.008	--	E.003n	.018	--	--	--	--	9.9

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Peri- phyton biomass ash weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)	Alum- inum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
JAN 22...	<2.0	--	--	--	--	2	.28	4	51	<.06	E.03n	<.8	.769
FEB 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	<2.0	--	--	--	--	E2n	.25	3	101	<.06	E.02n	<.8	.999
MAY 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 15...	<2.0	--	--	--	--	E1n	.30	4	71	<.06	E.03n	<.8	.678
JUL 02...	--	37	41.30	826	4.8d	--	--	--	--	--	--	--	--
AUG 11...	<2.0c	--	--	--	--	E2n	.27	3	92	<.06	E.03n	<.8	.684

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	CIAT water, fltrd, ug/L (04040)
JAN 22...	4.0	--	<.08	33.8	<.02	8.2	5.25	<3	<.2	2.9	--	--	--
FEB 02...	--	--	--	--	--	--	--	--	--	--	<.09	<.006	E.050
MAR 31...	3.4	17	<.08	96.3	<.02	6.8	5.34	<3	<.2	1.5	--	--	--
MAY 26...	--	--	--	--	--	--	--	--	--	--	<.09	<.006	E.063
JUN 15...	3.8	25	<.08	35.1	<.02	7.9	5.08	<3	<.2	1.5	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	3.1	9	<.08	64.6	<.02	8.7	5.27	<3	<.2	1.0	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08049580 Mountain Creek near Venus, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd, 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Pendimethalin, water, fltrd, 0.7u GF ug/L (82683)	Phorate water, fltrd, 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)	Simazine, water, fltrd, ug/L (04035)
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 02...	<.013	<.024	<.016	<.003	<.027	<.015	E.008n	<.006	<.022	<.011	<.01	<.004	<.006
MAR 31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	<.013	<.024	<.016	<.003	<.027	<.015	.035	<.006	<.022	<.011	<.01	<.004	.053
JUN 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Tebu-thiuron water, fltrd, 0.7u GF ug/L (82670)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
JAN 22...	--	--	--	2.14	--	--
FEB 02...	<.02	<.02	<.009	--	55	.04
MAR 31...	--	--	--	6.00	--	--
MAY 26...	<.02	<.02	<.009	--	23	.01
JUN 15...	--	--	--	2.65	--	--
JUL 02...	--	--	--	--	--	--
AUG 11...	--	--	--	2.98	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

c -- See laboratory comment

d -- Diluted sample: method hi range exceeded

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

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08049700 Walnut Creek near Mansfield, TX

LOCATION.--Lat 32°34'51", long 97°06'06", Tarrant County, Hydrologic Unit 12030102, on right bank at downstream side of bridge on county road, 2.6 mi northeast of Mansfield, 3.3 mi downstream from Texas and New Orleans Railroad Co. bridge, and 10.2 mi upstream from mouth.

DRAINAGE AREA.--62.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 531.08 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.2	0.93	0.17	9.7	57	1.3	1,330	69	45	25	1.9
2	0.98	1.8	0.80	0.23	18	14	1.5	100	155	26	18	2.6
3	0.61	1.8	0.80	0.27	5.6	7.2	1.6	27	115	19	14	2.7
4	0.44	1.3	0.75	0.27	54	305	1.5	14	11	15	12	2.4
5	498	0.99	0.69	0.06	102	215	1.5	9.8	4.7	13	9.7	4.2
6	123	1.0	0.52	0.02	22	20	8.3	6.9	2.8	11	8.6	107
7	19	18	0.74	0.01	8.7	8.1	3.4	5.6	2.0	8.2	7.8	15
8	6.4	4.8	1.2	0.02	6.0	5.2	2.8	7.0	162	8.7	7.0	22
9	146	3.3	0.92	0.03	6.3	4.2	2.5	8.2	1,190	7.6	6.7	23
10	25	2.1	6.7	0.03	6.1	3.7	2.7	5.8	1,080	6.6	6.6	22
11	6.7	1.1	3.4	0.01	125	3.2	3.0	30	49	5.8	6.8	22
12	4.6	0.85	54	0.02	94	2.7	5.8	4.4	29	5.3	5.8	22
13	3.1	0.77	19	0.15	18	3.4	3.6	8.8	23	4.9	5.2	22
14	4.6	0.68	5.1	1.4	21	37	3.0	6.8	19	4.5	4.8	19
15	3.5	0.70	1.5	0.16	22	11	2.9	3.3	73	5.0	4.8	11
16	2.4	0.68	0.66	342	12	4.8	3.0	2.9	32	4.0	4.3	19
17	1.9	97	0.50	758	8.6	3.4	2.8	2.7	18	3.5	4.1	20
18	1.8	19	0.50	44	7.0	2.9	2.1	2.4	15	3.8	4.4	18
19	1.8	5.8	0.33	16	7.3	2.7	2.1	2.1	14	2.8	166	17
20	1.3	4.3	0.38	11	10	2.5	2.3	2.2	13	2.7	58	16
21	1.1	2.3	0.39	7.4	5.7	1.9	2.5	2.3	11	2.8	11	14
22	1.1	1.2	0.56	6.3	5.1	1.7	2.6	2.0	11	2.7	7.7	18
23	1.1	3.5	0.39	5.7	30	1.7	2.6	1.9	11	2.7	6.5	8.3
24	1.1	3.6	0.30	7.1	190	1.8	1,170	2.0	9.6	2.6	6.1	10
25	0.98	1.1	0.23	8.4	1,250	1.6	1,120	2.5	127	2.5	4.9	19
26	1.2	1.0	0.25	5.3	22	1.7	105	1.9	117	2.5	3.6	9.6
27	1.3	0.77	0.31	4.1	12	1.6	23	37	80	2.6	3.4	10
28	1.2	0.59	0.73	3.1	6.8	3.3	13	42	1,270	159	23	5.1
29	1.2	0.54	0.75	3.3	168	2.6	11	4.3	358	7,990	4.6	4.8
30	1.1	0.77	0.19	3.1	---	1.5	30	2.1	262	2,300	3.0	3.7
31	1.1	---	0.13	2.8	---	1.3	---	1.5	---	47	3.1	---
TOTAL	864.91	182.54	103.65	1,230.45	2,252.9	733.7	2,537.4	1,679.4	5,333.1	10,716.8	456.5	491.3
MEAN	27.9	6.08	3.34	39.7	77.7	23.7	84.6	54.2	178	346	14.7	16.4
MAX	498	97	54	758	1,250	305	1,170	1,330	1,270	7,990	166	107
MIN	0.44	0.54	0.13	0.01	5.1	1.3	1.3	1.5	2.0	2.5	3.0	1.9
AC-FT	1,720	362	206	2,440	4,470	1,460	5,030	3,330	10,580	21,260	905	974

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	18.6	9.85	19.9	9.71	27.7	30.9	39.0	50.9	34.5	12.7	3.88	8.10
MAX	272	164	326	64.5	173	184	174	378	300	346	55.9	78.6
(WY)	(1992)	(2001)	(1992)	(1992)	(1997)	(1977)	(1990)	(1989)	(1986)	(2004)	(2001)	(2003)
MIN	0.00	0.00	0.00	0.00	0.01	0.13	0.40	0.07	0.03	0.00	0.00	0.00
(WY)	(1964)	(1961)	(1964)	(1981)	(1981)	(1963)	(1978)	(1962)	(1963)	(1964)	(1961)	(1971)

SUMMARY STATISTICS

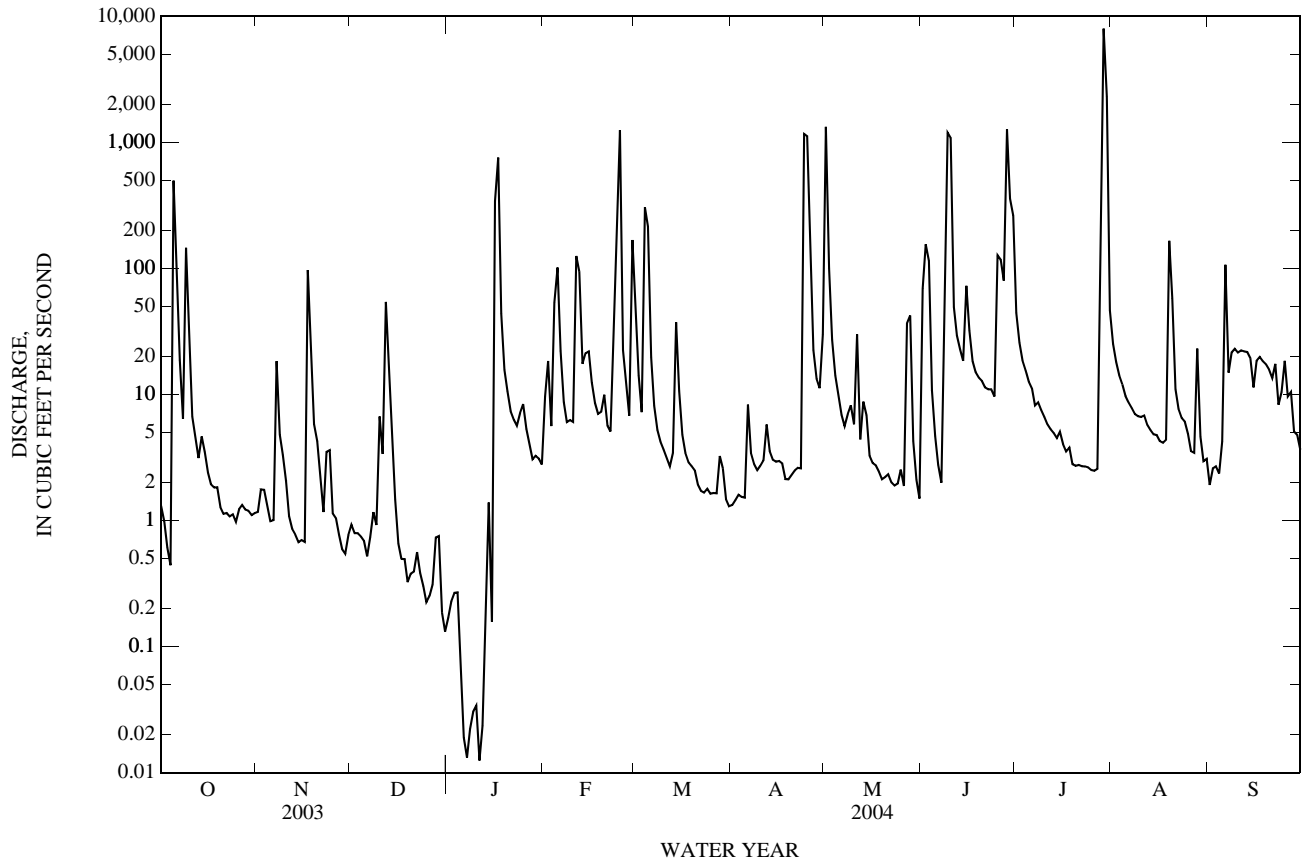
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1961 - 2004

ANNUAL TOTAL	11,055.93	26,582.65	
ANNUAL MEAN	30.3	72.6	22.1
HIGHEST ANNUAL MEAN			82.2
LOWEST ANNUAL MEAN			1.34
HIGHEST DAILY MEAN	1,220	7,990	7,990
LOWEST DAILY MEAN	0.00	0.01	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.02	0.00
MAXIMUM PEAK FLOW		17,000	22,800
MAXIMUM PEAK STAGE		32.01	33.77
ANNUAL RUNOFF (AC-FT)	21,930	52,730	16,000
10 PERCENT EXCEEDS	54	70	17
50 PERCENT EXCEEDS	2.5	4.8	0.33
90 PERCENT EXCEEDS	0.13	0.70	0.00

08049700 Walnut Creek near Mansfield, TX—Continued



08049700 Walnut Creek near Mansfield, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Dec. 1985 to Sept. 1993, Jan. 2003 to current year.

BIOCHEMICAL DATA: Dec. 1985 to Sept. 1993, Jan. 2003 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltd, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltd, std units (00400)	Specific conductance, wat unfltd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarbohardness, wat fltd, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltd, mg/L (00915)	Magnesium, water, fltd, mg/L (00925)
JAN 22...	1400	5.7	39	--	11.1	--	7.7	844	8.3	160	340	108	17.7
MAR 31...	1330	1.3	2.3	760	10.8	113	7.7	1,370	17.0	320	600	185	33.3
JUN 15...	1053	18	12	760	7.5	90	7.7	1,180	24.0	230	510	158	27.3
AUG 11...	1007	6.5	6.4	755	6.4	79	7.6	1,470	25.4	330	640	198	35.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat fltd inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltd incrm. titr., field, mg/L (00453)	Carbonate, wat fltd incrm. titr., field, mg/L (00452)	Chloride, water, fltd, mg/L (00940)	Fluoride, water, fltd, mg/L (00950)	Silica, water, fltd, mg/L (00955)	Sulfate, water, fltd, mg/L (00945)	Residue water, fltd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat fltd mg/L (70300)
JAN 22...	6.19	1	48.0	23	184	223	1	43.0	.4	14.3	190	541	--
MAR 31...	5.52	2	97.3	26	277	334	2	91.9	.6	9.09	329d	918	969
JUN 15...	6.31	1	69.8	23	276	333	2	62.8	.5	20.7	261	773	791
AUG 11...	5.54	1	86.8	23	313	378	2	81.6	.5	17.8	374d	990	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, fltd, mg/L as N (00608)	Nitrate water, fltd, mg/L as N (00618)	Nitrite + nitrate water, fltd, mg/L as N (00631)	Nitrite water, fltd, mg/L as N (00613)	Orthophosphate, water, fltd, mg/L (00660)	Orthophosphate, water, fltd, mg/L as P (00671)	Phosphorus, water, fltd, mg/L (00666)	Organic carbon, water, unfltd mg/L (00680)	BOD, water, unfltd 5 day, 20 degC mg/L (00310)	Aluminum, water, fltd, ug/L (01106)	Antimony, water, fltd, ug/L (01095)	Arsenic water, fltd, ug/L (01000)
JAN 22...	31d	<.04	.48	.50	.015	.064	.021	.048	7.1	<2.0	6	E.11n	<2
MAR 31...	<10	<.04	--	E.03n	<.008	--	<.006	.011	9.9	<2.0	6	E.10n	E1n
JUN 15...	17	E.03n	.27	.28	.010	.098	.032	.045	5.8	<2.0	8	E.12n	<2
AUG 11...	<10	E.02n	.57	.58	.009	.046	.015	.021	6.9	<2.0c	3	<.20	E1n

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Barium, water, fltd, ug/L (01005)	Beryllium, water, fltd, ug/L (01010)	Cadmium, water, fltd, ug/L (01025)	Chromium, water, fltd, ug/L (01030)	Cobalt, water, fltd, ug/L (01035)	Copper, water, fltd, ug/L (01040)	Iron, water, fltd, ug/L (01046)	Lead, water, fltd, ug/L (01049)	Manganese, water, fltd, ug/L (01056)	Mercury, water, fltd, ug/L (71890)	Molybdenum, water, fltd, ug/L (01060)	Nickel, water, fltd, ug/L (01065)	Selenium, water, fltd, ug/L (01145)
JAN 22...	58	<.06	<.04	<.8	1.34	3.4	--	<.08	289	<.02	1.9	5.29	<3
MAR 31...	92	<.06	.06	<.8	1.05	4.1	13	<.08	175	<.02	3.5	5.29	<3
JUN 15...	106	<.06	E.02n	<.8	1.12	3.4	E4n	<.08	244	<.02	2.4	3.72	<3
AUG 11...	122	<.06	.18	<.8	1.38	3.7	--	<.08	164	<.02	2.7	5.39	<3

08049700 Walnut Creek near Mansfield, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JAN 22...	<.2	13.2r	2.66
MAR 31...	<.2	2.8	4.84
JUN 15...	<.2	1.4	5.37
AUG 11...	<.2	2.8	5.95

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

c -- See laboratory comment
d -- Diluted sample: method hi range
exceeded
n -- Below the LRL and above the LT-
MDL
r -- Value verified by rerun, same method

08049800 Joe Pool Lake near Duncanville, TX

LOCATION.--Lat 32°38'36", long 97°00'03", Dallas County, Hydrologic Unit 12030102, in control room of outlet works tower located 285 ft upstream from centerline of Joe Pool Dam on Mountain Creek, 0.7 mi downstream from Walnut Creek, 0.7 mi upstream from bridge over Mountain Creek on Camp Wisdom Road, 1.0 mi downstream from John Penn Branch, 5.5 mi west of water towers in downtown Duncanville, 7.1 mi upstream from Mountain Creek Dam on Mountain Creek, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--232 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Jan. 1986 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 22,360 ft long, including a 50 foot uncontrolled broad-crested concrete spillway. Impoundment of water began Jan. 7, 1986, after closure of the dam was completed in Dec. 1985. The flood-control outlet works consist of a 10.5 foot diameter conduit that is controlled by two 4.75 by 10.5 foot slide gates. Above an elevation of 541 ft, water will flow over a 50 foot long uncontrolled broad-crested concrete spillway located 0.5 mi to left of the outlet works tower. The low-flow outlet works consist of four 3 by 5 foot slide gates having invert elevations at 486.0, 495.0, 504.0, and 513.0 ft that open to a wet-well. Discharge from the wet-well to the 10.5 foot diameter conduit is controlled by a 2 by 4 foot gate with invert at elevation 483.0 ft. A low flow bypass system consisting of a turbine pump and 10 inch diameter piping is also available for use if needed. The lake was built for water supply, conservation, and flood control. Conservation pool storage is 176,900 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	564.5
Crest of spillway	541.0
Top of conservation pool	522.0
Lowest gated outlet	466.0

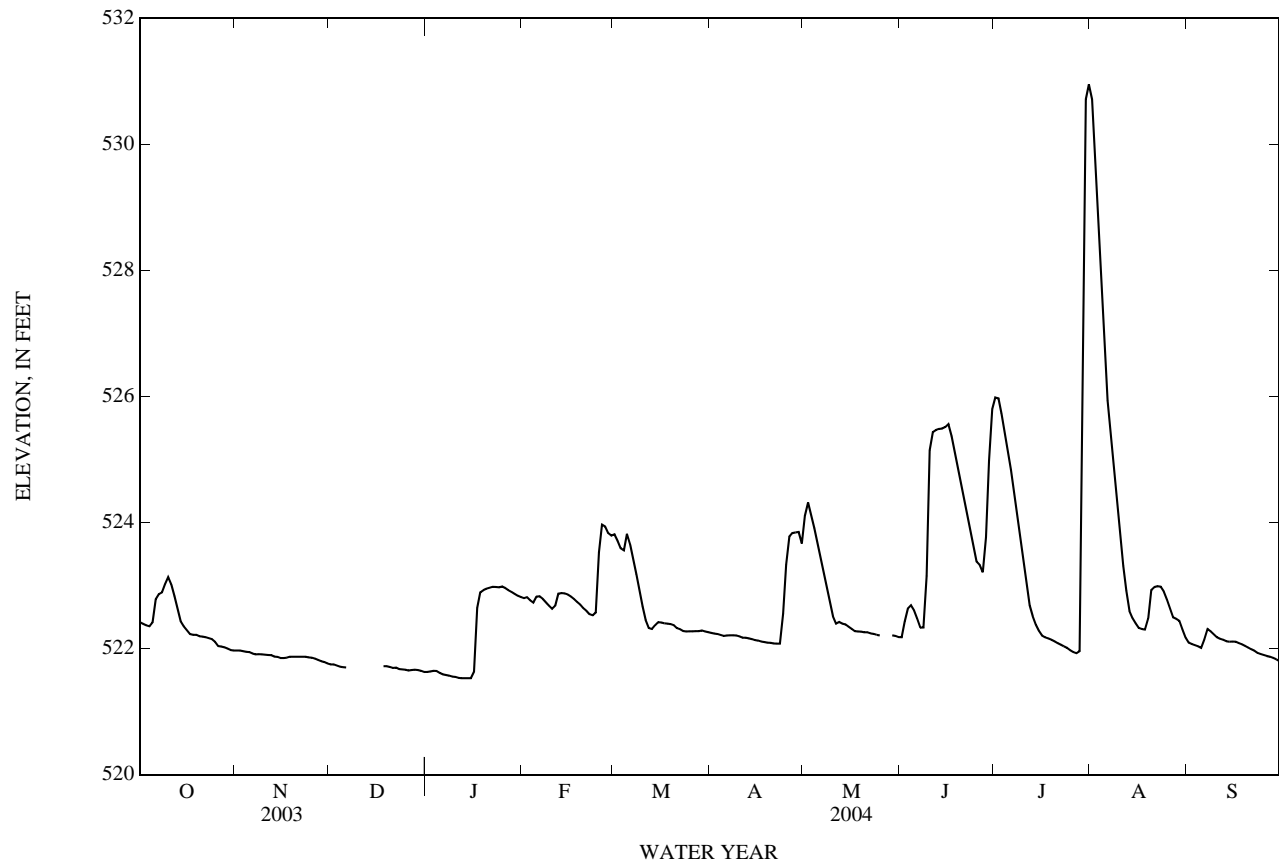
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 274,600 acre-ft, May 20, 1990, elevation 533.21 ft; minimum contents after initial filling, 75,910 acre-ft, Jan. 24, 1989, elevation, 507.84 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 530.97 ft, July 31; minimum elevation, 521.51 ft, Jan. 16.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522.42	521.97	521.75	521.63	522.80	523.81	522.25	524.11	522.18	525.98	530.72	522.09
2	522.39	521.97	521.75	521.64	522.82	523.71	522.24	524.32	522.43	525.97	529.89	522.07
3	522.37	521.96	521.73	521.65	522.76	523.59	522.23	524.13	522.64	525.73	528.92	522.05
4	522.35	521.95	521.71	521.65	522.73	523.56	522.22	523.91	522.69	525.44	527.91	522.04
5	522.41	521.94	521.70	521.62	522.82	523.82	522.20	523.68	522.60	525.14	526.89	522.01
6	522.79	521.92	521.70	521.59	522.83	523.65	522.21	523.44	522.48	524.84	525.94	522.14
7	522.86	521.91	---	521.58	522.79	523.41	522.21	523.20	522.33	524.50	525.38	522.31
8	522.89	521.91	---	521.57	522.74	523.18	522.21	522.97	522.33	524.14	524.86	522.27
9	523.02	521.91	---	521.56	522.68	522.92	522.21	522.74	523.15	523.78	524.35	522.23
10	523.14	521.90	---	521.55	522.63	522.67	522.19	522.51	525.15	523.41	523.83	522.18
11	523.02	521.90	---	521.54	522.68	522.46	522.17	522.40	525.43	523.04	523.31	522.16
12	522.83	521.90	---	521.53	522.87	522.33	522.17	522.42	525.47	522.69	522.92	522.14
13	522.64	521.87	---	521.53	522.88	522.31	522.16	522.40	525.49	522.51	522.59	522.12
14	522.43	521.87	---	521.53	522.88	522.37	522.15	522.38	525.49	522.38	522.48	522.11
15	522.35	521.85	---	521.53	522.86	522.42	522.14	522.35	525.52	522.28	522.40	522.11
16	522.29	521.85	---	521.63	522.83	522.42	522.13	522.31	525.56	522.21	522.33	522.11
17	522.23	521.86	---	522.64	522.79	522.40	522.11	522.28	525.37	522.18	522.31	522.09
18	522.22	521.87	521.72	522.89	522.74	522.40	522.11	522.27	525.14	522.16	522.30	522.07
19	522.22	521.87	521.72	522.93	522.70	522.39	522.10	522.27	524.89	522.14	522.48	522.04
20	522.20	521.87	521.71	522.95	522.64	522.37	522.09	522.26	524.64	522.11	522.93	522.02
21	522.19	521.87	521.69	522.97	522.60	522.32	522.08	522.26	524.39	522.09	522.98	521.99
22	522.18	521.87	521.70	522.98	522.55	522.31	522.08	522.24	524.12	522.06	522.99	521.97
23	522.17	521.87	521.67	522.98	522.53	522.28	522.08	522.23	523.86	522.04	522.98	521.93
24	522.15	521.86	521.67	522.97	522.57	522.27	522.55	522.22	523.61	522.01	522.91	521.91
25	522.11	521.85	521.66	522.99	523.53	522.27	523.33	522.21	523.38	521.98	522.78	521.90
26	522.04	521.84	521.65	522.96	523.97	522.27	523.78	---	523.33	521.94	522.64	521.88
27	522.03	521.82	521.66	522.93	523.94	522.28	523.83	---	523.21	521.93	522.50	521.87
28	522.02	521.80	521.66	522.90	523.83	522.28	523.84	---	523.77	521.96	522.47	521.85
29	522.00	521.79	521.66	522.87	523.79	522.29	523.85	522.21	524.98	527.32	522.44	521.83
30	521.98	521.76	521.65	522.84	---	522.27	523.67	522.20	525.80	530.72	522.31	521.80
31	521.97	---	521.63	522.82	---	522.26	---	522.18	---	530.95	522.17	---
MEAN	522.38	521.88	---	522.22	522.92	522.69	522.49	---	524.05	523.79	524.00	522.04
MAX	523.14	521.97	---	522.99	523.97	523.82	523.85	---	525.80	530.95	530.72	522.31
MIN	521.97	521.76	---	521.53	522.53	522.26	522.08	---	522.18	521.93	522.17	521.80

08049800 Joe Pool Lake near Duncanville, TX—Continued



08049800 Joe Pool Lake near Duncanville, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Jan. 1986 to Sept. 1993, Jan. 2003 to current year.

BIOCHEMICAL DATA: Jan. 1986 to Sept. 1993, Jan. 2003 to current year.

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Reser- voir storage acre-ft (00054)	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)
JAN													
22...	1149	--	1.00	.91	--	--	--	--	--	--	--	--	--
22...	1150	184,000	1.00	.91	767	11.1	100	8.1	490	--	11.0	69	170
JAN													
22-22	1150	--	--	--	--	--	--	--	--	--	--	--	--
22...	1200	--	10.0	--	767	10.8	96	8.0	490	--	10.5	--	--
22...	1210	--	20.0	--	767	10.7	95	8.0	490	--	10.5	--	--
22...	1220	--	30.0	--	767	10.7	95	7.9	490	--	10.5	--	--
22...	1230	--	40.0	--	767	10.4	93	7.9	491	--	10.5	--	--
22...	1240	--	51.0	--	767	10.4	93	7.8	492	--	10.5	66	170
JUN													
16-16	1114	--	--	--	--	--	--	--	--	--	--	--	--
16...	1141	--	1.00	1.28	766	8.6	109	8.5	493	--	27.5	72	170
16...	1146	--	10.0	--	766	8.6	109	8.4	494	--	27.5	--	--
16...	1151	--	20.0	--	766	7.3	90	8.1	499	--	26.0	--	--
16...	1156	--	30.0	--	766	6.5	80	8.0	498	--	26.0	--	--
16...	1201	--	40.0	--	766	6.1	74	7.9	497	--	25.5	--	--
16...	1208	--	52.0	--	766	5.4	--	7.8	495	--	--	68	170
AUG													
11-11	0845	--	--	--	--	--	--	--	--	--	--	--	--
11...	0900	--	10.0	--	762	8.9	117	8.5	396	31.0	29.5	--	--
11...	0906	--	2.30	1.50	--	--	--	--	--	--	--	--	--
11...	0907	--	1.00	1.50	762	8.8	117	8.6	397	31.0	30.0	54	140
11...	0920	--	20.0	--	762	7.8	101	8.4	400	31.0	28.5	--	--
11...	0926	--	30.0	--	762	E.1	--	7.5	331	31.0	26.0	--	--
11...	0932	--	40.0	--	762	E.1	--	7.6	268	31.0	25.0	--	--
11...	0938	--	50.0	--	762	E.2	--	7.7	249	31.0	24.5	25	94

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., mg/L (00453)	Carbon- ate, wat flt incrm. titr., mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	56.9	5.80	8.48	1	32.8	29	98	118	<1	18.9	.5	3.9	108
JAN													
22-22	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	57.6	5.83	8.58	1	32.8	29	103	124	<1	18.6	.5	3.9	108
JUN													
16-16	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	58.8	5.35	8.23	1	33.4	29	97	114	2	17.8	.4	3.4	102
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	58.3	5.24	8.13	1	32.2	28	100	121	<1	17.9	.4	4.1	99.9
AUG													
11-11	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	46.7	4.62	7.31	1	25.9	28	82	97	1	14.6	.4	5.5	86.3
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	34.0	2.24	4.94	.5	10.7	19	70	85	<1	6.09	.3	6.4	37.6

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue water, ftrd, sum of constituents mg/L (70301)	Ammonia water, ftrd, mg/L as N (00608)	Nitrate water, ftrd, mg/L as N (00618)	Nitrite + nitrate water ftrd, mg/L as N (00631)	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L (00660)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Pheophy- tin a, phyto- plank- ton, acid m, ug/L (32218)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Iron, water, ftrd, ug/L (01046)
JAN 22...	--	--	--	--	--	--	--	--	.008	--	--	.003	--
22...	294	<.04	--	.11	<.008	--	<.006	.005	--	E5k	E4k	--	<6
JAN 22-22	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	297	<.04	--	.11	<.008	--	<.006	.006	--	--	--	--	<6
JUN 16-16	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	288	<.04	--	.21	<.008	--	<.006	.007	--	<1k	<1k	--	<6
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	287	<.04	.31	.33	.016	--	<.006	.006	--	--	--	--	<6
AUG 11-11	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	.007	--	--	.007	--
11...	240	<.04	--	<.06	<.008	--	<.006	.006	--	<1	<1	--	<6
11...	--	<.04	--	<.06	<.008	--	<.006	.007	--	--	--	--	<6
11...	--	<.04	.11	.13	.014	--	<.006	.006	--	--	--	--	E4n
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	145	.09	.17	.29	.124	.117	.038	.053	--	--	--	--	24

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08049800 Joe Pool Lake near Duncanville, TX—Continued

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08049800 Joe Pool Lake near Duncanville, TX—Continued

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
22-22	<.022	<.011	.01	<.004	<.025	<.011	<.02	.301	.02	<.034	<.02	<.010	<.002
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
16-16	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.322	.02	<.034	<.02	<.010	<.002
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
11-11	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.145	<.02	<.034	<.02	<.010	<.002
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

323819096584801 -- JOE POOL LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Xylenes water unfltrd ug/L (81551)	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Toluene water unfltrd ug/L (34010)
JAN								
22...	--	--	--	--	--	--	--	--
22...	--	<.2	<.1	<.1	<.2	<.1	<.2	<.1
JAN								
22-22	<.009	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
JUN								
16-16	<.009	--	--	--	--	--	--	--
16...	--	E.2	.1	<.1	E.2	<.1	1.4	.2
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
AUG								
11-11	<.009	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	<.2	<.1	<.1	<.2	<.1	1.8	<.1
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--

TRINITY RIVER BASIN

08049800 Joe Pool Lake near Duncanville, TX—Continued

323812096591701 -- JOE POOL LK SITE AR
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
JAN								
22...	1346	1.00	766	11.0	99	8.1	490	11.0
22...	1349	10.0	766	10.9	97	8.1	490	10.5
22...	1351	20.0	766	10.8	96	8.1	490	10.5
22...	1353	30.0	766	10.7	96	8.0	490	10.5
22...	1355	41.0	766	10.7	96	8.1	490	10.5
JUN								
15...	1223	1.00	764	9.0	115	8.7	491	28.0
15...	1225	10.0	764	9.1	115	8.6	491	27.5
15...	1228	20.0	764	7.6	94	8.2	496	26.5
15...	1230	30.0	764	6.2	76	8.1	498	26.0
15...	1233	41.0	764	6.2	76	8.0	498	25.5
AUG								
11...	0946	1.00	762	8.6	114	8.6	398	30.0
11...	0948	10.0	762	8.8	116	8.6	398	29.5
11...	0950	20.0	762	6.4	81	8.1	401	28.0
11...	0953	30.0	762	E.2	--	7.7	329	25.5
11...	0955	40.0	762	E.3	--	7.9	262	24.5

323731097013901 -- JOE POOL LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
JAN													
22...	1316	1.00	.88	765	11.4	103	8.2	487	--	11.0	73	170	59.2
22...	1321	10.0	--	765	10.8	97	8.1	485	--	10.5	--	--	--
22...	1326	20.0	--	765	10.8	97	8.1	486	--	10.5	--	--	--
22...	1332	30.0	--	765	10.4	93	8.0	485	--	10.5	--	--	--
22...	1337	43.0	--	765	10.4	93	8.0	486	--	10.5	68	170	57.7
JUN													
16...	1250	1.00	1.04	765	9.9	127	8.7	471	--	28.5	85	160	55.7
16...	1255	10.0	--	765	8.5	106	8.4	475	--	26.5	--	--	--
16...	1300	20.0	--	765	7.0	86	8.1	473	--	26.0	--	--	--
16...	1305	30.0	--	765	6.3	77	7.9	476	--	25.5	--	--	--
16...	1310	44.0	--	765	3.2	39	7.7	427	--	25.5	48	150	50.9
AUG													
11...	1007	1.00	1.49	767	8.4	110	8.6	407	29.0	29.5	59	140	47.9
11...	1011	10.0	--	767	8.1	105	8.5	405	29.0	29.5	--	--	--
11...	1015	20.0	--	767	1.4	18	7.6	399	29.0	27.0	--	--	--
11...	1020	30.0	--	767	E.1	--	7.6	278	29.0	25.0	--	--	--
11...	1026	40.0	--	767	E.3	--	7.8	243	29.0	24.5	25	94	33.6

08049800 Joe Pool Lake near Duncanville, TX—Continued

323731097013901 -- JOE POOL LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
JAN													
22...	6.01	8.57	1	33.8	29	101	122	<1	17.9	.5	3.8	106	296
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	5.83	8.44	1	32.4	28	101	122	<1	18.6	.5	4.0	107	295
JUN													
16...	5.04	7.98	1	30.7	28	75	87	2	17.0	.4	3.7	95.7	262
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	4.64	7.38	.9	25.6	26	99	120	<1	15.8	.4	5.4	84.4	255
AUG													
11...	4.83	7.44	1	26.8	28	82	98	<1	15.1	.4	5.8	87.5	244
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	2.47	4.82	.5	10.6	19	69	84	<1	6.46	.3	5.7	34.4	141

323731097013901 -- JOE POOL LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC, 0.7u MF col/100 mL (31625)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)
JAN											
22...	<.04	--	.11	<.008	--	<.006	.007	40	56	<6	E.4n
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	E.03n	--	.14	<.008	--	<.006	.012	--	--	<6	2.0
JUN											
16...	<.04	--	.12	E.007n	--	<.006	.009	<1k	<1k	<6	E.7n
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.09	.22	.30	.080	.049	.016	.031	--	--	7	6.9
AUG											
11...	<.04	--	<.06	<.008	--	<.006	.008	E1k	E2k	<6	3.5
11...	--	--	--	--	--	--	--	--	--	--	--
11...	<.04	--	<.06	<.008	--	<.006	.006	--	--	11	19.2
11...	.19	--	<.06	.018	.110	.036	.050	--	--	165	267
11...	.22	.04	.13	.091	.175	.057	.073	--	--	103	198

TRINITY RIVER BASIN

08049800 Joe Pool Lake near Duncanville, TX—Continued

323646097005101 -- JOE POOL LK SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JAN													
22...	1414	1.00	.94	764	11.1	102	8.2	490	--	11.5	<.04	--	.11
22...	1419	10.0	--	764	11.0	97	8.2	491	--	10.0	--	--	--
22...	1425	20.0	--	764	10.7	95	8.1	492	--	10.0	--	--	--
22...	1430	30.0	--	764	10.8	96	8.1	492	--	10.0	--	--	--
22...	1435	40.0	--	764	10.4	92	8.1	493	--	10.0	--	--	--
22...	1440	47.0	--	764	10.2	90	8.0	493	--	10.0	<.04	--	.12
JUN													
16...	1323	1.00	1.13	764	8.4	107	8.4	490	--	28.0	<.04	--	.25
16...	1327	10.0	--	764	8.4	104	8.4	490	--	26.5	--	--	--
16...	1331	20.0	--	764	7.8	96	8.3	492	--	26.0	--	--	--
16...	1335	30.0	--	764	6.9	85	8.0	495	--	26.0	--	--	--
16...	1338	40.0	--	764	4.4	53	7.7	500	--	25.0	--	--	--
16...	1341	48.0	--	764	3.8	46	7.7	500	--	25.0	<.04	.36	.41
AUG													
11...	1044	1.00	--	767	7.4	96	8.4	405	30.0	29.0	<.04	--	<.06
11...	1048	10.0	--	767	6.5	83	8.2	407	30.0	28.5	<.04	--	<.06
11...	1052	20.0	--	767	E.2	--	7.6	383	30.0	28.5	--	--	--
11...	1056	30.0	--	767	E.2	--	7.6	326	30.0	25.5	--	--	--
11...	1100	44.0	--	767	E.4	--	7.8	264	30.0	24.5	.24	--	E.05n

323646097005101 -- JOE POOL LK SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
JAN						
22...	<.008	--	<.006	.004	<6	<.8
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	<.008	--	<.006	.005	E4n	6.6
JUN						
16...	<.008	--	<.006	.005	<6	1.0
16...	--	--	--	--	--	--
16...	--	--	--	--	--	--
16...	--	--	--	--	--	--
16...	--	--	--	--	--	--
16...	.056	--	<.006	.009	<6	3.1
AUG						
11...	<.008	--	<.006	.006	<6	1.5
11...	<.008	--	<.006	.006	<6	4.4
11...	--	--	--	--	--	--
11...	--	--	--	--	--	--
11...	.048	.120	.039	.051	93	171

08049800 Joe Pool Lake near Duncanville, TX—Continued

323645097002001 -- JOE POOL LK SITE CR
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
JAN									
22...	1453	1.00	767	11.3	102	8.2	490	--	11.0
22...	1456	10.0	767	11.0	98	8.2	491	--	10.5
22...	1459	20.0	767	10.9	96	8.1	491	--	10.0
22...	1502	30.0	767	10.7	94	8.1	491	--	10.0
22...	1506	37.0	767	10.7	94	8.1	492	--	10.0
JUN									
16...	1353	1.00	765	8.9	113	8.5	491	--	27.5
16...	1355	10.0	765	9.0	113	8.5	490	--	27.0
16...	1357	20.0	765	8.2	102	8.4	490	--	26.5
16...	1400	30.0	765	6.8	84	8.1	499	--	26.0
16...	1403	37.0	765	5.9	73	8.1	501	--	26.0
AUG									
11...	1108	1.00	762	8.1	106	8.5	405	31.0	29.5
11...	1110	10.0	762	7.9	104	8.4	405	31.0	29.5
11...	1112	20.0	762	E.4	--	7.6	397	31.0	27.0
11...	1115	34.0	762	E.3	--	7.7	289	31.0	25.0

323503097012201 -- JOE POOL LK SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia water, ftrd, mg/L as N (00608)	Nitrate water, ftrd, mg/L as N (00618)	Nitrite + nitrate water ftrd, mg/L as N (00631)	Nitrite water, ftrd, mg/L as N (00613)
JAN													
22...	1526	1.00	--	766	11.2	101	8.2	492	11.0	<.04	--	.15	E.007n
22...	1530	10.0	--	766	11.0	97	8.1	494	10.0	--	--	--	--
22...	1534	20.0	--	766	10.8	94	8.1	496	9.5	--	--	--	--
22...	1539	30.0	--	766	9.7	85	8.0	501	9.5	E.03n	.18	.19	.009
JUN													
16...	1419	1.00	.18	765	9.0	116	8.4	422	28.5	<.04	--	.35	<.008
16...	1426	10.0	--	765	7.8	96	8.2	478	26.0	--	--	--	--
16...	1432	20.0	--	765	7.1	87	8.0	476	26.0	--	--	--	--
16...	1439	33.0	--	765	5.0	61	7.8	488	25.5	E.03n	.37	.38	.010
AUG													
11...	1130	1.00	--	762	5.8	77	8.1	408	29.5	<.04	--	<.06	<.008
11...	1134	10.0	--	762	4.4	57	7.8	409	28.5	<.04	--	<.06	<.008
11...	1138	20.0	--	762	E.2	--	7.5	378	26.5	--	--	--	--
11...	1143	30.0	--	762	E.4	--	7.6	352	26.0	.14	--	<.06	<.008

323503097012201 -- JOE POOL LK SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ortho- phos- phate, water, ftrd, mg/L (00660)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Iron, water, ftrd, ug/L (01046)	Mangan- ese, water, ftrd, ug/L (01056)
JAN					
22...	--	<.006	.004	<6	1.0
22...	--	--	--	--	--
22...	--	--	--	--	--
22...	--	<.006	.006	<6	8.3
JUN					
16...	.046	.015	.026	E4n	1.3
16...	--	--	--	--	--
16...	--	--	--	--	--
16...	--	E.004n	.015	<6	5.4
AUG					
11...	--	<.006	.008	<6	2.0
11...	--	<.006	.007	E4n	8.1
11...	--	--	--	--	--
11...	.018	.006	.012	399	296

TRINITY RIVER BASIN

08049800 Joe Pool Lake near Duncanville, TX—Continued

323329097024101 -- JOE POOL LK SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
JAN													
22...	1600	1.00	.18	765	9.9	90	7.8	559	11.0	75	180	62.1	5.21
22...	1605	10.0	--	765	9.0	79	7.7	696	9.5	98	210	74.4	6.12
JUN													
16...	1459	1.00	.18	765	5.3	66	7.8	493	27.0	61	170	59.7	4.25
16...	1506	11.0	--	765	2.9	35	7.6	428	25.5	37	150	52.0	3.71
AUG													
11...	1200	1.00	.43	763	7.0	94	8.0	507	31.0	68	180	64.2	4.65
11...	1206	9.00	--	763	1.5	20	7.5	558	29.5	81	190	68.9	5.12

323329097024101 -- JOE POOL LK SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)
JAN													
22...	15.4	1	40.1	31	102	123	<1	23.1	.5	10.0	135	361	.11
22...	19.3	2	51.5	32	113	138	<1	26.9	.5	10.3	171	439	.19
JUN													
16...	14.6r	1	32.1	27	106	129	<1	13.0	.4	12.3	84.9	286	<.04
16...	8.83	1	27.1	27	108	132	<1	12.5	.4	12.1	73.1	256	.07
AUG													
11...	17.4	.9	27.5	23	113	136	<1	11.7	.4	10.9	113	317	<.04
11...	21.9	1	31.6	24	112	136	<1	12.7	.4	11.2	137	356	E.02n

323329097024101 -- JOE POOL LK SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
JAN										
22...	1.77	1.99	.226	.147	.048	.066	440	440	16	7.5
22...	2.16	2.47	.311	.141	.046	.067	--	--	16	18.1
JUN										
16...	.18	.23	.048	.049	.016	.030	57	E84k	9	6.9
16...	.26	.38	.118	.052	.017	.041	--	--	9	72.2
AUG										
11...	--	<.06	<.008	--	E.004n	.018	56	80	7	23.3
11...	--	<.06	<.008	--	E.005n	.019	--	--	12	161

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

r -- Value verified by rerun, same method

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08049850 Mountain Creek above Duncanville, TX

LOCATION.--Lat 32°39'07", long 96°59'24", Dallas County, Hydrologic Unit 12030102, 0.6 mi downstream from Joe Pool Dam on Mountain Creek, 1.4 mi downstream from Walnut Creek, and 4.9 mi west of water towers in downtown Duncanville.

PERIOD OF RECORD.--

CHEMICAL DATA: Feb. 1987 to Aug. 1988, Jan. 2003 to current year.

BIOCHEMICAL DATA: Feb. 1987 to Aug. 1988, Jan. 2003 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JAN 22...	1042	4.3	761	11.9	107	8.3	495	10.6	60	160	55.5	5.64	8.50
JUN 15...	1245	16	760	8.0	98	8.0	490	25.5	67	170	58.0	5.24	8.07
AUG 09...	0945	18	773	8.4	103	7.7	349	26.3	40	120	42.1	3.35	5.98

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)
JAN 22...	1	34.0	30	103	124	<1	18.8	.4	3.9	107	295	--	<10
JUN 15...	1	32.6	29	100	121	<1	17.7	.5	4.36	100	287	310	13
AUG 09...	.7	18.4	24	79	96	<1	11.0	.3	5.93	65.8	201	226	21

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)
JAN 22...	<.04	--	.11	<.008	<.006	E.003n	4.5	<2.0	E1n	.22	E2n	45	<.06
JUN 15...	E.02n	.30	.33	.022	<.006	.011	5.3	<2.0	E1n	E.20n	<2	44	<.06
AUG 09...	<.04	.13	.15	.023	E.003n	.010	5.9	--	2	E.18n	E1n	31	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
JAN 22...	E.03n	<.8	.192	2.5	--	E.04n	.3	<.02	10.2	2.00	<3	<.2	3.1
JUN 15...	E.02n	<.8	.212	2.6	<6	E.06n	1.8	<.02	9.3	2.32	<3	<.2	1.3
AUG 09...	<.04	<.8	.192	1.4	E5n	<.08	9.2	<.02	6.3	1.98	<3	<.2	4.1

08049850 Mountain Creek above Duncanville, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Uranium natural water, fltrd, ug/L (22703)
JAN 22...	1.27
JUN 15...	1.29
AUG 09...	.77

Remark codes used in
this table:

< -- Less than
E -- Estimated
value

Value qualifier codes
used in this table:
n -- Below the LRL
and above the LT-
MDL

08050050 Mountain Creek Lake near Grand Prairie, TX

LOCATION.--Lat 32°43'55", long 96°56'35", Dallas County, Hydrologic Unit 12030102, at right end of spillway in Mountain Creek Dam on Mountain Creek, 2.5 mi upstream from Texas and Pacific Railway Co. bridge, and 3.7 mi southeast of Grand Prairie.

DRAINAGE AREA.--295 mi².

PERIOD OF RECORD.--Oct. 1960 to Sept. 2002 (contents), Oct. 2002 to current year. Water-quality records: Chemical data: Oct. 1969 to Sept. 1985.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 21, 1960, nonrecording gage at powerplant at same datum. Satellite telemeter at station.

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 5,800 ft long, including a controlled spillway with six 34 x 27 ft tainter gates. The dam was completed in Dec. 1936 and deliberate impoundment began on Mar. 24, 1937. The lake was built and is operated by Dallas Power and Light Co. to supply cooling water for their generating plant. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	467.0
Top of gates	458.0
Crest of spillway (sill of tainter gates)	431.0

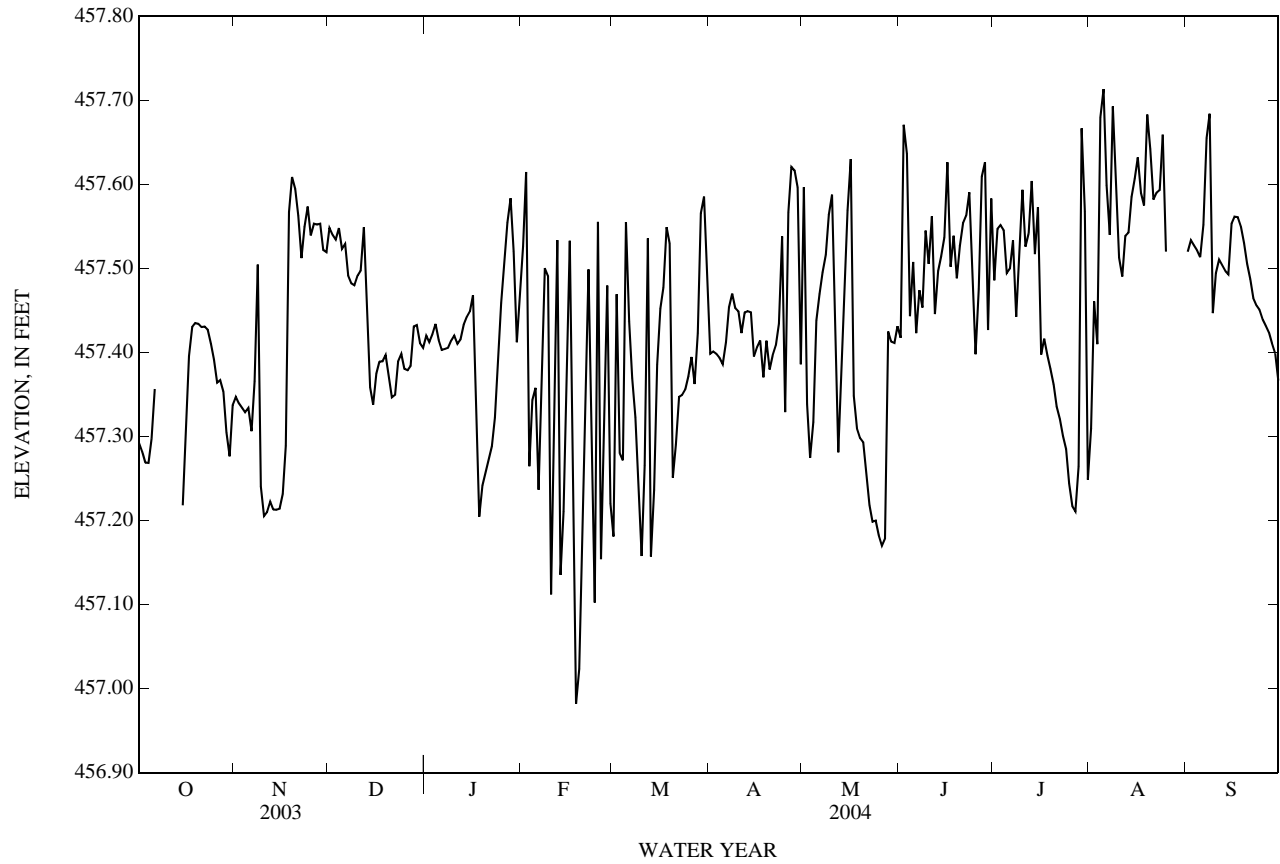
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 28,430 acre-ft, Mar. 13, 1995, elevation 458.82 ft; minimum contents, 14,120 acre-ft, Oct. 18, 1972, elevation, 453.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 457.96 ft, June 9; minimum elevation, 456.93 ft, Feb. 18.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	457.29	457.35	457.55	457.42	457.53	457.18	457.40	457.60	457.42	457.49	457.31	457.52
2	457.28	457.34	457.54	457.41	457.61	457.47	457.40	457.34	457.67	457.55	457.46	457.53
3	457.27	457.33	457.53	457.42	457.26	457.28	457.40	457.27	457.64	457.55	457.41	457.53
4	457.27	457.33	457.55	457.43	457.34	457.27	457.39	457.32	457.44	457.55	457.68	457.52
5	457.30	457.33	457.52	457.41	457.36	457.56	457.39	457.44	457.51	457.49	457.71	457.51
6	457.36	457.31	457.53	457.40	457.24	457.44	457.41	457.47	457.42	457.50	457.60	457.55
7	---	457.37	457.49	457.40	457.38	457.37	457.45	457.50	457.47	457.53	457.54	457.66
8	---	457.50	457.48	457.41	457.50	457.32	457.47	457.52	457.45	457.44	457.69	457.68
9	---	457.24	457.48	457.41	457.49	457.24	457.45	457.56	457.55	457.53	457.61	457.45
10	---	457.21	457.49	457.42	457.11	457.16	457.45	457.59	457.51	457.59	457.51	457.49
11	---	457.21	457.50	457.41	457.32	457.27	457.42	457.47	457.56	457.53	457.49	457.51
12	---	457.22	457.55	457.42	457.53	457.54	457.45	457.28	457.45	457.54	457.54	457.50
13	---	457.21	457.47	457.43	457.14	457.16	457.45	457.37	457.50	457.60	457.54	457.50
14	---	457.21	457.36	457.44	457.21	457.24	457.45	457.48	457.51	457.52	457.59	457.49
15	457.22	457.21	457.34	457.45	457.40	457.39	457.40	457.57	457.54	457.57	457.61	457.55
16	457.31	457.23	457.38	457.47	457.53	457.45	457.41	457.63	457.63	457.40	457.63	457.56
17	457.40	457.29	457.39	457.36	457.22	457.48	457.41	457.35	457.50	457.42	457.59	457.56
18	457.43	457.57	457.39	457.20	456.98	457.55	457.37	457.31	457.54	457.40	457.57	457.55
19	457.43	457.61	457.40	457.24	457.02	457.53	457.41	457.30	457.49	457.38	457.68	457.53
20	457.43	457.59	457.37	457.26	457.24	457.25	457.38	457.29	457.53	457.36	457.64	457.51
21	457.43	457.56	457.35	457.27	457.38	457.29	457.40	457.26	457.55	457.34	457.58	457.49
22	457.43	457.51	457.35	457.29	457.50	457.35	457.41	457.22	457.56	457.32	457.59	457.46
23	457.43	457.55	457.39	457.32	457.32	457.35	457.43	457.20	457.59	457.30	457.59	457.46
24	457.41	457.57	457.40	457.39	457.10	457.36	457.54	457.20	457.49	457.28	457.66	457.45
25	457.39	457.54	457.38	457.46	457.56	457.37	457.33	457.18	457.40	457.24	457.52	457.44
26	457.36	457.55	457.38	457.51	457.15	457.39	457.57	457.17	457.48	457.22	---	457.43
27	457.37	457.55	457.38	457.55	457.29	457.36	457.62	457.18	457.61	457.21	---	457.42
28	457.35	457.55	457.43	457.58	457.48	457.42	457.62	457.42	457.63	457.26	---	457.41
29	457.30	457.52	457.43	457.52	457.22	457.57	457.60	457.41	457.43	457.67	---	457.40
30	457.28	457.52	457.41	457.41	---	457.59	457.39	457.41	457.58	457.57	---	457.37
31	457.34	---	457.41	457.46	---	457.50	---	457.43	---	457.25	---	---
MEAN	---	457.40	457.44	457.41	457.32	457.38	457.44	457.38	457.52	457.44	---	457.50
MAX	---	457.61	457.55	457.58	457.61	457.59	457.62	457.63	457.67	457.67	---	457.68
MIN	---	457.21	457.34	457.20	456.98	457.16	457.33	457.17	457.40	457.21	---	457.37

08050050 Mountain Creek Lake near Grand Prairie, TX—Continued



08050100 Mountain Creek at Grand Prairie, TX

LOCATION.--Lat 32°44'51", long 96°55'32", Dallas County, Hydrologic Unit 12030102, on roadway embankment at upstream right end of downstream bridge on Jefferson Street, 1,000 ft upstream from bridge on U.S. Highway 80, 1.2 mi upstream from Texas and Pacific Railroad Company bridge, 1.5 mi downstream from Mountain Creek Lake Dam, and 4.4 mi east of Grand Prairie.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--Oct. 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 404.31 ft above NGVD of 1929. Prior to Dec. 19, 1984, at datum 3.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1960, at least 10% of contributing drainage area has been regulated. No known diversions. No flow at times

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.7	1.4	1.4	2.7	394	3.2	2,490	3.2	482	1,260	148
2	2.6	1.5	0.61	2.3	234	315	1.2	1,140	601	137	3,480	0.65
3	2.6	1.5	1.2	4.9	497	800	1.1	1,000	1,080	912	3,960	0.54
4	2.7	1.8	1.0	2.5	39	502	1.1	585	198	1,060	3,670	0.49
5	4.1	1.7	0.98	1.1	1,010	1,030	1.0	752	565	961	3,960	0.49
6	4.9	2.1	0.86	0.94	31	995	1.5	739	154	948	3,840	224
7	3.7	13	2.5	1.0	5.1	991	1.7	738	754	1,070	1,150	2.3
8	2.7	131	3.5	1.5	3.9	991	1.2	737	e783	1,100	1,640	120
9	11	442	11	1.5	513	991	1.3	737	e2,910	928	1,820	268
10	6.0	3.2	3.5	0.93	354	986	1.4	736	e3,050	1,020	1,580	0.70
11	760	2.0	0.86	0.97	50	289	1.2	741	e4.0	1,150	1,390	0.53
12	629	1.6	17	1.6	489	494	1.5	297	e1.3	745	965	0.46
13	271	1.2	691	1.2	546	507	1.4	3.3	e1.6	e200	772	0.51
14	857	1.3	4.1	0.82	16	22	1.2	3.3	e30	e14	295	0.61
15	249	1.4	6.8	0.78	15	6.8	4.4	2.4	e720	383	1.7	1.8
16	4.5	1.2	2.4	698	174	4.2	2.7	168	723	150	235	0.95
17	3.8	35	1.4	2,910	722	6.8	2.5	378	763	0.25	0.38	0.66
18	3.0	32	1.3	61	127	12	4.1	2.1	1,020	0.21	0.24	0.53
19	2.6	3.1	1.0	5.4	12	452	2.6	1.8	783	0.13	367	0.46
20	2.1	3.0	1.3	4.0	5.3	104	4.3	1.6	796	0.08	902	0.59
21	2.3	9.7	3.3	3.5	2.3	2.3	3.0	1.6	777	0.07	1.8	0.95
22	2.1	24	6.5	2.5	29	2.4	2.6	2.3	746	0.11	0.88	1.00
23	2.2	14	1.7	16	743	3.2	0.98	3.1	754	0.11	1.2	1.0
24	2.2	1.6	0.91	4.0	577	4.3	1,800	1.8	1,000	0.07	188	1.1
25	3.0	4.2	0.92	6.8	1,610	3.5	1,090	2.5	834	0.08	270	1.0
26	4.1	3.1	1.1	4.1	814	3.3	19	2.0	907	0.12	434	1.1
27	2.6	1.5	1.2	3.2	11	5.2	4.9	4.0	1,720	0.11	38	1.1
28	2.0	0.79	1.6	3.8	489	13	5.8	30	1,400	73	1,100	1.2
29	3.4	3.3	1.1	363	1,030	7.9	233	4.4	1,770	e10,700	211	1.4
30	10	4.3	1.1	6.3	---	3.1	884	6.2	2,260	e1,000	475	1.4
31	3.5	---	1.8	2.4	---	259	---	2.1	---	e783	339	---
TOTAL	2,862.1	747.79	774.94	4,117.44	10,151.3	10,200.0	4,083.88	11,312.5	27,108.1	23,817.34	34,347.20	783.52
MEAN	92.3	24.9	25.0	133	350	329	136	365	904	768	1,108	26.1
MAX	857	442	691	2,910	1,610	1,030	1,800	2,490	3,050	10,700	3,960	268
MIN	2.0	0.79	0.61	0.78	2.3	2.3	0.98	1.6	1.3	0.07	0.24	0.46
AC-FT	5,680	1,480	1,540	8,170	20,140	20,230	8,100	22,440	53,770	47,240	68,130	1,550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	74.7	64.6	104	104	176	234	211	282	168	49.2	33.8	25.2
MAX	785	1,286	1,102	1,483	976	1,104	1,170	1,941	1,028	768	1,108	214
(WY)	(1974)	(1992)	(1972)	(1992)	(2001)	(1977)	(1966)	(1969)	(1990)	(2004)	(2004)	(2001)
MIN	0.22	0.30	0.26	0.11	0.17	0.30	0.91	0.68	0.50	0.21	0.16	0.36
(WY)	(1989)	(1964)	(1976)	(1976)	(1964)	(1976)	(1987)	(1984)	(1971)	(1972)	(1972)	(1972)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

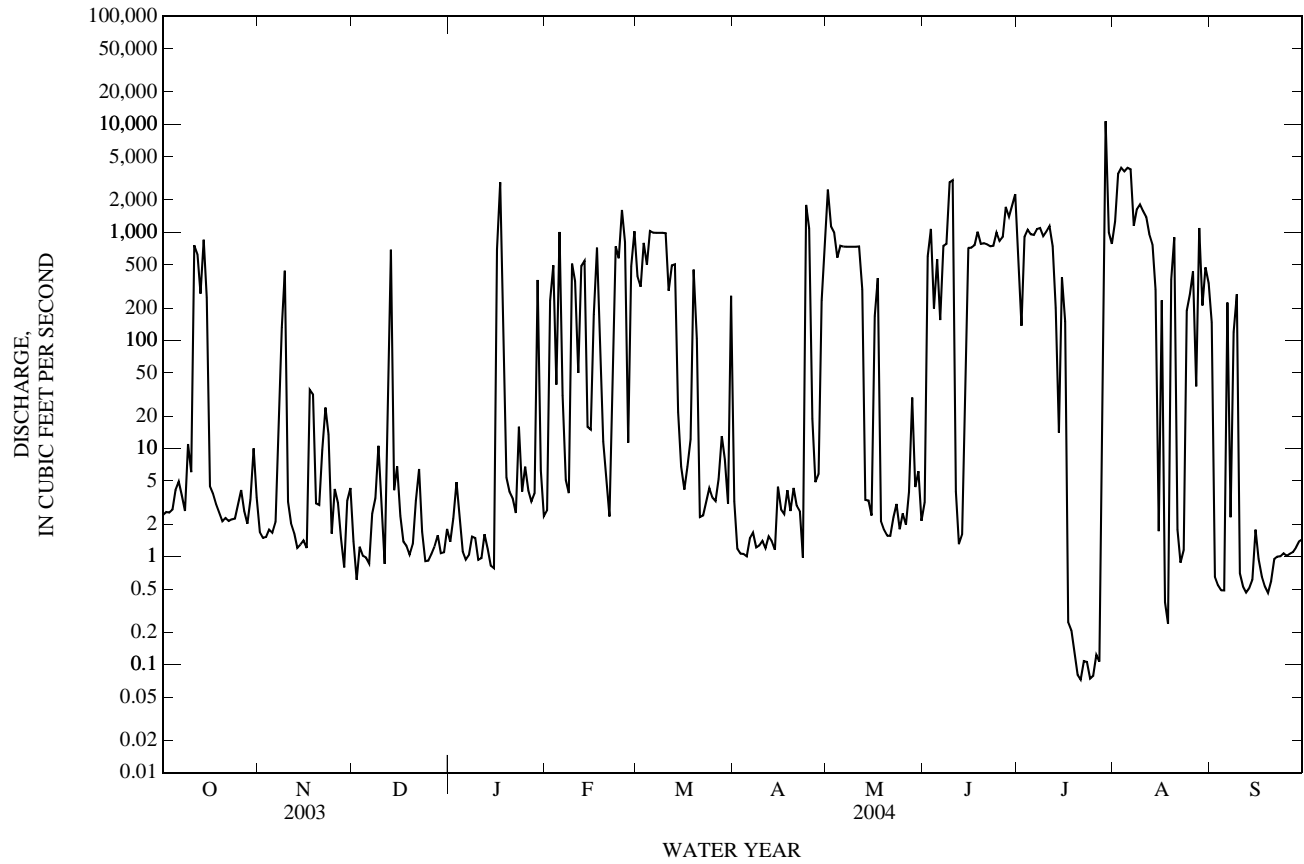
WATER YEARS 1961 - 2004

ANNUAL TOTAL	34,434.81	130,306.11	127
ANNUAL MEAN	94.3	356	506
HIGHEST ANNUAL MEAN			1992
LOWEST ANNUAL MEAN			4.39
HIGHEST DAILY MEAN	2,600	10,700	24,700
LOWEST DAILY MEAN	0.38	0.07	0.00
ANNUAL SEVEN-DAY MINIMUM	0.51	0.09	0.02
MAXIMUM PEAK FLOW		unknown	38,100
MAXIMUM PEAK STAGE		25.88	b25.88
ANNUAL RUNOFF (AC-FT)	68,300	258,500	91,900
10 PERCENT EXCEEDS	384	1,000	197
50 PERCENT EXCEEDS	3.1	4.3	1.4
90 PERCENT EXCEEDS	0.89	0.94	0.35

b Backwater affected.

e Estimated

08050100 Mountain Creek at Grand Prairie, TX—Continued



08050400 Elm Fork Trinity River at Gainesville, TX

LOCATION.--Lat 33°37'27", long 97°09'22", Cooke County, Hydrologic Unit 12030103, on downstream right bank at end of bridge on Farm Road 51, 31 ft downstream from centerline of road, 0.6 mi west of Cooke County courthouse in Gainesville, 1.0 mi upstream from Interstate Highway 35, and 1.2 mi downstream from Dozier Creek.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--Oct. 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 700.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for Oct. 1 to Feb. 2, which are fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct. 1981 reached a peak stage of 28.1 ft, from information furnished by an employee of the Gainesville Department of Public Works.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.79	0.52	0.01	0.91	41	3.2	1,040	1.3	956	66	2.2
2	0.14	0.80	0.46	0.37	0.83	7.6	3.1	294	9.8	460	53	2.1
3	0.13	0.80	0.50	0.56	0.69	4.2	2.7	209	53	316	46	2.0
4	0.13	0.97	0.48	0.51	2.8	610	2.7	179	6.1	258	41	1.8
5	0.48	6.5	0.50	0.34	4.2	443	2.7	163	3.6	228	32	1.8
6	0.47	2.9	0.49	0.22	2.8	186	3.3	142	40	217	20	1.8
7	0.61	5.2	0.52	0.32	2.0	104	4.3	100	1,830	195	13	2.6
8	0.35	1.7	0.51	0.24	1.6	58	5.5	58	977	172	10	2.2
9	0.33	0.98	0.54	0.21	1.4	41	8.8	32	5,190	159	12	2.1
10	0.20	0.57	0.49	0.19	1.3	30	5.2	20	1,300	148	12	2.0
11	0.14	0.43	0.48	0.24	2.6	20	4.5	13	810	131	8.0	1.9
12	0.11	0.30	0.80	0.33	3.7	15	4.1	11	618	126	5.9	1.8
13	0.30	0.28	0.83	0.33	2.2	14	4.1	12	514	128	5.0	1.7
14	0.27	0.35	0.69	0.35	2.7	15	4.0	8.5	427	123	4.7	3.0
15	0.20	0.20	0.69	0.37	2.4	14	3.6	7.2	354	123	5.1	2.0
16	0.10	0.23	0.67	8.5	2.2	12	3.6	5.7	303	117	3.9	1.7
17	0.01	0.41	0.62	94	1.9	10	3.3	4.6	263	93	3.6	1.6
18	0.02	0.67	0.61	14	1.8	9.2	3.3	3.8	232	76	3.4	1.6
19	0.02	0.66	0.64	3.1	1.6	7.8	3.2	3.1	247	69	15	1.5
20	0.02	0.69	0.59	2.0	1.4	6.5	3.2	2.6	182	65	4.5	1.4
21	0.04	0.73	0.56	1.6	1.3	5.2	3.4	2.2	160	57	3.4	1.4
22	0.06	0.83	0.50	1.4	1.3	4.3	3.6	1.9	832	49	3.4	1.4
23	0.03	0.90	0.38	1.3	5.6	4.1	175	1.7	356	43	3.4	1.4
24	0.17	0.91	0.34	1.3	9.4	3.9	1,680	1.5	240	38	3.1	1.4
25	0.13	0.94	0.34	1.6	317	4.1	370	1.4	208	36	2.8	1.5
26	0.21	0.76	0.32	1.2	62	4.2	208	1.4	168	26	2.5	1.4
27	0.42	0.75	0.58	1.00	12	4.3	143	1.3	130	21	2.2	1.4
28	0.53	0.65	2.3	0.94	4.6	3.8	93	1.3	98	29	3.8	1.5
29	0.53	0.56	0.25	0.94	22	3.6	65	2.1	101	239	3.1	1.5
30	0.58	0.58	0.02	0.93	---	3.8	191	2.2	1,030	140	2.8	1.4
31	0.65	---	0.00	0.91	---	3.5	---	1.6	---	87	2.6	---
TOTAL	7.48	33.04	17.22	139.31	476.23	1,693.1	3,010.4	2,327.1	16,683.8	4,925	397.2	53.1
MEAN	0.24	1.10	0.56	4.49	16.4	54.6	100	75.1	556	159	12.8	1.77
MAX	0.65	6.5	2.3	94	317	610	1,680	1,040	5,190	956	66	3.0
MIN	0.01	0.20	0.00	0.01	0.69	3.5	2.7	1.3	1.3	21	2.2	1.4
AC-FT	15	66	34	276	945	3,360	5,970	4,620	33,090	9,770	788	105

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	MEAN	51.9	74.0	124	80.1	163	179	148	248	145	23.3	3.97	27.4
MAX	310	372	743	316	828	565	1,063	1,359	659	159	13.2	123	
(WY)	(1994)	(2001)	(1992)	(1992)	(2001)	(1990)	(1990)	(1990)	(1989)	(2004)	(1996)	(1996)	
MIN	0.10	0.28	0.56	0.46	0.52	6.54	2.76	0.73	2.61	0.19	0.00	0.03	
(WY)	(2000)	(2000)	(2004)	(2000)	(2000)	(1986)	(2000)	(2000)	(1996)	(2003)	(2000)	(2000)	

SUMMARY STATISTICS

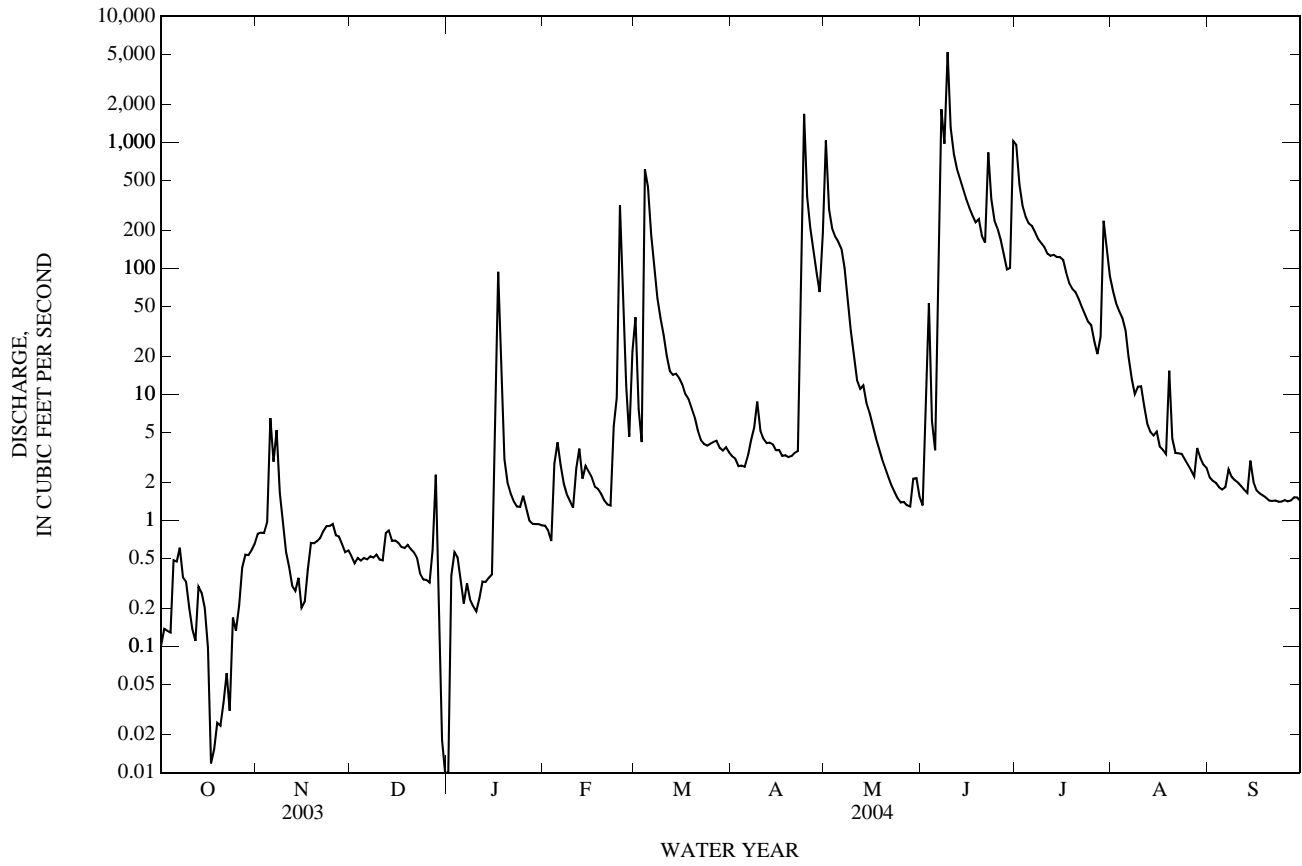
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1986 - 2004

ANNUAL TOTAL	8,725.67	29,762.98	
ANNUAL MEAN	23.9	81.3	105
HIGHEST ANNUAL MEAN			277
LOWEST ANNUAL MEAN			3.12
HIGHEST DAILY MEAN	583	Mar 1	12,500
LOWEST DAILY MEAN	0.00	Aug 26	0.00
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 23	0.00
MAXIMUM PEAK FLOW			24,000
MAXIMUM PEAK STAGE			25.33
ANNUAL RUNOFF (AC-FT)	17,310	59,030	76,280
10 PERCENT EXCEEDS	67	188	208
50 PERCENT EXCEEDS	1.6	2.8	8.3
90 PERCENT EXCEEDS	0.03	0.33	0.50

08050400 Elm Fork Trinity River at Gainesville, TX—Continued



TRINITY RIVER BASIN

08050800 Timber Creek near Collinsville, TX

LOCATION.--Lat 33°33'16", long 96°56'49", Cooke County, Hydrologic Unit 12030103, on left bank 13 ft to the left of bridge on Farm Road 902 and 19 ft downstream from the centerline of the road, 2.1 mi west of Collinsville, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--38.8 mi².

PERIOD OF RECORD.--Oct. 1985 to current year. Water-quality records: Chemical data: Apr. 1993 to Sept. 1993. Biochemical data: Apr. 1993 to Sept. 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 640.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for Feb. 4 to Sept. 30, which are fair. No known regulation or diversions. No flow many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct. 1981 reached a peak stage of 15.0 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	28	0.29	52	0.06	55	6.1	0.01
2	0.00	0.00	0.00	0.00	0.00	8.5	0.14	42	0.89	17	4.2	0.00
3	0.00	0.00	0.00	0.00	0.00	4.8	0.20	24	11	51	3.1	0.00
4	0.00	0.00	0.00	0.00	0.70	20	0.23	17	4.3	29	1.8	0.00
5	0.00	0.00	0.00	0.00	0.07	45	0.27	15	2.1	11	1.4	0.00
6	0.00	0.00	0.00	0.00	1.3	19	0.26	11	8.4	7.4	0.35	0.00
7	0.00	0.00	0.00	0.00	0.11	9.4	0.24	8.8	71	5.5	1.1	0.00
8	0.00	0.00	0.00	0.00	0.00	5.7	0.20	8.1	51	3.7	0.38	0.00
9	0.00	0.00	0.00	0.00	0.00	4.7	1.1	7.3	62	2.9	0.42	0.00
10	0.00	0.00	0.00	0.00	0.00	3.5	0.81	6.3	70	2.1	0.01	0.00
11	0.00	0.00	0.00	0.00	0.99	2.6	0.19	6.4	39	1.6	0.20	0.00
12	0.00	0.00	0.01	0.00	2.3	2.1	0.15	7.9	18	1.3	0.00	0.00
13	0.00	0.00	0.00	0.00	3.4	2.8	0.14	9.5	11	0.95	0.00	0.00
14	0.00	0.00	0.00	0.00	3.3	2.8	0.14	21	9.3	0.65	0.00	0.00
15	0.00	0.00	0.00	0.00	2.1	3.7	0.15	8.0	8.3	0.46	0.00	0.00
16	0.00	0.00	0.00	0.31	3.0	3.3	0.12	5.8	7.7	0.25	0.00	0.00
17	0.00	0.00	0.00	28	1.3	2.8	0.11	4.7	7.2	0.15	0.00	0.00
18	0.00	0.00	0.00	11	1.5	2.4	0.10	3.8	6.3	0.05	0.00	0.00
19	0.00	0.00	0.00	1.4	1.8	2.3	0.10	3.1	12	0.03	0.39	0.00
20	0.00	0.00	0.00	0.19	0.98	2.4	0.07	2.6	40	0.04	0.08	0.00
21	0.00	0.00	0.00	0.00	0.28	2.0	0.06	2.1	17	0.02	0.02	0.00
22	0.00	0.00	0.00	0.00	0.28	1.4	0.07	1.7	40	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	1.3	0.82	0.69	1.3	24	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	12	0.61	63	0.90	13	0.57	0.00	0.00
25	0.00	0.00	0.00	0.00	37	1.1	56	0.63	9.9	0.90	0.00	0.00
26	0.00	0.00	0.00	0.00	22	1.5	30	0.53	18	0.52	0.00	0.00
27	0.00	0.00	0.00	0.00	6.6	1.9	18	0.76	14	0.51	0.00	0.00
28	0.00	0.00	0.00	0.00	2.8	1.2	14	0.71	8.5	2.1	0.02	0.00
29	0.00	0.00	0.00	0.00	6.9	1.0	11	0.97	27	60	8.3	0.00
30	0.00	0.00	0.00	0.00	---	1.1	13	0.46	51	16	1.6	0.00
31	0.00	---	0.00	0.00	---	0.96	---	0.15	---	9.2	0.34	---
TOTAL	0.00	0.00	0.01	40.90	112.01	189.39	210.83	274.51	661.95	279.91	29.81	0.01
MEAN	0.00	0.00	0.00	1.32	3.86	6.11	7.03	8.86	22.1	9.03	0.96	0.00
MAX	0.00	0.00	0.01	28	37	45	63	52	71	60	8.3	0.01
MIN	0.00	0.00	0.00	0.00	0.00	0.61	0.06	0.15	0.06	0.00	0.00	0.00
AC-FT	0.00	0.00	0.02	81	222	376	418	544	1,310	555	59	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

MEAN	19.2	14.1	34.2	17.0	30.6	35.1	38.5	48.7	25.9	19.1	0.94	5.32
MAX	135	66.3	326	73.1	121	107	259	168	193	293	6.76	32.0
(WY)	(1992)	(1997)	(1992)	(1992)	(2001)	(1998)	(1990)	(1989)	(1989)	(1994)	(1996)	(1992)
MIN	0.00	0.00	0.00	0.10	0.00	0.67	0.00	0.06	0.00	0.00	0.00	0.00
(WY)	(1988)	(1990)	(1999)	(2000)	(1999)	(1999)	(1999)	(1996)	(1996)	(1988)	(1986)	(1995)

SUMMARY STATISTICS

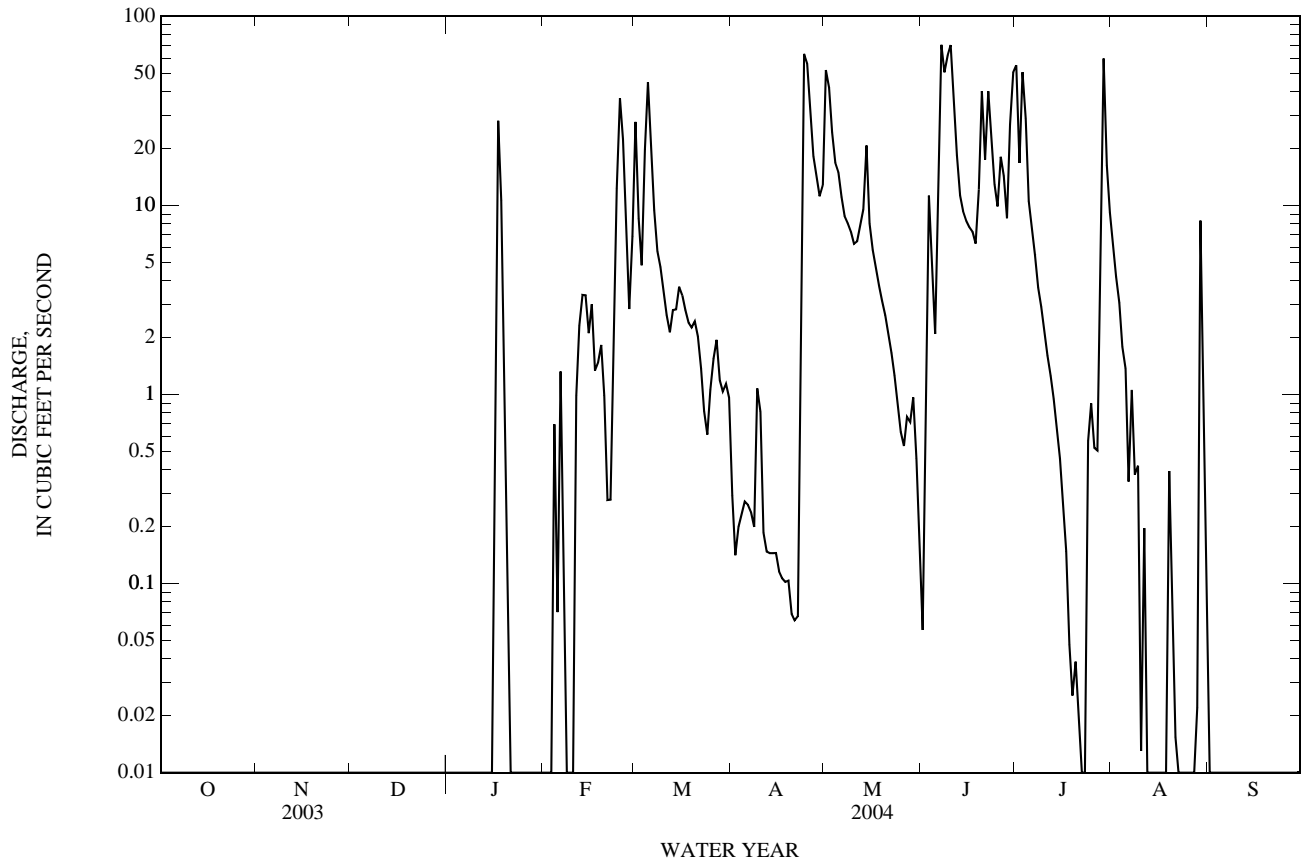
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1986 - 2004

ANNUAL TOTAL	662.43	1,799.33	
ANNUAL MEAN	1.81	4.92	24.0
HIGHEST ANNUAL MEAN			72.7
LOWEST ANNUAL MEAN			1.77
HIGHEST DAILY MEAN	37	71	5,410
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW		103	13,300
MAXIMUM PEAK STAGE		8.31	14.94
ANNUAL RUNOFF (AC-FT)	1,310	3,570	17,410
10 PERCENT EXCEEDS	4.3	14	23
50 PERCENT EXCEEDS	0.00	0.10	0.96
90 PERCENT EXCEEDS	0.00	0.00	0.00

08050800 Timber Creek near Collinsville, TX—Continued



08050840 Range Creek near Collinsville, TX

LOCATION.--Lat 33°31'34", long 96°48'25", Grayson County, Hydrologic Unit 12030103, on downstream left bank at bridge on Farm Road 902, 1.8 mi upstream from Case Creek, 2.5 mi downstream from Little Elm Creek, and 6.5 mi southeast from Post Office in Collinsville.

DRAINAGE AREA.--29.2 mi².

PERIOD OF RECORD.--Oct. 1992 to current year. Water-quality records: Chemical data: Oct. 1992 to Sept. 1995. Biochemical data: Oct. 1992 to Sept. 1995.

GAGE.--Water-stage recorder. Datum of gage is 621.08 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.01	10	0.07	0.07	0.00	65	1.7	0.00
2	0.00	0.00	0.00	0.00	0.01	4.3	0.05	0.48	0.00	17	0.33	0.00
3	0.00	0.00	0.00	0.00	0.02	2.3	0.03	0.28	0.02	51	0.12	0.00
4	0.00	0.00	0.00	0.00	0.80	51	0.01	0.09	0.00	19	0.06	0.00
5	0.00	0.00	0.00	0.00	24	91	0.00	0.05	0.00	4.0	0.03	0.00
6	0.00	0.00	0.00	0.00	8.1	11	0.00	0.03	37	1.1	0.04	0.00
7	0.00	0.00	0.00	0.00	2.5	3.7	0.01	0.02	729	0.38	0.02	0.00
8	0.00	0.00	0.00	0.00	0.94	1.4	0.00	0.01	58	0.13	0.02	0.00
9	0.00	0.00	0.00	0.00	0.57	0.76	0.00	0.00	407	0.07	0.02	0.00
10	0.00	0.00	0.00	0.00	0.40	0.46	0.00	0.00	150	0.04	0.01	0.00
11	0.00	0.00	0.00	0.00	5.1	0.30	0.00	1.1	20	0.03	0.00	0.00
12	0.00	0.00	0.00	0.00	27	0.22	0.00	0.76	6.0	0.01	0.00	0.00
13	0.00	0.00	0.00	0.00	6.9	0.18	0.00	0.10	2.9	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	2.9	0.20	0.00	0.04	0.90	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	6.3	0.22	0.00	0.03	0.36	0.00	0.00	0.02
16	0.00	0.00	0.00	0.01	19	0.53	0.00	0.02	0.14	0.00	0.00	0.03
17	0.00	0.00	0.00	31	7.6	0.40	0.00	0.01	0.14	0.00	0.00	0.01
18	0.00	0.00	0.00	6.2	4.8	0.27	0.00	0.00	28	0.00	0.00	0.01
19	0.00	0.00	0.00	0.83	2.5	0.23	0.00	0.00	173	0.00	3.9	0.01
20	0.00	0.00	0.00	0.25	1.4	0.23	0.00	0.00	37	0.00	15	0.01
21	0.00	0.00	0.00	0.11	0.88	0.47	0.00	0.00	12	0.00	2.5	0.00
22	0.00	0.00	0.00	0.07	0.62	1.7	0.00	0.00	416	0.00	0.60	0.00
23	0.00	0.00	0.00	0.05	0.80	0.67	0.00	0.00	63	0.00	0.20	0.00
24	0.00	0.00	0.00	0.05	69	0.39	6.5	0.00	10	0.00	0.06	0.00
25	0.00	0.00	0.00	0.08	109	0.27	5.8	0.00	4.3	0.00	0.04	0.00
26	0.00	0.00	0.00	0.06	22	0.20	1.1	0.00	46	0.00	0.03	0.00
27	0.00	0.00	0.00	0.04	6.2	0.15	0.29	0.00	66	0.00	0.02	0.00
28	0.00	0.00	0.00	0.02	3.0	0.14	0.13	0.00	17	0.00	0.02	0.00
29	0.00	0.00	0.00	0.01	2.9	0.11	0.08	0.00	7.3	66	0.02	0.00
30	0.00	0.00	0.00	0.01	---	0.12	0.08	0.00	127	48	0.02	0.00
31	0.00	---	0.00	0.01	---	0.09	---	0.00	---	7.4	0.01	---
TOTAL	0.00	0.00	0.00	38.80	335.25	183.01	14.15	3.09	2,418.06	279.16	24.77	0.09
MEAN	0.00	0.00	0.00	1.25	11.6	5.90	0.47	0.10	80.6	9.01	0.80	0.00
MAX	0.00	0.00	0.00	31	109	91	6.5	1.1	729	66	15	0.03
MIN	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	77	665	363	28	6.1	4,800	554	49	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

MEAN	15.4	32.9	20.6	15.2	29.2	36.4	21.5	17.5	11.4	4.53	0.58	1.61
MAX	107	204	66.0	108	118	111	66.5	86.5	80.6	36.7	4.72	9.54
(WY)	(1994)	(1997)	(1998)	(1998)	(2001)	(2002)	(2002)	(1995)	(2004)	(1994)	(1994)	(1994)
MIN	0.00	0.00	0.00	0.00	0.00	1.25	0.01	0.00	0.00	0.00	0.00	0.00
(WY)	(1993)	(1996)	(2004)	(2000)	(1996)	(1999)	(2003)	(1996)	(1996)	(1993)	(1993)	(1997)

SUMMARY STATISTICS

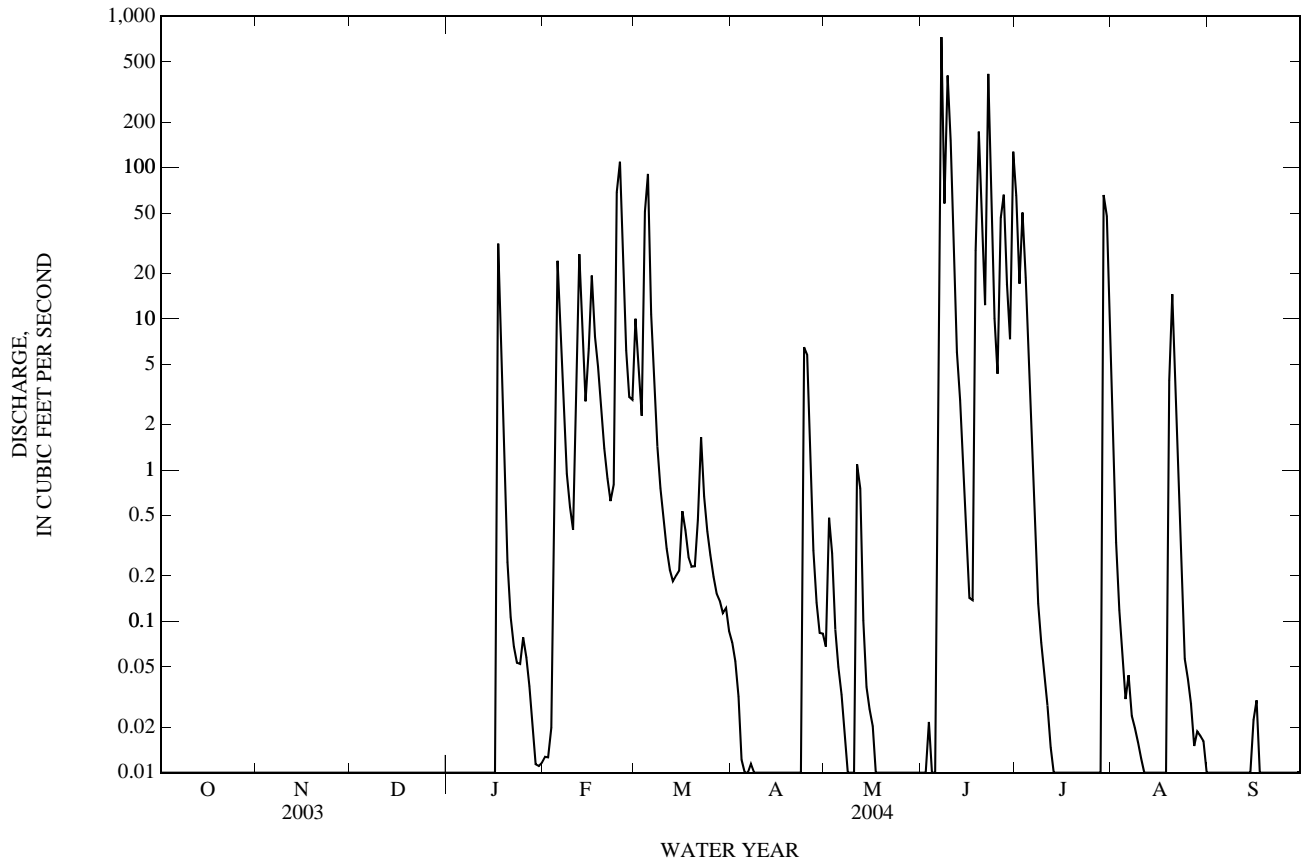
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1993 - 2004

ANNUAL TOTAL	674.26	3,296.38	
ANNUAL MEAN	1.85	9.01	
HIGHEST ANNUAL MEAN			17.2
LOWEST ANNUAL MEAN			38.3
HIGHEST DAILY MEAN	246	Mar 1	1997
LOWEST DAILY MEAN	0.00	Apr 9	1996
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 9	1996
MAXIMUM PEAK FLOW		729	Jun 7
MAXIMUM PEAK STAGE		0.00	Oct 1
ANNUAL RUNOFF (AC-FT)	1,340	0.00	Oct 1, 1992
10 PERCENT EXCEEDS	0.86	0.00	Oct 1, 1992
50 PERCENT EXCEEDS	0.00	0.00	Oct 19, 1993
90 PERCENT EXCEEDS	0.00	0.00	Oct 19, 1993

08050840 Range Creek near Collinsville, TX—Continued



08051100 Ray Roberts Lake near Pilot Point, TX

LOCATION.--Lat 33°21'19", long 97°02'59", Denton County, Hydrologic Unit 12030103, in control room of outlet works tower located 336 ft upstream from centerline of Ray Roberts Dam (and Farm Road 455 which is located on top of dam) on Elm Fork Trinity River, 3.7 mi upstream from Bray Branch, 5.7 mi southwest of Pilot Point, and at river mile 60.0.

DRAINAGE AREA.--692 mi².

PERIOD OF RECORD.--July 1987 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Water-quality records: Chemical data: Feb. 1989 to Sept. 1998.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Lake is formed by a rolled earthfill dam 15,250 ft long. There is an uncontrolled, broad-crested spillway excavated in natural ground about 5,000 ft right of right end of dam. A reinforced concrete tower houses the flood-control and low-flow gates and operating equipment. Construction started Sept. 16, 1980, and closure was made in May 1986. The dam was built and is owned by the U.S. Army Corps of Engineers. Deliberate impoundment started June 30, 1987. The lake was built for water supply, flood control, and recreation purposes. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	665.0
Spillway crest (uncontrolled)	645.5
Top of flood-control pool	640.5
Invert, lowest gated outlet	551.0

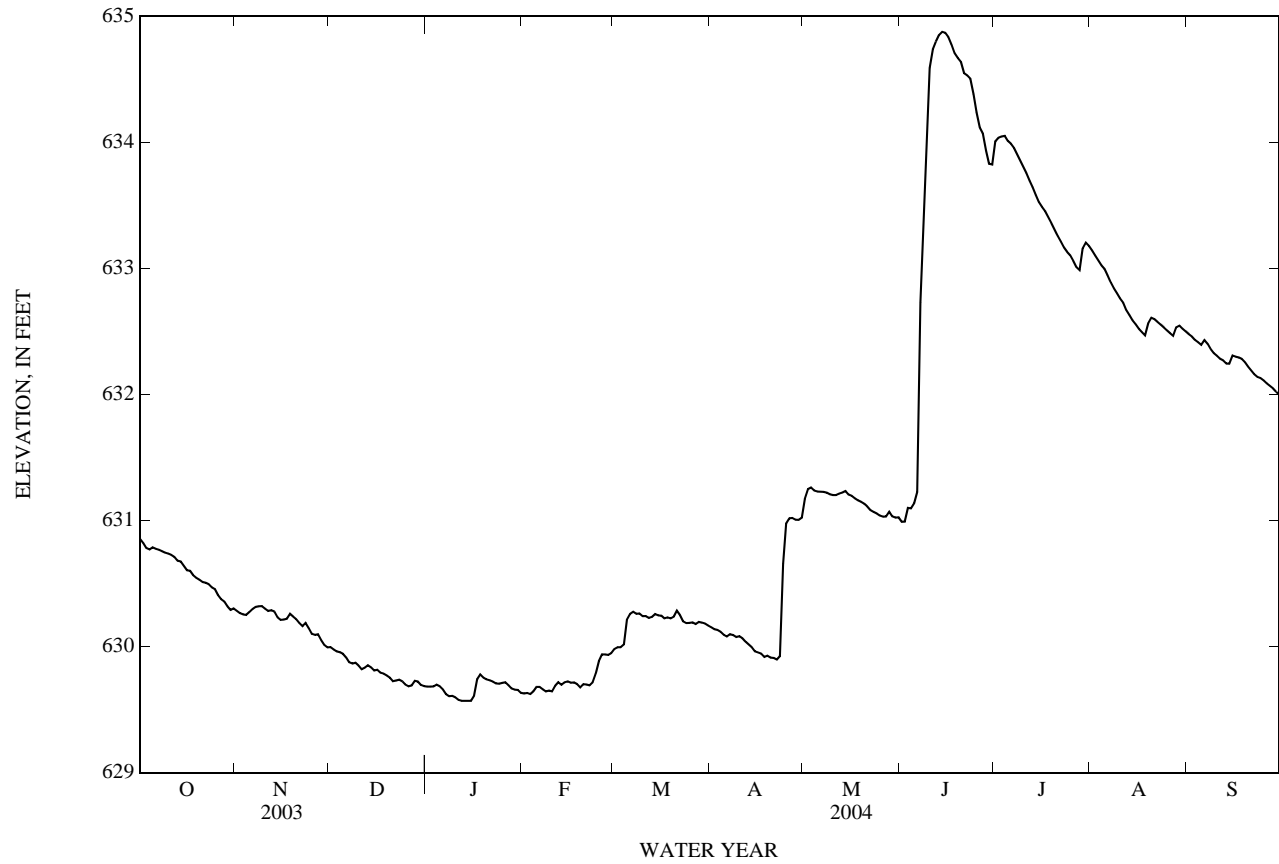
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,219,000 acre-ft, May 3, 1990, elevation, 644.48 ft; minimum contents after initial filling, 405,700 acre-ft, Oct. 13, 2001, elevation, 615.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 634.88 ft, June 13; minimum elevation, 629.56 ft, Jan. 12.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630.85	630.28	630.00	629.68	629.63	629.98	630.15	631.17	630.99	634.01	633.14	632.48
2	630.82	630.27	629.98	629.68	629.63	630.00	630.14	631.25	630.99	634.04	633.10	632.46
3	630.78	630.26	629.96	629.68	629.62	630.00	630.13	631.26	631.10	634.05	633.06	632.43
4	630.77	630.25	629.96	629.70	629.64	630.02	630.12	631.24	631.10	634.05	633.03	632.41
5	630.79	630.27	629.94	629.69	629.68	630.21	630.09	631.23	631.14	634.01	633.00	632.39
6	630.78	630.30	629.91	629.66	629.68	630.26	630.08	631.23	631.23	633.99	632.95	632.43
7	630.77	630.32	629.88	629.62	629.66	630.28	630.10	631.23	632.73	633.96	632.89	632.40
8	630.76	630.32	629.87	629.61	629.64	630.26	630.09	631.22	633.22	633.91	632.84	632.36
9	630.74	630.32	629.87	629.61	629.65	630.26	630.08	631.21	633.83	633.86	632.80	632.33
10	630.74	630.30	629.85	629.60	629.65	630.24	630.08	631.20	634.59	633.80	632.76	632.31
11	630.73	630.28	629.82	629.58	629.69	630.24	630.07	631.20	634.74	633.76	632.73	632.28
12	630.71	630.29	629.83	629.57	629.72	630.23	630.04	631.21	634.80	633.70	632.67	632.27
13	630.68	630.28	629.85	629.57	629.70	630.23	630.02	631.22	634.85	633.64	632.63	632.25
14	630.68	630.23	629.84	629.57	629.72	630.26	629.99	631.23	634.88	633.58	632.59	632.24
15	630.64	630.21	629.81	629.57	629.72	630.25	629.96	631.21	634.87	633.53	632.56	632.31
16	630.61	630.21	629.82	629.61	629.71	630.25	629.95	631.20	634.84	633.49	632.52	632.30
17	630.60	630.22	629.79	629.74	629.72	630.22	629.94	631.18	634.78	633.45	632.49	632.29
18	630.57	630.26	629.79	629.78	629.70	630.23	629.92	631.16	634.71	633.40	632.47	632.28
19	630.55	630.24	629.77	629.75	629.68	630.22	629.93	631.15	634.67	633.36	632.57	632.26
20	630.53	630.22	629.75	629.74	629.70	630.24	629.91	631.13	634.64	633.31	632.61	632.22
21	630.51	630.19	629.73	629.73	629.70	630.28	629.91	631.11	634.55	633.26	632.60	632.19
22	630.51	630.16	629.73	629.72	629.69	630.25	629.90	631.08	634.53	633.21	632.58	632.16
23	630.50	630.19	629.74	629.71	629.72	630.20	629.92	631.07	634.51	633.17	632.55	632.14
24	630.47	630.15	629.72	629.71	629.79	630.19	630.66	631.06	634.38	633.13	632.53	632.13
25	630.46	630.10	629.70	629.71	629.89	630.19	630.98	631.04	634.24	633.10	632.51	632.11
26	630.41	630.09	629.69	629.72	629.94	630.19	631.02	631.03	634.12	633.06	632.49	632.09
27	630.38	630.10	629.69	629.69	629.94	630.18	631.02	631.03	634.07	633.01	632.46	632.07
28	630.36	630.05	629.73	629.67	629.93	630.20	631.01	631.07	633.94	632.99	632.53	632.05
29	630.32	630.01	629.72	629.66	629.95	630.19	631.01	631.03	633.83	633.16	632.55	632.02
30	630.29	629.99	629.70	629.66	---	630.18	631.02	631.02	633.82	633.21	632.52	632.00
31	630.30	---	629.69	629.63	---	630.17	---	631.03	---	633.18	632.50	---
MEAN	630.60	630.21	629.81	629.67	629.73	630.20	630.24	631.15	633.69	633.53	632.68	632.26
MAX	630.85	630.32	630.00	629.78	629.95	630.28	631.02	631.26	634.88	634.05	633.14	632.48
MIN	630.29	629.99	629.69	629.57	629.62	629.98	629.90	631.02	630.99	632.99	632.46	632.00
CAL YR	2003	MEAN 631.62	MAX 633.22	MIN 629.69								
WTR YR	2004	MEAN 631.15	MAX 634.88	MIN 629.57								

08051100 Ray Roberts Lake near Pilot Point, TX—Continued



08051500 Clear Creek near Sanger, TX

LOCATION:--Lat 33°20'10", long 97°10'45", Denton County, Hydrologic Unit 12030103, near right end of bridge 6 ft downstream from downstream edge of bridge on county road, 1,350 ft downstream from Duck Creek, 1.1 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, and 1.8 mi south of Sanger.

DRAINAGE AREA.--295 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Mar. 1949 to current year. Water-quality records: Chemical data: Apr. 1959, Jan. 1966, Oct. 1984 to Sept. 1996, Oct. 1997 to Sept. 2003. Pesticide data: May 1997 to Sept. 2003. Sediment data: Feb. 1966 to May 1977, Oct. 1997 to Sept. 1999. Specific conductance: Oct. 1969 to Aug. 1977. Water temperature: May 1968 to Aug. 1977. Suspended sediment discharge: May 1968 to Aug. 1977.

REVISED RECORDS.--WSP 1512: 1950, 1955. WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 582.23 ft above NGVD of 1929. Prior to Apr. 18, 1975, water-stage recorder at datum 5.00 ft higher. Apr. 18, 1975 to June 9, 1988, at site 950 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since 1980, at least 10% of contributing drainage area has been regulated. At times flow affected by discharge from floodwater-retarding structures controlling runoff from 149 mi² in the Clear Creek watershed. There are no known diversions above station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--31 years (water years 1950-80), 74.3 ft³/s (53,830 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 36.5 ft in May 1908, from information by Gulf, Colorado, and Santa Fe Railway Company. Flood in May 1935 reached a stage of 34.0 ft, from information by Texas Department of Transportation. Both peaks referenced to present site and datum.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1949-1980: Maximum discharge, 18,200 ft³/s, Sept. 13, 1950, gage height, 29.80 ft. at site and datum then in use; no flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.17	0.00	1.7	5.5	4.4	58	8.8	268	1.4	1,390	39	3.8
2	0.14	0.00	1.8	5.5	4.6	38	8.3	154	1.9	428	26	3.4
3	0.08	0.00	1.9	5.5	4.6	29	7.9	59	8.4	227	20	3.2
4	0.06	0.00	2.1	5.6	6.6	69	7.5	37	3.9	201	15	3.1
5	1.7	0.00	2.3	5.1	7.5	537	7.4	26	4.3	125	12	2.9
6	0.26	0.40	2.3	4.4	7.4	151	7.4	20	730	88	9.9	3.2
7	1.2	2.1	2.5	4.0	6.8	74	8.3	16	2,790	111	8.3	3.0
8	1.5	1.7	2.7	4.1	5.6	45	8.1	14	914	80	7.5	5.8
9	1.2	4.5	3.1	4.2	4.9	34	8.5	12	3,790	61	7.4	3.9
10	1.0	3.4	3.5	4.5	4.6	27	7.9	11	3,490	49	8.8	2.6
11	0.82	2.6	3.9	4.5	9.7	23	6.7	10	1,560	42	8.3	2.1
12	1.2	2.5	4.4	4.7	10	20	6.4	10	1,130	37	6.6	1.9
13	0.96	2.0	4.9	5.0	8.2	19	6.2	11	899	33	5.9	1.6
14	0.79	1.7	4.7	5.1	7.8	24	5.7	11	572	30	5.5	3.6
15	0.35	2.1	5.5	5.4	8.0	26	5.6	10	339	27	5.1	5.9
16	0.14	2.4	6.2	9.1	9.1	24	5.5	10	145	25	5.0	5.6
17	0.08	4.9	5.1	15	8.5	21	5.1	9.1	72	23	5.2	5.0
18	0.05	3.2	4.6	14	7.2	20	4.7	8.1	49	21	5.0	3.3
19	0.03	2.7	3.9	9.6	6.6	18	4.5	7.0	40	19	127	2.3
20	0.01	2.7	4.0	6.2	6.5	16	4.7	5.9	49	18	48	1.8
21	0.00	3.4	4.5	5.1	6.0	14	4.8	4.7	42	17	19	1.6
22	0.00	3.7	4.5	4.6	5.6	12	4.5	3.7	116	16	13	1.4
23	0.00	2.7	4.4	4.5	6.5	10	143	3.1	169	15	9.9	1.6
24	0.00	1.9	4.2	4.6	11	10	596	2.7	67	14	7.9	1.4
25	0.00	1.8	4.2	4.9	88	11	295	2.4	123	14	6.7	1.6
26	0.00	2.0	3.9	4.8	86	12	91	2.2	285	18	5.3	1.7
27	0.00	2.0	4.6	4.2	34	12	45	2.6	232	16	4.3	1.7
28	0.00	1.6	4.9	4.2	24	12	28	2.6	101	17	5.9	1.8
29	0.00	1.6	6.1	4.1	27	11	22	1.9	127	422	6.3	1.5
30	0.00	1.7	7.3	3.9	---	10	17	2.8	323	186	6.0	1.3
31	0.00	---	5.9	4.1	---	9.3	---	1.7	---	71	4.6	---
TOTAL	11.74	61.30	125.6	176.0	426.7	1,396.3	1,381.5	739.5	18,173.9	3,841	464.4	83.6
MEAN	0.38	2.04	4.05	5.68	14.7	45.0	46.0	23.9	606	124	15.0	2.79
MAX	1.7	4.9	7.3	15	88	537	596	268	3,790	1,390	127	5.9
MIN	0.00	0.00	1.7	3.9	4.4	9.3	4.5	1.7	1.4	14	4.3	1.3
AC-FT	23	122	249	349	846	2,770	2,740	1,470	36,050	7,620	921	166

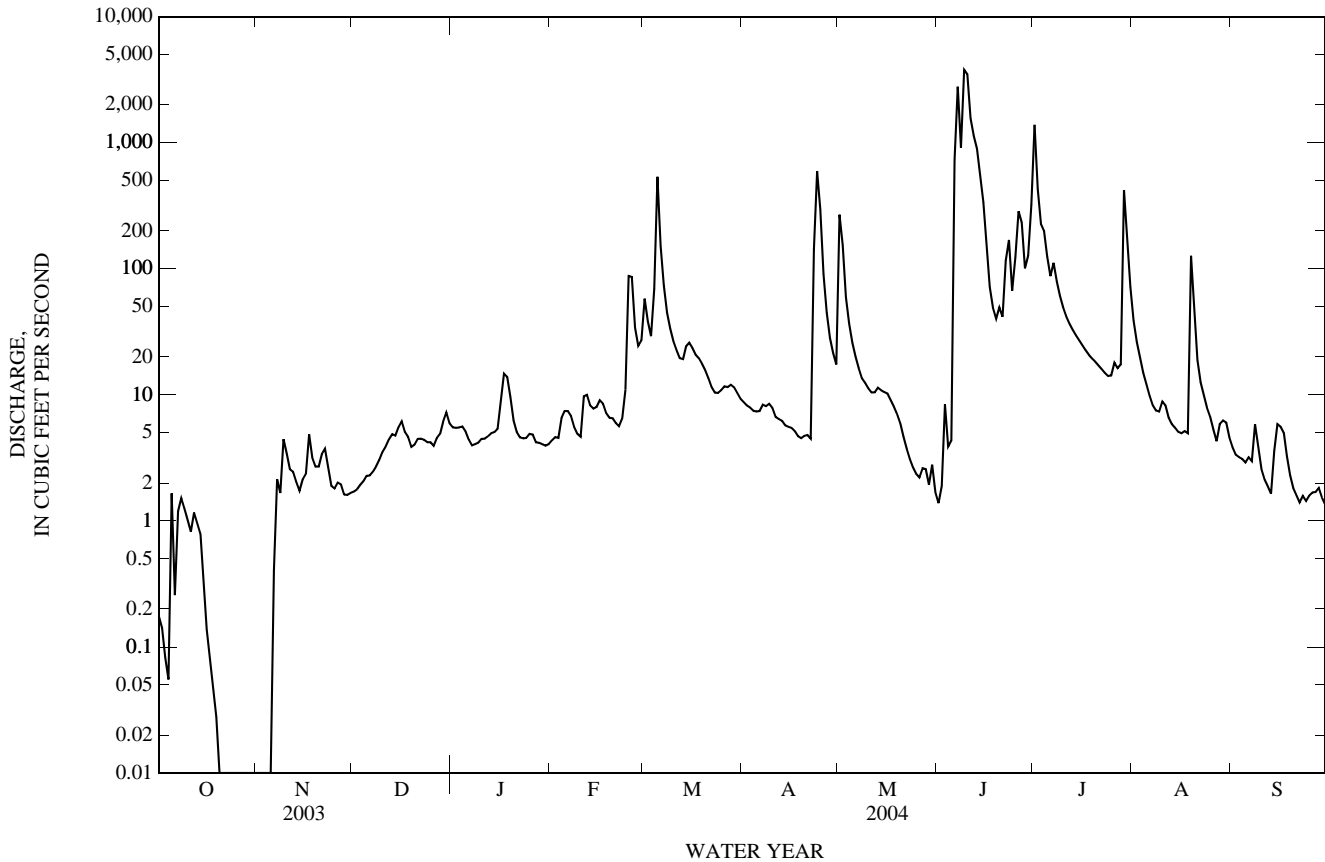
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004z, BY WATER YEAR (WY)

[illegible]

08051500 Clear Creek near Sanger, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004z	
ANNUAL TOTAL	11,556.11		26,881.54		136	
ANNUAL MEAN	31.7		73.4		476	
HIGHEST ANNUAL MEAN					2.64	
LOWEST ANNUAL MEAN					1982	
HIGHEST DAILY MEAN	675	Feb 22	3,790	Jun 9	39,700	Oct 13, 1981
LOWEST DAILY MEAN	0.00	Jul 31	0.00	Oct 21	0.00	Oct 12, 1980
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 31	0.00	Oct 21	0.00	Aug 2, 1981
MAXIMUM PEAK FLOW			8,190	Jun 7	104,000	Oct 13, 1981
MAXIMUM PEAK STAGE			22.99	Jun 7	35.70	Oct 13, 1981
ANNUAL RUNOFF (AC-FT)	22,920		53,320		98,760	
10 PERCENT EXCEEDS	61		89		235	
50 PERCENT EXCEEDS	9.2		5.9		20	
90 PERCENT EXCEEDS	0.00		1.4		0.02	

z Period of regulated streamflow.



08051500 Clear Creek near Sanger, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Apr. 1959, Jan. 1966, Oct. 1984 to Sept. 1996, Oct. 1997 to current year.

PESTICIDE DATA: May 1997 to current year.

SEDIMENT DATA: Feb. 1966 to May 1977, Oct. 1997 to Sept. 1999.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1969 to Aug. 1977.

WATER TEMPERATURE: May 1968 to Aug. 1977.

SUSPENDED SEDIMENT DISCHARGE: May 1968 to Aug. 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,920 microsiemens/cm, Oct. 12, 1976; minimum daily, 182 microsiemens/cm, July 29, 1973.

WATER TEMPERATURE: Maximum daily, 39.0°C, June 8, 1969; minimum daily, 0.0°C, Jan. 9, 1970.

SEDIMENT CONCENTRATION: Maximum daily mean, 7,370 mg/L, May 12, 1972; minimum daily mean, no flow on many days.

SEDIMENT LOADS: Maximum daily, 79,000 tons May 7, 1969; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08051500 Clear Creek near Sanger, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sampler type, code (84164)
OCT 08...	--	--	33	3070
DEC 09...	--	--	77	3045
JAN 12...	--	--	24	3045
FEB 11...	--	--	97	3045
APR 07...	--	--	43	3045
JUN 08...	--	--	301	3053
AUG 18...	--	--	35	3045
SEP 09...	26.9	772	--	--

Remark codes used in this table:

< -- Less than

Value qualifier codes used in this table:

c -- See laboratory comment

o -- Result determined by alternate method

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

08052700 Little Elm Creek near Aubrey, TX

LOCATION.--Lat 33°17'00", long 96°53'33", Denton County, Hydrologic Unit 12030103, on left bank at downstream side of bridge on Farm Road 1385, 1.5 mi upstream from Mustang Creek, 5.5 mi east of Aubrey, and 18.0 mi upstream from Lewisville Dam on the Elm Fork Trinity River.

DRAINAGE AREA.--75.5 mi².

PERIOD OF RECORD.--June 1956 to Sept. 1976, Oct. 1979 to current year. Water-quality records: Chemical data: Feb. 1966 to Sept. 1975. Specific conductance: Dec. 1966 to Sept. 1975. Water temperature: Feb. 1966 to Sept. 1975. Sediment data: Feb. 1966 to Sept. 1975.

REVISED RECORDS.--WRD TX-70-I: 1969.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 534.76 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those daily discharges from Oct. 1 to Jan. 28, which are fair. There are several small diversions above station for irrigation. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1900, 18.2 ft in May 1941, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.24	0.29	0.63	1.2	46	0.00	7.7	1.7	194	2.9	2.7
2	0.05	0.28	0.22	0.66	1.9	9.8	0.00	8.9	1.7	102	0.98	3.1
3	0.05	0.58	0.28	0.81	2.2	4.3	0.07	7.3	12	57	0.83	4.0
4	0.17	0.89	0.34	0.70	4.4	65	0.31	5.0	13	47	0.56	5.6
5	2.1	1.9	0.28	0.64	76	237	0.48	3.8	27	25	0.67	7.4
6	2.5	2.3	0.27	0.79	15	40	0.76	4.2	12	12	0.70	25
7	2.9	2.1	0.28	0.90	3.3	11	1.3	4.0	354	9.3	1.2	15
8	2.8	2.1	0.29	1.0	1.3	4.5	1.1	3.4	132	8.0	1.2	8.8
9	2.8	1.7	0.32	1.0	0.66	2.4	0.66	8.6	550	7.2	1.6	8.0
10	3.0	1.4	0.34	1.1	0.29	2.1	0.64	5.1	423	6.1	1.8	8.9
11	3.2	1.2	0.38	1.1	54	1.4	1.2	3.7	146	5.5	1.8	9.5
12	2.9	1.4	0.55	1.2	134	0.69	1.3	10	70	4.6	1.8	9.7
13	2.8	1.1	0.88	1.3	19	0.42	1.4	12	30	4.2	1.9	9.8
14	3.0	1.00	0.45	1.3	5.7	8.0	1.4	16	13	4.0	1.6	14
15	3.0	1.0	0.40	1.4	18	1.8	1.5	12	8.4	2.7	1.5	105
16	3.0	0.98	0.35	3.1	16	0.15	1.5	5.7	7.0	2.0	1.4	18
17	3.1	1.0	0.26	284	4.4	0.00	1.6	3.1	6.0	0.70	1.8	10
18	3.2	1.3	0.24	35	1.0	0.00	1.6	2.8	5.3	0.33	1.9	8.1
19	2.6	1.3	0.23	8.7	0.09	0.00	1.9	2.5	4.6	0.13	527	7.7
20	2.4	0.95	0.25	5.6	0.00	0.00	2.3	1.9	6.3	0.20	290	9.2
21	1.9	0.83	0.25	3.8	0.00	0.00	2.5	2.3	16	0.23	85	8.5
22	1.1	0.85	0.31	2.6	0.00	0.00	2.3	1.9	27	0.29	60	8.0
23	0.47	0.90	0.31	1.7	0.40	0.00	1.7	1.8	46	0.17	43	7.7
24	0.27	0.83	0.36	1.1	40	0.00	84	1.5	41	0.26	29	7.9
25	0.10	0.77	0.41	0.89	302	0.00	52	1.9	41	0.34	16	8.7
26	0.06	0.70	0.46	0.82	113	0.00	17	2.3	81	0.54	12	8.9
27	0.19	0.62	0.62	1.2	26	0.00	8.4	2.4	81	0.78	10	8.4
28	0.56	0.51	0.62	1.3	8.2	0.00	7.4	3.5	55	1.3	39	9.7
29	0.50	0.44	0.60	0.83	28	0.00	8.2	4.7	59	106	17	12
30	0.31	0.38	0.61	0.67	---	0.00	7.7	3.3	259	34	6.8	14
31	0.19	---	0.62	0.67	---	0.00	---	2.0	---	14	3.8	---
TOTAL	51.29	31.55	12.07	366.51	876.04	434.56	212.22	155.3	2,529.0	649.87	1,164.74	383.3
MEAN	1.65	1.05	0.39	11.8	30.2	14.0	7.07	5.01	84.3	21.0	37.6	12.8
MAX	3.2	2.3	0.88	284	302	237	84	16	550	194	527	105
MIN	0.05	0.24	0.22	0.63	0.00	0.00	0.00	1.5	1.7	0.13	0.56	2.7
AC-FT	102	63	24	727	1,740	862	421	308	5,020	1,290	2,310	760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004h, BY WATER YEAR (WY)

MEAN	54.9	59.2	51.5	26.1	65.7	59.7	66.4	111	46.9	17.5	2.86	27.8
MAX	641	530	398	208	400	362	677	897	286	540	37.6	258
(WY)	(1982)	(1997)	(1992)	(1998)	(2001)	(2002)	(1957)	(1982)	(1989)	(1994)	(2004)	(1964)
MIN	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.00	0.00	0.00	0.00	0.00
(WY)	(1957)	(1959)	(1959)	(1959)	(1959)	(1963)	(1959)	(1959)	(1956)	(1956)	(1956)	(1956)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

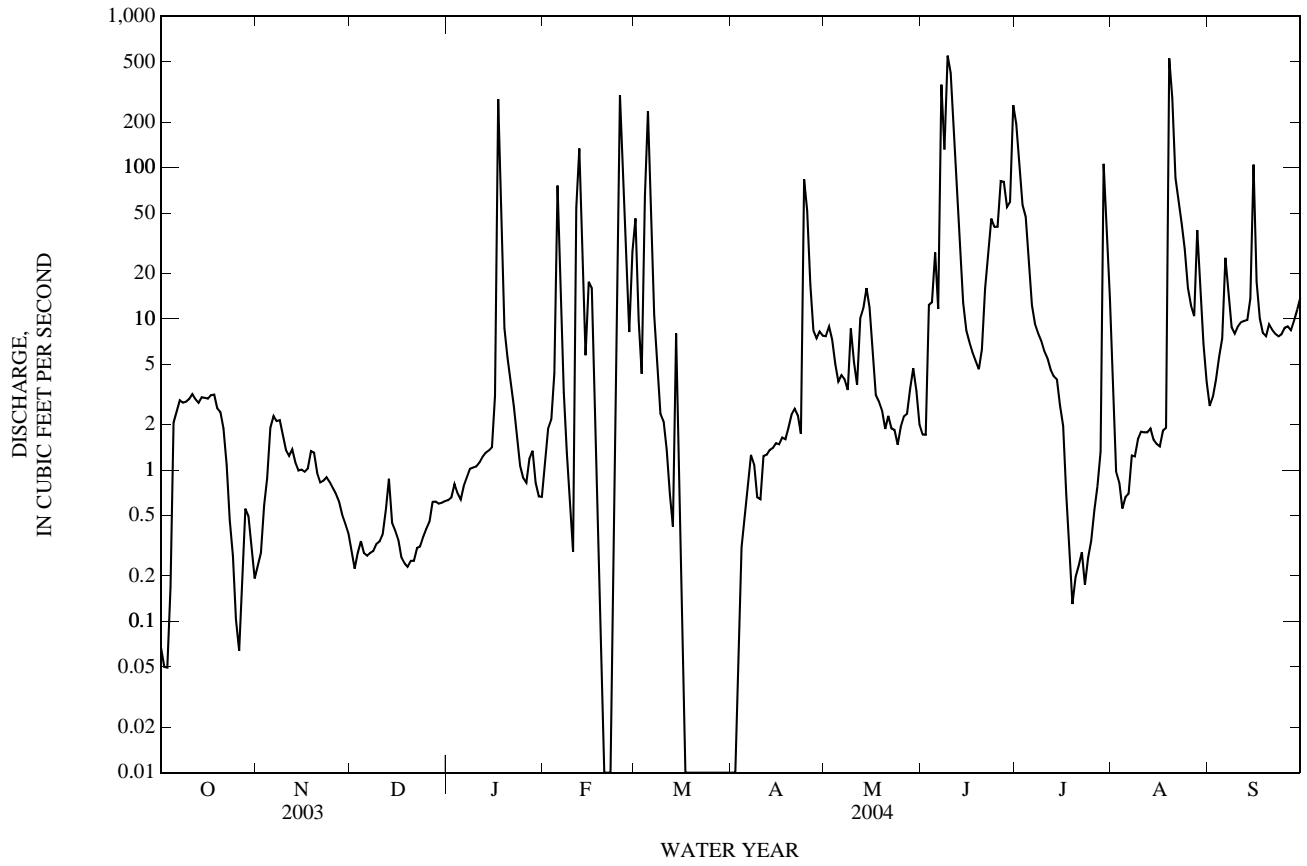
FOR 2004 WATER YEAR

WATER YEARS 1956 - 2004h

ANNUAL TOTAL	3,544.82	6,866.45	
ANNUAL MEAN	9.71	18.8	49.2
HIGHEST ANNUAL MEAN			178
LOWEST ANNUAL MEAN			2.24
HIGHEST DAILY MEAN	398	Feb 22	550
LOWEST DAILY MEAN	0.00	Jan 13	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 15	0.00
MAXIMUM PEAK FLOW			1,010
MAXIMUM PEAK STAGE			14.31
ANNUAL RUNOFF (AC-FT)	7,030		13,620
10 PERCENT EXCEEDS	8.5		40
50 PERCENT EXCEEDS	0.83		1.9
90 PERCENT EXCEEDS	0.00		0.23

h See Period of Record paragraph.

08052700 Little Elm Creek near Aubrey, TX—Continued



08052800 Lewisville Lake near Lewisville, TX

LOCATION.--Lat 33°04'09", long 96°57'51", Denton County, Hydrologic Unit 12030103, in intake structure of Lewisville Dam on Elm Fork Trinity River, 2.0 mi upstream from bridge on State Highway 121, 2.4 mi northeast of Lewisville, 12.0 mi upstream from Denton Creek, and 30.0 mi upstream from mouth.

DRAINAGE AREA.--1,660 mi².

PERIOD OF RECORD.--Nov. 1954 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Garza-Little Elm Reservoir near Lewisville".

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 17, 1955, nonrecording gage at site 4,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 32,888 ft long, including a 560 ft uncontrolled off-channel concrete-gravity spillway with ogee weir section. Deliberate impoundment began Nov. 1, 1954, and the dam was completed in Aug. 1955. The controlled low-flow outlet works consist of a 16.0 ft diameter conduit that is controlled by three 6.5 by 13.0 ft broome-type gates and two 60 in steel pipes with service valves. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and water conservation. The city of Dallas obtains most of its municipal water supply from this lake. Inflow is affected at times by discharge from the flood-detention pools of 118 floodwater-retarding structures with a combined detention capacity of 81,670 acre-ft. These structures control runoff from 298 mi² in the Elm Fork Trinity River, Clear, Little Elm, and Hickory Creek watersheds. An unknown amount of water was diverted for municipal and industrial uses. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	560.0
Crest of spillway	532.0
Lowest intakes to wet wells (invert)	481.0
Invert of three broome-type gates	448.0

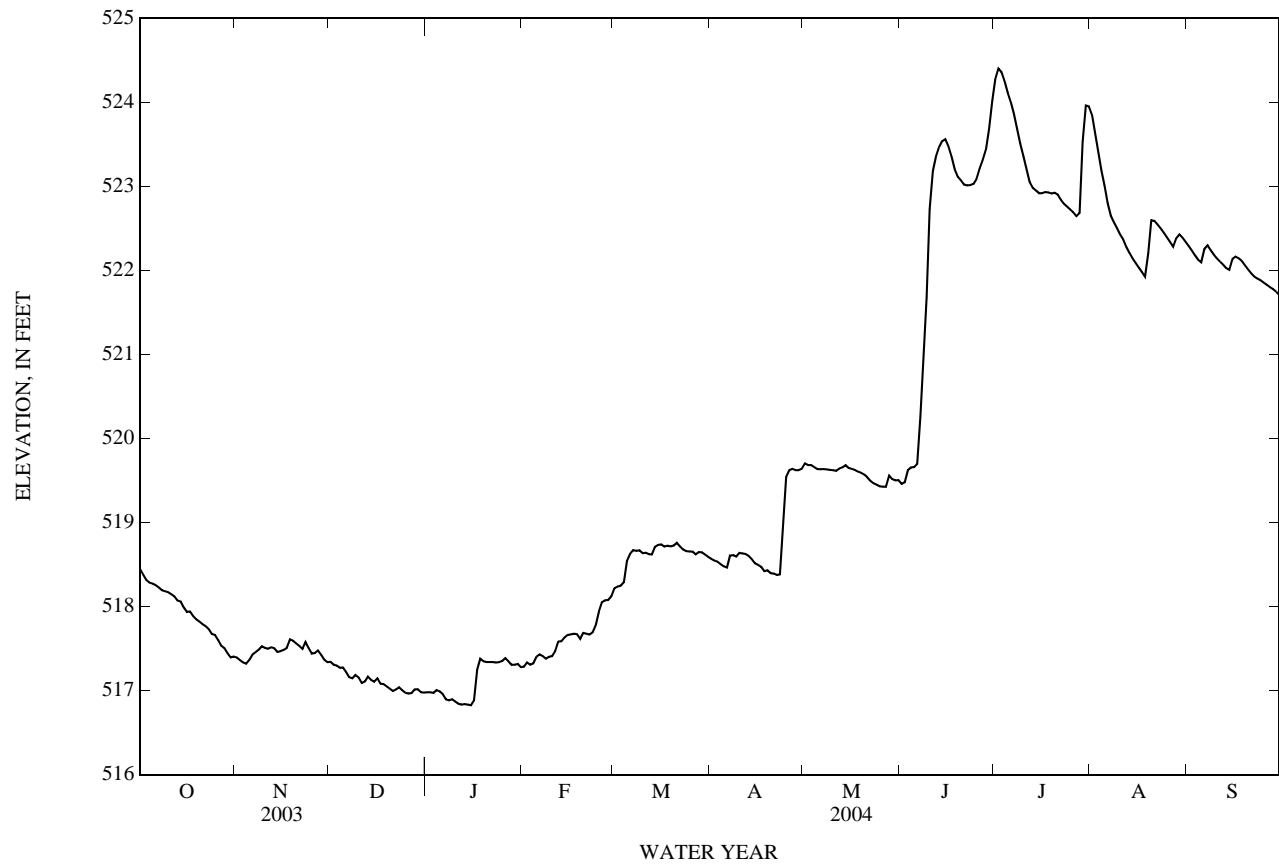
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,181,000 acre-ft, May 4, 1990, elevation, 536.73 ft; minimum since initial filling in 1957, 184,700 acre-ft, Sept. 28, 1980, elevation, 498.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 524.43 ft, July 2, 3; minimum elevation, 516.82 ft, Jan. 12, 14, 15.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	518.45	517.39	517.34	516.98	517.28	518.22	518.57	519.70	519.46	524.27	523.85	522.29
2	518.38	517.36	517.31	516.98	517.34	518.24	518.55	519.68	519.48	524.40	523.65	522.24
3	518.32	517.33	517.30	516.97	517.31	518.25	518.53	519.68	519.62	524.36	523.42	522.18
4	518.29	517.32	517.27	517.01	517.32	518.29	518.50	519.66	519.66	524.25	523.19	522.13
5	518.27	517.37	517.28	516.99	517.40	518.54	518.48	519.64	519.66	524.12	523.01	522.10
6	518.25	517.43	517.22	516.96	517.43	518.63	518.46	519.63	519.70	524.00	522.80	522.26
7	518.23	517.46	517.16	516.89	517.41	518.67	518.61	519.64	520.26	523.86	522.65	522.30
8	518.19	517.49	517.15	516.88	517.38	518.66	518.61	519.63	521.00	523.69	522.58	522.24
9	518.18	517.53	517.19	516.90	517.40	518.67	518.59	519.63	521.68	523.51	522.50	522.19
10	518.17	517.51	517.16	516.87	517.41	518.63	518.64	519.62	522.74	523.36	522.43	522.15
11	518.15	517.50	517.09	516.84	517.47	518.64	518.63	519.62	523.18	523.21	522.37	522.11
12	518.12	517.52	517.11	516.83	517.58	518.62	518.63	519.64	523.35	523.05	522.28	522.07
13	518.07	517.50	517.17	516.84	517.59	518.62	518.60	519.66	523.47	522.98	522.21	522.03
14	518.06	517.46	517.13	516.83	517.63	518.71	518.56	519.68	523.54	522.95	522.14	522.01
15	517.99	517.47	517.11	516.83	517.66	518.73	518.51	519.65	523.56	522.92	522.09	522.14
16	517.94	517.49	517.15	516.88	517.67	518.74	518.50	519.64	523.48	522.92	522.03	522.16
17	517.94	517.51	517.08	517.25	517.68	518.71	518.47	519.63	523.36	522.93	521.98	522.14
18	517.89	517.61	517.08	517.38	517.67	518.73	518.42	519.61	523.21	522.93	521.92	522.11
19	517.85	517.59	517.05	517.35	517.61	518.72	518.43	519.59	523.12	522.92	522.20	522.06
20	517.82	517.56	517.02	517.34	517.69	518.73	518.40	519.57	523.07	522.92	522.60	522.01
21	517.79	517.53	517.00	517.34	517.68	518.76	518.39	519.54	523.02	522.90	522.59	521.96
22	517.77	517.50	517.01	517.34	517.67	518.72	518.38	519.50	523.01	522.84	522.55	521.93
23	517.73	517.58	517.04	517.33	517.69	518.68	518.38	519.47	523.02	522.79	522.50	521.90
24	517.67	517.50	517.00	517.34	517.78	518.66	519.04	519.45	523.03	522.76	522.45	521.88
25	517.66	517.44	516.97	517.35	517.94	518.66	519.54	519.43	523.09	522.73	522.39	521.86
26	517.60	517.45	516.96	517.39	518.05	518.65	519.62	519.43	523.21	522.69	522.34	521.83
27	517.53	517.48	516.97	517.35	518.08	518.62	519.64	519.43	523.32	522.65	522.28	521.80
28	517.51	517.43	517.01	517.31	518.08	518.65	519.62	519.56	523.44	522.68	522.38	521.78
29	517.45	517.37	517.02	517.31	518.12	518.65	519.62	519.52	523.68	523.53	522.43	521.75
30	517.40	517.34	516.98	517.32	---	518.62	519.64	519.50	524.02	523.96	522.39	521.71
31	517.41	---	516.98	517.28	---	518.59	---	519.51	---	523.95	522.34	---
MEAN	517.94	517.47	517.11	517.11	517.62	518.61	518.75	519.59	522.31	523.32	522.53	522.04
MAX	518.45	517.61	517.34	517.39	518.12	518.76	519.64	519.70	524.02	524.40	523.85	522.30
MIN	517.40	517.32	516.96	516.83	517.28	518.22	518.38	519.43	519.46	522.65	521.92	521.71
CAL YR	2003	MEAN 520.15	MAX 522.40	MIN 516.96								
WTR YR	2004	MEAN 519.54	MAX 524.40	MIN 516.83								

08052800 Lewisville Lake near Lewisville, TX—Continued



08053000 Elm Fork Trinity River near Lewisville, TX

LOCATION.--Lat 33°02'44", long 96°57'39", Denton County, Hydrologic Unit 12030103, on left bank at downstream edge of highway right-of-way, 90 ft to left of left end of bridge on State Highway 121, 1.8 mi east of Lewisville, 1.9 mi downstream from Lewisville Lake, 8.3 mi upstream from Denton Creek, and 28.2 mi upstream from mouth.

DRAINAGE AREA.--1,673 mi².

PERIOD OF RECORD.--Mar. 1949 to current year.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.39 ft above NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Jan. 6, 1950, nonrecording gage 0.6 mi upstream at datum 3.26 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since Nov. 1954, at least 10% of contributing drainage area has been regulated. Most of low flow is used by the city of Dallas for municipal supply (see Elm Fork Trinity River near Carrollton, station 08055500).

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1950-54) prior to regulation, 402 ft³/s (291,200 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1907, 33.8 ft in 1908, present site and datum, from information by local resident.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1949-1954: Maximum discharge, 21,700 ft³/s, Sept. 15, 1950, gage height, 30.75 ft; no flow June 14, 1954.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	341	189	159	204	190	261	239	219	95	2,350	544
2	436	321	218	194	205	181	278	209	237	880	3,360	542
3	435	299	247	291	172	181	290	207	492	2,350	3,510	539
4	435	296	236	248	193	322	289	216	206	2,650	3,470	432
5	392	316	231	202	192	272	297	192	203	2,670	3,060	284
6	363	296	246	202	157	191	314	82	214	2,730	2,730	579
7	409	368	297	202	152	187	396	81	688	3,070	1,710	399
8	400	240	253	205	149	193	293	81	224	3,110	1,200	386
9	399	243	254	221	148	212	270	81	493	3,000	1,190	382
10	368	195	255	241	168	223	266	97	324	2,750	1,180	380
11	367	183	255	225	213	223	248	132	118	2,710	1,180	379
12	374	183	275	207	185	223	229	127	118	2,340	1,010	378
13	372	180	248	208	172	229	224	123	97	1,180	743	373
14	372	e110	203	209	184	276	223	126	485	951	669	391
15	371	43	181	210	181	203	223	122	1,710	492	667	410
16	370	42	180	304	175	206	222	123	2,550	27	608	381
17	365	77	178	717	172	210	221	124	3,040	23	e520	378
18	363	73	178	184	171	208	222	162	3,370	21	e525	376
19	362	101	179	150	172	205	223	213	3,200	46	e630	375
20	361	233	179	162	179	204	226	217	2,530	205	e590	376
21	360	234	180	181	187	201	227	225	2,310	541	e570	357
22	360	239	180	181	188	217	227	226	2,160	560	e565	303
23	356	244	179	180	207	235	227	228	2,150	556	e540	274
24	355	235	178	185	202	236	625	229	2,150	556	e540	272
25	360	223	175	163	247	236	291	230	2,280	554	e545	272
26	355	224	176	154	130	235	208	231	2,010	463	e545	269
27	343	224	176	194	169	237	209	539	1,340	333	e490	268
28	321	211	176	211	184	235	218	881	1,150	543	543	247
29	292	200	161	199	246	244	232	280	284	1,360	412	226
30	292	202	160	199	---	256	220	273	198	541	462	302
31	312	---	160	199	---	269	---	252	---	1,130	550	---
TOTAL	11,454	6,376	6,383	6,787	5,304	6,940	7,899	6,548	36,550	38,437	36,664	11,074
MEAN	369	213	206	219	183	224	263	211	1,218	1,240	1,183	369
MAX	436	368	297	717	247	322	625	881	3,370	3,110	3,510	579
MIN	292	42	160	150	130	181	208	81	97	21	412	226
AC-FT	22,720	12,650	12,660	13,460	10,520	13,770	15,670	12,990	72,500	76,240	72,720	21,970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004z, BY WATER YEAR (WY)

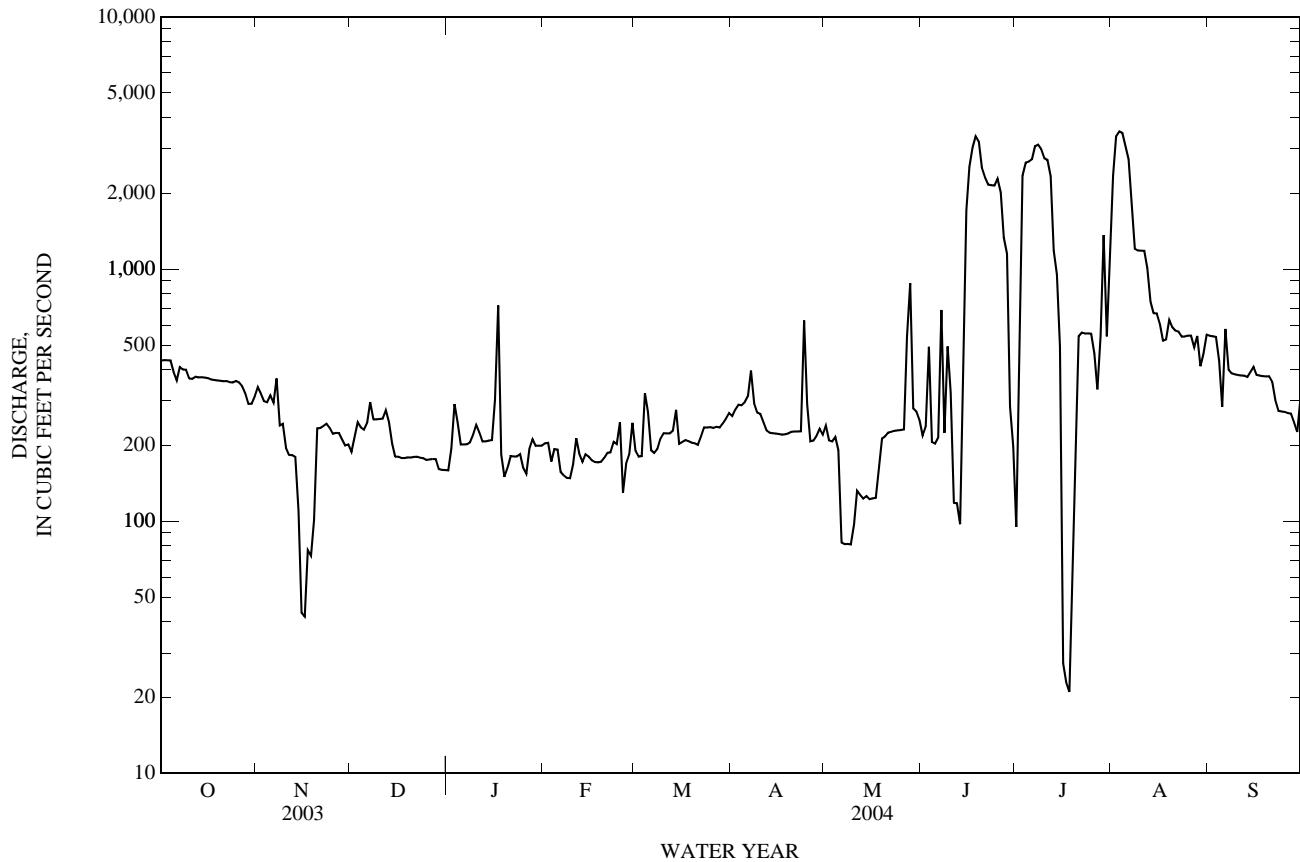
MEAN	406	609	624	500	596	886	854	1,277	1,290	808	495	341
MAX	3,628	6,300	4,681	5,267	4,611	4,218	3,939	8,391	5,222	4,479	4,101	2,480
(WY)	(1982)	(1982)	(1982)	(1992)	(1992)	(1997)	(2002)	(1990)	(1957)	(1989)	(1982)	(1962)
MIN	23.1	37.4	35.0	15.2	23.6	37.7	14.0	84.4	109	157	54.7	65.0
(WY)	(1959)	(1955)	(1955)	(1955)	(1955)	(1955)	(1989)	(1981)	(1955)	(1961)	(1963)	(1958)

08053000 Elm Fork Trinity River near Lewisville, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004z	
ANNUAL TOTAL	124,002		180,416		724	
ANNUAL MEAN	340		493		3,062	
HIGHEST ANNUAL MEAN					94.2	
LOWEST ANNUAL MEAN					19,000	
HIGHEST DAILY MEAN	1,020	Mar 6	3,510	Aug 3	19,000	May 4, 1990
LOWEST DAILY MEAN	42	Nov 16	21	Jul 18	0.00	Oct 20, 1993
ANNUAL SEVEN-DAY MINIMUM	89	Nov 13	89	Nov 13	0.29	Nov 3, 1983
MAXIMUM PEAK FLOW			3,550	Aug 4	19,600	May 4, 1990
MAXIMUM PEAK STAGE			18.33	Aug 4	30.15	May 4, 1990
ANNUAL RUNOFF (AC-FT)	246,000		357,900		524,800	
10 PERCENT EXCEEDS	549		1,160		2,950	
50 PERCENT EXCEEDS	320		244		227	
90 PERCENT EXCEEDS	176		161		83	

z Period of regulated streamflow.

e Estimated



TRINITY RIVER BASIN

238

08053500 Denton Creek near Justin, TX

LOCATION.--Lat 33°07'08", long 97°17'25", Denton County, Hydrologic Unit 12030104, on right bank at downstream side of bridge on Farm Road 156, 100 ft upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.2 mi north of Justin, 3.0 mi upstream from Olivers Creek, 12.9 mi upstream from Harriet Creek, and 32.9 mi upstream from Grapevine Dam.

DRAINAGE AREA.--400 mi².

PERIOD OF RECORD.--Oct. 1949 to current year. Water-quality records: Chemical data: Oct. 1980 to Sept. 1982, Oct. 1997 to Sept. 2003. Biochemical data: Oct. 1997 to Sept. 2003.

REVISED RECORDS.--WSP 1732: 1950(M). WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 606.66 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for Oct. 1 to Feb. 2, Aug. 27 to Sept. 30 and estimated daily discharges, which are poor. Since installation of gage, at least 10% of contributing drainage has been regulated. At times flow affected by discharge from floodwater-retarding structures controlling runoff from 197 mi² in the Denton Creek watershed. No known diversions. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1935 was the highest since 1908 and reached a stage of 20.6 ft at site about 1,500 ft upstream, from information by local resident. Flood in May 1908 reached a stage about 1.0 ft higher than flood in May 1935, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e1.7	e5.8	e4.6	59	e18	95	19	1,210	31	e9.4
2	0.00	0.00	e1.8	e5.7	e5.0	38	e17	275	19	808	30	e9.0
3	0.00	0.00	e2.0	e5.8	e5.5	27	e17	120	35	482	28	e8.4
4	0.00	0.00	e2.2	e5.8	e7.2	32	e17	58	22	306	27	e8.2
5	0.00	e0.01	e2.3	e5.4	e8.0	415	e17	37	19	187	25	e7.6
6	0.00	e0.22	e2.3	e4.8	e8.0	126	e29	26	473	140	23	e7.5
7	0.00	e2.4	e2.5	e4.5	e7.1	56	158	22	5,470	114	22	e7.5
8	0.00	e1.9	e2.7	e4.3	e6.1	39	33	20	1,200	108	21	e9.4
9	0.00	e4.9	e3.7	e4.6	e5.6	32	28	20	5,600	92	19	e8.2
10	0.00	e3.8	e4.0	e4.8	e5.3	28	35	19	6,080	82	19	e7.2
11	0.00	e3.3	e4.5	e5.0	e11	26	e30	18	2,350	76	19	e6.4
12	0.00	e3.2	e4.9	e5.1	12	25	e25	18	1,360	73	18	e5.6
13	0.00	e2.6	e4.9	e5.3	9.9	24	e23	18	1,020	70	18	e4.8
14	0.00	e2.0	e5.7	e5.6	e8.4	28	e21	18	757	67	18	e6.5
15	0.00	e2.3	e6.3	e6.3	e8.5	31	e19	18	579	64	18	e8.4
16	0.00	e3.3	e6.3	e10	e9.8	28	e19	18	466	61	18	e7.7
17	0.00	e5.2	e5.5	17	e9.1	27	e19	18	374	59	17	e7.2
18	0.00	e3.8	e4.9	23	e8.0	26	e18	18	275	56	17	e6.2
19	0.00	e3.3	e4.3	e9.7	e7.1	25	e17	17	370	54	84	e5.5
20	0.00	e3.3	e4.3	e7.3	e7.0	28	e17	17	587	52	12	e4.5
21	0.00	e3.9	e4.6	e6.1	e6.5	51	e18	17	227	50	11	e3.7
22	0.00	e3.9	e4.6	e5.1	e6.2	e29	e17	17	180	48	11	e3.4
23	0.00	e3.3	e4.5	e4.6	e7.0	e26	e36	17	238	46	11	e3.0
24	0.00	e2.6	e4.4	e4.8	e9.0	e24	1,610	17	150	43	11	e2.8
25	0.00	e2.0	e4.4	e4.9	57	e25	869	17	119	41	10	e2.9
26	0.00	e2.0	e4.3	e4.9	102	e24	541	17	277	40	10	e2.9
27	0.00	e2.0	e4.7	e4.5	49	e25	313	18	234	38	10	e2.8
28	0.00	e1.9	e5.6	e4.3	28	e25	172	22	211	36	e11	e3.1
29	0.00	e1.9	e6.7	e4.2	28	e23	102	19	670	394	e11	e2.7
30	0.00	e1.9	e7.5	e4.1	---	e21	64	19	699	118	e11	e2.6
31	0.00	---	e6.6	e4.3	---	e19	---	19	---	38	e10	---
TOTAL	0.00	70.93	134.7	197.6	445.9	1,412	4,319	1,069	30,080	5,053	601	175.1
MEAN	0.00	2.36	4.35	6.37	15.4	45.5	144	34.5	1,003	163	19.4	5.84
MAX	0.00	5.2	7.5	23	102	415	1,610	275	6,080	1,210	84	9.4
MIN	0.00	0.00	1.7	4.1	4.6	19	17	17	19	36	10	2.6
AC-FT	0.00	141	267	392	884	2,800	8,570	2,120	59,660	10,020	1,190	347

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

	113	82.1	72.9	53.3	119	142	170	291	174	37.9	8.89	43.1
MAX	2,828	817	1,321	437	1,236	598	2,095	2,036	1,815	438	91.5	714
(WY)	(1982)	(1965)	(1992)	(1992)	(2001)	(1998)	(1990)	(1982)	(1989)	(1950)	(1973)	(1962)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1952)	(1952)	(1953)	(1953)	(1953)	(1955)	(1959)	(1953)	(1952)	(1952)	(1952)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

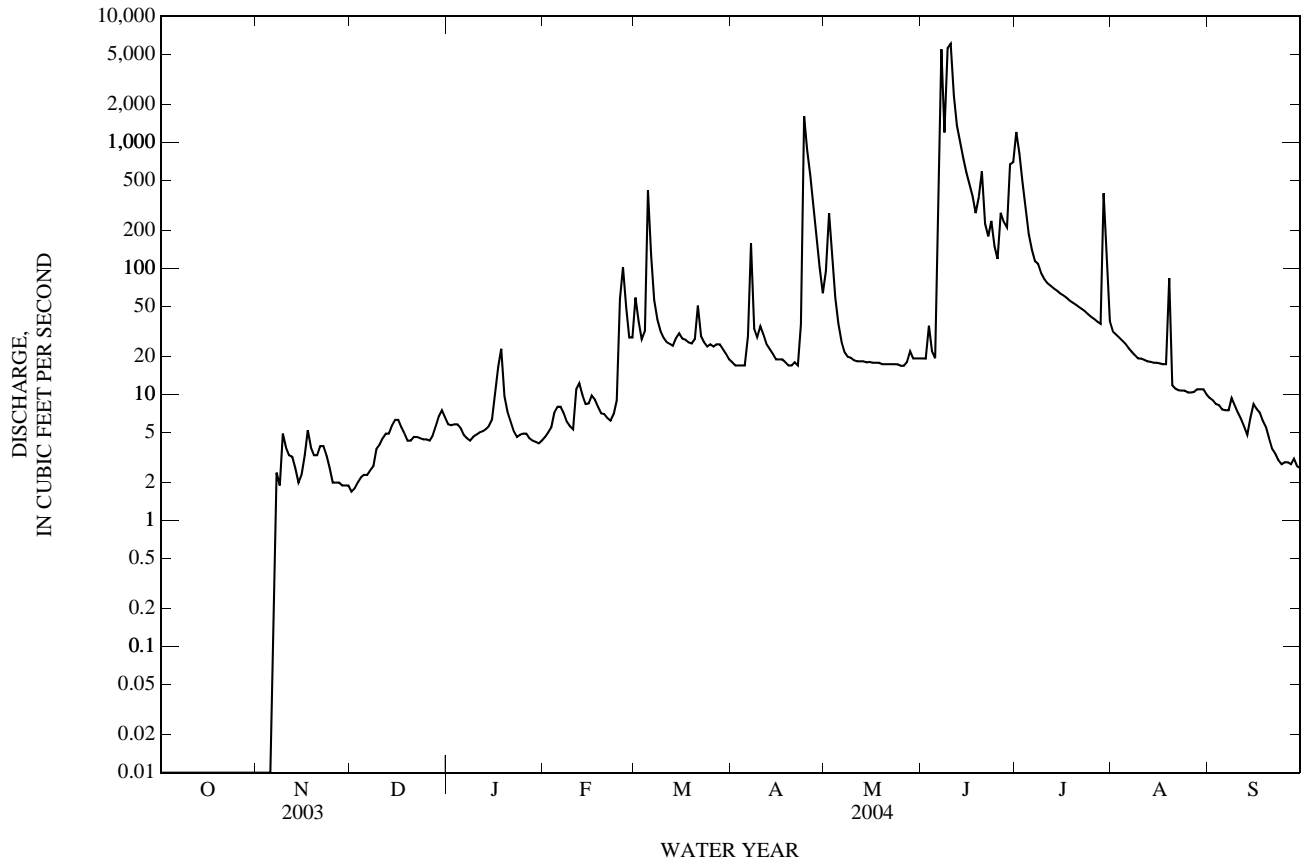
FOR 2004 WATER YEAR

WATER YEARS 1950 - 2004

ANNUAL TOTAL	12,814.17	43,558.23	
ANNUAL MEAN	35.1	119	109
HIGHEST ANNUAL MEAN			577
LOWEST ANNUAL MEAN			2.76
HIGHEST DAILY MEAN	1,150	Feb 22	6,080
LOWEST DAILY MEAN	0.00	Aug 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 1	0.00
MAXIMUM PEAK FLOW			7,510
MAXIMUM PEAK STAGE			15.28
ANNUAL RUNOFF (AC-FT)	25,420		86,400
10 PERCENT EXCEEDS	68		162
50 PERCENT EXCEEDS	11		11
90 PERCENT EXCEEDS	0.00		0.16
			0.00

e Estimated

08053500 Denton Creek near Justin, TX—Continued



08054500 Grapevine Lake near Grapevine, TX

LOCATION.--Lat 32°58'21", long 97°03'22", Tarrant County, Hydrologic Unit 12030104, in intake structure of Grapevine Dam on Denton Creek, 2.7 mi northeast of Grapevine, 4.3 mi upstream from bridge on State Highway 121, and 11.7 mi upstream from mouth.

DRAINAGE AREA.--695 mi².

PERIOD OF RECORD.--July 1952 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Grapevine Reservoir". Precipitation records: Oct. 2001 to Sept. 2002. Water-quality records: Chemical data: Oct. 1969 to Aug. 1986, Oct. 1997 to Sept. 2003. Biochemical data: Oct. 1969 to Aug. 1986, Oct. 1997 to Sept. 2003. Pesticide data: Sept. 1999 to Sept. 2003.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 16, 1953, nonrecording gage at site 1,000 ft upstream at present datum. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 12,850 ft long, including a 500-foot uncontrolled off-channel concrete-gravity spillway with an ogee weir section. The dam was completed in June 1952, and deliberate impoundment began July 3, 1952. The controlled outlet works consist of a 13.0-ft-diameter concrete conduit that is controlled by two 6.5- by 13.0-ft broome-type gates and two 30-in steel pipes with service valves. The lake was built for flood control, navigation, and water conservation. The dam is owned by the U.S. Army Corps of Engineers. The city of Dallas uses part of this water for their municipal supply. An unknown amount of water is diverted for industrial and municipal uses. Inflow is affected at times by discharge from the flood-detention pools of 87 floodwater-retarding structures with a combined detention capacity of 57,850 acre-ft. These structures control runoff from 217 mi² in the Denton Creek watershed. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	588.0
Crest of spillway	560.0
Lowest intake to wet wells (invert)	500.5
Invert of two broome-type gates	475.0

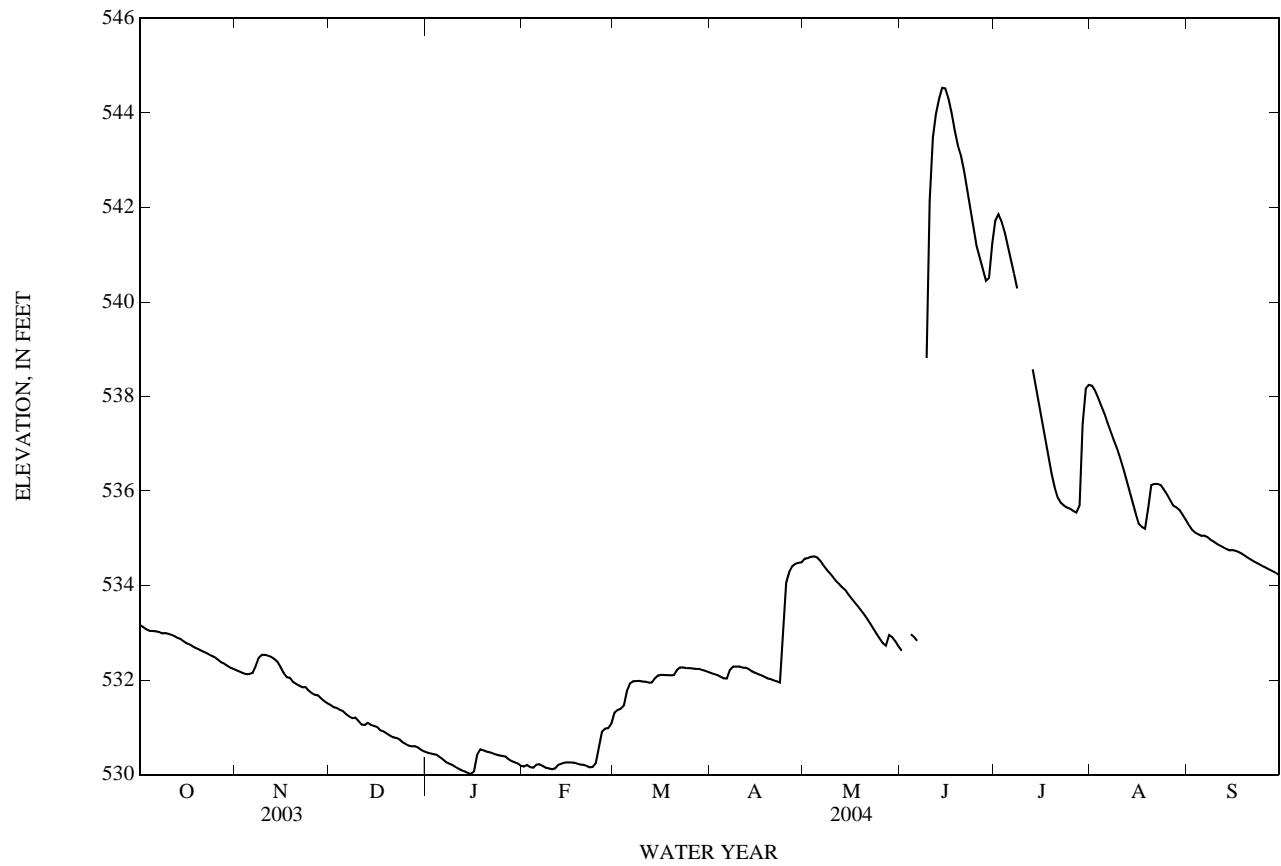
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 471,200 acre-ft, Nov. 1, 1981, elevation, 563.29 ft; minimum since lake first filled in 1957, 94,480 acre-ft, Feb. 26, 1979, elevation, 520.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 544.57 ft, June 14, 15; minimum elevation, 530.00 ft, Jan. 15, 16.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	533.16	532.20	531.48	530.47	530.17	531.31	532.15	534.57	532.62	541.72	538.23	535.29
2	533.12	532.18	531.43	530.45	530.20	531.37	532.12	534.58	---	541.85	538.12	535.19
3	533.07	532.15	531.41	530.43	530.16	531.39	532.11	534.61	---	541.71	537.97	535.12
4	533.04	532.12	531.37	530.42	530.15	531.47	532.07	534.62	532.97	541.48	537.80	535.09
5	533.04	532.13	531.34	530.37	530.21	531.77	532.04	534.59	532.91	541.20	537.64	535.05
6	533.03	532.15	531.28	530.32	530.22	531.93	532.03	534.52	532.83	540.90	537.44	535.06
7	533.02	532.29	531.23	530.27	530.18	531.98	532.22	534.42	---	540.60	537.25	535.02
8	532.99	532.47	531.20	530.23	530.15	531.98	532.29	534.34	---	540.29	537.08	534.97
9	532.99	532.54	531.21	530.21	530.13	531.98	532.28	534.27	538.82	---	536.91	534.93
10	532.98	532.54	531.13	530.16	530.11	531.97	532.29	534.18	542.14	---	536.71	534.88
11	532.96	532.51	531.06	530.13	530.13	531.97	532.26	534.10	543.48	---	536.48	534.85
12	532.93	532.49	531.05	530.09	530.21	531.95	532.26	534.03	543.98	---	536.25	534.81
13	532.90	532.45	531.10	530.07	530.23	531.95	532.24	533.96	544.30	538.57	536.00	534.78
14	532.87	532.38	531.05	530.04	530.25	532.04	532.19	533.90	544.53	538.23	535.76	534.74
15	532.82	532.28	531.03	530.01	530.26	532.10	532.15	533.81	544.52	537.87	535.52	534.75
16	532.78	532.15	531.01	530.07	530.26	532.11	532.13	533.72	544.31	537.50	535.31	534.74
17	532.75	532.06	530.94	530.42	530.25	532.11	532.10	533.64	544.00	537.13	535.24	534.71
18	532.71	532.05	530.91	530.53	530.23	532.10	532.07	533.56	543.64	536.76	535.20	534.67
19	532.67	531.96	530.87	530.51	530.21	532.10	532.04	533.48	543.32	536.38	535.64	534.63
20	532.64	531.92	530.83	530.49	530.21	532.10	532.02	533.39	543.10	536.08	536.13	534.59
21	532.61	531.88	530.79	530.47	530.18	532.21	531.99	533.29	542.77	535.87	536.15	534.55
22	532.58	531.85	530.78	530.45	530.16	532.27	531.97	533.19	542.39	535.75	536.15	534.51
23	532.55	531.86	530.75	530.43	530.16	532.27	531.95	533.08	542.00	535.69	536.13	534.47
24	532.51	531.78	530.69	530.41	530.24	532.26	532.89	532.98	541.60	535.65	536.04	534.44
25	532.48	531.73	530.65	530.40	530.59	532.25	534.06	532.88	541.19	535.62	535.93	534.40
26	532.43	531.69	530.62	530.39	530.91	532.25	534.30	532.78	540.94	535.58	535.81	534.37
27	532.38	531.68	530.60	530.33	530.97	532.24	534.41	532.73	540.71	535.54	535.69	534.33
28	532.35	531.61	530.60	530.29	530.99	532.24	534.46	532.96	540.45	535.69	535.66	534.30
29	532.30	531.56	530.58	530.26	531.08	532.22	534.48	532.91	540.51	537.42	535.60	534.26
30	532.26	531.51	530.53	530.24	---	532.20	534.50	532.82	541.23	538.17	535.50	534.22
31	532.23	---	530.49	530.19	---	532.17	---	532.72	---	538.25	535.39	---
MEAN	532.75	532.07	530.97	530.31	530.32	532.01	532.60	533.70	---	---	536.35	534.72
MAX	533.16	532.54	531.48	530.53	531.08	532.27	534.50	534.62	---	---	538.23	535.29
MIN	532.23	531.51	530.49	530.01	530.11	531.31	531.95	532.72	---	---	535.20	534.22
CAL YR	2003	MEAN 533.91	MAX 537.30	MIN 530.49								

08054500 Grapevine Lake near Grapevine, TX—Continued



08055000 Denton Creek near Grapevine, TX

LOCATION.--Lat 32°59'13", long 97°00'45", Denton County, Hydrologic Unit 12030104, on left bank at downstream side of bridge on State Highway 121, 1.3 mi downstream from Bakers Branch, 4.1 mi downstream from Grapevine Dam, 5.0 mi northeast of Grapevine, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--705 mi².

PERIOD OF RECORD.--Oct. 1947 to June 1991, July 2003 to current year. Monthly discharge only for some periods, published in WSP 1312. Water-quality records: Chemical data: Oct. 1997 to Sept. 2003. Biochemical data: Oct. 1997 to Sept. 2003.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 439.11 ft above NGVD of 1929. Oct. 1947 to June 1991, at site 0.1 mi upstream, at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since July 1952, at least 10% of contributing drainage area has been regulated. Flow regulated by Grapevine Lake, 4.1 mi upstream. Much of flow of Denton Creek is used by the City of Dallas for municipal supply (see station 08055500). The City of Grapevine diverts water from Denton Creek just downstream from Grapevine Dam, upstream from this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1948-52), 140 ft³/s (101,400 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1908 was slightly higher than the flood in Apr. 1942, which reached a stage of 35.9 ft, from floodmarks, from information by local resident.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1948-1952: Maximum discharge, 13,900 ft³/s, Feb. 26, 1948, gage height, 30.38 ft. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	68	91	88	95	110	86	112	329	792	329	305
2	58	69	91	88	96	106	90	102	358	1,090	546	208
3	59	69	91	87	94	104	91	101	458	e1,510	635	97
4	60	67	92	89	116	227	91	101	304	e1,510	630	75
5	64	75	93	91	109	121	91	163	300	e1,510	630	77
6	62	70	95	91	96	105	100	338	e302	e1,500	631	111
7	61	246	94	91	95	104	114	331	e310	1,500	630	82
8	60	108	92	89	95	104	89	334	e470	1,480	630	82
9	66	108	91	90	94	104	90	334	e440	e1,470	626	79
10	63	95	92	91	95	104	91	321	e360	e1,470	726	79
11	61	93	94	90	108	104	93	332	281	e1,450	806	76
12	60	93	112	89	102	107	91	315	278	e1,450	809	75
13	61	95	98	89	100	110	91	317	275	e1,440	805	78
14	61	165	95	89	105	114	91	296	559	e1,430	802	80
15	61	367	92	89	102	107	90	262	1,530	e1,420	803	79
16	60	407	93	227	100	104	90	259	e2,060	e1,410	510	77
17	64	442	93	282	100	104	89	255	e2,270	e1,410	69	75
18	68	319	93	95	100	102	90	254	e2,170	e1,400	70	76
19	68	199	94	94	99	102	89	253	e2,070	e1,020	229	68
20	68	92	93	92	100	101	89	253	e2,060	e736	83	57
21	67	93	91	92	102	103	88	272	e2,050	e450	76	57
22	69	92	90	90	103	101	86	298	2,050	e160	86	59
23	67	96	91	90	112	97	90	297	2,030	e77	175	58
24	69	96	92	92	116	95	227	296	e2,030	e68	325	60
25	71	94	91	90	173	94	129	290	e2,020	e66	325	60
26	71	92	90	93	109	94	104	289	e1,610	e64	321	60
27	73	91	90	94	106	93	101	391	e1,600	61	321	58
28	73	92	94	94	105	87	101	349	e1,440	478	461	59
29	70	93	91	92	142	86	101	289	e787	652	315	59
30	70	92	90	93	---	85	100	286	e805	82	305	59
31	71	---	90	93	---	86	---	291	---	111	303	---
TOTAL	2,014	4,178	2,879	3,144	3,069	3,265	2,963	8,381	33,606	29,267	14,012	2,525
MEAN	65.0	139	92.9	101	106	105	98.8	270	1,120	944	452	84.2
MAX	73	442	112	282	173	227	227	391	2,270	1,510	809	305
MIN	58	67	90	87	94	85	86	101	275	61	69	57
AC-FT	3,990	8,290	5,710	6,240	6,090	6,480	5,880	16,620	66,660	58,050	27,790	5,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004hz, BY WATER YEAR (WY)

MEAN	77.7	124	159	132	103	116	203	269	399	308	226	93.6
MAX	405	2,174	1,851	1,704	870	896	878	2,210	1,768	1,997	1,818	1,047
(WY)	(1963)	(1982)	(1982)	(1982)	(1975)	(1970)	(1969)	(1990)	(1989)	(1989)	(1982)	(1962)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.29	2.14	0.00	0.00	0.00	0.00
(WY)	(1953)	(1956)	(1954)	(1953)	(1953)	(1954)	(1956)	(1954)	(1953)	(1953)	(1953)	(1953)

08055000 Denton Creek near Grapevine, TX—Continued

SUMMARY STATISTICS

FOR 2004 WATER YEAR

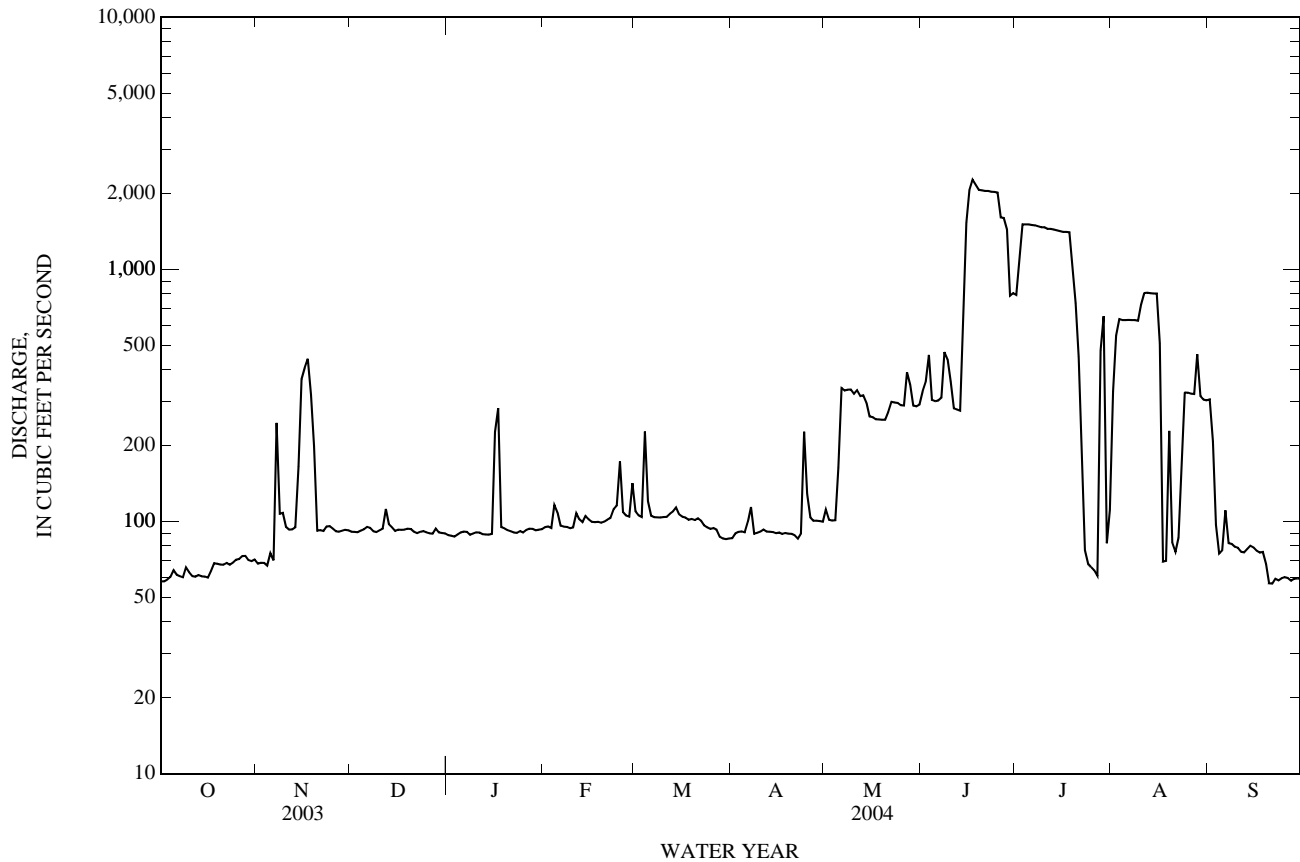
WATER YEARS 1953 - 2004^h

ANNUAL TOTAL	109,303			
ANNUAL MEAN	299		186	
HIGHEST ANNUAL MEAN			1,023	1982
LOWEST ANNUAL MEAN			1.88	1954
HIGHEST DAILY MEAN	2,270	Jun 17	7,790	Nov 2, 1981
LOWEST DAILY MEAN	57	Sep 20	0.00	Oct 1, 1952
ANNUAL SEVEN-DAY MINIMUM	59	Sep 20	0.00	Oct 1, 1952
MAXIMUM PEAK FLOW	2,290	Jun 17	13,900	Feb 26, 1948
MAXIMUM PEAK STAGE	15.15	Jun 17	30.38	Feb 26, 1948
ANNUAL RUNOFF (AC-FT)	216,800		135,000	
10 PERCENT EXCEEDS	804		495	
50 PERCENT EXCEEDS	96		51	
90 PERCENT EXCEEDS	68		4.7	

h See PERIOD OF RECORD paragraph.

z Period of regulated stream flow.

e Estimated



08055500 Elm Fork Trinity River near Carrollton, TX

LOCATION.--Lat 32°57'57", long 96°56'39", Dallas County, Hydrologic Unit 12030103, on right bank at upstream side of bridge on Sandy Lake Road, 75 ft upstream from Carrollton Dam, 0.3 mi downstream from Denton Creek, 1.0 mi upstream from St. Louis Southwestern Railway Lines bridge, 2.3 mi northwest of Carrollton, and 18.2 mi upstream from mouth.

DRAINAGE AREA.--2,459 mi².

PERIOD OF RECORD.--Jan. 1907 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to Nov. 1923, published as "near Dallas". Precipitation records: Oct. 2001 to Sept. 2002.

REVISED RECORDS.--WSP 788: 1924. WSP 1148: Drainage area at former site. WSP 1632: 1908(M). WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 431.40 ft above NGVD of 1929. Prior to Nov. 1923, nonrecording gage at site 15.5 mi downstream at different datum. Nov. 1, 1923, to Nov. 13, 1934, nonrecording gage, and Nov. 14, 1934, to July 6, 1938, water-stage recorder at site 300 ft upstream and at present datum. July 7, 1938, to Apr. 14, 1939, nonrecording gage at site 9.3 mi downstream at datum 22.94 ft lower. Apr. 15, 1939 to Sept. 30, 1955, water-stage recorder at site 8.5 mi downstream at datum 22.94 ft lower. Oct. 1, 1955, to Sept. 30, 1987, water-stage recorder at site 300 ft upstream and at datum 2.00 ft higher. Oct. 1, 1987 to July 7, 1999, at site 300 ft upstream at present datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since water year 1954, at least 10% of contributing drainage area has been regulated. The city of Dallas diverts water from the pool at gage and from the river 14.0 mi downstream for municipal use. A wastewater treatment plant returns water to the river below the station. TXU Electric Co. diverts water from the pool at gage into North Lake for cooling water at their electric generating plant. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--47 years (water years 1908-54), 818 ft³/s (592,600 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as flood of May 25, 1908.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1907-1954: Maximum gage height, about 19 ft, May 25, 1908, present site and datum, from information by local resident; estimated discharge, 145,000 ft³/s, at site 8.5 mi downstream, from information by U.S. Army Corps of Engineers; maximum gage height subsequent to 1908, 16.5 ft, Apr. 26, 1942, present site and datum, from observation by National Weather Service; discharge at site 8.5 mi downstream, 90,700 ft³/s; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	182	78	21	29	238	63	427	191	886	2,370	719
2	210	189	67	1.3	120	97	32	192	610	1,390	3,710	695
3	201	241	108	103	49	40	36	119	1,790	3,560	4,030	511
4	201	144	47	130	117	729	24	56	341	3,930	4,010	383
5	250	290	59	55	425	760	29	38	250	4,000	3,690	142
6	200	266	34	37	69	131	73	63	232	4,080	3,420	1,070
7	207	1,320	54	30	32	96	463	43	2,620	4,350	2,380	401
8	180	494	80	e23	30	42	201	87	924	4,420	1,590	256
9	263	453	84	e10	3.2	60	132	114	2,030	4,370	1,560	247
10	205	196	89	e72	5.5	66	130	83	1,440	4,150	1,560	241
11	163	107	108	e100	187	73	137	265	316	4,070	1,700	224
12	162	123	293	e41	249	73	151	271	346	3,870	1,610	216
13	160	98	324	e12	93	93	111	143	304	2,640	1,250	232
14	137	53	102	10	148	277	113	190	383	2,190	1,140	274
15	141	69	94	22	158	103	77	99	2,440	1,790	1,130	428
16	177	174	75	567	103	111	72	92	3,900	1,010	1,030	258
17	182	507	93	2,640	53	89	67	62	4,580	1,040	270	247
18	190	581	104	225	31	108	43	61	4,910	1,060	243	246
19	189	142	98	58	33	67	29	90	5,330	975	1,950	259
20	155	164	58	37	8.3	70	63	45	4,810	871	1,020	209
21	163	155	85	42	34	56	63	37	4,240	988	452	222
22	147	140	88	31	40	9.3	53	81	4,050	673	422	178
23	176	156	99	19	122	55	52	91	4,020	397	452	148
24	200	161	96	89	216	82	1,860	69	3,950	392	661	118
25	206	116	111	143	852	90	811	46	4,560	423	732	137
26	214	149	76	4.6	156	70	168	41	4,260	352	716	118
27	208	142	93	32	74	83	108	658	3,320	181	651	132
28	195	106	131	80	75	45	88	2,290	2,870	1,070	1,440	147
29	133	73	90	33	485	43	132	362	2,100	5,050	779	129
30	131	74	85	31	---	29	91	316	1,520	1,280	625	155
31	156	---	59	41	---	54	---	233	---	1,020	727	---
TOTAL	5,687	7,065	3,062	4,739.9	3,997.0	3,939.3	5,472	6,764	72,637	66,478	47,320	8,742
MEAN	183	236	98.8	153	138	127	182	218	2,421	2,144	1,526	291
MAX	263	1,320	324	2,640	852	760	1,860	2,290	5,330	5,050	4,030	1,070
MIN	131	53	34	1.3	3.2	9.3	24	37	191	181	243	118
AC-FT	11,280	14,010	6,070	9,400	7,930	7,810	10,850	13,420	144,100	131,900	93,860	17,340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004z BY WATER YEAR (WY)

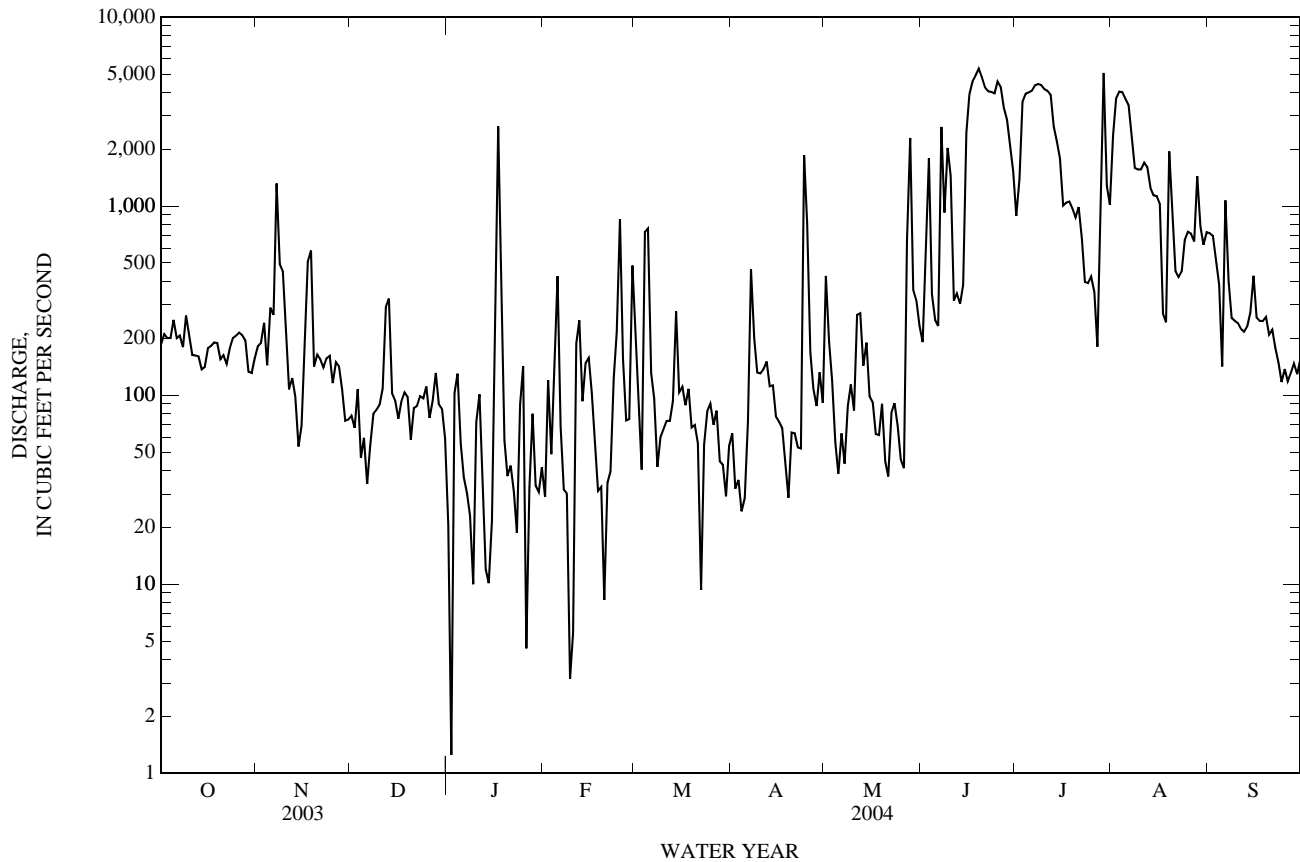
MEAN	402	695	774	590	722	1,092	1,091	1,517	1,565	907	522	287
MAX	3,554	8,830	6,785	6,614	5,868	5,655	4,782	10,920	6,757	6,224	6,003	3,406
(WY)	(1982)	(1982)	(1982)	(1992)	(1992)	(1997)	(1995)	(1990)	(1990)	(1989)	(1982)	(1962)
MIN	27.8	4.21	0.78	0.80	2.06	3.30	43.5	38.4	80.0	94.9	58.2	14.8
(WY)	(1981)	(1957)	(1978)	(1957)	(1957)	(1957)	(1955)	(1980)	(1959)	(1979)	(1979)	(1985)

08055500 Elm Fork Trinity River near Carrollton, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004z	
ANNUAL TOTAL	102,326		235,903.2		847	
ANNUAL MEAN	280		645		4,289	
HIGHEST ANNUAL MEAN					76.0	
LOWEST ANNUAL MEAN					1982	
HIGHEST DAILY MEAN	2,390	May 25	5,330	Jun 19	25,300	May 5, 1990
LOWEST DAILY MEAN	34	Dec 6	1.3	Jan 2	0.00	Dec 2, 1954
ANNUAL SEVEN-DAY MINIMUM	64	Dec 1	36	Jan 26	0.00	Jan 7, 1959
MAXIMUM PEAK FLOW			6,380	Jul 29	33,000	Sep 21, 1964
MAXIMUM PEAK STAGE			8.08	Jul 29	13.48	May 5, 1990
ANNUAL RUNOFF (AC-FT)	203,000		467,900		613,800	
10 PERCENT EXCEEDS	540		2,220		3,760	
50 PERCENT EXCEEDS	172		156		150	
90 PERCENT EXCEEDS	91		40		39	

z Period of regulated streamflow.

e Estimated



TRINITY RIVER BASIN

08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX

LOCATION.--Lat 32°50'31", long 96°53'23", Dallas County, Hydrologic Unit 12030103, on right bank of dam, 0.7 mi downstream of Spur 482, and 4.4 mi northeast of city hall in Irving, Texas.

DRAINAGE AREA.--2,557 mi².

PERIOD OF RECORD.--Apr. 1999 to current year (elevations only).

GAGE.--Water-stage recorder and a concrete weir. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for Oct. 1 to Feb. 6, which are fair. Water elevation is regulated by a concrete weir at gage.

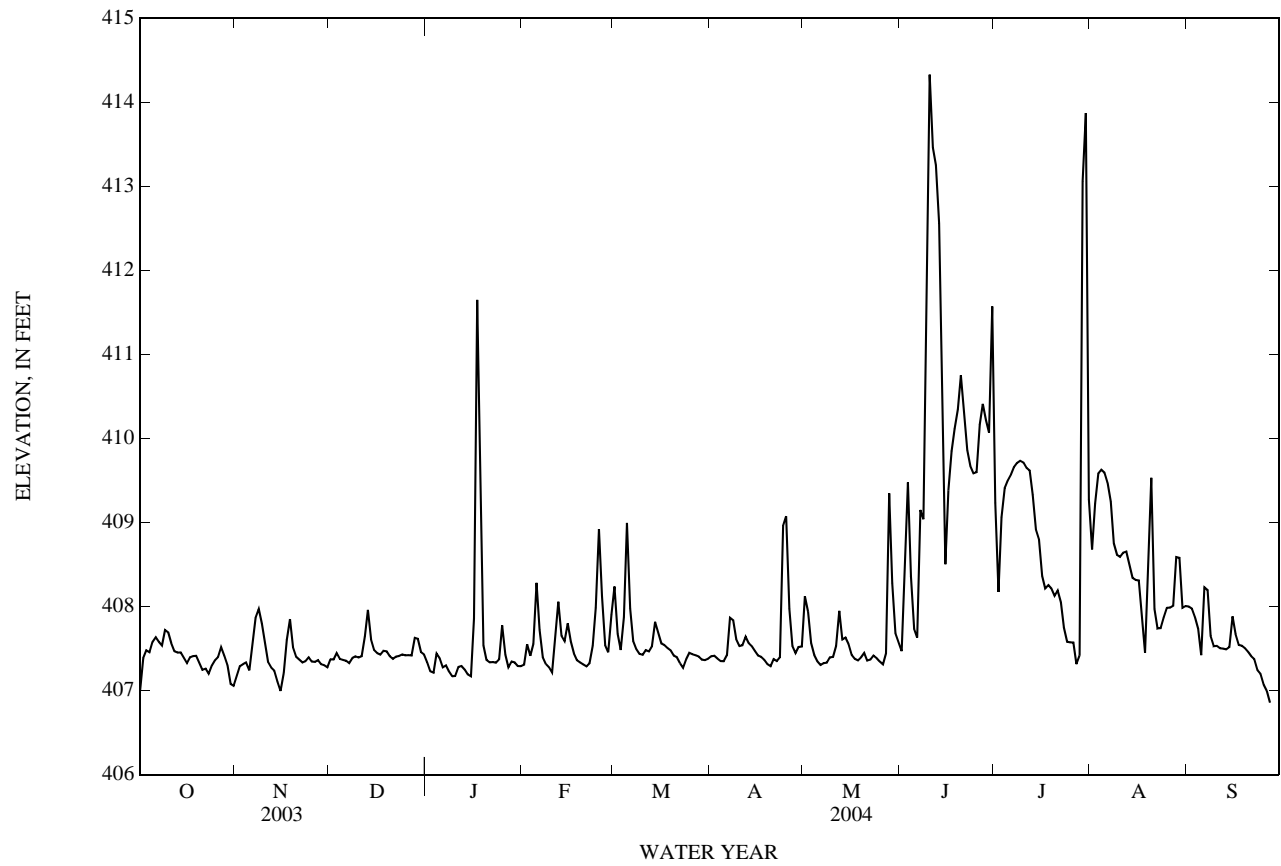
COOPERATION.--Maintained in cooperation with City of Dallas Water Utilities.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 415.27 ft, July 29; minimum elevation, unknown.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407.00	407.18	407.37	407.33	407.31	408.24	407.41	408.12	407.47	409.23	408.68	408.00
2	407.39	407.29	407.37	407.23	407.55	407.67	407.42	407.94	408.28	408.17	409.23	407.98
3	407.48	407.32	407.44	407.21	407.41	407.48	407.38	407.57	409.48	409.06	409.58	407.87
4	407.46	407.33	407.38	407.44	407.55	407.87	407.35	407.42	408.36	409.41	409.63	407.74
5	407.58	407.24	407.36	407.38	408.28	408.99	407.35	407.35	407.73	409.50	409.59	407.42
6	407.63	407.58	407.35	407.28	407.72	407.98	407.42	407.31	407.63	409.57	409.47	408.23
7	407.58	407.87	407.33	407.30	407.40	407.59	407.87	407.33	409.15	409.66	409.25	408.20
8	407.54	407.97	407.39	407.23	407.32	407.49	407.84	407.33	409.04	409.71	408.75	407.65
9	407.72	407.80	407.41	407.17	407.28	407.44	407.61	407.40	410.67	409.74	408.62	407.53
10	407.69	407.57	407.39	407.18	407.21	407.43	407.53	407.40	414.33	409.72	408.59	407.53
11	407.56	407.34	407.41	407.28	407.64	407.48	407.54	407.53	413.46	409.65	408.64	407.50
12	407.47	407.27	407.65	407.29	408.06	407.47	407.64	407.95	413.25	409.62	408.65	407.50
13	407.45	407.24	407.96	407.25	407.65	407.53	407.56	407.61	412.56	409.33	408.49	407.49
14	407.45	407.11	407.61	407.19	407.59	407.82	407.53	407.63	410.30	408.92	408.34	407.52
15	407.39	407.00	407.48	407.17	407.80	407.70	407.47	407.56	408.50	408.80	408.32	407.88
16	407.33	407.21	407.44	407.86	407.59	407.56	407.42	407.42	409.39	408.36	408.31	407.67
17	407.40	407.60	407.43	411.65	407.44	407.54	407.40	407.38	409.85	408.22	407.86	407.54
18	407.41	407.85	407.47	408.94	407.36	407.51	407.37	407.36	410.12	408.26	407.45	407.53
19	407.41	407.51	407.47	407.54	407.33	407.48	407.32	407.40	410.34	408.22	408.30	407.50
20	407.33	407.40	407.41	407.36	407.31	407.42	407.29	407.45	410.75	408.13	409.53	407.46
21	407.25	407.37	407.38	407.34	407.29	407.40	407.37	407.36	410.33	408.19	407.97	407.41
22	407.26	407.33	407.40	407.34	407.32	407.33	407.35	407.37	409.86	408.05	407.74	407.38
23	407.20	407.35	407.41	407.33	407.53	407.27	407.40	407.42	409.67	407.75	407.74	407.24
24	407.30	407.40	407.43	407.37	407.99	407.37	408.96	407.39	409.58	407.58	407.87	407.20
25	407.36	407.35	407.42	407.78	408.92	407.45	409.07	407.35	409.60	407.57	407.99	407.07
26	407.40	407.34	407.42	407.43	408.13	407.43	407.97	407.31	410.17	407.57	407.99	407.00
27	407.52	407.36	407.42	407.28	407.54	407.42	407.53	407.44	410.41	407.32	408.01	406.86
28	407.42	407.31	407.63	407.35	407.46	407.40	407.45	409.35	410.22	407.42	408.59	---
29	407.31	407.30	407.62	407.34	407.90	407.37	407.52	408.28	410.07	413.06	408.58	---
30	407.08	407.28	407.46	407.29	---	407.36	407.52	407.68	411.57	413.87	407.99	---
31	407.06	---	407.43	407.29	---	407.38	---	407.58	---	409.27	408.01	---
MEAN	407.40	407.40	407.46	407.53	407.62	407.58	407.60	407.58	410.07	409.00	408.51	---
MAX	407.72	407.97	407.96	411.65	408.92	408.99	409.07	409.35	414.33	413.87	409.63	---
MIN	407.00	407.00	407.33	407.17	407.21	407.27	407.29	407.31	407.47	407.32	407.45	---

08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX—Continued



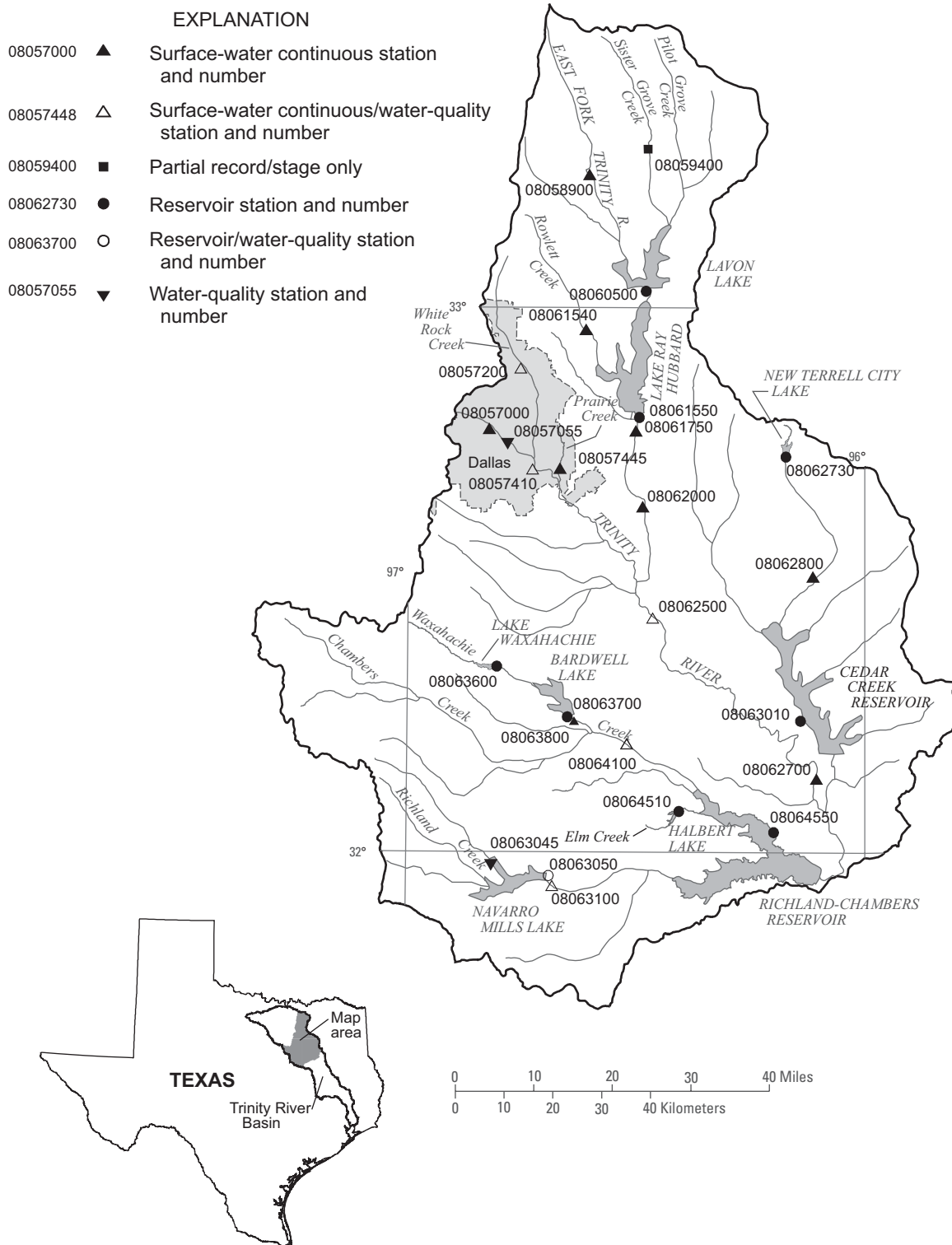


Figure 5.--Map showing location of gaging stations in the second section of the Trinity River Basin

08057000	Trinity River at Dallas, TX	250
08057055	Trinity River at Cedar Crest Boulevard, Dallas, TX	252
08057200	White Rock Creek at Greenville Avenue, Dallas, TX	260
08057410	Trinity River below Dallas, TX	268
08057445	Prairie Creek at U.S. Highway 175, Dallas, TX	274
08058900	East Fork Trinity River at McKinney, TX	276
08059400	Sister Grove Creek near Blue Ridge, TX	278
08060500	Lavon Lake near Lavon, TX	280
08061540	Rowlett Creek near Sachse, TX	282
08061550	Lake Ray Hubbard near Forney, TX	284
08061750	East Fork Trinity River near Forney, TX	286
08062000	East Fork Trinity River near Crandall, TX	288
08062500	Trinity River near Rosser, TX	290
08062700	Trinity River at Trinidad, TX	302
08062730	New Terrell City Lake near Terrell, TX	304
08062800	Cedar Creek near Kemp, TX	306
08063010	Cedar Creek Reservoir near Trinidad, TX	308
08063045	Richland Creek near Irene, TX	310
08063050	Navarro Mills Lake near Dawson, TX	312
08063100	Richland Creek near Dawson, TX	322
08063600	Lake Waxahachie near Waxahachie, TX	326
08063700	Bardwell Lake near Ennis, TX	328
08063800	Waxahachie Creek near Bardwell, TX	330
08064100	Chambers Creek near Rice, TX	332
08064510	Halbert Lake near Corsicana, TX	340
08064550	Richland-Chambers Reservoir near Kerens, TX	342

08057000 Trinity River at Dallas, TX

LOCATION.--Lat 32°46'29", long 96°49'18", Dallas County, Hydrologic Unit 12030105, on right bank (levee) 90 ft downstream from Commerce Street viaduct in Dallas, 5.2 mi downstream from confluence of West and Elm Forks, and at mile 500.3.

DRAINAGE AREA.--6,106 mi².

PERIOD OF RECORD.--Oct. 1898 to Dec. 1899 (gage heights only published in WSP 28 and 37), July 1903 to current year. Daily discharges are not available for all periods prior to 1931. Precipitation records: Oct. 2001 to Sept. 2002

REVISED RECORDS.--WSP 850: 1903-06 (monthly and annual means). WSP 1732: 1937(M). WSP 1922: Drainage area. WDR TX-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 368.02 ft above NGVD of 1929. Oct. 1, 1898, to Dec. 31, 1899, nonrecording gage at site 2.0 mi upstream at different datum. July 1, 1903, to July 20, 1930, nonrecording gage at present site and datum. July 21, 1930, to Sept. 30, 1932, nonrecording gage at site 6.0 mi downstream at datum 3.08 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1914, at least 10% of contributing drainage area as been regulated. The City of Dallas diverts water for municipal use from the Elm Fork, Lake Ray Hubbard (on the East Fork), and from Lake Tawakoni (on the Sabine River), and purchases water from North Texas Municipal Water District (from the East Fork). Wastewater effluent from the City of Dallas is returned to the river downstream from this station. The Trinity River Authority and the City of Fort Worth discharge wastewater effluent into the river upstream from this station. There are many other diversions upstream from this station for municipal, industrial and other uses.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--10 years (water years 1904-13), 1,047 ft³/s (758,600 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as that of May 25, 1908.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1903-1913: Maximum discharge, 184,000 ft³/s May 25, 1908 (gage height, 52.6 ft), from rating curve extended above 109,000 ft³/s. Maximum stage since at least 1840, that of May 25, 1908.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	643	468	536	540	592	4,160	592	5,300	768	13,000	6,760	1,580
2	655	483	546	516	1,010	1,830	551	5,940	4,820	7,020	7,320	1,160
3	686	496	548	515	1,440	1,910	547	2,830	8,670	6,240	8,920	1,090
4	678	501	537	567	952	e3,280	540	1,620	6,250	7,400	8,730	945
5	817	479	519	576	3,420	e6,990	543	1,480	2,200	7,450	8,880	806
6	1,250	584	505	545	1,720	3,830	637	1,330	1,460	6,980	8,570	2,170
7	963	1,610	502	539	733	2,180	897	1,250	4,260	6,750	6,240	2,090
8	808	3,750	524	515	643	1,830	895	1,250	10,300	6,910	4,500	1,020
9	1,160	2,440	536	500	868	1,660	670	1,580	12,400	6,220	4,110	1,230
10	1,250	1,090	522	491	1,020	1,560	604	1,280	25,300	5,890	4,010	805
11	1,280	658	515	508	1,290	1,100	598	1,400	25,800	5,750	3,970	770
12	1,320	564	995	516	2,300	923	698	1,770	25,600	5,390	3,320	763
13	750	532	2,770	503	1,410	1,320	707	842	22,300	4,390	2,970	758
14	1,260	505	1,040	491	931	1,140	633	977	16,300	3,260	1,860	782
15	856	490	672	487	1,230	1,040	596	857	11,100	2,730	1,510	1,230
16	512	499	611	2,150	965	788	568	672	10,900	2,110	1,720	952
17	520	1,270	567	11,300	1,380	734	552	1,020	10,900	1,380	1,140	806
18	511	3,680	559	8,510	917	687	548	584	10,500	1,380	754	767
19	522	1,230	556	2,240	645	822	536	581	10,400	1,320	3,510	747
20	514	655	545	820	625	919	529	588	10,600	1,220	11,300	770
21	500	593	546	702	586	628	538	557	10,500	1,240	4,320	719
22	492	569	556	658	585	693	539	548	9,720	1,170	1,330	693
23	480	601	552	652	1,660	621	556	565	8,830	950	1,280	645
24	481	661	546	657	2,820	602	5,160	562	8,500	792	1,250	620
25	487	601	535	1,100	6,150	616	9,470	550	8,310	751	1,710	593
26	489	558	524	753	6,490	610	4,480	537	9,740	756	1,640	580
27	496	555	533	602	2,240	594	1,340	626	11,400	671	1,260	592
28	492	525	712	595	1,440	665	877	4,910	12,200	1,400	3,860	596
29	483	508	818	810	2,910	664	934	3,590	12,700	18,700	4,720	579
30	465	500	616	612	---	613	1,640	919	14,800	23,000	2,080	577
31	466	---	570	558	---	688	---	737	---	12,500	1,460	---
TOTAL	22,286	27,655	20,613	40,528	48,972	45,697	37,975	47,252	337,528	164,720	125,004	27,435
MEAN	719	922	665	1,307	1,689	1,474	1,266	1,524	11,250	5,314	4,032	914
MAX	1,320	3,750	2,770	11,300	6,490	6,990	9,470	5,940	25,800	23,000	11,300	2,170
MIN	465	468	502	487	585	594	529	537	768	671	754	577
AC-FT	44,200	54,850	40,890	80,390	97,140	90,640	75,320	93,720	669,500	326,700	247,900	54,420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004hz, BY WATER YEAR (WY)

MEAN	1,188	1,302	1,466	1,330	2,033	2,389	2,558	3,797	3,075	1,284	750	802
MAX	10,050	14,150	12,860	13,350	10,410	14,910	27,050	28,050	17,390	8,629	6,075	7,107
(WY)	(1982)	(1982)	(1992)	(1992)	(1992)	(1945)	(1942)	(1990)	(1941)	(1989)	(1982)	(1962)
MIN	68.2	58.2	53.0	62.4	76.9	68.2	91.5	213	68.0	51.9	50.2	52.4
(WY)	(1935)	(1956)	(1939)	(1940)	(1940)	(1956)	(1955)	(1937)	(1953)	(1956)	(1956)	(1956)

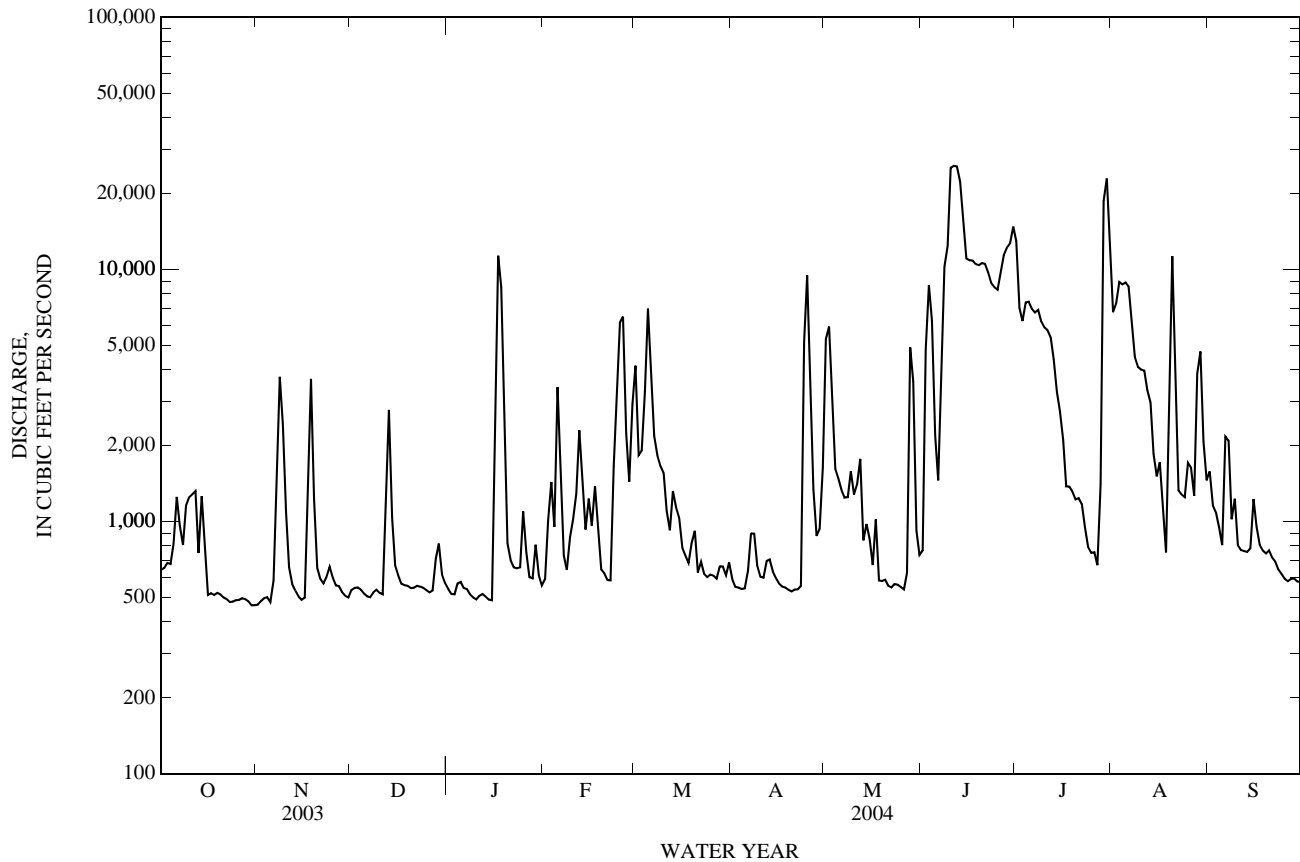
08057000 Trinity River at Dallas, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004 ^{h,z}	
ANNUAL TOTAL	402,180		945,665		1,829	
ANNUAL MEAN	1,102		2,584		7,154	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					103,000	
HIGHEST DAILY MEAN	10,100	Jun 14	25,800	Jun 11	10	Apr 26, 1942
LOWEST DAILY MEAN	457	Aug 7	465	Oct 30	26	Oct 1, 1953
ANNUAL SEVEN-DAY MINIMUM	461	Jul 29	479	Oct 27	111,000	Apr 12, 1935
MAXIMUM PEAK FLOW			28,900	Jun 10	47.10	Apr 26, 1942
MAXIMUM PEAK STAGE			38.10	Jun 10	47.10	May 3, 1990
ANNUAL RUNOFF (AC-FT)	797,700		1,876,000		1,325,000	
10 PERCENT EXCEEDS	2,110		7,710		5,220	
50 PERCENT EXCEEDS	740		856		450	
90 PERCENT EXCEEDS	492		516		116	

^h See PERIOD OF RECORD paragraph.

^z Period of regulated streamflow.

^e Estimated



08057055 Trinity River at Cedar Crest Blvd, Dallas, TX

LOCATION.--Lat 32°45'04", long 96°47'07", Dallas County, Hydrologic Unit 12030105, on upstream side of bridge, 1.8 mi southeast of Dallas City Hall, 2.3 mi downstream from Coombs Creek, and 2.9 mi downstream from Commerce Street Bridge.

DRAINAGE AREA.--6,132 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Feb. 1984 to Sept. 1993.

BIOCHEMICAL DATA: Feb. 1984 to Sept. 1993.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Feb. 1984 to current year.

pH: Feb. 1984 to current year.

WATER TEMPERATURES: Feb. 1984 to current year.

DISSOLVED OXYGEN: Feb. 1984 to current year.

INSTRUMENTATION.--Water-quality monitor since Feb. 1984. A YSI 600 XL monitor with four parameters (water temperature, specific conductance, pH, and dissolved oxygen) suspended in a four inch aluminum pipe at center of flow on upstream side of bridge on Cedar Crest Blvd. The probe is connected to a Sutron 8200 data collection platform (DCP) by cables. The Sutron and battery are housed in a 2 by 3 ft galvanized shelter.

REMARKS.--Records good except those for dissolved oxygen, which are poor. Interruptions in the record were caused by malfunctions of the instrument.

Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request. Discharge records are available for Trinity River at Dallas (station 08057000), 2.7 mi upstream. There is no appreciable inflow between the two stations.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,030 microsiemens/cm, Feb. 12, 1988; minimum, 93 microsiemens/cm, Oct. 20, 1984.

pH: Maximum, 9.0 standard units, June 27, 2000; minimum, 5.3 standard units, Feb. 1, 2002.

WATER TEMPERATURE: Maximum, 33.5°C, Aug. 12, 1987; minimum, 4.1°C, Dec. 27, 2000.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L, Feb. 27, 2003; minimum, 0.0 mg/L, July 21, 1985.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 853 microsiemens/cm, Apr. 2; minimum, 188 microsiemens/cm, July 29.

pH: Maximum, 8.5 standard units, Aug. 7, 8; minimum, 6.7 standard units, Aug. 13.

WATER TEMPERATURE: Maximum, 30.4°C, July 23, 24; minimum, 8.5°C, Feb. 13.

DISSOLVED OXYGEN: Maximum, 12.1 mg/L, Dec. 26, Mar. 23; minimum, 3.9 mg/L, July 30.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

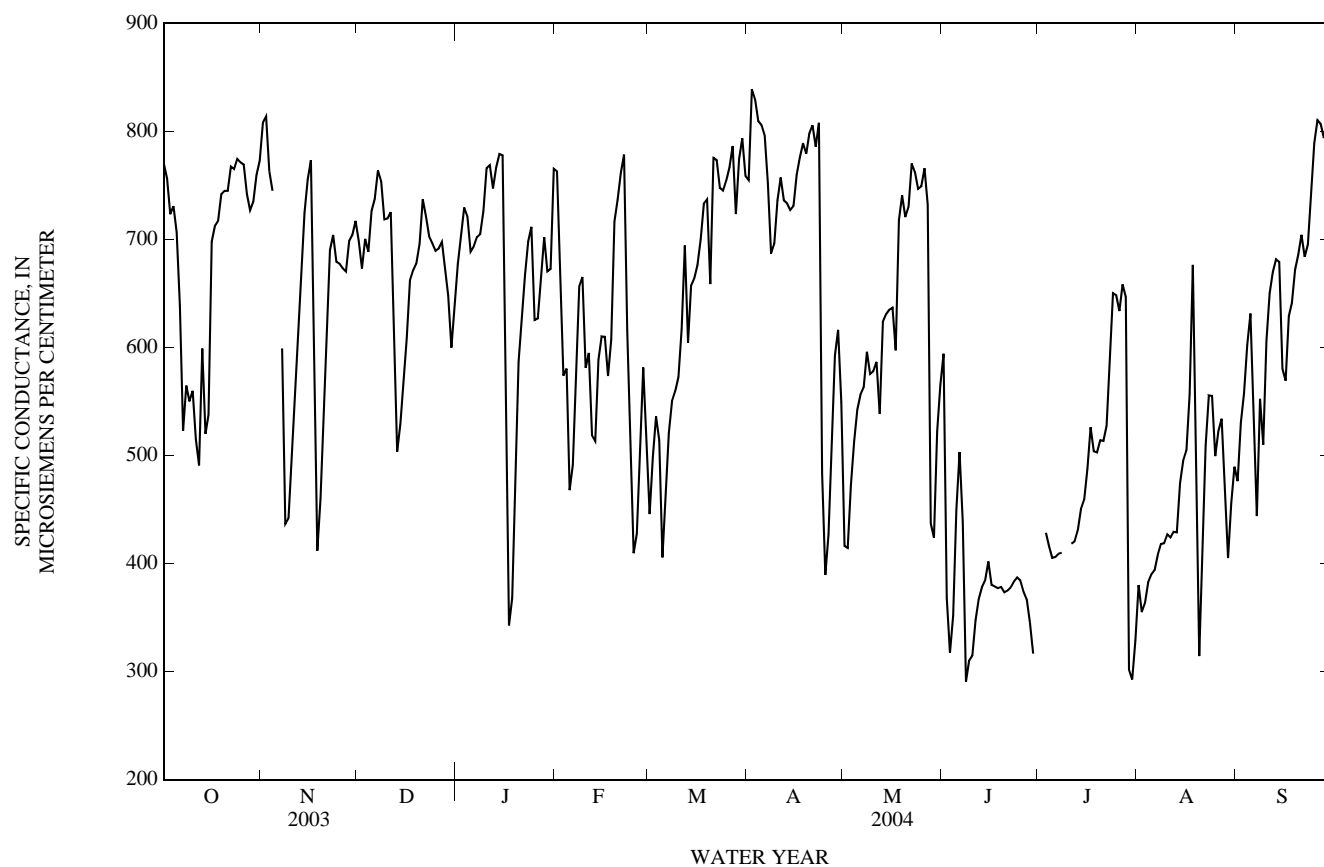
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	805	753	770	831	785	808	742	677	698	705	633	677
2	789	734	756	835	787	814	703	639	673	733	680	702
3	735	712	723	796	745	763	709	683	701	772	704	730
4	743	719	731	783	709	745	713	671	689	751	695	721
5	742	667	706	---	---	---	739	713	726	711	669	689
6	691	521	639	---	---	---	747	728	738	704	683	694
7	538	500	523	702	458	599	791	742	764	723	679	702
8	597	522	565	492	402	437	788	731	754	729	677	705
9	605	490	550	472	420	442	731	710	719	751	692	726
10	608	496	560	511	472	498	740	697	719	787	745	766
11	569	470	515	592	499	550	743	714	725	787	755	769
12	498	481	491	638	581	611	732	415	638	766	722	747
13	674	492	599	692	638	669	549	434	504	797	739	767
14	695	496	520	756	680	725	535	525	529	795	760	779
15	627	501	538	800	731	756	601	528	571	806	761	778
16	731	627	698	798	751	773	619	601	609	792	298	535
17	731	700	713	776	351	647	682	619	662	381	285	343
18	741	688	717	495	337	412	682	660	671	406	341	368
19	764	722	742	503	416	460	693	658	678	522	406	475
20	768	722	745	571	503	541	710	681	696	612	522	587
21	768	720	745	667	571	618	762	706	737	662	609	627
22	793	747	768	721	667	690	748	705	721	686	650	667
23	786	741	765	740	674	704	721	684	703	714	679	698
24	785	759	774	694	666	679	733	682	696	734	686	712
25	787	741	771	686	673	678	709	672	690	713	581	626
26	788	754	769	681	651	673	712	674	692	660	600	627
27	771	731	742	702	650	670	715	675	698	688	660	669
28	742	711	727	729	668	698	708	633	671	722	683	702
29	759	720	735	718	690	704	684	587	648	734	562	670
30	766	751	760	749	693	717	620	577	600	766	569	673
31	787	760	773	---	---	---	658	615	638	783	747	765
MONTH	805	470	682	---	---	---	791	415	676	806	285	668

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	792	562	763	471	422	446	827	624	755	469	265	416
2	725	562	659	553	455	499	853	818	839	453	385	414
3	708	532	574	547	522	536	839	807	830	486	453	473
4	638	430	580	632	319	514	823	796	810	560	486	513
5	499	422	468	454	383	406	818	797	806	579	533	543
6	536	462	491	497	412	457	825	771	796	562	540	556
7	617	536	591	539	497	521	818	700	752	579	548	563
8	676	617	656	565	539	550	700	681	687	607	576	596
9	711	565	665	567	548	560	705	683	696	652	525	575
10	654	566	581	582	555	573	754	705	736	592	554	578
11	714	460	595	701	569	617	771	736	757	607	524	587
12	552	460	518	748	592	694	749	714	736	595	501	538
13	530	500	513	651	591	605	744	714	733	658	579	624
14	613	530	588	717	550	657	743	720	727	664	575	631
15	628	581	610	687	639	664	739	721	731	654	614	635
16	616	596	610	693	640	676	772	735	760	655	610	637
17	616	562	574	721	675	700	788	765	776	672	575	597
18	691	561	608	742	721	733	805	773	789	752	633	718
19	741	691	717	782	590	737	794	767	779	761	724	741
20	751	712	737	761	590	659	825	775	798	737	690	721
21	783	726	762	782	761	775	823	795	806	768	690	730
22	794	758	778	781	760	774	800	774	786	784	756	770
23	771	423	616	779	738	748	835	787	808	776	754	762
24	587	463	541	754	738	745	832	333	483	756	736	747
25	463	365	410	767	746	754	426	367	389	774	730	749
26	467	400	428	778	752	767	467	410	427	774	754	766
27	571	467	517	798	773	786	547	467	513	766	545	732
28	606	546	581	801	404	723	612	547	593	604	369	437
29	549	433	503	786	721	774	647	575	616	469	374	424
30	---	---	---	808	784	794	620	252	549	544	469	522
31	---	---	---	801	620	759	---	---	---	587	544	565
MONTH	794	365	594	808	319	652	853	252	709	784	265	608
	JUNE			JULY			AUGUST			SEPTEMBER		
1	652	297	594	---	---	---	405	353	380	515	458	476
2	553	298	368	---	---	---	367	344	355	546	515	530
3	330	300	317	451	411	429	375	350	364	573	528	558
4	394	326	352	432	397	416	392	372	383	621	569	602
5	487	394	449	407	402	405	397	383	390	684	594	631
6	524	480	503	413	400	406	396	391	394	710	356	538
7	565	282	439	427	394	409	466	388	408	516	406	444
8	326	260	291	418	397	410	432	400	418	577	515	552
9	321	275	310	---	---	---	428	413	419	608	459	510
10	331	283	315	---	---	---	437	414	427	631	564	606
11	361	331	347	435	414	418	432	411	424	671	628	650
12	372	361	367	430	415	421	435	425	429	682	661	670
13	383	370	378	460	398	431	435	422	429	691	673	682
14	390	380	385	474	434	451	580	430	474	696	630	679
15	419	390	402	497	440	459	522	446	495	652	511	580
16	417	373	380	520	458	488	593	463	505	608	517	569
17	382	374	379	542	503	526	630	478	557	654	598	629
18	380	372	377	532	487	504	709	630	676	658	630	641
19	382	374	378	515	487	503	687	333	537	693	652	672
20	379	369	373	529	492	514	347	293	314	703	670	686
21	378	372	375	546	469	513	462	347	398	722	688	704
22	382	373	378	562	493	528	529	462	509	703	667	684
23	386	379	383	634	527	594	574	518	556	718	680	695
24	390	383	387	694	605	650	583	526	555	764	717	741
25	389	378	384	691	616	648	550	472	499	812	764	789
26	383	365	374	671	587	634	582	482	523	819	804	810
27	379	342	367	731	632	658	566	479	534	824	800	807
28	371	329	345	771	196	647	587	336	472	801	787	794
29	372	290	317	346	188	302	438	376	405	817	798	809
30	---	---	---	309	267	293	506	438	456	814	788	797
31	---	---	---	361	309	329	548	461	490	---	---	---
MONTH	---	---	---	---	---	---	709	293	457	824	356	651

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued



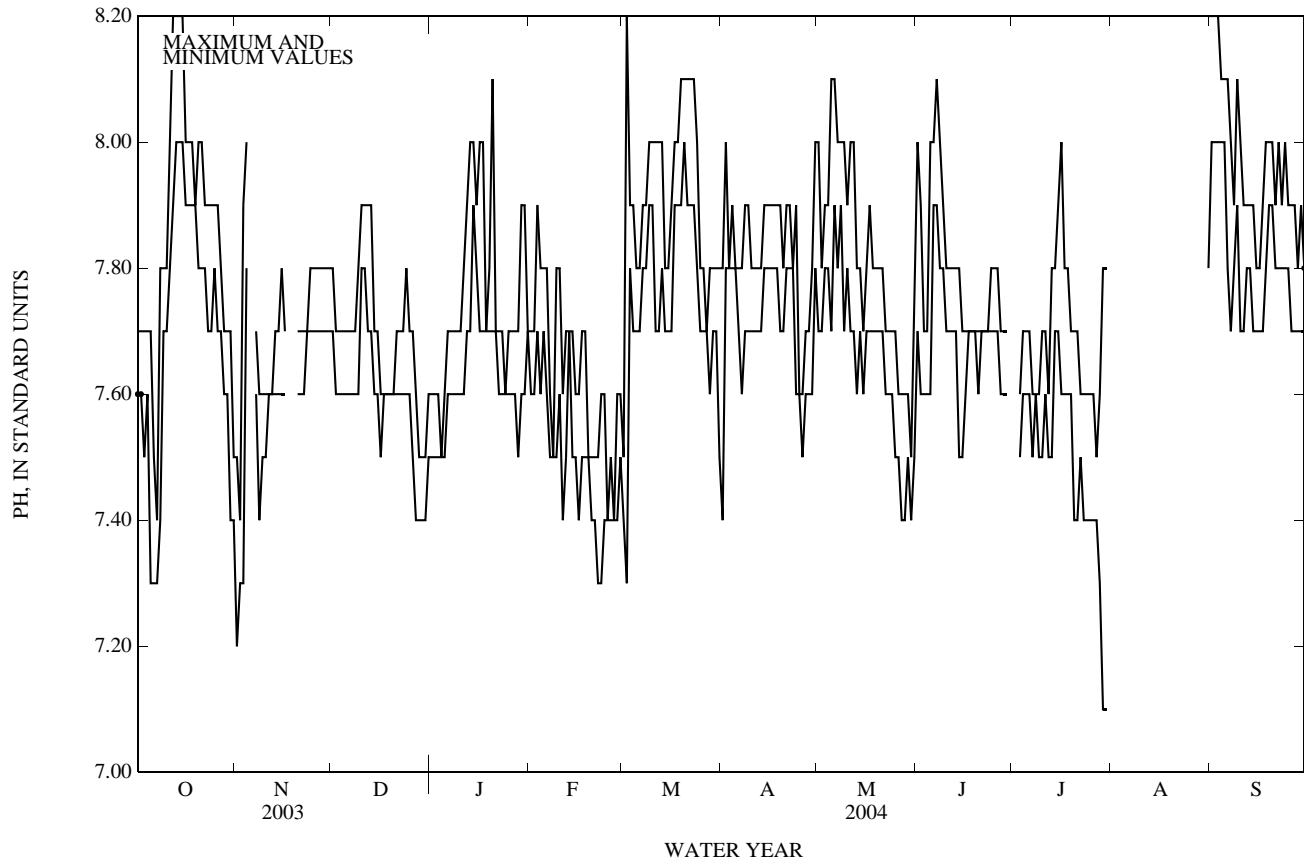
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



TRINITY RIVER BASIN

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

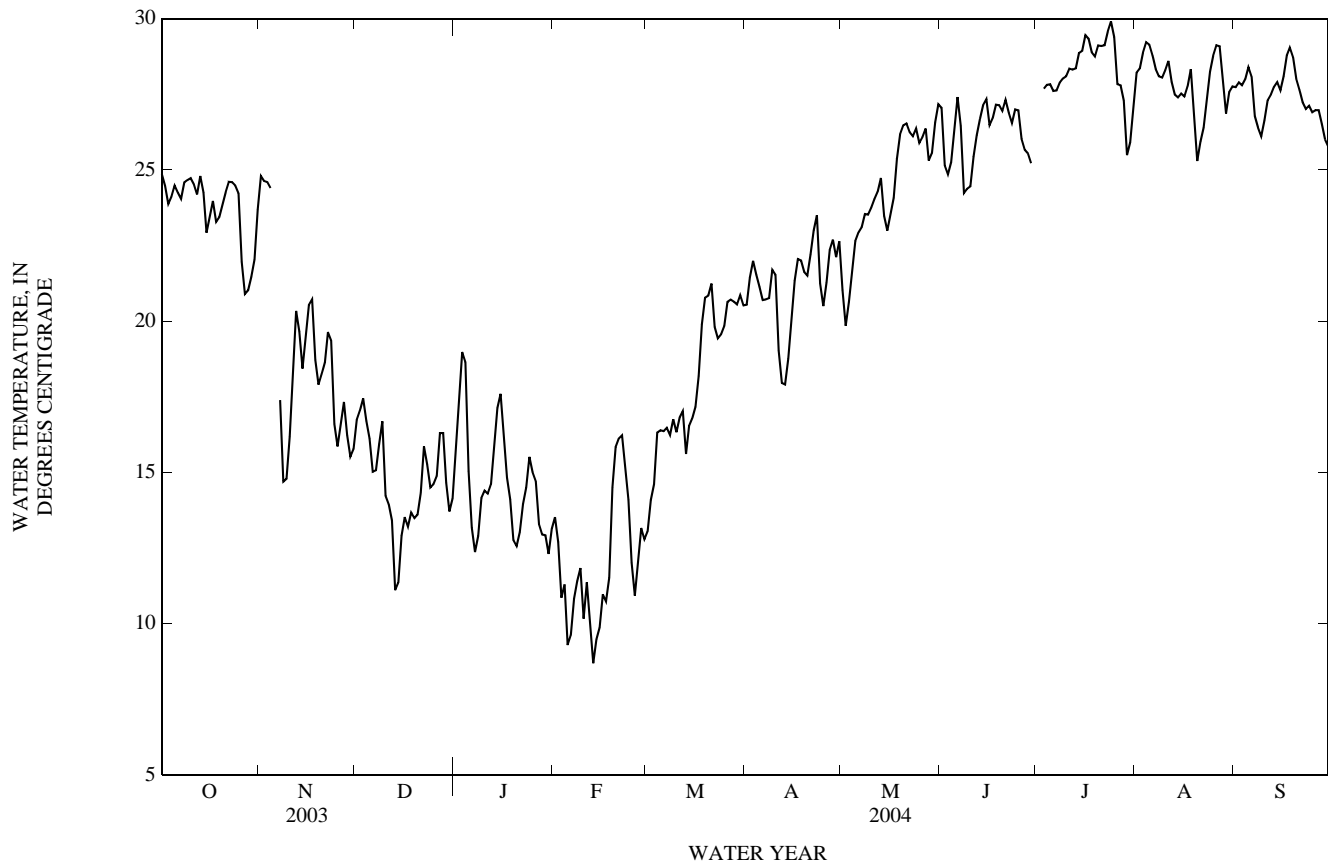
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	25.7	24.2	24.9	25.5	24.1	24.8	17.6	16.0	16.7	16.9	14.6	16.0
2	25.2	24.0	24.5	25.0	24.4	24.6	17.4	16.5	17.1	18.7	16.6	17.6
3	24.5	23.4	23.9	24.8	24.2	24.6	18.1	16.8	17.4	19.6	18.3	19.0
4	25.1	23.4	24.1	24.7	24.1	24.4	17.3	16.2	16.7	19.4	16.8	18.7
5	24.8	24.0	24.5	---	---	---	16.7	15.2	16.1	16.8	13.9	15.0
6	24.6	24.0	24.3	---	---	---	15.7	14.6	15.0	13.9	12.4	13.2
7	24.7	23.6	24.1	19.6	15.4	17.4	15.8	14.4	15.1	12.9	11.9	12.4
8	25.1	24.1	24.6	16.1	14.2	14.7	17.0	15.1	15.9	14.0	11.8	12.9
9	25.1	24.3	24.7	15.3	14.5	14.8	17.2	15.1	16.7	15.0	13.6	14.2
10	25.3	24.3	24.7	17.1	15.3	16.2	15.1	13.6	14.2	15.1	13.5	14.4
11	25.0	24.3	24.5	19.6	17.1	18.4	14.4	13.6	13.9	15.3	13.5	14.3
12	24.3	24.0	24.2	21.1	19.6	20.3	14.3	11.4	13.4	15.5	13.8	14.6
13	25.7	24.0	24.8	20.3	18.8	19.7	12.1	10.4	11.1	17.0	15.0	15.9
14	26.0	23.4	24.3	18.8	17.9	18.4	11.7	11.0	11.4	18.1	16.4	17.1
15	23.5	22.5	22.9	20.4	18.6	19.5	14.0	11.6	12.9	17.9	17.3	17.6
16	24.6	22.7	23.5	21.4	19.9	20.5	14.0	12.9	13.5	17.7	14.3	16.1
17	24.7	23.2	24.0	22.0	19.3	20.7	13.9	12.8	13.2	15.1	14.4	14.8
18	24.3	22.6	23.3	19.8	18.2	18.7	14.4	13.3	13.7	15.0	13.2	14.1
19	24.5	22.8	23.4	18.3	17.6	17.9	14.3	13.0	13.5	13.2	12.5	12.8
20	24.9	23.2	23.8	18.8	17.8	18.3	14.4	13.2	13.6	13.0	12.1	12.6
21	25.4	23.6	24.3	19.2	18.2	18.6	15.5	13.3	14.3	13.6	12.5	13.0
22	25.6	24.0	24.6	20.4	19.0	19.6	16.9	14.8	15.9	14.5	13.5	14.0
23	25.5	24.0	24.6	20.4	17.4	19.4	15.6	14.6	15.3	15.0	14.0	14.5
24	25.4	23.9	24.5	17.4	16.0	16.6	15.3	14.0	14.5	15.8	15.0	15.5
25	25.0	23.1	24.2	16.1	15.6	15.9	15.4	14.1	14.6	15.7	14.4	15.0
26	23.1	20.7	22.0	17.6	15.7	16.6	15.6	14.2	14.9	15.2	13.8	14.7
27	21.6	19.9	20.9	17.8	16.6	17.3	17.2	15.3	16.3	13.8	12.8	13.3
28	21.9	20.3	21.0	16.7	15.6	16.2	16.9	15.0	16.3	13.6	12.6	12.9
29	22.4	20.7	21.5	16.2	15.0	15.5	15.1	13.8	14.7	14.2	10.9	12.9
30	22.9	21.2	22.0	16.9	14.8	15.8	14.3	13.3	13.7	13.8	10.9	12.3
31	24.6	22.7	23.7	---	---	---	15.0	13.4	14.1	13.4	12.9	13.1
MONTH	26.0	19.9	23.8	---	---	---	18.1	10.4	14.7	19.6	10.9	14.7
FEBRUARY			MARCH			APRIL			MAY			
1	14.1	12.8	13.5	13.9	12.4	13.1	22.0	19.3	20.5	22.4	19.7	21.0
2	13.3	12.1	12.7	15.1	13.5	14.1	22.2	21.0	21.4	20.7	19.3	19.8
3	13.1	9.1	10.9	15.3	14.1	14.6	23.0	21.4	22.0	21.6	20.0	20.6
4	11.9	9.4	11.3	17.4	15.3	16.3	22.2	21.0	21.5	23.1	20.7	21.6
5	9.7	8.6	9.3	16.9	16.0	16.4	22.0	20.6	21.1	23.2	22.0	22.6
6	10.3	9.0	9.6	16.9	15.8	16.4	21.2	20.1	20.7	23.5	22.3	22.9
7	11.7	10.2	10.8	16.8	16.0	16.5	21.1	20.2	20.7	23.6	22.6	23.1
8	11.8	11.1	11.4	16.9	15.6	16.2	21.6	19.9	20.8	24.0	23.1	23.5
9	13.4	10.1	11.8	17.1	16.4	16.8	22.7	20.7	21.7	23.9	23.2	23.5
10	11.2	9.8	10.2	16.8	15.8	16.3	22.5	20.2	21.5	24.4	23.1	23.8
11	12.3	9.9	11.4	17.7	16.1	16.8	20.2	18.1	19.0	24.4	23.6	24.0
12	10.3	9.2	10.0	17.8	15.7	17.0	18.3	17.6	18.0	25.2	23.7	24.3
13	9.2	8.5	8.7	16.0	15.4	15.6	18.7	17.0	17.9	25.2	24.2	24.7
14	9.9	8.9	9.5	17.0	16.0	16.5	19.8	17.7	18.8	24.2	23.2	23.5
15	10.7	8.8	9.9	17.0	16.6	16.8	21.1	19.0	19.9	23.5	22.4	23.0
16	11.7	10.4	11.0	17.9	16.4	17.2	22.5	20.5	21.3	24.3	22.7	23.5
17	12.2	10.0	10.7	19.3	17.0	18.2	22.6	21.8	22.1	24.8	23.3	24.1
18	13.5	10.2	11.5	20.8	18.9	19.9	22.3	21.7	22.0	26.2	24.6	25.4
19	15.4	13.5	14.5	21.4	19.9	20.8	21.8	21.5	21.6	27.1	25.6	26.2
20	16.6	15.2	15.8	22.4	19.6	20.8	22.1	21.1	21.5	26.9	26.1	26.5
21	17.0	15.6	16.1	22.4	20.0	21.2	23.1	21.5	22.2	27.3	26.1	26.5
22	17.0	15.6	16.2	20.3	19.3	19.8	23.7	22.3	23.0	26.5	25.8	26.2
23	16.9	14.3	15.2	20.1	18.8	19.4	23.9	23.2	23.5	26.8	25.7	26.1
24	14.7	13.4	14.1	19.9	19.3	19.6	23.5	20.4	21.2	26.6	26.2	26.4
25	13.4	11.3	12.0	20.5	19.3	19.8	21.1	20.0	20.5	26.2	25.7	25.9
26	11.5	10.4	10.9	21.1	20.4	20.6	22.3	20.7	21.3	26.9	25.5	26.1
27	13.4	11.1	12.0	21.1	20.3	20.7	23.4	21.5	22.3	27.0	25.1	26.4
28	13.6	12.8	13.2	21.3	19.8	20.6	23.4	22.3	22.7	25.8	24.9	25.3
29	12.9	12.6	12.8	21.5	19.6	20.6	23.1	21.1	22.1	26.3	25.2	25.6
30	---	---	---	21.7	20.3	20.9	23.3	21.2	22.6	27.5	25.7	26.6
31	---	---	---	21.6	19.8	20.5	---	---	---	27.9	26.2	27.2
MONTH	17.0	8.5	12.0	22.4	12.4	18.1	23.9	17.0	21.2	27.9	19.3	24.4

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.3	24.3	27.1	---	---	---	28.7	27.9	28.2	28.5	27.0	27.7
2	26.4	23.9	25.2	27.8	---	---	29.0	27.9	28.4	28.5	27.1	27.9
3	25.2	24.4	24.9	28.1	27.4	27.7	29.4	28.4	28.9	28.3	27.1	27.8
4	26.1	24.8	25.3	28.3	27.4	27.8	29.6	28.9	29.2	28.6	27.4	28.0
5	27.7	25.6	26.4	28.1	27.6	27.8	29.5	28.6	29.1	29.1	27.8	28.4
6	27.9	26.7	27.4	27.9	27.4	27.6	29.1	28.5	28.8	29.0	26.9	28.1
7	27.8	24.8	26.5	27.8	27.5	27.6	28.8	28.1	28.3	27.5	26.3	26.8
8	24.8	23.8	24.2	28.2	27.6	27.9	28.4	27.8	28.1	27.0	25.6	26.4
9	24.5	24.0	24.4	28.2	27.8	28.0	28.7	27.6	28.1	26.9	25.1	26.1
10	25.3	23.9	24.5	28.4	27.7	28.1	29.0	27.7	28.3	27.3	25.9	26.6
11	26.2	24.9	25.4	28.6	28.0	28.4	29.0	28.2	28.6	27.8	26.5	27.3
12	26.8	25.6	26.2	28.6	28.0	28.3	28.3	27.4	27.9	28.2	26.8	27.5
13	27.5	26.1	26.7	29.1	27.7	28.4	27.9	27.2	27.5	28.1	27.2	27.8
14	27.8	26.6	27.1	29.4	28.4	28.9	28.0	26.9	27.4	28.3	27.3	27.9
15	27.7	27.1	27.3	29.8	28.1	28.9	28.1	26.9	27.5	28.1	27.2	27.6
16	27.5	25.9	26.5	30.0	29.0	29.5	28.0	26.9	27.4	28.8	27.3	28.1
17	27.3	26.3	26.7	29.9	28.9	29.3	28.6	26.9	27.8	29.4	28.0	28.8
18	27.6	26.8	27.2	29.5	28.3	28.9	29.0	27.6	28.3	29.5	28.5	29.0
19	27.6	26.9	27.1	29.6	27.9	28.7	28.6	25.4	27.0	29.2	28.1	28.7
20	27.4	26.6	26.9	30.0	28.2	29.1	25.9	24.1	25.3	28.5	27.4	28.0
21	27.5	27.1	27.3	29.6	28.5	29.1	26.1	25.8	25.9	28.1	27.2	27.7
22	27.5	26.6	26.9	29.9	28.3	29.1	27.3	25.9	26.4	27.7	26.9	27.2
23	27.1	26.1	26.6	30.4	28.7	29.6	28.2	26.7	27.4	27.7	26.6	27.0
24	27.3	26.7	27.0	30.4	29.3	29.9	29.1	27.4	28.3	28.1	26.5	27.1
25	27.3	26.6	27.0	30.1	28.5	29.4	29.5	28.0	28.8	27.7	26.4	26.9
26	26.6	25.7	26.0	28.5	27.2	27.8	29.8	28.3	29.1	27.9	26.3	27.0
27	26.1	25.2	25.7	28.4	27.3	27.8	29.7	28.3	29.1	27.8	26.3	27.0
28	25.8	25.3	25.6	28.1	24.8	27.3	29.5	26.4	27.9	26.9	26.1	26.5
29	25.8	24.9	25.2	26.2	24.0	25.5	27.4	26.5	26.9	27.0	25.2	26.0
30	---	---	---	26.8	25.0	25.9	28.3	27.0	27.6	26.4	25.2	25.8
31	---	---	---	27.9	26.4	27.0	28.6	26.9	27.8	---	---	---
MONTH	---	---	---	---	---	---	29.8	24.1	27.9	29.5	25.1	27.4



TRINITY RIVER BASIN

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

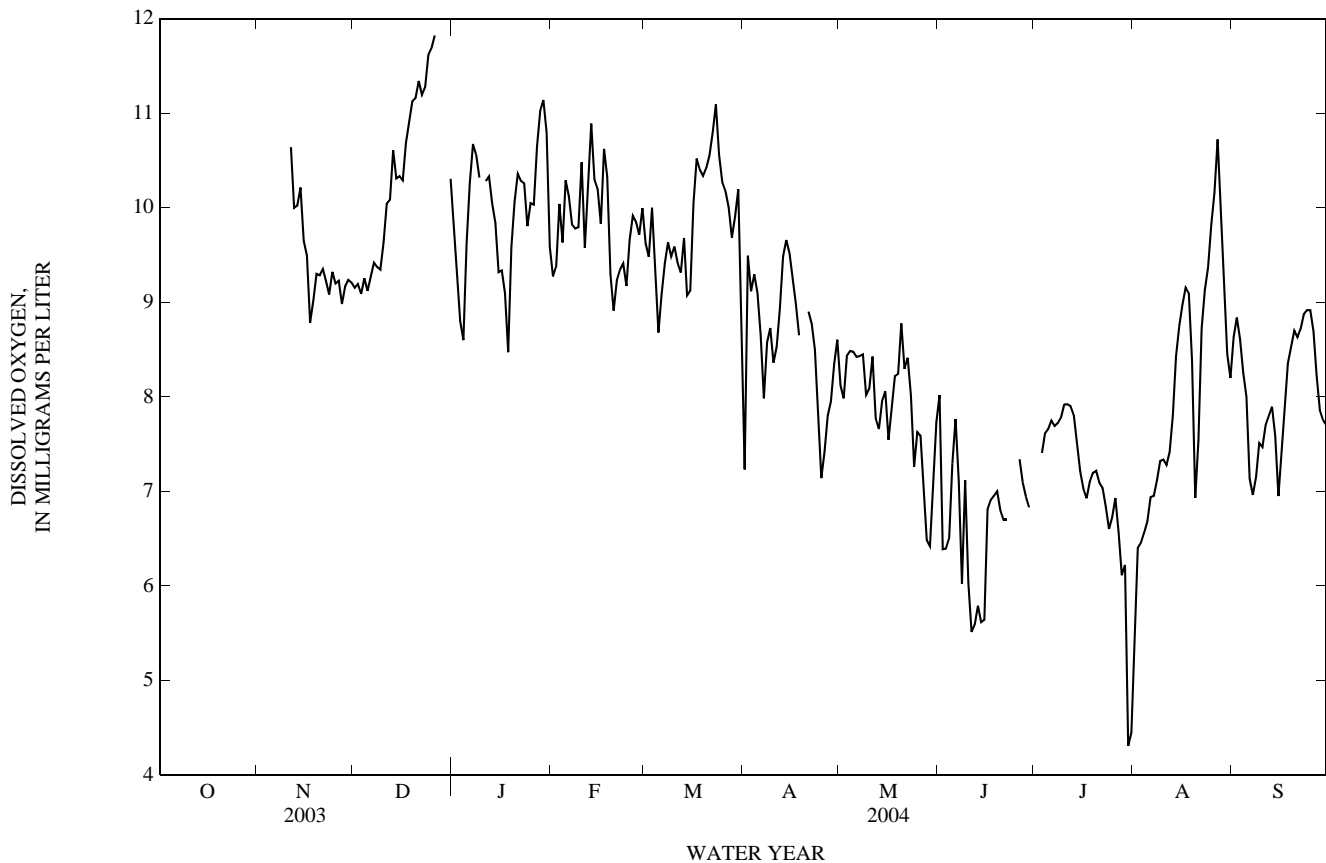
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	9.4	8.8	9.2	10.3	9.2	9.7
2	---	---	---	---	---	---	9.4	9.0	9.2	9.5	8.8	9.2
3	---	---	---	---	---	---	9.3	8.9	9.1	9.1	8.4	8.8
4	---	---	---	---	---	---	9.5	9.0	9.3	9.0	8.4	8.6
5	---	---	---	---	---	---	9.3	8.9	9.1	10.1	9.0	9.6
6	---	---	---	---	---	---	9.7	8.9	9.3	10.7	9.9	10.3
7	---	---	---	---	---	---	9.9	9.2	9.4	10.9	10.5	10.7
8	---	---	---	---	---	---	9.8	9.0	9.4	10.8	10.3	10.6
9	---	---	---	---	---	---	9.6	9.1	9.3	10.7	10.0	10.3
10	---	---	---	---	---	---	10.0	9.1	9.6	10.7	---	---
11	---	---	---	11.1	10.3	10.6	10.4	9.8	10.0	10.8	10.0	10.3
12	---	---	---	10.3	9.8	10.0	10.8	9.7	10.1	10.7	10.0	10.3
13	---	---	---	10.3	9.7	10.0	11.1	10.0	10.6	10.8	9.7	10.0
14	---	---	---	11.0	9.9	10.2	10.6	9.9	10.3	10.3	9.4	9.8
15	---	---	---	10.0	9.2	9.7	10.5	10.1	10.3	9.4	9.1	9.3
16	---	---	---	9.6	9.2	9.5	10.6	9.9	10.3	10.2	8.6	9.3
17	---	---	---	9.5	7.0	8.8	11.0	10.4	10.7	10.1	8.3	9.1
18	---	---	---	9.2	8.1	9.0	11.3	10.5	10.9	9.0	8.2	8.5
19	---	---	---	9.4	9.1	9.3	11.4	10.9	11.1	9.9	9.0	9.6
20	---	---	---	9.4	9.1	9.3	11.4	11.0	11.2	10.3	9.9	10.1
21	---	---	---	9.6	9.2	9.3	11.5	11.1	11.3	10.5	10.3	10.4
22	---	---	---	9.3	9.1	9.2	11.4	11.0	11.2	10.4	10.2	10.3
23	---	---	---	9.4	8.8	9.1	11.6	11.0	11.3	10.4	10.1	10.3
24	---	---	---	9.7	9.0	9.3	11.9	11.3	11.6	10.1	9.4	9.8
25	---	---	---	9.5	9.0	9.2	11.9	11.5	11.7	10.1	9.8	10.0
26	---	---	---	9.5	9.0	9.2	12.1	11.4	11.8	10.3	9.9	10.0
27	---	---	---	9.1	8.8	9.0	---	10.9	---	11.0	10.3	10.6
28	---	---	---	9.4	9.0	9.2	---	10.8	---	11.3	10.8	11.0
29	---	---	---	9.4	9.0	9.2	---	11.0	---	12.0	10.8	11.1
30	---	---	---	9.5	8.9	9.2	---	9.8	---	11.9	9.7	10.8
31	---	---	---	---	---	---	10.7	10.0	10.3	9.8	9.4	9.6
MONTH	---	---	---	---	---	---	---	8.8	---	12.0	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	9.4	8.9	9.3	9.8	9.3	9.6	9.7	4.4	7.2	8.6	7.7	8.1
2	9.6	9.1	9.4	10.0	9.3	9.5	10.4	8.8	9.5	8.3	7.8	8.0
3	10.4	9.3	10.0	10.1	9.8	10.0	9.8	8.6	9.1	8.8	8.1	8.4
4	10.4	9.2	9.6	9.9	8.6	9.3	10.0	8.7	9.3	8.8	8.2	8.5
5	10.4	10.1	10.3	8.9	8.5	8.7	9.6	8.6	9.1	9.0	7.8	8.5
6	10.4	10.0	10.1	9.4	8.7	9.1	9.0	8.4	8.7	9.4	7.2	8.4
7	10.0	9.7	9.8	9.7	9.1	9.4	8.7	7.3	8.0	9.0	7.7	8.4
8	9.9	9.6	9.8	9.9	9.4	9.6	9.5	7.7	8.6	9.2	7.8	8.4
9	10.6	9.4	9.8	9.8	9.2	9.5	9.3	8.3	8.7	8.7	7.5	8.0
10	10.7	9.8	10.5	9.9	9.3	9.6	8.9	7.8	8.4	8.7	7.2	8.1
11	10.0	8.9	9.6	9.6	9.2	9.4	8.8	8.3	8.5	9.0	8.0	8.4
12	10.9	10.0	10.3	9.9	8.9	9.3	9.3	8.6	8.9	8.2	7.4	7.8
13	11.1	10.7	10.9	9.9	9.2	9.7	9.9	9.2	9.5	8.0	7.3	7.7
14	10.7	9.9	10.3	9.3	8.7	9.1	10.2	9.2	9.7	8.3	7.8	8.0
15	10.6	9.7	10.2	9.3	9.0	9.1	10.0	8.9	9.5	8.4	7.5	8.1
16	10.3	9.3	9.8	11.3	8.8	10.0	9.7	8.9	9.3	8.2	6.7	7.5
17	11.0	9.7	10.6	11.2	10.0	10.5	9.5	8.4	9.0	8.6	6.8	7.9
18	10.8	9.7	10.3	11.1	9.8	10.4	9.1	8.3	8.7	8.9	7.7	8.2
19	9.7	8.8	9.3	11.0	9.7	10.3	---	---	---	9.3	7.4	8.2
20	9.4	8.0	8.9	11.1	10.0	10.4	---	---	---	9.9	8.0	8.8
21	9.7	8.7	9.2	11.8	9.7	10.6	9.4	8.5	8.9	9.4	7.4	8.3
22	10.0	8.4	9.3	11.5	10.1	10.8	9.2	8.4	8.8	9.2	7.6	8.4
23	9.9	8.7	9.4	12.1	10.3	11.1	8.8	8.2	8.5	8.5	7.5	8.0
24	9.7	8.9	9.2	11.1	10.1	10.6	8.5	6.9	7.9	8.3	6.5	7.3
25	9.9	9.2	9.7	11.0	9.8	10.3	7.3	6.7	7.1	8.3	6.4	7.6
26	10.1	9.7	9.9	10.7	9.6	10.2	7.7	7.1	7.4	8.6	6.5	7.6
27	9.9	9.7	9.8	10.5	9.6	10.0	8.0	7.6	7.8	8.2	5.5	7.1
28	10.2	9.4	9.7	9.9	9.3	9.7	8.2	7.2	8.0	7.9	5.7	6.5
29	10.2	9.7	10.0	10.6	9.4	9.9	8.8	7.9	8.3	7.1	5.7	6.4
30	---	---	---	11.0	9.6	10.2	8.9	8.0	8.6	7.4	7.0	7.1
31	---	---	---	11.1	4.9	9.1	---	---	---	8.9	6.8	7.7
MONTH	11.1	8.0	9.8	12.1	4.9	9.8	---	---	---	9.9	5.5	7.9

08057055 Trinity River at Cedar Crest Blvd, Dallas, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.3	7.1	8.0	---	---	---	6.6	4.8	5.6	9.3	8.1	8.6
2	7.8	5.4	6.4	7.3	---	---	6.7	6.1	6.4	9.6	8.2	8.8
3	6.7	5.7	6.4	7.7	7.1	7.4	6.7	6.2	6.5	9.1	8.1	8.6
4	6.9	6.3	6.5	7.9	7.4	7.6	6.8	6.4	6.6	8.7	7.8	8.3
5	7.9	6.9	7.3	7.9	7.5	7.7	7.0	6.4	6.7	8.5	7.5	8.0
6	8.1	7.4	7.8	8.0	7.6	7.7	7.2	6.6	6.9	7.9	6.1	7.1
7	7.8	4.8	7.1	7.9	7.5	7.7	7.2	6.7	7.0	7.1	6.9	7.0
8	6.9	4.9	6.0	8.0	7.5	7.7	7.4	6.8	7.1	7.5	6.9	7.2
9	7.4	6.9	7.1	8.1	7.6	7.8	7.5	7.0	7.3	7.8	7.2	7.5
10	6.9	5.6	6.0	8.2	7.7	7.9	7.7	7.1	7.3	8.0	7.0	7.5
11	5.6	5.5	5.5	8.2	7.7	7.9	7.7	6.9	7.3	8.2	7.1	7.7
12	5.8	5.3	5.6	8.2	7.6	7.9	7.7	7.0	7.4	8.5	7.2	7.8
13	5.9	5.6	5.8	8.0	7.6	7.8	8.4	7.2	7.8	8.5	7.3	7.9
14	6.2	5.2	5.6	7.7	7.3	7.5	8.8	8.1	8.4	8.0	7.1	7.6
15	6.6	5.0	5.6	7.5	6.9	7.2	9.1	8.4	8.7	7.4	6.5	7.0
16	7.0	6.5	6.8	7.4	6.7	7.0	9.3	8.8	9.0	7.9	7.0	7.4
17	7.0	6.7	6.9	7.3	6.6	6.9	9.6	8.8	9.2	8.6	7.2	7.9
18	7.1	6.8	7.0	7.6	6.7	7.1	9.6	8.7	9.1	9.2	7.6	8.4
19	7.2	6.9	7.0	7.7	6.8	7.2	9.1	7.1	8.4	9.3	7.8	8.5
20	7.0	6.6	6.8	8.0	6.8	7.2	7.1	6.6	6.9	9.5	8.0	8.7
21	6.9	6.5	6.7	7.6	6.6	7.1	8.2	6.6	7.5	9.2	8.1	8.6
22	6.8	6.2	6.7	7.5	6.8	7.0	9.0	8.2	8.7	9.5	8.0	8.7
23	---	---	---	7.4	6.4	6.8	9.3	8.8	9.1	9.4	8.4	8.9
24	---	---	---	7.1	6.1	6.6	9.8	9.1	9.4	9.8	8.3	8.9
25	---	---	---	7.4	5.9	6.7	10.4	9.4	9.8	9.8	8.4	8.9
26	7.8	7.0	7.3	7.4	6.3	6.9	10.6	9.8	10.2	9.3	8.1	8.7
27	7.2	6.8	7.1	7.1	5.8	6.6	11.5	10.1	10.7	8.7	7.7	8.2
28	7.1	6.8	6.9	7.6	5.1	6.1	11.0	9.5	10.0	8.8	7.2	7.9
29	7.3	6.5	6.8	7.6	4.8	6.2	9.9	8.3	9.3	8.6	7.1	7.8
30	---	---	---	4.8	3.9	4.3	8.9	7.9	8.5	8.5	7.1	7.7
31	---	---	---	4.9	4.1	4.5	8.8	7.4	8.2	---	---	---
MONTH	---	---	---	---	---	---	11.5	4.8	8.1	9.8	6.1	8.1



08057200 White Rock Creek at Greenville Avenue, Dallas, TX

LOCATION.--Lat 32°53'21", long 96°45'23", Dallas County, Hydrologic Unit 12030105, on left bank 20 ft upstream from bridge on Greenville Avenue in Dallas, 1.1 mi downstream from Texas and New Orleans Railroad Co. bridge, 1.2 mi downstream from Cottonwood Creek, 2.9 mi upstream from White Rock Lake, and 8.2 mi northeast of Dallas County Courthouse.

DRAINAGE AREA.--66.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug. 1961 to Sept. 1980, Apr. 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 400 ft above NGVD of 1929. Prior to Oct. 24, 1961, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation. Low flow is affected by diversions from small dams upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	29	32	35	64	187	25	420	140	73	61	30
2	26	29	31	36	112	126	26	55	400	52	50	27
3	26	29	30	35	46	111	31	39	730	45	41	26
4	27	28	28	39	356	795	30	31	35	39	38	25
5	155	51	29	33	278	216	30	23	149	35	33	45
6	55	86	29	30	116	128	52	21	36	44	28	771
7	43	1,050	27	30	95	96	92	18	563	77	25	67
8	37	159	27	29	87	74	46	18	276	40	25	42
9	159	184	27	30	84	65	28	19	680	35	25	34
10	59	91	26	29	80	59	27	16	388	29	22	30
11	45	72	27	28	318	55	32	17	79	27	20	26
12	41	63	409	28	186	49	54	21	80	25	18	26
13	39	55	151	29	106	78	32	17	147	21	18	26
14	35	53	58	28	203	125	24	27	43	20	20	25
15	33	59	47	30	162	60	21	18	31	17	18	61
16	30	55	41	1,710	118	50	20	14	27	19	19	33
17	28	1,340	38	4,190	100	47	18	13	22	15	16	26
18	29	165	35	225	93	45	16	8.9	17	15	15	24
19	30	75	34	160	89	49	16	8.0	444	16	641	22
20	30	57	33	124	85	51	18	6.5	46	14	111	19
21	30	49	32	103	79	46	19	5.9	25	13	56	16
22	29	45	33	84	76	41	18	6.5	94	13	46	17
23	27	102	32	72	287	39	16	6.2	28	13	42	17
24	28	54	32	213	221	26	1,060	6.2	19	14	35	18
25	27	41	32	140	529	32	335	6.1	160	12	28	17
26	26	38	32	71	164	32	61	6.6	198	15	23	18
27	25	36	32	53	128	34	42	1,130	161	13	21	18
28	26	33	127	49	112	35	34	1,060	109	1,270	347	19
29	25	34	49	46	424	33	80	35	1,850	2,350	75	17
30	26	33	36	42	---	23	58	21	222	276	46	16
31	25	---	34	39	---	25	---	14	---	81	34	---
TOTAL	1,248	4,195	1,630	7,790	4,798	2,832	2,361	3,107.9	7,199	4,728	1,997	1,558
MEAN	40.3	140	52.6	251	165	91.4	78.7	100	240	153	64.4	51.9
MAX	159	1,340	409	4,190	529	795	1,060	1,130	1,850	2,350	641	771
MIN	25	28	26	28	46	23	16	5.9	17	12	15	16
AC-FT	2,480	8,320	3,230	15,450	9,520	5,620	4,680	6,160	14,280	9,380	3,960	3,090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004h, BY WATER YEAR (WY)

MEAN	96.3	72.0	101	67.0	103	117	124	156	97.3	40.3	27.3	63.6
MAX	450	388	627	394	516	480	690	460	800	252	108	624
(WY)	(1995)	(2001)	(1992)	(1998)	(2001)	(1995)	(1966)	(1990)	(1989)	(1962)	(1994)	(1964)
MIN	0.83	2.96	4.35	5.85	6.19	12.0	16.6	15.8	7.25	0.78	1.26	0.92
(WY)	(1964)	(1964)	(1964)	(1976)	(1967)	(1971)	(1971)	(1972)	(1980)	(1964)	(1963)	(1963)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

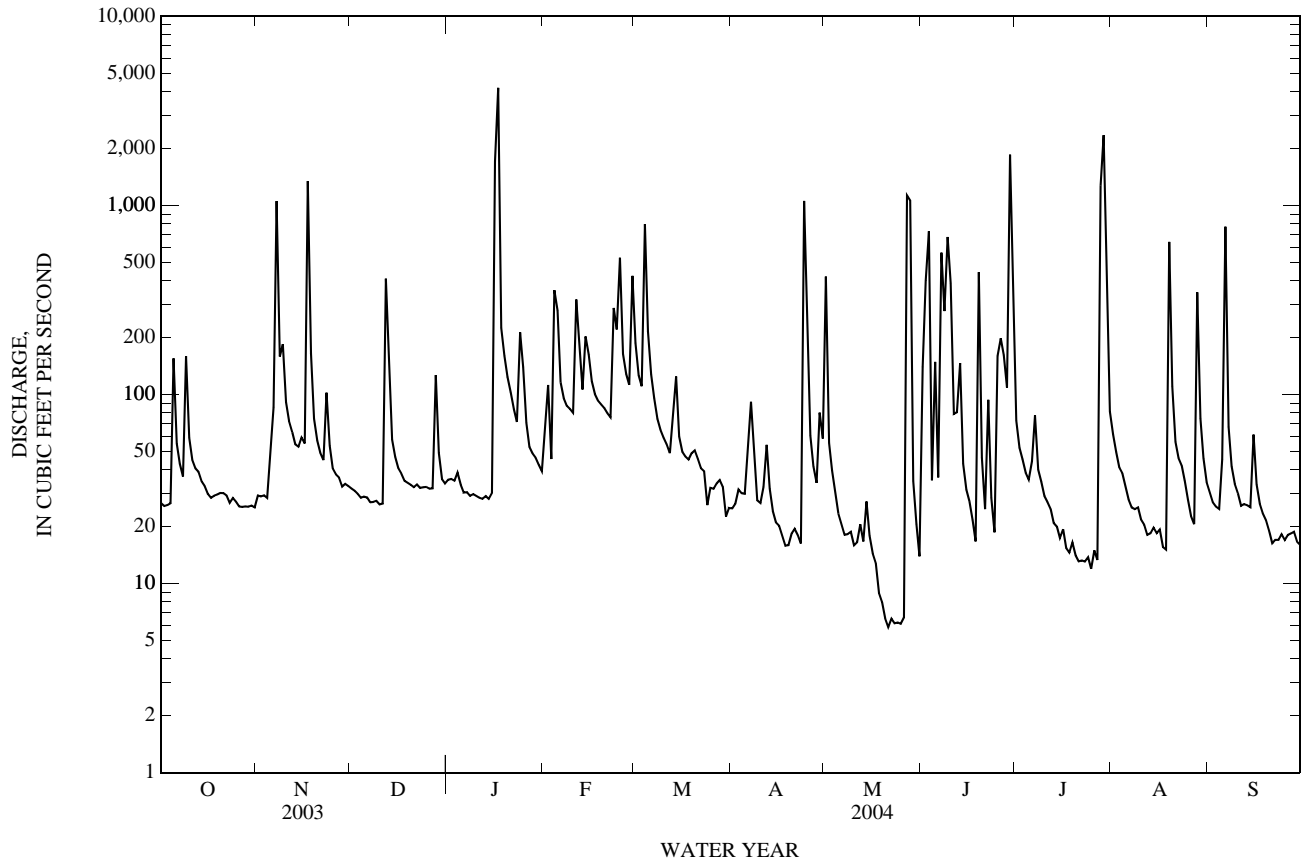
FOR 2004 WATER YEAR

WATER YEARS 1961 - 2004h

ANNUAL TOTAL	40,860.7		43,443.9									
ANNUAL MEAN	112		119							89.5		
HIGHEST ANNUAL MEAN										201		2001
LOWEST ANNUAL MEAN										20.8		1971
HIGHEST DAILY MEAN	3,410	Sep 18					4,190	Jan 17		14,700	Sep 21, 1964	
LOWEST DAILY MEAN	3.5	Aug 7					5.9	May 21		0.01	Jul 8, 1970	
ANNUAL SEVEN-DAY MINIMUM	5.1	Jul 23					6.3	May 20		0.21	Aug 21, 1961	
MAXIMUM PEAK FLOW							22,100	Jan 17		39,200	May 2, 1990	
MAXIMUM PEAK STAGE							88.67	Jan 17		90.59	May 2, 1990	
ANNUAL RUNOFF (AC-FT)	81,050						86,170			64,800		
10 PERCENT EXCEEDS	150						206			127		
50 PERCENT EXCEEDS	49						35			23		
90 PERCENT EXCEEDS	20						17			4.5		

h See PERIOD OF RECORD paragraph.

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued



08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: May 1997 to current year.

PESTICIDE DATA: May 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling method, code (82398)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor- ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)
OCT 08...	0930	10	756	8.3	97	7.8	544	22.4	145	31.2	63.6	<.04	8.60
NOV 14...	1000	10	765	10.1	97	8.0	612	13.8	166	36.0	70.8	<.04	10.1
DEC 09...	0945	10	748	10.2	101	7.9	662	14.2	174	42.6	80.5	<.04	8.95
JAN 09...	1230	10	766	12.7	111	7.2	653	9.7	177	44.1	81.7	<.04	10.0
FEB 09...	0930	10	760	12.1	103	8.1	640	8.3	196	35.2	75.4	<.04	7.13
APR 05...	1500	10	760	10.2	111	8.0	668	19.1	167	49.0	85.1	<.04	9.85
MAY 06...	1030	10	768	9.4	107	8.0	574	21.9	155	34.9	64.7	<.04	7.91
JUN 02...	1200	10	765	8.3	99	7.9	357	24.4	105	18.8	34.1	<.04	3.37
JUL 15...	0845	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	0850	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	0930	10	760	8.8	113	7.6	594	28.2	123	48.5	78.6	<.04	8.66
AUG 17...	1630	10	772	10.3	128	8.0	594	27.2	134	46.7	76.7	<.04	6.21

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
OCT 08...	1.94	1.96	.066	.020	.12	.359	.117	.187	2.58	1.9	.6	1.3	4.1
NOV 14...	2.29	2.31	.056	.017	.05	.607	.198d	.25oc	2.67	.5	<.1	.5	3.2
DEC 09...	2.02	2.04	.066	.020	.11	.641	.209d	.27oc	2.35	.7	<.1	.7	3.5
JAN 09...	2.26	2.28	.049	.015	.06	.816	.266d	.32oc	2.53	.7	<.1	.7	3.3
FEB 09...	1.61	1.63	.079	.024	.08	.297	.097	.144	2.34	.8	<.1	.8	2.6
APR 05...	2.23	2.25	.095	.029	.11	.822	.268d	.35oc	2.80	1.2	<.1	1.2	3.6
MAY 06...	1.79	1.81	.076	.023	.11	.374	.122	.191	2.17	1.1	<.1	1.0	2.8
JUN 02...	.76	.80	.131	.040	.33	.034	.011	.111	1.50	3.6	.3	3.4	4.4
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	1.96	1.99	.102	.031	.23	.770	.251d	.32oc	2.63	1.4	<.1	1.4	4.0
AUG 17...	1.40	1.42	.069	.021	.13	.690	.225d	.27oc	1.84	1.3	<.1	1.3	3.5

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	1,4- Naphth- oquin- one, water, fltrd, ug/L (61611)	1-Naph- thol, water, fltrd 0.7u GF ug/L (49295)	2-(4-t- Butyl- phenoxy)cyclo- hexanol wat flt ug/L (61637)	2,5-Di- chloro- aniline water, fltrd, ug/L (61614)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	2-[(2- Et-6-Me -Ph)- -amino] propan- 1-ol, ug/L (61615)	2Amino- N-iso- propyl- benz- amide, wat flt ug/L (61617)	2Chloro -2,6'- diethyl acet- anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3-(Tri- fluoro- methyl) aniline water, fltrd, ug/L (61630)
OCT 08...	--	--	--	--	--	--	<.006	--	--	--	E.037	--	--
NOV 14...	--	--	--	M	--	--	<.006	<.1	--	<.005	E.039	<.004	--
DEC 09...	--	--	--	--	--	--	<.006	--	--	--	E.012	--	--
JAN 09...	--	--	--	<.09	--	--	<.006	<.1	--	<.005	E.046	<.004	--
FEB 09...	--	--	<.05mc	--u	<.01	<.03	<.006	--	<.005	<.005	E.059	<.004mc	<.01mc
APR 05...	--	--	<.05mc	<.09mc	<.01	<.03	<.006	--	<.005	<.005	E.062	<.004mc	<.01mc
MAY 06...	--	--	<.05mc	<.09mc	<.01	<.03	<.006	--	<.005	<.005	E.066	<.004mc	<.01mc
JUN 02...	--	--	<.05mc	--u	--u	<.03	<.006	--	<.005	<.005	E.036	<.004mc	<.01mc
JUL 15...	16.7	365	--	--	--	--	--	--	--	--	--	--	--
15...	10.3	628	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	<.006	--	--	--	E.051	--	--
AUG 17...	--	--	--	--	--	--	<.006	--	--	--	E.063	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	3,5-Di- chloro- aniline water, fltrd, ug/L (61627)	4,4-Di' chloro- benzo- phen- one, wat flt ug/L (61631)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4Chloro phenyl- methyl sulfone water, fltrd, ug/L (61634)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- Endo- sulfan, water, fltrd, ug/L (34362)	alpha- HCH, water, fltrd, ug/L (34253)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl oxon, water, fltrd, ug/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)
OCT 08...	--	--	--	--	--	<.006	<.004	--	<.005	.241	--	<.050	<.010
NOV 14...	<.008	--	--	E.004	--	<.006	<.005	--	--	.165	<.02	<.050	<.010
DEC 09...	--	--	--	--	--	<.006	<.005	--	<.005	.164	--	<.050	<.010
JAN 09...	.007	--	--	<.006	--	<.006	<.005	--	--	.151	<.02	<.050	<.010
FEB 09...	.006	<.005	<.003mc	<.006mc	<.03mc	<.006	<.005	<.005	<.005	1.55	<.02mc	<.050	<.010
APR 05...	<.004	<.005	<.003mc	<.006mc	<.03mc	<.006	.008	<.005	<.005	.543	<.02mc	<.050	<.010
MAY 06...	<.004	<.005	<.003mc	E.010mc	<.03mc	<.006	.009	<.005	<.005	.509	<.02mc	<.050	<.010
JUN 02...	<.004	<.005	<.003mc	--u	<.01mc	<.006	.008	<.005	<.005	.445	<.02mc	<.050	<.010
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	<.006	<.005	--	<.005	.262	--	<.050	<.010
AUG 17...	--	--	--	--	--	<.006	<.005	--	<.005	.261	--	<.050	<.010

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	beta-Endo-sulfan, water, fltrd, ug/L (34357)	Bifen-thrin, water, fltrd, ug/L (61580)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd, 0.7u GF ug/L (82687)	cis-Propi-cona-zole, water, fltrd, ug/L (79846)	Cyana-zine, water, fltrd, ug/L (04041)	Cyclo-ate, water, fltrd, ug/L (04031)	Cyflu-thrin, water, fltrd, ug/L (61585)	lambda-Cyhalo-thrin, water, fltrd, ug/L (61595)
OCT 08...	--	--	<.002	E.028n	<.020	--	<.005	<.006	--	<.018	--	--	--
NOV 14...	--	--	--	E.021t	--	<.06	<.005	<.006	--	--	--	<.008	--
DEC 09...	--	--	<.004	E.010t	<.020	--	<.005	<.006	--	<.018	--	--	--
JAN 09...	--	--	--	E.025n	--	<.06	<.005	<.006	--	--	--	<.008	--
FEB 09...	<.01mc	<.005mc	<.004	<.041	<.020	<.06mc	<.005	<.006	<.008	<.018	<.005	<.008mc	<.009
APR 05...	<.01mc	<.005mc	<.004	E.008t	<.020	<.06mc	<.005	<.006	<.008	<.018	<.005	<.008mc	<.009
MAY 06...	<.01mc	<.005mc	<.004	E.017t	<.020	<.06mc	<.005	<.006	<.008	<.018	<.005	<.008mc	<.009
JUN 02...	<.01mc	<.005mc	<.020	E.075	<.020	<.06mc	.007	<.006	<.008	<.018	<.005	<.008mc	<.009
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	<.004	<.041	<.020	--	<.005	<.006	--	<.018	--	--	--
AUG 17...	--	--	<.004	<.041	<.020	--	<.005	<.006	--	<.018	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Cyper-methrin water, fltrd, ug/L (61586)	DCPA, water, fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)	Dicro-topphos, water, fltrd, ug/L (38454)	Diel-drin, water, fltrd, ug/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF ug/L (82662)	Disulf-oton sulfone water, fltrd, ug/L (61640)	Disulf-oton sulf-oxide, water, fltrd, ug/L (61641)	Disul-foton, water, fltrd, 0.7u GF ug/L (82677)	(E)-Di-metho-morph, water, fltrd, ug/L (79844)	Endo-sulfan ether, water, fltrd, ug/L (61642)
OCT 08...	--	<.003	.005	--	.045	--	<.005	--	--	--	<.02	--	--
NOV 14...	<.009	<.003	E.004t	<.01	.017	<.08	<.009	<.006	--	--	--	--	--
DEC 09...	--	<.003	.012	--	.033	--	<.009	--	--	--	<.02	--	--
JAN 09...	<.009	<.003	<.012	<.01	.009	<.08	<.009	<.006	--	--	--	--	--
FEB 09...	<.009mc	.004	<.012	--	.011	<.08mc	<.009	<.006mc	<.02	<.002mc	<.02	<.02	<.004
APR 05...	<.009mc	.003	.062	--	.013	<.08mc	<.009	<.006mc	<.02	<.002mc	<.02	<.02	<.004
MAY 06...	<.009mc	.003	E.009n	--	.029	<.08mc	<.009	<.006mc	<.02	<.002mc	<.02	<.02	<.004
JUN 02...	<.009mc	E.002t	E.010n	--	.063	<.08mc	<.009	<.006mc	<.02	<.002mc	<.02	<.02	<.004
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	<.003	E.006n	--	.007	--	<.009	--	--	--	<.02	--	--
AUG 17...	--	<.003	E.006n	--	.018	--	<.009	--	--	--	<.02	--	--

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Fen- thion sulf- oxide, water, fltrd, ug/L (61647)	Fen- thion, water, fltrd, ug/L (38801)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)
OCT 08...	--	<.002	<.009	--	--	<.005	--	--	--	--	--	E.006	<.005
NOV 14...	--	--	--	<.03	<.004	--	<.008	<.03	<.03	--	--	E.007t	E.004t
DEC 09...	--	<.004	<.009	--	--	<.005	--	--	--	--	--	<.029	E.003t
JAN 09...	--	--	--	<.03	<.004	--	<.008	<.03	<.03	--	--	<.029	<.013
FEB 09...	<.006	<.004	<.009	<.03mc	<.004	<.005	<.008	<.03mc	<.03	<.008mc	<.02	E.007t	E.004t
APR 05...	<.006	<.004	<.009	<.03mc	<.004	<.005	<.008	<.03mc	<.03	<.008mc	<.02	E.011t	E.005t
MAY 06...	<.006	<.004	<.009	<.03mc	<.004	<.005	<.008	<.03mc	<.03	<.008mc	<.02	E.008t	E.005t
JUN 02...	<.006	<.004	<.009	<.03mc	<.004	<.019	<.008	<.03mc	<.03	<.008mc	<.02	E.008t	E.004t
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	<.004	<.009	--	--	<.005	--	--	--	--	--	E.009t	<.013
AUG 17...	--	<.004	<.009	--	--	<.005	--	--	--	--	--	E.010t	E.002t

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flume- tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexa- zinone, water, fltrd, ug/L (04025)	Ipro- dione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- oxon, water, fltrd, ug/L (61652)	Mala- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)
OCT 08...	.007	E.014	--	--	<.003	--	--	--	<.004	<.035	--	E.022n	--
NOV 14...	<.024	E.011n	--	<.002	<.003	<.013	<1	<.003	--	--	<.008	<.027	<.006
DEC 09...	E.007t	E.045	--	--	<.003	--	--	--	<.004	<.035	--	<.027	--
JAN 09...	<.024	E.009n	--	<.002	<.003	<.013	<1	<.003	--	--	<.008	<.027	<.005
FEB 09...	E.007t	E.018	<.004	<.002mc	<.003	<.013	<1mc	<.003	<.004	<.035	<.008	<.027	<.005
APR 05...	E.011t	E.082	<.004	<.002mc	<.003	<.013	<1mc	<.003	<.004	<.035	<.008	<.027	<.005
MAY 06...	E.007t	E.014n	<.004	<.002mc	<.003	<.013	<1mc	<.003	<.004	<.035	<.008	<.027	<.005
JUN 02...	E.015n	E.046	<.004	<.002mc	<.003	<.013	<1mc	<.003	<.004	<.035	<.008	.029	<.005
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	E.005t	E.004t	--	--	<.003	--	--	--	<.004	<.035	--	<.027	--
AUG 17...	E.006t	<.016	--	--	<.003	--	--	--	<.004	<.035	--	<.027	--

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Methi- althion water, fltrd, ug/L (61598)	c-Per- methric acid methyl ester, wat flt ug/L (79842)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	t-Per- methric acid methyl ester, wat flt ug/L (79843)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	O-Et-O- Me-S-Pr -phos- phor- thioate wat flt ug/L (61660)	Oxy- fluor- fen, water, fltrd, ug/L (61600)	p,p'- DDE, water, fltrd, ug/L (34653)
OCT 08...	--	--	--	<.006	--	E.007n	<.006	<.002	--	<.007	--	--	<.003
NOV 14...	<.006	--	<.03	<.015	--	<.013	<.006	--	<.008	--	--	--	--
DEC 09...	--	--	--	<.015	--	E.004t	<.006	<.003	--	<.007	--	--	<.003
JAN 09...	<.006	--	<.03	<.015	--	E.005t	<.006	--	<.008	--	--	--	--
FEB 09...	<.006	<.04	<.03mc	<.015	<.03	<.013	<.006	<.003	<.008	<.007	<.008	<.007	<.003
APR 05...	<.006	<.04	<.03mc	<.015	<.03	E.010n	<.006	<.003	<.008	<.007	<.008	<.007	<.003
MAY 06...	<.006	<.04	<.03mc	<.015	<.03	.143	<.006	<.003	<.008	<.007	<.008	<.007	<.003
JUN 02...	<.006	<.04	<.03mc	<.015	<.03	.106	<.006	<.003	.025	<.007	<.008	<.007	<.003
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	<.015	--	E.012n	<.006	<.003	--	<.007	--	--	<.003
AUG 17...	--	--	--	<.015	--	E.010n	<.006	<.003	--	<.007	--	--	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Para- oxon, water, fltrd, ug/L (61663)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Phoste- bupirim water, fltrd, ug/L (61602)	Pro- fenofos water, fltrd, ug/L (61603)	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)
OCT 08...	--	<.010	<.004	.032	--	<.011	--	--	--	--	E.01n	--	<.004
NOV 14...	--	--	--	.024	<.10	<.011	<.06	<.008	--	--	.02	<.005	<.004
DEC 09...	--	<.010	<.004	E.009t	--	<.011	--	--	--	--	.01	--	<.004
JAN 09...	--	--	--	<.022	<.10	<.011	<.06	<.008	--	--	.01	<.005	.019
FEB 09...	<.008	<.010	<.004	.042	<.10mc	<.011	--u	--u	<.005	<.006	.01	<.005	.058
APR 05...	<.008	<.010	<.004	E.021n	<.10mc	<.011	<.06mc	<.008mc	<.005	<.006	.02	<.005	.011
MAY 06...	<.008	<.010	<.004	.024	<.10mc	<.011	<.06mc	<.008mc	<.005	<.006	.02	<.005	<.004
JUN 02...	<.008	<.010	<.004	.035	<.10mc	<.011	<.06mc	<.008mc	<.005	<.006	.02	<.005	E.015
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	<.010	<.004	<.022	--	<.011	--	--	--	--	.02	--	<.010
AUG 17...	--	<.010	<.004	<.022	--	<.011	--	--	--	--	.01	--	<.004

08057200 White Rock Creek at Greenville Avenue, Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Propetamphos, water, fltrd, ug/L (61604)	Simazine, water, fltrd, ug/L (04035)	Sulfo-tepp, water, fltrd, ug/L (61605)	Sulprophos, water, fltrd, ug/L (38716)	Tebu-pirim-phos oxon, water, fltrd, ug/L (61669)	Tebu-thiuron water, fltrd, 0.7u GF ug/L (82670)	Teflu-thrin, water, fltrd, ug/L (61606)	Temephos, water, fltrd, ug/L (61607)	Terbacil, water, fltrd, 0.7u GF ug/L (82665)	Terbufos oxon sulfone water, fltrd, ug/L (61674)
OCT 08...	<.010	<.011	<.02	--	1.31	--	--	--	<.02	--	--	<.034	--
NOV 14...	--	--	--	--	1.48	--	--	--	<.02	--	--	--	<.07
DEC 09...	<.025	<.011	<.02	--	.938	--	--	--	Mt	--	--	<.075	--
JAN 09...	--	--	--	--	.418	--	--	--	<.02	--	--	--	<.07
FEB 09...	<.025	<.011	<.02	<.004	.795	<.003mc	<.02mc	<.006	<.02	<.008mc	<.3mc	<.034	<.07
APR 05...	<.025	<.011	<.02	<.004	.279	<.003mc	<.02mc	<.006	<.02	<.008mc	<.3mc	<.034	<.07
MAY 06...	<.025	<.011	<.02	<.004	.307	<.003mc	<.02mc	<.006	<.02	<.008mc	<.3mc	<.034	<.07
JUN 02...	<.025	<.011	<.03	<.004	.187	<.003mc	<.02mc	<.006	<.02	<.008mc	<.3mc	<.034	<.07
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	<.025	<.011	<.02	--	.056	--	--	--	<.02	--	--	<.034	--
AUG 17...	<.025	<.011	<.02	--	.055	--	--	--	<.02	--	--	<.034	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Terbutylazine, water, fltrd, ug/L (04022)	Thiocarbazole, water, fltrd, 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Triallate, water, fltrd, 0.7u GF ug/L (82678)	Tribu-phos, water, fltrd, ug/L (61610)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	(Z)-Dimethomorph, water, fltrd, ug/L (79845)	Dichlorvos, water, fltrd, ug/L (38775)	Suspended sediment concentration mg/L (80154)	Sampler type, code (84164)
OCT 08...	<.02	--	<.005	--	<.002	--	<.009	--	--	21	3045
NOV 14...	<.02	<.01	--	--	--	--	<.009	--	<.01	6	3045
DEC 09...	<.02	--	<.010	--	<.002	--	<.009	--	--	5	3045
JAN 09...	<.02	<.01	--	--	--	--	<.009	--	<.01	5	3045
FEB 09...	<.02	<.01	<.010	<.01	<.002	<.004mc	<.009	<.05	<.01mc	71	3045
APR 05...	<.02	<.01	<.010	<.01	<.002	<.004mc	<.009	<.05	<.01mc	23	3045
MAY 06...	<.02	<.01	<.010	<.01	<.002	<.004mc	<.009	<.05	<.01mc	12	3045
JUN 02...	<.02	<.01	<.010	<.01	<.002	<.004mc	<.009	<.05	<.01mc	25	3045
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	<.02	--	<.010	--	<.002	--	<.009	--	--	4	3045
AUG 17...	<.02	--	<.010	--	<.002	--	<.009	--	--	7	3045

Remark codes used in this table:

< -- Less than

E -- Estimated value

M-- Presence verified, not quantified

Value qualifier codes used in this table:

c -- See laboratory comment

d -- Diluted sample: method hi range exceeded

m -- Value is highly variable by this method

n -- Below the LRL and above the LT-MDL

o -- Result determined by alternate method

t -- Below the long-term MDL

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

08057410 Trinity River below Dallas, TX

LOCATION.--Lat 32°42'27", long 96°44'08", Dallas County, Hydrologic Unit 12030105, on left bank at downstream side of bridge on South Loop Highway 12, 1.0 mi downstream from White Rock Creek, 1.5 mi upstream from Fivemile Creek, 6.4 mi southeast of Dallas County courthouse in Dallas, and at mile 491.8.

DRAINAGE AREA.--6,278 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Nov. 1956 to Sept. 1998, Oct. 2002 to current year.

REVISED RECORDS.--WDR TX-94-1: 1989.

GAGE.--Water-stage recorder. Datum of gage is 365.89 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Nov. 1956, at least 10% of contributing drainage area has been regulated. Several cities within the Dallas-Fort Worth metroplex divert water for municipal use and return it to the river as wastewater effluents above this station. Low flows are sustained by wastewater effluents.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 25, 1908, reached a stage of 41.1 ft, from information by U.S. Army Corps of Engineers, and is the highest since that date. Floods in 1866 and 1908 reached about the same stage at Dallas.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	696	594	719	803	1,070	5,400	1,200	e5,810	e1,010	e11,300	10,100	1,870
2	702	634	801	712	1,740	2,750	1,050	e7,130	e3,940	9,740	7,270	1,350
3	774	684	777	707	2,290	2,550	1,030	e4,010	e8,370	e7,770	7,920	1,270
4	769	725	794	816	1,470	e3,010	1,020	e2,230	e7,720	e6,630	7,980	1,110
5	976	639	723	934	e4,880	e6,500	1,000	2,140	3,940	e6,900	7,990	964
6	1,690	852	702	832	3,170	5,750	1,110	2,050	2,750	6,980	7,870	1,990
7	1,360	1,760	621	767	1,540	3,020	1,450	1,940	4,140	e5,960	6,380	2,810
8	1,070	4,210	682	701	1,260	2,520	1,620	1,900	9,260	e6,230	4,240	1,410
9	1,510	3,200	745	658	1,380	e2,380	1,250	2,190	10,800	e5,690	3,780	1,460
10	1,800	1,900	743	622	1,810	2,260	1,110	1,960	15,200	6,270	3,740	956
11	1,580	1,190	685	650	1,950	1,900	1,100	e1,960	21,400	e5,220	3,720	888
12	1,790	995	1,160	688	3,300	1,450	1,220	e2,520	22,500	e5,010	3,240	864
13	1,100	941	3,600	665	2,930	2,080	1,240	1,530	21,800	e4,100	2,960	848
14	1,680	769	2,080	633	1,770	2,000	1,160	1,570	18,500	4,020	2,030	860
15	1,410	719	1,160	622	2,130	1,950	1,080	1,510	14,200	3,300	1,740	1,360
16	759	744	1,030	2,400	1,830	1,540	1,030	1,170	11,600	3,010	e1,740	1,160
17	776	1,360	923	11,900	2,090	1,390	982	1,620	10,400	2,240	e1,410	968
18	789	4,510	878	13,000	1,710	1,310	964	1,080	9,530	2,220	e738	870
19	788	2,530	863	5,620	1,220	1,330	950	1,050	9,150	2,180	e2,340	816
20	747	1,220	803	1,800	1,210	1,670	921	1,050	9,370	2,100	e9,700	855
21	724	1,010	777	1,390	1,120	1,210	943	1,010	9,460	2,080	6,050	771
22	697	933	823	1,260	1,100	1,240	945	962	8,900	2,060	1,800	721
23	680	946	856	1,250	2,030	1,160	950	989	8,380	1,800	1,540	618
24	650	1,110	805	1,220	3,910	1,120	e4,320	992	8,020	e1,210	1,460	563
25	665	987	731	1,940	7,050	1,140	e6,780	980	7,850	e1,010	1,960	496
26	714	887	696	1,550	8,890	1,140	e6,870	959	8,480	e1,010	1,730	455
27	692	848	733	1,220	3,850	1,110	2,700	973	10,300	1,320	1,570	506
28	690	784	997	1,140	2,020	e1,000	1,650	5,050	11,600	e1,540	3,130	528
29	669	671	1,330	1,300	3,350	e1,220	1,680	5,410	11,600	e14,500	5,120	486
30	590	634	1,020	1,300	---	e1,040	e2,150	e2,780	13,200	22,400	2,440	489
31	607	---	893	1,060	---	1,180	---	e1,010	---	17,300	1,640	---
TOTAL	30,144	38,986	30,150	60,160	74,070	65,320	51,475	67,535	313,370	173,100	125,328	30,312
MEAN	972	1,300	973	1,941	2,554	2,107	1,716	2,179	10,450	5,584	4,043	1,010
MAX	1,800	4,510	3,600	13,000	8,890	6,500	6,870	7,130	22,500	22,400	10,100	2,810
MIN	590	594	621	622	1,070	1,000	921	959	1,010	1,010	738	455
AC-FT	59,790	77,330	59,800	119,300	146,900	129,600	102,100	134,000	621,600	343,300	248,600	60,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004h, BY WATER YEAR (WY)

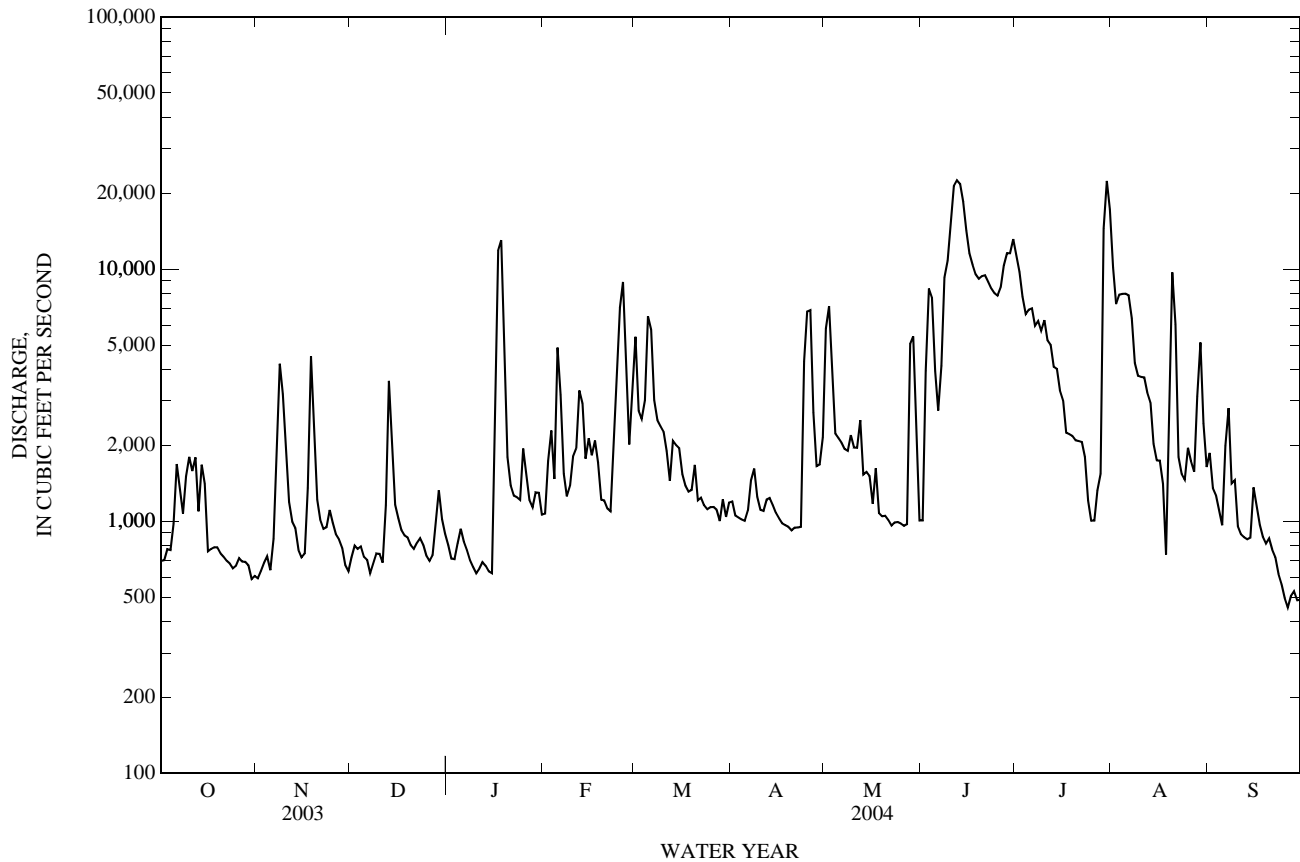
MEAN	1,716	1,928	2,035	1,686	2,207	2,818	2,778	4,759	3,869	1,766	1,118	1,082
MAX	10,220	14,350	14,010	15,370	11,750	11,010	10,010	29,980	17,720	9,145	5,963	7,521
(WY)	(1982)	(1982)	(1992)	(1992)	(1992)	(1997)	(1990)	(1989)	(1989)	(1989)	(1982)	(1962)
MIN	268	231	228	178	265	316	373	432	316	330	228	259
(WY)	(1964)	(1957)	(1957)	(1957)	(1957)	(1959)	(1959)	(1961)	(1960)	(1964)	(1959)	(1959)

08057410 Trinity River below Dallas, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004 ^h	
ANNUAL TOTAL	497,618		1,059,950		2,273	
ANNUAL MEAN	1,363		2,896		7,319	
HIGHEST ANNUAL MEAN					383	
LOWEST ANNUAL MEAN					1959	
HIGHEST DAILY MEAN	10,300	Jun 14	22,500	Jun 12	79,200	May 4, 1990
LOWEST DAILY MEAN	471	Aug 2	455	Sep 26	131	Dec 9, 1956
ANNUAL SEVEN-DAY MINIMUM	474	Aug 1	503	Sep 24	147	Dec 7, 1956
MAXIMUM PEAK FLOW			23,300	Jul 30	87,000	May 4, 1990
MAXIMUM PEAK STAGE			27.25	Jul 30	34.79	May 4, 1990
ANNUAL RUNOFF (AC-FT)	987,000		2,102,000		1,647,000	
10 PERCENT EXCEEDS	2,660		7,880		6,230	
50 PERCENT EXCEEDS	897		1,370		759	
90 PERCENT EXCEEDS	603		702		366	

h See PERIOD OF RECORD paragraph.

e Estimated



08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to current year.

BIOCHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to current year.

PESTICIDE DATA: Oct. 1970 to July 1981, Oct. 1994 to Sept. 1998, Oct. 2001 to current year.

SEDIMENT DATA: Apr. 1972 to Apr. 1975, Oct. 1998 to current year. Water-discharge records: Nov. 1956 to Sept. 1998.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.

pH: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.

WATER TEMPERATURE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.

DISSOLVED OXYGEN: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,130 microsiemens/cm, Dec. 17, 1977; minimum, 112 microsiemens/cm, Oct. 20, 1984.

pH: Maximum, 8.8 standard units, Jan. 23, 1980; minimum, 6.5 standard units, Jan. 1, 2, 4, and 5, 1997.

WATER TEMPERATURES: Maximum, 35.0°C, Aug. 20, 25, 28, 31, 1972; minimum, 1.0°C, Jan. 29, 1968.

DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Mar. 19, 1990; minimum, 0.0 mg/L, on many days during spring and summer of 1977-1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible][illegible]

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sampler type, code (84164)
OCT 09...	<.002	<.009	83	3053
DEC 08...	<.002	<.009	23	3053
JAN 12...	--	--	13	3053
FEB 10...	<.002	<.009	70	3053
APR 05...	<.002	<.009	57	3053
MAY 04...	<.002	<.009	95	3053
JUN 09...	<.002	<.009	310	3053
JUL 20...	<.002	<.009	101	3053
AUG 17...	<.002	<.009	180	3053
18...	--	--	--	--

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
t -- Below the long-term MDL

08057445 Prairie Creek at U.S. Highway 175, Dallas, TX

LOCATION.--Lat 32°42'17", long 96°40'11", Dallas County, Hydrologic Unit 12030105, on left bank at downstream side of the downstream access road bridge on U.S. Highway 175, 3.4 mi upstream from mouth, and 9.0 mi southeast of Dallas City Hall.

DRAINAGE AREA.--9.03 mi².

PERIOD OF RECORD.--Oct. 1975 to Sept. 1980, Apr. 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 390.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	0.41	0.29	1.4	0.77	15	0.30	374	34	18	8.7	0.19
2	8.0	0.26	0.30	1.5	17	17	0.39	29	86	4.6	7.5	0.11
3	1.3	0.24	0.34	1.3	3.0	30	0.96	9.5	99	4.0	6.2	0.09
4	0.53	0.24	0.28	1.2	36	127	0.36	5.9	7.9	3.3	5.2	0.11
5	1.1	0.22	0.20	1.1	108	38	0.29	4.5	2.8	0.90	4.6	0.11
6	3.9	0.17	0.20	1.00	11	5.9	0.69	4.0	1.1	0.39	4.0	0.11
7	3.0	30	0.33	1.0	3.8	2.4	4.2	3.6	0.71	0.50	3.5	0.10
8	0.88	18	0.48	1.1	2.0	0.95	1.00	3.2	42	0.55	2.9	0.09
9	25	17	0.53	0.99	1.5	0.65	0.45	2.7	70	0.37	2.9	0.10
10	6.4	2.9	0.48	0.90	1.3	0.58	0.33	2.5	160	0.25	2.2	0.10
11	0.66	0.48	0.54	0.96	82	0.55	0.25	11	15	0.15	1.7	0.10
12	0.28	0.23	55	1.1	38	0.55	0.64	26	4.7	0.12	1.3	0.09
13	0.24	0.17	40	1.3	6.8	0.96	1.7	3.8	2.4	0.11	1.2	0.09
14	0.19	0.10	1.8	0.65	23	50	0.61	3.1	1.2	0.09	0.84	0.10
15	0.18	0.10	0.36	1.1	22	7.3	0.41	4.1	0.78	0.06	0.47	0.14
16	0.18	0.19	0.15	208	7.1	2.3	0.32	1.3	0.73	0.06	0.32	0.11
17	0.15	86	0.10	236	3.5	0.84	0.29	0.66	0.58	0.07	0.19	0.11
18	0.12	32	0.07	14	2.3	0.84	0.26	0.59	0.46	0.06	0.15	0.08
19	0.12	1.3	0.04	9.1	2.1	0.85	0.27	0.54	13	0.07	70	0.08
20	0.68	0.27	0.04	3.1	2.0	7.1	0.24	0.50	20	0.07	16	0.07
21	4.1	0.30	0.06	1.7	1.7	1.4	0.43	0.48	2.3	0.06	3.0	0.07
22	0.63	0.33	0.30	1.2	1.4	0.54	0.80	0.47	0.65	0.06	1.1	0.07
23	0.30	0.40	0.45	0.93	27	0.52	1.1	0.49	0.35	0.06	0.72	0.08
24	0.28	0.38	0.63	7.6	61	0.53	195	0.50	0.28	0.07	0.46	0.12
25	0.20	0.57	0.66	16	230	0.60	159	0.48	0.41	0.14	0.24	0.14
26	0.17	0.51	0.62	2.5	20	0.67	21	0.54	24	0.08	0.23	0.13
27	0.17	0.45	0.66	0.93	6.1	2.2	5.0	3.5	167	0.08	0.26	0.12
28	0.18	0.31	0.73	0.67	3.2	44	2.4	32	31	72	2.1	0.11
29	0.28	0.29	0.78	0.64	51	22	24	2.0	24	1,500	4.5	0.12
30	0.94	0.29	0.96	0.66	---	2.0	17	11	73	48	1.3	0.12
31	1.4	---	1.1	0.60	---	0.46	---	12	---	15	0.51	---
TOTAL	92.56	194.11	108.48	520.23	774.57	383.69	439.69	553.95	885.35	1,669.27	154.29	3.16
MEAN	2.99	6.47	3.50	16.8	26.7	12.4	14.7	17.9	29.5	53.8	4.98	0.11
MAX	31	86	55	236	230	127	195	374	167	1,500	70	0.19
MIN	0.12	0.10	0.04	0.60	0.77	0.46	0.24	0.47	0.28	0.06	0.15	0.07
AC-FT	184	385	215	1,030	1,540	761	872	1,100	1,760	3,310	306	6.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004h, BY WATER YEAR (WY)

MEAN	12.1	8.58	11.1	7.22	12.1	11.5	11.8	16.4	10.5	5.76	2.50	3.48
MAX	46.3	43.1	40.2	19.8	41.6	27.0	42.2	72.4	51.1	53.8	15.3	10.4
(WY)	(1995)	(1995)	(1999)	(1990)	(1997)	(2001)	(1990)	(1989)	(2000)	(2004)	(2001)	(2001)
MIN	0.00	0.33	0.42	0.12	0.34	1.28	0.66	0.64	0.32	0.00	0.00	0.00
(WY)	(1976)	(1990)	(1978)	(1976)	(1976)	(1996)	(1978)	(1977)	(1978)	(1980)	(1980)	(2000)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

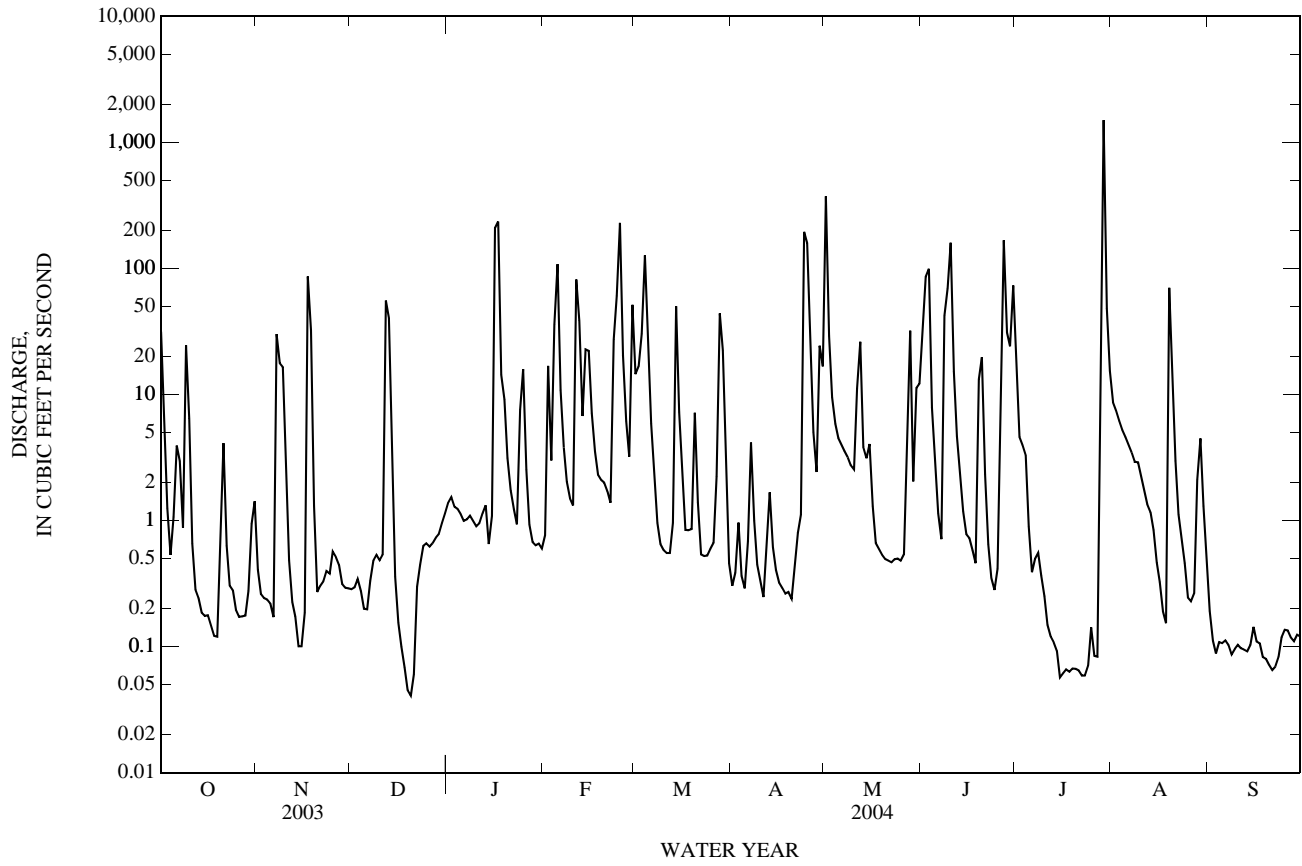
FOR 2004 WATER YEAR

WATER YEARS 1976 - 2004h

ANNUAL TOTAL	2,687.22	5,779.35	
ANNUAL MEAN	7.36	15.8	9.55
HIGHEST ANNUAL MEAN			17.4
LOWEST ANNUAL MEAN			1.61
HIGHEST DAILY MEAN	263	May 25	1,500
LOWEST DAILY MEAN	0.04	Dec 19	0.00
ANNUAL SEVEN-DAY MINIMUM	0.08	Jul 13	0.00
MAXIMUM PEAK FLOW			7,050
MAXIMUM PEAK STAGE			30.51
ANNUAL RUNOFF (AC-FT)	5,330	11,460	6,920
10 PERCENT EXCEEDS	19	30	12
50 PERCENT EXCEEDS	0.88	0.82	1.0
90 PERCENT EXCEEDS	0.13	0.11	0.02

h See PERIOD OF RECORD paragraph.

08057445 Prairie Creek at U.S. Highway 175, Dallas, TX—Continued



08058900 East Fork Trinity River at McKinney, TX

LOCATION.--Lat 33°14'38", long 96°36'31", Collin County, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State Highway 5 and 121, 750 ft downstream from Honey Creek, 1.2 mi upstream from Southern Pacific Railway Co. bridge, 1.7 mi upstream from Clemons Creek, 3.3 mi north of McKinney, 26.1 mi upstream from Lavon Dam, and 86.5 mi upstream from mouth.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--Oct. 1975 to current year. Water-quality records: Chemical data: Oct. 1980 to Sept. 1982, Oct. 1985 to July 1987, Apr. 1993 to Sept. 1995. Biochemical data: Oct. 1980 to Sept. 1982, Oct. 1985 to July 1987, Apr. 1993 to Sept. 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 528.74 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for Oct. 1 to Jan. 27, and Apr. 8 to Jul. 9, which are fair. Estimated daily discharges are rated poor. Since installation of gage in Oct. 1975, at least 10% of contributing drainage area has been regulated. Small diversions for irrigation above the station are made at times. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, about 28 ft in Apr. 1942 (discharge not determined), from information by Texas Department of Transportation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	0.00	e0.11	0.08	5.0	92	28	12	0.39	320	50	0.20
2	e0.00	0.00	e0.05	0.09	6.7	80	28	11	1.0	205	34	0.12
3	e0.00	0.00	e0.03	0.10	5.6	70	28	5.7	20	202	25	0.08
4	e0.00	0.00	0.01	0.10	9.1	222	25	3.0	13	176	19	0.01
5	e0.00	0.00	e0.01	0.11	35	492	24	2.1	11	117	12	0.00
6	0.00	e0.04	e0.01	0.11	35	177	23	1.2	15	85	6.0	0.00
7	0.00	e1.22	e0.00	0.14	20	110	29	0.44	163	68	3.4	0.00
8	0.00	e2.40	e0.00	0.16	16	78	27	0.28	123	52	3.5	0.00
9	0.00	e3.58	e0.00	0.17	15	62	22	0.22	326	42	3.0	0.00
10	0.00	e3.90	e0.00	0.18	13	53	22	0.18	387	35	1.8	0.00
11	0.00	e3.82	e0.00	0.20	27	50	21	0.25	189	29	1.3	0.00
12	0.00	e3.71	e0.02	0.23	59	44	22	0.36	91	24	0.91	2.6
13	0.00	e3.67	0.10	0.31	43	41	20	0.22	52	21	0.55	0.00
14	0.00	e3.62	0.02	0.40	31	142	18	0.14	34	19	0.23	0.00
15	0.00	e3.65	0.00	0.47	36	114	17	0.13	24	16	0.13	0.00
16	0.00	e3.63	0.00	14	40	82	17	0.09	18	14	0.08	0.00
17	0.00	e34	0.00	252	41	65	18	0.08	13	13	0.05	0.00
18	0.00	25	0.00	70	34	57	18	0.08	10	12	0.02	0.00
19	0.00	0.92	0.00	28	28	48	17	0.06	62	10	9.1	0.00
20	0.00	e0.86	0.01	25	25	42	17	0.10	99	10	24	0.00
21	0.00	e0.80	0.01	22	22	38	18	0.06	60	8.6	22	0.00
22	0.00	e0.74	0.01	17	18	33	18	0.07	53	7.9	14	0.00
23	0.00	e0.76	0.01	15	18	32	17	0.09	91	8.3	9.0	0.00
24	0.00	e0.68	0.02	15	46	33	353	0.10	60	5.2	5.3	0.00
25	0.00	e0.60	0.02	22	110	34	160	0.12	61	3.4	2.9	0.00
26	0.00	e0.52	0.02	15	120	34	75	0.15	67	3.0	1.4	0.00
27	0.00	e0.46	0.03	11	70	34	36	3.2	217	3.2	0.85	0.00
28	0.00	e0.38	0.03	9.5	55	33	18	14	681	4.4	1.0	0.00
29	0.00	e0.29	0.04	8.4	57	32	11	4.4	605	450	1.7	0.00
30	0.00	e0.20	0.05	5.6	---	30	9.7	0.99	483	214	1.2	0.00
31	0.00	---	0.05	5.1	---	29	---	0.48	---	85	0.70	---
TOTAL	0.00	99.45	0.66	537.45	1,040.4	2,483	1,156.7	61.29	4,029.39	2,263.0	254.12	3.01
MEAN	0.00	3.31	0.02	17.3	35.9	80.1	38.6	1.98	134	73.0	8.20	0.10
MAX	0.00	34	0.11	252	120	492	353	14	681	450	50	2.6
MIN	0.00	0.00	0.00	0.08	5.0	29	9.7	0.06	0.39	3.0	0.02	0.00
AC-FT	0.00	197	1.3	1,070	2,060	4,930	2,290	122	7,990	4,490	504	6.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

MEAN	81.6	120	147	101	207	240	153	238	124	22.3	3.32	6.52
MAX	1,022	1,120	1,160	805	987	813	804	1,704	737	213	19.0	64.0
(WY)	(1982)	(1995)	(1992)	(1998)	(2001)	(2002)	(1990)	(1982)	(1989)	(1994)	(1990)	(1994)
MIN	0.00	0.00	0.00	0.00	1.37	2.30	4.08	1.98	0.81	0.00	0.00	0.00
(WY)	(1978)	(1978)	(1978)	(1978)	(1976)	(1976)	(1980)	(2004)	(1996)	(1984)	(1980)	(1977)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

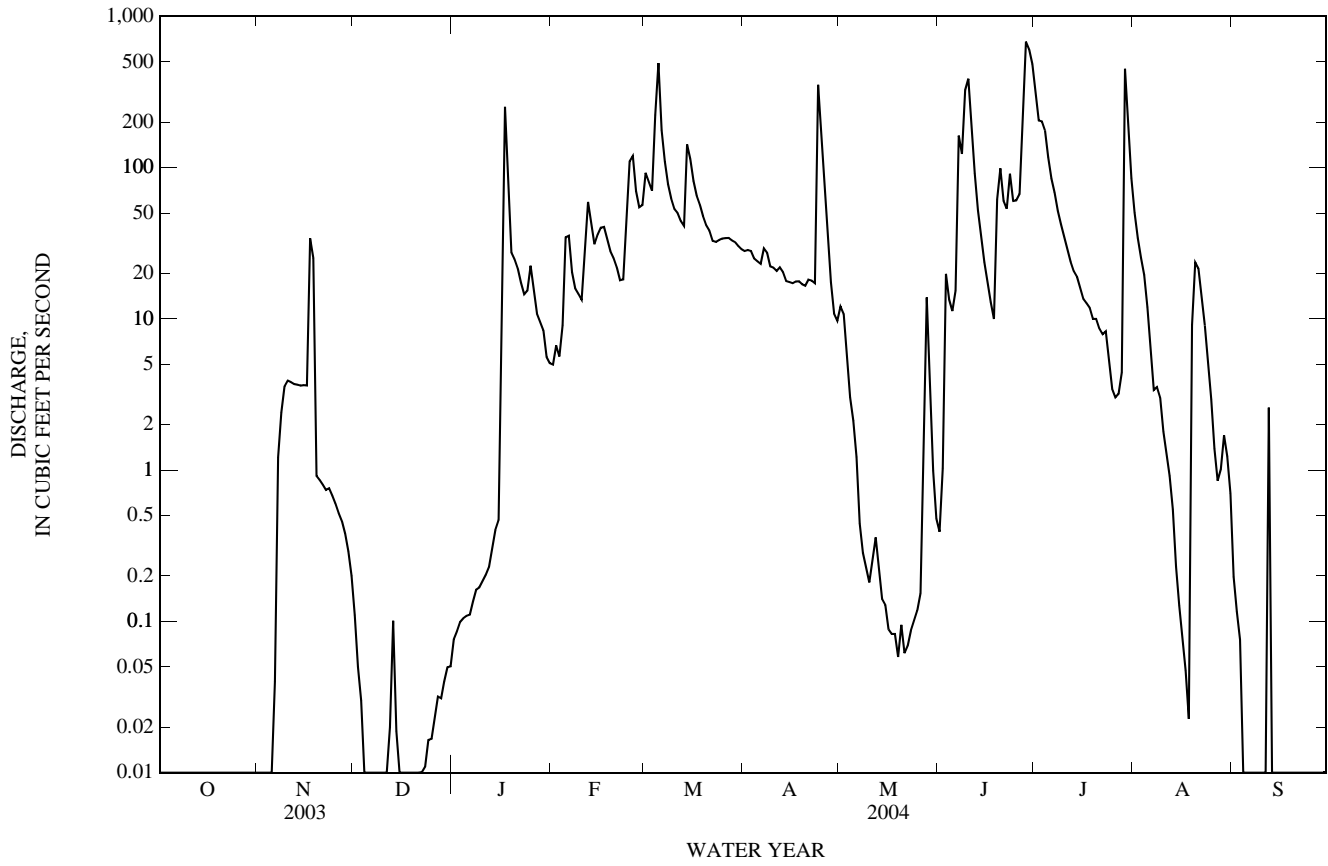
FOR 2004 WATER YEAR

WATER YEARS 1976 - 2004

ANNUAL TOTAL	9,083.76	11,928.47	
ANNUAL MEAN	24.9	32.6	120
HIGHEST ANNUAL MEAN			373
LOWEST ANNUAL MEAN			4.65
HIGHEST DAILY MEAN	402	681	26,800
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW		1,050	61,800
MAXIMUM PEAK STAGE		12.95	22.17
ANNUAL RUNOFF (AC-FT)	18,020	23,660	86,800
10 PERCENT EXCEEDS	58	76	236
50 PERCENT EXCEEDS	4.6	3.8	14
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

08058900 East Fork Trinity River at McKinney, TX—Continued



08059400 Sister Grove Creek near Blue Ridge, TX

LOCATION.--Lat 33°17'40", long 96°28'58", Collin County, Hydrologic Unit 12030106, on left bank at upstream side of highway embankment of bridge on Farm Road 545, 3.5 mi upstream from Hatler Branch, 4.8 mi west of Blue Ridge, 7.4 mi upstream from Stiff Creek, 14.7 mi upstream from mouth, and 24.7 mi upstream from Lavon Dam.

DRAINAGE AREA.--83.1 mi².

PERIOD OF RECORD.--July 1975 to Sept. 2001 (daily mean discharge). Oct. 2001 to current year (peaks above base discharge) Water-quality records: Chemical data: Nov. 1985 to June 1987, Oct. 1995 to Sept. 1999. Biochemical data: Nov. 1985 to Jun 1987, Oct. 1995 to Sept. 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 526.29 ft above NGVD of 1929. Prior to June 29, 1988, at datum 10.00 ft higher at same site. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage in July 1975, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 34 floodwater-retarding structures. These structures control runoff from 47.4 mi². Discharge may contain flow released from Lake Texoma and placed into channel 40 miles upstream from site. No flow at times.

AVERAGE DISCHARGE.--26 years (water years 1975-2001), 69.5 ft³/s (50,340 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s, May 13, 1982, gage height, 32.50 ft. Minimum discharge, no flow at times, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 30.7 ft, present datum, probably occurred in July 1913, from information by the Texas Department of Transportation. The probable date is from published records for Sister Grove Creek near Princeton (station 08059500, discontinued) located 9.7 mi downstream.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 692 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 5	0315	777	19.71	Jun 28	0300	*889	*20.65
Jun 21	1830	707	19.09				

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08060500 Lavon Lake near Lavon, TX

LOCATION.--Lat 33°01'54", long 96°28'56", Collin County, Hydrologic Unit 12030106, in right abutment of spillway in dam on East Fork Trinity River, 3,850 ft upstream from St. Louis Southwestern Railway Lines bridge, 4,000 ft upstream from bridge on State Highway 78, 2.9 mi west of Lavon, and 55.9 mi upstream from mouth.

DRAINAGE AREA.--770 mi².

PERIOD OF RECORD.--Sept. 1953 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Lavan Reservoir". Water-quality records: Chemical data: Oct. 1969 to Sept. 1974, Oct. 1975 to Sept. 1982, Oct. 1995 to Sept. 1999. Biochemical data: Oct. 1969 to Sept. 1974, Oct. 1975 to Sept. 1982, Oct. 1995 to Sept. 1999.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Jan. 20, 1954, nonrecording gage in the approach channel at same datum. Satellite telemeter at station.

REMARKS.--Records good. The lake formed by a rolled earthfill dam 18,860 ft long, including a 568-foot gated spillway with twelve 40.0- by 28.0-foot tainter gates. The original dam was 9,499 ft long, but conservation capacity was increased to present size in Dec. 1975. Deliberate impoundment began Sept. 14, 1953, and the dam was completed in Oct. 1953. Low-flow outlets consist of five 36-inch-diameter controlled sluice gates. Lake was designed for flood control and water conservation. Water for municipal supply can be released down to elevation 453.0 ft. Flow is affected at times by discharge from the flood-detention pools of 149 floodwater-retarding structures with a combined detention capacity of 69,170 acre-ft. These structures control runoff from 242 mi² in the East Fork Trinity River, Pilot Grove, and Sister Grove Creek drainage basins. The dam is owned by the U.S. Army Corps of Engineers. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam	514.0
Design flood	509.0
Top of tainter gates	503.5
Crest of spillway (sill of tainter gates)	475.5
Lowest gated outlet (invert)	453.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 791,000 acre-ft, May 3, 1990, elevation, 504.93 ft; minimum since lake first filled in 1957, 80,150 acre-ft, Apr. 17, 1976, elevation, 465.96 ft.

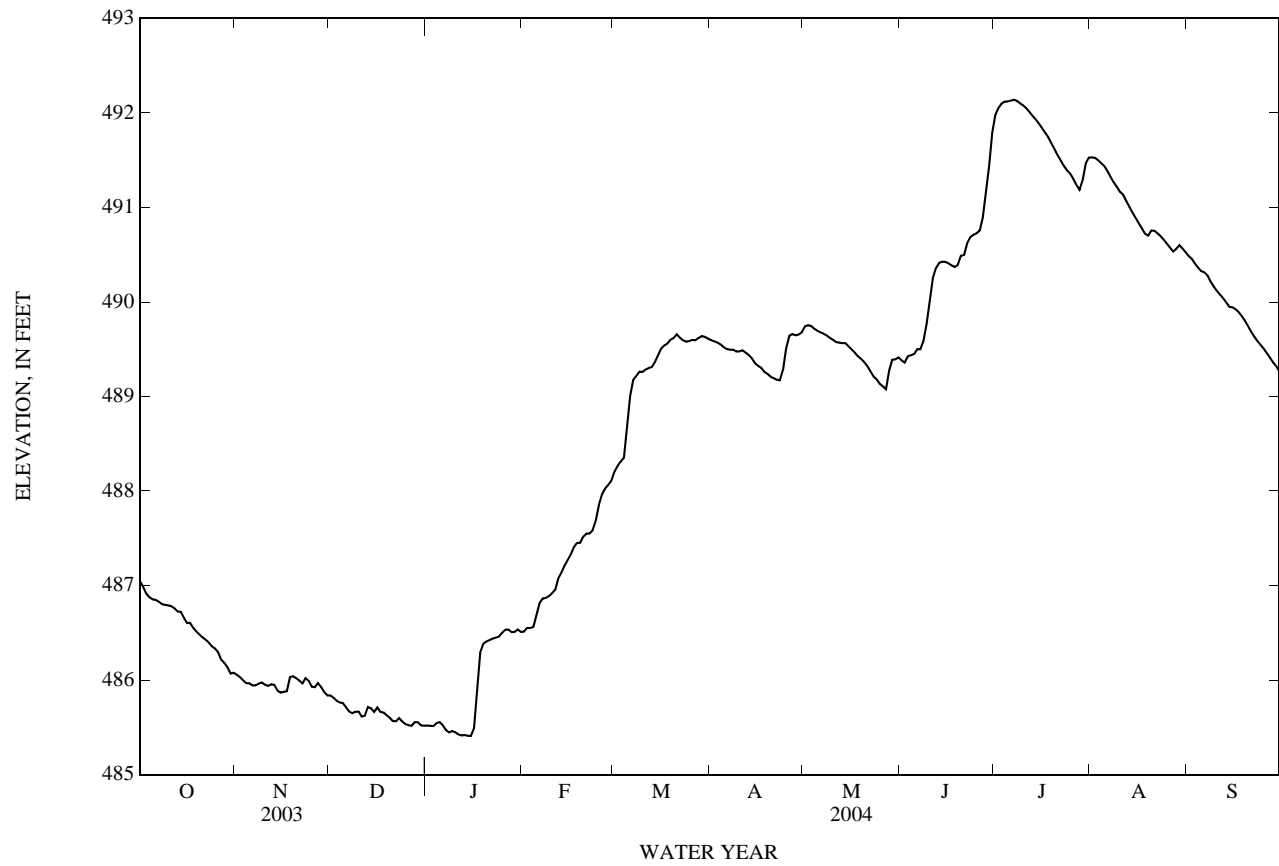
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 492.15 ft, July 6; minimum elevation, 485.40 ft, Jan. 12, 14, 15, 16.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	487.05	486.06	485.84	485.52	486.51	488.20	489.59	489.74	489.38	491.98	491.53	490.49
2	486.99	486.03	485.81	485.52	486.55	488.27	489.58	489.75	489.36	492.05	491.52	490.45
3	486.92	486.00	485.78	485.51	486.55	488.31	489.57	489.74	489.42	492.10	491.50	490.41
4	486.88	485.97	485.76	485.54	486.56	488.35	489.55	489.72	489.44	492.12	491.47	490.36
5	486.85	485.97	485.76	485.55	486.70	488.69	489.52	489.70	489.45	492.12	491.44	490.33
6	486.85	485.94	485.71	485.52	486.82	489.01	489.50	489.68	489.50	492.13	491.38	490.31
7	486.83	485.94	485.67	485.47	486.86	489.17	489.50	489.66	489.50	492.14	491.32	490.28
8	486.80	485.96	485.65	485.45	486.87	489.22	489.49	489.65	489.59	492.13	491.26	490.22
9	486.80	485.98	485.67	485.46	486.89	489.26	489.48	489.62	489.77	492.10	491.22	490.16
10	486.79	485.95	485.67	485.45	486.92	489.26	489.48	489.60	490.02	492.08	491.16	490.12
11	486.78	485.94	485.62	485.42	486.96	489.28	489.49	489.58	490.25	492.05	491.13	490.08
12	486.76	485.96	485.62	485.41	487.08	489.30	489.46	489.57	490.36	492.01	491.07	490.04
13	486.73	485.95	485.71	485.42	487.14	489.31	489.44	489.56	490.41	491.97	491.00	489.99
14	486.72	485.89	485.70	485.41	487.21	489.37	489.40	489.56	490.43	491.93	490.94	489.95
15	486.66	485.87	485.66	485.41	487.27	489.44	489.35	489.53	490.42	491.89	490.89	489.94
16	486.60	485.88	485.71	485.49	487.33	489.51	489.32	489.50	490.41	491.84	490.83	489.92
17	486.61	485.88	485.66	485.92	487.41	489.54	489.30	489.46	490.39	491.79	490.78	489.89
18	486.55	486.03	485.66	486.29	487.45	489.56	489.26	489.43	490.37	491.74	490.72	489.85
19	486.52	486.04	485.63	486.38	487.45	489.60	489.24	489.40	490.39	491.68	490.70	489.80
20	486.48	486.02	485.60	486.41	487.52	489.62	489.21	489.36	490.49	491.61	490.76	489.74
21	486.45	485.99	485.57	486.42	487.55	489.66	489.19	489.32	490.50	491.55	490.75	489.68
22	486.43	485.96	485.57	486.44	487.55	489.62	489.18	489.27	490.62	491.49	490.72	489.63
23	486.40	486.02	485.60	486.45	487.59	489.59	489.17	489.21	490.69	491.44	490.70	489.59
24	486.36	485.99	485.56	486.46	487.69	489.58	489.29	489.18	490.71	491.39	490.66	489.55
25	486.33	485.93	485.53	486.50	487.85	489.59	489.51	489.13	490.72	491.36	490.62	489.51
26	486.30	485.93	485.52	486.53	487.96	489.60	489.64	489.11	490.76	491.30	490.58	489.46
27	486.22	485.97	485.52	486.54	488.03	489.60	489.66	489.08	490.89	491.24	490.53	489.41
28	486.18	485.93	485.56	486.51	488.06	489.62	489.65	489.27	491.15	491.19	490.56	489.36
29	486.14	485.87	485.56	486.51	488.11	489.64	489.66	489.39	491.43	491.29	490.60	489.32
30	486.07	485.84	485.52	486.54	---	489.63	489.68	489.39	491.79	491.47	490.57	489.27
31	486.08	---	485.52	486.51	---	489.61	---	489.41	---	491.53	490.53	---
MEAN	486.58	485.96	485.64	485.93	487.26	489.29	489.45	489.47	490.29	491.76	490.95	489.90
MAX	487.05	486.06	485.84	486.54	488.11	489.66	489.68	489.75	491.79	492.14	491.53	490.49
MIN	486.07	485.84	485.52	485.41	486.51	488.20	489.17	489.08	489.36	491.19	490.53	489.27

CAL YR	2003	MEAN	489.34	MAX	492.54	MIN	485.52
WTR YR	2004	MEAN	488.54	MAX	492.14	MIN	485.41

08060500 Lavon Lake near Lavon, TX—Continued



08061540 Rowlett Creek near Sachse, TX

LOCATION.--Lat 32°57'35", long 96°36'51", Dallas County, Hydrologic Unit 12030106, on right bank at downstream side of railroad embankment of Gulf, Colorado, and Santa Fe Railway Co., 100 ft downstream from Spring Creek, 150 ft upstream from State Highway 78 bridge, and 1.5 mi southwest of Sachse.

DRAINAGE AREA.--120 mi².

PERIOD OF RECORD.--Mar. 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 450.00 ft above NGVD of 1929. Mar. 1968 to Aug. 25, 1993, at site on left bank 150 ft downstream at present datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. The North Texas Municipal Water District returns wastewater effluent into a tributary above this station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1942, 35.4 ft in 1942, from information by Texas Department of Transportation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	30	65	62	98	228	85	787	86	170	122	57
2	52	33	66	63	183	175	87	166	149	121	105	58
3	51	34	60	61	95	161	85	124	904	105	92	58
4	54	36	56	65	475	1,130	84	111	136	95	86	58
5	148	38	56	62	537	585	83	100	292	85	80	79
6	69	98	54	61	161	192	88	91	128	85	76	789
7	62	742	56	58	132	160	126	87	818	84	71	90
8	52	136	49	54	120	137	84	86	1,000	82	70	68
9	149	221	43	57	116	126	75	85	1,010	77	69	62
10	71	88	43	56	110	118	79	80	1,090	73	64	56
11	65	78	45	56	410	117	81	83	239	69	63	54
12	63	72	480	57	286	115	100	89	183	68	60	54
13	63	66	311	55	146	149	75	81	295	66	58	52
14	60	62	90	56	233	262	72	87	127	60	52	55
15	58	71	83	58	215	147	66	80	113	64	52	59
16	56	66	71	1,390	164	127	63	77	105	64	46	54
17	61	1,060	61	3,020	140	121	62	76	96	65	47	47
18	59	454	59	251	129	114	58	74	89	62	45	41
19	56	124	60	164	124	110	60	73	792	55	842	47
20	57	95	57	136	119	107	59	71	194	57	178	44
21	57	87	58	124	117	104	57	72	129	56	85	34
22	55	77	54	117	113	102	54	71	285	53	76	34
23	53	141	49	111	464	100	52	71	134	52	72	34
24	43	79	49	239	283	101	1,930	69	95	54	72	33
25	32	74	51	220	977	97	608	69	90	50	62	34
26	25	71	53	118	256	97	166	71	206	53	57	33
27	29	70	54	108	194	97	121	354	262	53	53	32
28	30	63	146	102	175	98	105	1,550	213	373	433	30
29	29	63	71	102	528	88	199	128	719	2,620	94	29
30	27	66	67	100	---	81	111	102	373	933	71	32
31	33	---	62	95	---	82	---	87	---	160	64	---
TOTAL	1,773	4,395	2,579	7,278	7,100	5,428	4,975	5,152	10,352	6,064	3,417	2,207
MEAN	57.2	146	83.2	235	245	175	166	166	345	196	110	73.6
MAX	149	1,060	480	3,020	977	1,130	1,930	1,550	1,090	2,620	842	789
MIN	25	30	43	54	95	81	52	69	86	50	45	29
AC-FT	3,520	8,720	5,120	14,440	14,080	10,770	9,870	10,220	20,530	12,030	6,780	4,380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	MEAN	138	128	168	118	172	193	166	225	152	54.8	40.7	62.2
MAX	610	586	898	617	680	484	573	1,039	566	241	120	239	
(WY)	(1982)	(1995)	(1992)	(1998)	(2001)	(2002)	(1990)	(1982)	(1981)	(1994)	(2001)	(2003)	
MIN	4.88	7.63	7.52	6.72	7.83	11.9	23.8	18.8	4.60	1.91	1.78	3.75	
(WY)	(1979)	(1976)	(1978)	(1976)	(1976)	(1971)	(1972)	(1972)	(1971)	(1972)	(1972)	(1969)	

SUMMARY STATISTICS

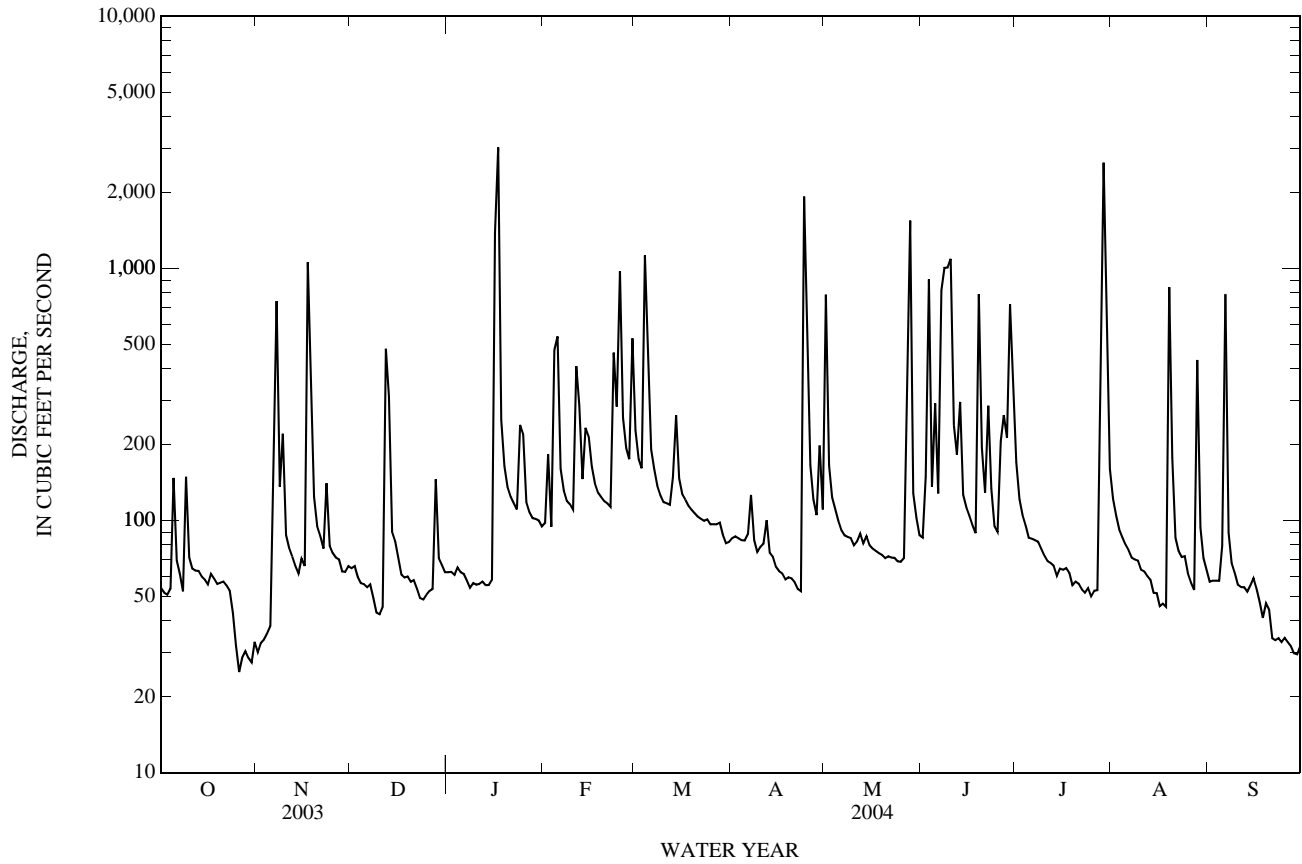
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1968 - 2004

ANNUAL TOTAL	49,192	60,720	
ANNUAL MEAN	135	166	134
HIGHEST ANNUAL MEAN			269
LOWEST ANNUAL MEAN			22.2
HIGHEST DAILY MEAN	2,580	Apr 6	14,900
LOWEST DAILY MEAN	25	Oct 26	0.00
ANNUAL SEVEN-DAY MINIMUM	29	Oct 26	0.00
MAXIMUM PEAK FLOW		6,920	32,200
MAXIMUM PEAK STAGE		22.48	29.62
ANNUAL RUNOFF (AC-FT)	97,570	120,400	97,350
10 PERCENT EXCEEDS	194	288	215
50 PERCENT EXCEEDS	76	80	52
90 PERCENT EXCEEDS	51	50	9.1

08061540 Rowlett Creek near Sachse, TX—Continued



LOCATION.--Lat 32°48'00", long 96°29'45", Kaufman County, Hydrologic Unit 12030106, at right end of spillway on Forney Dam on East Fork Trinity River, 0.5 mi upstream from Duck Creek, 1.8 mi upstream from bridge on U.S. Highway 80, 3.8 mi northwest of Forney, 24.0 mi downstream from Lavon Dam, and 31.8 mi upstream from mouth.

PERIOD OF RECORD.--Jan. 1968 to Dec. 1993, Oct. 1996 to current year. Water-quality records: Chemical data: Oct. 1969 to Sept. 1979.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 12,500 ft long, including a 664-foot gated spillway with fourteen 40- by 28-foot tainter gates. Impoundment began in Sept. 1967, but all gates were not closed until Mar. 22, 1978. Low-flow releases are made through three 4.5- by 6.75-ft sluiceways. The lake was built by the city of Dallas for municipal water supply. Conservation pool storage is 490,000 acre-ft. Data regarding the dam are given in the following table:

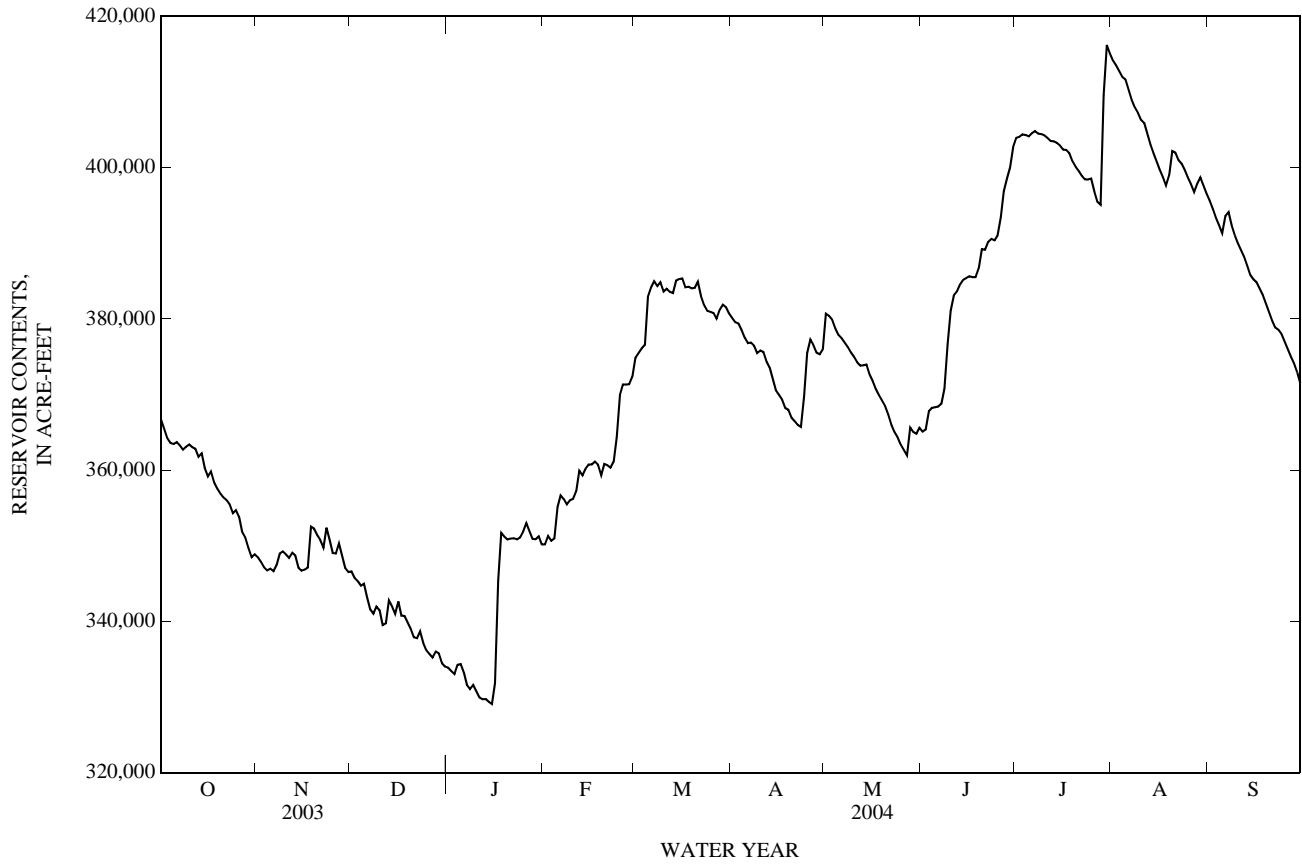
	Elevation (feet)
Top of dam	450.0
Design flood	440.5
Top of conservation pool	438.8
Top of tainter gates	437.5
Crest of spillway (sill of tainter gates)	409.5
Lowest gated outlet (invert)	388.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 544,100 acre-ft, May 4, 1990, elevation, 437.81 ft; minimum contents since first appreciable filling, 311,800 acre-ft, Sept. 30, 2000, elevation, 430.26 ft; minimum elevation, 429.72 ft, Oct. 15, 2000, contents unknown.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 417,000 acre-ft, July 30, elevation, 435.66 ft; minimum contents, 328,600 acre-ft, Jan. 16, elevation, 431.22 ft.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366,700	348,500	346,600	333,900	350,200	374,900	380,100	380,700	365,100	403,900	414,100	395,600
2	365,400	347,900	345,700	333,400	351,300	375,500	379,500	380,400	365,400	404,100	413,500	394,600
3	364,200	347,100	345,300	333,000	350,700	376,100	379,400	379,900	367,800	404,400	412,700	393,400
4	363,600	346,700	344,700	334,300	351,000	376,600	378,600	378,800	368,200	404,300	412,000	392,400
5	363,500	347,000	345,000	334,400	355,100	382,900	377,500	377,900	368,300	404,100	411,700	391,300
6	363,700	346,600	343,100	333,300	356,700	384,200	376,800	377,500	368,400	404,600	410,300	393,600
7	363,300	347,400	341,600	331,600	356,200	385,000	376,900	376,900	368,800	404,800	408,900	394,100
8	362,700	349,000	341,000	331,100	355,400	384,300	376,400	376,300	370,800	404,500	408,000	392,400
9	363,100	349,300	342,000	331,600	356,000	384,800	375,500	375,600	376,700	404,400	407,200	391,100
10	363,400	348,900	341,500	330,800	356,200	383,600	375,800	375,000	381,100	404,300	406,300	390,000
11	363,000	348,400	339,500	329,900	357,200	384,000	375,600	374,300	383,100	403,900	405,900	389,100
12	362,800	349,100	339,700	329,700	359,900	383,600	374,300	373,800	383,600	403,500	404,500	388,200
13	361,800	348,700	342,800	329,700	359,300	383,400	373,600	373,900	384,600	403,500	403,100	387,000
14	362,200	347,100	342,000	329,400	360,200	385,000	372,000	374,000	385,200	403,300	401,900	385,800
15	360,300	346,700	341,000	329,100	360,700	385,300	370,500	372,700	385,400	402,900	400,800	385,200
16	359,200	346,800	342,600	331,800	360,800	385,400	369,900	371,800	385,600	402,400	399,700	384,800
17	359,800	347,100	340,800	345,400	361,100	384,200	369,300	370,800	385,500	402,300	398,700	384,000
18	358,400	352,500	340,700	351,700	360,700	384,300	368,200	369,900	385,500	401,900	397,600	383,200
19	357,600	352,300	339,900	351,200	359,300	384,000	368,000	369,200	386,700	400,900	399,000	382,000
20	356,900	351,400	339,000	350,800	360,800	384,100	366,900	368,400	389,200	400,100	402,200	380,900
21	356,400	350,800	337,900	351,000	360,600	384,900	366,500	367,400	389,100	399,600	402,000	379,700
22	356,000	349,800	337,800	351,000	360,300	383,000	366,000	366,000	390,200	398,900	401,000	378,900
23	355,500	352,400	338,700	350,800	361,100	381,800	365,700	365,000	390,600	398,400	400,500	378,600
24	354,300	350,700	337,100	351,100	364,400	381,100	369,800	364,300	390,400	398,400	399,700	378,000
25	354,700	349,000	336,200	351,900	369,900	380,900	375,500	363,400	391,000	398,500	398,700	377,000
26	353,800	349,000	335,700	353,000	371,300	380,800	377,300	362,600	393,400	396,900	397,800	376

08061550 Lake Ray Hubbard near Forney, TX—Continued



TRINITY RIVER BASIN

286

08061750 East Fork Trinity River near Forney, TX

LOCATION.--Lat 32°46'27", long 96°30'12", Kaufman County, Hydrologic Unit 12030106, on right bank 25 ft downstream from bridge on U.S. Highway 80, 0.2 mi downstream from Duck Creek, 1.9 mi downstream from Lake Ray Hubbard Dam, 2.5 mi upstream from Texas and Pacific Railroad Co. bridge, 2.6 mi northwest of Forney, and 30.8 mi upstream from mouth.

DRAINAGE AREA.--1,118 mi².of which 1,071 mi² is above Lake Ray Hubbard.

PERIOD OF RECORD.--Jan. 1973 to current year. Water-quality records: Chemical data: Nov. 1981 to Jan. 1993. Biochemical data: Nov. 1981 to Jan. 1993. Specific conductance: Oct. 1981 to Jan. 1993. pH: Aug. 1986 to Jan. 1993. Water temperature: Oct. 1981 to Jan. 1993. Dissolved oxygen: Aug. 1986 to Jan. 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 374.86 ft above NGVD of 1929. Prior to Aug. 26, 1975, recording gage at 3 ft higher datum located at site 126 ft upstream. From Aug. 26, 1975, to May 12, 1977, recording gage at 3 ft higher datum located at site 105 ft downstream. From May 13, 1977, to Sept. 30, 1984, recording gage at 3 ft higher datum at current site. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Jan. 1973, at least 10% of contributing drainage area has been regulated. Low flow is sustained by wastewater effluent discharge from the city of Garland into Duck Creek, which enters the East Fork Trinity River 0.2 mi upstream from this station. No known diversions.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	37	50	45	57	238	59	788	e67	233	219	46
2	43	41	56	51	194	87	70	242	384	102	70	44
3	64	69	43	49	91	174	37	93	726	79	63	37
4	48	43	52	48	72	272	43	49	117	66	48	40
5	151	43	47	36	614	696	49	34	94	55	42	37
6	141	39	42	50	188	171	35	38	239	63	63	146
7	70	322	54	33	90	87	54	34	724	60	44	98
8	53	304	71	44	90	75	38	31	850	52	47	37
9	196	182	55	39	60	48	31	20	960	50	41	56
10	114	87	40	38	79	45	52	31	786	44	51	36
11	59	76	54	48	261	37	53	33	206	40	48	33
12	60	56	69	49	377	36	60	34	55	42	57	40
13	56	52	478	48	134	44	47	34	44	38	31	29
14	56	48	96	62	157	224	36	34	32	41	31	37
15	55	53	71	38	219	106	48	24	42	43	42	46
16	47	72	65	596	140	47	41	26	35	33	52	35
17	50	119	46	1,680	101	39	20	e32	53	39	41	31
18	57	553	41	328	85	42	48	e19	46	37	42	33
19	57	109	46	156	60	41	40	e25	185	38	206	30
20	56	62	43	95	78	28	47	e22	381	41	311	27
21	55	64	50	63	77	29	24	e20	27	40	66	46
22	48	35	50	76	68	33	43	e19	66	31	65	28
23	44	73	38	65	171	36	47	e71	70	31	41	43
24	51	89	47	62	566	28	668	e20	37	41	39	34
25	53	32	51	184	995	34	636	e20	13	44	35	38
26	52	56	44	78	326	28	206	e19	532	41	45	31
27	46	61	35	67	169	30	53	e96	1,180	42	32	42
28	48	56	69	60	97	57	35	e173	408	49	171	34
29	40	49	61	49	249	135	131	e80	220	3,630	122	37
30	44	43	41	51	---	40	78	e76	447	1,410	54	37
31	46	---	50	55	---	28	---	e19	---	1,280	38	---
TOTAL	2,005	2,925	2,055	4,343	5,865	3,015	2,829	2,256	9,026	7,835	2,257	1,288
MEAN	64.7	97.5	66.3	140	202	97.3	94.3	72.8	301	253	72.8	42.9
MAX	196	553	478	1,680	995	696	668	788	1,180	3,630	311	146
MIN	40	32	35	33	57	28	20	19	13	31	31	27
AC-FT	3,980	5,800	4,080	8,610	11,630	5,980	5,610	4,470	17,900	15,540	4,480	2,550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	355	485	597	595	876	1,186	1,141	1,455	1,011	370	121	178
MAX	3,975	3,076	3,276	4,826	4,043	5,918	6,053	8,008	5,436	2,207	1,246	1,583
(WY)	(1974)	(1995)	(1992)	(1998)	(2001)	(2001)	(2002)	(1990)	(1989)	(1982)	(1989)	(1974)
MIN	15.8	26.4	22.3	24.7	33.2	34.5	35.7	42.5	28.2	19.7	23.1	22.6
(WY)	(1978)	(1977)	(1978)	(1981)	(1981)	(1980)	(1978)	(1988)	(1978)	(1978)	(1980)	(1977)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

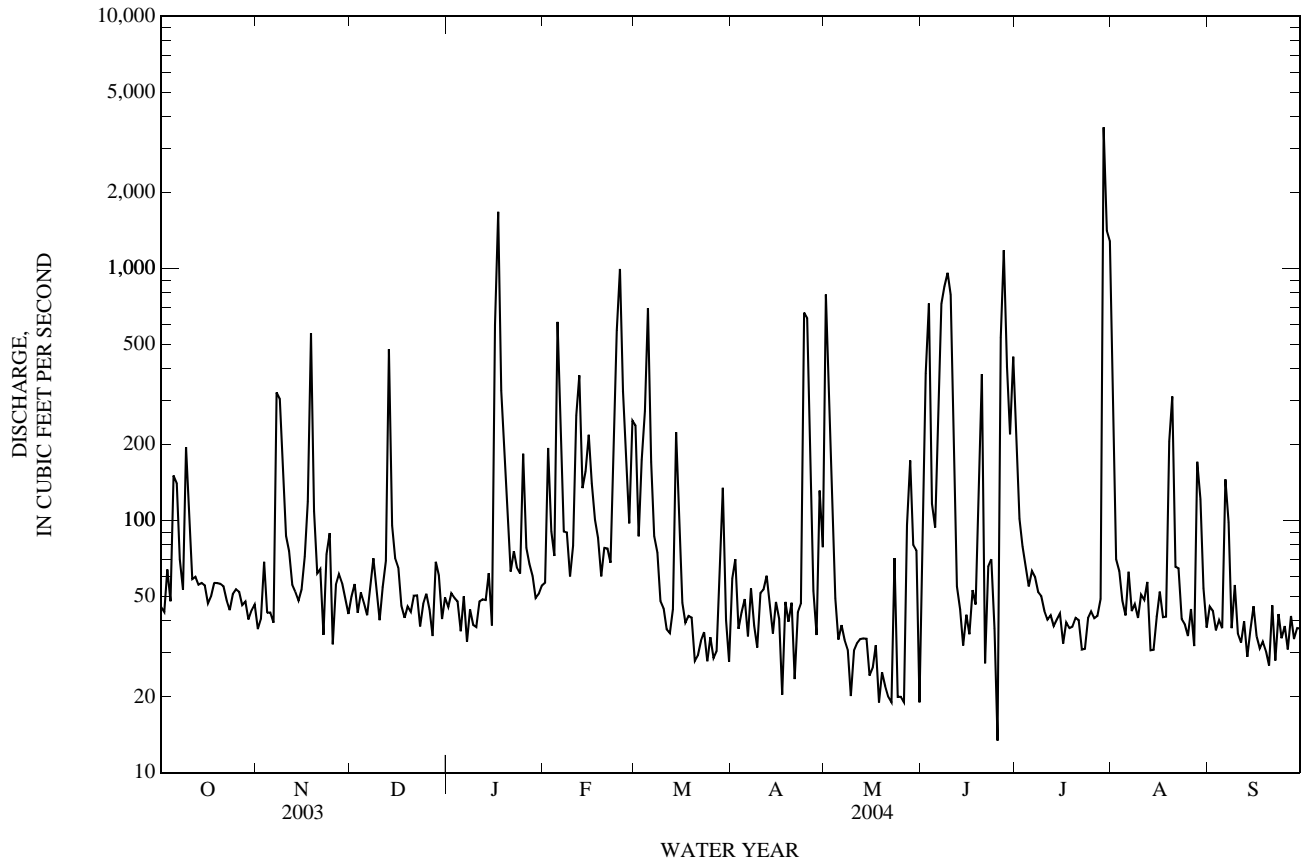
WATER YEARS 1973 - 2004

ANNUAL TOTAL	56,468	45,699	
ANNUAL MEAN	155	125	687
HIGHEST ANNUAL MEAN			1,941
LOWEST ANNUAL MEAN			37.6
HIGHEST DAILY MEAN	5,130	Feb 22	3,630
LOWEST DAILY MEAN	18	Jul 20	13
ANNUAL SEVEN-DAY MINIMUM	25	May 6	23
MAXIMUM PEAK FLOW			6,830
MAXIMUM PEAK STAGE			a14.79
ANNUAL RUNOFF (AC-FT)	112,000		90,640
10 PERCENT EXCEEDS	271		238
50 PERCENT EXCEEDS	57		50
90 PERCENT EXCEEDS	31		32

a From floodmark.

e Estimated

08061750 East Fork Trinity River near Forney, TX—Continued



08062000 East Fork Trinity River near Crandall, TX

LOCATION.--Lat 32°38'19", long 96°29'06", Kaufman County, Hydrologic Unit 12030106, on right bank 15 ft downstream from downstream eastbound bridge on U.S. Highway 175, 0.7 mi downstream from Mustang Creek, 1.8 mi northwest of Crandall, 4.0 mi upstream from Buffalo Creek, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--1,256 mi².

PERIOD OF RECORD.--June 1949 to current year. Water-quality records: Chemical data: Jan. to Apr. 1964, May 1966 to Sept. 1981, June 1986 to Sept. 2000. Biochemical data: Jan. to Apr. 1964, May 1966 to Sept. 1981, June 1986 to Sept. 2000. Pesticide data: Mar. 1977 to July 1981. Sediment data: Apr. to Sept. 1964. Specific conductance: Oct. 1967 to Sept. 1981, May 1986 to Sept. 2000. pH: Mar. to Sept. 1977, May 1986 to Sept. 2000. Water temperature: Oct. 1967 to Sept. 1981, May 1986 to Sept. 2000. Dissolved oxygen: Mar. to Sept. 1977, May 1986 to Sept. 2000. Precipitation records: Oct. 2001 to Sept. 2002.

REVISED RECORDS.--WSP 1922: Drainage area. WDR TX-75-1: 1974.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 338.69 ft above NGVD of 1929. Prior to Feb. 21, 1983, at datum 5.00 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since Sept. 1953, at least 10% of contributing drainage area has been regulated. The city of Forney discharges wastewater effluent into a tributary below Lake Ray Hubbard and above this station. The North Texas Municipal Water District discharges wastewater effluent into tributaries above this station from their Mesquite and Changler's Landing wastewater treatment plants. Flow is also affected at times by discharge from floodwater-retarding structures controlling runoff from a 39.2 mi² area above this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--4 years (water years 1950-53) prior to regulation by Lavon Lake, 652 ft³/s (472,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS, 1950-1953: Maximum discharge, 16,400 ft³/s May 2, 1953 (gage height, 19.87 ft); no flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	70	73	81	145	605	102	1,840	147	883	e599	137
2	68	65	76	79	208	278	104	973	449	394	e304	149
3	70	69	74	83	212	433	106	248	655	293	e208	137
4	80	85	72	83	173	568	97	174	301	252	164	134
5	86	72	73	76	1,160	1,600	96	133	136	220	141	130
6	170	68	73	74	485	426	96	124	291	204	135	151
7	97	108	74	79	259	210	98	113	165	226	133	251
8	88	499	79	70	228	169	99	111	394	188	116	155
9	127	182	88	78	203	141	98	101	1,720	173	113	135
10	180	131	75	68	185	132	96	96	1,910	163	112	140
11	93	92	73	77	513	123	99	99	865	156	111	121
12	82	86	78	81	826	124	100	110	288	149	111	124
13	83	75	686	84	323	116	103	101	201	142	108	127
14	78	77	190	88	288	333	88	96	178	136	97	119
15	79	71	109	95	389	268	89	88	158	137	96	127
16	81	79	97	611	289	148	93	90	159	137	e86	133
17	78	101	94	2,380	232	127	85	92	132	124	e81	123
18	79	833	86	845	210	119	77	84	122	130	96	119
19	78	186	82	375	196	115	86	82	110	130	364	119
20	80	102	82	265	187	109	81	91	498	127	779	119
21	76	89	84	213	191	98	83	80	168	130	365	114
22	77	83	85	199	183	100	76	78	113	127	239	128
23	73	73	80	191	172	103	90	78	147	117	209	115
24	71	99	74	e179	823	97	786	82	121	120	184	125
25	73	82	86	e256	1,900	99	1,460	74	104	129	166	119
26	70	71	83	e205	1,160	103	752	75	221	131	156	123
27	73	80	74	164	382	98	210	78	2,220	131	156	117
28	71	82	76	154	268	107	151	191	1,500	126	175	126
29	70	80	95	149	398	312	148	141	551	e5,000	304	120
30	66	76	77	136	---	141	202	85	1,050	e2,140	170	118
31	69	---	79	145	---	109	---	103	---	e1,710	149	---
TOTAL	2,637	3,866	3,227	7,663	12,188	7,511	5,851	5,911	15,074	14,225	6,227	3,955
MEAN	85.1	129	104	247	420	242	195	191	502	459	201	132
MAX	180	833	686	2,380	1,900	1,600	1,460	1,840	2,220	5,000	779	251
MIN	66	65	72	68	145	97	76	74	104	117	81	114
AC-FT	5,230	7,670	6,400	15,200	24,170	14,900	11,610	11,720	29,900	28,220	12,350	7,840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004z, BY WATER YEAR (WY)

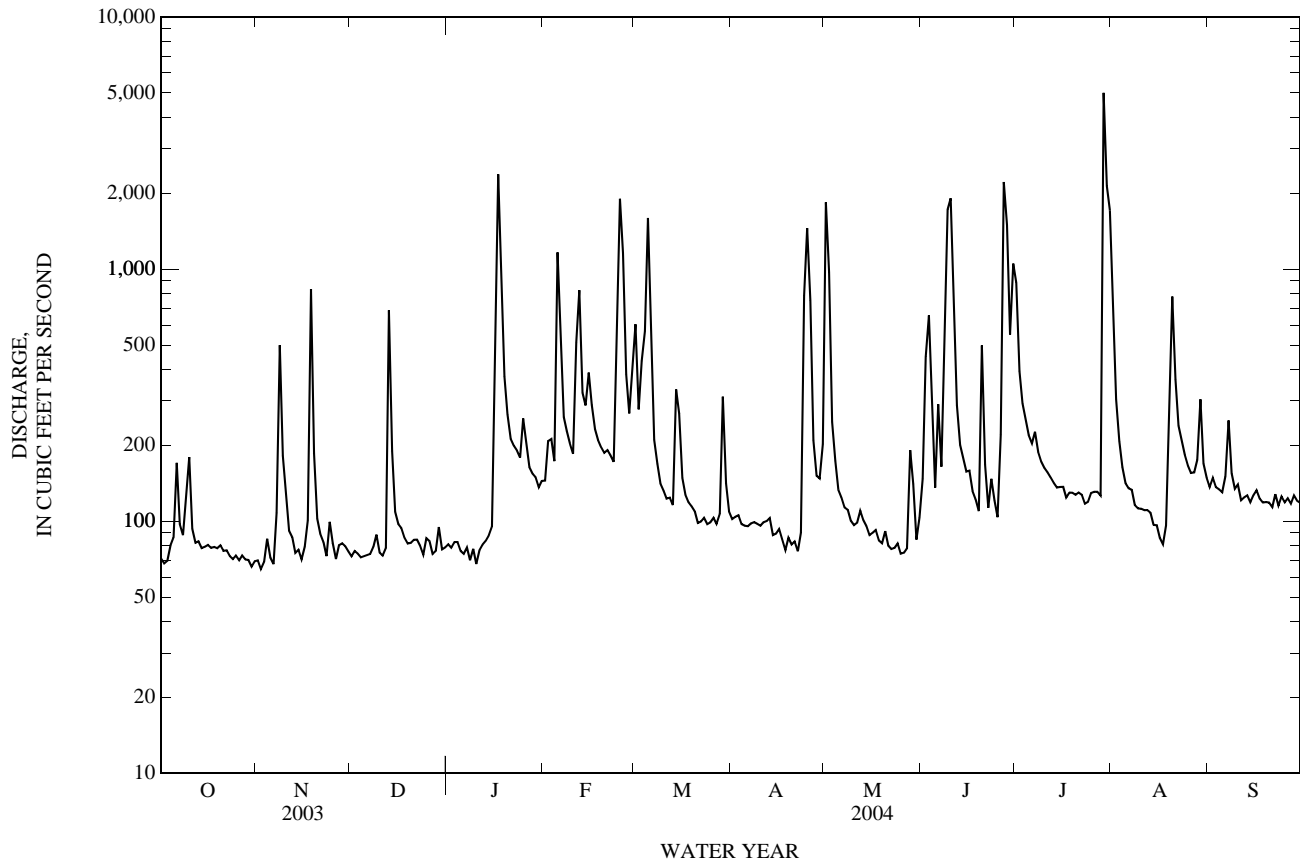
MEAN	372	460	677	602	850	1,059	1,146	1,641	999	408	158	199
MAX	4,116	3,293	4,401	5,039	4,176	8,028	6,394	9,586	5,718	2,026	1,459	1,560
(WY)	(1974)	(1995)	(1972)	(1998)	(2001)	(2001)	(2002)	(1957)	(1989)	(1982)	(1989)	(1974)
MIN	1.58	3.78	3.57	7.77	23.1	10.6	7.47	42.1	17.8	3.84	0.00	0.00
(WY)	(1957)	(1956)	(1955)	(1957)	(1957)	(1956)	(1956)	(1959)	(1954)	(1956)	(1956)	(1954)

08062000 East Fork Trinity River near Crandall, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004z	
ANNUAL TOTAL	74,387		88,335		713	
ANNUAL MEAN	204		241		2,209	
HIGHEST ANNUAL MEAN					38.4	
LOWEST ANNUAL MEAN					48,800	
HIGHEST DAILY MEAN	3,230	Feb 22	5,000	Jul 29	59,900	May 5, 1990
LOWEST DAILY MEAN	63	Sep 25	65	Nov 2	0.00	Oct 1, 1953
ANNUAL SEVEN-DAY MINIMUM	65	Sep 21	69	Oct 28	0.00	Oct 1, 1953
MAXIMUM PEAK FLOW			unknown		27.17	
MAXIMUM PEAK STAGE			unknown		516,900	
ANNUAL RUNOFF (AC-FT)	147,500		175,200		2,130	
10 PERCENT EXCEEDS	316		460		101	
50 PERCENT EXCEEDS	108		121		22	
90 PERCENT EXCEEDS	74		76			

z Period of regulated streamflow.

e Estimated



08062500 Trinity River near Rosser, TX

LOCATION.--Lat 32°25'35", long 96°27'46", Ellis County, Hydrologic Unit 12030105, on right bank at downstream side of right pier of bridge on State Highway 34, 2.5 mi south of Rosser, 8.5 mi downstream from East Fork Trinity River, and at mile 451.4.

DRAINAGE AREA.--8,147 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1924 to Sept. 1925, Oct. 1938 to current year. Monthly discharge only for some periods, published in WSP 1312. Precipitation records: Oct. 2001 to Sept. 2002.

REVISED RECORDS.--WRD TX-77-1: 1942(M), drainage area. WDR TX-89-1: 1988. WDR TX-92-1: 1991.

GAGE.--Water-stage recorder. Datum of gage is 297.65 ft above NGVD of 1929. Oct. 1938 to Sept. 1994 at present site and datum 5.00 ft higher. July 25, 1924, to Sept. 30, 1925, nonrecording gage at abandoned lock and dam No. 7, 1.7 mi upstream from present site at datum 11.94 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in July 1924, at least 10% of contributing drainage area has been regulated. A levee system, constructed in 1916, extends several miles upstream and downstream from the station. At times flow may be affected at by discharge from flood-water retarding structures controlling runoff from 76.7 mi² above this station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1908 reached a stage of about 38 ft (present site and datum), from information by U.S. Army Corps of Engineers. Discharge believed to have been about the same as that of Apr. 23, 1942.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	744	576	890	1,040	1,070	6,950	1,490	9,610	1,430	18,900	23,500	2,350
2	723	575	970	960	1,420	5,860	1,290	13,400	3,540	15,900	15,000	1,990
3	738	603	976	946	2,320	4,230	1,240	9,300	8,680	11,600	11,000	1,760
4	785	635	979	938	1,970	3,940	1,180	4,770	10,800	9,020	10,100	1,600
5	839	629	948	1,030	5,540	11,000	1,170	3,070	7,760	8,780	9,670	1,430
6	1,600	591	936	1,030	6,540	10,500	1,180	2,900	3,680	8,520	9,460	1,380
7	1,810	817	911	976	2,790	6,000	1,480	2,560	2,460	8,010	9,100	3,920
8	1,140	4,150	895	941	1,750	3,870	1,850	2,430	7,570	7,930	6,690	2,640
9	1,190	4,840	931	903	1,500	3,340	1,670	2,530	12,000	7,740	5,290	1,750
10	e2,040	2,970	927	877	1,970	3,060	1,340	2,560	14,600	7,250	5,120	1,590
11	e1,970	1,470	909	868	2,470	2,930	1,240	2,330	16,200	6,940	4,910	1,240
12	e1,550	982	919	908	6,170	2,080	1,300	3,460	17,300	6,700	4,690	1,180
13	e1,840	803	3,370	926	4,680	2,360	1,460	2,580	18,900	6,230	4,100	1,190
14	e1,440	757	3,990	906	2,990	3,550	1,370	1,820	19,400	e5,480	3,370	1,170
15	e1,310	688	1,800	898	3,010	3,830	1,260	1,980	18,200	e4,560	2,590	1,470
16	e1,700	661	1,290	1,470	2,790	2,650	1,190	1,590	15,600	e3,160	2,220	1,750
17	e1,070	721	1,170	12,800	2,370	2,090	1,150	1,560	12,900	2,520	2,430	1,390
18	e857	4,510	1,060	16,200	2,500	1,900	1,090	1,660	11,500	2,100	1,640	1,220
19	e787	5,080	1,030	12,900	1,680	1,750	1,090	1,210	10,800	2,080	1,690	1,160
20	e728	1,970	1,010	4,670	1,450	2,130	1,080	1,200	10,800	1,970	9,180	1,120
21	e728	1,300	979	1,960	1,360	1,710	1,070	1,180	10,800	1,850	10,400	1,140
22	e670	1,140	986	1,580	1,250	1,510	1,080	1,100	10,500	1,900	4,990	1,100
23	e634	1,060	1,000	1,450	1,280	1,540	1,070	1,090	10,000	1,720	2,400	1,040
24	590	1,200	1,010	1,380	4,260	1,420	3,970	1,100	9,450	1,410	2,210	1,000
25	586	1,250	977	1,780	9,330	1,380	12,200	1,110	9,130	1,220	2,270	968
26	594	1,070	927	2,120	13,200	1,410	14,200	1,070	9,150	1,160	2,260	922
27	621	1,020	925	1,470	9,710	1,380	e12,800	1,060	12,000	1,170	2,430	879
28	612	1,020	953	1,200	3,770	1,350	e6,800	e1,080	16,800	1,040	2,070	932
29	605	939	1,380	1,160	3,440	2,120	2,140	7,470	22,300	15,400	6,180	946
30	585	903	1,380	1,460	---	1,700	2,670	3,920	20,300	34,400	4,440	911
31	574	---	1,100	1,130	---	1,410	---	1,690	---	30,300	2,650	---
TOTAL	31,660	44,930	37,528	78,877	104,580	100,950	84,120	94,390	354,550	236,960	184,050	43,138
MEAN	1,021	1,498	1,211	2,544	3,606	3,256	2,804	3,045	11,820	7,644	5,937	1,438
MAX	2,040	5,080	3,990	16,200	13,200	11,000	14,200	13,400	22,300	34,400	23,500	3,920
MIN	574	575	890	868	1,070	1,350	1,070	1,060	1,430	1,040	1,640	879
AC-FT	62,800	89,120	74,440	156,500	207,400	200,200	166,900	187,200	703,200	470,000	365,100	85,560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004h, BY WATER YEAR (WY)

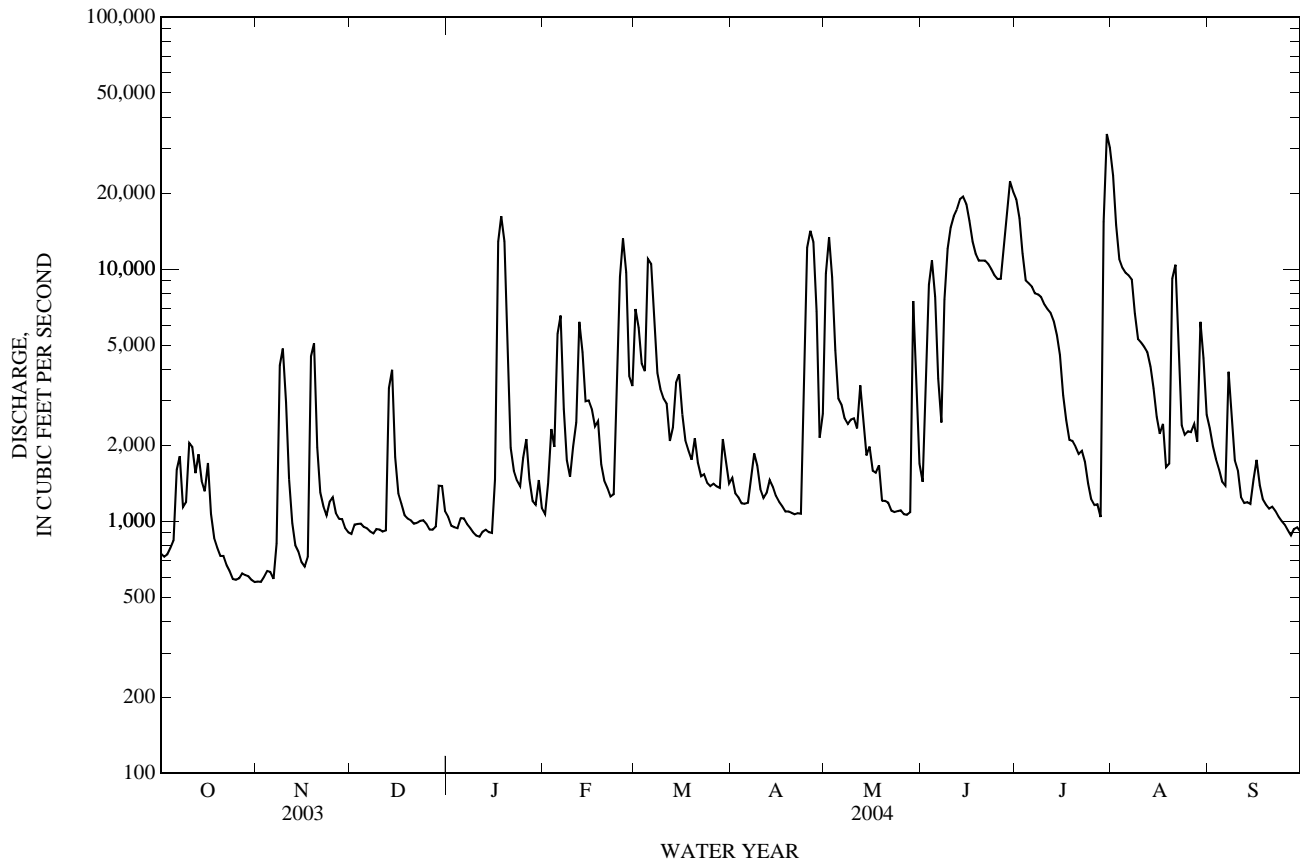
	1,875	2,308	2,816	2,252	3,457	4,055	4,592	6,408	5,202	2,073	1,177	1,211
MAX	11,140	16,860	22,340	17,140	14,680	20,120	38,610	40,400	24,600	10,650	6,912	8,322
(WY)	(1982)	(1982)	(1992)	(1992)	(1992)	(1945)	(1942)	(1990)	(1941)	(1989)	(1982)	(1962)
MIN	32.8	49.5	50.4	61.0	72.7	54.6	213	614	154	62.6	37.1	89.1
(WY)	(1925)	(1925)	(1925)	(1925)	(1925)	(1925)	(1956)	(1964)	(1925)	(1925)	(1925)	(1925)

08062500 Trinity River near Rosser, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004 ^h	
ANNUAL TOTAL	694,365		1,395,733		3,147	
ANNUAL MEAN	1,902		3,813		9,702	
HIGHEST ANNUAL MEAN					280	
LOWEST ANNUAL MEAN					133,000	
HIGHEST DAILY MEAN	16,500	Feb 23	34,400	Jul 30	1992	1956
LOWEST DAILY MEAN	574	Oct 31	574	Oct 31	32	Oct 4, 1924
ANNUAL SEVEN-DAY MINIMUM	590	Oct 28	590	Oct 28	32	Oct 14, 1924
MAXIMUM PEAK FLOW			35,700	Jul 30	150,000	Apr 23, 1942
MAXIMUM PEAK STAGE			35.55	Jul 30	41.55	Apr 22, 1942
ANNUAL RUNOFF (AC-FT)	1,377,000		2,768,000		2,280,000	
10 PERCENT EXCEEDS	3,700		10,600		8,820	
50 PERCENT EXCEEDS	1,100		1,680		980	
90 PERCENT EXCEEDS	693		897		250	

^h See PERIOD OF RECORD paragraph.

^e Estimated



08062500 Trinity River near Rosser, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1954 to current year.

BIOCHEMICAL DATA: Jan. 1968 to current year.

PESTICIDE DATA: Jan. 1968 to July 1981.

SEDIMENT DATA: Oct. 1963 to Sept. 1964, Apr. 1972 to Apr. 1975.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1954 to current year.

pH: Mar. 1977 to current year.

WATER TEMPERATURE: Oct. 1954 to current year.

DISSOLVED OXYGEN: Mar. 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since Mar. 1977.

REMARKS.--Records fair. Interruptions in the record were caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily records of specific conductance and regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,990 microsiemens/cm, Oct. 13, 1956; minimum, 122 microsiemens/cm, Sept. 30, 1981.

pH: Maximum, 9.9 standard units, July 12, 1982; minimum, 6.5 standard units, Apr. 12, 2002.

WATER TEMPERATURE: Maximum, 36.0°C, July 1, 1955; minimum, 1.0°C, on many days during winter months.

DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Feb. 18, 1996, Jan. 11, 25, 2001; minimum, 0.0 mg/L, on several days during 1979-81.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 809 microsiemens/cm, Nov. 5; minimum, 146 microsiemens/cm, July 29.

pH: Maximum, 8.6 standard units, Dec. 10, 11; minimum, 7.2 standard units, May 29.

WATER TEMPERATURE: Maximum, 31.0°C, July 24; minimum, 7.6°C, Feb. 15.

DISSOLVED OXYGEN: Maximum, 12.2 mg/L, Feb. 15; minimum, 3.6 mg/L, July 31, Aug. 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarb hardness, wat fltrd field, mg/L as CaCO ₃ (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
MAR 23...	1215	1,610	10	759	10.1	111	7.8	720	19.5	230	87	80.3	6.67
JUL 01...	1300	18,800	40	770	6.5	78	7.5	319	25.4	120	18	41.8	3.06
14...	1055	--	10	757	6.4	83	7.8	475	28.6	140	26	46.7	4.57
AUG 13...	1246	4,100	10	774	6.9	87	7.7	462	27.8	140	32	48.2	4.02
24...	1035	2,280	10	753	7.1	90	7.9	532	27.3	170	52	59.2	4.38
SEP 08...	0951	2,270	10	758	7.2	89	7.7	454	26.0	130	44	46.9	4.12

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat fltrd inc tit field, mg/L as CaCO ₃ (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)
MAR 23...	8.63	2	65.9	38	140	58.1	1.0	5.9	97.0	440	.58	<.04	29.2
JUL 01...	4.78	.7	16.2	22	99	14.2	.3	8.7	29.2	182	.49	.04	3.77
14...	5.91	1	36.0	35	111	33.1	.6	6.0	51.9	263	.51	.05	11.2
AUG 13...	6.30	1	30.7	32	105	28.8	.6	7.1	58.8	259	.49	<.04	10.6
24...	6.64	1	41.9	34	114	39.5	.8	8.4	61.7	311	.69	.15	17.7
SEP 08...	6.04	1	35.8	35	90	33.7	.6	6.7	53.5	257	.53	.04	14.0

08062500 Trinity River near Rosser, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)	Sampler type, code (84164)
MAR 23...	6.60	6.63d	.082	.025	3.08	1.00d	2.1	--	--	3051
JUL 01...	.85	.88	.092	.028	.392	.13	<2.0	--	--	3070
14...	2.54	2.56	.056	.017	.794	.26	<2.0	--	--	3051
AUG 13...	2.39	2.43	.118	.036	.898	.29	--	E4n	2.6	3051
24...	4.00	4.10	.315	.096	1.65	.54	<2.0	--	--	3051
SEP 08...	3.16	3.19	.099	.030	1.23	.40	<2.0	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

n -- Below the LRL and above the LT-MDL

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	747	718	727	745	732	740	714	679	694	682	625	653
2	747	711	725	754	741	747	712	698	706	656	626	645
3	734	728	732	762	748	754	726	702	713	680	654	670
4	754	734	742	785	761	773	721	692	704	704	670	688
5	763	737	749	809	785	798	719	680	697	708	691	700
6	738	629	693	785	753	768	721	698	713	729	705	716
7	693	607	644	770	727	749	722	690	701	716	677	701
8	648	569	624	761	492	651	726	716	720	699	677	690
9	569	537	549	497	419	443	731	720	725	706	692	698
10	588	507	552	472	430	454	763	730	744	727	700	713
11	558	518	539	515	470	487	766	732	748	728	698	710
12	587	537	561	545	515	533	732	718	721	744	728	734
13	566	513	530	580	544	556	723	425	651	757	743	747
14	547	527	536	620	580	605	530	428	485	766	755	759
15	659	546	596	657	620	643	516	495	508	757	738	747
16	564	552	558	712	655	677	542	514	527	751	725	746
17	576	559	569	755	691	726	595	542	560	725	253	363
18	647	576	601	747	384	608	623	595	615	358	289	342
19	727	647	697	452	402	412	662	623	637	386	358	369
20	728	705	716	443	407	426	691	662	684	459	386	421
21	742	703	717	507	443	474	687	680	684	522	459	492
22	747	741	744	580	507	540	708	679	697	595	522	566
23	746	719	734	622	580	601	718	704	712	621	595	604
24	736	715	731	682	622	654	739	717	728	656	621	636
25	750	731	741	707	682	698	723	706	714	683	652	665
26	756	749	753	707	663	680	711	696	704	688	632	665
27	759	756	757	692	683	687	718	701	710	632	575	590
28	764	749	760	693	685	688	715	694	701	610	575	588
29	762	738	747	693	680	689	704	687	693	643	610	626
30	755	735	744	692	680	686	699	669	685	696	643	666
31	737	731	734	---	---	---	672	651	658	707	676	688
MONTH	764	507	671	809	384	632	766	425	675	766	253	632

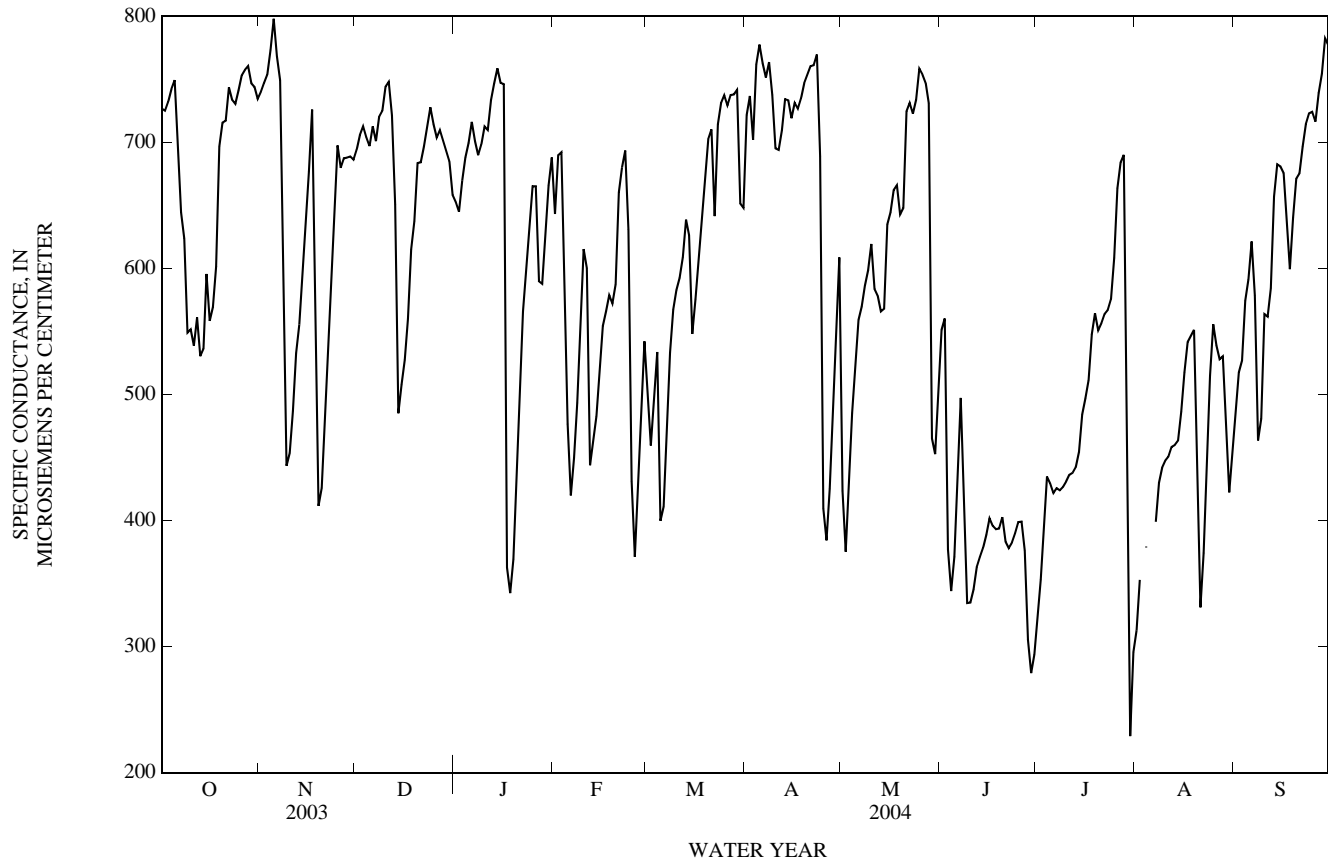
TRINITY RIVER BASIN

08062500 Trinity River near Rosser, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	708	617	643	559	464	498	741	705	722	609	249	423
2	725	625	690	475	451	460	744	729	737	414	288	375
3	728	618	692	524	470	494	745	664	702	459	389	424
4	654	579	618	553	509	534	773	703	762	504	459	485
5	579	386	477	509	330	400	782	771	778	534	504	518
6	451	382	420	434	399	411	772	750	763	580	533	559
7	461	445	450	508	434	471	756	747	752	581	562	570
8	519	461	493	550	508	533	785	752	764	592	578	586
9	588	519	557	583	549	567	784	704	738	613	582	599
10	645	588	615	597	573	583	704	691	695	642	589	619
11	667	468	600	614	578	593	712	689	694	598	565	584
12	472	412	444	616	604	609	732	689	709	613	542	578
13	484	424	463	687	609	639	747	715	734	591	543	566
14	500	472	483	712	516	626	751	724	733	601	543	568
15	554	495	520	575	516	548	740	694	719	659	601	635
16	560	547	554	600	565	576	735	726	731	656	626	645
17	581	555	566	627	590	611	731	723	727	674	652	662
18	590	561	579	660	602	644	739	726	735	680	650	666
19	574	568	572	694	659	674	753	736	747	679	614	643
20	623	574	587	710	694	703	759	747	754	701	628	648
21	680	623	660	728	645	710	770	750	760	738	701	725
22	686	677	680	683	627	642	765	755	761	743	714	731
23	708	686	694	724	683	714	786	761	770	734	715	723
24	738	452	631	754	711	731	785	508	689	756	715	734
25	511	331	431	748	723	737	508	366	410	764	752	759
26	408	327	371	734	725	729	407	357	384	760	747	754
27	446	406	422	745	733	738	453	407	425	756	740	747
28	505	444	481	745	729	738	515	453	484	753	657	731
29	568	505	542	758	675	742	579	515	548	657	416	465
30	---	---	---	702	541	651	624	579	609	473	422	453
31	---	---	---	705	542	648	---	---	---	525	473	495
MONTH	738	327	549	758	330	611	786	357	685	764	249	602
	JUNE			JULY			AUGUST			SEPTEMBER		
1	576	522	551	332	306	323	338	304	313	517	471	486
2	606	434	560	370	332	353	366	338	353	548	482	518
3	470	334	377	438	370	399	---	---	---	565	509	527
4	356	323	344	446	423	435	383	374	379	598	530	574
5	402	349	371	441	420	430	---	---	---	626	568	591
6	502	402	447	426	416	422	398	---	---	653	599	621
7	514	479	497	431	420	426	405	396	399	659	476	579
8	556	302	422	435	412	424	471	405	430	487	448	463
9	351	306	334	428	424	427	471	423	442	521	465	481
10	342	322	335	435	426	431	453	440	448	588	521	564
11	355	333	345	440	431	436	464	442	451	595	528	562
12	369	354	363	443	433	438	464	449	458	633	546	584
13	378	360	371	449	435	442	465	447	460	678	633	657
14	386	367	379	472	426	455	481	447	463	702	669	683
15	396	381	389	497	470	484	518	471	486	699	662	681
16	419	392	402	523	487	497	563	496	518	699	647	676
17	403	388	396	530	502	511	557	512	542	688	585	638
18	404	380	393	568	530	548	579	528	546	624	580	599
19	404	389	394	570	554	564	573	528	551	661	612	640
20	416	391	403	559	543	551	578	318	435	698	650	671
21	401	370	383	564	543	556	346	319	331	690	664	675
22	381	375	378	575	550	564	409	346	374	718	675	697
23	391	379	382	574	556	567	487	409	443	731	691	714
24	397	382	390	601	554	576	539	487	515	740	710	723
25	409	392	399	639	598	608	573	528	556	740	712	724
26	404	389	399	680	639	664	570	499	539	726	708	716
27	419	333	376	697	671	684	567	496	528	746	725	739
28	336	262	305	702	680	690	566	513	530	771	744	754
29	327	230	279	688	146	389	587	370	482	791	771	783
30	324	278	294	284	173	229	447	406	422	786	772	777
31	---	---	---	305	284	296	497	417	451	---	---	---
MONTH	606	230	389	702	146	478	---	---	---	791	448	637

08062500 Trinity River near Rosser, TX—Continued



PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

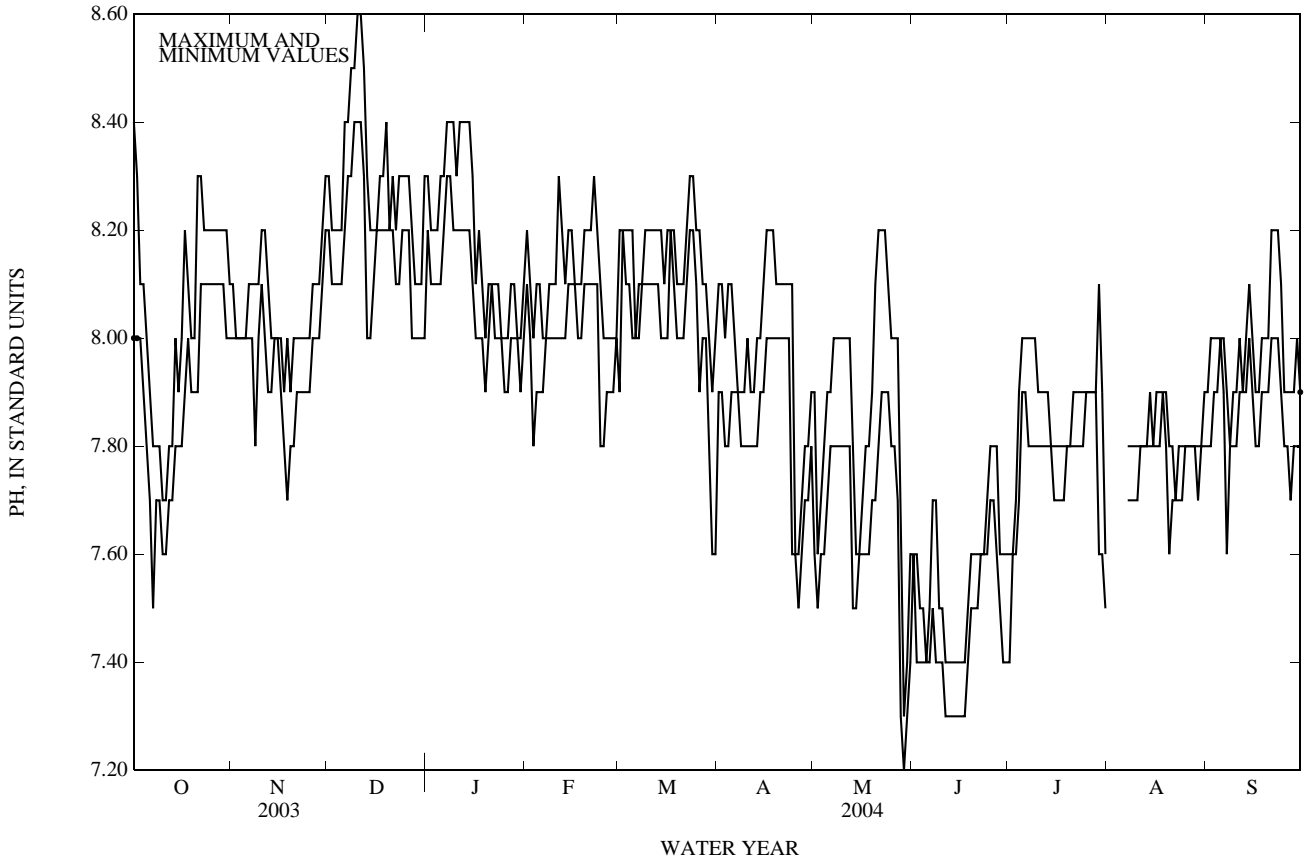
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.4	8.0	8.1	8.0	8.3	8.2	8.3	8.2	8.2	8.1	8.2	7.9
2	8.3	8.0	8.0	8.0	8.2	8.1	8.2	8.1	8.1	8.0	8.2	8.2
3	8.1	8.0	8.0	8.0	8.2	8.1	8.2	8.1	8.0	7.8	8.2	8.1
4	8.1	7.9	8.0	8.0	8.2	8.1	8.2	8.1	8.1	7.9	8.2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

TRINITY RIVER BASIN

08062500 Trinity River near Rosser, TX—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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



08062500 Trinity River near Rosser, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

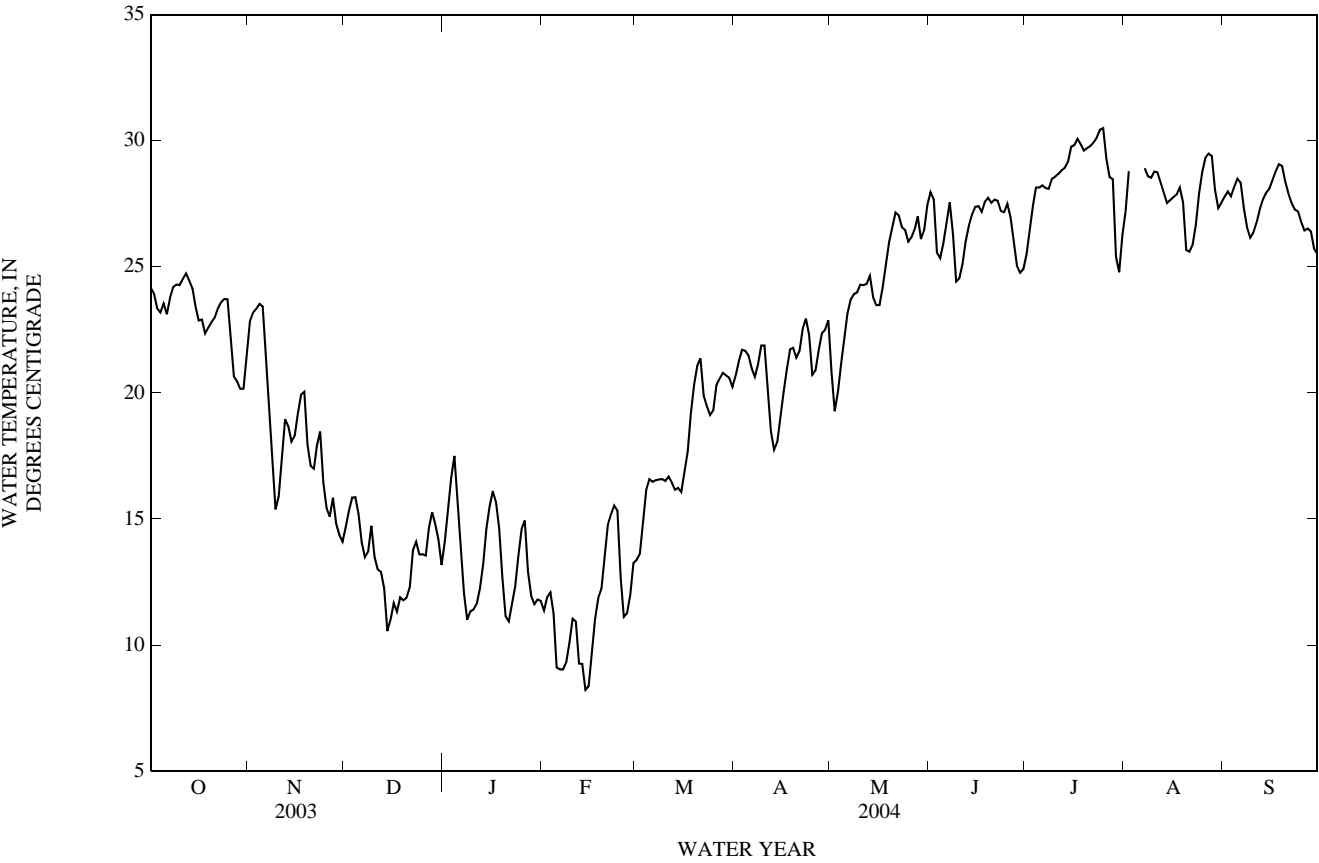
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	24.6	23.5	24.2	23.2	22.4	22.8	15.2	14.1	14.7	14.6	13.5	14.1
2	24.3	23.4	23.9	23.4	22.9	23.2	15.7	14.9	15.3	15.9	14.6	15.3
3	23.8	22.9	23.3	23.6	23.0	23.3	16.3	15.4	15.8	17.3	15.9	16.6
4	23.8	22.4	23.2	23.8	23.2	23.5	16.2	15.5	15.9	17.8	16.9	17.5
5	23.8	23.3	23.5	23.6	22.8	23.4	15.8	14.5	15.2	16.9	14.5	15.7
6	23.6	22.5	23.1	22.8	20.4	21.5	14.5	13.7	14.1	14.5	12.9	13.7
7	24.0	23.6	23.8	20.4	18.9	19.5	13.8	13.1	13.5	12.9	11.1	12.0
8	24.5	23.9	24.2	19.0	16.1	17.6	14.2	13.2	13.7	11.2	10.8	11.0
9	24.4	24.2	24.3	16.2	15.1	15.4	15.1	14.2	14.7	11.7	10.9	11.3
10	24.8	23.6	24.3	16.8	15.3	15.9	14.5	13.1	13.5	11.8	10.9	11.4
11	24.7	24.2	24.5	18.4	16.8	17.5	13.3	12.6	13.0	12.1	11.0	11.6
12	24.8	24.6	24.7	19.4	18.4	19.0	13.1	12.6	12.9	12.6	11.8	12.3
13	24.7	24.1	24.5	19.2	18.2	18.7	12.9	11.0	12.3	14.0	12.6	13.2
14	24.5	23.6	24.1	18.2	17.9	18.1	11.1	10.3	10.5	15.3	14.0	14.6
15	23.8	22.9	23.4	18.6	17.9	18.3	11.7	10.5	11.0	15.9	15.2	15.5
16	23.1	22.6	22.9	19.7	18.6	19.2	11.8	11.4	11.7	16.9	15.8	16.1
17	23.3	22.5	22.9	20.2	19.7	19.9	11.7	11.0	11.3	16.9	15.4	15.7
18	22.8	21.8	22.4	20.8	19.0	20.0	12.3	11.6	11.9	15.6	13.8	14.6
19	23.3	21.9	22.6	19.0	17.6	17.9	12.1	11.4	11.8	13.8	11.6	12.7
20	23.4	22.2	22.8	17.6	16.8	17.1	12.3	11.4	11.9	11.6	10.8	11.1
21	23.6	22.3	23.0	17.4	16.7	17.0	12.8	11.8	12.3	11.2	10.6	10.9
22	24.0	22.6	23.3	18.8	17.3	17.9	14.5	12.7	13.8	12.0	11.2	11.6
23	24.1	22.9	23.6	19.0	17.2	18.5	14.4	13.6	14.1	12.9	12.0	12.3
24	24.2	23.1	23.7	17.2	16.1	16.4	14.0	13.2	13.6	14.0	12.9	13.5
25	24.2	23.2	23.7	16.1	14.9	15.4	14.0	13.4	13.6	15.3	14.0	14.6
26	23.4	21.0	22.1	15.7	14.6	15.1	13.9	13.1	13.5	15.4	13.9	14.9
27	21.0	20.2	20.6	16.3	15.3	15.8	15.3	13.9	14.7	13.9	12.4	12.9
28	20.8	19.9	20.5	15.3	14.5	14.8	15.4	15.2	15.3	12.4	11.8	11.9
29	20.5	19.7	20.2	14.8	14.0	14.4	15.2	14.4	14.8	11.8	11.4	11.6
30	20.8	19.6	20.2	14.5	13.6	14.1	14.7	13.5	14.2	12.2	11.6	11.8
31	22.4	20.8	21.5	---	---	---	13.5	12.8	13.2	12.0	11.7	11.7
MONTH	24.8	19.6	23.1	23.8	13.6	18.4	16.3	10.3	13.5	17.8	10.6	13.3
FEBRUARY			MARCH			APRIL			MAY			
1	11.8	11.1	11.4	13.8	12.9	13.4	21.1	20.1	20.7	23.0	18.9	20.8
2	12.4	11.4	11.9	14.4	13.0	13.6	21.6	20.8	21.3	19.9	18.6	19.3
3	12.4	11.7	12.1	15.8	14.4	14.9	22.3	21.2	21.7	21.0	19.3	20.0
4	12.1	10.1	11.2	16.7	15.8	16.1	22.2	21.3	21.7	22.0	20.5	21.2
5	10.1	8.6	9.1	17.1	16.1	16.6	21.9	21.2	21.5	22.9	21.4	22.1
6	9.5	8.5	9.0	16.9	16.1	16.5	21.4	20.4	21.0	23.8	22.5	23.2
7	9.4	8.6	9.0	17.0	16.0	16.5	21.0	20.3	20.6	24.1	23.2	23.7
8	9.5	9.0	9.3	16.9	16.1	16.6	21.7	20.7	21.1	24.1	23.6	23.9
9	10.8	9.5	10.1	16.9	16.2	16.6	22.3	21.4	21.9	24.5	23.5	24.0
10	11.6	10.7	11.0	16.9	16.0	16.5	22.2	21.2	21.9	24.5	23.9	24.3
11	12.0	9.0	10.9	17.0	16.2	16.7	21.2	18.9	20.0	24.6	23.9	24.3
12	9.9	8.8	9.3	17.0	16.0	16.4	18.9	18.0	18.5	24.9	23.8	24.3
13	9.7	8.9	9.2	16.8	15.7	16.2	18.1	17.3	17.7	24.9	24.2	24.6
14	8.9	7.9	8.2	16.8	15.6	16.2	18.6	17.5	18.0	24.2	23.5	23.8
15	9.4	7.6	8.4	16.7	15.6	16.1	19.6	18.2	19.0	23.8	23.2	23.5
16	10.5	9.1	9.7	17.4	16.3	16.9	20.8	19.5	20.0	23.9	23.0	23.5
17	11.8	10.4	11.0	18.4	17.0	17.7	21.6	20.2	20.9	24.7	23.7	24.2
18	12.2	11.6	11.9	20.0	18.4	19.2	22.2	21.2	21.7	25.8	24.6	25.1
19	12.9	11.7	12.2	20.5	20.0	20.3	22.1	21.6	21.8	26.5	25.6	26.0
20	14.4	12.9	13.5	21.9	20.4	21.1	21.6	21.2	21.4	27.4	26.0	26.6
21	15.1	14.4	14.8	21.9	20.5	21.4	22.3	21.1	21.7	27.7	26.6	27.2
22	15.4	14.9	15.2	20.5	19.7	19.9	23.1	22.2	22.5	27.5	26.7	27.0
23	15.8	15.3	15.5	19.7	19.3	19.5	23.3	22.6	22.9	26.9	26.1	26.6
24	16.1	14.1	15.3	19.3	19.0	19.1	23.1	21.0	22.3	26.8	26.2	26.5
25	14.2	11.1	12.7	19.8	19.0	19.3	21.3	20.3	20.7	26.3	25.7	26.0
26	11.5	10.7	11.1	20.8	19.8	20.3	21.6	20.4	20.9	26.7	25.7	26.2
27	11.9	10.7	11.3	20.8	20.4	20.6	22.6	21.0	21.7	27.1	26.0	26.5
28	12.7	11.6	12.0	21.2	20.6	20.8	22.7	22.1	22.4	27.8	26.3	27.0
29	13.8	12.7	13.3	21.2	20.2	20.7	23.0	21.9	22.5	27.1	25.5	26.1
30	---	---	---	21.0	20.3	20.6	23.1	22.5	22.9	27.1	26.0	26.4
31	---	---	---	20.6	19.9	20.2	---	---	---	28.0	27.0	27.5
MONTH	16.1	7.6	11.4	21.9	12.9	18.0	23.3	17.3	21.1	28.0	18.6	24.6

TRINITY RIVER BASIN

08062500 Trinity River near Rosser, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.7	27.4	28.0	26.0	25.1	25.5	28.4	27.0	27.2	28.2	27.4	27.8
2	28.4	26.7	27.7	27.1	25.9	26.4	29.6	28.4	28.8	28.4	27.7	28.0
3	26.7	25.0	25.6	28.2	26.9	27.4	---	---	---	28.2	27.4	27.8
4	25.9	24.8	25.3	28.7	27.7	28.1	---	---	---	28.7	27.8	28.2
5	26.7	25.4	25.9	28.5	27.8	28.1	---	---	---	28.7	28.2	28.5
6	27.5	26.3	26.8	28.7	27.8	28.2	---	---	---	28.6	27.8	28.3
7	27.9	27.2	27.6	28.5	27.7	28.1	29.2	28.5	28.9	27.8	27.0	27.3
8	27.8	24.2	26.3	28.6	27.6	28.1	29.0	28.1	28.6	27.4	26.1	26.6
9	24.7	24.2	24.4	29.0	28.1	28.5	29.0	28.1	28.5	26.6	25.7	26.2
10	24.7	24.3	24.5	28.9	28.2	28.6	29.4	28.2	28.8	26.8	25.8	26.4
11	25.8	24.6	25.1	29.1	28.2	28.7	29.3	28.4	28.8	27.1	26.3	26.8
12	26.4	25.6	26.0	29.2	28.4	28.8	28.8	27.7	28.3	27.9	26.6	27.3
13	26.9	26.4	26.6	29.4	28.4	28.9	28.6	27.6	27.9	28.2	27.0	27.7
14	27.3	26.8	27.1	30.0	28.4	29.2	27.9	27.0	27.5	28.3	27.5	27.9
15	27.5	27.2	27.4	30.4	29.1	29.8	28.1	27.2	27.6	28.6	27.5	28.1
16	27.8	27.2	27.4	30.2	29.4	29.8	28.1	27.4	27.8	28.9	28.1	28.4
17	27.5	26.8	27.2	30.4	29.8	30.1	28.3	27.4	27.9	29.3	28.4	28.8
18	28.1	27.2	27.6	30.2	29.5	29.9	28.5	27.8	28.1	29.5	28.6	29.1
19	28.1	27.4	27.7	30.1	29.1	29.6	28.4	26.4	27.6	29.5	28.5	29.0
20	28.0	27.1	27.5	30.2	29.3	29.7	26.5	25.2	25.7	28.9	27.8	28.4
21	28.2	27.2	27.7	30.2	29.4	29.8	25.8	25.3	25.6	28.3	27.4	27.9
22	28.0	27.4	27.6	30.5	29.4	29.9	26.4	25.5	25.9	28.0	27.0	27.5
23	27.5	26.8	27.2	30.7	29.6	30.1	27.3	26.3	26.7	27.8	26.7	27.3
24	27.8	26.6	27.2	31.0	29.9	30.4	28.7	27.2	27.9	27.7	26.7	27.2
25	27.9	27.2	27.5	30.9	30.1	30.5	29.3	28.3	28.8	27.2	26.4	26.8
26	27.5	26.5	27.0	30.1	28.6	29.3	29.8	28.8	29.3	26.8	25.9	26.4
27	26.5	25.6	26.0	29.2	28.0	28.6	29.9	29.0	29.5	26.9	26.0	26.5
28	25.6	24.5	25.0	28.8	28.1	28.5	29.6	29.0	29.4	26.9	25.8	26.4
29	25.6	24.0	24.8	28.1	23.5	25.4	29.0	27.3	28.0	26.3	25.1	25.7
30	25.5	24.7	24.9	25.8	23.9	24.8	27.7	26.9	27.3	25.9	25.0	25.5
31	---	---	---	27.0	25.8	26.3	27.9	27.1	27.5	---	---	---
MONTH	28.7	24.0	26.6	31.0	23.5	28.6	---	---	---	29.5	25.0	27.5



08062500 Trinity River near Rosser, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

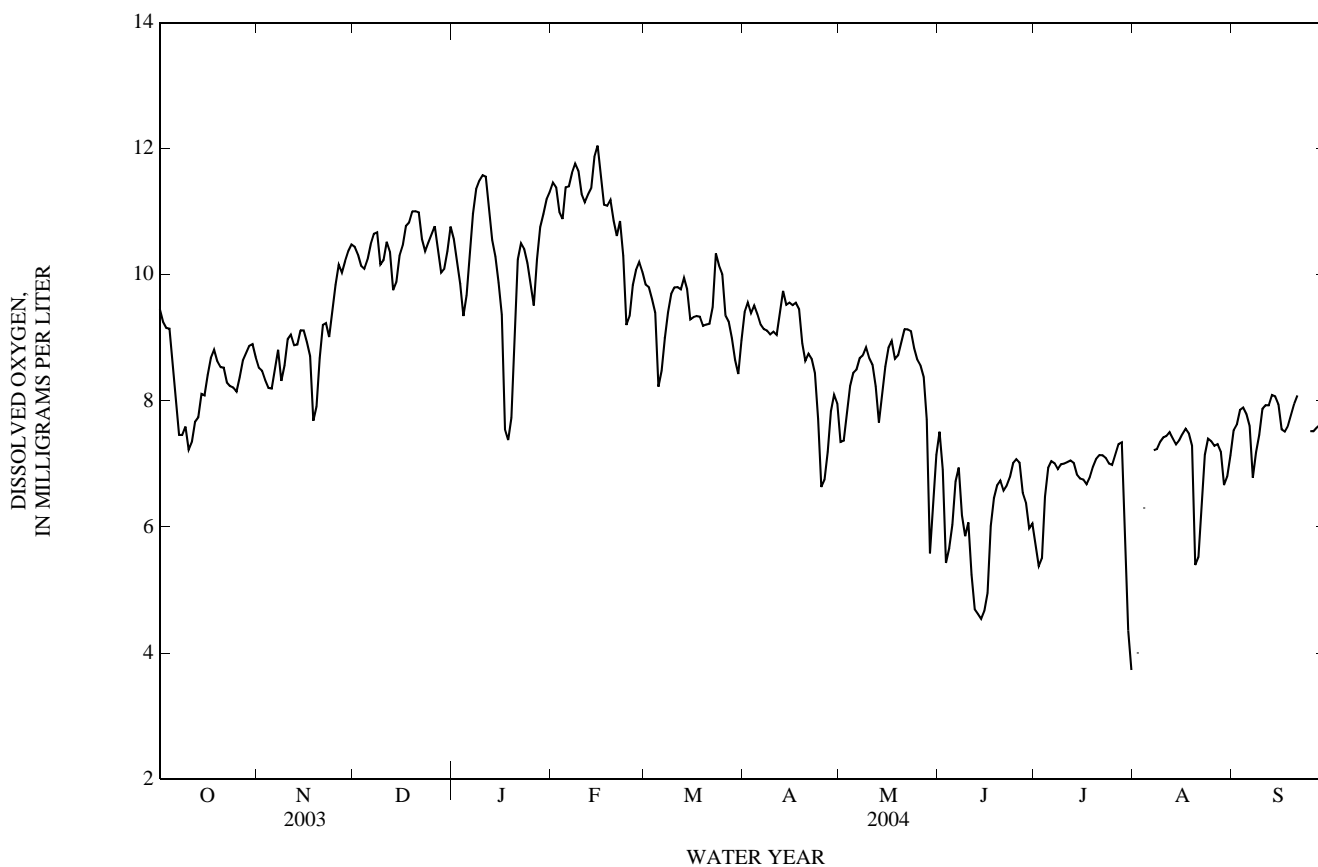
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.6	8.5	9.5	8.8	8.2	8.5	10.8	10.2	10.4	10.9	10.4	10.6
2	10.1	8.5	9.3	8.7	8.2	8.5	10.7	10.1	10.3	10.5	10.0	10.2
3	9.8	8.6	9.2	8.5	8.1	8.3	10.5	9.9	10.1	10.2	9.6	9.9
4	9.8	8.5	9.1	8.4	8.0	8.2	10.5	9.8	10.1	9.6	9.1	9.3
5	9.2	8.3	8.6	8.3	8.1	8.2	10.6	9.9	10.2	10.2	9.2	9.7
6	8.3	7.8	8.1	8.8	8.2	8.5	10.8	10.1	10.5	10.8	9.9	10.3
7	8.0	7.1	7.5	8.9	8.7	8.8	11.1	10.3	10.7	11.3	10.5	11.0
8	7.7	7.2	7.5	9.1	6.7	8.3	11.3	10.3	10.7	11.7	11.1	11.4
9	7.7	7.5	7.6	8.7	8.2	8.6	10.5	9.9	10.2	12.0	11.1	11.5
10	7.6	6.9	7.2	9.2	8.6	9.0	10.7	9.8	10.2	12.1	11.2	11.6
11	7.6	6.9	7.3	9.1	9.0	9.1	11.0	10.2	10.5	12.1	11.2	11.6
12	7.8	7.6	7.7	9.0	8.8	8.9	10.6	10.2	10.4	11.6	10.6	11.0
13	8.0	7.5	7.7	9.1	8.8	8.9	10.3	8.9	9.8	11.1	10.3	10.6
14	8.4	7.8	8.1	9.2	9.0	9.1	10.8	9.2	9.9	10.8	10.0	10.3
15	8.3	7.9	8.1	9.2	9.0	9.1	10.4	10.2	10.3	10.3	9.6	9.9
16	8.7	8.1	8.4	9.1	8.8	8.9	10.6	10.3	10.5	9.6	8.9	9.4
17	9.1	8.3	8.7	8.9	8.5	8.7	11.0	10.6	10.8	8.9	7.1	7.5
18	9.2	8.2	8.8	8.6	6.4	7.7	11.1	10.6	10.8	7.6	7.3	7.4
19	8.9	8.3	8.6	8.3	7.3	7.9	11.3	10.7	11.0	8.4	7.3	7.7
20	8.9	8.2	8.5	9.0	8.3	8.7	11.3	10.7	11.0	9.8	8.4	9.2
21	9.0	8.3	8.5	9.3	9.0	9.2	11.4	10.7	11.0	10.5	9.8	10.2
22	8.5	8.1	8.3	9.3	9.1	9.2	10.9	10.0	10.6	10.5	10.5	10.5
23	8.5	8.0	8.2	9.1	8.9	9.0	10.7	10.0	10.4	10.5	10.4	10.4
24	8.5	8.0	8.2	9.7	9.1	9.4	10.9	10.2	10.5	10.4	10.0	10.2
25	8.4	8.0	8.1	10.2	9.5	9.8	11.1	10.2	10.6	10.0	9.6	9.9
26	8.7	8.1	8.4	10.4	10.0	10.2	11.3	10.4	10.8	9.8	9.3	9.5
27	8.9	8.4	8.6	10.3	9.8	10.0	10.7	10.1	10.4	10.5	9.8	10.2
28	9.0	8.6	8.8	10.6	9.9	10.2	10.4	9.9	10.0	10.9	10.5	10.8
29	9.1	8.6	8.9	10.7	10.0	10.4	10.3	9.9	10.1	11.1	10.9	11.0
30	9.1	8.7	8.9	10.8	10.1	10.5	10.6	10.1	10.4	11.8	10.9	11.2
31	8.9	8.5	8.7	---	---	---	11.3	10.5	10.8	11.5	11.2	11.3
MONTH	10.6	6.9	8.4	10.8	6.4	9.0	11.4	8.9	10.5	12.1	7.1	10.2
FEBRUARY			MARCH			APRIL			MAY			
1	11.8	11.2	11.5	10.3	9.5	9.8	10.0	8.9	9.4	7.8	6.9	7.3
2	11.7	11.2	11.4	9.9	9.7	9.8	10.2	9.0	9.6	7.5	7.2	7.4
3	11.2	10.7	11.0	9.7	9.4	9.6	9.9	8.8	9.4	8.0	7.5	7.8
4	11.1	10.7	10.9	9.7	9.1	9.4	10.0	8.8	9.5	8.5	8.0	8.2
5	11.7	11.1	11.4	9.1	7.7	8.2	9.9	8.8	9.4	8.7	8.1	8.4
6	11.5	11.3	11.4	8.6	8.2	8.5	9.6	8.8	9.2	8.7	8.3	8.5
7	11.7	11.4	11.6	9.2	8.6	9.0	9.4	8.8	9.1	9.0	8.4	8.7
8	11.8	11.7	11.8	9.6	9.2	9.4	9.3	8.9	9.1	9.1	8.4	8.7
9	11.8	11.4	11.7	9.9	9.4	9.7	9.5	8.7	9.1	9.2	8.5	8.8
10	11.5	11.0	11.3	9.9	9.6	9.8	9.3	8.8	9.1	9.0	8.4	8.7
11	11.7	10.8	11.2	10.0	9.7	9.8	9.2	8.9	9.0	8.8	8.3	8.6
12	11.7	11.0	11.3	9.9	9.6	9.8	9.7	9.1	9.4	8.7	7.7	8.2
13	11.7	11.2	11.4	10.1	9.8	10	10.1	9.5	9.7	8.0	7.4	7.7
14	12.1	11.7	11.9	10.0	9.3	9.8	9.8	9.3	9.5	8.5	7.7	8.1
15	12.2	11.7	12.1	9.5	8.6	9.3	10.0	9.2	9.6	8.8	8.3	8.5
16	11.7	11.5	11.6	9.6	7.9	9.3	10.1	9.0	9.5	9.1	8.6	8.8
17	11.5	10.9	11.1	9.5	9.2	9.3	10.1	9.0	9.6	9.4	8.5	8.9
18	11.3	10.9	11.1	9.6	9.0	9.3	10.1	8.9	9.5	9.1	8.3	8.7
19	11.3	11.0	11.2	9.3	9.1	9.2	9.4	8.5	8.9	9.3	8.2	8.7
20	11.1	10.6	10.9	9.7	8.9	9.2	9.0	8.3	8.6	9.9	8.2	8.9
21	10.9	10.3	10.6	9.9	8.8	9.2	9.2	8.4	8.7	10.0	8.2	9.1
22	11.4	10.3	10.9	9.9	9.0	9.5	9.1	8.3	8.7	10.1	8.2	9.1
23	10.7	9.8	10.3	10.9	9.7	10.3	8.8	7.4	8.4	10.1	8.1	9.1
24	10.0	8.3	9.2	10.5	9.9	10.1	8.3	6.5	7.7	9.6	8.1	8.8
25	9.8	8.8	9.3	10.4	9.7	10.0	7.0	6.1	6.6	9.3	8.0	8.7
26	10.0	9.8	9.8	9.8	8.9	9.4	6.9	6.6	6.7	9.3	7.9	8.6
27	10.2	10.0	10.1	9.7	8.9	9.3	7.6	6.7	7.2	9.1	7.9	8.4
28	10.3	10.1	10.2	9.4	8.8	9.0	8.1	7.6	7.8	8.4	5.6	7.7
29	10.3	9.9	10.0	8.9	8.3	8.7	8.2	8.0	8.1	5.9	4.9	5.6
30	---	---	---	8.8	8.0	8.4	8.1	6.9	8.0	6.9	5.9	6.4
31	---	---	---	9.6	8.0	9.0	---	---	---	7.5	6.7	7.1
MONTH	12.2	8.3	11.0	10.9	7.7	9.4	10.2	6.1	8.8	10.1	4.9	8.3

TRINITY RIVER BASIN

08062500 Trinity River near Rosser, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.6	7.4	7.5	6.0	5.4	5.7	4.0	---	---	7.7	7.3	7.5
2	7.6	5.6	6.9	5.4	5.3	5.4	4.4	3.7	4.0	7.8	7.4	7.6
3	5.8	5.1	5.4	5.9	5.3	5.5	---	---	---	8.0	7.6	7.9
4	5.8	5.4	5.7	6.8	5.9	6.5	6.6	6.1	6.3	8.1	7.7	7.9
5	6.5	5.7	6.0	7.1	6.8	6.9	---	---	---	8.0	7.6	7.8
6	6.9	6.5	6.7	7.2	6.9	7.0	7.2	---	---	7.8	7.4	7.6
7	7.2	6.8	6.9	7.1	6.8	7.0	7.4	7.0	7.2	7.7	5.5	6.8
8	7.2	5.1	6.2	7.0	6.7	6.9	7.4	7.1	7.2	7.4	7.0	7.2
9	6.1	5.6	5.9	7.1	6.9	7.0	7.5	7.2	7.3	7.7	7.3	7.5
10	6.3	5.7	6.1	7.1	6.9	7.0	7.5	7.3	7.4	8.3	7.5	7.9
11	5.7	4.9	5.2	7.1	7.0	7.0	7.7	7.3	7.4	8.1	7.7	7.9
12	4.9	4.5	4.7	7.1	7.0	7.1	7.6	7.4	7.5	8.0	7.7	7.9
13	4.7	4.6	4.6	7.1	6.8	7.0	7.7	7.2	7.4	8.5	7.7	8.1
14	4.7	4.3	4.5	6.9	6.7	6.8	7.4	7.2	7.3	8.3	7.8	8.1
15	4.9	4.4	4.7	7.1	6.7	6.8	7.4	7.3	7.4	8.2	7.7	7.9
16	5.4	4.6	5.0	6.9	6.6	6.8	7.6	7.4	7.5	7.8	7.4	7.5
17	6.3	5.4	6.0	6.8	6.6	6.7	7.6	7.5	7.6	7.7	7.4	7.5
18	6.5	6.3	6.5	6.9	6.7	6.8	7.6	7.4	7.5	7.8	7.3	7.6
19	6.7	6.5	6.7	7.1	6.9	7.0	7.7	6.5	7.3	8.1	7.5	7.8
20	6.8	6.7	6.7	7.1	7.0	7.1	6.8	4.7	5.4	8.3	7.7	8.0
21	6.8	6.5	6.6	7.2	7.1	7.1	5.9	5.2	5.5	8.4	7.9	8.1
22	6.7	6.6	6.7	7.2	7.0	7.1	7.0	5.8	6.4	---	---	---
23	6.9	6.7	6.8	7.2	7.0	7.1	7.3	7.0	7.1	---	---	---
24	7.1	6.9	7.0	7.1	6.8	7.0	7.6	7.3	7.4	---	---	---
25	7.1	7.0	7.1	7.1	6.9	7.0	7.4	7.3	7.4	7.7	7.2	7.5
26	7.1	7.0	7.0	7.3	7.1	7.1	7.4	7.1	7.3	7.9	7.2	7.5
27	7.0	6.2	6.5	7.5	7.2	7.3	7.4	7.2	7.3	7.9	7.2	7.6
28	6.6	6.0	6.4	7.5	7.3	7.3	7.4	7.1	7.2	7.9	7.3	7.6
29	6.1	5.8	6.0	7.5	4.8	6.0	7.2	6.2	6.7	8.4	7.5	7.9
30	6.2	5.9	6.1	5.1	3.8	4.4	7.0	6.7	6.8	8.3	7.7	8.0
31	---	---	---	3.9	3.6	3.7	7.4	6.9	7.1	---	---	---
MONTH	7.6	4.3	6.1	7.5	3.6	6.6	---	---	---	---	---	---



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08062700 Trinity River at Trinidad, TX

LOCATION.--Lat 32°08'05", long 96°06'20", Henderson County, Hydrologic Unit 12030105, on left bank at pumping station of Texas Power and Light Co., near southwest boundary of Trinidad, 0.5 mi downstream from St. Louis Southwestern Railway Lines bridge, 0.9 mi downstream from bridge on State Highway 31, 8.0 mi upstream from Cedar Creek, and at mile 391.2.

DRAINAGE AREA.--8,538 mi².not including 1,007 mi² upstream from Cedar Creek Reservoir.

PERIOD OF RECORD.--Oct. 1964 to current year. Records of gage height collected in this vicinity for period Oct. 1913 to Sept. 1915 are contained in reports of U.S. Army Corps of Engineers, and records collected since Oct. 1915 are contained in reports of the National Weather Service. Water-quality records: Chemical data: May 1966 to June 1994. Biochemical data: May 1966 to June 1994. Pesticide data: Nov. 1977 to June 1982. Sediment data: Nov. 1977 to June 1994. Specific conductance: Sept. 1967 to Sept. 1981, May 1986 to Sept. 2000. pH: Sept. 1967 to Oct. 1969, May 1986 to Sept. 2000. Water temperature: Sept. 1967 to Sept. 1981, May 1986 to Sept. 2000. Dissolved oxygen: Sept. 1967 to Oct. 1969, May 1986 to Sept. 2000.

REVISED RECORDS.--WDR TX-89-1: 1988. WDR TX-90-1: 1989.

GAGE.--Water-stage recorder. Datum of gage is 239.21 ft above NGVD of 1929. Prior to May 3, 1967, at site 0.9 mi upstream at datum 1.28 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1964, at least 10% of contributing drainage area has been regulated.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1908, 49.8 ft, Apr. 25, 1942, and 48.3 ft, date unknown (present site and datum), from records of the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

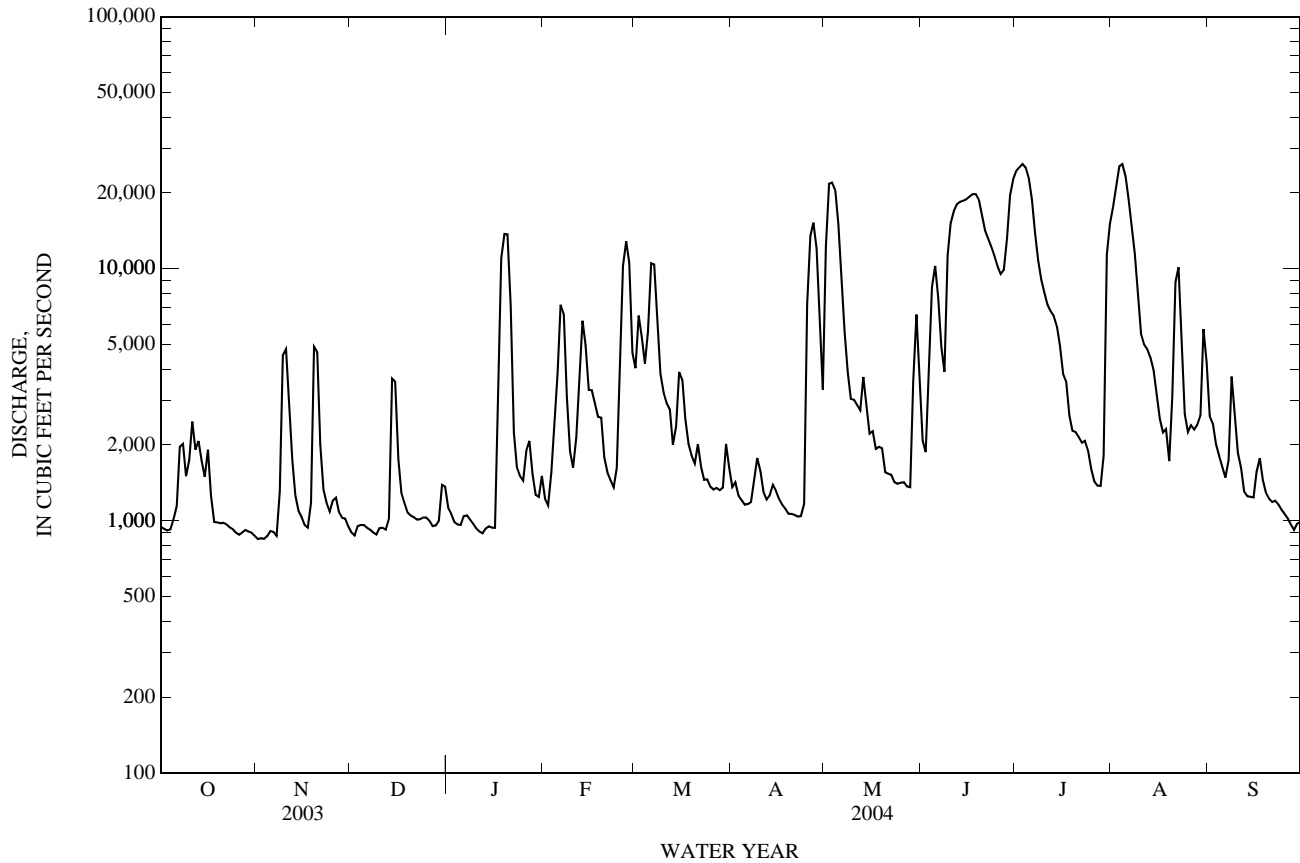
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	946	847	899	1,120	1,230	4,040	1,360	12,200	2,080	24,400	17,600	2,610
2	930	854	875	1,070	1,150	6,520	1,420	21,700	1,870	25,300	21,200	2,430
3	915	849	952	988	1,560	5,390	1,260	22,000	4,450	26,000	25,500	2,020
4	925	869	964	968	2,570	4,210	1,210	20,500	8,460	25,200	26,000	1,810
5	1,020	911	962	964	3,830	5,620	1,160	15,000	10,300	22,900	23,300	1,650
6	1,150	904	939	1,040	7,200	10,500	1,170	9,490	7,690	18,800	18,900	1,490
7	1,970	873	923	1,050	6,600	10,400	1,190	5,630	4,880	13,900	14,300	1,740
8	2,020	1,310	898	1,010	3,120	6,340	1,450	3,870	3,900	10,800	11,400	3,730
9	1,510	4,530	883	974	1,890	3,830	1,780	3,050	11,300	9,080	7,740	2,590
10	1,750	4,800	937	934	1,630	3,230	1,580	3,020	15,200	8,020	5,510	1,860
11	2,480	3,110	938	908	2,140	2,930	1,300	2,890	17,000	7,210	5,000	1,620
12	1,910	1,750	923	893	3,660	2,770	1,220	2,750	18,000	6,790	4,790	1,310
13	2,070	1,260	1,020	934	6,220	2,000	1,260	3,730	18,400	6,510	4,450	1,250
14	1,720	1,100	3,670	952	4,990	2,370	1,390	2,840	18,600	5,910	3,960	1,250
15	1,490	1,040	3,570	941	3,310	3,900	1,320	2,220	18,900	4,960	3,160	1,240
16	1,920	962	1,760	938	3,300	3,630	1,220	2,260	19,300	3,830	2,540	1,570
17	1,260	940	1,290	2,840	2,920	2,520	1,160	1,930	19,800	3,570	2,240	1,770
18	990	1,180	1,170	11,000	2,590	2,010	1,120	1,970	19,800	2,610	2,310	1,450
19	986	4,910	1,080	13,700	2,560	1,820	1,070	1,940	18,800	2,280	1,730	1,290
20	978	4,670	1,050	13,700	1,790	1,690	1,070	1,560	16,500	2,250	3,100	1,220
21	984	2,010	1,030	7,180	1,560	2,020	1,050	1,540	14,200	2,150	8,870	1,190
22	967	1,330	1,010	2,240	1,450	1,640	1,040	1,520	13,200	2,040	10,100	1,200
23	943	1,180	1,020	1,630	1,360	1,460	1,050	1,420	12,200	2,080	5,780	1,160
24	927	1,090	1,030	1,500	1,620	1,460	1,170	1,400	11,200	1,890	2,650	1,110
25	899	1,200	1,030	1,440	4,900	1,370	7,230	1,420	10,200	1,610	2,250	1,060
26	882	1,240	999	1,900	10,300	1,330	13,500	1,420	9,540	1,430	2,400	1,020
27	899	1,080	954	2,080	12,900	1,350	15,200	1,370	9,880	1,380	2,310	965
28	919	1,030	960	1,520	10,600	1,320	12,000	1,360	13,200	1,380	2,400	920
29	908	1,020	1,000	1,270	4,640	1,350	6,530	3,590	19,500	1,810	2,610	975
30	897	950	1,390	1,240	---	2,020	3,310	6,580	22,700	11,400	5,770	990
31	872	---	1,370	1,510	---	1,640	---	3,960	---	15,000	4,230	---
TOTAL	39,037	49,799	37,496	80,434	113,590	102,680	87,790	166,130	391,050	272,490	254,100	46,490
MEAN	1,259	1,660	1,210	2,595	3,917	3,312	2,926	5,359	13,040	8,790	8,197	1,550
MAX	2,480	4,910	3,670	13,700	12,900	10,500	15,200	22,000	22,700	26,000	26,000	3,730
MIN	872	847	875	893	1,150	1,320	1,040	1,360	1,870	1,380	1,730	920
AC-FT	77,430	98,780	74,370	159,500	225,300	203,700	174,100	329,500	775,600	540,500	504,000	92,210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	MEAN	2,590	3,732	4,759	3,675	5,398	6,765	6,048	8,765	6,386	2,577	1,520	1,290
MAX	11,390	20,160	24,320	20,490	20,550	28,360	20,550	47,120	26,790	11,800	8,197	3,347	
(WY)	(1974)	(1975)	(1992)	(1992)	(1992)	(2001)	(1997)	(1990)	(1989)	(1982)	(2004)	(1974)	
MIN	417	403	460	415	424	542	798	693	526	394	394	448	
(WY)	(1976)	(1967)	(1967)	(1967)	(1967)	(1967)	(1978)	(1971)	(1972)	(1972)	(1967)	(1972)	

08062700 Trinity River at Trinidad, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	913,652		1,641,086		4,453	
ANNUAL MEAN	2,503		4,484		11,400	
HIGHEST ANNUAL MEAN					854	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	23,400	Feb 25	26,000	Jul 3	94,100	May 7, 1990
LOWEST DAILY MEAN	740	May 12	847	Nov 1	312	Aug 9, 1972
ANNUAL SEVEN-DAY MINIMUM	800	Aug 3	871	Oct 29	326	Jul 7, 1972
MAXIMUM PEAK FLOW			26,600	Aug 4	94,500	May 7, 1990
MAXIMUM PEAK STAGE			32.25	Aug 4	48.11	May 7, 1990
ANNUAL RUNOFF (AC-FT)	1,812,000		3,255,000		3,226,000	
10 PERCENT EXCEEDS	4,700		13,600		12,400	
50 PERCENT EXCEEDS	1,230		1,820		1,330	
90 PERCENT EXCEEDS	874		945		530	



08062730 New Terrell City Lake near Terrell, TX

LOCATION.--Lat 32°43'42", long 96°10'24", Kaufman County, Hydrologic Unit 12030107, on intake structure on Muddy Cedar Creek, approximately 1.0 mi northwest of Elmo, and 5.0 mi east of Terrell.

DRAINAGE AREA.--14.3 mi².

PERIOD OF RECORD.--Apr. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water data recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by an earthfill embankment 4,700 ft long. The dam was begun in Feb. 1955 and completed in Nov. of the same year. Deliberate impoundment began when the construction was completed but the lake did not fill until May, 1957. A 40 foot uncontrolled concrete weir spillway and chute are located near the left (east) end of the embankment. The emergency spillway is an earth trench cut through natural ground and is located at the right(west) end of the embankment. The dam was built by the city of Terrell to impound water for municipal use. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	514.2
Crest of spillway	508.8
Crest of emergency spillway	507.0

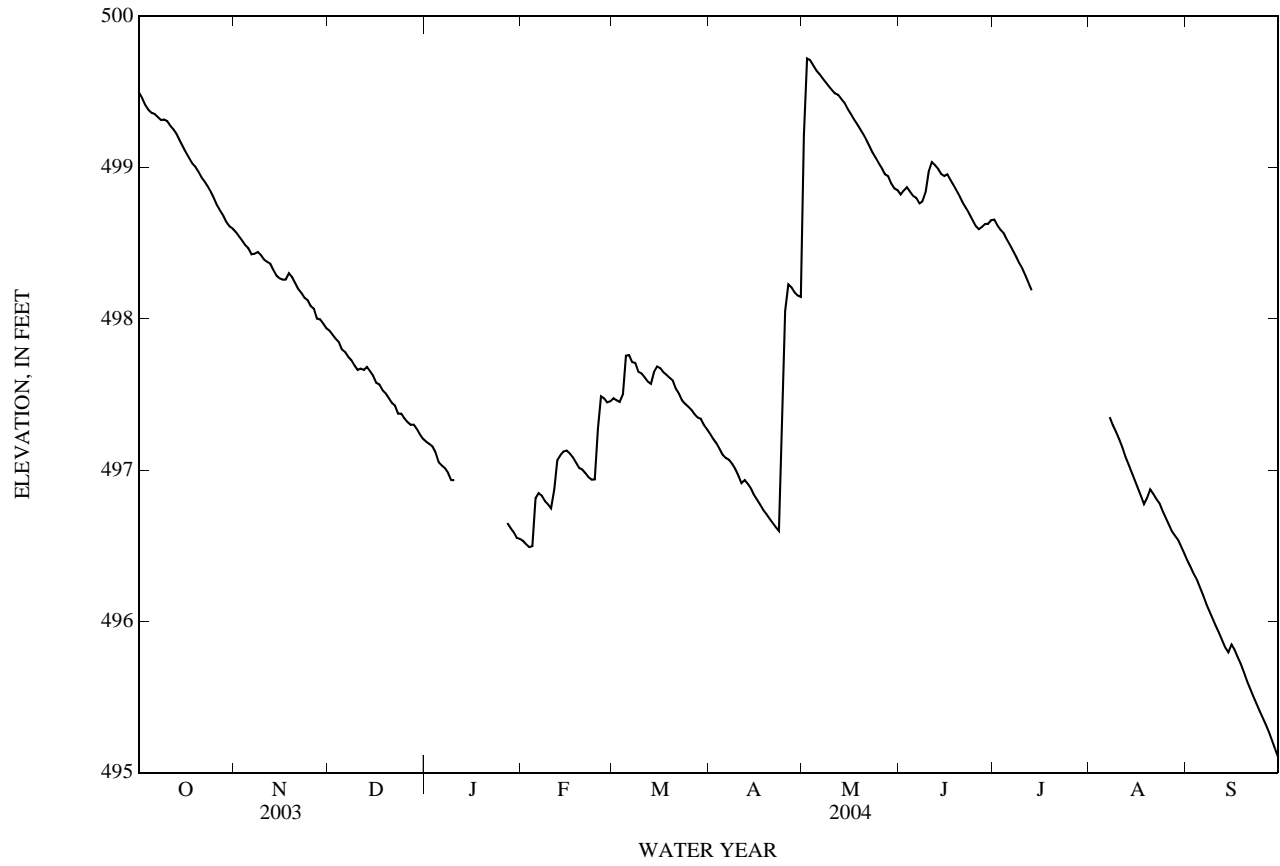
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 11,840 acre-ft, June 10, 2002, elevation, 507.31 ft; minimum contents, 3,800 acre-ft, Apr. 30, 2000, elevation, 497.29 ft; minimum elevation, 495.07 ft, Sept. 30, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 499.75 ft, May 3; minimum elevation, 495.07 ft, Sept. 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499.50	498.57	497.92	497.19	496.53	497.48	497.24	499.21	498.82	498.66	---	496.40
2	499.46	498.55	497.89	497.17	496.51	497.46	497.20	499.72	498.85	498.62	---	496.36
3	499.41	498.52	497.87	497.16	496.49	497.45	497.18	499.71	498.87	498.59	---	496.31
4	499.38	498.49	497.85	497.12	496.50	497.50	497.14	499.68	498.84	498.57	---	496.27
5	499.36	498.47	497.80	497.05	496.81	497.76	497.10	499.64	498.81	498.53	---	496.22
6	499.35	498.43	497.78	497.03	496.85	497.76	497.08	499.62	498.80	498.49	---	496.17
7	499.33	498.43	497.75	497.01	496.83	497.71	497.07	499.59	498.76	498.45	497.35	496.11
8	499.31	498.44	497.73	496.98	496.80	497.71	497.04	499.56	498.78	498.41	497.30	496.07
9	499.32	498.42	497.69	496.93	496.77	497.65	497.01	499.54	498.84	498.37	497.25	496.02
10	499.31	498.39	497.66	496.93	496.75	497.64	496.96	499.51	498.97	498.33	497.21	495.97
11	499.28	498.38	497.67	---	496.87	497.61	496.91	499.49	499.04	498.29	497.15	495.92
12	499.25	498.37	497.66	---	497.07	497.59	496.93	499.48	499.02	498.24	497.09	495.88
13	499.22	498.32	497.68	---	497.10	497.57	496.91	499.45	498.99	498.19	497.04	495.83
14	499.18	498.29	497.65	---	497.12	497.65	496.88	499.43	498.96	---	496.99	495.80
15	499.14	498.27	497.62	---	497.13	497.69	496.84	499.39	498.94	---	496.93	495.85
16	499.10	498.26	497.58	---	497.11	497.67	496.80	499.36	498.95	---	496.88	495.81
17	499.07	498.26	497.57	---	497.08	497.65	496.77	499.32	498.92	---	496.83	495.76
18	499.03	498.30	497.53	---	497.05	497.63	496.74	499.29	498.88	---	496.77	495.72
19	499.01	498.28	497.51	---	497.01	497.61	496.71	499.26	498.84	---	496.82	495.66
20	498.97	498.24	497.48	---	497.00	497.59	496.68	499.22	498.81	---	496.87	495.61
21	498.94	498.20	497.44	---	496.98	497.54	496.65	499.18	498.76	---	496.84	495.55
22	498.91	498.17	497.43	---	496.95	497.50	496.62	499.14	498.73	---	496.81	495.51
23	498.88	498.14	497.37	---	496.94	497.46	496.60	499.10	498.69	---	496.78	495.46
24	498.84	498.12	497.37	---	496.94	497.44	497.40	499.06	498.65	---	496.73	495.41
25	498.80	498.08	497.34	---	497.28	497.42	498.05	499.03	498.62	---	496.68	495.36
26	498.75	498.07	497.32	---	497.49	497.40	498.23	499.00	498.59	---	496.64	495.32
27	498.71	498.00	497.30	496.65	497.47	497.37	498.21	498.96	498.61	---	496.59	495.27
28	498.68	498.00	497.30	496.62	497.45	497.35	498.18	498.94	498.63	---	496.56	495.21
29	498.64	497.97	497.27	496.59	497.46	497.34	498.15	498.90	498.63	---	496.54	495.16
30	498.61	497.94	497.24	496.55	---	497.30	498.14	498.86	498.65	---	496.49	495.10
31	498.60	---	497.21	496.55	---	497.27	---	498.85	---	---	496.44	---
MEAN	499.08	498.28	497.56	---	496.98	497.54	497.18	499.31	498.81	---	---	495.77
MAX	499.50	498.57	497.92	---	497.49	497.76	498.23	499.72	499.04	---	---	496.40
MIN	498.60	497.94	497.21	---	496.49	497.27	496.60	498.85	498.59	---	---	495.10

08062730 New Terrell City Lake near Terrell, TX—Continued



08062800 Cedar Creek near Kemp, TX

LOCATION.--Lat 32°30'18", long 96°06'57", Kaufman County, Hydrologic Unit 12030107, on left bank at downstream side of highway embankment at left end of right channel bridge on Farm Road 1836, 3.6 mi upstream from Williams Creek, 8.1 mi northeast of Kemp, and 51.5 mi upstream from mouth.

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--Jan. 1963 to Sept. 1987, Oct. 2002 to current.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 341.48 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since installation of gage in January 1963, at least 10% of contributing drainage area has been regulated. At times flow is affected by discharge from floodwater-retarding structures controlling runoff from 55.9 mi².

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1889, about 20.5 ft in 1945, from information by Texas Department of Transportation and local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	0.00	0.00	0.67	0.00	33	0.00	1,760	0.59	280	60	1.5
2	1.3	0.00	0.00	0.48	0.00	27	0.00	3,700	6.1	186	35	1.2
3	1.00	0.00	0.00	0.41	0.00	25	0.00	3,360	34	82	24	0.38
4	0.73	0.00	0.00	0.35	0.00	17	0.00	717	35	48	17	0.00
5	0.66	0.00	0.00	0.29	123	378	0.00	175	21	34	13	0.00
6	32	0.00	0.00	0.21	263	389	0.00	95	44	25	9.5	0.00
7	5.8	0.00	0.00	0.14	63	140	0.01	68	100	20	7.3	0.00
8	0.32	0.00	0.00	0.12	19	56	0.02	56	45	17	5.3	3.2
9	0.10	0.00	0.00	0.07	8.8	28	0.07	49	290	15	4.2	0.16
10	0.01	0.00	0.00	0.06	4.6	16	0.20	43	284	13	3.3	0.11
11	0.21	0.00	0.00	0.03	32	11	0.59	37	285	11	3.4	0.01
12	0.28	0.00	0.00	0.02	606	7.0	0.63	32	137	10	2.9	0.35
13	0.00	0.00	0.00	0.02	340	5.3	1.3	27	66	9.0	0.62	0.23
14	0.24	0.00	0.00	0.02	116	8.1	0.67	24	43	7.2	0.23	0.20
15	3.2	0.00	0.00	0.00	86	314	0.50	21	33	5.4	0.01	0.87
16	2.7	0.00	0.00	0.01	96	192	0.66	19	42	3.6	0.00	1.5
17	2.2	0.00	0.00	1.2	59	80	0.84	17	45	2.3	0.00	1.5
18	0.80	0.00	0.00	3.8	42	38	1.1	16	27	1.5	0.00	1.6
19	0.35	0.00	0.00	9.7	31	22	1.4	14	21	0.96	1.7	1.4
20	1.2	0.00	0.00	12	24	13	0.99	12	21	0.69	2.2	1.1
21	0.89	0.00	0.00	8.5	19	7.3	0.34	10	15	0.38	6.3	0.82
22	0.61	0.00	0.00	4.4	16	3.6	0.03	8.2	11	0.31	9.5	0.57
23	0.27	0.00	0.00	1.7	14	1.4	0.00	7.7	7.9	0.15	6.2	0.34
24	0.07	0.00	0.00	1.1	13	0.24	6.8	6.5	5.9	0.03	4.0	0.19
25	0.00	0.00	0.00	0.74	48	0.00	559	5.2	3.9	0.00	2.3	0.06
26	0.00	0.00	0.00	1.9	440	0.00	464	3.8	3.7	0.00	1.2	0.01
27	0.00	0.00	0.00	0.01	215	0.00	195	2.5	92	0.00	0.52	0.00
28	0.00	0.00	0.60	0.00	85	0.00	69	2.0	1,950	0.00	0.88	0.00
29	0.00	0.00	1.7	0.00	49	0.00	37	1.4	1,960	0.06	6.9	0.00
30	0.00	0.00	1.3	0.00	---	0.00	26	1.2	341	263	4.9	0.00
31	0.00	---	0.90	0.00	---	0.00	---	0.62	---	205	2.4	---
TOTAL	56.64	0.00	4.50	47.95	2,812.40	1,811.94	1,366.15	10,291.12	5,970.09	1,240.58	234.76	17.30
MEAN	1.83	0.00	0.15	1.55	97.0	58.4	45.5	332	199	40.0	7.57	0.58
MAX	32	0.00	1.7	12	606	389	559	3,700	1,960	280	60	3.2
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.59	0.00	0.00	0.00
AC-FT	112	0.00	8.9	95	5,580	3,590	2,710	20,410	11,840	2,460	466	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004h, BY WATER YEAR (WY)

	MEAN	94.1	84.5	184	94.5	184	131	196	185	150	26.8	3.64	10.5
MAX	664	989	1,010	428	634	459	1,435	845	831	366	57.2	58.2	58.2
(WY)	(1968)	(1975)	(1972)	(1980)	(1986)	(1970)	(1966)	(1969)	(1973)	(1971)	(1971)	(1976)	(1976)
MIN	0.00	0.00	0.00	0.01	0.28	3.74	0.09	0.33	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1976)	(1976)	(1981)	(1981)	(1984)	(1964)	(1964)	(1963)	(1963)	(1963)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

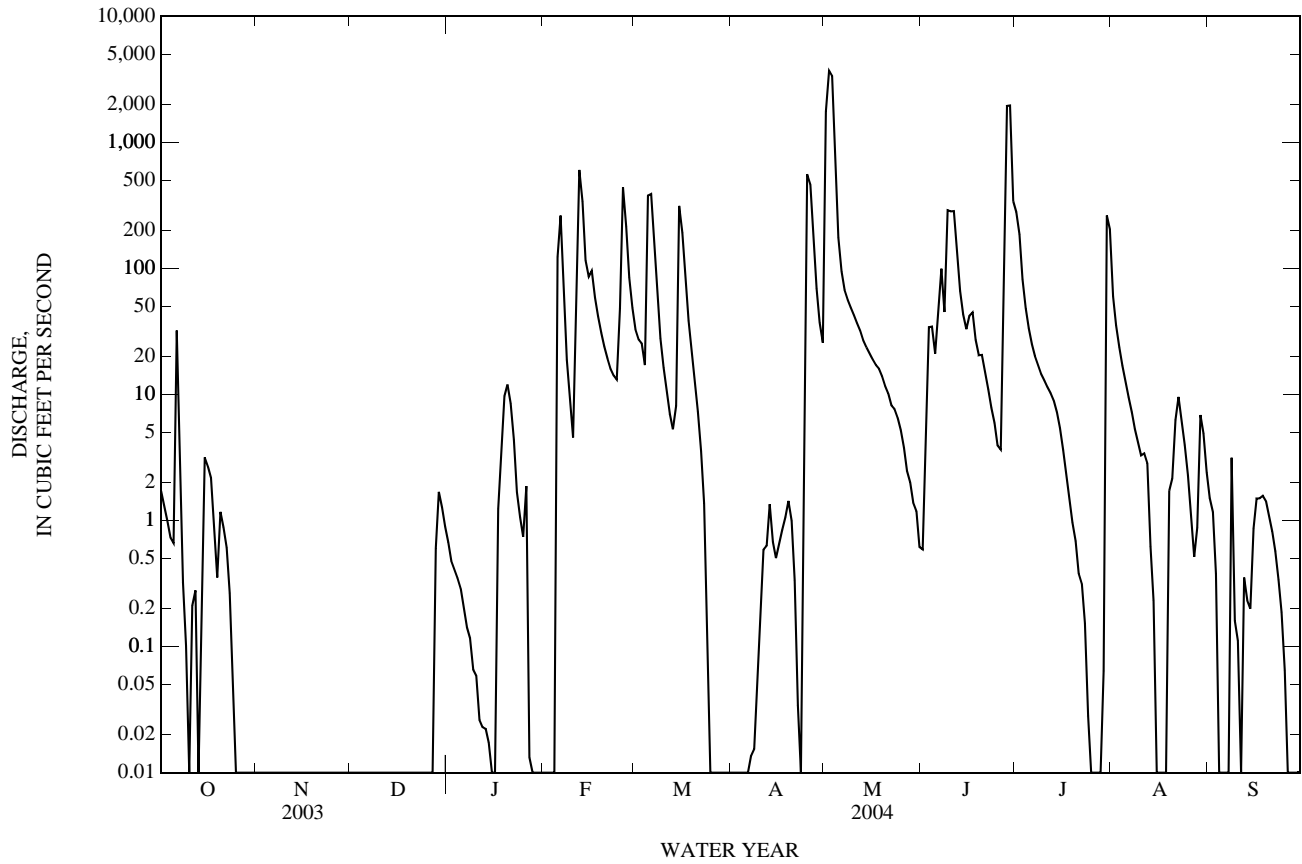
FOR 2004 WATER YEAR

WATER YEARS 1963 - 2004h

ANNUAL TOTAL	33,232.40	23,853.43	
ANNUAL MEAN	91.0	65.2	113
HIGHEST ANNUAL MEAN			262
LOWEST ANNUAL MEAN			18.4
HIGHEST DAILY MEAN	4,120	3,700	16,500
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW		4,130	29,000
MAXIMUM PEAK STAGE		13.74	16.80
ANNUAL RUNOFF (AC-FT)	65,920	47,310	82,160
10 PERCENT EXCEEDS	76	85	161
50 PERCENT EXCEEDS	1.3	1.2	2.7
90 PERCENT EXCEEDS	0.00	0.00	0.00

h See PERIOD OF RECORD paragraph.

08062800 Cedar Creek near Kemp, TX—Continued



08063010 Cedar Creek Reservoir near Trinidad, TX

LOCATION.--Lat 32°14'35", long 96°08'26", Henderson County, Hydrologic Unit 12030107, inside pumphouse on lower level, 1,000 ft north of spillway, 5.5 mi upstream from Joe B. Hogsett Dam on Cedar Creek, and 8.0 mi northwest of Trinidad.

DRAINAGE AREA.--1,007 mi².

PERIOD OF RECORD.--Jan. 1965 to current year. Water-quality records: Chemical data: Oct. 1969 to Sept. 1985. Biochemical data: Oct. 1969 to Sept. 1985.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 15, 1972, at unfinished pumphouse at same site and datum. May 16, 1972 to Sept. 8, 1975, at site 0.25 mi north and upstream from pumphouse at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 17,539 ft long. The spillway is located on the right bank 5.5 mi upstream from the dam and discharges into the Trinity River through a cut channel 2.0 mi long. Deliberate impoundment began July 2, 1965, and the dam was completed in Feb. 1966. The spillway is 474 ft long and has eight 40 by 24 ft radial gates and two automatically operated 40 by 8.5 ft hinged gates. Low-flow releases may be made downstream through a 5.0 foot diameter conduit through the dam. The dam is the property of Tarrant Regional Water District and was built for municipal and industrial supply and for recreational purposes. Water is diverted from the reservoir for municipal and industrial uses by lakeside developments and by the cities of Arlington, Fort Worth, Mansfield, Kemp, Trinidad, and Mabank. Conservation pool storage is 637,050 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	340.0
Top of radial gates	325.0
Top of automatic gates	322.5
Crest of spillway (automatic gates)	314.0
Crest of spillway (radial gates)	302.0
Lowest gated outlet (invert)	263.5

COOPERATION.--Records of diversions are maintained by the Tarrant Regional Water District. Capacity Table 1-C was provided by Freese and Nichols, consulting engineers for the Tarrant Regional Water District. A new capacity table, Table 2-C, provided by the Texas Water Development Board was put in effect Oct. 1, 1995.

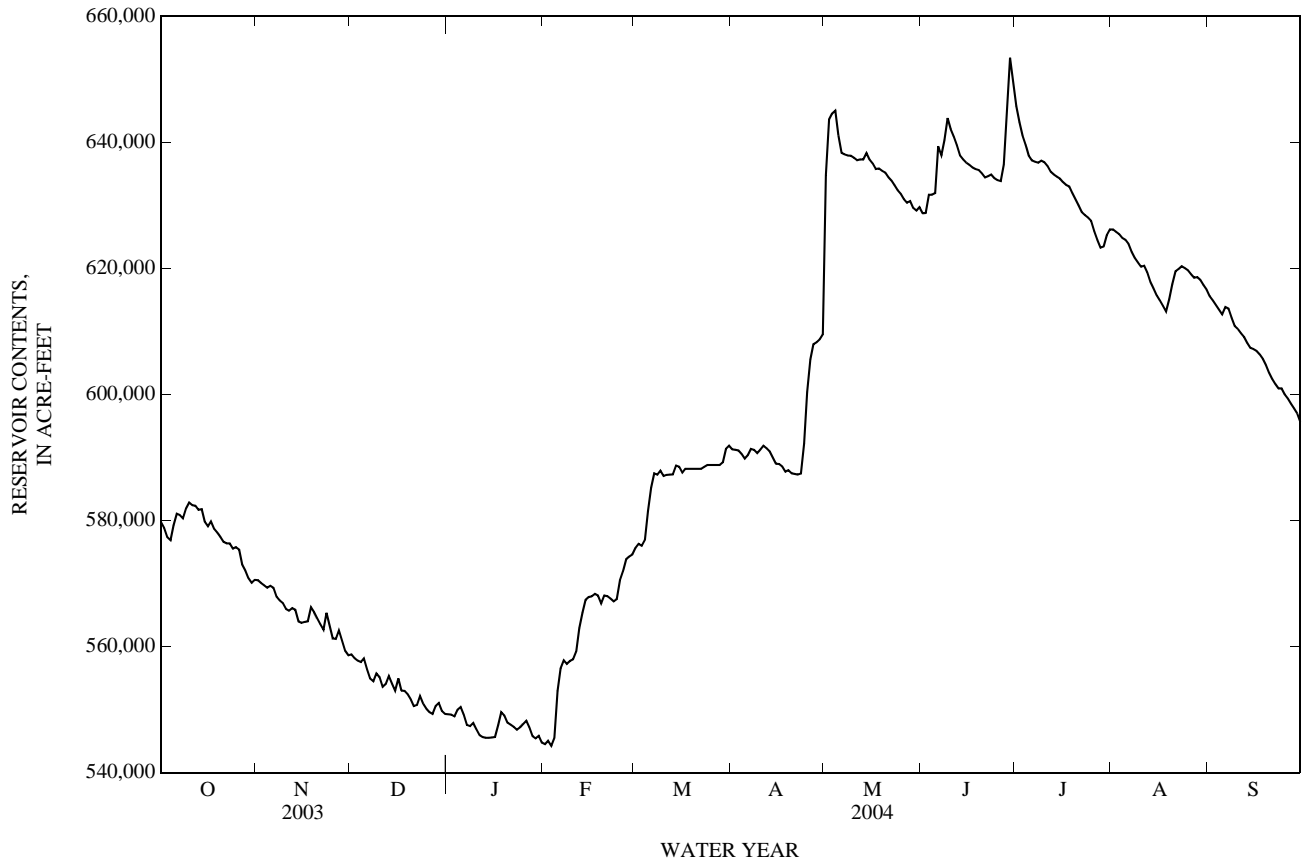
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 722,000 acre-ft, June 4, 1973, elevation, 323.24 ft; minimum contents since first appreciable storage in 1966, 332,900 acre-ft, Mar. 19, 1967, elevation, 309.42 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 654,600 acre-ft, June 28, 29, elevation, 322.53 ft; minimum contents, 542,700 acre-ft, Feb. 4, elevation, 318.89 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	579,700	570,500	558,800	549,300	544,500	575,600	591,300	634,800	628,800	645,800	626,200	615,600
2	578,800	570,100	558,200	549,200	545,000	576,300	591,200	643,600	628,800	643,200	625,800	614,900
3	577,400	569,700	557,800	548,900	544,200	576,000	591,100	644,600	631,700	641,100	625,400	614,200
4	576,900	569,300	557,500	550,000	545,500	576,900	590,600	645,000	631,700	639,600	624,800	613,400
5	579,300	569,700	558,100	550,400	553,000	581,500	589,800	641,200	631,900	637,900	624,500	612,700
6	581,100	569,300	556,400	549,200	556,500	585,300	590,400	638,300	639,400	637,100	623,900	613,900
7	580,900	567,900	554,900	547,600	557,800	587,500	591,400	638,100	638,000	636,900	622,600	613,600
8	580,300	567,300	554,500	547,400	557,300	587,300	591,200	637,900	640,400	636,800	621,700	612,200
9	581,900	566,900	555,700	547,900	557,700	587,900	590,700	637,900	643,900	637,100	620,900	610,900
10	582,800	566,000	555,200	546,900	558,000	587,100	591,300	637,600	642,100	636,900	620,300	610,400
11	582,400	565,700	553,600	546,000	559,300	587,200	591,900	637,200	640,900	636,300	620,400	609,700
12	582,400	566,100	554,100	545,700	562,900	587,300	591,500	637,300	639,600	635,400	619,400	609,100
13	581,700	565,800	555,300	545,500	565,400	587,300	591,000	637,300	637,900	634,900	617,800	608,200
14	581,800	564,000	554,100	545,500	567,400	588,700	590,000	638,300	637,300	634,600	616,800	607,400
15	579,800	563,800	553,000	545,600	567,900	588,500	589,000	637,300	636,800	634,300	615,700	607,200
16	579,100	563,900	555,000	545,700	568,000	587,600	589,000	636,700	636,400	633,700	614,900	606,900
17	579,900	564,000	553,000	547,600	568,300	588,200	588,600	635,800	636,000	633,300	614,100	606,400
18	578,700	566,300	553,000	549,600	568,100	588,200	587,800	635,900	635,800	633,000	613,200	605,700
19	578,100	565,500	552,500	549,100	566,900	588,200	588,000	635,500	635,600	631,900	615,100	604,700
20	577,400	564,500	551,600	547,900	568,100	588,200	587,500	635,200	635,100	631,000	617,500	603,500
21	576,600	563,600	550,600	547,600	568,000	588,200	587,400	634,500	634,400	630,000	619,500	602,400
22	576,400	562,700	550,700	547,300	567,600	588,200	587,300	634,000	634,600	628,900	619,900	601,700
23	576,400	565,400	552,200	546,800	567,200	588,500	587,400	633,200	634,900	628,500	620,400	601,000
24	575,500	563,300	550,900	547,200	567,500	588,800	592,200	632,400	634,300	628,100	620,100	601,000
25	575,800	561,300	550,100	547,700	570,500	588,800	600,400	631,800	634,000	627,500	619,700	600,000
26	575,400	561,200	549,600	548,300	571,900	588,800	605,600	631,000	633,900	625,900	619,100	599,400
27	573,000	562,600	549,300	547,200	573,900	588,800	608,000	630,400	636,500	624,500	618,500	598,500
28	572,100	561,000	550,600	545,800	574,300	588,800	608,300	630,700	645,200	623,300	618,600	597,800
29	570,900	559,300	551,100	545,400	574,600	589,200	608,700	629,600	653,400	623,500	618,200	597,000
30	570,100	558,600	549,800	545,800	---	591,400	609,600	629,200	649,300	625,300	617,400	595,700
31	570,600	---	549,300	544,800	---	591,900	---	629,700	---	626,200	616,600	---
MEAN	577,800	565,200	553,400	547,400	562,700	586,500	593,300	635,900	637,300	633,000	619,600	606,500
MAX	582,800	570,500	558,800	550,400	574,600	591,900	609,600	645,000	653,400	645,800	626,200	615,600
MIN	570,100	558,600	549,300	544,800	544,200	575,600	587,300	629,200	628,800	623,300	613,200	595,700
CAL YR	2003	MEAN 611,100	MAX 657,300	MIN 549,300								
WTR YR	2004	MEAN 593,300	MAX 653,400	MIN 544,200								

08063010 Cedar Creek Reservoir near Trinidad, TX—Continued



08063045 Richland Creek near Irene, TX

LOCATION.--Lat 31°58'37", long 96°48'52", Navarro County, Hydrologic Unit 12030108, at bridge on Farm Road 744, 0.3 mi northeast of intersection of Farm Road 744 and 1946, 2.4 mi upstream of Hackberry Creek, and 3.5 mi southeast of Irene.

DRAINAGE AREA.--69.0 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

BIOCHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO ₃ (00904)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JAN 21...	0832	22	120	757	12.0	99	8.3	364	6.9	29	150	55.8	2.68
APR 15...	1253	15	17	768	10.4	102	8.0	446	15.0	19	220	85.7	2.05
JUL 07...	1245	9.6	18	756	7.5	94	8.0	360	26.6	20	150	59.1	1.76
AUG 19...	1315	1.3	120	764	5.4	64	7.6	335	23.7	8	130	47.6	2.90

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
JAN 21...	3.20	.5	14.8	17	123	148	<1	11.8	.4	9.0	27.5	214	--
APR 15...	1.39	.3	9.11	8	205	248	<1	8.97	.3	7.34	17.1	256	230
JUL 07...	1.28	.4	10.4	13	135	162	1	9.91	.3	9.5	18.5	193	--
AUG 19...	5.05	.7	17.7	22	123	149	<1	14.4	.4	8.1	16.1	186	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
JAN 21...	111	E.03n	3.19	3.69	.504	.055	.018	.026	13.7	<2.0	2	.20	5r
APR 15...	21	<.04	--	.41	E.004n	--	<.006	.008	3.4	<2.0	Mn	<.20	E1n
JUL 07...	23	<.04	--	.27	<.008	--	<.006	.009	4.1	<2.0	--	--	--
AUG 19...	124d	<.04	--	.11	E.006n	--	E.003n	.017	12.3	4.7	E1n	E.15n	7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
JAN 21...	47	<.06	<.04	<.8	.257	2.0	--	<.08	1.2	<.02	.5	1.83	<3
APR 15...	61	<.06	<.04	<.8	.366	.9	7	<.08	11.6	<.02	E.4n	2.41	<3
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	56	<.06	<.04	<.8	.303	1.2	--	<.08	1.4	<.02	.4	2.23	<3

08063045 Richland Creek near Irene, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JAN 21...	<.2	E.4n	.98
APR 15...	<.2	<.6	.96
JUL 07...	--	--	--
AUG 19...	<.2	E.6n	.35

Remark codes used in this table:

< -- Less than

E -- Estimated value

M-- Presence verified, not quantified

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

n -- Below the LRL and above the LT-MDL

r -- Value verified by rerun, same method

08063050 Navarro Mills Lake near Dawson, TX

LOCATION.--Lat 31°57'27", long 96°41'21", Navarro County, Hydrologic Unit 12030108, in left abutment of spillway of Navarro Mills Dam on Richland Creek, 1.7 mi upstream from bridge on State Highway 31, 3.0 mi upstream from St. Louis Southwestern Railway Lines bridge, 4.2 mi upstream from Post Oak Creek, 4.6 mi north of Dawson, and 63.9 mi upstream from mouth.

DRAINAGE AREA.--320 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Aug. 1962 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Navarro Mills Reservoir".

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 8, 1962, nonrecording gage in low-water channel at same datum. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 7,570 ft long, including a 240-foot off-channel gated spillway with six 40.0 by 29.0 foot tainter gates. From Aug. 27, 1962, to Mar. 14, 1963, lake was operated as a detention basin only. Deliberate impoundment began Mar. 15, 1963, and dam was completed in Sept. 1963. Low-flow outlet works consist of two 36 inch diameter gate-controlled conduits. Lake was built for flood control and water conservation. Flow is affected at times by discharge from the flood-detention pools of 51 floodwater-retarding structures with a combined detention capacity of 26,160 acre-ft. These structures control runoff from 86.9 mi² in the Richland Creek drainage basin. The dam is owned by the U.S. Army Corps of Engineers. An unknown amount of water is diverted for municipal and industrial uses. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam	457.0
Design flood	451.9
Top of gates (top of flood-control storage pool)	443.0
Crest of spillway (gate sill)	414.0
Lowest gated outlet (invert)	400.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 183,300 acre-ft, May 18, 1968, elevation, 440.36 ft; minimum since initial filling in May 1965, 32,490 acre-ft, Dec. 28, 1978, elevation, 418.89 ft.

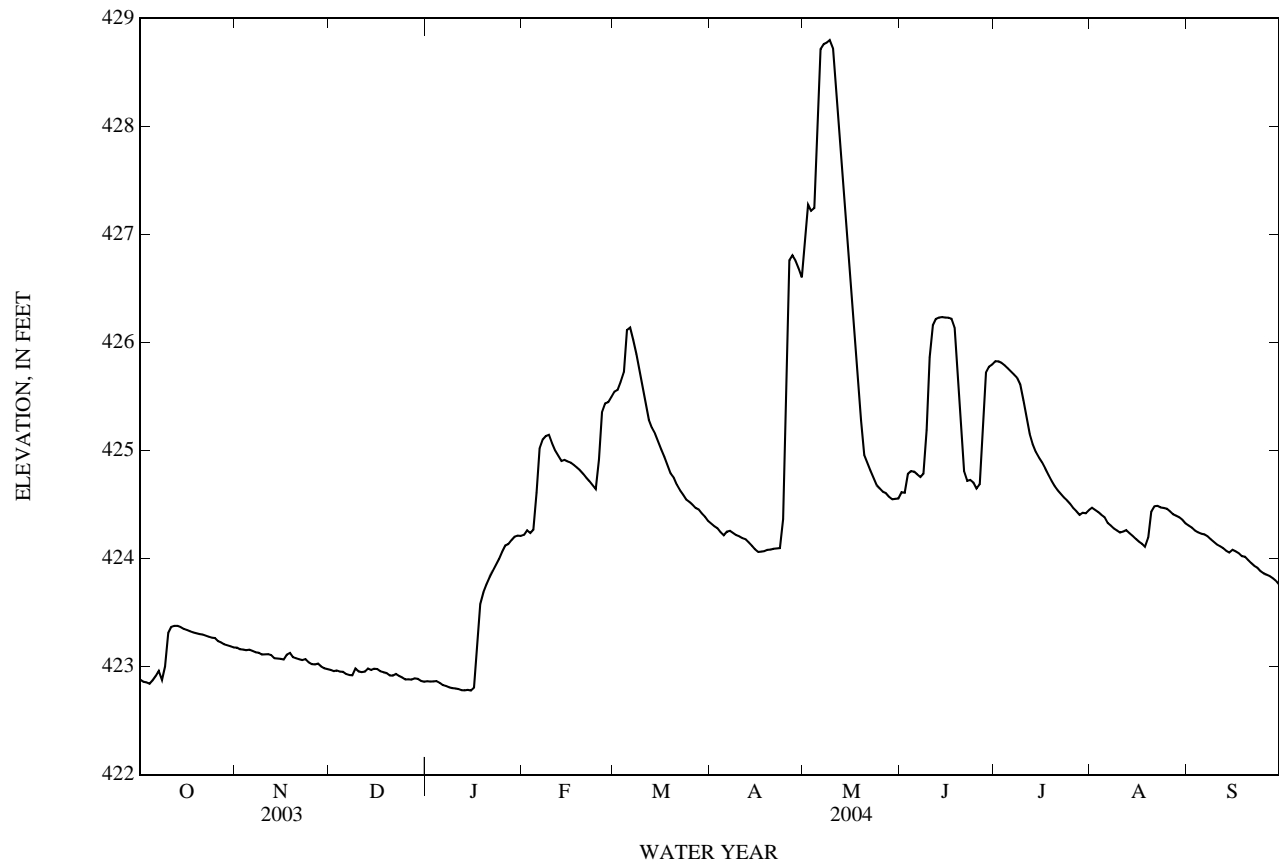
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 428.81 ft, May. 9; minimum elevation, 422.77 ft, Jan. 15.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422.88	423.18	422.97	422.87	424.22	425.54	424.32	426.96	424.61	425.83	424.47	424.31
2	422.86	423.16	422.96	422.86	424.26	425.56	424.30	427.28	424.61	425.82	424.45	424.29
3	422.85	423.16	422.96	422.86	424.24	425.64	424.28	427.22	424.78	425.81	424.43	424.26
4	422.84	423.15	422.95	422.87	424.27	425.73	424.25	427.24	424.81	425.79	424.41	424.24
5	422.87	423.16	422.95	422.85	424.61	426.11	424.22	427.85	424.80	425.76	424.38	424.23
6	422.91	423.14	422.93	422.83	425.02	426.14	424.25	428.72	424.78	425.73	424.33	424.22
7	422.96	423.13	422.92	422.82	425.10	426.02	424.26	428.76	424.75	425.70	424.31	424.21
8	422.88	423.13	422.92	422.81	425.13	425.89	424.24	428.77	424.79	425.67	424.28	424.18
9	423.00	423.11	422.98	422.80	425.15	425.75	424.22	428.80	425.19	425.61	424.26	424.15
10	423.31	423.11	422.95	422.80	425.07	425.59	424.21	428.72	425.86	425.46	424.24	424.13
11	423.37	423.12	422.95	422.79	425.00	425.43	424.19	428.38	426.16	425.31	424.25	424.11
12	423.38	423.11	422.95	422.78	424.95	425.29	424.18	428.01	426.22	425.16	424.26	424.10
13	423.38	423.08	422.98	422.78	424.90	425.21	424.15	427.66	426.23	425.06	424.23	424.07
14	423.37	423.07	422.97	422.79	424.91	425.16	424.12	427.29	426.24	424.99	424.21	424.06
15	423.35	423.07	422.98	422.78	424.90	425.09	424.09	426.89	426.23	424.93	424.18	424.08
16	423.34	423.07	422.98	422.80	424.89	425.01	424.06	426.49	426.23	424.89	424.16	424.07
17	423.33	423.11	422.96	423.16	424.87	424.94	424.06	426.10	426.22	424.84	424.14	424.05
18	423.32	423.13	422.95	423.58	424.84	424.86	424.07	425.69	426.14	424.77	424.11	424.02
19	423.31	423.09	422.94	423.69	424.81	424.79	424.08	425.28	425.71	424.72	424.19	424.02
20	423.30	423.08	422.92	423.76	424.78	424.75	424.08	424.96	425.24	424.67	424.43	423.99
21	423.30	423.07	422.92	423.83	424.75	424.68	424.09	424.89	424.81	424.63	424.48	423.96
22	423.29	423.06	422.93	423.89	424.72	424.63	424.09	424.81	424.72	424.60	424.49	423.93
23	423.28	423.07	422.91	423.94	424.68	424.59	424.10	424.75	424.73	424.57	424.47	423.92
24	423.27	423.04	422.90	424.00	424.64	424.55	424.36	424.68	424.70	424.54	424.47	423.88
25	423.26	423.02	422.88	424.06	424.92	424.52	425.77	424.65	424.65	424.51	424.46	423.86
26	423.24	423.02	422.88	424.12	425.35	424.50	426.76	424.62	424.69	424.47	424.44	423.85
27	423.22	423.03	422.88	424.13	425.44	424.47	426.81	424.60	425.21	424.44	424.41	423.84
28	423.21	423.00	422.89	424.17	425.45	424.45	426.76	424.57	425.72	424.41	424.40	423.82
29	423.20	422.99	422.89	424.20	425.50	424.42	426.69	424.55	425.78	424.42	424.38	423.79
30	423.19	422.98	422.87	424.21	---	424.39	426.60	424.55	425.80	424.42	424.36	423.76
31	423.18	---	422.86	424.21	---	424.35	---	424.56	---	424.45	424.32	---
MEAN	423.18	423.09	422.93	423.36	424.87	425.10	424.66	426.40	425.35	425.03	424.34	424.05
MAX	423.38	423.18	422.98	424.21	425.50	426.14	426.81	428.80	426.24	425.83	424.49	424.31
MIN	422.84	422.98	422.86	422.78	424.22	424.35	424.06	424.55	424.61	424.41	424.11	423.76

WTR YR 2004 MEAN 424.36 MAX 428.80 MIN 422.78

08063050 Navarro Mills Lake near Dawson, TX—Continued



08063050 Navarro Mills Lake near Dawson, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1969 to Sept. 1982, Oct. 1999 to current year.

BIOCHEMICAL DATA: Oct. 1981 to Aug. 1982, Oct. 1999 to current year.

PESTICIDE DATA: Aug. 2000 to current year.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Reser- voir storage acre-ft (00054)	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)
JAN													
20...	1400	--	.50	.30	--	--	--	--	--	--	--	--	--
20...	1401	424	1.00	.30	762	10.6	96	8.2	318	--	11.0	17	130
JAN													
20-20	1401	--	--	--	--	--	--	--	--	--	--	--	--
20...	1410	--	10.0	--	762	10.6	96	8.2	319	--	11.0	--	--
20...	1415	--	20.0	--	762	10.6	96	8.2	318	--	11.0	--	--
20...	1428	--	25.0	--	762	10.8	98	8.2	319	--	11.0	16	130
APR													
14...	1057	--	1.00	.29	771	8.9	92	8.2	369	--	17.5	28	150
APR													
14-14	1057	--	--	--	--	--	--	--	--	--	--	--	--
14...	1110	--	10.0	--	771	8.8	91	8.2	369	--	17.5	--	--
14...	1123	--	20.0	--	771	8.6	88	8.2	369	--	17.0	--	--
14...	1140	--	26.0	--	771	8.6	88	8.2	369	--	17.0	27	150
AUG													
18-18	1443	--	--	--	--	--	--	--	--	--	--	--	--
18...	1452	--	.45	.30	--	--	--	--	--	--	--	--	--
18...	1453	--	1.00	.90	769	7.8	100	8.2	280	31.0	28.5	12	110
18...	1502	--	10.0	--	769	7.1	90	8.1	284	31.0	28.5	--	--
18...	1513	--	22.0	--	769	2.0	25	7.6	293	31.0	27.5	15	110

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
JAN													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	44.4	3.47	3.82	.7	17.1	22	108	130	1	11.4	.4	5.4	31.8
JAN													
20-20	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	44.4	3.47	3.84	.7	17.1	22	109	131	1	11.6	.4	5.4	31.7
APR													
14...	55.3	3.28	3.67	.6	15.7	18	124	150	<1	10.6	.4	5.2	28.3
APR													
14-14	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	56.1	3.33	3.73	.6	15.9	18	128	154	<1	10.6	.4	5.2	28.1
AUG													
18-18	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	38.1	2.87	4.48	.6	13.6	21	95	115	<1	9.30	.4	9.7	24.8
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	40.4	2.90	4.32	.6	13.7	20	98	119	<1	9.42	.4	9.8	24.8

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Pheophy- tin a, phyto- plank- ton, acid m, ug/L (32218)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Iron, water, fltrd, ug/L (01046)
JAN 20...	--	--	--	--	--	--	--	--	.020	--	--	<.0002	--
JAN 20...	182	<.04	--	<.06	<.008	--	<.006	.009	--	E18k	E16k	--	<6
JAN 20-20	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	183	<.04	--	<.06	<.008	--	<.006	.017	--	--	--	--	<6
APR 14...	207	<.04	2.45	2.48	.037	--	E.005n	.011	.011	<1k	E5k	.006	<6
APR 14-14	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	210	E.02n	2.46	2.50	.036	.018	.006	.013	--	--	--	--	<6
AUG 18-18	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	--	--	--	--	--	--	--	--	.024	--	--	.037	--
AUG 18...	160	<.04	--	E.03n	.013	--	<.006	.008	--	<1	<4k	--	<6
AUG 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	164	E.02n	.04	.07	.032	--	<.006	.012	--	--	--	--	<6

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08063050 Navarro Mills Lake near Dawson, TX—Continued

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

315730096412601 -- NAVARRO MILLS LK SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

08063050 Navarro Mills Lake near Dawson, TX—Continued

315730096412601 -- NAVARRO MILLS LK SITE AC
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)
JAN													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
20-20	<.022	<.011	<.01	<.004	<.025	<.011	<.11	<.005	<.02	<.034	<.02	<.010	<.002
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14-14	<.022	<.011	<.01	<.004	<.025	<.011	<.02	.018	<.02	<.034	<.02	<.010	<.002
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
18-18	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.020	<.02	<.034	<.02	<.010	<.002
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--

315730096412601 -- NAVARRO MILLS LK SITE AC
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Xylenes water unfltrd ug/L (81551)	Benzene water unfltrd ug/L (34030)	Ethyl- benzene water unfltrd ug/L (34371)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Toluene water unfltrd ug/L (34010)
JAN								
20...	--	--	--	--	--	--	--	--
20...	--	<.2	<.1	<.1	<.2	<.1	<.2	<.1
JAN								
20-20	<.009	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
APR								
14...	--	<.2	<.1	<.1	<.2	<.1	<.2	<.1
APR								
14-14	<.009	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
AUG								
18-18	<.009	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
18...	--	<.2	<.1	<.1	<.2	<.1	E.1	<.1
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--

TRINITY RIVER BASIN

08063050 Navarro Mills Lake near Dawson, TX—Continued

315706096420201 -- NAVARRO MILLS LK SITE AR
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
JAN									
20...	1439	1.00	764	10.7	98	8.3	319	--	11.5
20...	1442	10.0	764	10.2	92	8.2	319	24.8	11.0
20...	1445	22.0	764	10.4	94	8.2	318	--	11.0
APR									
14...	1200	1.00	771	8.8	91	8.2	370	--	17.5
14...	1203	10.0	771	8.4	86	8.1	370	--	17.0
14...	1206	21.0	771	8.9	90	8.2	370	--	16.5
AUG									
18...	1133	1.00	774	8.0	101	8.2	280	31.0	27.8
18...	1135	10.0	774	3.2	39	7.6	291	31.0	27.0
18...	1137	17.0	774	2.6	33	7.7	292	31.0	27.0

315710096431301 -- NAVARRO MILLS LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
JAN													
20...	1457	1.00	.24	765	10.5	96	8.2	318	--	11.5	19	120	44.4
20...	1503	10.0	--	765	10.0	90	8.1	318	--	11.0	--	--	--
20...	1509	22.0	--	765	10.0	90	8.1	319	--	11.0	20	130	44.4
APR													
14...	1235	1.00	.34	770	9.2	95	8.2	370	--	17.5	25	150	55.4
14...	1245	10.0	--	770	9.1	94	8.2	370	--	17.5	--	--	--
14...	1255	24.0	--	770	9.2	92	8.2	370	--	16.0	21	150	55.3
AUG													
18...	1152	1.00	.43	773	8.8	111	8.4	280	31.0	28.0	10	110	37.6
18...	1200	10.0	--	773	7.3	91	8.1	282	31.0	27.5	--	--	--
18...	1208	22.0	--	773	3.3	41	7.7	291	31.0	27.0	14	110	40.3

315710096431301 -- NAVARRO MILLS LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)
JAN													
20...	3.38	3.96	.6	16.5	22	106	127	1	11.1	.4	6.0	31.5	186
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	3.43	3.90	.7	16.8	22	105	126	1	11.6	.4	5.7	31.7	183
APR													
14...	3.28	3.73	.6	15.7	18	128	155	<1	10.6	.4	5.1	28.4	210
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.30	3.65	.6	15.8	18	132	160	<1	10.3	.4	5.2	28.7	211
AUG													
18...	2.88	4.43	.6	13.5	21	97	117	<1	9.38	.4	9.6	24.6	160
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	2.91	4.44	.6	13.7	20	99	E120	<1	9.44	.4	10.0	24.6	165

08063050 Navarro Mills Lake near Dawson, TX—Continued

315710096431301 -- NAVARRO MILLS LK SITE BC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, ftrd, mg/L as N (00608)	Nitrate water, ftrd, mg/L as N (00618)	Nitrite + nitrate water, ftrd, mg/L as N (00631)	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Iron, water, ftrd, ug/L (01046)	Mangan- ese, water, ftrd, ug/L (01056)
JAN										
20...	<.04	1.00	1.10	.103	E.005n	.012	E420kv	>200k	<6	E.4n
20...	--	--	--	--	--	--	--	--	--	--
20...	<.04	.49	.53	.046	<.006	.011	--	--	<6	1.2
APR										
14...	<.04	2.42	2.45	.035	E.004n	.014	E1k	E2k	<6	<.8
14...	--	--	--	--	--	--	--	--	--	--
14...	E.03n	2.29	2.32	.032	E.005n	.011	--	--	<6	<.8
AUG										
18...	<.04	--	<.06	<.008	<.006	.007	E3k	E4k	<6	E.5n
18...	<.04	--	<.06	<.008	E.003n	.009	--	--	<6	6.9
18...	<.04	--	<.06	<.008	E.003n	.012	--	--	<6	44.5

315642096444401 -- NAVARRO MILLS LK SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unftrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat ftr field, as mg/L CaCO3 (00904)	Hard- ness, water, ftrd, as mg/L CaCO3 (00900)	Calcium water, ftrd, mg/L (00915)
JAN													
20...	1530	1.00	.18	767	10.4	94	8.2	313	--	11.0	--	120	44.2
20...	1537	14.0	--	767	10.1	91	8.1	315	--	11.0	--	130	44.7
APR													
14...	1353	.30	.18	--	--	--	--	--	--	--	--	--	--
14...	1354	1.00	.18	770	10.2	106	8.3	371	--	17.5	16	150	54.9
14...	1403	10.0	--	770	10.0	101	8.1	370	--	16.5	--	--	--
14...	1410	16.0	--	770	9.5	95	8.0	372	--	16.0	21	150	55.3
AUG													
18...	1225	1.00	.27	770	7.5	94	8.3	284	31.0	28.0	13	110	38.9
18...	1232	13.0	--	770	7.1	88	8.3	285	31.0	27.0	8	110	38.3

315642096444401 -- NAVARRO MILLS LK SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Magnes- ium, water, ftrd, mg/L (00925)	Potas- sium, water, ftrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, ftrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat ftr inc tit field, as mg/L CaCO3 (39086)	Bicar- bonate, wat ftr incrm. titr., mg/L (00453)	Carbon- ate, wat ftr incrm. titr., mg/L (00452)	Chlor- ide, water, ftrd, mg/L (00940)	Fluor- ide, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate water, ftrd, mg/L (00945)	Residue water, ftrd, sum of consti- tuents mg/L (70301)
JAN													
20...	3.30	4.06	.6	15.9	21	--	--	--	9.92	.4	6.0	30.2	--
20...	3.36	4.01	.6	16.3	21	--	--	--	11.2	.4	5.9	30.8	--
APR													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.29	3.61	.6	15.8	18	135	162	1	10.5	.4	5.0	29.2	213
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.31	3.64	.6	15.9	18	132	159	<1	10.6	.4	5.2	29.1	212
AUG													
18...	2.92	4.47	.6	13.7	21	98	118	<1	9.35	.4	9.6	24.4	162
18...	2.88	4.31	.6	13.6	21	100	121	<1	9.51	.4	9.5	24.6	162

TRINITY RIVER BASIN

08063050 Navarro Mills Lake near Dawson, TX—Continued

315642096444401 -- NAVARRO MILLS LK SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
JAN											
20...	<.04	1.13	1.29	.157	.018	.006	.014	E1400k	E1700k	<6	<.8
20...	<.04	.99	1.11	.124	--	E.005n	.015	--	--	<6	<.8
APR											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<.04	2.21	2.23	.026	--	<.006	.007	E6k	E6k	<6	<.8
14...	--	--	--	--	--	--	--	--	--	--	--
14...	E.03n	2.23	2.26	.030	--	E.003n	.009	--	--	<6	.8
AUG											
18...	<.04	--	<.06	<.008	--	<.006	.008	<1	<1	<6	<.8
18...	<.04	--	<.06	<.008	--	<.006	.010	--	--	<6	<.8

315602096470001 -- NAVARRO MILLS LK SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JAN													
20...	1612	1.00	--	762	11.3	100	8.0	315	--	10.0	<.04	.53	.62
20...	1616	5.00	--	762	11.2	99	8.1	315	--	10.0	--	--	--
APR													
14...	1452	1.00	--	770	10.1	105	8.1	373	--	17.5	<.04	2.27	2.30
14...	1458	5.00	--	770	10.1	103	8.1	371	--	17.0	--	--	--
AUG													
18...	1304	1.00	.12	772	7.3	91	8.2	285	31.0	27.0	<.04	--	<.06
18...	1310	4.00	--	772	7.1	87	8.2	285	31.0	26.5	--	--	--

315602096470001 -- NAVARRO MILLS LK SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
JAN					
20...	.088	E.004n	.013	<6	1.0
20...	--	--	--	--	--
APR					
14...	.028	<.006	.011	<6	E.5n
14...	--	--	--	--	--
AUG					
18...	<.008	<.006	.010	<6	E.4n
18...	--	--	--	--	--

08063050 Navarro Mills Lake near Dawson, TX—Continued

315706096463201 -- NAVARRO MILLS LK SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Trans- parency Secchi disc, meters (00078)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JAN													
20...	1637	1.00	--	764	11.3	102	8.1	317	--	11.0	<.04	--	.10
20...	1644	5.00	--	764	11.3	102	8.1	318	--	11.0	--	--	--
APR													
14...	1521	1.00	--	768	10.9	112	8.2	372	--	17.0	<.04	2.08	2.10
14...	1525	4.00	--	768	10.9	112	8.2	372	--	17.0	--	--	--
AUG													
18...	1330	1.00	.12	769	7.4	94	7.4	288	31.0	28.5	<.04	--	<.06
18...	1334	3.00	--	769	7.3	93	8.4	287	31.0	28.5	--	--	--

315706096463201 -- NAVARRO MILLS LK SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
JAN					
20...	E.007n	<.006	.008	<6	<.8
20...	--	--	--	--	--
APR					
14...	.021	<.006	.008	<6	E.5n
14...	--	--	--	--	--
AUG					
18...	<.008	<.006	.012	<6	<.8
18...	--	--	--	--	--

Remark codes used in this table:

< -- Less than
 > -- Greater than
 E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
 n -- Below the LRL and above the LT-MDL
 v -- Analyte detected in laboratory blank

08063100 Richland Creek near Dawson, TX

LOCATION.--Lat 31°56'18", long 96°40'52", Navarro County, Hydrologic Unit 12030108, at downstream side of bridge on State Highway 31, 1.3 mi upstream from St. Louis Southwestern Railway Lines bridge, 1.7 mi downstream from Navarro Mills Dam, 2.5 mi upstream from Post Oak Creek, and 3.6 mi northeast of Dawson.

DRAINAGE AREA.--333 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 367.52 ft above NGVD of 1929. Nov. 21, 1960, to Sept. 30, 1982, water-stage recorder at same site and at 3.00 ft higher datum. Prior to Nov. 21, 1960, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since Mar. 15, 1963, at least 10% of contributing drainage area has been regulated. At times flow may be affected by discharge from floodwater-retarding structures controlling runoff from a 1.28 mi² area below Navarro Mills Lake and above this station. No known diversions.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1961-63) prior to completion of Navarro Mills Lake, 181 ft³/s (131,100 acre-ft/yr)

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1895, about 31 ft June 19, 1929, from information by local residents. Floods in 1946 and 1957 reached a stage of about 26 ft, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.-- WATER YEARS 1961-1963: Maximum discharge, 25,500 ft³/s, July 3, 1961, gage height, 25.50 ft, from rating curve extended above 14,000 ft³/s; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.29	0.33	0.33	0.34	0.32	561	33	1,270	33	45	e0.70	e0.10
2	0.26	0.34	0.32	0.39	0.30	518	33	878	29	45	e0.71	e0.04
3	0.23	0.36	0.31	0.33	0.28	483	32	675	52	45	e0.70	e0.00
4	0.23	0.37	0.30	0.28	e0.28	486	32	13	29	44	e0.64	e0.00
5	0.34	0.36	0.29	0.26	e0.56	672	32	3.5	28	43	e0.60	e0.00
6	0.46	0.34	0.29	0.31	0.20	840	35	2.8	27	43	e0.55	e0.00
7	0.41	0.36	0.31	0.33	0.13	832	33	2.3	27	43	e0.52	e0.00
8	0.48	0.39	0.28	0.28	0.11	823	32	2.1	29	42	e0.50	e0.00
9	2.5	0.39	0.26	0.29	265	816	32	2.0	47	229	e0.49	e0.00
10	0.45	0.37	0.21	0.29	565	809	33	594	97	409	e0.46	e0.00
11	0.19	0.37	0.20	0.31	560	801	33	1,130	29	405	e0.45	e0.00
12	0.17	0.36	0.26	0.31	556	585	32	1,120	29	328	e0.43	e0.01
13	0.17	0.34	0.27	0.31	396	368	32	1,110	30	157	e0.40	e0.02
14	0.17	0.33	0.27	0.31	258	366	32	1,100	28	122	e0.37	e0.03
15	0.22	0.36	0.29	0.31	256	366	32	1,080	27	81	e0.36	e0.04
16	0.25	0.36	0.26	0.36	255	364	16	1,060	26	81	e0.35	e0.05
17	0.24	0.38	0.27	0.47	256	362	0.96	1,050	26	81	e0.33	e0.07
18	0.24	0.40	0.29	0.41	258	359	0.85	1,030	468	80	e0.32	e0.10
19	0.26	0.36	0.28	0.33	260	298	0.86	1,010	1,160	79	e0.37	e0.09
20	0.28	0.37	0.31	0.32	260	175	0.89	555	1,140	49	e0.30	e0.09
21	0.27	0.39	0.32	0.32	259	174	0.92	184	830	24	e0.28	e0.11
22	0.27	0.38	0.35	0.31	258	174	0.91	183	92	24	e0.26	e0.12
23	0.26	0.37	0.32	0.31	258	175	0.90	182	89	18	e0.24	e0.13
24	0.27	0.37	0.30	0.35	260	129	50	136	89	1.9	e0.25	e0.14
25	0.27	0.39	0.34	0.38	269	93	130	97	65	2.1	e0.25	e0.15
26	0.28	0.37	0.35	0.32	375	92	446	59	45	2.2	e0.24	e0.17
27	0.31	0.35	0.36	0.31	569	92	812	30	140	1.6	e0.21	e0.18
28	0.32	0.33	0.34	0.33	564	92	805	30	50	e0.80	e0.20	e0.18
29	0.32	0.34	0.31	0.33	563	92	801	28	46	e0.77	e0.18	e0.19
30	0.32	0.35	0.36	0.33	---	93	794	28	45	e0.74	e0.15	e0.21
31	0.33	---	0.38	0.33	---	71	---	30	---	e0.72	e0.12	---
TOTAL	11.06	10.88	9.33	10.16	7,522.18	12,161	4,348.29	14,674.7	4,852	2,527.83	11.93	2.22
MEAN	0.36	0.36	0.30	0.33	259	392	145	473	162	81.5	0.38	0.07
MAX	2.5	0.40	0.38	0.47	569	840	812	1,270	1,160	409	0.71	0.21
MIN	0.17	0.33	0.20	0.26	0.11	71	0.85	2.0	26	0.72	0.12	0.00
AC-FT	22	22	19	20	14,920	24,120	8,620	29,110	9,620	5,010	24	4.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004z, BY WATER YEAR (WY)

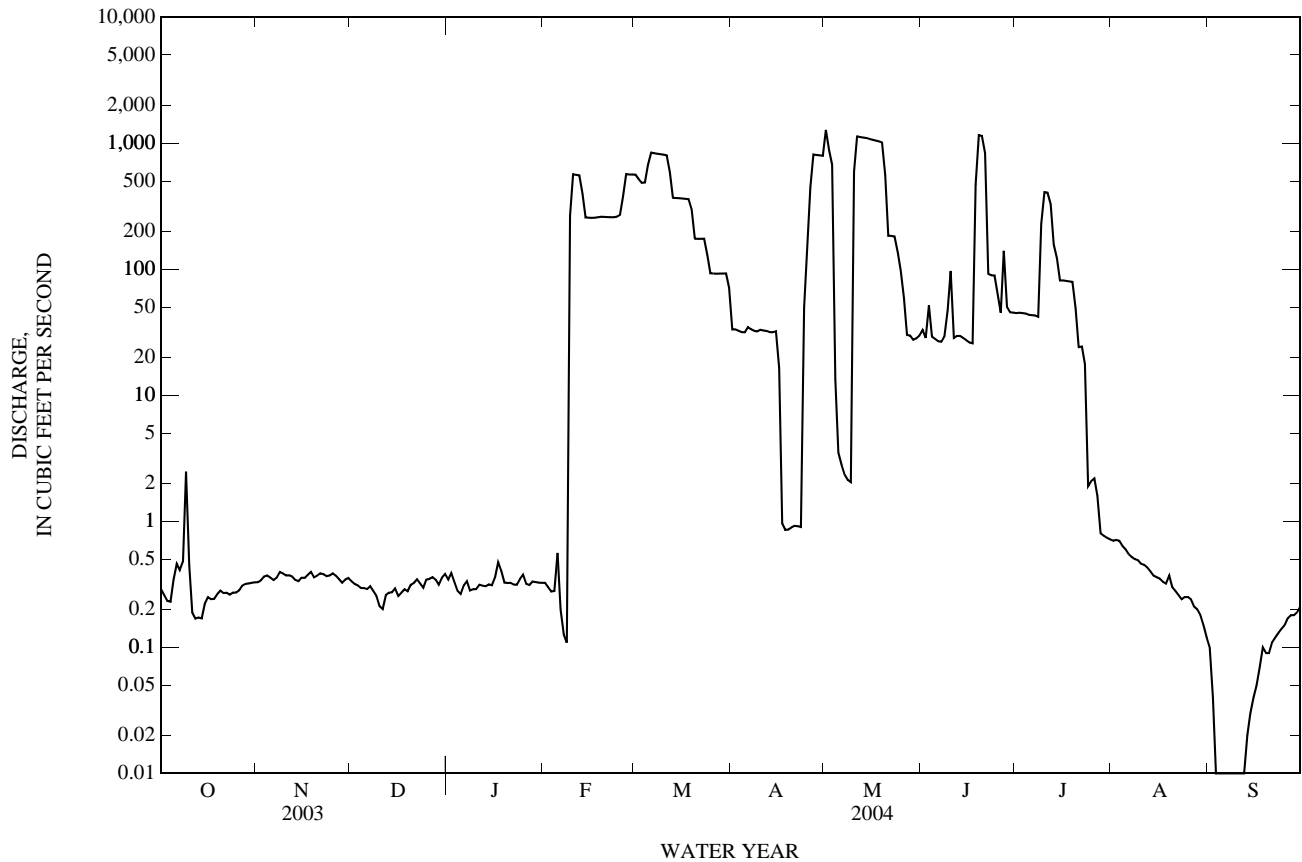
	MEAN	43.4	135	156	198	199	222	219	261	315	91.5	24.5	18.4
MAX	400	1,366	1,050	1,288	1,090	971	992	980	1,356	773	541	269	
(WY)	(1974)	(1968)	(1975)	(1998)	(1992)	(1970)	(1992)	(1980)	(1975)	(1968)	(1995)	(1974)	
MIN	0.00	0.00	0.00	0.06	0.07	0.22	0.02	0.02	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1971)	(1964)	(1964)	(1964)	(1970)	(2003)	(1997)	

08063100 Richland Creek near Dawson, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004z	
ANNUAL TOTAL	20,579.50		46,141.58		156	
ANNUAL MEAN	56.4		126		561	
HIGHEST ANNUAL MEAN					0.20	
LOWEST ANNUAL MEAN					1968	
HIGHEST DAILY MEAN	981	Mar 4	1,270	May 1	2,620	Aug 4, 1995
LOWEST DAILY MEAN	0.00	Jul 31	0.00	Sep 3	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 31	0.00	Sep 3	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			1,730	May 1	3,850	Nov 24, 1974
MAXIMUM PEAK STAGE			16.96	May 1	22.85	Nov 24, 1974
ANNUAL RUNOFF (AC-FT)	40,820		91,520		113,300	
10 PERCENT EXCEEDS	99		529		632	
50 PERCENT EXCEEDS	0.38		0.51		1.8	
90 PERCENT EXCEEDS	0.01		0.19		0.04	

z Period of regulated streamflow.

e Estimated



08063100 Richland Creek near Dawson, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

BIOCHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JAN 20...	1630	.33	6.7	757	8.0	70	7.8	790	9.1	63	250	87.8	7.91
APR 13...	1740	31	34	770	9.9	106	8.4	373	19.4	29	150	55.5	3.37
AUG 19...	1045	.31	3600d	766	6.4	76	7.6	1,020	23.8	97	270	94.6	8.26

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
JAN 20...	2.50	2	69.5	37	190	230	<1	62.5	.5	10.2	108	462	--
APR 13...	3.70	.6	16.6	19	125	151	<1	11.3	.4	5.54	29.7	211	229
AUG 19...	3.05	3	99.1	44	175	212	<1	112	.4	10.0	159	592	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Organic carbon, water, unfltrd, mg/L (00680)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic, water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
JAN 20...	<10	<.04	--	<.06	<.008	.018	.006	.013	5.1	E1n	E.15n	E2n	79
APR 13...	39	<.04	2.42	2.45	.032	.021	.007	.013	5.3	E1n	E.19n	3	57
AUG 19...	--	<.04	--	.15	<.008	.034	.011	.021	11.4	Mn	E.15n	2	110

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Beryllium, water, fltrd, ug/L (01010)	Cadmium, water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt, water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury, water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)
JAN 20...	<.06	<.04	<.8	.341	2.2	--	.20	54.5	<.02	.7	1.72	<3	<.2
APR 13...	<.06	<.04	<.8	.191	2.6	<6	<.08	3.1	<.02	.5	1.88	<3	<.2
AUG 19...	<.06	<.04	<.8	.353	1.8	--	<.08	35.5	<.02	.9	1.55	<3	<.2

08063100 Richland Creek near Dawson, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JAN 20...	1.9	2.27
APR 13...	E.4n	.96
AUG 19...	.9	2.21

Remark codes used in this table:

< -- Less than
E -- Estimated value
M-- Presence verified, not
quantified

Value qualifier codes used in this
table:

d -- Diluted sample: method hi
range exceeded
n -- Below the LRL and above
the LT-MDL

08063600 Lake Waxahachie near Waxahachie, TX

LOCATION.--Lat 32°20'30", long 96°48'18", Ellis County, Hydrologic Unit 12030109, mounted on pump intake structure, approximately 10 mi south of Waxahachie and 22.0 mi northwest of Ennis.

DRAINAGE AREA.--30.0 mi².

PERIOD OF RECORD.--Apr. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 3,200 ft long. The dam was completed Dec. 1, 1956. A 300 ft wide spillway has been cut through natural ground. The dam was built by the city of Waxahachie to impound water for municipal use. There was no known diversion from the lake during the current water year. Data regarding the dam is given in the following table:

	Elevation (feet)
Top of dam	543.0
Crest of spillway	531.0

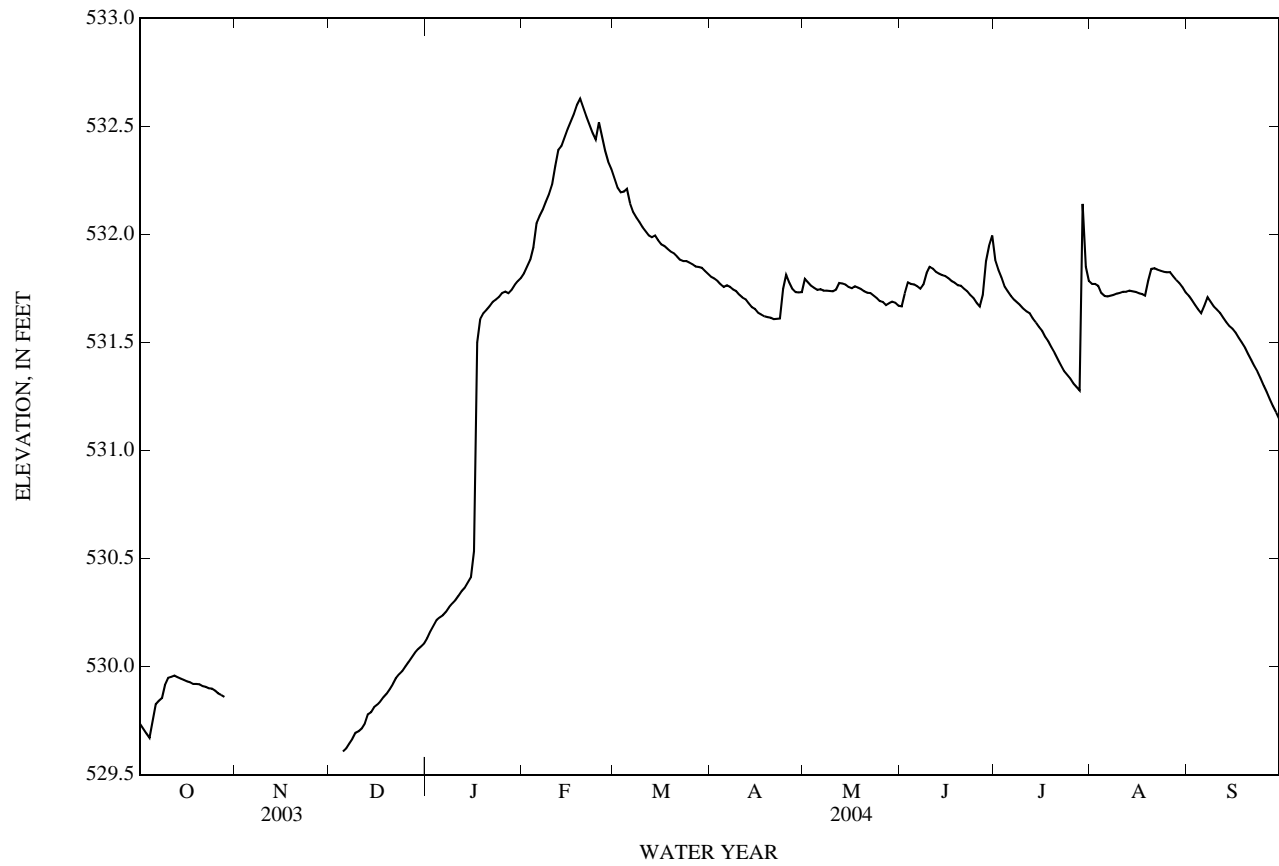
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 15,380 acre-ft, Apr. 3, 1999, elevation, 531.96 ft; minimum contents, 10,620 acre-ft, Mar. 21, 2000, elevation, 526.88 ft; maximum elevation, 532.66 ft, Feb. 2, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 532.66 ft, Feb. 19; minimum recorded elevation, 529.59 ft, Dec. 4.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	529.73	---	---	530.13	531.82	532.26	531.80	531.79	531.67	531.88	531.77	531.72
2	529.71	---	---	530.16	531.85	532.22	531.80	531.78	531.73	531.84	531.77	531.70
3	529.69	---	---	530.19	531.88	532.20	531.79	531.76	531.78	531.80	531.76	531.67
4	529.67	---	---	530.22	531.94	532.20	531.77	531.75	531.77	531.76	531.73	531.65
5	529.74	---	529.61	530.23	532.05	532.21	531.76	531.74	531.77	531.74	531.72	531.64
6	529.83	---	529.62	530.24	532.09	532.14	531.76	531.75	531.76	531.72	531.71	531.67
7	529.84	---	529.64	530.25	532.11	532.10	531.76	531.74	531.75	531.70	531.72	531.71
8	529.85	---	529.67	530.27	532.15	532.08	531.75	531.74	531.77	531.69	531.72	531.69
9	529.92	---	529.69	530.29	532.19	532.06	531.74	531.74	531.82	531.67	531.73	531.67
10	529.95	---	529.70	530.31	532.23	532.03	531.72	531.74	531.85	531.66	531.73	531.65
11	529.95	---	529.71	530.33	532.32	532.01	531.71	531.74	531.84	531.64	531.73	531.64
12	529.96	---	529.74	530.35	532.39	532.00	531.70	531.78	531.83	531.64	531.73	531.62
13	529.95	---	529.78	530.36	532.41	531.99	531.68	531.77	531.82	531.61	531.74	531.59
14	529.94	---	529.79	530.39	532.45	532.00	531.66	531.77	531.81	531.59	531.74	531.58
15	529.94	---	529.81	530.41	532.49	531.97	531.66	531.76	531.81	531.57	531.73	531.56
16	529.93	---	529.82	530.53	532.52	531.95	531.64	531.75	531.80	531.55	531.73	531.55
17	529.93	---	529.84	531.50	532.56	531.95	531.63	531.76	531.78	531.53	531.72	531.52
18	529.92	---	529.86	531.61	532.60	531.93	531.62	531.75	531.78	531.50	531.72	531.50
19	529.92	---	529.87	531.64	532.63	531.92	531.62	531.75	531.77	531.48	531.79	531.48
20	529.92	---	529.90	531.65	532.59	531.91	531.61	531.74	531.76	531.45	531.84	531.45
21	529.91	---	529.92	531.67	532.55	531.90	531.61	531.73	531.75	531.42	531.84	531.42
22	529.91	---	529.95	531.69	532.51	531.88	531.61	531.73	531.74	531.40	531.84	531.39
23	529.90	---	529.96	531.70	532.47	531.88	531.61	531.72	531.72	531.37	531.83	531.36
24	529.90	---	529.98	531.71	532.44	531.88	531.75	531.71	531.71	531.35	531.83	531.33
25	529.89	---	530.00	531.73	532.52	531.87	531.81	531.69	531.68	531.33	531.82	531.30
26	529.88	---	530.02	531.74	532.45	531.86	531.78	531.69	531.67	531.31	531.83	531.27
27	529.87	---	530.04	531.73	532.39	531.85	531.75	531.67	531.72	531.30	531.81	531.24
28	529.86	---	530.06	531.74	532.34	531.85	531.73	531.68	531.88	531.28	531.79	531.21
29	---	---	530.08	531.77	532.30	531.85	531.73	531.69	531.95	532.14	531.77	531.18
30	---	---	530.09	531.78	---	531.83	531.73	531.68	531.99	531.85	531.76	531.15
31	---	---	530.11	531.80	---	531.82	---	531.67	---	531.78	531.73	---
MEAN	---	---	---	530.97	532.32	531.99	531.71	531.73	531.78	531.60	531.76	531.50
MAX	---	---	---	531.80	532.63	532.26	531.81	531.79	531.99	532.14	531.84	531.72
MIN	---	---	---	530.13	531.82	531.82	531.61	531.67	531.67	531.28	531.71	531.15

08063600 Lake Waxahachie near Waxahachie, TX—Continued



08063700 Bardwell Lake near Ennis, TX

LOCATION.--Lat 32°15'00", long 96°38'49", Ellis County, Hydrologic Unit 12030109, in intake structure of Bardwell Dam on Waxahachie Creek, 5.0 mi south of Ennis, and 5.6 mi upstream from mouth.

DRAINAGE AREA.--178 mi².

PERIOD OF RECORD.--Nov. 1965 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Bardwell Reservoir". Water-quality records: Chemical data: Oct. 1998 to Sept. 2003. Biochemical data: Oct. 1998 to Sept. 2003. Pesticide data: July 1999 to Sept. 2003.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Apr. 25, 1966, nonrecording gage on intake structure at same datum. Satellite telemeter at station.

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 15,400 ft long, including a 350-ft uncontrolled off-channel concrete-gravity spillway with ogee weir section. Deliberate impoundment began Nov. 20, 1965, and dam was completed Mar. 27, 1966. Controlled low-flow outlet works consists of a 10.0-ft-diameter concrete conduit with two 5.0- by 10.0-ft sluice gates. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and water conservation. The city of Waxahachie diverts water from Lake Waxahachie and returns an unknown amount of effluent to Waxahachie Creek. Inflow is affected at times by discharge from flood-detention pools of 23 floodwater-retarding structures with a combined detention capacity of 15,370 acre-ft. These structures control runoff from 52.4 mi² in the Chambers Creek watershed. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	460.0
Design flood	455.9
Crest of spillway (top of flood-control pool)	439.0
Lowest gated outlet (invert)	391.0

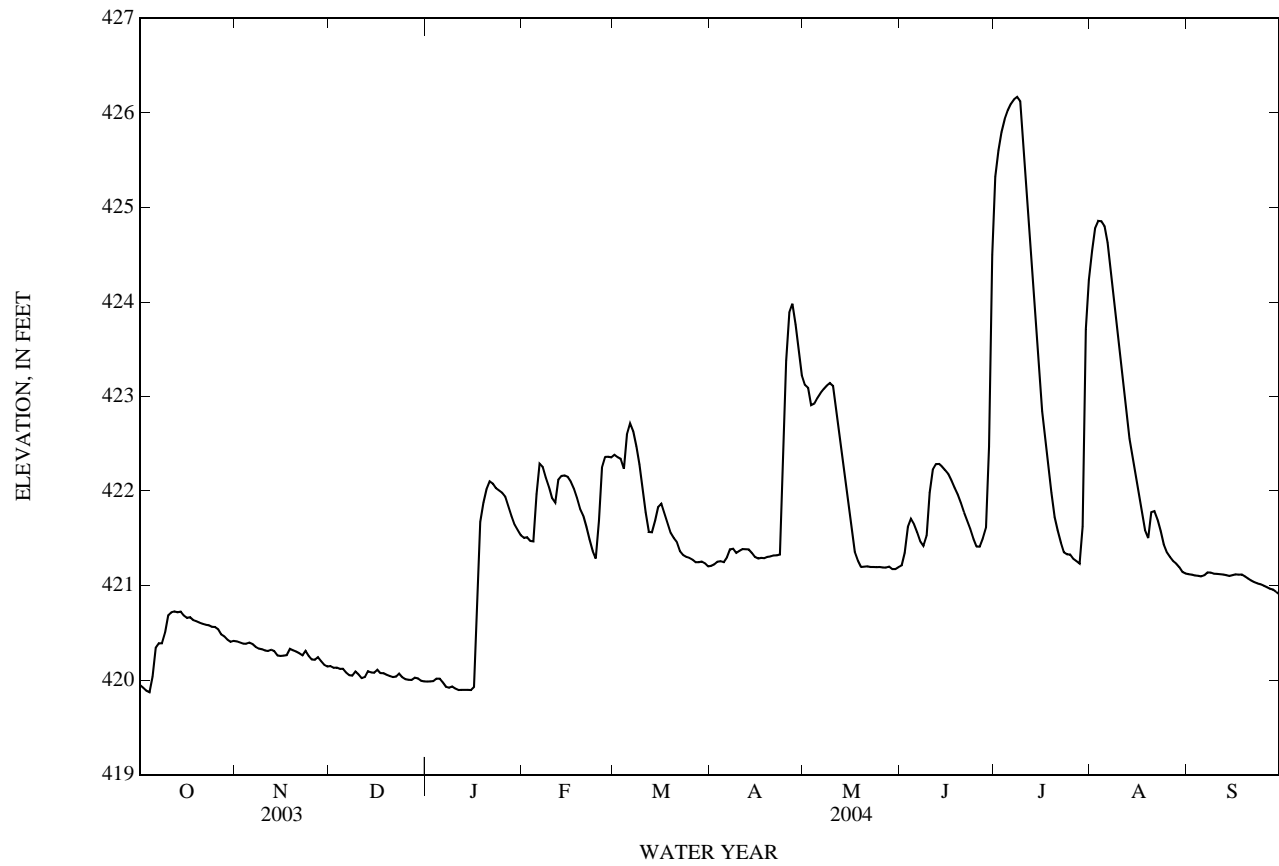
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 112,100 acre-ft, May 22, 1990, elevation, 434.54 ft; minimum contents since initial filling, 37,500 acre-ft, Dec. 8, 1999, elevation, 417.21 ft, Nov. 10, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 426.20 ft, July 9; minimum elevation, 419.86 ft, Oct. 3, 4, 5.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419.95	420.41	420.15	419.99	421.51	422.38	421.21	423.13	421.21	425.32	424.54	421.12
2	419.92	420.40	420.13	419.99	421.51	422.36	421.22	423.09	421.35	425.60	424.78	421.12
3	419.89	420.39	420.13	419.99	421.47	422.34	421.25	422.91	421.62	425.80	424.86	421.11
4	419.87	420.38	420.12	420.02	421.47	422.24	421.26	422.92	421.71	425.93	424.86	421.10
5	420.04	420.40	420.12	420.01	421.97	422.60	421.25	422.98	421.65	426.03	424.80	421.10
6	420.34	420.38	420.08	419.98	422.29	422.72	421.30	423.04	421.56	426.10	424.63	421.11
7	420.39	420.35	420.05	419.93	422.25	422.64	421.38	423.08	421.47	426.14	424.34	421.14
8	420.39	420.33	420.05	419.92	422.14	422.47	421.39	423.11	421.42	426.17	424.06	421.14
9	420.50	420.33	420.09	419.93	422.04	422.28	421.35	423.14	421.53	426.12	423.77	421.13
10	420.69	420.31	420.06	419.91	421.93	422.03	421.37	423.11	421.98	425.72	423.47	421.12
11	420.72	420.31	420.02	419.89	421.88	421.77	421.39	422.83	422.23	425.25	423.17	421.12
12	420.73	420.32	420.03	419.90	422.12	421.57	421.38	422.56	422.28	424.77	422.85	421.12
13	420.72	420.31	420.09	419.90	422.16	421.56	421.38	422.31	422.29	424.28	422.55	421.11
14	420.73	420.26	420.08	419.90	422.16	421.69	421.35	422.06	422.26	423.80	422.36	421.10
15	420.68	420.26	420.08	419.90	422.15	421.83	421.30	421.81	422.22	423.30	422.17	421.11
16	420.66	420.26	420.11	419.93	422.10	421.87	421.29	421.56	422.18	422.84	421.98	421.12
17	420.67	420.26	420.07	420.83	422.02	421.77	421.29	421.36	422.11	422.56	421.79	421.12
18	420.63	420.33	420.07	421.67	421.93	421.66	421.29	421.26	422.04	422.28	421.59	421.12
19	420.62	420.32	420.06	421.88	421.81	421.56	421.30	421.20	421.96	421.98	421.50	421.10
20	420.61	420.30	420.04	422.02	421.74	421.50	421.31	421.20	421.88	421.72	421.78	421.08
21	420.60	420.28	420.03	422.10	421.62	421.46	421.32	421.20	421.78	421.58	421.79	421.05
22	420.59	420.26	420.04	422.08	421.49	421.36	421.32	421.20	421.69	421.46	421.70	421.04
23	420.58	420.31	420.07	422.03	421.37	421.32	421.33	421.20	421.60	421.35	421.58	421.02
24	420.56	420.26	420.03	422.01	421.29	421.30	422.24	421.20	421.49	421.33	421.44	421.01
25	420.56	420.22	420.01	421.98	421.69	421.29	423.38	421.20	421.41	421.33	421.35	421.00
26	420.54	420.22	420.00	421.94	422.25	421.27	423.89	421.19	421.41	421.28	421.30	420.98
27	420.48	420.24	420.00	421.84	422.36	421.25	423.98	421.19	421.50	421.26	421.26	420.97
28	420.46	420.20	420.03	421.73	422.36	421.25	423.76	421.20	421.61	421.23	421.23	420.96
29	420.43	420.16	420.02	421.64	422.36	421.25	423.50	421.17	422.47	421.62	421.19	420.93
30	420.41	420.14	419.99	421.58	---	421.24	423.23	421.17	424.50	423.71	421.14	420.91
31	420.41	---	419.99	421.53	---	421.20	---	421.19	---	424.24	421.13	---
MEAN	420.46	420.30	420.06	420.84	421.91	421.78	421.81	421.99	421.88	423.62	422.61	421.07
MAX	420.73	420.41	420.15	422.10	422.36	422.72	423.98	423.14	424.50	426.17	424.86	421.14
MIN	419.87	420.14	419.99	419.89	421.29	421.20	421.21	421.17	421.21	421.23	421.13	420.91
CAL YR	2003	MEAN	421.04	MAX	424.45	MIN	419.87					
WTR YR	2004	MEAN	421.53	MAX	426.17	MIN	419.87					

08063700 Bardwell Lake near Ennis, TX—Continued



08063800 Waxahachie Creek near Bardwell, TX

LOCATION.--Lat 32°14'36", long 96°38'24", Ellis County, Hydrologic Unit 12030109, on left bank at downstream side of highway embankment near left end of bridge on county road, 0.8 mi downstream from Bardwell Dam, 3.6 mi southeast of Bardwell, 3.8 mi downstream from bridge on State Highway 34, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--178 mi².

PERIOD OF RECORD.--Oct. 1963 to current year. Water-quality records: Chemical data: Oct. 1980 to Sept. 1982, Oct. 1998 to Sept. 2003. Biochemical data: Oct. 1980 to Sept. 1982, Oct. 1998 to Sept. 2003.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 360.18 ft above NGVD of 1929 (U.S. Army Corps of Engineers benchmark). Prior to Oct. 2, 1998, at datum 10.0 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Nov. 1965, at least 10% of contributing drainage area has been regulated. No flow at times. No known diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1944, about 23 ft in 1944 and 1945, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.18	0.19	0.00	141	312	1.4	635	0.31	0.77	0.10	0.25
2	0.15	0.17	0.16	0.00	141	311	1.0	644	0.31	0.40	98	0.20
3	0.15	0.17	0.16	0.00	141	508	0.87	435	56	0.34	256	0.18
4	0.15	0.17	0.16	0.00	142	662	0.81	1.4	190	0.30	263	0.17
5	0.27	0.16	0.14	0.00	146	684	0.75	0.96	222	0.27	322	0.15
6	0.26	0.14	0.13	0.00	209	679	0.98	0.74	221	0.25	527	0.15
7	0.20	0.16	0.12	0.00	340	662	0.84	0.61	222	0.23	594	0.13
8	0.18	0.17	0.13	0.00	332	655	84	0.52	224	0.23	586	0.12
9	0.29	0.19	0.13	0.00	329	652	89	0.53	223	474	584	0.11
10	0.22	0.19	0.11	0.00	328	647	0.65	329	231	967	579	0.11
11	0.18	0.21	0.10	0.00	330	640	0.49	610	249	957	575	0.11
12	0.17	0.21	0.13	0.01	331	379	0.44	604	228	946	571	0.11
13	0.16	0.20	0.16	0.08	330	145	19	603	222	936	397	0.12
14	0.16	0.17	0.11	0.01	329	144	55	526	221	923	243	0.13
15	0.15	0.24	0.10	0.00	331	143	54	420	221	914	246	0.13
16	0.14	0.32	0.09	0.04	322	242	23	419	221	637	247	0.13
17	0.15	0.49	0.00	0.29	321	305	0.32	297	220	412	252	0.14
18	0.13	0.44	0.00	38	323	305	0.33	218	218	404	250	0.16
19	0.13	0.29	0.00	0.13	324	278	0.39	97	218	404	250	0.16
20	0.15	0.37	0.00	0.09	322	235	0.47	0.87	217	290	251	0.16
21	0.15	0.33	0.00	141	317	233	0.52	0.54	216	211	253	0.17
22	0.15	0.35	0.03	256	317	177	0.58	0.44	215	210	253	0.17
23	0.15	0.35	0.00	252	316	141	0.70	0.40	214	131	257	0.17
24	0.16	0.31	0.00	251	228	140	18	0.40	213	0.23	228	0.18
25	0.16	0.36	0.00	251	154	139	179	0.39	93	0.08	169	0.19
26	0.14	0.36	0.00	250	225	139	173	0.35	0.58	0.00	116	0.19
27	0.14	0.30	0.00	249	315	138	316	0.32	0.77	0.00	115	0.19
28	0.16	0.26	0.00	249	310	137	656	0.30	0.53	0.00	116	0.17
29	0.16	0.24	0.00	248	312	136	643	0.30	3.8	0.00	116	0.17
30	0.17	0.25	0.00	182	---	135	638	0.29	43	123	47	0.17
31	0.17	---	0.00	140	---	60	---	0.28	---	246	0.34	---
TOTAL	5.23	7.75	2.15	2,507.65	8,006	10,163	2,958.54	5,846.64	4,824.30	9,188.10	8,761.44	4.69
MEAN	0.17	0.26	0.07	80.9	276	328	98.6	189	161	296	283	0.16
MAX	0.29	0.49	0.19	256	340	684	656	644	249	967	594	0.25
MIN	0.13	0.14	0.00	0.00	141	60	0.32	0.28	0.31	0.00	0.10	0.11
AC-FT	10	15	4.3	4,970	15,880	20,160	5,870	11,600	9,570	18,220	17,380	9.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	18.0	71.0	84.6	123	118	166	125	156	181	30.7	11.0	5.55
MAX	299	723	603	921	605	710	590	827	773	370	283	178
(WY)	(1974)	(1992)	(1999)	(1998)	(1992)	(1997)	(1977)	(1973)	(1989)	(1981)	(2004)	(1976)
MIN	0.00	0.00	0.02	0.02	0.02	0.02	0.11	0.11	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1990)	(1967)	(1967)	(1967)	(1996)	(1996)	(1996)	(1966)	(1964)	(1966)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

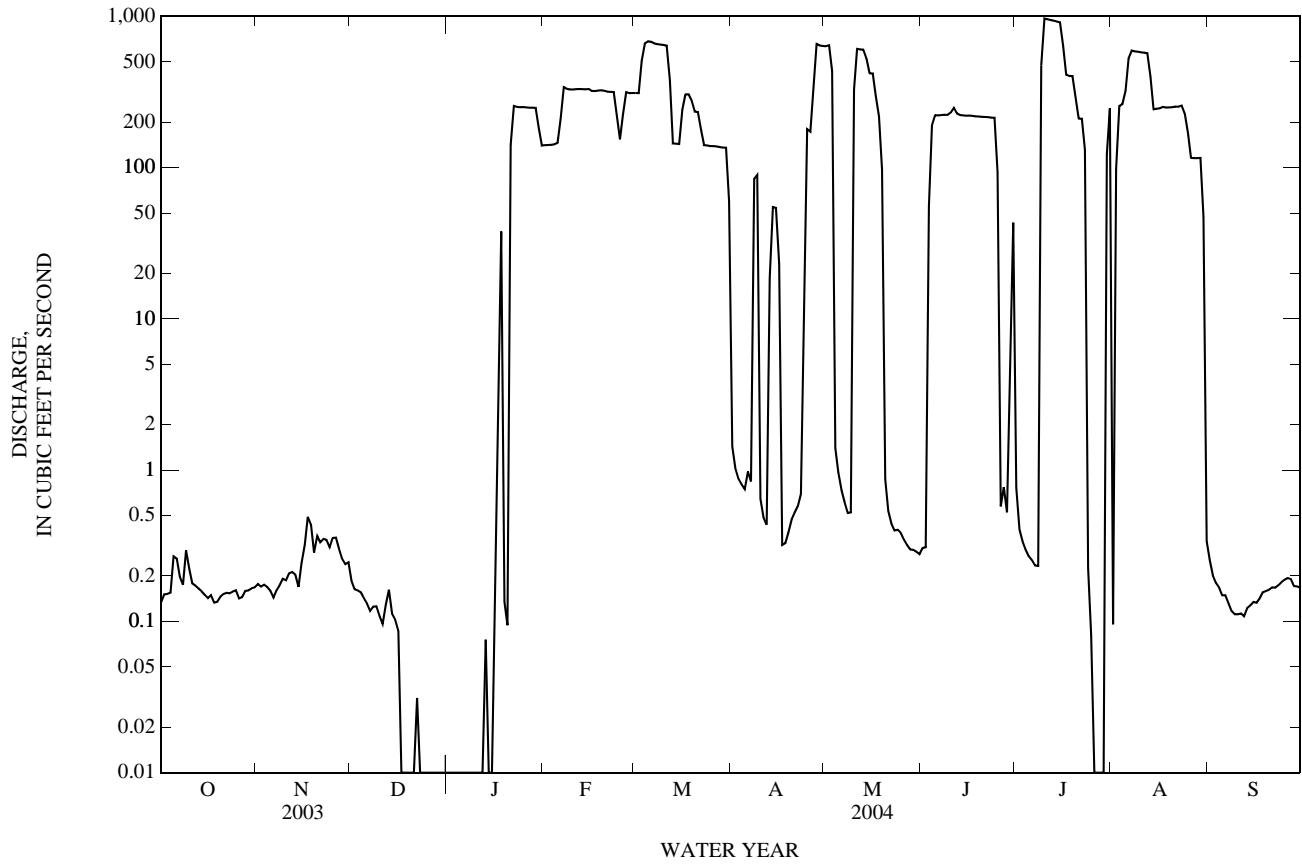
FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004

ANNUAL TOTAL	19,236.00	52,275.49	90.5
ANNUAL MEAN	52.7	143	318
HIGHEST ANNUAL MEAN			0.06
LOWEST ANNUAL MEAN			1992
HIGHEST DAILY MEAN	720	Jun 19	1,880
LOWEST DAILY MEAN	0.00	May 24	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 24	0.00
MAXIMUM PEAK FLOW			1,960
MAXIMUM PEAK STAGE			aa28.13
ANNUAL RUNOFF (AC-FT)	38,150	103,700	65,560
10 PERCENT EXCEEDS	120	414	295
50 PERCENT EXCEEDS	0.15	0.67	1.0
90 PERCENT EXCEEDS	0.09	0.09	0.00

aa Adjusted to present datum.

08063800 Waxahachie Creek near Bardwell, TX—Continued



TRINITY RIVER BASIN

332

08064100 Chambers Creek near Rice, TX

LOCATION.--Lat 32°11'54", long 96°31'12", Navarro County, Hydrologic Unit 12030109, on downstream side of highway embankment 20 ft to left of left end of bridge on Farm Road 1126, 3.6 mi downstream from Oak Branch, 3.9 mi upstream from Cummins Creek, 4.2 mi upstream from bridge on Interstate Highway 45, 5.0 miles downstream from Waxahachie Creek, and 3.4 mi southwest of Rice.

DRAINAGE AREA.--807 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 340.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1984, at least 10% of contributing drainage area has been regulated. At times flow is affected by discharge from floodwater-retarding structures in the drainage basin above this station. No flow at times. No known diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood information for the next downstream station, Chambers Creek near Corsicana, station (08064500) indicates that the maximum stage since at least 1870 occurred in Aug. 1887, and that other significant floods occurred in Dec. 1913, May 1944, and May 1958. Stages for these floods are unknown, but over the years a levee system has been developed along the main channel to limit cropland flooding.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.58	0.18	0.59	1.5	122	789	74	1,470	23	2,300	2,510	31
2	0.49	0.12	0.53	1.7	122	698	66	3,240	41	817	948	28
3	0.44	0.16	0.59	1.7	121	771	62	2,080	153	509	980	26
4	0.41	0.19	0.61	1.7	122	1,030	57	698	430	329	772	25
5	0.49	0.22	0.73	1.7	1,330	3,170	52	465	288	236	643	24
6	25	0.25	0.76	1.9	1,270	3,130	55	318	174	178	702	28
7	203	0.30	0.73	1.7	696	1,340	72	239	133	139	726	329
8	107	0.41	0.60	1.6	526	1,030	104	193	135	96	673	239
9	62	0.42	0.70	2.0	460	886	184	163	768	244	643	92
10	529	0.44	1.1	1.8	424	813	61	314	3,530	831	623	49
11	368	0.91	1.1	1.5	411	766	51	764	4,190	820	598	34
12	116	1.4	1.3	1.5	1,000	617	51	893	2,490	807	588	28
13	49	1.6	2.3	1.5	893	296	50	843	789	797	509	24
14	25	2.2	4.3	1.7	603	299	104	757	516	794	337	22
15	16	1.9	5.7	1.7	608	406	110	636	329	805	323	21
16	11	1.9	6.8	2.1	559	427	110	609	358	687	313	21
17	5.6	1.9	4.2	1,600	496	513	51	494	429	416	308	19
18	3.1	1.8	3.2	4,510	458	491	41	276	264	415	304	18
19	1.9	2.5	2.9	1,770	433	452	36	217	185	419	330	17
20	1.2	10	3.2	575	417	334	35	76	165	344	1,400	15
21	0.90	4.1	2.7	386	403	322	34	57	156	194	1,630	15
22	0.76	1.8	2.4	391	389	284	33	44	135	196	815	14
23	0.67	0.89	2.3	320	381	221	32	39	126	182	549	13
24	0.52	0.71	2.0	288	330	e215	2,150	35	120	37	426	13
25	0.40	0.61	1.8	278	e195	e196	6,160	34	92	28	286	12
26	0.27	0.55	1.6	272	4,250	194	7,500	32	19	27	174	12
27	0.27	0.40	1.4	258	2,110	191	2,860	30	566	26	140	12
28	0.25	0.37	1.6	244	963	185	1,620	27	199	25	123	11
29	0.25	0.48	1.7	238	725	184	1,220	24	685	578	112	10
30	0.24	0.58	1.8	201	---	221	1,000	23	3,850	4,540	89	10
31	0.25	---	1.6	123	---	166	---	22	---	9,260	36	---
TOTAL	1,529.99	39.29	62.84	11,481.3	20,817	20,637	24,035	15,112	21,338	27,076	18,610	1,212
MEAN	49.4	1.31	2.03	370	718	666	801	487	711	873	600	40.4
MAX	529	10	6.8	4,510	4,250	3,170	7,500	3,240	4,190	9,260	2,510	329
MIN	0.24	0.12	0.53	1.5	121	166	32	22	19	25	36	10
AC-FT	3,030	78	125	22,770	41,290	40,930	47,670	29,970	42,320	53,710	36,910	2,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	278	322	838	539	788	802	544	657	618	85.2	57.6	24.7
MAX	1,499	2,002	3,579	2,393	2,450	2,497	2,218	2,932	2,560	873	600	149
(WY)	(1986)	(1999)	(1992)	(1998)	(1997)	(2001)	(1995)	(1989)	(1986)	(2004)	(2004)	(1991)
MIN	0.00	0.00	1.45	4.66	5.16	6.35	12.2	1.34	0.05	0.08	0.00	0.00
(WY)	(1989)	(2000)	(1989)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1988)	(1988)	(1985)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

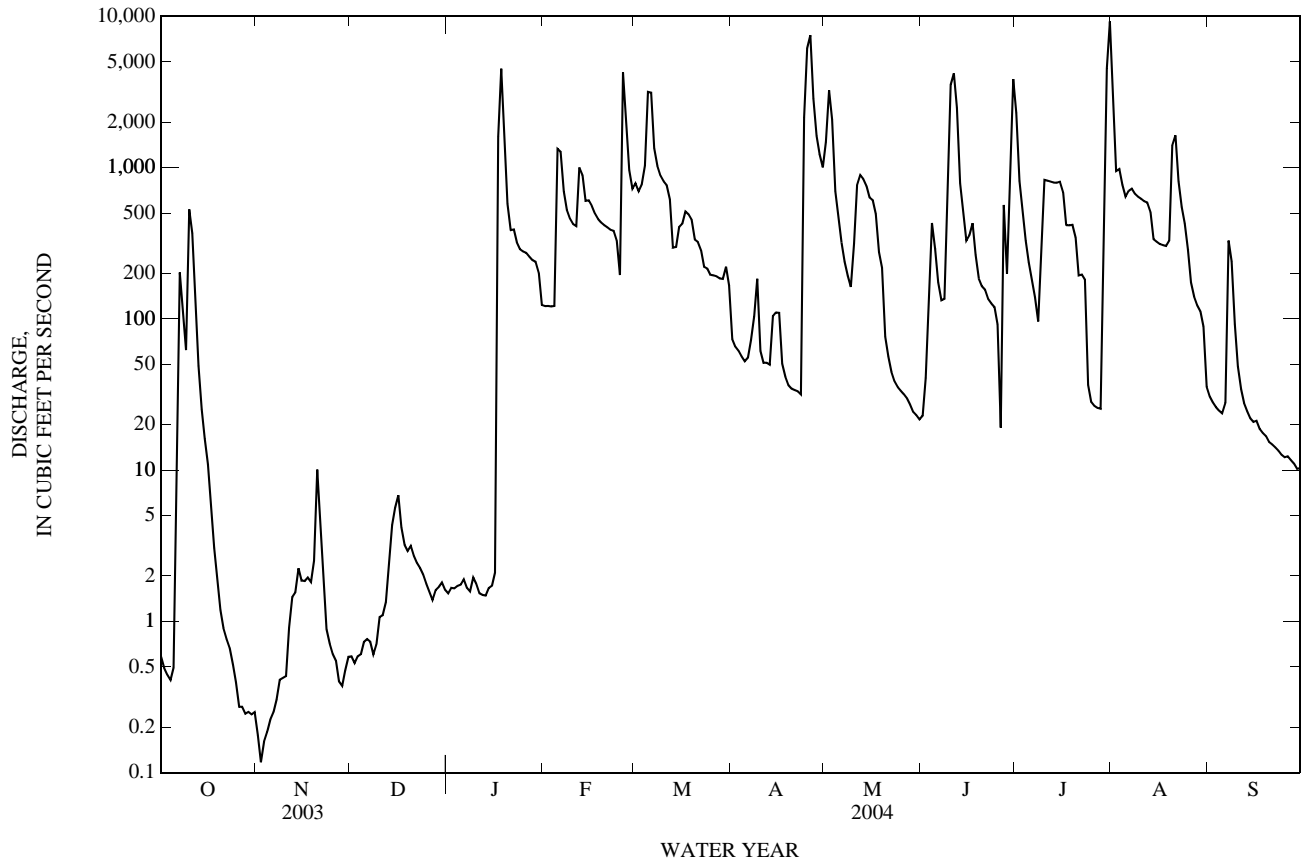
WATER YEARS 1984 - 2004

ANNUAL TOTAL	49,554.76	161,950.42	
ANNUAL MEAN	136	442	
HIGHEST ANNUAL MEAN			461
LOWEST ANNUAL MEAN			1,263
HIGHEST DAILY MEAN	3,730	Feb 22	22,700
LOWEST DAILY MEAN	0.12	Nov 2	0.00
ANNUAL SEVEN-DAY MINIMUM	0.19	Oct 30	0.00
MAXIMUM PEAK FLOW			c43,400
MAXIMUM PEAK STAGE			32.57
ANNUAL RUNOFF (AC-FT)	98,290	321,200	334,200
10 PERCENT EXCEEDS	446	910	1,150
50 PERCENT EXCEEDS	17	122	44
90 PERCENT EXCEEDS	0.59	0.71	0.11

c From rating curve extended above 15,000 ft³/s on basis of velocity-area study.

e Estimated

08064100 Chambers Creek near Rice, TX—Continued



08064100 Chambers Creek near Rice, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1983 to current year.

BIOCHEMICAL DATA: Oct. 1983 to current year.

PESTICIDE DATA: Feb. 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1983 to Dec. 1993 (local observer), Jan. 1994 to Sept. 2003.

WATER TEMPERATURE: Oct. 1983 to Dec. 1993 (local observer), Jan. 1994 to Sept. 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)
OCT 07...	1300	--	10	--	758	6.6	75	7.6	355	21.6	--	--	--
DEC 08...	0945	--	10	--	758	6.3	54	7.1	120	8.4	--	--	--
FEB 05...	1030	--	10	--	756	11.9	96	8.1	277	5.9	--	--	--
APR 06...	1000	56	10	--	--	8.1	--	7.9	580	19.0	240	74	89.8
06...	1030	--	10	--	--e	8.1	--	7.9	580	19.3	--	--	--
MAY 05...	1030	--	10	--	769	7.8	87	7.9	444	21.1	--	--	--
JUN 10...	1145	--	10	--	764	6.0	71	7.6	321	23.8	--	--	--
JUL 21...	1045	--	10	--	760	6.9	90	7.7	336	28.6	--	--	--
21...	1100	194	10	29	755	6.9	91	7.7	336	28.6	120	20	42.2
AUG 16...	1145	--	10	--	773	7.4	91	7.7	318	26.6	--	--	--
16...	1150	--	10	--	772	7.5	93	7.9	317	26.6	110	15	40.0
26...	1045	175	40	--	755	6.5	84	8.2	397	27.7	150	31	54.8
SEP 01...	0920	31	10	--	761	5.8	71	7.8	566	25.3	220	61	79.5
15...	0920	20	10	--	764	5.7	70	7.7	555	25.8	210	49	79.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)
OCT 07...	--	--	--	--	--	89	11.2	--	--	52.3	--	--	--
DEC 08...	--	--	--	--	--	226	122	--	--	191	--	--	--
FEB 05...	--	--	--	--	--	83	9.67	--	--	28.3	--	--	--
APR 06...	4.55	3.17	1	38.6	25	170	28.3	.4	2.61	76.2	346	355	39
06...	--	--	--	--	--	164	28.5	--	--	78.1	--	--	--
MAY 05...	--	--	--	--	--	134	16.3	--	--	48.4	--	--	--
JUN 10...	--	--	--	--	--	98	7.60	--	--	33.9	--	--	--
JUL 21...	--	--	--	--	--	90	15.1	--	--	37.4	--	--	--
21...	2.49	4.63	.9	22.9	29	96	14.7	.3	6.39	37.8	189	210	52
AUG 16...	--	--	--	--	--	81	43.2	--	--	54.9	--	--	--
16...	2.13	4.75	.7	17.9	25	95	12.4	.3	8.55	33.8	176	185	63
26...	2.79	4.82	.8	22.3	24	118	14.3	.4	10.1	47.4	229	243	146d
SEP 01...	4.29	5.16	1	37.0	27	157	29.9	.4	10.8	73.0	333	348	98d
15...	3.92	4.75	.9	31.1	23	166	28.3	.4	11.5	73.2	332	351	62

08064100 Chambers Creek near Rice, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)
OCT 07...	--	<.04	3.86	.87	.90	.076	.023	1.55	.156	.051	1.24oc	2.88	36.1
DEC 08...	--	<.04	--	--	<.06	--	<.008	.08	--	E.003n	.042	.49	.6
FEB 05...	--	E.03n	8.62	1.95	1.98	.102	.031	1.66	.451	.147	1.10oc	3.83	31.5
APR 06...	.26	<.04	--	--	.28	--	<.008	--	--	<.02	--	--	--
06...	--	<.04	--	--	.30	--	<.008	.20	--	<.006	.072	.80	2.0
MAY 05...	--	<.04	5.14	1.16	1.25	.279	.085	.55	.058	.019	.36oc	2.52	10.6
JUN 10...	--	<.04	4.67	1.06	1.09	.112	.034	1.13	.209	.068	.79	1.53	25.8
JUL 21...	--	<.04	--	--	<.06	--	<.008	.28	--	<.006	.060	.54	2.9
21...	.29	<.04	--	--	<.06	--	<.008	--	--	<.02	--	--	--
AUG 16...	--	<.04	20.3	4.59	4.63	.105	.032	.18	2.43	.791d	.92oc	5.32d	2.1
16...	.35	<.04	--	--	<.06	--	<.008	--	--	<.02	--	--	--
26...	.39	E.02n	.983	.22	.24	.053	.016	--	--	E.01n	--	--	--
SEP 01...	.39	<.04	--	--	<.06	--	<.008	--	--	<.02	--	--	--
15...	.41	<.04	--	--	.18	--	<.008	--	--	<.02	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Alum- inum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
OCT 07...	12.9	23.2	7.4	--	--	--	--	--	--	--	--	--	--
DEC 08...	<.1	.6	6.0	--	--	--	--	--	--	--	--	--	--
FEB 05...	6.6	24.9	9.1	--	--	--	--	--	--	--	--	--	--
APR 06...	--	--	--	6.7	E2.9	E1n	E.17n	1.6	68	<.06	<.04	<.8	.489
06...	<.1	2.0	4.3	--	--	--	--	--	--	--	--	--	--
MAY 05...	<.1	10.5	5.7	--	--	--	--	--	--	--	--	--	--
JUN 10...	5.7	20.1	9.4	--	--	--	--	--	--	--	--	--	--
JUL 21...	.3	2.6	3.8	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	6.0	<2.0	4	.20	4.3	51	<.06	E.02n	<.8	.219
AUG 16...	<.1	2.0	5.0	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	8.7	<2.0	<2	.20	5.3	38	<.06	<.04	<.8	.230
26...	--	--	--	9.6	<2.0e	2	.24	4.1	52	<.06	E.03n	<.8	.242
SEP 01...	--	--	--	10.6	<2.0	--	--	--	--	--	--	--	--
15...	--	--	--	11.0	<2.0	--	--	--	--	--	--	--	--

08064100 Chambers Creek near Rice, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

[illegible][illegible]

08064100 Chambers Creek near Rice, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Uranium natural water, fltrd, ug/L (22703)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sampler type, code (84164)
OCT 07...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	--	1,240	3053
DEC 08...	<.025	<.011	<.02	.024	<.02	<.034	<.02	<.010	<.002	<.009	--	106	3045
FEB 05...	<.025	<.011	<.02	.009	<.02	<.034	<.02	<.010	<.002	<.009	--	--b	3053
APR 06...	--	--	--	--	--	--	--	--	--	--	2.01	--	3045
06...	<.025	<.011	<.02	.020	<.02	<.034	<.02	<.010	<.002	<.009	--	88	3045
MAY 05...	<.025	<.011	<.02	.257	<.02	<.034	<.02	<.010	<.002	<.009	--	400	3053
JUN 10...	<.025	<.011	<.02	.030	<.02	<.034	<.02	<.010	<.002	<.009	--	844	3053
JUL 21...	<.025	<.011	<.02	.049	E.01n	<.034	<.02	<.010	<.002	<.009	--	57	3053
21...	--	--	--	--	--	--	--	--	--	--	.67	--	3053
AUG 16...	<.025	<.011	<.02	.040	<.02	<.034	<.02	<.010	<.002	<.009	--	76	3053
16...	--	--	--	--	--	--	--	--	--	--	.47	--	3051
26...	--	--	--	--	--	--	--	--	--	--	1.07	--	3070
SEP 01...	--	--	--	--	--	--	--	--	--	--	--	--	3045
15...	--	--	--	--	--	--	--	--	--	--	--	--	3045

Remark codes used in this table:

< -- Less than

E -- Estimated value

M-- Presence verified, not quantified

Value qualifier codes used in this table:

c -- See laboratory comment

d -- Diluted sample: method hi range exceeded

e -- See field comment

n -- Below the LRL and above the LT-MDL

o -- Result determined by alternate method

t -- Below the long-term MDL

Null value qualifier codes used in this table:

b -- Sample broken/spilled in shipment

e -- Required equipment not functional/avail

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08064510 Halbert Lake near Corsicana, TX

LOCATION.--Lat 32°04'36", long 96°24'20", Navarro County, Hydrologic Unit 12030109, on fishing pier approximately 1,000 ft upstream of dam on left bank, 4.0 mi southeast of Corsicana.

DRAINAGE AREA.--12.0 mi².

PERIOD OF RECORD.--Apr. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 2,780 ft long. The dam was completed and storage began in 1921. An uncontrolled concrete chute spillway 175 ft long is located on the left (west) embankment. The dam was built by the city of Corsicana to impound water for municipal use. There was no known diversion from the lake during the current water year. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	375.0
Crest of spillway	368.0

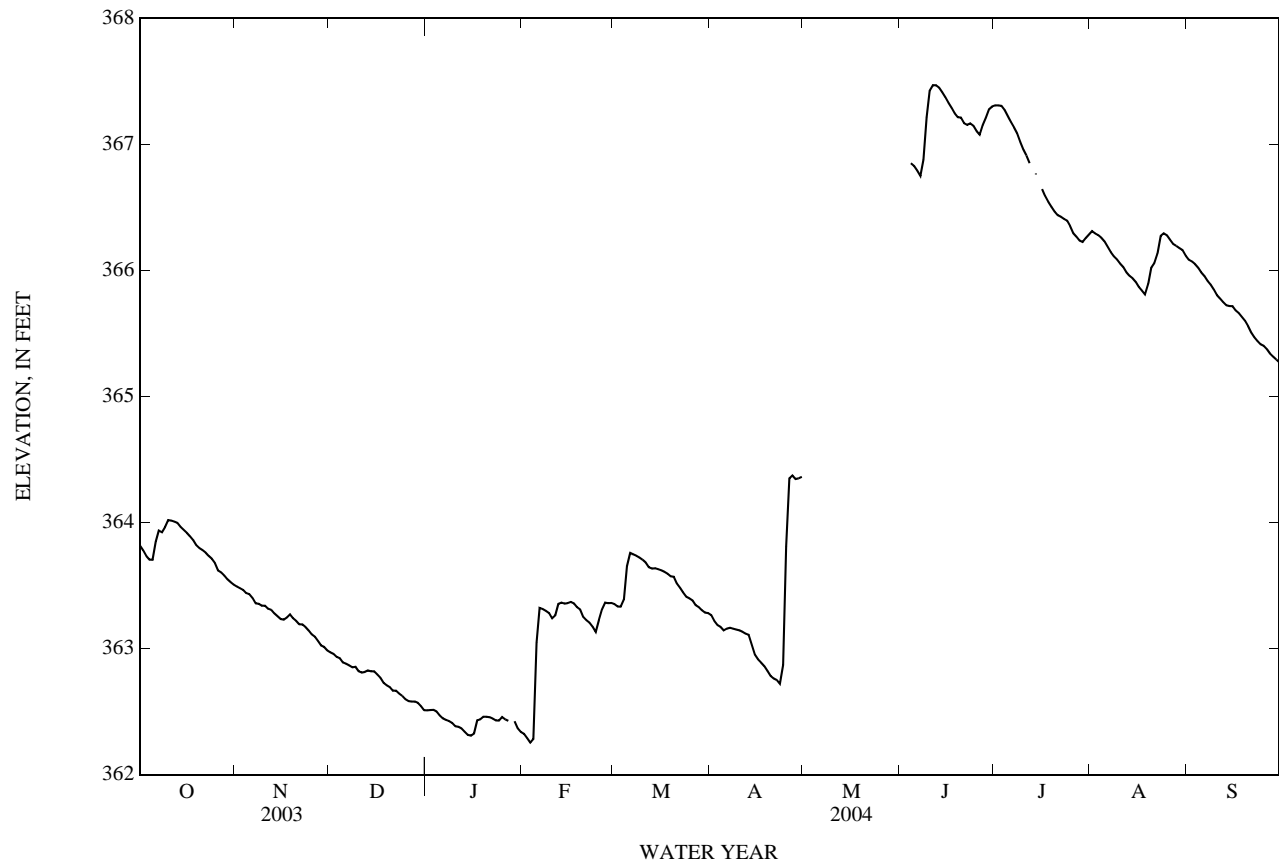
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,530 acre-ft, Apr. 8, 2002, elevation, 367.12 ft; maximum elevation, 367.12 ft, Apr. 8, 2002, Mar. 25, 27, 2003; minimum contents, 2,670 acre-ft, Feb. 17, 18, 2000, elevation, 361.17 ft; maximum elevation, 367.52 ft, June 13, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 367.52 ft, June 13; minimum elevation, 362.19 ft, Feb. 4.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363.82	363.49	362.97	362.51	362.32	363.35	363.27	---	---	367.31	366.31	366.09
2	363.78	363.48	362.96	362.51	362.29	363.33	363.22	---	---	367.31	366.29	366.07
3	363.73	363.47	362.93	362.51	362.25	363.33	363.19	---	---	367.31	366.28	366.05
4	363.71	363.44	362.92	362.50	362.28	363.39	363.17	---	366.85	367.27	366.26	366.02
5	363.70	363.43	362.89	362.47	363.05	363.65	363.15	---	366.83	367.23	366.23	365.99
6	363.85	363.40	362.88	362.45	363.32	363.76	363.16	---	366.79	367.18	366.19	365.96
7	363.94	363.36	362.87	362.43	363.31	363.75	363.16	---	366.75	367.14	366.15	365.92
8	363.92	363.36	362.85	362.42	363.30	363.74	363.16	---	366.88	367.09	366.11	365.89
9	363.96	363.34	362.86	362.41	363.28	363.72	363.15	---	367.22	367.02	366.09	365.85
10	364.02	363.34	362.82	362.38	363.24	363.71	363.14	---	367.43	366.96	366.06	365.81
11	364.02	363.32	362.81	362.38	363.26	363.68	363.13	---	367.47	366.91	366.03	365.78
12	364.01	363.31	362.81	362.37	363.35	363.65	363.12	---	367.47	366.85	365.99	365.75
13	364.00	363.28	362.83	362.34	363.36	363.63	363.11	---	367.45	---	365.96	365.72
14	363.96	363.26	362.82	362.32	363.36	363.64	363.03	---	367.41	366.77	365.94	365.72
15	363.94	363.23	362.82	362.31	363.36	363.63	362.95	---	367.37	---	365.91	365.72
16	363.92	363.23	362.79	362.33	363.37	363.62	362.91	---	367.33	366.65	365.87	365.68
17	363.89	363.25	362.77	362.43	363.36	363.61	362.89	---	367.29	366.59	365.84	365.66
18	363.86	363.27	362.73	362.44	363.33	363.59	362.86	---	367.25	366.54	365.81	365.63
19	363.82	363.24	362.71	362.46	363.31	363.57	362.82	---	367.22	366.50	365.89	365.60
20	363.80	363.22	362.69	362.46	363.25	363.57	362.78	---	367.21	366.47	366.02	365.56
21	363.78	363.19	362.67	362.46	363.22	363.52	362.76	---	367.17	366.44	366.06	365.51
22	363.76	363.19	362.67	362.44	363.21	363.48	362.75	---	367.16	366.43	366.13	365.47
23	363.73	363.17	362.64	362.43	363.17	363.45	362.72	---	367.17	366.41	366.27	365.44
24	363.71	363.14	362.62	362.43	363.13	363.41	362.87	---	367.15	366.40	366.29	365.41
25	363.68	363.11	362.60	362.46	363.23	363.40	363.81	---	367.11	366.35	366.28	365.40
26	363.62	363.09	362.58	362.44	363.31	363.38	364.35	---	367.08	366.30	366.24	365.38
27	363.60	363.06	362.58	362.43	363.36	363.35	364.37	---	367.15	366.27	366.21	365.34
28	363.58	363.02	362.58	---	363.36	363.33	364.35	---	367.21	366.24	366.19	365.32
29	363.55	363.01	362.57	362.42	363.36	363.31	364.35	---	367.28	366.23	366.18	365.29
30	363.53	362.98	362.54	362.37	---	363.29	364.36	---	367.30	366.26	366.16	365.27
31	363.51	---	362.51	362.34	---	363.28	---	---	---	366.28	366.12	---
MEAN	363.80	363.26	362.75	---	363.15	363.52	363.27	---	---	---	366.11	365.68
MAX	364.02	363.49	362.97	---	363.37	363.76	364.37	---	---	---	366.31	366.09
MIN	363.51	362.98	362.51	---	362.25	363.28	362.72	---	---	---	365.81	365.27

08064510 Halbert Lake near Corsicana, TX—Continued



08064550 Richland-Chambers Reservoir near Kerens, TX

LOCATION.--Lat 32°02'25", long 96°12'23", Navarro County, Hydrologic Unit 12030109, on upper floor of pumphouse, on left bank of Chambers Creek arm of Richland-Chambers Reservoir, 7.0 mi south of intersection of State Highway 31 and Farm Road 309 in Kerens, and 14.4 mi upstream from dam on Richland Creek.

DRAINAGE AREA.--1,957 mi².

PERIOD OF RECORD.--Nov. 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.70 ft above NGVD of 1929 (Levels by Tarrant Regional Water District). Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by a rolled earthfill dam 31,000 ft long. Deliberate impoundment of water began July 14, 1987, and the dam was completed in Dec. 1988. A gated concrete spillway is located near the left end of dam. The spillway is 1,155 ft long and contains twenty-four 40- x 29.4-ft radial gates. The low flow outlet works consist of two 3- x 5-ft outlets at elevation 266.0 ft, one 1.5 x 2.5 ft outlet, and one 1 x 1 ft outlet at elevation 285.0 ft. Each of the low flow outlets is controlled by sluice gates. The dam is owned by Tarrant Regional Water District, and was built for municipal and industrial water supply and for recreation. Flow from 464 mi² above the dam is controlled by Bardwell and Navarro Mills Lakes. Conservation pool storage is 1,136,600 acre-ft.

COOPERATION.--Capacity table No. 1-C was prepared by Freese and Nichols, consulting engineers for Tarrant Regional Water District. A new capacity table, No. 2-C, was prepared by the Texas Water Development Board and put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,267,000 acre-ft, Dec. 22, 1991 elevation 316.85 ft; minimum contents after initial filling, 862,000 acre-ft, Nov. 23, 1996 elevation, 308.05 ft.

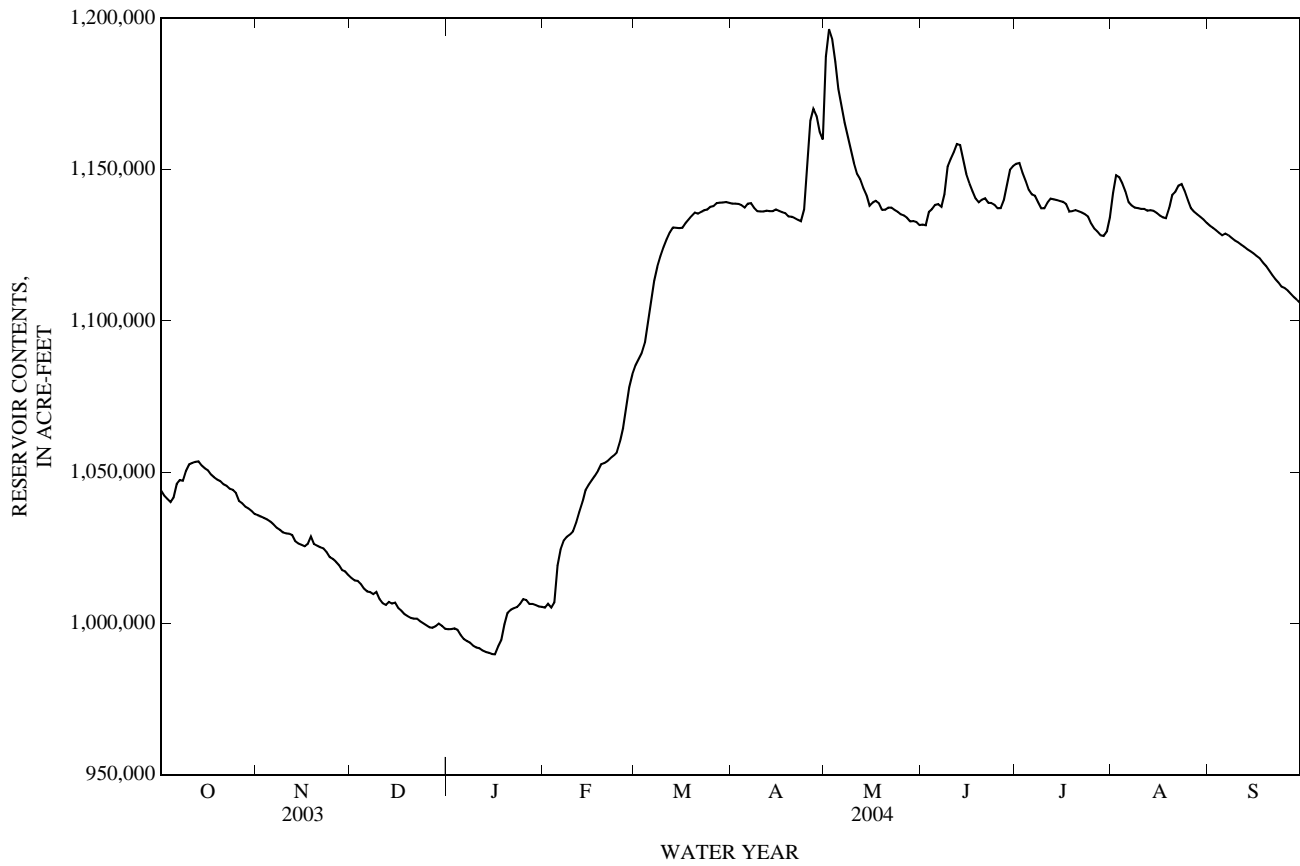
EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,198,000 acre-ft, May 1, gage height, 316.48 ft; minimum contents, 989,100 acre-ft, Jan. 16, gage height, 311.36 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,044,000	1,036,000	1,015,000	998,100	1,005,000	1,085,000	1,139,000	1,187,000	1,132,000	1,152,000	1,142,000	1,132,000
2	1,042,000	1,035,000	1,014,000	998,100	1,006,000	1,087,000	1,139,000	1,196,000	1,132,000	1,152,000	1,148,000	1,131,000
3	1,041,000	1,035,000	1,014,000	998,400	1,005,000	1,089,000	1,139,000	1,193,000	1,136,000	1,149,000	1,148,000	1,130,000
4	1,040,000	1,034,000	1,013,000	997,900	1,007,000	1,093,000	1,138,000	1,186,000	1,137,000	1,146,000	1,145,000	1,129,000
5	1,042,000	1,034,000	1,011,000	996,100	1,019,000	1,099,000	1,137,000	1,177,000	1,138,000	1,143,000	1,143,000	1,128,000
6	1,046,000	1,033,000	1,011,000	994,900	1,024,000	1,106,000	1,139,000	1,171,000	1,139,000	1,142,000	1,139,000	1,129,000
7	1,047,000	1,032,000	1,010,000	994,200	1,027,000	1,113,000	1,139,000	1,166,000	1,138,000	1,141,000	1,138,000	1,128,000
8	1,047,000	1,031,000	1,010,000	993,600	1,029,000	1,118,000	1,137,000	1,161,000	1,142,000	1,139,000	1,137,000	1,127,000
9	1,050,000	1,030,000	1,010,000	992,700	1,029,000	1,121,000	1,136,000	1,157,000	1,151,000	1,137,000	1,137,000	1,127,000
10	1,053,000	1,030,000	1,008,000	992,100	1,030,000	1,124,000	1,136,000	1,152,000	1,153,000	1,137,000	1,137,000	1,126,000
11	1,053,000	1,030,000	1,007,000	991,800	1,033,000	1,127,000	1,136,000	1,149,000	1,156,000	1,139,000	1,137,000	1,125,000
12	1,053,000	1,029,000	1,006,000	991,000	1,037,000	1,129,000	1,136,000	1,147,000	1,158,000	1,140,000	1,136,000	1,125,000
13	1,054,000	1,027,000	1,007,000	990,600	1,040,000	1,131,000	1,136,000	e1,144,000	1,158,000	1,140,000	1,137,000	1,124,000
14	1,052,000	1,026,000	1,007,000	990,300	1,044,000	1,131,000	1,136,000	e1,142,000	1,153,000	1,140,000	1,136,000	1,123,000
15	1,051,000	1,026,000	1,007,000	989,900	1,046,000	1,131,000	1,137,000	1,138,000	1,148,000	1,140,000	1,136,000	1,122,000
16	1,051,000	1,025,000	1,005,000	989,800	1,047,000	1,131,000	1,136,000	1,139,000	1,146,000	1,139,000	1,135,000	1,121,000
17	1,049,000	1,026,000	1,004,000	992,400	1,049,000	1,132,000	1,136,000	1,140,000	1,143,000	1,139,000	1,134,000	1,121,000
18	1,048,000	1,029,000	1,003,000	994,400	1,050,000	1,133,000	1,136,000	1,139,000	1,140,000	1,136,000	1,134,000	1,119,000
19	1,048,000	1,026,000	1,002,000	999,700	1,053,000	1,135,000	1,135,000	1,137,000	1,139,000	1,136,000	1,137,000	1,118,000
20	e1,047,000	1,026,000	1,002,000	1,003,000	1,053,000	1,136,000	1,134,000	1,137,000	1,140,000	1,137,000	1,142,000	1,117,000
21	1,046,000	1,025,000	1,002,000	1,004,000	1,054,000	1,135,000	1,134,000	1,137,000	1,141,000	1,136,000	1,143,000	1,115,000
22	1,045,000	1,025,000	1,002,000	1,005,000	1,055,000	1,136,000	1,133,000	1,137,000	1,139,000	1,136,000	1,145,000	1,114,000
23	1,045,000	1,024,000	1,001,000	1,005,000	1,055,000	1,137,000	1,133,000	1,137,000	1,139,000	1,135,000	1,145,000	1,113,000
24	1,044,000	1,022,000	1,000,000	1,006,000	1,056,000	1,137,000	1,137,000	1,136,000	1,138,000	1,134,000	1,143,000	1,111,000
25	1,043,000	1,021,000	999,400	1,008,000	1,060,000	1,138,000	1,152,000	1,135,000	1,137,000	1,132,000	1,140,000	1,111,000
26	1,040,000	1,020,000	998,700	1,008,000	1,064,000	1,138,000	1,166,000	1,135,000	1,137,000	1,131,000	1,137,000	1,110,000
27	1,040,000	1,019,000	998,500	1,006,000	1,072,000	1,139,000	1,170,000	1,134,000	1,140,000	1,130,000	1,136,000	1,109,000
28	1,039,000	1,018,000	999,100	1,006,000	1,078,000	1,139,000	1,168,000	1,133,000	1,145,000	1,128,000	1,135,000	1,108,000
29	1,038,000	1,017,000	999,900	1,006,000	1,082,000	1,139,000	1,163,000	1,133,000	1,150,000	1,128,000	1,134,000	1,107,000
30	1,037,000	1,016,000	999,200	1,006,000	---	1,139,000	1,160,000	1,133,000	1,151,000	1,130,000	1,134,000	1,106,000
31	1,036,000	---	998,200	1,005,000	---	1,139,000	---	1,132,000	---	1,134,000	1,132,000	---
MEAN	1,046,000	1,027,000	1,005,000	998,500	1,042,000	1,125,000	1,142,000	1,150,000	1,143,000	1,138,000	1,139,000	1,120,000
MAX	1,054,000	1,036,000	1,015,000	1,008,000	1,082,000	1,139,000	1,170,000	1,196,000	1,158,000	1,152,000	1,148,000	1,132,000
MIN	1,036,000	1,016,000	998,200	989,800	1,005,000	1,085,000	1,133,000	1,132,000	1,132,000	1,128,000	1,132,000	1,106,000
CAL YR	2003	MEAN	1,103,000	MAX	1,184,000	MIN	998,200					
WTR YR	2004	MEAN	1,090,000	MAX	1,196,000	MIN	989,800					

e Estimated

08064550 Richland-Chambers Reservoir near Kerens, TX—Continued



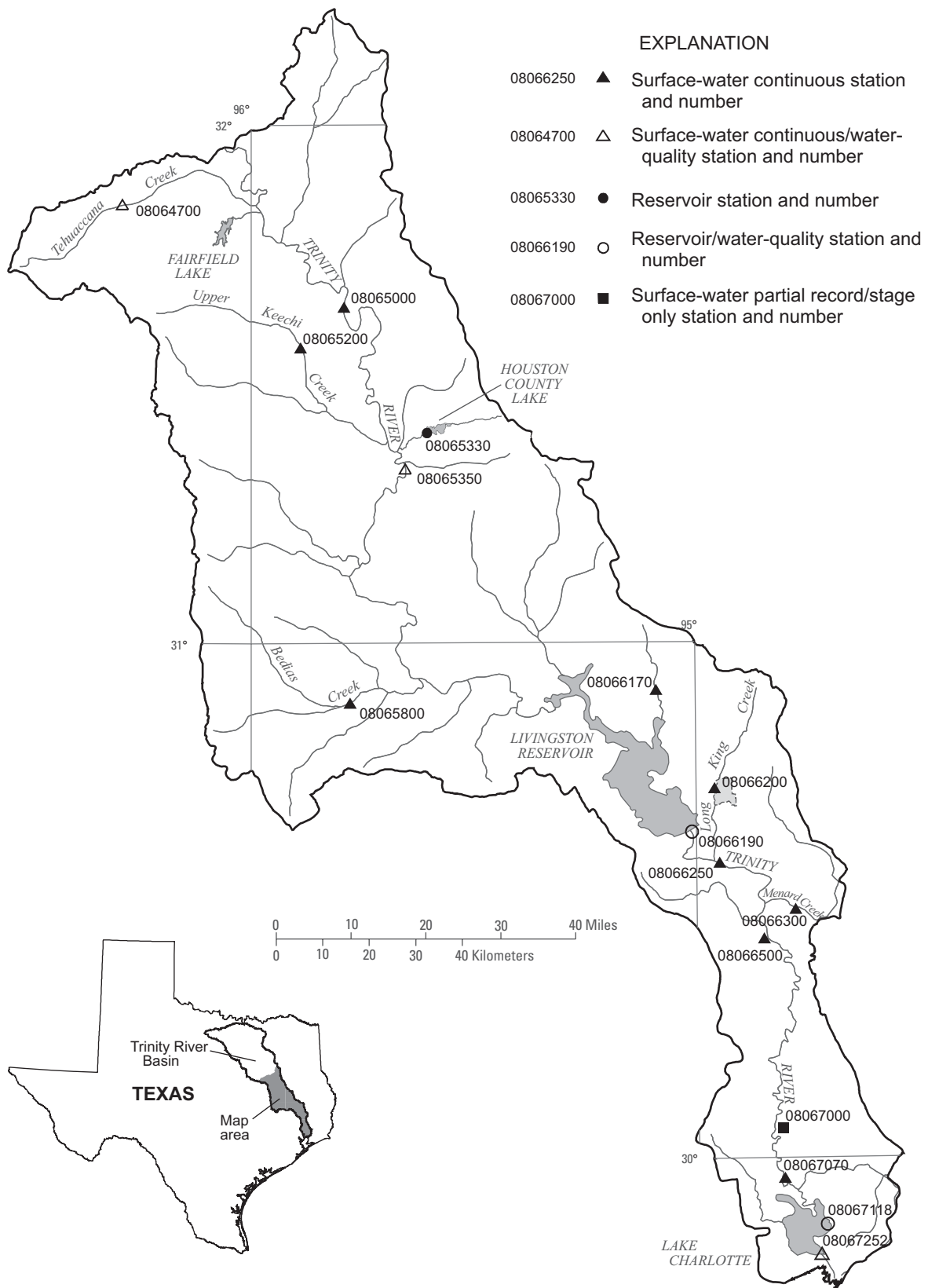


Figure 6.--Map showing location of gaging stations in the third section of the Trinity River Basin

08064700	Tehuacana Creek near Streetman, TX	346
08065000	Trinity River near Oakwood, TX	350
08065200	Upper Keechi Creek near Oakwood, TX	352
08065330	Houston County Lake near Crockett, TX	354
08065350	Trinity River near Crockett, TX	356
08065800	Bedias Creek near Madisonville, TX	368
08066170	Kickapoo Creek near Onalaska, TX	370
08066190	Livingston Reservoir near Goodrich, TX	372
08066200	Long King Creek at Livingston, TX	382
08066250	Trinity River near Goodrich, TX	384
08066300	Menard Creek near Rye, TX	386
08066500	Trinity River at Romayor, TX	388
08067000	Trinity River at Liberty, TX	390
08067070	CWA Canal near Dayton, TX	392
08067118	Lake Charlotte near Anahuac, TX	394
08067252	Trinity River at Wallisville, TX	402

TRINITY RIVER BASIN

08064700 Tehuacana Creek near Streetman, TX

LOCATION.--Lat 31°50'54", long 96°17'23", Freestone County, Hydrologic Unit 12030201, on downstream side at right end of bridge on U.S. Hwy 75 bridge, 2.8 mi southeast of Streetman, 3.1 mi downstream from Burlington Northern and Santa Fe Railroad Co. bridge, 3.8 mi upstream from Caney Creek, and 25.0 mi upstream from mouth.

DRAINAGE AREA.--142 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr. 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 287.58 ft above NGVD of 1929. From Dec. 14, 1993 to Aug. 14, 2001, at site 0.2 mi upstream at datum 7.45 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for Mar. 4 to Sept. 30 and estimated daily discharges, which are fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Sept. 1932 reached a stage of about 24 ft at site and datum 0.2 mi downstream from information by Texas Department of Transportation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.09	0.25	1.4	6.6	1.2	2,480	1.4	55	0.30	0.07
2	0.02	0.00	0.10	0.46	1.4	6.7	1.2	1,860	1.9	20	0.70	0.07
3	0.01	0.00	0.10	0.40	1.4	6.5	1.1	105	68	6.6	0.52	0.06
4	0.01	0.00	0.09	0.33	13	9.4	1.2	25	37	3.0	0.43	0.04
5	0.30	0.00	0.08	0.26	1,930	226	1.3	13	91	1.9	0.38	0.04
6	0.75	0.01	0.08	0.18	233	46	1.4	6.3	17	1.3	0.32	354
7	0.52	0.01	0.09	0.13	27	11	2.0	3.6	4.7	1.0	0.26	189
8	0.46	0.01	0.10	0.12	12	4.1	3.3	2.7	694	0.85	0.22	23
9	6.4	0.01	0.11	0.12	7.7	2.2	2.9	2.3	4,020	0.73	0.21	12
10	159	0.01	0.13	0.10	6.2	1.6	2.0	2.3	2,040	0.67	0.19	8.8
11	14	0.01	0.09	0.08	6.2	1.4	1.7	4.8	502	0.65	0.17	7.5
12	2.7	0.02	0.05	0.08	153	1.2	1.8	3.3	44	0.52	0.15	7.3
13	1.0	0.03	0.07	0.08	56	1.1	1.7	2.6	14	0.42	0.14	6.9
14	0.51	0.02	0.07	0.09	23	1.1	1.3	2.5	7.7	0.41	0.13	6.6
15	0.24	0.01	0.09	0.09	64	1.2	0.95	2.7	5.5	0.35	0.12	6.1
16	0.14	0.01	0.11	0.10	31	1.2	0.92	2.2	4.6	0.28	0.10	5.6
17	0.12	0.03	0.12	21	14	1.2	0.88	1.9	4.0	0.23	0.09	5.3
18	0.08	0.12	0.12	16	8.6	1.2	0.79	1.8	2.0	0.22	0.08	5.2
19	0.07	0.47	0.10	4.2	6.6	1.2	0.80	e1.6	1.4	0.20	0.43	5.0
20	0.07	1.1	0.10	2.4	5.7	1.2	0.80	e1.4	1.4	0.18	0.61	4.7
21	0.06	0.56	0.10	1.8	5.2	1.2	0.78	e1.3	1.5	0.17	0.46	4.6
22	0.05	0.39	0.11	1.6	5.0	1.4	0.77	1.2	1.7	0.17	0.48	4.5
23	0.04	0.45	0.14	1.4	5.0	1.3	0.73	1.1	1.6	0.19	0.52	4.3
24	0.03	0.20	0.14	1.4	4.9	1.3	196	1.1	1.3	0.20	0.48	4.2
25	0.01	0.12	0.14	1.6	7.8	1.4	972	1.1	1.0	0.22	0.46	4.5
26	0.01	0.15	0.14	1.8	34	1.4	870	1.1	8.0	0.23	0.51	4.6
27	0.01	0.18	0.15	1.8	19	1.4	52	1.1	372	0.23	0.41	4.6
28	0.01	0.18	0.28	2.1	9.5	1.4	12	1.1	170	0.22	0.26	4.5
29	0.00	0.13	0.37	1.9	7.1	1.4	5.1	1.0	178	0.27	0.18	4.5
30	0.00	0.09	0.58	1.7	---	1.4	3.3	0.97	50	0.30	0.12	4.4
31	0.00	---	0.38	1.5	---	1.3	---	1.2	---	0.29	0.08	---
TOTAL	186.65	4.32	4.42	65.07	2,698.7	347.0	2,141.92	4,537.27	8,346.7	97.00	9.51	691.98
MEAN	6.02	0.14	0.14	2.10	93.1	11.2	71.4	146	278	3.13	0.31	23.1
MAX	159	1.1	0.58	21	1,930	226	972	2,480	4,020	55	0.70	354
MIN	0.00	0.00	0.05	0.08	1.4	1.1	0.73	0.97	1.0	0.17	0.08	0.04
AC-FT	370	8.6	8.8	129	5,350	688	4,250	9,000	16,560	192	19	1,370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	51.2	60.5	146	78.4	176	118	94.5	212	73.9	3.54	13.5	26.4
MAX	379	399	1,013	381	930	1,048	762	2,927	388	35.1	234	547
(WY)	(1974)	(1999)	(1992)	(1998)	(1986)	(1990)	(1997)	(1989)	(1981)	(1976)	(1983)	(1974)
MIN	0.00	0.00	0.00	0.12	0.45	0.25	0.00	0.02	0.04	0.00	0.00	0.00
(WY)	(1981)	(1981)	(2000)	(1971)	(1996)	(1996)	(1971)	(1971)	(1996)	(1978)	(1969)	(1980)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

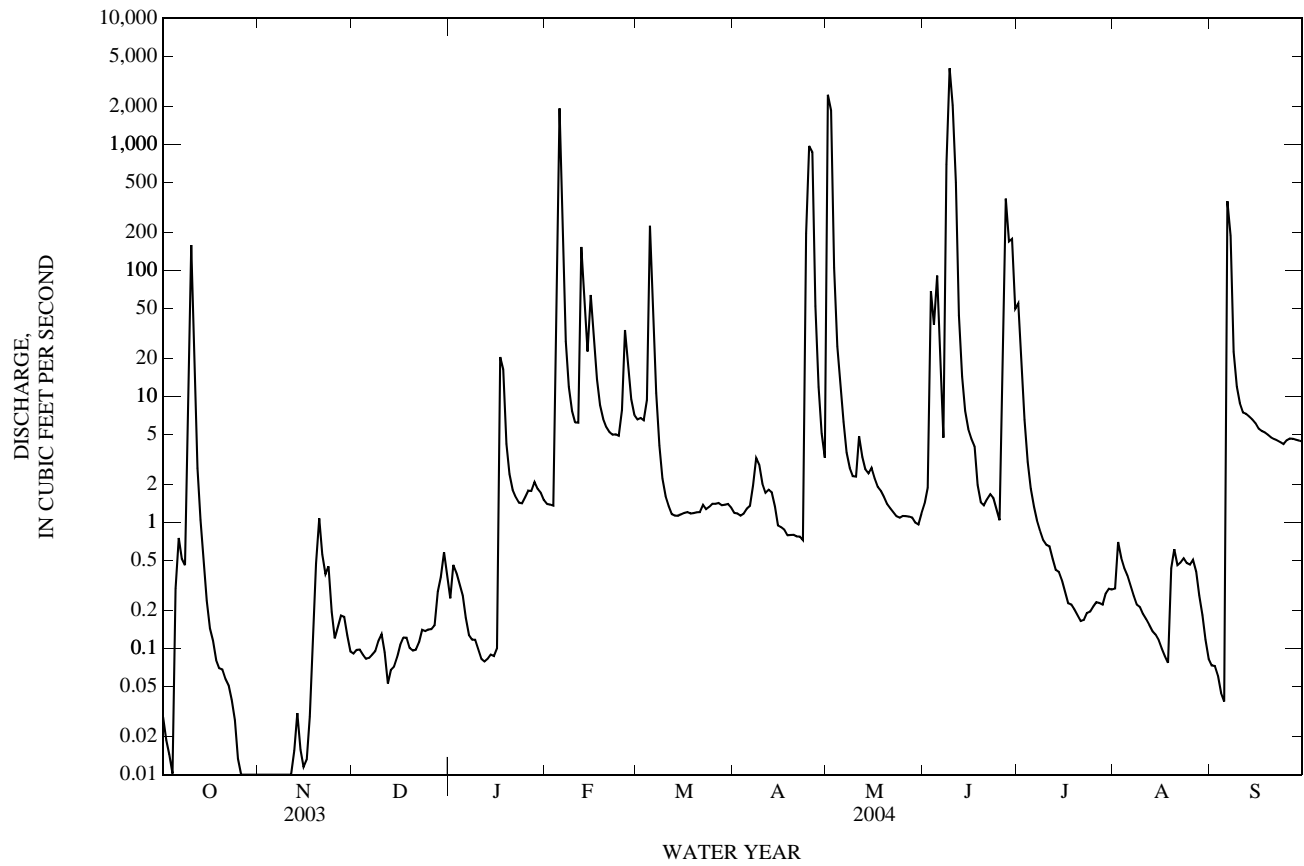
WATER YEARS 1968 - 2004

ANNUAL TOTAL	24,508.50	19,130.54	86.0
ANNUAL MEAN	67.1	52.3	274
HIGHEST ANNUAL MEAN			1989
LOWEST ANNUAL MEAN			1996
HIGHEST DAILY MEAN	6,960	4,020	42,000
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
MAXIMUM PEAK FLOW		5,430	g85,700
MAXIMUM PEAK STAGE		22.95	34.99
ANNUAL RUNOFF (AC-FT)	48,610	37,950	62,320
10 PERCENT EXCEEDS	14	22	53
50 PERCENT EXCEEDS	1.0	1.1	1.6
90 PERCENT EXCEEDS	0.00	0.07	0.00

g At site and datum then in use.

e Estimated

08064700 Tehuacana Creek near Streetman, TX—Continued



08064700 Tehuacana Creek near Streetman, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Feb. 1968 to Sept. 1985, Oct. 1990 to current year.

BIOCHEMICAL DATA: Oct. 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
MAR 24...	1255	1.4	--	757	7.6	83	7.0	743	19.0	89	220	56.0	20.3
JUL 08...	1030	.83	38	753	5.8	78	7.4	600	29.9	32	160	41.4	13.5
21...	1555	.15	14	755	4.8	64	7.0	1,060	30.3	120	300	75.7	27.9
AUG 16...	1325	.09	--	778	6.0	66	7.7	1,510	21.0	140	390	92.6	37.8
SEP 01...	1045	.08	--	761	5.4	66	7.7	1,550	25.1	190	420	102	41.3
09...	1131	12	--	770	4.8	56	7.0	186	23.3	8	52	13.6	4.47

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
MAR 24...	5.61	2	74.8	41	--	135	164	<1	91.7	.3	10.9	90.4	431
JUL 08...	6.48	2	44.7	37	--	128	155	<1	49.7	.2	17.0	62.6	312
21...	6.62	3	103	42	--	189	229	<1	133	.4	17.3	129	606
AUG 16...	6.22	3	157	46	--	252	305	1	196	.5	11.8	227	880
SEP 01...	6.55	4	173	47	--	236	285	<1	214	.5	11.5	223	912
09...	7.05	.7	10.9	28	45	--	54	<1	11.7	<.2	9.97	16.5	103

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
MAR 24...	456	<20d	.51	<.04	--	<.06	<.008	--	--	<.02	<.04	10.0	E2.1
JUL 08...	336	14	.71	<.04	--	<.06	<.008	--	.058	.02	.05	16.5	<2.0@
21...	641	18	.65	.05	--	<.06	<.008	.60	--	E.01n	E.03n	11.5	<2.0
AUG 16...	942	17	.51	<.04	--	<.06	<.008	--	--	<.02	E.02n	13.4	<2.0
SEP 01...	952	22	.52	<.04	--	<.06	<.008	--	--	E.01n	E.04n	11.6	<2.0
09...	116	39	.91	.06	.15	.17	.011	.85	1.00	.33	.36	15.8	3.0

08064700 Tehuacana Creek near Streetman, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Alum- inum, water, fltrd, ug/L (01106)	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)
MAR 24...	4	E.13n	1.2	80	<.06	<.04	<.8	.650	2.8	61	E.08n	166	<.02
JUL 08...	3	E.16n	2.0	70	<.06	<.04	<.8	.285	3.1	53	<.08	34.7	<.02
21...	43	E.15n	2.5	109	<.06	<.04	<.8	.447	2.7	8	.16	201	<.02
AUG 16...	E1n	E.17n	2.2	140	<.06	<.04	<.8	.591	2.3	7	.23	156	<.02
SEP 01...	--	--	--	--	--	--	--	--	--	<6	--	328	--
09...	--	--	--	--	--	--	--	--	--	98	--	44.1	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
MAR 24...	.6	5.59	.4	<.2	1.2	1.62
JUL 08...	.6	3.75	<.4	<.2	.6	1.01
21...	.8	4.08	1.4	<.2	1.5	2.04
AUG 16...	1.3	4.51	.6	<.2	3.3	3.24
SEP 01...	--	--	--	--	--	--
09...	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

@-- Holding time exceeded

d -- Diluted sample: method hi range exceeded

n -- Below the LRL and above the LT-MDL

08065000 Trinity River near Oakwood, TX

LOCATION.--Lat 31°38'54", long 95°47'21", Anderson County, Hydrologic Unit 12030201, on left bank at downstream side of bridge on U.S. Highways 79 and 84, 1.5 mi upstream from Missouri Pacific Railroad Co. bridge, 6.0 mi northeast of Oakwood, and at mile 313.4.

DRAINAGE AREA.--12,833 mi².

PERIOD OF RECORD.--Oct. 1923 to Sept. 1924 (monthly discharge only), Oct. 1924 to current year. Records of Jan. 1905 to Sept. 1923, published in WSP 850 and 878, have been found unreliable and should not be used. Gage-height records collected in this vicinity since 1904 are contained in reports of the National Weather Service. Water-quality records: Sediment data: Dec. 1976 to Sept. 1981. Specific conductance: Dec. 1976 to Sept. 1981. Water temperature: Dec. 1976 to Sept. 1981. Suspended sediment data: Dec. 1976 to Sept. 1981.

REVISED RECORDS.--WSP 1442: 1934. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M,m).

GAGE.--Water-stage recorder. Datum of gage is 175.06 ft above NGVD of 1929. Prior to July 1932, nonrecording gage at site 1.5 mi downstream at datum 1.06 ft lower. July 15, 1932, to Oct. 7, 1934, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. The Industrial Generating Co. at Fairfield makes a minor diversion from the river at a site about 34 mi upstream. The diversion to Fairfield Lake (capacity 50,600 acre-ft) is used to maintain the normal pool elevation for that lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1890 reached a stage of 53 ft (discharge about 180,000 ft³/s) and was the highest since that date, from information in local newspapers. Flood of June 4, 1908, reached a stage of 52.2 ft, present site and datum, from information by the National Weather Service (discharge, about 164,000 ft³/s).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	879	827	1,010	1,650	1,610	8,420	1,980	17,300	4,870	15,100	10,100	4,610
2	865	797	953	1,470	1,670	5,290	1,660	19,100	2,770	16,000	11,800	3,280
3	847	789	914	1,310	1,470	5,800	1,530	19,100	2,010	16,800	13,000	2,460
4	829	789	919	1,220	1,540	6,240	1,520	19,800	3,070	17,700	13,900	2,250
5	872	793	965	1,130	2,910	6,460	1,380	21,600	6,590	18,500	14,700	1,930
6	1,070	823	968	1,100	5,870	6,640	1,360	24,400	8,610	19,200	15,600	1,770
7	1,220	867	963	1,100	8,050	9,050	1,650	26,700	8,650	19,700	16,400	1,610
8	1,620	842	937	1,150	8,390	10,200	2,130	26,900	6,780	20,100	17,100	1,950
9	2,180	946	936	1,110	5,770	8,800	2,310	24,700	7,200	19,900	17,100	2,940
10	2,130	2,750	910	1,070	3,780	5,830	2,340	18,500	e10,400	18,400	15,400	2,990
11	2,070	4,380	921	1,020	3,030	4,030	2,000	10,800	e13,100	14,300	10,700	2,140
12	2,520	3,750	956	978	3,500	3,400	1,700	7,320	e14,700	10,000	6,770	1,800
13	2,290	2,410	995	954	4,310	3,190	1,510	6,430	e15,900	8,080	5,220	1,450
14	2,010	1,530	e996	963	6,490	3,220	1,420	7,140	16,800	7,470	4,650	1,280
15	1,950	1,170	2,240	996	6,460	3,210	1,490	7,150	17,400	6,900	4,120	1,250
16	1,520	1,110	3,660	1,010	5,090	4,050	1,510	5,310	17,700	6,050	3,530	1,230
17	1,710	1,030	2,650	1,070	4,140	4,500	1,410	3,740	17,800	4,970	2,850	1,310
18	1,590	1,140	1,640	1,730	3,710	3,390	1,310	3,740	17,800	4,280	2,430	1,670
19	1,090	1,160	1,300	6,880	3,210	2,550	1,250	3,920	17,800	3,320	2,400	1,580
20	943	3,050	1,190	10,300	3,050	2,220	1,200	4,070	17,700	2,400	2,650	1,350
21	927	4,700	1,110	11,700	2,590	2,050	1,190	2,290	17,700	2,220	3,660	1,230
22	917	3,300	1,090	10,600	2,100	2,090	1,180	1,550	17,500	2,140	7,140	1,170
23	910	1,850	1,080	5,860	1,910	2,100	1,160	1,430	17,100	2,020	9,490	1,160
24	889	1,380	1,080	2,670	1,770	1,780	1,500	1,320	e15,800	1,980	9,100	1,140
25	867	1,210	1,100	2,020	1,820	1,710	3,260	1,240	e14,400	1,910	6,390	1,120
26	858	1,170	1,110	1,800	3,740	1,650	8,660	1,220	e13,300	1,680	4,500	1,100
27	824	1,280	1,100	1,850	7,540	1,570	13,000	1,220	e11,500	1,450	3,570	1,040
28	820	1,210	1,100	2,290	10,300	1,560	15,100	1,190	e11,900	1,340	2,690	973
29	833	1,090	1,470	2,050	10,900	1,560	16,300	1,140	12,700	1,310	2,430	917
30	836	1,040	1,390	1,680	---	1,500	16,700	1,930	13,900	1,800	2,400	906
31	832	---	1,470	1,520	---	1,840	---	5,010	---	6,280	4,190	---
TOTAL	39,718	49,183	39,123	82,251	126,720	125,900	110,710	297,260	373,450	273,300	245,980	51,606
MEAN	1,281	1,639	1,262	2,653	4,370	4,061	3,690	9,589	12,450	8,816	7,935	1,720
MAX	2,520	4,700	3,660	11,700	10,900	10,200	16,700	26,900	17,800	20,100	17,100	4,610
MIN	820	789	910	954	1,470	1,500	1,160	1,140	2,010	1,310	2,400	906
AC-FT	78,780	97,550	77,600	163,100	251,300	249,700	219,600	589,600	740,700	542,100	487,900	102,400

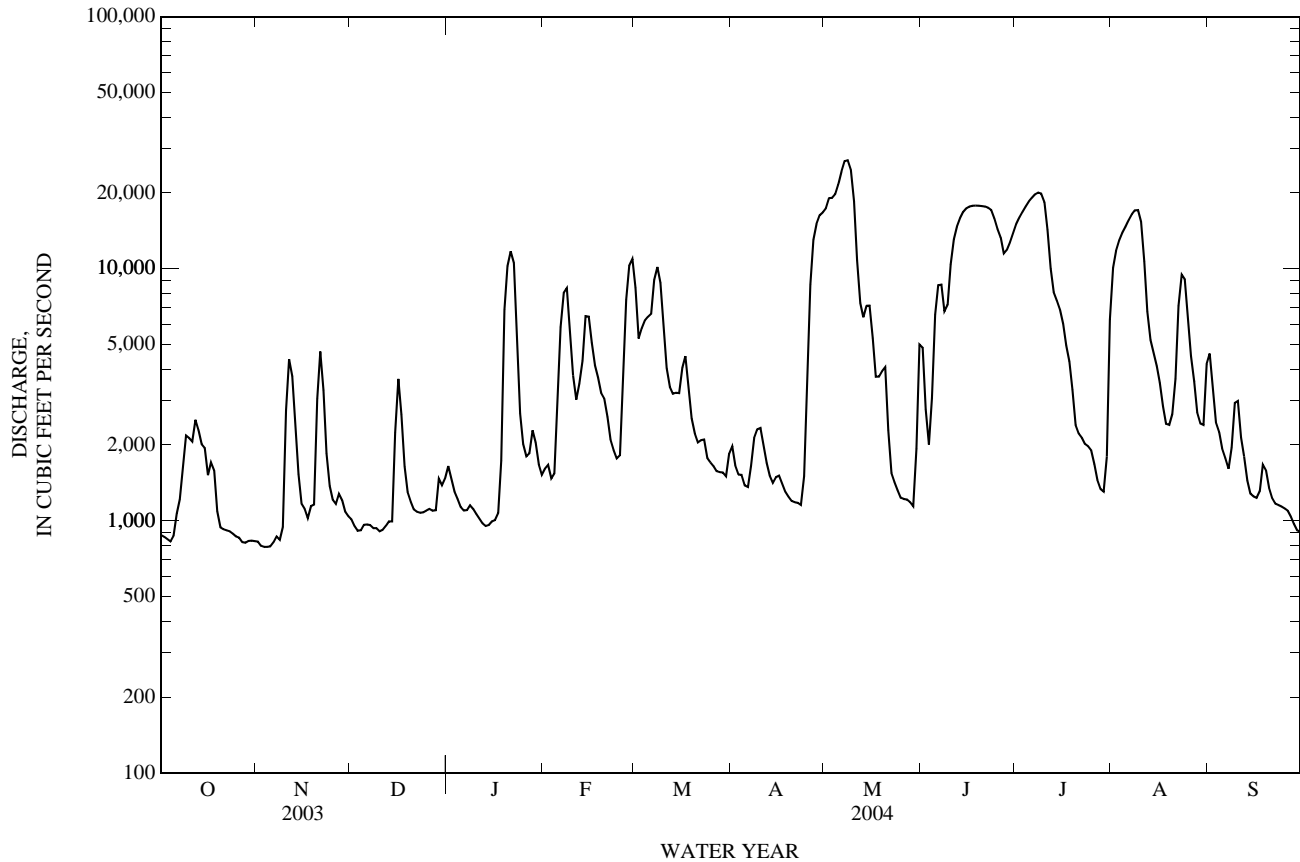
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

	MEAN	2,448	3,595	5,166	5,234	6,486	7,835	7,736	11,260	7,796	2,777	1,341	1,475
MAX	14,250	25,900	33,280	31,870	35,060	40,450	45,710	56,050	33,550	15,240	7,935	7,361	
(WY)	(1974)	(1975)	(1992)	(1998)	(1932)	(1945)	(1945)	(1990)	(1957)	(1941)	(2004)	(1962)	
MIN	85.0	100	146	166	222	242	278	812	151	74.2	62.7	62.8	
(WY)	(1925)	(1925)	(1926)	(1940)	(1925)	(1925)	(1925)	(1971)	(1925)	(1925)	(1925)	(1930)	

08065000 Trinity River near Oakwood, TX—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	1,216,656		1,815,201		5,254	
ANNUAL MEAN	3,333		4,960		15,240	
HIGHEST ANNUAL MEAN					657	
LOWEST ANNUAL MEAN					153,000	
HIGHEST DAILY MEAN	33,200	Feb 28	26,900	May 8	153,000	Apr 29, 1942
LOWEST DAILY MEAN	706	Aug 10	789	Nov 3	28	Nov 1, 1924
ANNUAL SEVEN-DAY MINIMUM	735	Aug 5	807	Oct 31	38	Aug 19, 1925
MAXIMUM PEAK FLOW			27,300	May 8	153,000	Apr 29, 1942
MAXIMUM PEAK STAGE			39.03	May 8	51.64	Apr 29, 1942
ANNUAL RUNOFF (AC-FT)	2,413,000		3,600,000		3,806,000	
10 PERCENT EXCEEDS	7,360		15,700		14,900	
50 PERCENT EXCEEDS	1,440		2,120		1,530	
90 PERCENT EXCEEDS	869		955		312	

e Estimated



08065200 Upper Keechi Creek near Oakwood, TX

LOCATION.--Lat 31°34'11", long 95°53'17", Leon County, Hydrologic Unit 12030201, on right bank 20 ft downstream from bridge on U.S. Highway 79, 1.9 mi upstream from Missouri-Pacific Railroad Co. bridge, 2.0 mi southwest of Oakwood, 11 mi upstream from Buffalo Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--150 mi².

PERIOD OF RECORD.--Apr. 1962 to current year. Water-quality records: Chemical data: June 1962 to Apr. 1964, Nov. 1967 to Sept. 1975.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 240.11 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 21 ft in 1932, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.8	5.8	31	18	62	11	424	8.9	454	11	4.4
2	0.97	3.0	5.7	23	25	55	11	1,930	9.7	507	14	4.0
3	0.86	3.5	5.9	19	28	54	10	1,090	70	291	9.1	3.8
4	0.80	4.0	6.0	16	25	80	10	608	135	66	5.5	3.8
5	0.96	4.4	5.8	12	94	231	9.3	128	70	44	4.4	3.6
6	3.0	4.2	5.4	8.4	115	269	15	64	26	34	3.7	3.6
7	20	4.0	5.4	6.9	78	213	39	50	18	29	3.3	3.4
8	21	4.2	5.7	6.7	42	64	44	38	67	25	2.9	3.1
9	25	5.4	6.5	7.0	39	45	27	33	361	22	2.6	2.7
10	99	6.0	7.1	6.7	115	35	17	31	1,690	20	2.5	2.3
11	111	5.9	7.0	6.0	187	30	17	32	1,370	18	2.3	2.1
12	35	6.1	8.4	6.1	247	26	19	35	1,210	17	2.0	1.9
13	16	6.0	13	6.3	265	25	20	36	681	15	1.8	1.8
14	10	5.0	16	6.5	269	27	17	95	116	13	1.7	1.9
15	7.6	4.7	15	6.3	132	27	14	149	99	12	1.7	1.9
16	6.2	21	13	7.7	114	27	11	68	134	10	1.7	2.0
17	5.3	24	9.7	31	70	25	9.9	39	68	9.3	1.6	2.0
18	4.5	39	7.2	54	52	23	8.7	27	51	8.1	1.5	1.8
19	4.2	75	7.2	46	44	21	7.7	22	40	7.2	12	1.6
20	3.9	36	6.9	35	39	20	8.0	18	34	6.2	66	1.5
21	3.8	16	7.0	29	36	19	10	15	33	5.6	142	1.3
22	3.1	11	7.6	23	32	17	8.7	14	33	5.0	210	1.1
23	2.7	8.8	10	20	30	16	8.0	14	50	4.9	171	0.80
24	2.6	7.1	13	25	30	15	58	12	74	4.8	101	0.70
25	2.5	7.3	11	57	40	18	227	11	42	4.6	90	0.78
26	2.4	7.3	9.2	45	53	19	284	10	67	4.3	31	2.2
27	2.4	8.6	9.5	34	53	18	228	9.9	178	4.2	16	13
28	2.6	7.3	17	24	40	17	67	9.4	278	3.9	10	7.9
29	2.5	6.2	89	20	39	16	44	8.9	552	3.9	7.9	4.6
30	2.4	5.8	147	19	---	14	68	8.6	478	4.6	6.3	3.5
31	2.5	---	67	19	---	12	---	8.6	---	8.7	5.2	---
TOTAL	405.89	349.6	550.0	656.6	2,351	1,540	1,328.3	5,038.4	8,043.6	1,662.3	941.7	89.08
MEAN	13.1	11.7	17.7	21.2	81.1	49.7	44.3	163	268	53.6	30.4	2.97
MAX	111	75	147	57	269	269	284	1,930	1,690	507	210	13
MIN	0.80	2.8	5.4	6.0	18	12	7.7	8.6	8.9	3.9	1.5	0.70
AC-FT	805	693	1,090	1,300	4,660	3,050	2,630	9,990	15,950	3,300	1,870	177
CFSM	0.09	0.08	0.12	0.14	0.54	0.33	0.30	1.08	1.79	0.36	0.20	0.02
IN.	0.10	0.09	0.14	0.16	0.58	0.38	0.33	1.25	1.99	0.41	0.23	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	41.9	53.1	111	105	125	123	111	134	69.1	13.7	5.89	13.6
MAX	371	513	878	614	425	461	574	1,413	517	128	54.5	246
(WY)	(1974)	(1975)	(1992)	(1999)	(1997)	(1973)	(1966)	(1965)	(1976)	(1981)	(1979)	(1974)
MIN	0.00	0.00	0.36	4.03	8.28	8.79	8.41	1.82	0.48	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1996)	(1971)	(1972)	(1963)	(1964)	(1963)	(1963)

SUMMARY STATISTICS

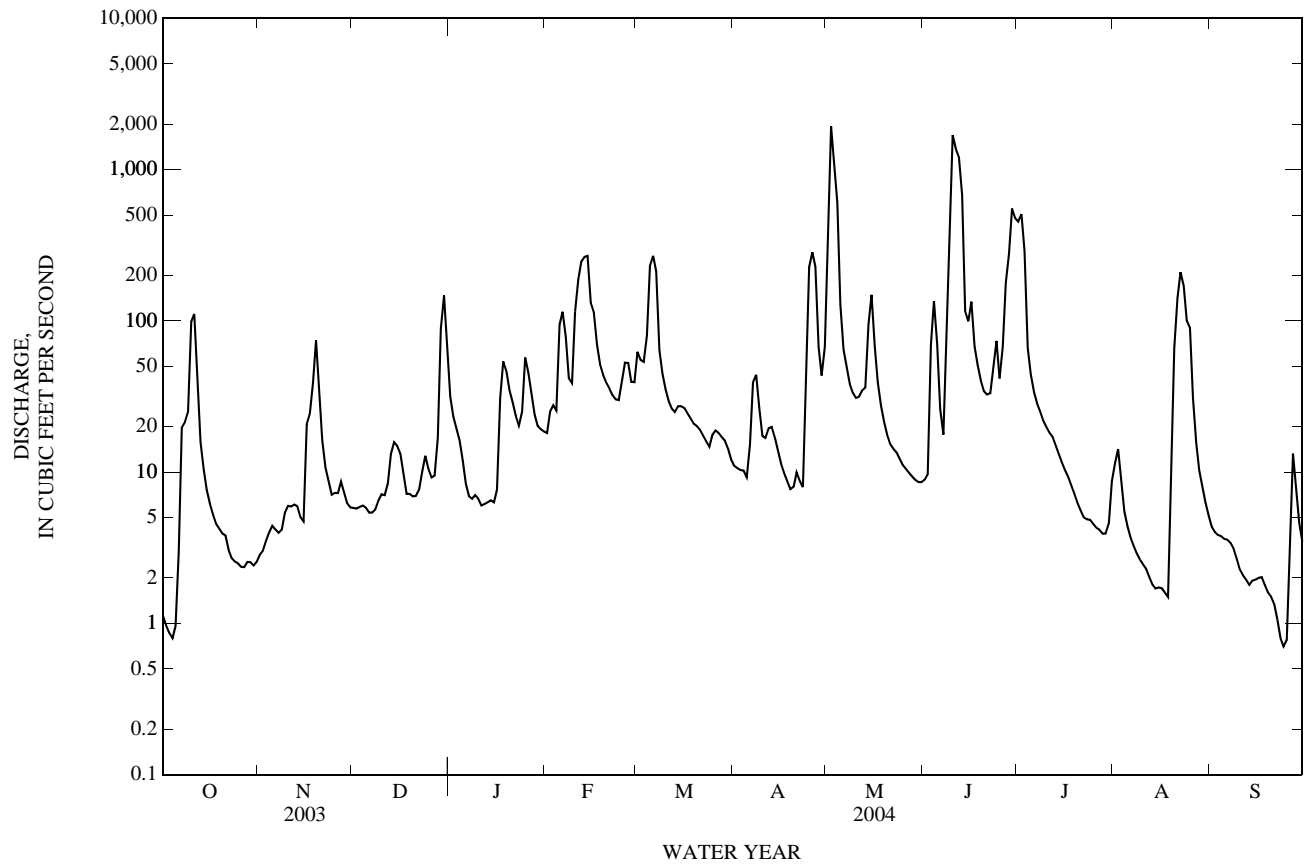
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1962 - 2004

ANNUAL TOTAL	17,746.24	22,956.47	
ANNUAL MEAN	48.6	62.7	75.6
HIGHEST ANNUAL MEAN			168
LOWEST ANNUAL MEAN			4.52
HIGHEST DAILY MEAN	2,870	Feb 22	11,500
LOWEST DAILY MEAN	0.80	Jul 22	0.00
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 25	0.00
MAXIMUM PEAK FLOW			24,000
MAXIMUM PEAK STAGE			15.69
ANNUAL RUNOFF (AC-FT)	35,200		54,800
ANNUAL RUNOFF (CFSM)	0.324		0.504
ANNUAL RUNOFF (INCHES)	4.40		6.85
10 PERCENT EXCEEDS	75		132
50 PERCENT EXCEEDS	8.6		12
90 PERCENT EXCEEDS	1.8		0.09

08065200 Upper Keechi Creek near Oakwood, TX—Continued



08065330 Houston County Lake near Crockett, TX

LOCATION.--Lat 31°24'24", long 95°36'06", Houston County, Hydrologic Unit 12030201, at Houston County Water Control and Improvement District No. 1 pump station, on Little Elkhart Creek, 10 miles northwest of Crockett.

DRAINAGE AREA.--49.0 mi².

PERIOD OF RECORD.--May 1999 to Sept. 2002 (mean daily contents). Oct. 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Interruption in the record was due to malfunction of the instrument. The lake is formed by a rolled earthfill dam 1,250 ft long, including a 500-ft uncontrolled spillway. Deliberate impoundment began in Nov. 1966. The uncontrolled spillway is an excavated channel cut through natural ground and located at the right end of the dam. The low-flow outlet consists of an 18-inch concrete pressure pipe through the dam with valve on the upstream side. Water is used for municipal and industrial purposes in the area. There are no known diversions. The dam is owned by the Houston County WC&ID No. 1. In 2000, levels were used to determine elevations from NGVD of 1929. The reference elevation was found to differ from the TWDB published value by -0.60 ft. Data regarding the dam use the datum from TWDB Report 126 and are given in the following table:

	Elevation (feet)
Top of dam	277.0
Crest of uncontrolled spillway	265.0
Lowest gated outlet	234.0

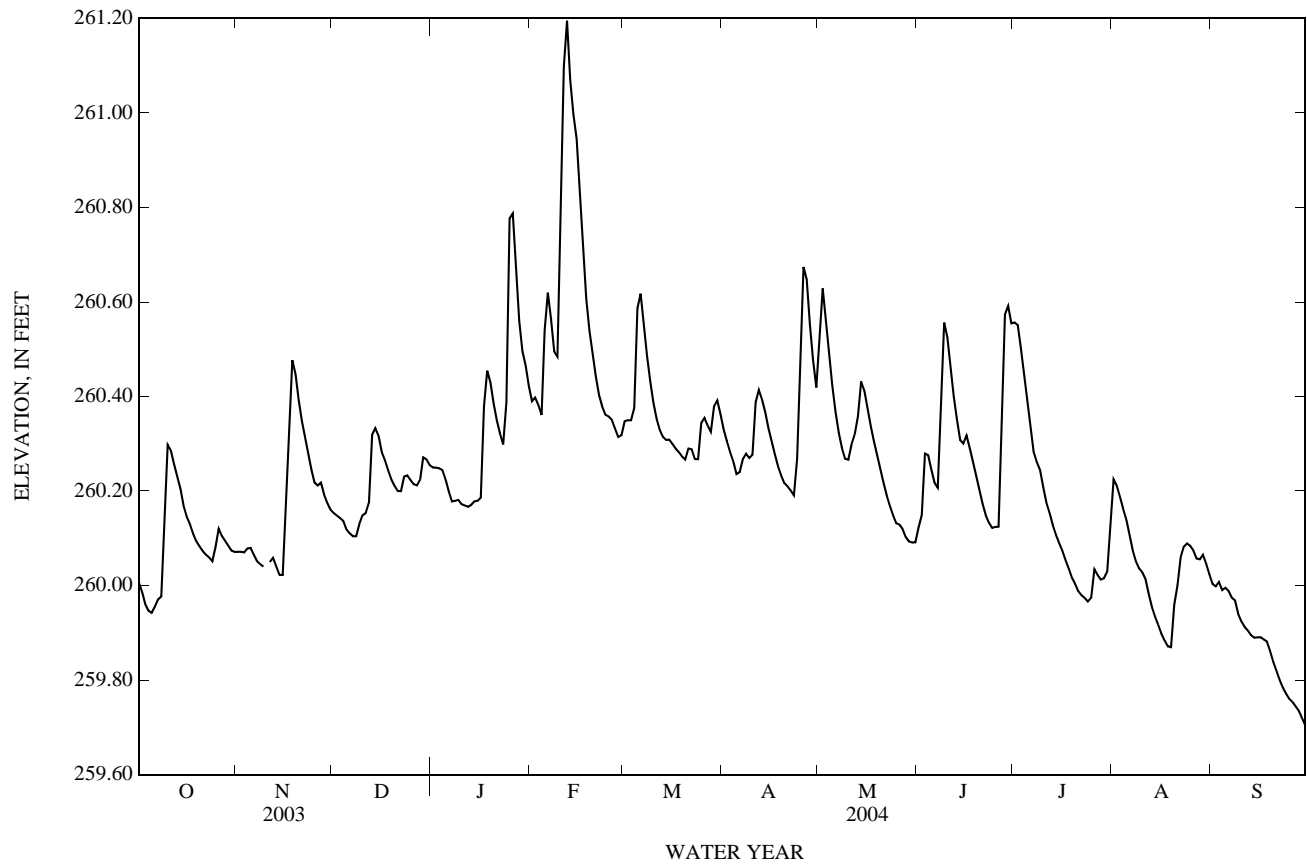
EXTREMES FOR PERIOD OF RECORD.--1999 to 2002: Maximum contents, 23,450 acre-ft, June 8, 2001; minimum contents, 15,540 acre-ft, Oct. 15, 2000; 1999 to current year: Maximum elevation, 264.87 ft., June 8, 2001; minimum elevation, 258.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 261.22 ft, Feb. 12; minimum elevation, 259.70 ft, Sept. 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260.01	260.07	260.15	260.25	260.39	260.35	260.33	260.52	260.12	260.56	260.22	260.00
2	259.99	260.07	260.15	260.25	260.40	260.35	260.31	260.63	260.15	260.55	260.21	260.00
3	259.96	260.07	260.14	260.25	260.38	260.35	260.28	260.56	260.28	260.50	260.19	260.01
4	259.95	260.08	260.14	260.24	260.36	260.38	260.26	260.49	260.28	260.44	260.16	259.99
5	259.94	260.08	260.12	260.22	260.54	260.59	260.24	260.42	260.25	260.38	260.14	260.00
6	259.96	260.07	260.11	260.20	260.62	260.62	260.24	260.37	260.22	260.33	260.11	259.99
7	259.97	260.05	260.10	260.18	260.56	260.55	260.27	260.32	260.21	260.28	260.07	259.97
8	259.98	260.05	260.10	260.18	260.50	260.49	260.28	260.29	260.38	260.26	260.05	259.97
9	260.13	260.04	260.13	260.18	260.48	260.43	260.27	260.27	260.56	260.25	260.04	259.94
10	260.30	---	260.15	260.17	260.90	260.39	260.28	260.27	260.53	260.21	260.03	259.92
11	260.29	260.05	260.15	260.17	261.10	260.35	260.39	260.30	260.46	260.18	260.01	259.91
12	260.26	260.06	260.18	260.17	261.19	260.33	260.41	260.32	260.40	260.15	259.98	259.90
13	260.23	260.04	260.32	260.17	261.07	260.31	260.39	260.36	260.35	260.13	259.96	259.90
14	260.20	260.02	260.33	260.18	261.00	260.31	260.37	260.43	260.31	260.11	259.93	259.89
15	260.17	260.02	260.32	260.18	260.95	260.31	260.33	260.41	260.30	260.09	259.92	259.89
16	260.15	260.20	260.28	260.19	260.82	260.30	260.30	260.37	260.32	260.07	259.90	259.89
17	260.13	260.34	260.27	260.38	260.70	260.29	260.28	260.34	260.29	260.05	259.88	259.89
18	260.11	260.48	260.24	260.45	260.61	260.28	260.25	260.31	260.26	260.04	259.87	259.88
19	260.09	260.45	260.22	260.43	260.54	260.27	260.23	260.28	260.23	260.02	259.87	259.86
20	260.08	260.39	260.21	260.39	260.49	260.27	260.22	260.25	260.20	260.00	259.96	259.84
21	260.07	260.35	260.20	260.35	260.44	260.29	260.21	260.22	260.17	259.99	260.00	259.82
22	260.07	260.31	260.20	260.32	260.40	260.29	260.20	260.19	260.15	259.98	260.06	259.80
23	260.06	260.28	260.23	260.30	260.38	260.27	260.19	260.17	260.13	259.97	260.08	259.78
24	260.05	260.25	260.23	260.39	260.36	260.27	260.27	260.15	260.12	259.97	260.09	259.77
25	260.08	260.22	260.22	260.78	260.36	260.34	260.45	260.13	260.12	259.97	260.08	259.76
26	260.12	260.21	260.21	260.79	260.35	260.35	260.67	260.13	260.12	260.03	260.07	259.75
27	260.10	260.22	260.21	260.66	260.33	260.34	260.65	260.12	260.33	260.02	260.06	259.74
28	260.09	260.19	260.22	260.56	260.31	260.33	260.55	260.10	260.57	260.01	260.06	259.74
29	260.08	260.17	260.27	260.50	260.32	260.38	260.48	260.09	260.59	260.02	260.07	259.72
30	260.07	260.16	260.27	260.47	---	260.39	260.42	260.09	260.56	260.03	260.05	259.70
31	260.07	---	260.25	260.42	---	260.36	---	260.09	---	260.13	260.02	---
MEAN	260.09	---	260.20	260.33	260.58	260.36	260.33	260.29	260.30	260.15	260.04	259.87
MAX	260.30	---	260.33	260.79	261.19	260.62	260.67	260.63	260.59	260.56	260.22	260.01
MIN	259.94	---	260.10	260.17	260.31	260.27	260.19	260.09	260.12	259.97	259.87	259.70

08065330 Houston County Lake near Crockett, TX—Continued



08065350 Trinity River near Crockett, TX

LOCATION.--Lat 31°20'18", long 95°39'22", Houston County, Hydrologic Unit 12030201, on left bank at an abandoned bridge abutment near left end of an abandoned lock and dam, 1,000 ft upstream from State Highway 7, 6.9 mi downstream from Upper Keechi Creek, 11.9 mi west of Crockett, and at mile 265.4.

DRAINAGE AREA.--13,911 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan. 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 141.15 ft above NGVD of 1929. Prior to Oct. 13, 1983, water-stage recorder at site 1,000 ft downstream at datum 4.56 ft lower. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since installation of gage in water year 1964, at least 10% of contributing drainage area has been regulated. There are many diversions above station for irrigation, municipal, and industrial uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 56.1 ft, Apr. 30 or May 1, 1942, at former site and datum, from information by Texas Department of Transportation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	1,110	1,400	1,880	1,550	10,900	1,710	18,600	4,890	18,300	7,930	4,680
2	990	1,090	1,370	1,940	1,640	7,750	1,720	22,100	3,910	19,900	11,100	4,310
3	972	1,050	1,330	1,710	1,620	5,360	1,550	21,800	2,550	20,300	12,900	3,120
4	951	1,040	1,290	1,580	1,530	6,180	1,520	22,000	2,200	20,400	14,100	2,510
5	940	1,050	1,300	1,460	2,530	9,070	1,480	22,600	4,140	20,500	15,000	2,190
6	1,360	1,070	1,350	1,370	4,900	8,760	1,440	23,100	7,280	20,500	15,800	1,920
7	1,580	1,090	1,350	1,330	7,130	8,450	1,630	24,000	8,830	20,400	16,600	1,770
8	1,770	1,130	1,360	1,350	8,640	10,500	1,980	24,700	8,370	20,600	17,300	1,660
9	2,790	1,110	1,370	1,370	7,890	10,900	2,180	24,800	8,110	20,700	17,800	2,040
10	3,700	1,550	1,360	1,340	7,560	8,400	2,440	23,800	9,020	20,500	17,700	2,940
11	3,320	3,810	1,340	1,300	7,200	4,930	2,290	19,200	12,600	18,900	15,400	2,540
12	3,360	4,340	1,370	1,270	8,300	3,370	2,000	11,700	15,900	14,800	10,100	1,870
13	3,660	3,660	1,520	1,250	6,480	2,890	1,780	8,130	18,100	10,300	6,110	1,620
14	3,330	2,530	1,560	1,240	6,890	2,820	1,630	8,710	19,000	8,260	4,790	1,400
15	3,020	1,780	1,610	1,250	9,190	2,780	1,600	8,560	19,700	7,550	4,140	1,310
16	2,700	1,760	3,090	1,280	7,770	3,000	1,570	7,550	20,500	6,820	3,660	1,300
17	2,210	1,830	3,530	1,520	5,440	3,850	1,610	5,200	20,200	5,810	2,990	1,290
18	2,490	2,040	2,650	1,770	4,030	3,710	1,480	3,920	20,000	4,710	2,370	1,380
19	1,960	1,860	1,960	3,050	3,250	2,700	1,450	3,850	20,200	3,990	2,150	1,570
20	1,300	1,920	1,690	7,860	2,770	2,110	1,440	4,200	19,800	2,780	2,390	1,470
21	1,140	4,120	1,580	10,700	2,500	1,900	1,320	3,600	19,300	2,090	2,860	1,340
22	1,130	4,420	1,350	11,600	2,050	1,810	1,300	2,110	18,800	1,950	5,180	1,270
23	1,120	3,010	1,370	9,220	1,770	1,850	1,280	1,680	18,500	1,860	8,890	1,230
24	1,110	1,960	1,350	4,820	1,690	1,750	1,490	1,570	18,100	1,780	10,800	1,220
25	1,130	1,640	1,350	5,310	1,620	1,680	2,880	1,460	17,300	1,770	9,200	1,220
26	1,140	1,540	1,360	3,740	1,900	1,670	6,900	1,400	15,800	1,700	6,080	1,220
27	1,120	1,540	1,360	1,990	4,370	1,570	11,500	1,380	14,900	1,540	4,440	1,180
28	1,080	1,610	1,360	1,900	8,230	1,510	14,700	1,370	15,400	1,390	3,420	1,110
29	1,080	1,520	1,480	2,050	10,700	1,600	16,400	1,340	16,000	1,320	2,670	1,060
30	1,110	1,420	1,720	1,790	---	1,680	17,200	1,320	16,600	1,350	2,500	1,010
31	1,120	---	1,720	1,600	---	1,500	---	2,700	---	2,400	2,960	---
TOTAL	55,693	59,600	49,800	91,840	141,140	136,950	109,470	328,450	416,000	305,170	259,330	54,750
MEAN	1,797	1,987	1,606	2,963	4,867	4,418	3,649	10,600	13,870	9,844	8,365	1,825
MAX	3,700	4,420	3,530	11,600	10,700	10,900	17,200	24,800	20,500	20,700	17,800	4,680
MIN	940	1,040	1,290	1,240	1,530	1,500	1,280	1,320	2,200	1,320	2,150	1,010
AC-FT	110,500	118,200	98,780	182,200	280,000	271,600	217,100	651,500	825,100	605,300	514,400	108,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	3,144	5,415	7,422	6,449	8,130	10,290	8,806	12,560	9,295	3,428	1,936	1,813
MAX	16,840	26,110	35,440	33,620	30,490	39,700	25,960	62,100	29,570	15,030	8,365	6,932
(WY)	(1974)	(1975)	(1992)	(1992)	(1992)	(2001)	(1977)	(1990)	(1989)	(1989)	(2004)	(1974)
MIN	548	619	719	514	670	730	931	939	822	374	413	513
(WY)	(1979)	(1967)	(1967)	(1964)	(1967)	(1967)	(1972)	(1971)	(1971)	(1964)	(1967)	(1972)

SUMMARY STATISTICS

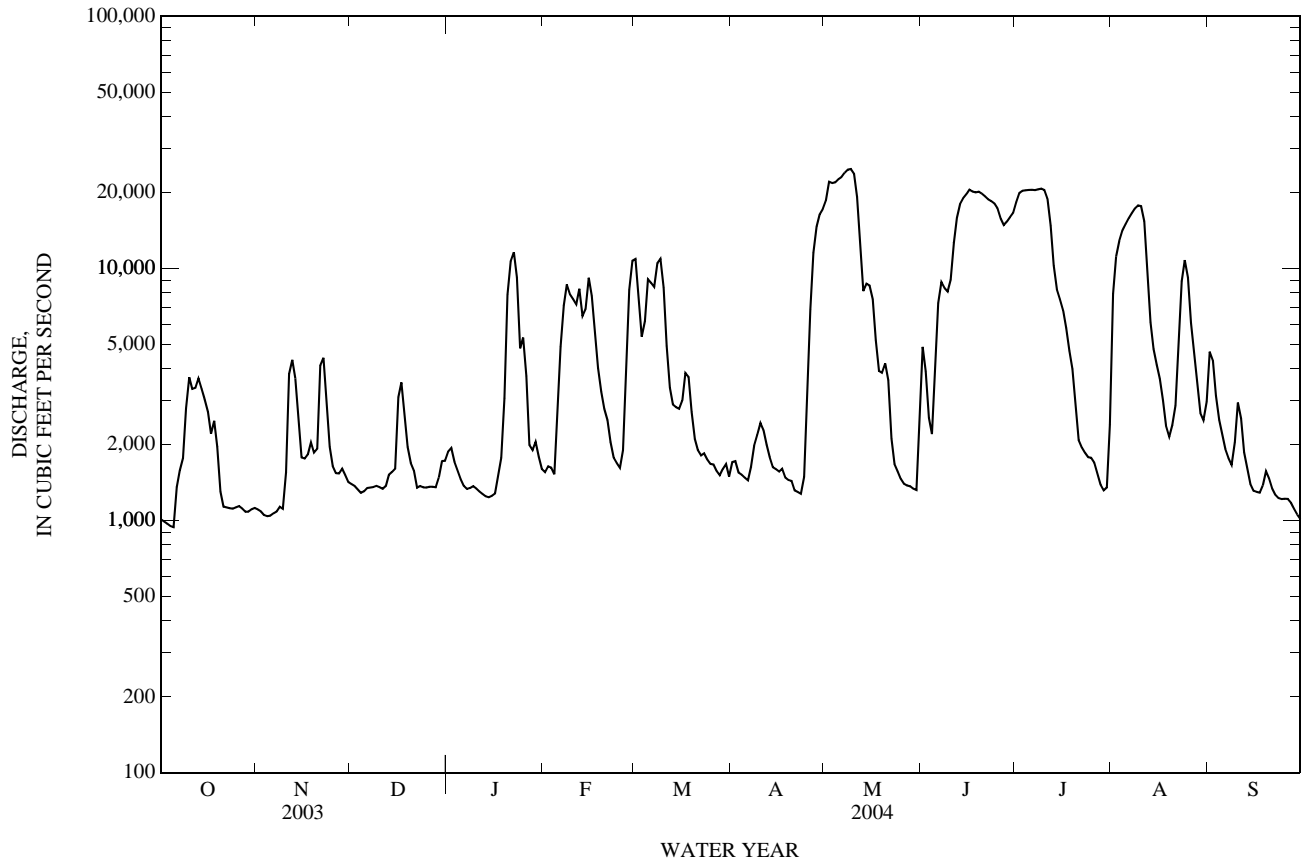
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004

ANNUAL TOTAL	1,391,599	2,008,193	
ANNUAL MEAN	3,813	5,487	6,658
HIGHEST ANNUAL MEAN			16,810
LOWEST ANNUAL MEAN			1,352
HIGHEST DAILY MEAN	28,500	Feb 24	24,800
LOWEST DAILY MEAN	738	Aug 24	940
ANNUAL SEVEN-DAY MINIMUM	833	Aug 22	1,070
MAXIMUM PEAK FLOW			24,900
MAXIMUM PEAK STAGE			29.93
ANNUAL RUNOFF (AC-FT)	2,760,000	3,983,000	4,823,000
10 PERCENT EXCEEDS	8,240	17,400	18,900
50 PERCENT EXCEEDS	1,810	2,200	2,440
90 PERCENT EXCEEDS	1,040	1,260	780

08065350 Trinity River near Crockett, TX—Continued



08065350 Trinity River near Crockett, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Feb. 1964 to current year.

BIOCHEMICAL DATA: Feb. 1968 to current year.

PESTICIDE DATA: Nov. 1971 to July 1981. SEDIMENT DATA: Nov. 1972 to Sept. 1977.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Feb. 1964 to current year.

pH: Mar. 1975 to current year.

WATER TEMPERATURE: Feb. 1964 to Sept. 1971, Mar. 1975 to current year.

DISSOLVED OXYGEN: Mar. 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1972 to Sept. 1977.

INSTRUMENTATION.--Water-quality monitor since Mar. 1975.

REMARKS.--Record for water temperature good. Record for pH fair. Records for specific conductance and dissolved oxygen poor. Interruptions in the record were caused by malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous years using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,370 microsiemens/cm, Sept. 22, 1964; minimum, 89 microsiemens/cm, June 8, 2001.

pH: Maximum, 9.6 standard units, Aug. 11-12, 1981; minimum, 5.9 standard units, Aug. 12, 1977.

WATER TEMPERATURE: Maximum, 37.0°C, July 4, 1970, Sept. 4, 1978; minimum, 1.0°C, Jan. 17, 1978, Nov. 24, 1984.

DISSOLVED OXYGEN: Maximum, 19.3 mg/L, Feb. 10, 1981; minimum, 0.0 mg/L, Apr. 20, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 780 microsiemens/cm, Nov. 12; minimum, 179 microsiemens/cm, May 4.

pH: Maximum, 8.7 standard units, Oct. 6; minimum, 7.0 standard units, Feb. 12.

WATER TEMPERATURE: Maximum, 31.8°C, July 25; minimum, 6.8°C, Feb. 15.

DISSOLVED OXYGEN: Maximum, 11.9 mg/L, Feb. 14, 15; minimum, 0.9 mg/L, Jan. 25.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarb hardness, wat fltrd, mg/L as CaCO ₃ (00904)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 17...	1448	1,730	765	8.2	87	7.6	429	18.1	130	43	43.6	5.04	6.53
MAR 15...	1215	2,770	767	8.8	88	6.8	535	15.5	170	63	60.4	5.71	5.44
JUN 08...	1450	8,050	762	5.6	70	7.5	370	26.2	110	28	39.7	3.60	4.82
JUL 26...	1315	1,680	760	5.6	75	8.0	562	30.3	160	41	56.8	5.28	7.16
AUG 26...	0945	6,230	760	7.5	100	7.1	358	30.0	110	24	38.8	3.37	4.85
SEP 13...	1030	1,640	762	7.2	91	7.7	613	27.3	160	49	56.0	5.17	7.38

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltr inc tit field, mg/L as CaCO ₃ (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue, water, fltrd, sum of constituents (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrate, water, fltrd, mg/L as N (00618)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)
NOV 17...	1	36.4	87	36.7	.4	8.3	52.0	250	.52	E.02n	1.84	1.85	.014
MAR 15...	1	39.7	111	37.7	.5	8.2	78.3	316	.48	<.04	2.81	2.82	.014
JUN 08...	.9	22.7	86	20.9	.4	5.7	40.8	197	.53	<.04	1.41	1.46	.043
JUL 26...	2	46.6	123	49.6	.7	8.5	56.7	322	.78	.04	3.75	3.77	.015
AUG 26...	.8	19.3	87	19.0	.3	6.8	35.6	185	.36	<.04	.90	.91	.013
SEP 13...	2	50.3	113	55.8	1.0	9.0	69.2	350	.49	<.04	6.09	6.10d	.011

08065350 Trinity River near Crockett, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
NOV 17...	--	.831	.27	.30	2.7
MAR 15...	--	.895	.29	.32	1.8
JUN 08...	--	.377	.12	.15	--
JUL 26...	.74	.868	.28	.30	2.8
AUG 26...	--	.310	.10	.12	--
SEP 13...	--	1.69	.55	.57	3.5

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

n -- Below the LRL and above the LT-MDL

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	477	439	457	686	664	674	583	546	564	---	---	---
2	506	477	491	695	686	692	613	583	600	---	---	---
3	551	506	517	697	687	692	648	613	631	---	---	---
4	---	---	---	697	688	694	676	648	663	---	---	---
5	---	---	---	716	697	707	685	676	680	---	---	---
6	629	596	612	732	716	725	685	675	679	572	568	570
7	636	588	629	744	732	740	686	679	683	586	572	580
8	608	567	593	747	742	745	688	685	687	589	585	587
9	623	532	588	748	738	743	688	682	685	586	576	582
10	584	504	552	741	738	740	684	678	681	596	577	589
11	555	506	522	763	741	750	684	673	676	594	573	580
12	571	513	553	780	727	760	691	670	685	605	581	594
13	516	481	508	727	542	621	670	644	654	614	605	611
14	500	450	471	542	512	519	653	631	642	631	613	625
15	524	486	506	530	513	519	655	634	639	640	630	634
16	505	483	494	530	433	486	690	655	671	650	640	645
17	520	501	513	489	420	470	690	292	533	642	441	530
18	519	501	513	445	399	422	292	255	264	467	363	407
19	545	515	533	486	445	467	259	192	221	653	467	585
20	---	---	---	525	486	510	---	---	---	731	359	626
21	---	---	---	600	525	553	---	---	---	374	312	339
22	---	---	---	673	600	646	---	---	---	392	374	382
23	---	---	---	651	502	545	---	---	---	418	392	405
24	603	545	565	503	482	488	---	---	---	437	382	421
25	629	589	615	487	483	486	---	---	---	462	337	378
26	589	556	566	485	481	483	---	---	---	462	233	299
27	576	566	569	487	483	484	---	---	---	409	332	376
28	588	575	580	501	487	494	---	---	---	470	409	440
29	649	588	616	519	501	509	---	---	---	538	470	503
30	669	649	662	546	519	533	---	---	---	563	538	552
31	671	663	667	---	---	---	---	---	---	583	563	573
MONTH				780	399	597						

08065350 Trinity River near Crockett, TX—Continued

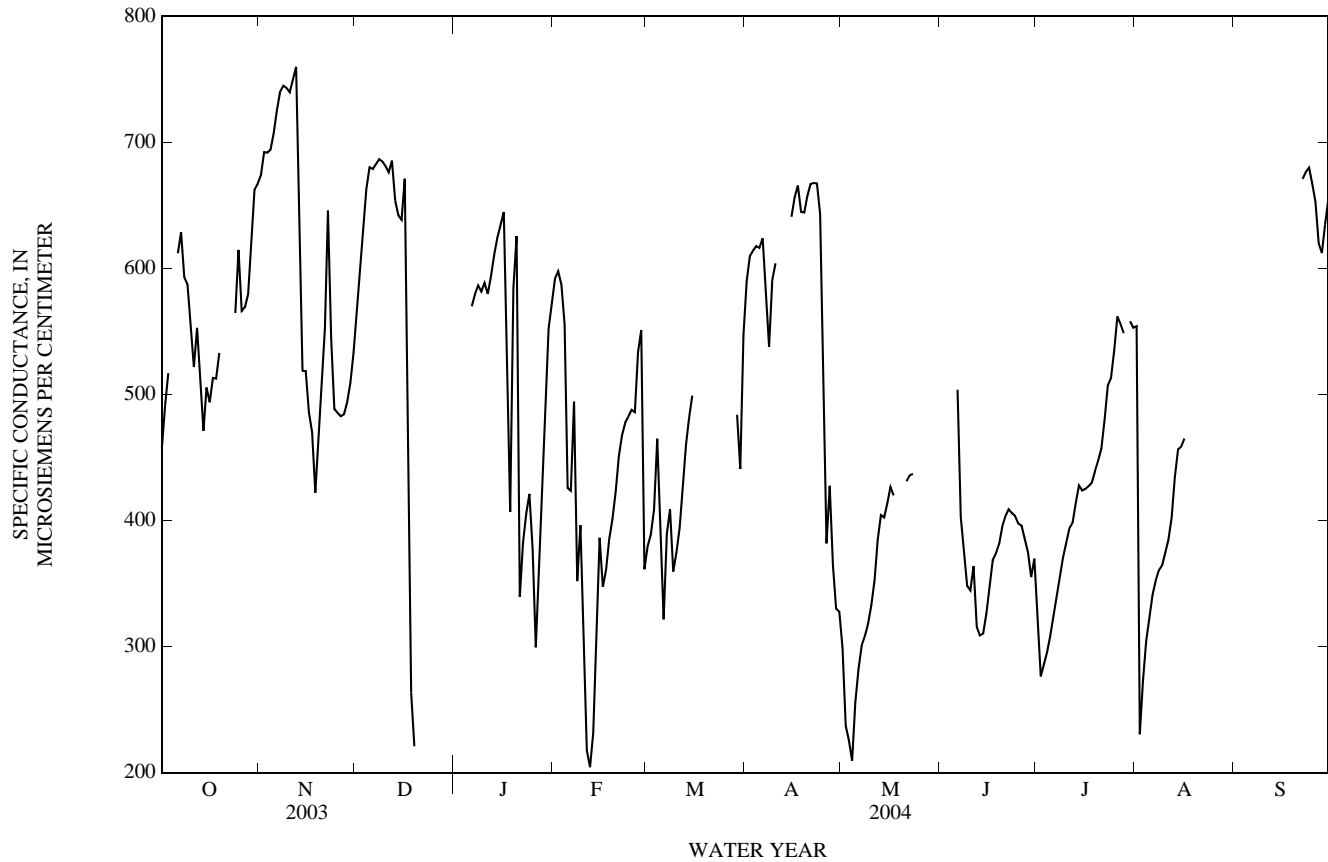
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	601	582	592	384	357	380	608	568	590	322	273	299
2	602	593	598	398	380	389	613	606	610	273	220	237
3	602	573	587	426	398	409	618	610	614	256	181	226
4	573	541	556	497	426	465	621	613	618	244	179	209
5	541	362	426	494	318	399	619	611	616	269	243	256
6	517	379	423	357	295	322	630	604	624	294	269	282
7	561	373	494	408	357	389	609	552	586	305	294	301
8	449	309	352	446	370	409	577	507	538	311	305	308
9	451	336	396	374	338	360	602	576	591	324	311	318
10	336	237	284	381	371	375	613	598	604	345	324	333
11	237	209	217	407	381	394	---	---	---	368	344	352
12	214	187	204	445	407	426	---	---	---	399	368	385
13	291	189	232	474	445	461	---	---	---	411	386	404
14	377	291	327	488	474	481	---	---	---	412	386	402
15	400	361	386	509	488	499	648	633	641	429	403	414
16	361	340	347	---	---	---	679	644	657	430	424	427
17	365	350	361	---	---	---	679	643	666	429	403	420
18	398	365	385	---	---	---	659	628	645	---	---	---
19	413	396	401	---	---	---	655	629	644	---	---	---
20	435	413	422	---	---	---	671	643	657	---	---	---
21	463	435	451	---	---	---	683	649	667	440	420	431
22	476	451	468	---	---	---	671	663	668	442	428	436
23	482	467	478	---	---	---	673	661	668	439	436	437
24	489	477	482	---	---	---	669	595	643	---	---	---
25	490	483	488	---	---	---	595	379	517	---	---	---
26	497	477	486	---	---	---	417	345	382	---	---	---
27	605	497	534	---	---	---	446	392	428	---	---	---
28	649	430	551	---	---	---	399	322	365	---	---	---
29	430	332	361	522	433	484	343	320	330	---	---	---
30	---	---	---	502	379	441	330	322	328	---	---	---
31	---	---	---	577	502	547	---	---	---	---	---	---
MONTH	649	187	424					0				
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	372	282	316	651	285	554	---	---	---
2	---	---	---	282	274	276	285	218	230	---	---	---
3	---	---	---	292	278	286	294	248	273	---	---	---
4	---	---	---	301	292	295	313	294	304	---	---	---
5	---	---	---	314	301	308	331	313	322	---	---	---
6	561	411	504	332	314	324	349	331	341	---	---	---
7	458	372	403	346	332	339	358	348	353	---	---	---
8	389	346	377	363	346	356	364	358	361	---	---	---
9	358	334	348	377	363	371	369	362	365	---	---	---
10	355	337	345	388	376	382	381	369	375	---	---	---
11	375	348	364	400	387	394	391	381	385	---	---	---
12	362	299	316	401	396	398	417	390	402	---	---	---
13	311	307	309	423	401	414	445	417	434	---	---	---
14	316	308	310	432	423	428	460	444	456	---	---	---
15	337	316	326	426	421	424	462	455	458	---	---	---
16	359	337	348	429	422	425	472	458	465	---	---	---
17	374	359	369	429	426	427	---	---	---	---	---	---
18	375	373	374	434	423	430	---	---	---	---	---	---
19	390	374	381	444	424	439	---	---	---	---	---	---
20	400	390	395	455	442	448	---	---	---	---	---	---
21	407	400	404	460	454	457	---	---	---	---	---	---
22	410	407	409	497	454	480	---	---	---	675	665	671
23	409	399	406	515	497	507	---	---	---	679	674	676
24	406	399	404	524	509	513	---	---	---	683	678	680
25	403	394	398	554	521	535	---	---	---	680	643	667
26	398	394	396	563	546	562	---	---	---	663	640	653
27	395	373	386	565	545	556	---	---	---	640	603	620
28	388	351	375	557	541	549	---	---	---	624	604	612
29	373	338	355	---	---	---	---	---	---	646	624	635
30	378	359	370	567	538	558	---	---	---	660	646	655
31	---	---	---	569	499	553	---	---	---	---	---	---
MONTH												
YEAR												

Remarkcodes used in this report:

< -- Less than

08065350 Trinity River near Crockett, TX—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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

TRINITY RIVER BASIN

08065350 Trinity River near Crockett, TX—Continued

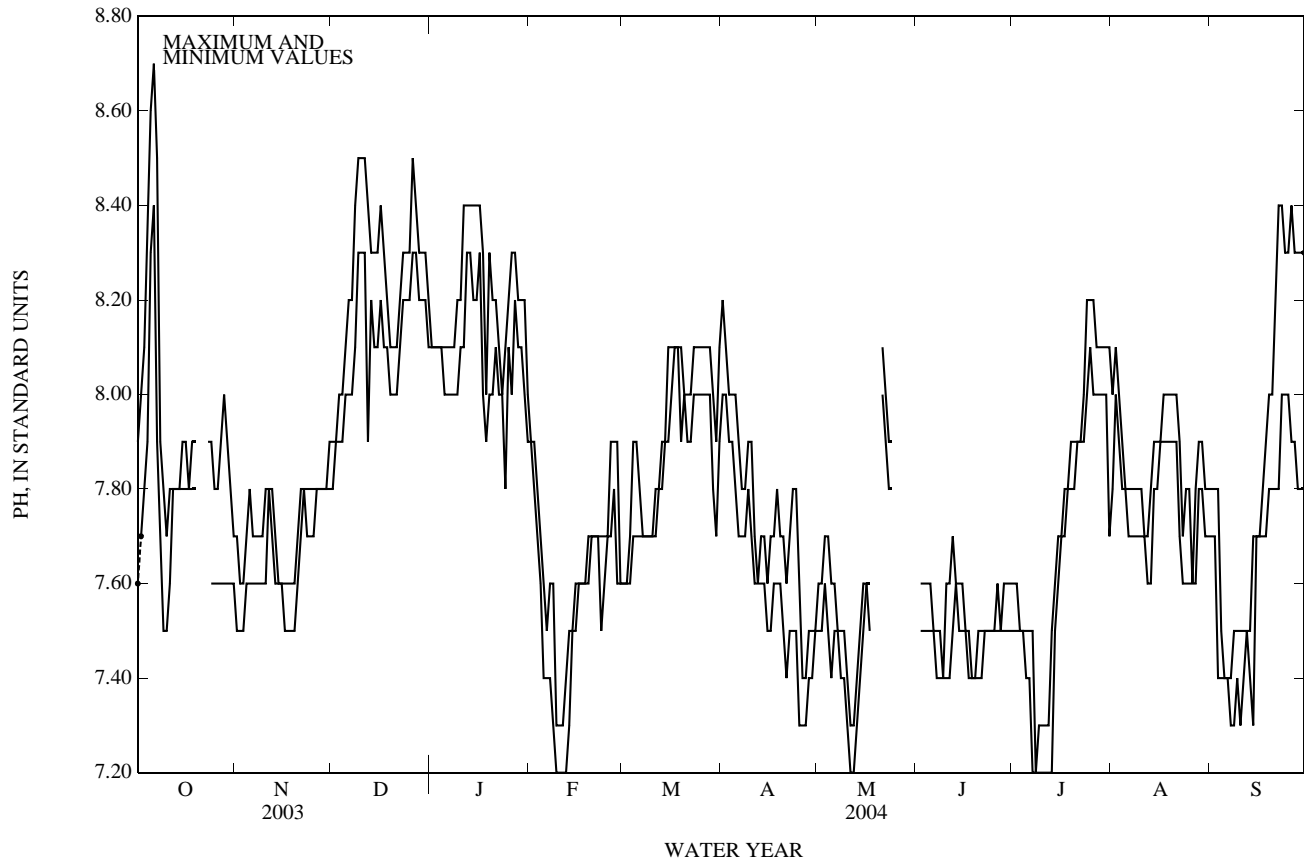
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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

Remarkcodes used in this report:

< -- Less than

08065350 Trinity River near Crockett, TX—Continued


 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	24.5	23.1	23.9	22.1	21.1	21.6	13.7	12.4	13.1	12.1	11.4	11.7
2	24.0	22.9	23.5	22.2	21.5	21.8	13.9	12.9	13.4	13.3	12.1	12.7
3	23.7	22.4	23.0	22.6	21.6	22.1	14.2	13.2	13.6	14.6	13.3	14.0
4	23.6	22.0	22.8	22.7	21.9	22.3	13.9	13.1	13.5	15.3	14.6	14.9
5	23.1	22.5	22.8	22.9	22.0	22.4	13.4	12.2	12.9	14.8	13.1	14.0
6	23.4	22.6	22.9	22.5	20.9	21.6	12.2	11.4	11.8	13.1	11.9	12.4
7	23.6	22.5	22.9	20.9	19.2	20.0	11.8	10.8	11.3	11.9	11.0	11.3
8	23.8	22.7	23.2	19.2	18.2	18.6	12.2	11.0	11.6	11.0	10.6	10.7
9	23.5	22.8	23.2	18.2	17.5	17.8	12.8	12.1	12.4	11.0	10.3	10.6
10	23.1	22.5	22.8	18.2	17.0	17.6	12.1	11.2	11.7	10.7	9.7	10.2
11	23.5	22.4	22.9	18.5	17.8	18.2	11.2	10.5	10.8	10.3	9.2	9.8
12	24.0	23.1	23.5	18.9	18.2	18.5	10.7	10.5	10.6	10.0	9.2	9.7
13	24.1	23.4	23.7	18.8	17.2	17.9	10.6	9.8	10.3	10.5	9.7	10.1
14	24.4	23.6	23.9	17.2	16.6	16.9	10.2	9.3	9.7	11.5	10.4	10.9
15	23.6	22.9	23.3	17.0	16.5	16.8	10.9	9.3	10.1	11.9	11.3	11.6
16	23.2	22.4	22.8	17.7	17.0	17.3	10.9	10.1	10.6	12.7	11.9	12.3
17	23.8	22.8	23.2	18.3	17.6	17.8	10.3	9.7	10.0	14.4	12.7	13.6
18	23.4	22.6	22.9	18.6	17.6	18.2	10.6	10.0	10.2	14.4	12.6	13.7
19	23.1	22.0	22.5	17.6	16.9	17.3	10.2	9.5	9.8	12.6	11.8	12.1
20	---	---	---	17.1	16.1	16.6	9.9	8.9	9.3	14.0	12.2	13.2
21	---	---	---	17.0	16.3	16.6	10.0	8.8	9.4	13.4	12.7	13.1
22	---	---	---	18.4	17.0	17.8	11.0	9.7	10.3	12.7	11.9	12.3
23	---	---	---	18.5	16.7	18.0	11.5	10.6	11.0	11.9	11.2	11.4
24	23.0	21.8	22.5	16.7	14.8	15.8	11.1	10.2	10.6	12.4	11.0	11.3
25	23.0	22.3	22.6	14.8	14.0	14.4	10.7	10.1	10.4	14.4	12.4	13.3
26	22.6	20.8	21.5	14.7	14.1	14.4	11.2	10.2	10.7	14.1	12.2	13.2
27	21.0	19.9	20.4	15.5	14.6	14.9	12.8	11.2	11.9	12.2	10.7	11.4
28	20.4	19.2	19.8	14.7	13.4	14.1	12.9	12.7	12.8	10.7	10.1	10.4
29	20.3	19.2	19.8	13.4	12.6	13.0	12.9	12.0	12.5	10.5	10.1	10.3
30	20.6	19.4	20.0	13.2	12.1	12.7	12.0	11.2	11.6	11.0	10.4	10.7
31	21.5	20.4	21.0	---	---	---	11.5	10.8	11.2	11.0	10.8	10.9
MONTH				22.9	12.1	17.8	14.2	8.8	11.3	15.3	9.2	11.9

TRINITY RIVER BASIN

08065350 Trinity River near Crockett, TX—Continued

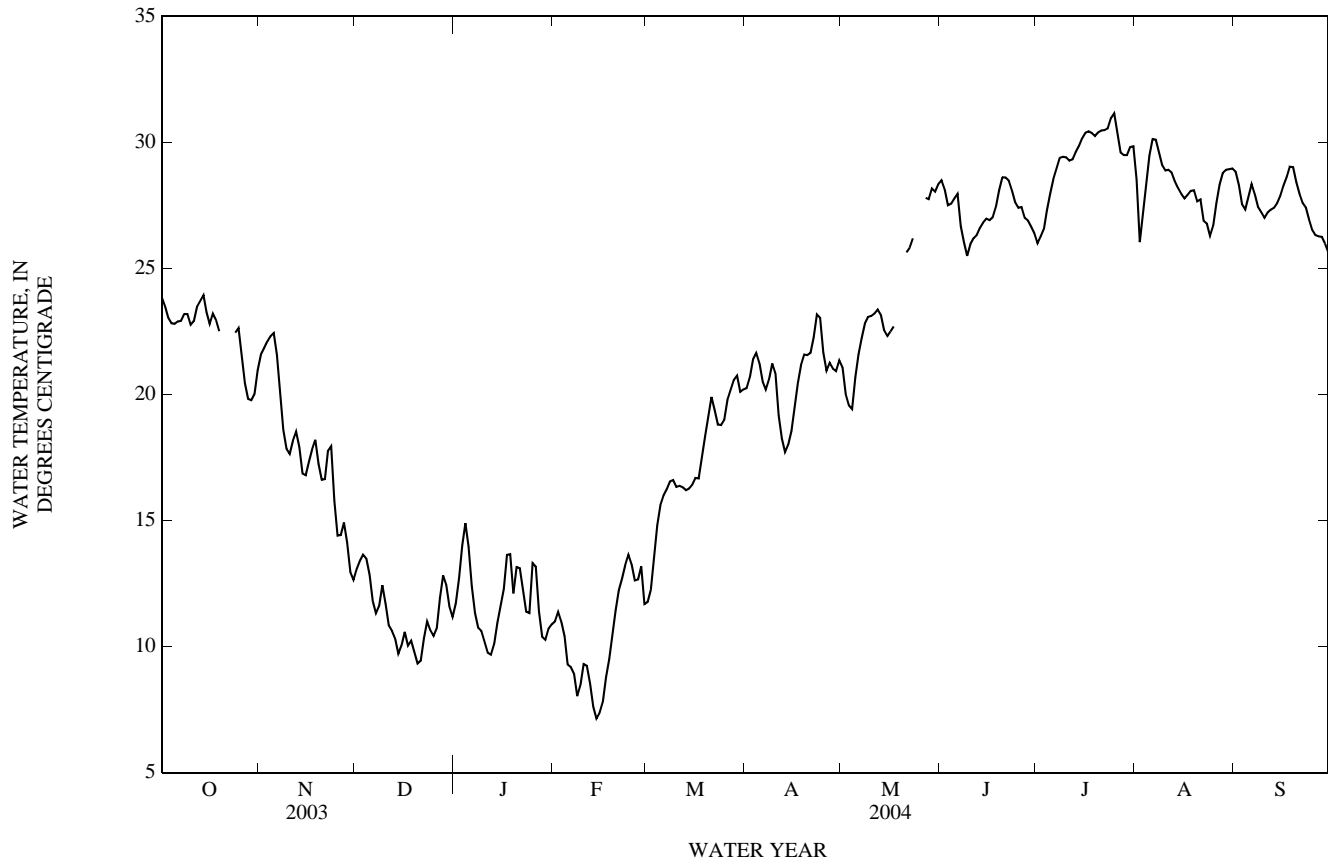
TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.3	10.8	11.0	12.1	11.4	11.8	21.0	19.5	20.2	21.5	20.6	21.1
2	11.8	11.0	11.4	12.6	12.0	12.3	21.3	20.0	20.7	20.6	19.8	20.0
3	11.3	10.7	11.0	14.3	12.6	13.4	22.1	20.8	21.4	19.8	19.2	19.6
4	10.8	10.2	10.4	15.3	14.3	14.8	22.3	21.0	21.6	20.3	18.9	19.4
5	10.2	9.0	9.3	16.2	15.2	15.6	21.9	20.7	21.2	21.4	20.2	20.7
6	9.6	8.8	9.2	16.2	15.6	16.0	21.1	20.2	20.5	22.2	21.2	21.6
7	9.5	8.1	8.9	16.7	15.7	16.2	20.8	19.7	20.2	22.8	21.9	22.2
8	8.6	7.6	8.0	16.8	16.3	16.6	21.4	19.8	20.6	23.1	22.6	22.8
9	9.1	8.2	8.5	17.0	16.3	16.6	22.0	20.5	21.2	23.3	22.9	23.1
10	9.5	9.1	9.3	16.6	16.0	16.3	21.6	19.2	20.8	23.3	22.9	23.1
11	9.5	8.9	9.2	16.7	16.0	16.4	19.5	18.7	19.2	23.3	23.0	23.2
12	8.9	8.2	8.5	16.6	16.2	16.3	18.7	17.8	18.3	23.7	23.0	23.4
13	8.2	7.4	7.6	16.4	16.0	16.2	18.3	17.1	17.7	23.6	22.6	23.2
14	7.4	7.0	7.1	16.5	16.1	16.3	18.9	17.1	18.0	22.7	22.2	22.5
15	8.1	6.8	7.4	16.6	16.2	16.4	19.5	17.6	18.6	22.7	21.9	22.3
16	8.2	7.4	7.8	17.1	16.3	16.7	20.6	18.5	19.5	22.8	22.2	22.5
17	9.3	8.2	8.8	17.0	16.3	16.7	21.4	19.6	20.5	23.4	22.5	22.7
18	10.0	9.0	9.5	18.2	16.8	17.5	22.0	20.4	21.2	---	---	---
19	11.0	9.8	10.4	18.6	18.1	18.3	22.1	21.0	21.6	---	---	---
20	12.0	10.9	11.4	19.8	18.4	19.1	21.9	21.1	21.6	---	---	---
21	12.8	11.8	12.2	20.4	19.5	19.9	22.2	21.2	21.7	26.1	25.3	25.6
22	13.1	12.4	12.7	19.9	19.0	19.4	23.1	21.6	22.3	26.5	25.3	25.8
23	13.6	12.9	13.2	19.2	18.3	18.8	24.0	22.5	23.2	26.9	25.6	26.2
24	13.8	13.5	13.6	18.9	18.7	18.8	23.5	22.5	23.0	---	---	---
25	13.7	12.7	13.3	19.5	18.5	19.0	22.5	20.7	21.7	---	---	---
26	13.1	12.1	12.6	20.2	19.3	19.8	21.4	20.5	20.9	---	---	---
27	13.4	12.1	12.7	20.7	19.7	20.2	21.6	20.8	21.3	28.1	27.5	27.8
28	13.5	12.4	13.2	20.9	20.2	20.6	21.2	20.7	21.0	28.8	26.9	27.7
29	12.4	11.4	11.7	21.5	20.3	20.7	21.2	20.7	20.9	28.8	27.6	28.2
30	---	---	---	20.7	19.3	20.1	21.6	21.1	21.4	28.4	27.6	28.0
31	---	---	---	21.1	19.4	20.2	---	---	---	29.0	27.7	28.3
MONTH	13.8	6.8	10.3	21.5	11.4	17.3	24.0	17.1	20.7			
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.9	28.1	28.5	26.4	25.7	26.0	29.4	26.3	28.5	29.1	28.6	28.8
2	28.6	27.6	28.1	26.6	26.0	26.3	26.6	25.5	26.0	28.8	27.9	28.3
3	28.0	27.1	27.5	26.9	26.3	26.6	28.1	26.5	27.2	27.9	27.3	27.6
4	28.2	27.0	27.6	27.8	26.9	27.3	29.2	27.8	28.4	27.8	27.0	27.3
5	28.4	27.2	27.8	28.4	27.6	28.0	30.0	29.0	29.5	28.6	27.2	27.8
6	28.3	27.4	28.0	29.0	28.2	28.5	30.5	29.8	30.1	29.0	27.8	28.4
7	27.4	26.4	26.7	29.4	28.6	29.0	30.4	29.9	30.1	28.4	27.4	27.9
8	26.4	25.4	26.0	29.8	29.0	29.4	29.9	29.4	29.6	28.2	26.8	27.4
9	25.8	25.2	25.5	29.7	29.2	29.4	29.4	28.8	29.1	27.9	26.6	27.2
10	26.2	25.7	26.0	29.8	29.1	29.4	29.2	28.6	28.9	27.3	26.8	27.0
11	26.7	25.8	26.2	29.6	28.9	29.3	29.3	28.5	28.9	27.8	26.8	27.2
12	26.6	26.0	26.3	29.7	28.9	29.3	29.0	28.5	28.8	27.8	26.9	27.3
13	26.9	26.4	26.6	30.1	29.2	29.6	28.8	28.2	28.5	28.0	26.9	27.4
14	27.1	26.5	26.8	30.3	29.4	29.9	28.5	27.9	28.2	28.3	27.0	27.6
15	27.1	26.8	27.0	30.6	29.7	30.2	28.3	27.6	28.0	28.9	27.1	27.9
16	27.2	26.7	26.9	30.7	30.0	30.4	28.1	27.4	27.8	29.1	27.5	28.3
17	27.3	26.7	27.0	30.8	30.1	30.4	28.5	27.4	27.9	29.5	27.8	28.6
18	28.0	27.0	27.4	30.7	30.0	30.4	28.6	27.6	28.1	29.8	28.3	29.0
19	28.6	27.7	28.1	30.7	29.8	30.3	28.4	27.7	28.1	29.7	28.5	29.0
20	29.0	28.3	28.6	30.9	30.0	30.4	28.1	27.3	27.7	29.1	27.8	28.4
21	28.9	28.3	28.6	31.1	30.0	30.5	28.4	27.3	27.7	28.7	27.3	28.0
22	28.7	28.3	28.5	31.0	30.0	30.5	27.3	26.4	26.9	28.4	26.9	27.6
23	28.3	27.9	28.1	31.3	30.0	30.6	27.1	26.3	26.8	28.1	26.7	27.4
24	27.9	27.4	27.6	31.6	30.4	31.0	26.7	26.0	26.3	27.5	26.6	26.9
25	27.7	27.2	27.4	31.8	30.6	31.2	27.2	26.3	26.7	27.0	26.2	26.5
26	27.6	27.3	27.4	30.9	29.8	30.4	28.2	27.1	27.6	27.1	25.6	26.3
27	27.4	26.8	27.0	30.4	28.9	29.6	28.9	27.9	28.3	26.8	25.5	26.3
28	27.2	26.7	26.9	30.2	28.9	29.5	29.2	28.5	28.8	26.9	25.6	26.3
29	27.0	26.2	26.7	30.0	29.0	29.5	29.4	28.6	28.9	26.6	25.3	26.0
30	26.8	25.9	26.4	30.6	29.2	29.8	29.6	28.4	28.9	26.3	25.0	25.7
31	---	---	---	30.6	29.4	29.8	29.8	28.5	29.0	---	---	---
MONTH	29.0	25.2	27.2	31.8	25.7	29.4	30.5	25.5	28.2	29.8	25.0	27.5
YEAR												

Remarkcodes used in this report:

< -- Less than

08065350 Trinity River near Crockett, TX—Continued



DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.1	6.0	6.5	6.9	6.3	6.5	9.0	7.5	8.3	9.9	9.6	9.7
2	7.6	6.3	7.0	6.6	6.1	6.3	8.1	6.3	7.5	9.7	9.4	9.5
3	7.9	6.9	7.3	6.6	6.0	6.2	8.7	6.3	7.6	9.4	9.0	9.3
4	---	---	---	6.4	5.8	6.1	9.3	7.1	8.1	9.0	8.8	8.9
5	---	---	---	6.3	5.7	5.9	8.3	6.5	7.5	9.4	8.8	9.1
6	---	---	---	6.3	5.7	6.0	7.2	5.5	6.5	9.8	9.4	9.6
7	---	---	---	6.3	5.9	6.1	8.3	6.0	7.2	10.2	9.7	9.9
8	6.8	6.0	6.4	6.4	6.1	6.2	9.5	6.0	7.4	10.5	10.0	10.3
9	6.3	5.8	6.1	6.7	6.3	6.5	7.2	4.6	5.9	10.8	10.3	10.5
10	5.8	5.5	5.7	6.9	6.5	6.7	6.1	4.6	5.4	11.1	10.5	10.8
11	5.6	5.4	5.5	7.0	6.6	6.8	7.8	5.5	6.7	11.6	10.9	11.2
12	5.5	5.3	5.4	6.6	4.5	5.6	8.9	7.5	8.1	11.7	11.2	11.4
13	5.4	5.2	5.3	5.3	3.3	4.2	9.5	8.6	9.1	11.5	11.0	11.2
14	5.6	5.2	5.4	5.7	4.1	4.8	10.6	9.2	9.9	11.3	10.8	11.0
15	5.9	5.6	5.7	6.5	5.2	5.9	10.6	9.4	10	11.0	10.4	10.7
16	6.1	5.8	5.9	6.0	5.5	5.8	11.0	10.1	10.6	10.6	9.7	10.2
17	6.0	5.8	5.9	6.6	6.0	6.2	10.7	9.9	10.4	9.7	8.0	8.9
18	6.2	5.8	6.0	6.6	5.6	6.1	10.0	9.5	9.7	8.7	7.8	8.0
19	6.4	6.1	6.2	6.9	6.4	6.7	9.6	9.2	9.4	9.7	8.7	9.2
20	6.4	6.1	6.2	7.4	6.8	7.1	10.0	9.5	9.8	9.2	6.3	7.6
21	---	---	---	7.7	7.3	7.5	10.3	10.0	10.2	7.2	6.3	6.8
22	---	---	---	7.5	5.3	6.3	10.4	10.1	10.2	7.2	1.6	4.8
23	---	---	---	5.8	4.1	5.2	10.3	10.1	10.2	3.5	1.0	1.7
24	7.9	6.7	7.1	6.2	4.1	4.8	10.5	10.1	10.3	7.5	1.8	4.8
25	7.0	6.3	6.6	6.6	4.0	5.1	10.9	10.3	10.6	3.9	0.9	2.0
26	7.0	6.2	6.6	7.1	5.0	5.9	11.3	10.7	10.9	9.0	3.0	7.6
27	7.7	6.5	7.0	7.4	6.0	6.8	10.8	9.9	10.4	9.8	9.0	9.5
28	8.1	7.0	7.4	8.0	6.9	7.6	9.9	9.5	9.6	10.2	9.8	10.0
29	7.8	7.0	7.3	8.4	7.4	8.0	9.9	9.4	9.7	10.3	10.2	10.2
30	7.3	6.6	7.0	9.2	8.1	8.8	10.1	9.9	10.0	10.2	10.0	10.1
31	7.1	6.4	6.6	---	---	---	10.2	9.9	10.1	10.1	9.9	10
MONTH				9.2	3.3	6.3	11.3	4.6	8.9	11.7	0.9	8.9

TRINITY RIVER BASIN

08065350 Trinity River near Crockett, TX—Continued

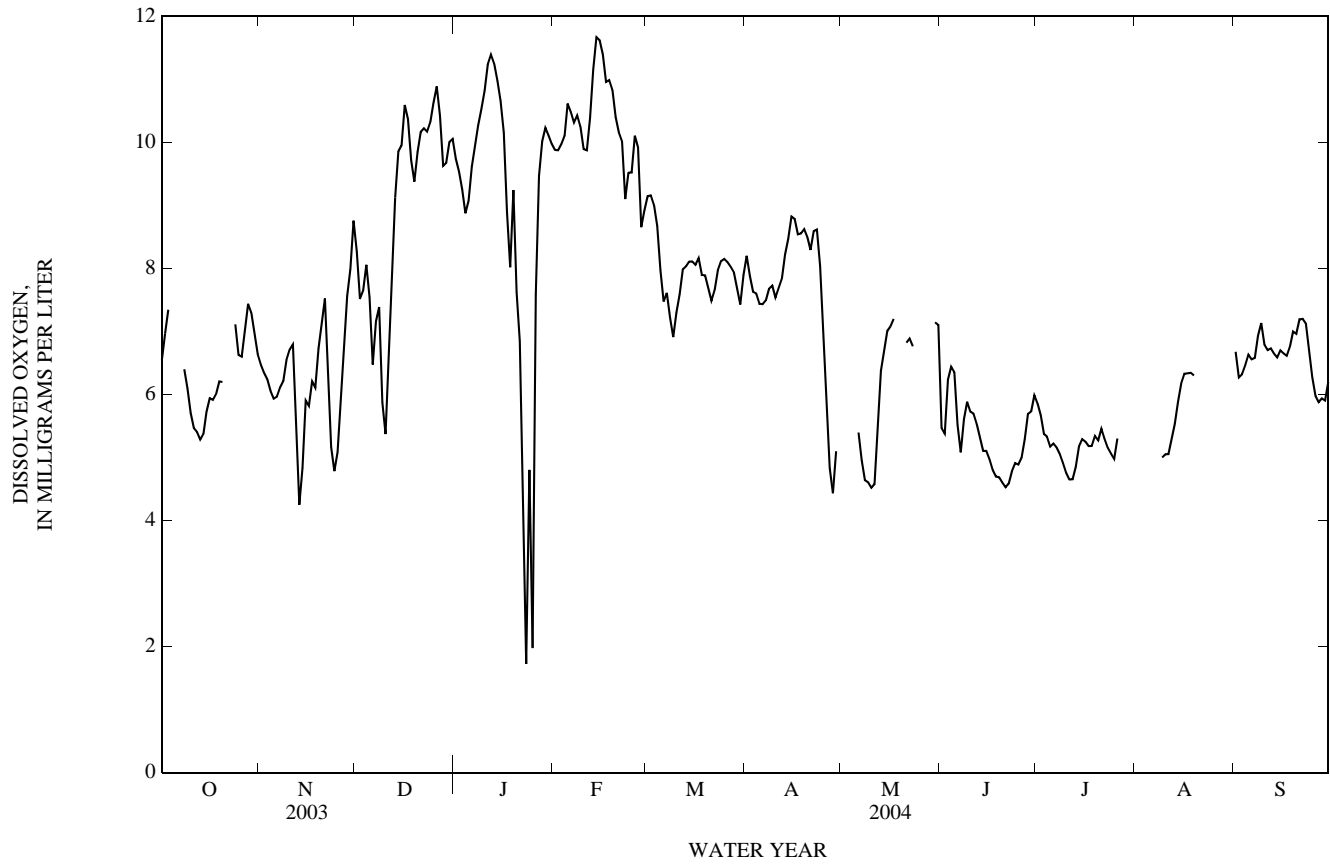
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	10.0	9.8	9.9	9.2	9.1	9.1	8.7	7.8	8.2	---	---	---
2	10.0	9.8	9.9	9.2	9.0	9.2	8.2	7.6	7.9	---	---	---
3	10.0	9.8	10	9.2	8.8	9.0	7.9	7.4	7.6	---	---	---
4	10.2	9.9	10.1	8.8	8.5	8.7	8.0	7.2	7.6	---	---	---
5	10.8	10.2	10.6	8.5	7.4	8.0	7.8	7.1	7.4	---	---	---
6	10.7	10.3	10.5	7.7	7.3	7.5	7.8	7.2	7.4	5.6	5.2	5.4
7	10.4	10.2	10.3	7.8	7.3	7.6	7.8	7.2	7.5	5.3	4.7	5.0
8	10.6	10.2	10.4	7.4	6.9	7.2	7.9	7.4	7.7	4.9	4.5	4.6
9	10.4	10.1	10.3	7.2	6.8	6.9	8.0	7.6	7.7	4.7	4.5	4.6
10	10.1	9.8	9.9	7.4	7.2	7.3	7.9	7.2	7.5	4.6	4.5	4.5
11	10.1	9.7	9.9	7.7	7.4	7.6	7.9	7.5	7.7	4.9	4.4	4.6
12	10.8	10.1	10.4	8.2	7.6	8.0	8.0	7.7	7.8	6.2	4.9	5.5
13	11.4	10.8	11.2	8.2	8.0	8.0	8.4	7.9	8.2	6.6	6.0	6.4
14	11.9	11.4	11.7	8.2	8.1	8.1	8.7	8.2	8.5	7.0	6.5	6.7
15	11.9	11.3	11.6	8.2	8.0	8.1	9.1	8.5	8.8	7.2	6.9	7.0
16	11.6	11.2	11.4	8.2	7.9	8.1	9.0	8.6	8.8	7.2	6.9	7.1
17	11.2	10.8	11.0	8.3	8.0	8.2	8.8	8.3	8.5	7.4	7.1	7.2
18	11.2	10.8	11.0	8.1	7.6	7.9	8.9	8.2	8.6	---	---	---
19	11.1	10.6	10.8	8.0	7.5	7.9	9.1	8.2	8.6	---	---	---
20	10.6	10.2	10.4	8.0	7.4	7.7	8.8	8.2	8.5	---	---	---
21	10.2	10.0	10.2	7.7	7.2	7.5	8.6	8.0	8.3	7.0	6.6	6.8
22	10.1	9.9	10.0	7.9	7.4	7.7	9.2	8.1	8.6	7.2	6.7	6.9
23	10.0	8.5	9.1	8.2	7.6	8.0	9.3	8.2	8.6	7.2	6.4	6.8
24	9.7	9.3	9.5	8.2	8.0	8.1	8.4	7.5	8.0	---	---	---
25	9.8	9.4	9.5	8.3	8.0	8.2	7.8	6.1	7.0	---	---	---
26	10.5	9.7	10.1	8.3	7.9	8.1	6.3	5.3	5.7	---	---	---
27	10.3	9.2	9.9	8.2	7.8	8.0	5.3	4.0	4.8	---	---	---
28	9.2	8.2	8.7	8.1	7.7	7.9	5.2	4.1	4.4	---	---	---
29	9.2	8.6	8.9	7.9	7.3	7.7	5.5	4.5	5.1	---	---	---
30	---	---	---	7.7	7.2	7.4	---	---	---	7.8	6.6	7.1
31	---	---	---	8.3	7.5	7.9	---	---	---	7.6	6.3	7.1
MONTH	11.9	8.2	10.2	9.2	6.8	8.0						
JUNE			JULY			AUGUST			SEPTEMBER			
1	6.3	4.9	5.5	6.0	5.7	5.9	---	---	---	6.9	6.4	6.7
2	6.0	5.1	5.4	5.9	5.5	5.7	---	---	---	6.4	6.1	6.3
3	6.4	6.0	6.2	5.5	5.3	5.4	---	---	---	6.5	6.2	6.3
4	6.5	6.3	6.4	5.4	5.2	5.3	---	---	---	6.6	6.3	6.5
5	6.5	5.9	6.4	5.3	5.1	5.2	---	---	---	6.8	6.4	6.6
6	6.2	4.9	5.5	5.3	5.1	5.2	---	---	---	6.8	6.3	6.6
7	5.4	4.7	5.1	5.3	5.0	5.2	---	---	---	6.7	6.4	6.6
8	5.9	5.2	5.6	5.2	4.9	5.1	---	---	---	7.2	6.7	6.9
9	6.0	5.5	5.9	5.1	4.8	4.9	5.2	4.9	5.0	7.3	7.0	7.1
10	5.9	5.4	5.7	4.9	4.6	4.8	5.3	4.9	5.1	7.3	6.4	6.8
11	5.9	5.6	5.7	4.8	4.6	4.7	5.3	5.0	5.1	6.9	6.6	6.7
12	5.7	5.4	5.5	4.8	4.6	4.7	5.5	5.0	5.3	6.8	6.6	6.7
13	5.5	5.2	5.3	5.0	4.7	4.9	5.7	5.3	5.5	6.8	6.4	6.6
14	5.3	5.0	5.1	5.4	5.0	5.2	6.1	5.6	5.9	6.9	6.4	6.6
15	5.2	5.0	5.1	5.5	5.1	5.3	6.4	6.1	6.2	6.9	6.5	6.7
16	5.1	4.8	5.0	5.4	5.1	5.3	6.4	6.2	6.3	6.8	6.4	6.7
17	5.0	4.7	4.8	5.3	5.1	5.2	6.4	6.3	6.3	6.9	6.3	6.6
18	4.8	4.6	4.7	5.3	5.0	5.2	6.4	6.3	6.3	7.2	6.3	6.8
19	4.8	4.5	4.7	5.5	5.1	5.3	6.4	6.3	6.3	7.5	6.7	7.0
20	4.7	4.4	4.6	5.6	5.0	5.3	---	---	---	7.4	6.6	7.0
21	4.7	4.4	4.5	5.6	5.3	5.5	---	---	---	7.9	6.6	7.2
22	4.8	4.4	4.6	5.5	5.2	5.3	---	---	---	8.6	6.5	7.2
23	4.9	4.7	4.8	5.3	5.0	5.2	---	---	---	7.6	5.9	7.1
24	5.1	4.8	4.9	5.2	4.9	5.1	---	---	---	7.2	6.2	6.7
25	5.1	4.6	4.9	5.1	4.9	5.0	---	---	---	7.1	5.8	6.3
26	5.2	4.8	5.0	5.4	5.1	5.3	---	---	---	6.6	5.5	6.0
27	5.6	5.1	5.3	---	---	---	---	---	---	6.4	5.3	5.9
28	5.8	5.5	5.7	---	---	---	---	---	---	6.8	5.3	5.9
29	5.9	5.6	5.7	---	---	---	---	---	---	6.6	5.2	5.9
30	6.1	5.8	6.0	---	---	---	---	---	---	7.2	5.5	6.2
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	6.5	4.4	5.3							8.6	5.2	6.6
YEAR	1											

Remarkcodes used in this report:

< -- Less than

08065350 Trinity River near Crockett, TX—Continued



08065800 Bédias Creek near Madisonville, TX

LOCATION.--Lat 30°53'05", long 95°46'40", Walker County, Hydrologic Unit 12030202, on right bank at downstream side of bridge on U.S. Highways 75 and 190, 0.5 mi upstream from Interstate Highway 45, 1.5 mi downstream from Caney Creek, and 9.5 mi southeast of Madisonville.

DRAINAGE AREA.--321 mi².

PERIOD OF RECORD.--Oct. 1967 to current year. Water-quality records: Chemical data: July 1962 to Apr. 1964, Jan. 1968 to Sept. 1974, Oct. 1984 to Sept. 1987. Biochemical data: Sept. 1970 to Sept. 1974, Apr. 1985 to June 1988, Apr. 1993 to Sept. 1995. Pesticide data: Apr. 1985 to Apr. 1988. Suspended sediment data: Oct. 1984 to Sept. 1986. Specific conductance: Oct. 1984 to Sept. 1987. Water temperature: Oct. 1984 to Sept. 1987.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 150.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. No known regulation or diversions. Flow may be slightly affected at times by discharge from the flood-detention pools of three floodwater-retarding structures. These structures control runoff from 2.71 mi² in the upper Caney Creek and Town Branch drainage basins. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1910, 34 ft in May 1922 (discharge unknown), from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.8	14	6.6	55	233	747	673	396	3,110	6.1	3.4
2	e1.8	9.4	10	8.5	199	463	105	1,590	634	3,790	6.5	2.9
3	e1.9	4.6	8.3	7.5	247	299	54	2,610	722	3,940	33	2.6
4	e2.0	3.1	7.2	7.4	142	157	36	2,630	232	1,840	22	2.6
5	e2.2	2.7	6.6	13	703	1,070	26	609	135	320	12	2.5
6	2.3	2.4	6.0	9.5	1,290	1,700	22	94	172	122	8.6	2.3
7	2.3	2.2	5.5	7.2	1,360	2,030	25	53	113	76	6.7	2.1
8	3.8	2.1	5.2	7.2	709	616	33	35	216	52	5.9	2.9
9	216	2.0	5.6	6.9	153	138	37	27	753	40	5.0	2.5
10	1,020	2.1	5.6	e6.5	1,200	77	27	22	909	48	4.4	1.9
11	908	2.3	5.5	e6.0	3,060	51	245	21	1,100	405	3.9	1.7
12	841	2.4	5.9	e5.5	4,820	39	628	23	471	383	3.4	1.6
13	172	2.2	18	5.0	4,180	33	608	764	129	139	3.3	1.6
14	47	2.0	23	4.8	2,670	30	217	5,160	69	59	3.2	1.8
15	24	2.1	19	4.8	1,510	28	79	6,460	372	33	3.1	2.4
16	15	251	13	5.0	1,290	38	41	3,770	1,270	24	3.0	2.4
17	9.5	1,880	11	e522	650	62	26	1,660	1,460	19	2.9	2.2
18	7.1	3,540	9.7	e1,110	191	144	19	322	2,190	24	2.7	2.2
19	5.8	2,390	7.9	e950	116	82	16	128	1,020	16	2.8	2.2
20	4.9	1,720	6.7	253	82	42	13	79	135	14	5.7	1.9
21	4.0	608	5.9	86	63	33	12	54	58	12	8.3	2.0
22	3.6	121	5.3	49	51	30	11	41	38	10	16	1.9
23	3.2	71	5.0	33	53	141	11	33	29	9.4	19	1.8
24	3.0	50	4.9	263	108	55	14	27	528	8.7	32	1.9
25	3.6	39	4.7	2,590	135	81	231	23	1,150	21	19	2.1
26	3.2	34	4.6	4,520	515	537	1,050	20	1,020	64	14	2.0
27	2.8	31	4.4	2,710	709	484	1,880	17	5,370	18	8.9	2.1
28	2.7	28	4.2	937	262	122	2,700	16	9,040	10	6.5	2.5
29	2.6	26	6.4	158	99	548	874	14	6,790	8.0	5.5	2.5
30	2.3	20	7.8	91	---	1,390	107	13	4,110	9.4	4.6	2.5
31	2.4	---	7.8	69	---	2,250	---	13	---	7.1	3.8	---
TOTAL	3,321.7	10,853.4	254.7	14,452.4	26,622	13,003	9,894	27,001	40,631	14,631.6	281.8	67.0
MEAN	107	362	8.22	466	918	419	330	871	1,354	472	9.09	2.23
MAX	1,020	3,540	23	4,520	4,820	2,250	2,700	6,460	9,040	3,940	33	3.4
MIN	1.7	2.0	4.2	4.8	51	28	11	13	29	7.1	2.7	1.6
AC-FT	6,590	21,530	505	28,670	52,800	25,790	19,620	53,560	80,590	29,020	559	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	205	214	281	317	346	290	228	302	298	37.3	24.3	87.6
MAX	3,021	1,495	1,279	2,015	1,580	1,353	1,333	1,046	1,745	472	266	1,551
(WY)	(1985)	(2001)	(2003)	(1991)	(1992)	(2001)	(1969)	(1969)	(1968)	(2004)	(1995)	(1974)
MIN	0.00	0.03	0.22	1.99	3.84	3.13	2.30	2.10	0.43	0.01	0.00	0.00
(WY)	(1979)	(1989)	(1968)	(1971)	(2000)	(1971)	(1981)	(2002)	(1998)	(1977)	(1969)	(1969)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

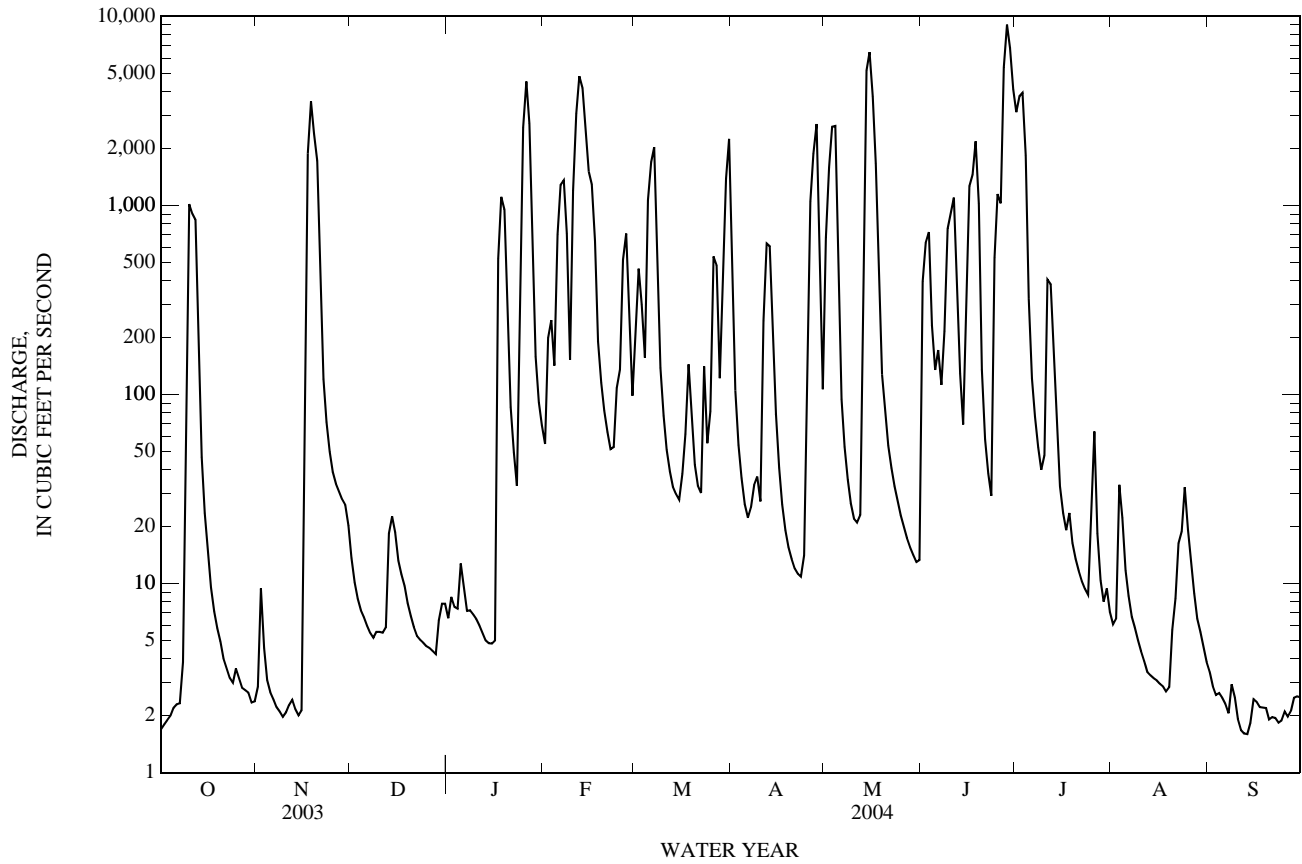
FOR 2004 WATER YEAR

WATER YEARS 1968 - 2004

ANNUAL TOTAL	88,217.66	161,013.6	
ANNUAL MEAN	242	440	219
HIGHEST ANNUAL MEAN			530
LOWEST ANNUAL MEAN			32.6
HIGHEST DAILY MEAN	15,800	9,040	26,800
LOWEST DAILY MEAN	0.33	1.6	0.00
ANNUAL SEVEN-DAY MINIMUM	0.70	1.9	0.00
MAXIMUM PEAK FLOW		10,500	39,600
MAXIMUM PEAK STAGE		20.24	25.83
ANNUAL RUNOFF (AC-FT)	175,000	319,400	158,300
10 PERCENT EXCEEDS	560	1,310	454
50 PERCENT EXCEEDS	14	26	9.5
90 PERCENT EXCEEDS	2.1	2.4	0.10

e Estimated

08065800 Bedia Creek near Madisonville, TX—Continued



08066170 Kickapoo Creek near Onalaska, TX

LOCATION.--Lat 30°54'25", long 95°05'18", Polk County, Hydrologic Unit 12030202, on right bank 114 ft upstream from old bridge site, 1.2 mi downstream from Magnolia Creek, 6.2 mi upstream from Rocky Creek, 7.3 mi northeast of Onalaska, and 15.9 mi upstream from mouth.

DRAINAGE AREA.--57.0 mi².

PERIOD OF RECORD.--Dec. 1965 to current year. Water-quality records: Chemical data: Dec. 1963 to Sept. 1974. Biochemical data: Oct. 1969 to Sept. 1974.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 139.85 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. No known regulation or diversions. Low flow is sustained by wastewater effluent that enters the creek upstream from this station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.32	0.46	5.7	8.0	20	1,330	11	490	9.1	152	2.0	1.1
2	0.31	0.40	5.3	6.7	28	205	9.5	195	7.5	121	1.2	1.1
3	0.32	0.38	4.9	5.1	23	118	9.8	42	8.0	39	1.0	1.2
4	0.33	0.38	3.6	4.7	16	94	9.4	20	46	23	0.95	1.4
5	0.33	0.33	3.2	50	363	607	8.6	13	32	16	0.87	1.3
6	0.36	0.30	2.9	17	92	96	8.9	12	11	12	0.78	1.2
7	0.38	0.25	2.9	7.1	36	45	10	11	7.2	8.2	0.68	2.5
8	0.36	0.20	2.9	5.4	20	31	11	9.7	285	5.6	0.66	2.0
9	58	0.18	12	6.5	16	25	8.7	9.0	141	68	0.71	1.3
10	55	0.15	15	6.1	816	20	8.3	9.6	30	80	16	1.1
11	5.4	0.21	9.1	4.4	2,020	18	51	74	17	38	4.7	1.0
12	1.8	0.19	6.2	3.6	438	16	57	151	9.2	20	2.5	1.1
13	0.96	0.17	61	3.0	122	15	54	4,520	5.6	6.4	1.7	1.0
14	0.65	0.16	24	2.8	340	56	22	688	4.3	3.8	1.5	1.4
15	0.46	0.26	9.1	2.7	138	63	13	139	40	3.4	1.1	1.7
16	0.38	1.6	5.1	2.9	60	28	11	56	70	4.3	0.73	1.2
17	0.37	20	4.1	1,420	35	31	9.3	36	29	4.3	0.64	1.0
18	0.33	109	3.5	133	22	19	9.0	27	10	18	1.1	1.0
19	0.33	23	3.0	53	17	14	8.2	21	4.7	6.3	2.6	0.97
20	0.33	13	2.8	28	14	12	8.1	17	3.0	4.4	6.1	0.94
21	0.35	9.4	2.5	17	12	36	7.9	14	2.3	4.1	19	0.86
22	0.31	7.9	2.4	12	9.9	18	7.7	12	5.1	4.4	23	0.84
23	0.32	7.3	4.8	9.0	351	11	7.5	9.9	161	3.4	6.3	0.84
24	0.32	7.6	3.6	346	281	9.3	9.4	8.7	69	2.9	3.2	0.94
25	0.41	6.7	3.0	795	224	8.8	269	7.8	178	23	2.3	6.8
26	2.1	54	2.6	80	96	8.4	180	7.1	203	18	1.9	9.7
27	1.6	195	2.4	33	40	8.2	43	6.5	1,840	5.1	1.6	1.9
28	0.98	27	2.5	19	24	7.9	20	6.1	458	3.7	1.4	1.3
29	0.70	13	83	23	136	62	13	5.5	248	3.5	1.3	1.0
30	0.59	8.0	27	80	---	27	13	5.3	99	3.8	1.2	0.99
31	0.52	---	12	34	---	14	---	6.5	---	3.3	1.2	---
TOTAL	134.92	506.52	332.1	3,218.0	5,809.9	3,053.6	908.3	6,629.7	4,033.0	708.9	109.92	50.68
MEAN	4.35	16.9	10.7	104	200	98.5	30.3	214	134	22.9	3.55	1.69
MAX	58	195	83	1,420	2,020	1,330	269	4,520	1,840	152	23	9.7
MIN	0.31	0.15	2.4	2.7	9.9	7.9	7.5	5.3	2.3	2.9	0.64	0.84
AC-FT	268	1,000	659	6,380	11,520	6,060	1,800	13,150	8,000	1,410	218	101
CFSM	0.08	0.30	0.19	1.82	3.51	1.73	0.53	3.75	2.36	0.40	0.06	0.03
IN.	0.09	0.33	0.22	2.10	3.79	1.99	0.59	4.33	2.63	0.46	0.07	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	66.0	44.9	59.3	77.6	77.1	66.2	52.1	59.0	56.4	10.7	6.31	11.0
MAX	1,891	416	200	320	288	236	270	214	365	100	51.4	107
(WY)	(1995)	(1999)	(2003)	(1974)	(1992)	(1990)	(1979)	(2004)	(1973)	(1989)	(1975)	(1973)
MIN	0.31	0.82	1.67	1.17	1.00	0.76	1.13	0.86	0.31	0.08	0.25	0.37
(WY)	(1988)	(1991)	(2000)	(2000)	(2000)	(1971)	(1971)	(1988)	(1971)	(1971)	(2000)	(1989)

SUMMARY STATISTICS

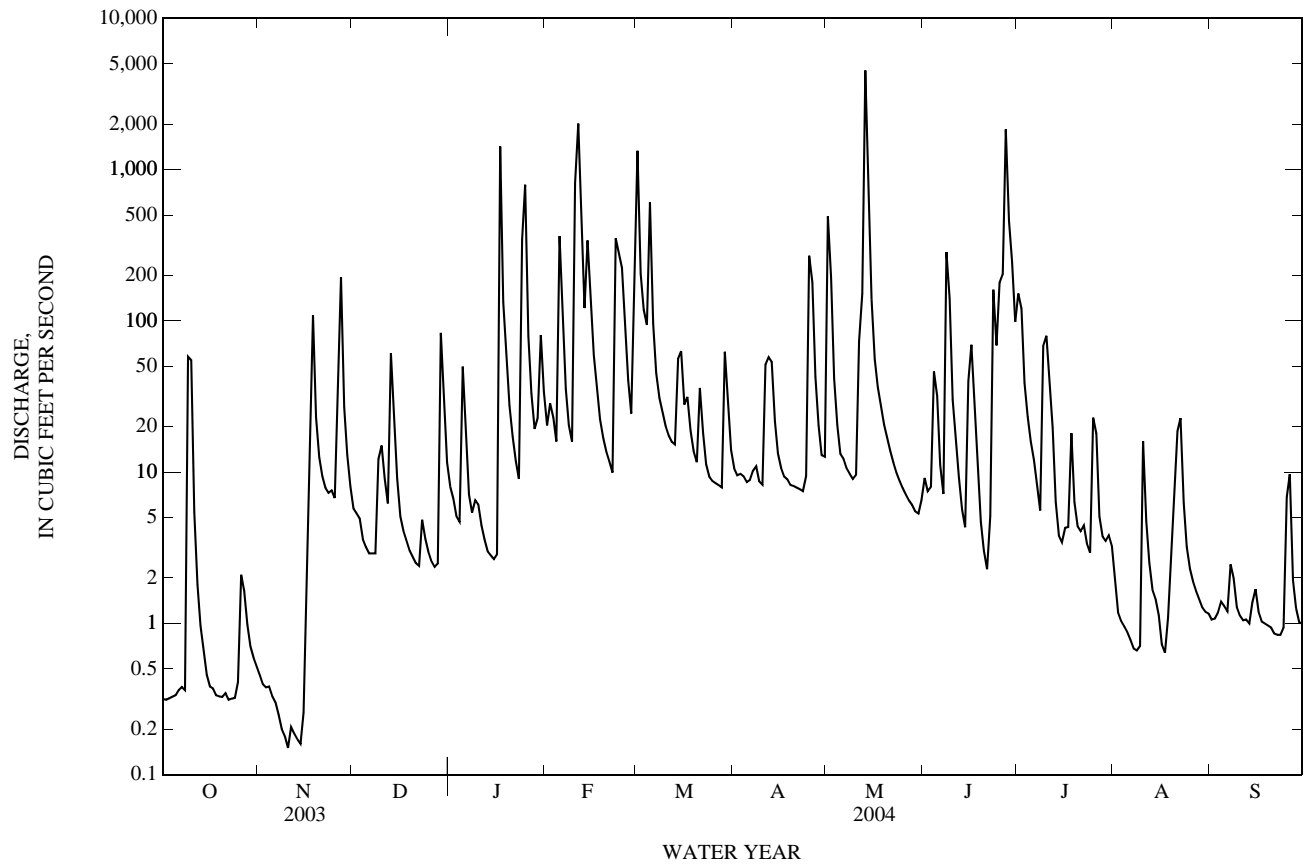
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	8,237.78	25,495.54	
ANNUAL MEAN	22.6	69.7	48.7
HIGHEST ANNUAL MEAN			223
LOWEST ANNUAL MEAN			1.53
HIGHEST DAILY MEAN	1,790	Feb 21	38,800
LOWEST DAILY MEAN	0.15	Nov 10	0.02
ANNUAL SEVEN-DAY MINIMUM	0.18	Nov 8	0.02
MAXIMUM PEAK FLOW			84,600
MAXIMUM PEAK STAGE			41.85
ANNUAL RUNOFF (AC-FT)	16,340	50,570	35,250
ANNUAL RUNOFF (CFSM)	0.396	1.22	0.854
ANNUAL RUNOFF (INCHES)	5.38	16.64	11.60
10 PERCENT EXCEEDS	24	121	60
50 PERCENT EXCEEDS	1.4	8.2	3.4
90 PERCENT EXCEEDS	0.42	0.62	0.50

08066170 Kickapoo Creek near Onalaska, TX—Continued



08066190 Livingston Reservoir near Goodrich, TX

LOCATION.--Lat 30°38'00", long 95°00'36", Polk County, Hydrologic Unit 12030202, at left end of gated spillway at Livingston Dam on Trinity River, 4.4 mi northwest of Goodrich, 7.0 mi southwest of Livingston, 11.7 mi upstream from Long King Creek, and at mile 129.2.

DRAINAGE AREA.--16,583 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Sept. 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Trinity River Authority). Prior to Feb. 26, 1969, temporary nonrecording gages at site about 200 ft upstream and at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by an earthfill dam 14,400 ft long. The dam was completed Sept. 29, 1968, and deliberate impoundment began June 26, 1969. The reservoir is operated for industrial water supply in the Houston metropolitan area. The spillway has twelve 40 x 35 ft tainter gates located near the left end of dam. Low-flow releases may be made through multi-gated inlet tower. There are five gated openings at various elevations located in the tower, and all discharge into a 10-foot-diameter concrete conduit through the dam. Flow is affected at times by discharge from the flood-detention pools of 255 floodwater-retarding structures. These structures control runoff from 617 mi² in the Richland, Chambers, Tehuacana, and Bedia Creek drainage basins. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	145.0
Design flood	135.0
Top of tainter gates	134.0
Crest of spillway (sill of tainter gates)	99.0
Lowest gated outlet (invert)	58.0

COOPERATION.--The capacity table, furnished by the Trinity River Authority, is based on a survey by the Bureau of Reclamation dated Dec. 1991.

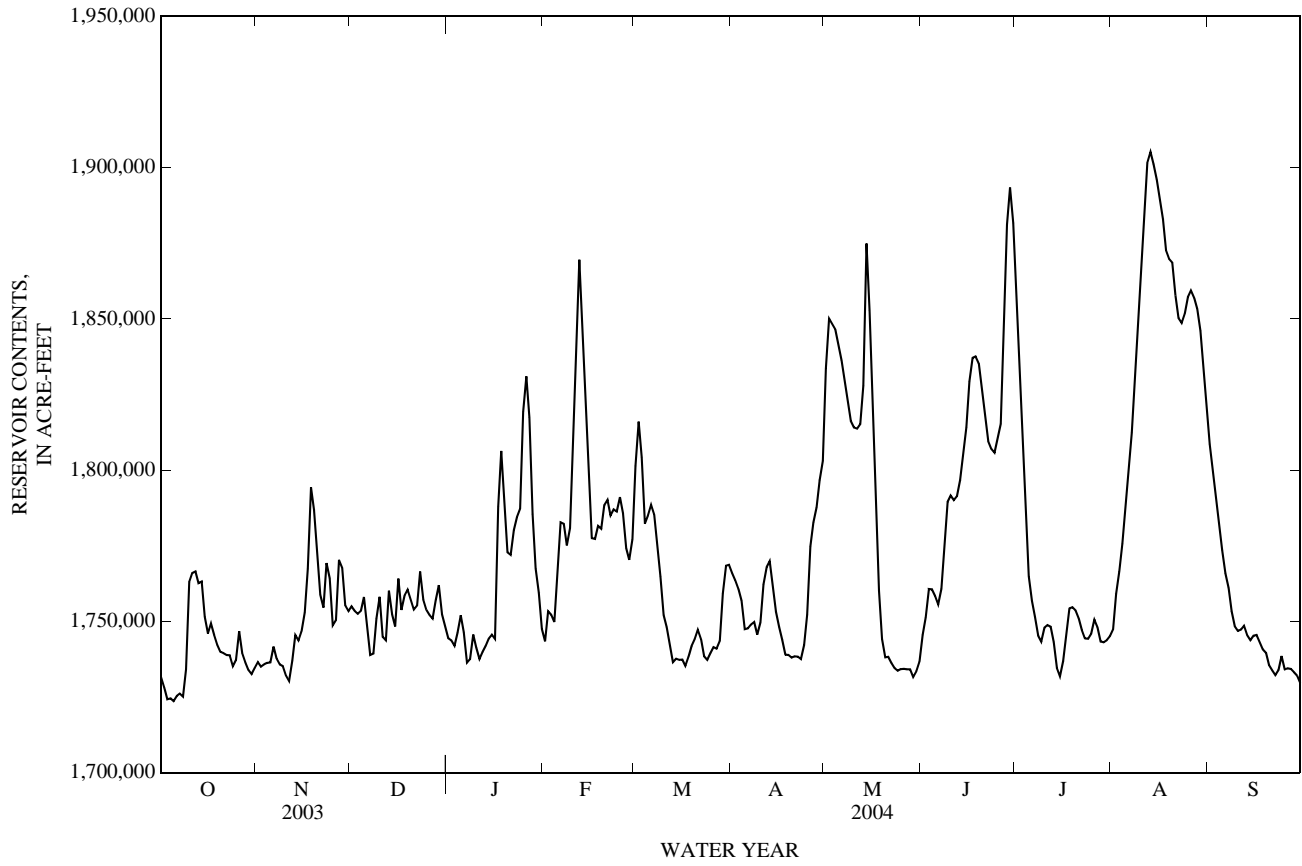
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,081,000 acre-ft, Oct. 17, 1994, elevation, 134.39 ft; minimum since conservation pool capacity was reached on Nov. 2, 1971, 1,345,000 acre-ft, Oct. 25, 1988, elevation, 125.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,907,000 acre-ft, Aug. 13, elevation 132.92 ft; minimum contents, 1,719,000 acre-ft, Oct. 5, elevation, 130.72 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,732,000	1,737,000	1,755,000	1,744,000	1,743,000	1,801,000	1,766,000	1,834,000	1,746,000	1,860,000	1,747,000	1,809,000
2	1,728,000	1,735,000	1,753,000	1,744,000	1,753,000	1,816,000	1,764,000	1,850,000	1,751,000	1,825,000	1,759,000	1,799,000
3	1,724,000	1,736,000	1,753,000	1,742,000	1,752,000	1,804,000	1,761,000	1,848,000	1,761,000	1,800,000	1,767,000	1,791,000
4	1,725,000	1,736,000	1,754,000	1,746,000	1,750,000	1,782,000	1,757,000	1,846,000	1,761,000	1,780,000	1,776,000	1,782,000
5	1,724,000	1,736,000	1,758,000	1,752,000	1,767,000	1,785,000	1,747,000	1,842,000	1,758,000	1,765,000	1,787,000	1,773,000
6	1,725,000	1,742,000	1,748,000	1,746,000	1,783,000	1,789,000	1,748,000	1,836,000	1,756,000	1,757,000	1,799,000	1,766,000
7	1,726,000	1,738,000	1,739,000	1,736,000	1,782,000	1,785,000	1,749,000	1,829,000	1,761,000	1,751,000	1,812,000	1,761,000
8	1,725,000	1,736,000	1,739,000	1,737,000	1,775,000	1,774,000	1,750,000	1,822,000	1,776,000	1,745,000	1,829,000	1,753,000
9	1,734,000	1,735,000	1,751,000	1,746,000	1,781,000	1,765,000	1,746,000	1,816,000	1,789,000	1,743,000	1,847,000	1,748,000
10	1,763,000	1,732,000	1,758,000	1,741,000	1,810,000	1,752,000	1,750,000	1,814,000	1,792,000	1,748,000	1,864,000	1,747,000
11	1,766,000	1,730,000	1,745,000	1,738,000	1,847,000	1,748,000	1,762,000	1,814,000	1,790,000	1,749,000	1,883,000	1,747,000
12	1,766,000	1,737,000	1,744,000	1,740,000	1,870,000	1,742,000	1,768,000	1,815,000	1,791,000	1,748,000	1,901,000	1,749,000
13	1,763,000	1,745,000	1,760,000	1,742,000	1,851,000	1,736,000	1,770,000	1,828,000	1,797,000	1,743,000	1,905,000	1,745,000
14	1,763,000	1,744,000	1,752,000	1,744,000	1,831,000	1,738,000	1,761,000	1,875,000	1,805,000	1,735,000	1,901,000	1,744,000
15	1,751,000	1,747,000	1,748,000	1,746,000	1,802,000	1,737,000	1,753,000	1,853,000	1,814,000	1,732,000	1,896,000	1,745,000
16	1,746,000	1,753,000	1,764,000	1,744,000	1,778,000	1,737,000	1,748,000	1,815,000	1,829,000	1,737,000	1,890,000	1,746,000
17	1,749,000	1,767,000	1,754,000	1,788,000	1,777,000	1,735,000	1,744,000	1,785,000	1,837,000	1,745,000	1,883,000	1,743,000
18	1,746,000	1,794,000	1,759,000	1,806,000	1,782,000	1,738,000	1,739,000	1,760,000	1,838,000	1,754,000	1,873,000	1,741,000
19	1,742,000	1,787,000	1,761,000	1,790,000	1,781,000	1,742,000	1,739,000	1,744,000	1,835,000	1,755,000	1,870,000	1,740,000
20	1,740,000	1,771,000	1,757,000	1,773,000	1,788,000	1,744,000	1,738,000	1,738,000	1,827,000	1,754,000	1,869,000	1,736,000
21	1,740,000	1,759,000	1,754,000	1,772,000	1,790,000	1,747,000	1,738,000	1,738,000	1,818,000	1,751,000	1,858,000	1,734,000
22	1,739,000	1,755,000	1,755,000	1,780,000	1,785,000	1,744,000	1,738,000	1,736,000	1,810,000	1,747,000	1,850,000	1,732,000
23	1,739,000	1,769,000	1,766,000	1,784,000	1,787,000	1,738,000	1,738,000	1,735,000	1,807,000	1,744,000	1,849,000	1,734,000
24	1,735,000	1,764,000	1,757,000	1,787,000	1,786,000	1,737,000	1,742,000	1,734,000	1,806,000	1,744,000	1,852,000	1,739,000
25	1,737,000	1,749,000	1,754,000	1,819,000	1,791,000	1,739,000	1,752,000	1,734,000	1,810,000	1,746,000	1,857,000	1,734,000
26	1,747,000	1,750,000	1,752,000	1,831,000	1,786,000	1,741,000	1,775,000	1,734,000	1,815,000	1,751,000	1,859,000	1,734,000
27	1,740,000	1,770,000	1,751,000	1,817,000	1,774,000	1,741,000	1,783,000	1,734,000	1,843,000	1,748,000	1,857,000	1,734,000
28	1,736,000	1,768,000	1,757,000	1,785,000	1,770,000	1,744,000	1,788,000	1,734,000	1,881,000	1,743,000	1,853,000	1,733,000
29	1,734,000	1,755,000	1,762,000	1,768,000	1,777,000	1,759,000	1,797,000	1,732,000	1,893,000	1,743,000	1,846,000	1,732,000
30	1,733,000	1,753,000	1,752,000	1,759,000	---	1,768,000	1,803,000	1,734,000	1,882,000	1,744,000	1,834,000	1,730,000
31	1,735,000	---	1,749,000	1,747,000	---	1,769,000	---	1,737,000	---	1,745,000	1,821,000	---
TOTAL	53,953,000	52,530,000	54,361,000	54,694,000	51,849,000	54,477,000	52,714,000	55,446,000	54,179,000	54,432,000	57,194,000	52,501,000
MEAN	1,740,000	1,751,000	1,754,000	1,764,000	1,788,000	1,757,000	1,757,000	1,789,000	1,806,000	1,756,000	1,845,000	1,750,000
MAX	1,766,000	1,794,000	1,766,000	1,831,000	1,870,000	1,816,000	1,803,000	1,875,000	1,893,000	1,860,000	1,905,000	1,809,000
MIN	1,724,000	1,730,000	1,739,000	1,736,000	1,743,000	1,735,000	1,738,000	1,732,000	1,746,000	1,732,000	1,747,000	1,730,000
CAL YR	2003	TOTAL	640,074,000	MEAN	1,754,000	MAX	1,886,000	MIN	1,714,000			
WTR YR	2004	TOTAL	648,330,000	MEAN	1,771,000	MAX	1,905,000	MIN	1,724,000			

08066190 Livingston Reservoir near Goodrich, TX—Continued



08066190 Livingston Reservoir near Goodrich, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1969 to current year.

BIOCHEMICAL DATA: Oct. 1969 to current year.

303807095011101 -- LIVINGSTON RES SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Reser- voir storage acre-ft (00054)	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
FEB													
26...	1410	1,790,000	1.00	763	9.6	89	8.0	340	12.0	35	110	36.3	4.06
26...	1425	--	10.0	763	9.5	88	8.0	340	12.0	--	--	--	--
26...	1429	--	20.0	763	9.4	87	7.9	340	12.0	--	--	--	--
26...	1433	--	30.0	763	9.4	87	7.9	340	12.0	--	--	--	--
26...	1436	--	40.0	763	9.4	87	7.9	340	12.0	--	--	--	--
26...	1441	--	50.0	763	9.4	87	7.9	335	12.0	--	--	--	--
26...	1445	--	60.0	763	9.4	87	7.9	335	12.0	--	--	--	--
26...	1449	--	65.0	763	9.4	87	7.9	335	12.0	33	110	36.3	4.05
AUG													
26...	1235	1,860,000	1.00	771	6.8	89	8.3	305	29.9	--	110	37.8	3.44
26...	1238	--	10.0	771	5.8	76	8.1	305	29.6	--	--	--	--
26...	1241	--	20.0	771	4.3	56	7.8	310	29.2	--	--	--	--
26...	1244	--	30.0	771	2.9	37	7.6	310	29.1	--	--	--	--
26...	1247	--	40.0	771	1.8	23	7.4	310	29.1	--	--	--	--
26...	1250	--	50.0	771	7.4	95	7.4	310	28.9	--	--	--	--
26...	1253	--	60.0	771	.3	4	7.3	315	28.9	--	--	--	--
26...	1256	--	60.0	771	.2	3	7.1	360	27.9	--	120	41.2	3.82

303807095011101 -- LIVINGSTON RES SITE AC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)
FEB													
26...	5.16	1	28.3	35	73	29.5	.3	6.6	40.3	207	.61	.04	2.88
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	5.14	1	28.0	35	74	29.6	.3	6.6	40.7	199	.53	.04	.82
AUG													
26...	4.98	.7	17.2	25	--	17.3	.3	8.9	27.2	173	.37	<.04	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	.39	<.04	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	.41	E.02n	.24
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	4.96	.8	20.0	26	--	21.3	.3	13.9	22.2c	198	1.8	1.36	--

08066190 Livingston Reservoir near Goodrich, TX—Continued

303807095011101 -- LIVINGSTON RES SITE AC
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)
FEB								
26...	2.90	.014	.57	.310	.10	.12	60	3.6
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	.84	.014	.48	.313	.10	.12	21	1.6
AUG								
26...	<.06	<.008	--	.279	.09	.10	<6	<.8
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	.15	E.007n	--	.343	.11	.12	<6	E.8n
26...	--	--	--	--	--	--	--	--
26...	.25	.010	--	.402	.13	.14	E4n	50.2
26...	--	--	--	--	--	--	--	--
26...	<.06	<.008	.47	3.41	1.11d	1.12	1,040	1,820

303821095005001 -- LIVINGSTON RES SITE AL
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam-pling depth, feet (00003)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
FEB								
26...	1509	1.00	763	9.6	89	8.0	345	12.0
26...	1512	10.0	763	9.5	88	8.0	340	12.0
26...	1515	20.0	763	9.4	87	7.9	335	12.0
26...	1518	30.0	763	9.4	87	7.9	335	12.0
26...	1521	40.0	763	9.4	87	8.0	340	12.0
26...	1524	50.0	763	9.4	87	8.0	345	12.0
AUG								
26...	1330	1.00	767	6.1	81	8.2	305	30.4
26...	1333	10.0	767	5.1	67	8.1	305	30.0
26...	1336	20.0	767	3.9	51	7.8	310	29.7
26...	1339	30.0	767	1.8	23	7.5	310	29.3
26...	1342	40.0	767	1.3	17	7.3	310	29.0

303935095055401 -- LIVINGSTON RES SITE BC
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam-pling depth, feet (00003)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)
FEB								
26...	1325	1.00	763	9.7	90	8.1	360	12.0
26...	1327	10.0	763	9.6	89	8.0	360	12.0
26...	1329	20.0	763	9.4	86	8.0	360	11.5
26...	1332	30.0	763	9.4	86	8.0	365	11.5
26...	1335	40.0	763	9.4	86	8.0	365	11.5
26...	1338	50.0	763	9.3	84	8.0	350	11.0
AUG								
26...	1405	1.00	770	5.9	77	8.2	330	30.0
26...	1408	10.0	770	5.7	74	8.1	330	29.7
26...	1411	20.0	770	4.8	62	8.0	330	29.4
26...	1414	30.0	770	4.7	61	7.9	330	29.2
26...	1417	40.0	770	2.9	37	7.7	335	28.9
26...	1420	50.0	770	2.0	26	7.6	340	28.8

TRINITY RIVER BASIN

08066190 Livingston Reservoir near Goodrich, TX—Continued

304144095073001 -- LIVINGSTON RES SITE CC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
FEB								
26...	1253	1.00	765	9.9	93	8.1	370	12.5
26...	1256	10.0	765	9.7	90	8.1	370	12.0
26...	1300	20.0	765	9.5	87	8.0	365	11.5
26...	1303	30.0	765	9.5	87	8.0	360	11.5
26...	1305	40.0	765	9.5	86	8.0	360	11.0
26...	1308	50.0	765	9.5	86	8.0	360	11.0
AUG								
26...	1433	1.00	770	6.6	86	8.5	330	29.7
26...	1437	10.0	770	6.0	78	8.3	330	29.5
26...	1440	20.0	770	4.9	64	8.1	330	29.4
26...	1443	30.0	770	4.2	54	8.0	330	29.2
26...	1446	40.0	770	3.4	44	7.8	335	29.3
26...	1449	50.0	770	2.5	32	7.7	335	29.2

304521095075501 -- LIVINGSTON RES SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
FEB													
26...	1110	1.00	765	8.9	82	7.7	270	12.0	.64	<.04	.61	.62	.014
26...	1119	10.0	765	9.0	83	7.7	270	12.0	--	--	--	--	--
26...	1121	20.0	765	8.9	82	7.7	270	12.0	--	--	--	--	--
26...	1124	30.0	765	8.9	82	7.7	270	12.0	--	--	--	--	--
26...	1126	40.0	765	8.9	82	7.8	295	12.0	--	--	--	--	--
26...	1135	50.0	765	8.9	81	7.8	330	11.5	.55	.07	.76	.77	.011
AUG													
26...	1610	1.00	769	8.5	117	8.8	320	32.9	.41	<.04	--	<.06	<.008
26...	1613	10.0	770	6.2	81	8.4	325	30.0	--	--	--	--	--
26...	1616	20.0	769	5.7	74	8.3	325	29.9	.39	<.04	--	<.06	<.008
26...	1619	30.0	770	5.2	68	8.2	335	29.7	--	--	--	--	--
26...	1622	40.0	770	4.7	61	8.1	350	29.6	--	--	--	--	--
26...	1625	48.0	769	3.6	47	8.0	370	29.5	.48	.11	.19	.25	.053

304521095075501 -- LIVINGSTON RES SITE DC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
FEB						
26...	--	.248	.08	.11	46	2.2
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	.48	.291	.10	.12	25	13.2
AUG						
26...	--	.215	.07	.09	<6	.9
26...	--	--	--	--	--	--
26...	--	.224	.07	.09	<6	E.5n
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	.37	.279	.09	.10	<6	34.1

08066190 Livingston Reservoir near Goodrich, TX—Continued

304453095064901 -- LIVINGSTON RES SITE DL
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
FEB								
26...	1036	1.00	765	9.4	86	7.9	320	11.5
26...	1045	10.0	765	9.2	83	7.8	320	11.0
26...	1047	15.0	765	9.2	83	7.8	320	11.0

304659095052001 -- LIVINGSTON RES SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
FEB													
26...	0927	1.00	764	8.7	77	7.7	330	10.0	.61	.11	.84	.86	.017
26...	0943	10.0	764	8.5	75	7.6	330	10.0	--	--	--	--	--
26...	0945	20.0	764	8.4	74	7.6	330	10.0	--	--	--	--	--
26...	0948	24.0	764	8.4	75	7.6	330	10.5	.61	.12	.73	.75	.011
AUG													
25...	1524	1.00	770	9.5	126	8.9	320	30.8	.41	<.04	--	<.06	<.008
25...	1527	10.0	770	6.9	90	8.6	330	29.9	--	--	--	--	--
25...	1530	20.0	770	5.2	68	8.4	340	29.5	--	--	--	--	--
25...	1533	24.0	770	4.8	62	8.2	340	29.4	.47	.04	--	<.06	.014

304659095052001 -- LIVINGSTON RES SITE EC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
FEB						
26...	.51	.313	.10	.13	28	2.5
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	.49	.291	.10	.12	25	2.3
AUG						
25...	--	.215	.07	.08	<6	E.6n
25...	--	--	--	--	--	--
25...	--	--	--	--	--	--
25...	.43	.267	.09	.11	<6	2.6

304843095104001 -- LIVINGSTON RES SITE FC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
FEB								
26...	1654	1.00	764	8.7	81	7.7	250	12.0
26...	1657	10.0	764	8.7	81	7.6	250	12.0
26...	1700	20.0	764	8.6	80	7.6	250	12.0
26...	1703	30.0	764	8.6	80	7.6	250	12.0
26...	1706	40.0	764	8.5	79	7.6	250	12.0
26...	1708	50.0	764	8.4	78	7.6	250	12.0
AUG								
25...	1438	1.00	770	6.3	83	8.4	380	30.4
25...	1441	10.0	770	4.9	64	8.2	385	29.8
25...	1444	20.0	770	4.8	62	8.2	380	29.4
25...	1447	30.0	770	4.4	57	8.0	380	29.5
25...	1450	40.0	770	3.3	43	7.8	380	29.3

08066190 Livingston Reservoir near Goodrich, TX—Continued

305411095144901 -- LIVINGSTON RES SITE GC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
FEB													
27...	1005	1.00	769	8.7	78	7.5	300	11.0	42	93	30.3	4.10	4.47
27...	1015	10.0	769	8.6	77	7.5	310	11.0	--	--	--	--	--
27...	1018	20.0	769	8.6	77	7.6	335	11.0	--	--	--	--	--
27...	1021	30.0	769	8.6	77	7.6	340	11.0	--	--	--	--	--
27...	1025	34.0	769	8.6	77	7.6	340	11.0	40	110	35.0	4.46	4.73
AUG													
25...	1315	1.00	771	5.5	73	7.8	430	30.5	--	140	48.8	4.18	6.00
25...	1318	10.0	771	5.3	70	7.7	430	30.0	--	--	--	--	--
25...	1321	20.0	771	4.9	64	7.6	440	29.6	--	--	--	--	--
25...	1324	30.0	770	4.8	63	7.5	450	29.7	--	--	--	--	--
25...	1327	33.0	771	4.6	60	7.5	450	29.6	--	140	50.9	4.28	5.98

305411095144901 -- LIVINGSTON RES SITE GC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
FEB													
27...	1	23.6	34	50	24.7	.2	9.4	40.7	172	.67	.08	.92	.93
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	1	25.5	33	66	27.6	.3	9.4	45.2	197	.59	.07	1.13	1.14
AUG													
25...	1	29.2	30	--	27.2	.5	8.6	52.2	249	.38	<.04	1.47	1.48
25...	--	--	--	--	--	--	--	--	--	.38	<.04	1.45	1.47
25...	--	--	--	--	--	--	--	--	--	.37	<.04	1.65	1.67
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	1	30.6	30	--	28.6	.5	<.2	54.7	251	.38	E.03n	1.72	1.74

305411095144901 -- LIVINGSTON RES SITE GC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
FEB							
27...	.013	.60	.365	.12	.14	63	29.0
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	.017	.52	.445	.14	.17	41	21.4
AUG							
25...	.017	--	.389	.13	.13	<6	3.4
25...	.017	--	.386	.13	.13	<6	3.4
25...	.014	--	.435	.14	.15	<6	5.3
25...	--	--	--	--	--	--	--
25...	.015	--	.445	.14	.15	<6	48.8

08066190 Livingston Reservoir near Goodrich, TX—Continued

305447095161401 -- LIVINGSTON RES SITE HC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
FEB													
27...	0912	1.00	768	8.6	78	6.9	210	11.5	.67	.10	.29	.30	.011
27...	0922	10.0	768	8.2	75	7.0	225	11.5	--	--	--	--	--
27...	0925	20.0	768	8.2	75	7.2	260	11.5	--	--	--	--	--
27...	0929	30.0	768	8.5	77	7.4	290	11.5	--	--	--	--	--
27...	0932	35.0	768	8.3	75	7.5	310	11.0	.60	.08	.96	.97	.013
AUG													
25...	1227	1.00	771	5.2	69	7.8	400	30.8	.47	E.03n	1.06	1.09	.031
25...	1230	10.0	770	3.2	41	7.3	320	29.1	--	--	--	--	--
25...	1233	20.0	770	3.0	39	7.3	320	29.1	--	--	--	--	--
25...	1236	30.0	770	3.3	43	7.3	320	29.0	--	--	--	--	--
25...	1239	33.0	771	3.0	39	7.2	310	28.9	.53	.10	.22	.26	.045

305447095161401 -- LIVINGSTON RES SITE HC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
FEB						
27...	.58	.159	.05	.07	127	72.5
27...	--	--	--	--	--	--
27...	--	--	--	--	--	--
27...	--	--	--	--	--	--
27...	.52	.350	.11	.14	67	39.4
AUG						
25...	--	.227	.07	.09	E4n	2.5
25...	--	--	--	--	--	--
25...	--	--	--	--	--	--
25...	--	--	--	--	--	--
25...	.42	.132	.04	.05	E4n	89.2

305135095193601 -- LIVINGSTON RES SITE IC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
FEB								
25...	1705	1.00	758	9.8	89	7.4	400	11.0
25...	1708	10.0	758	9.7	89	7.4	400	11.5
25...	1711	20.0	758	9.7	89	7.4	400	11.5
25...	1714	30.0	758	9.7	90	7.4	400	12.0
25...	1716	35.0	758	12.8	118	6.9	460	11.5
AUG								
25...	1132	1.00	770	4.7	61	7.4	455	29.3
25...	1135	10.0	770	4.6	60	7.4	455	29.2
25...	1138	20.0	770	4.6	59	7.4	460	29.0
25...	1141	30.0	770	4.5	58	7.3	460	28.8
25...	1144	35.0	770	4.5	58	7.3	460	28.8

08066190 Livingston Reservoir near Goodrich, TX—Continued

305135095235401 -- LIVINGSTON RES SITE JC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
FEB													
25...	1741	1.00	759	9.4	88	7.3	345	12.0	39	110	35.7	4.02	4.38
25...	1750	10.0	759	9.3	87	7.4	370	12.0	--	--	--	--	--
25...	1753	20.0	759	9.3	87	7.4	375	12.0	--	--	--	--	--
25...	1756	30.0	759	9.2	86	7.4	390	12.0	48	120	40.6	4.91	4.76
AUG													
25...	1025	1.00	771	4.8	61	7.3	430	28.1	--	130	45.1	3.98	5.97
25...	1028	10.0	771	4.5	57	7.2	435	28.1	--	--	--	--	--
25...	1031	20.0	771	4.5	57	7.2	440	28.1	--	--	--	--	--
25...	1034	30.0	771	4.4	56	7.2	440	28.0	--	130	47.0	4.17	6.32

305135095235401 -- LIVINGSTON RES SITE JC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Sodium adsorp- tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
FEB													
25...	1	24.2	32	67	27.2	.2	11.8	41.0	194	.57	.07	.94	.95
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	1	28.6	33	74	30.1	.3	10.6	51.5	223	.58	.05	1.43	1.44
AUG													
25...	1	31.7	34	--	34.2	.5	8.3	48.7	246	.35	<.04	--	2.42
25...	--	--	--	--	--	--	--	--	--	.42	<.04	--	2.45
25...	--	--	--	--	--	--	--	--	--	.38	<.04	--	2.46
25...	1	33.4	34	--	35.2	.5	8.2	49.5	251	.36	<.04	--	2.48

305135095235401 -- LIVINGSTON RES SITE JC
WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitro- gen, water, fltrd, mg/L (00607)	Ortho- phos- phate, water, fltrd, mg/L (00660)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)
FEB							
25...	.014	.51	.469	.15	.18	37	24.7
25...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
25...	.013	.53	.438	.14	.17	29	31.6
AUG							
25...	<.008	--	.438	.14	.15	<6	<.8
25...	<.008	--	.420	.14	.15	<6	<.8
25...	<.008	--	.435	.14	.15	E3n	<.8
25...	<.008	--	.448	.15	.15	<6	E.4n

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL

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08066200 Long King Creek at Livingston, TX

LOCATION.--Lat 30°42'58", long 94°57'31", Polk County, Hydrologic Unit 12030202, on right bank at upstream side of bridge on U.S. Highway 190, 2.0 mi west of Livingston, 2.0 mi upstream from Choates Creek, and 14.8 mi upstream from mouth.

DRAINAGE AREA.--141 mi².

PERIOD OF RECORD.--Jan. 1963 to current year. Water-quality records: Chemical data: Jan. 1963 to Sept. 1972. Specific conductance: Jan. 1963 to Sept. 1972. Water temperature: Jan. 1963 to Sept. 1972.

GAGE.--Water-stage recorder. Datum of gage is 100.12 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1870, about 41 ft in May 1929.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.6	13	24	86	1,680	37	3,200	17	2,020	20	4.6
2	6.4	7.8	12	21	104	727	29	1,140	14	1,380	32	4.6
3	5.5	7.9	11	19	84	268	25	157	16	241	12	5.2
4	5.3	7.9	11	18	59	184	24	72	14	106	9.4	5.7
5	6.1	8.4	10	16	479	283	22	43	17	65	8.7	5.2
6	5.9	7.8	9.3	14	314	212	21	31	15	46	8.2	5.4
7	6.2	7.5	9.0	13	115	110	24	26	12	36	7.5	7.9
8	6.9	7.7	9.4	15	74	76	32	23	802	31	7.3	13
9	21	8.2	13	17	60	58	23	21	881	26	7.2	6.6
10	159	8.5	18	17	1,070	48	145	21	121	34	7.3	4.6
11	54	8.5	19	14	3,300	42	1,540	79	68	26	7.4	4.0
12	19	8.6	15	13	3,020	39	371	297	40	336	6.7	3.8
13	11	8.4	220	13	365	37	312	2,200	35	70	5.9	3.6
14	8.2	7.6	114	13	763	39	114	3,510	96	31	5.5	3.7
15	6.6	7.5	42	13	518	50	60	425	833	23	5.1	4.2
16	5.6	14	26	14	191	48	39	149	924	20	4.9	4.2
17	5.3	293	19	1,060	125	48	30	91	269	18	4.9	3.5
18	4.8	1,460	17	432	92	42	25	63	111	19	4.8	3.2
19	4.8	181	14	108	77	35	23	70	49	21	12	4.1
20	4.9	53	13	59	68	32	21	46	31	15	25	4.4
21	4.8	30	12	38	58	39	20	32	25	14	25	4.1
22	5.0	22	12	29	48	55	19	27	83	13	21	3.3
23	5.1	26	13	25	745	35	17	24	394	14	13	2.7
24	5.0	27	13	144	288	30	19	22	365	12	10	4.3
25	5.2	23	12	3,460	383	30	32	20	244	41	7.8	6.7
26	6.2	19	12	424	249	30	44	19	179	176	6.8	8.4
27	7.5	28	12	124	119	32	27	18	3,240	33	8.3	9.9
28	7.7	32	15	71	79	30	19	16	2,100	18	6.4	6.3
29	7.8	17	170	69	107	206	16	16	1,090	15	7.6	4.4
30	7.9	14	81	250	---	175	16	16	895	13	6.0	3.5
31	7.6	---	34	145	---	60	---	15	---	12	5.0	---
TOTAL	423.3	2,358.9	1,000.7	6,692	13,040	4,780	3,146	11,889	12,980	4,925	318.7	155.1
MEAN	13.7	78.6	32.3	216	450	154	105	384	433	159	10.3	5.17
MAX	159	1,460	220	3,460	3,300	1,680	1,540	3,510	3,240	2,020	32	13
MIN	4.8	7.5	9.0	13	48	30	16	15	12	12	4.8	2.7
AC-FT	840	4,680	1,980	13,270	25,860	9,480	6,240	23,580	25,750	9,770	632	308
CFSM	0.10	0.56	0.23	1.53	3.19	1.09	0.74	2.72	3.07	1.13	0.07	0.04
IN.	0.11	0.62	0.26	1.77	3.44	1.26	0.83	3.14	3.42	1.30	0.08	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	69.3	106	163	191	183	159	131	131	151	36.0	16.0	30.1
MAX	1,342	920	626	1,026	629	640	844	662	869	493	191	288
(WY)	(1995)	(1999)	(1995)	(1998)	(1992)	(1990)	(1979)	(1969)	(1989)	(1989)	(1983)	(1996)
MIN	0.18	0.92	2.83	2.79	5.53	3.75	4.06	2.58	0.72	0.00	0.00	0.15
(WY)	(1966)	(1989)	(1971)	(1971)	(1971)	(1971)	(1971)	(1963)	(1971)	(1971)	(1971)	(1967)

SUMMARY STATISTICS

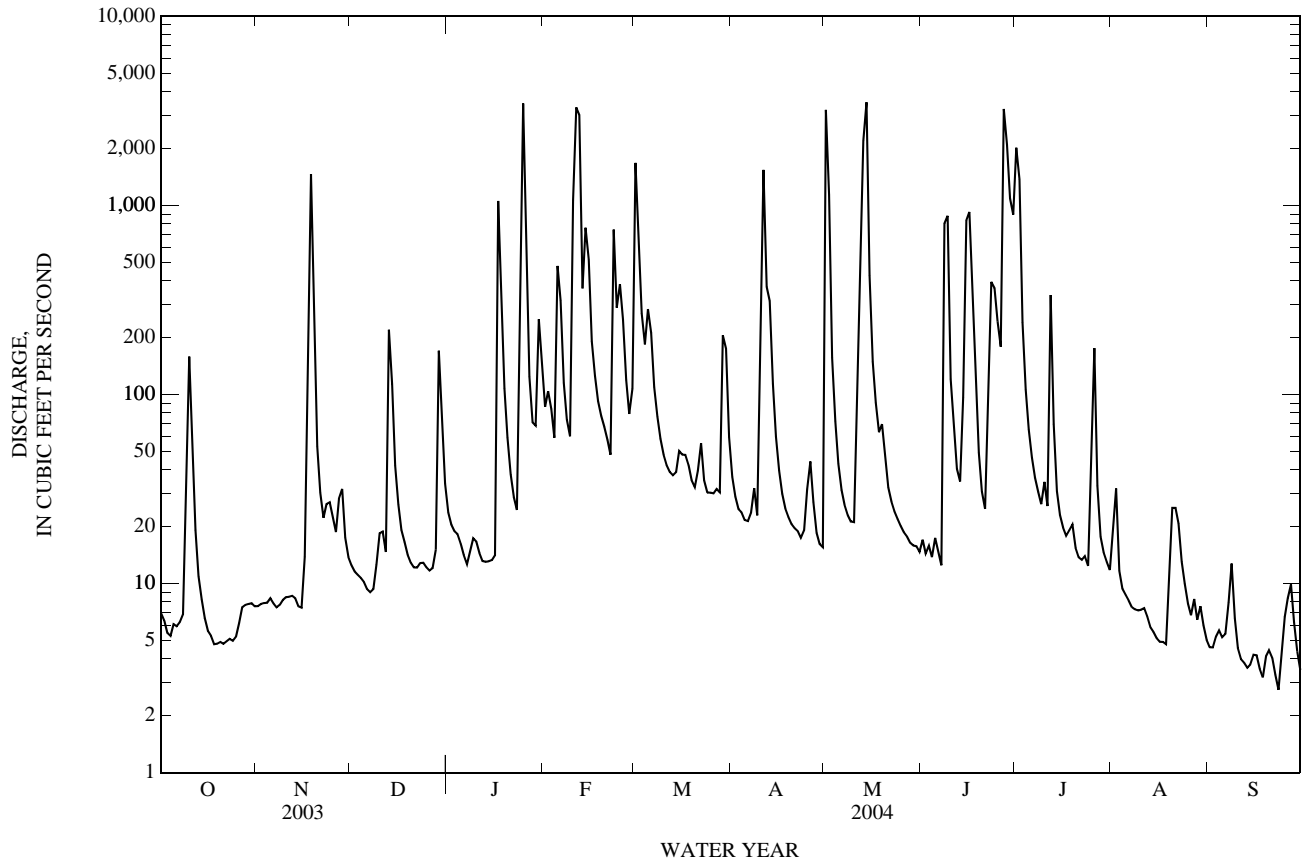
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1963 - 2004

ANNUAL TOTAL	25,124.0	61,708.7	
ANNUAL MEAN	68.8	169	115
HIGHEST ANNUAL MEAN			318
LOWEST ANNUAL MEAN			12.3
HIGHEST DAILY MEAN	4,410	Feb 21	30,100
LOWEST DAILY MEAN	1.6	Aug 9	0.00
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 4	0.00
MAXIMUM PEAK FLOW			50,900
MAXIMUM PEAK STAGE			30.49
ANNUAL RUNOFF (AC-FT)	49,830	122,400	83,190
ANNUAL RUNOFF (CFSM)	0.488	1.20	0.814
ANNUAL RUNOFF (INCHES)	6.63	16.28	11.07
10 PERCENT EXCEEDS	107	321	158
50 PERCENT EXCEEDS	15	22	14
90 PERCENT EXCEEDS	3.7	5.4	1.1

08066200 Long King Creek at Livingston, TX—Continued



TRINITY RIVER BASIN

08066250 Trinity River near Goodrich, TX

LOCATION.--Lat 30°34'19", long 94°56'55", Polk County, Hydrologic Unit 12030202, on left bank at downstream bridge on U.S. Highway 59, 0.2 mi downstream from Long King Creek, 3.0 mi southeast of Goodrich, 11.9 mile downstream from Livingston Dam, and at mile 117.3.

DRAINAGE AREA.--16,844 mi².

PERIOD OF RECORD.--Dec. 1965 to current year. Water-quality records: Chemical data: Mar. 1966 to Sept. 1973. Specific conductance: Oct. 1969 to Sept. 1973. Water temperature: Oct. 1969 to Sept. 1973.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Dec. 1965, at least 10% of contributing drainage area has been regulated.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1929, 52.0 ft in May 1942, from information by Texas Department of Transportation and by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,380	1,020	1,950	3,460	4,090	12,100	4,540	25,900	1,710	55,800	2,010	8,020
2	1,380	1,020	1,950	2,870	2,210	17,700	4,530	30,500	2,350	53,500	3,320	8,040
3	1,280	1,020	1,940	2,830	2,080	18,700	4,520	27,800	2,970	44,200	6,890	8,110
4	1,040	1,010	1,930	2,820	2,310	18,500	4,500	27,000	4,010	37,300	7,140	8,090
5	1,030	1,010	1,920	2,790	3,120	18,500	3,920	26,500	4,070	32,400	7,170	8,080
6	1,030	1,000	1,920	2,790	5,020	18,500	2,860	26,200	4,060	26,700	7,210	7,130
7	1,020	1,010	1,910	2,430	7,960	18,300	2,800	26,100	4,710	23,500	7,210	5,390
8	1,020	1,010	1,220	1,560	9,090	18,200	2,780	26,000	7,640	22,700	7,220	5,070
9	1,100	1,010	1,050	1,480	9,120	17,000	2,790	26,000	13,900	21,100	7,250	3,170
10	4,390	1,010	1,080	1,470	13,600	14,700	2,830	26,000	12,700	20,900	7,290	2,180
11	5,410	1,010	1,040	1,350	27,100	12,200	4,490	26,500	12,400	20,800	7,310	2,110
12	5,320	1,010	1,040	1,040	42,100	9,050	3,680	27,200	12,300	20,900	7,340	2,100
13	5,290	1,010	1,520	1,010	39,600	5,850	3,670	28,700	13,000	20,300	7,330	2,110
14	5,270	1,010	2,160	1,010	38,800	5,670	4,670	44,400	15,000	16,200	7,320	2,100
15	5,070	1,010	2,040	1,010	33,600	5,490	4,600	48,500	17,300	9,770	7,310	2,100
16	3,470	1,180	1,970	1,010	25,800	4,040	4,530	42,400	21,700	4,530	7,300	1,960
17	2,770	5,250	1,950	5,910	12,300	3,810	4,050	32,400	24,500	3,970	7,290	1,680
18	2,730	14,700	1,940	13,900	6,250	3,800	2,890	24,300	24,300	3,940	7,270	1,670
19	2,720	12,300	1,930	13,300	5,860	3,780	2,570	15,400	24,100	3,930	7,310	1,670
20	2,340	10,900	1,940	10,900	4,170	3,760	1,720	7,040	24,000	4,000	7,420	1,660
21	1,500	9,130	1,940	8,900	4,450	3,770	1,690	5,070	23,900	4,610	7,320	1,660
22	1,330	4,980	1,940	6,690	7,100	3,780	1,700	4,950	24,100	4,640	7,300	1,580
23	1,040	4,660	1,920	10,400	8,000	3,470	1,700	3,970	24,400	4,350	7,270	1,270
24	1,020	4,690	1,920	11,000	8,070	2,880	1,710	2,310	24,600	2,380	7,510	1,100
25	1,020	3,790	1,930	19,800	7,880	2,850	1,900	2,080	24,700	2,070	8,210	1,170
26	1,030	2,140	1,930	23,000	7,850	2,840	6,260	1,900	24,500	2,180	8,260	1,170
27	1,020	2,000	1,930	21,700	7,620	2,840	9,450	1,870	27,800	2,100	8,260	1,130
28	1,020	2,000	1,940	19,700	7,530	2,830	10,300	1,790	44,900	1,890	8,250	1,090
29	1,020	1,980	4,000	13,700	7,610	2,870	12,200	1,600	51,000	1,770	8,170	1,100
30	1,020	1,950	4,570	11,700	---	3,620	14,700	1,590	54,100	1,990	8,070	1,100
31	1,020	---	4,230	7,610	---	4,540	---	1,570	---	1,990	8,040	---
TOTAL	67,100	96,820	62,650	229,140	360,290	265,940	134,550	593,540	570,720	476,410	222,570	94,810
MEAN	2,165	3,227	2,021	7,392	12,420	8,579	4,485	19,150	19,020	15,370	7,180	3,160
MAX	5,410	14,700	4,570	23,000	42,100	18,700	14,700	48,500	54,100	55,800	8,260	8,110
MIN	1,020	1,000	1,040	1,010	2,080	2,830	1,690	1,570	1,710	1,770	2,010	1,090
AC-FT	133,100	192,000	124,300	454,500	714,600	527,500	266,900	1,177,000	1,132,000	945,000	441,500	188,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1966	3,546	25,630	(1974)	283	(1973)
1967	6,673	30,260	(1975)	449	(1971)
1968	9,085	30,270	(1992)	317	(1971)
1969	9,482	45,550	(1992)	321	(1971)
1970	10,290	38,660	(1992)	472	(1971)
1971	12,680	51,410	(2001)	724	(1981)
1972	11,220	30,750	(1977)	1,262	(1971)
1973	14,170	57,850	(1990)	1,294	(1971)
1974	12,040	32,120	(1973)	907	(1972)
1975	4,641	24,310	(1989)	1,043	(1971)
1976	2,283	7,180	(2004)	355	(1972)
1977	2,214	15,230	(1974)	455	(1971)

SUMMARY STATISTICS

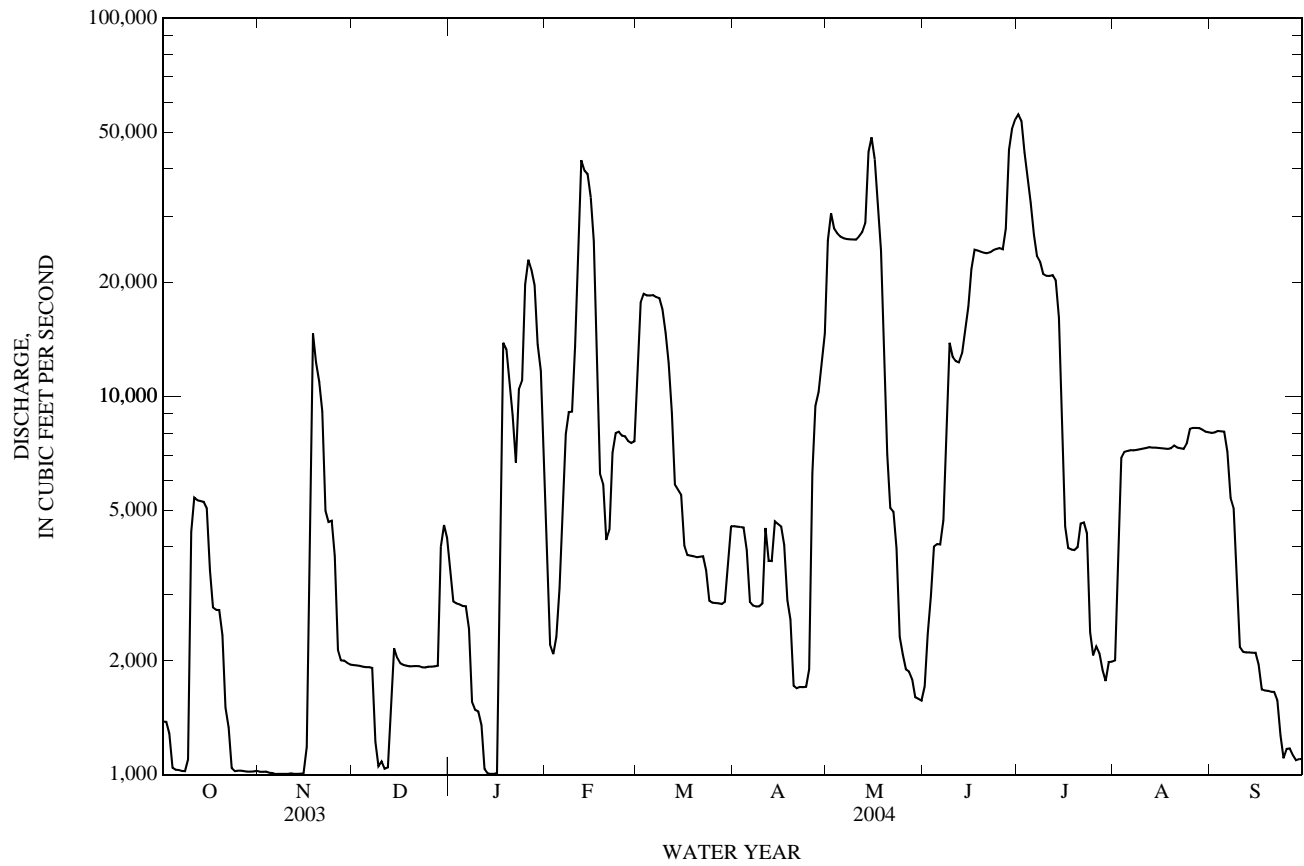
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	1,992,760	3,174,540	
ANNUAL MEAN	5,460	8,674	8,137
HIGHEST ANNUAL MEAN			18,310
LOWEST ANNUAL MEAN			746
HIGHEST DAILY MEAN	56,400	55,800	120,000
LOWEST DAILY MEAN	1,000	1,000	191
ANNUAL SEVEN-DAY MINIMUM	1,010	1,010	240
MAXIMUM PEAK FLOW		56,800	125,000
MAXIMUM PEAK STAGE		35.33	48.97
ANNUAL RUNOFF (AC-FT)	3,953,000	6,297,000	5,895,000
10 PERCENT EXCEEDS	11,100	24,500	23,500
50 PERCENT EXCEEDS	2,340	4,370	2,810
90 PERCENT EXCEEDS	1,180	1,050	795

08066250 Trinity River near Goodrich, TX—Continued



08066300 Menard Creek near Rye, TX

LOCATION.--Lat 30°28'53", long 94°46'47", Liberty County, Hydrologic Unit 12030202, on left bank 20 ft downstream from bridge on State Highway 146, 2.3 mi northwest of Rye, and about 6.0 mi upstream from mouth.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--Dec. 1965 to current year. Water-quality records: Chemical data: Aug. 1950 to Aug. 1994.

REVISED RECORDS.--WRD-TX-99-2: 1999 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.32 ft above NGVD of 1929. Sept. 1974 to Aug. 1976, wire-weight gage read twice daily. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since installation of gage in water year 1966, at least 10% of contributing drainage area has been regulated. No known diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1929 reached a stage of about 39.4 ft, from information by the Texas Department of Transportation. Flood in Sept. 1961 reached a stage of about 34.0 ft, from information by local resident. Flood of May 1929 may have been equalled or exceeded by other floods during the period 1929-65.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	29	74	92	302	280	164	384	70	540	52	30
2	28	28	70	79	259	322	123	1,080	68	283	50	30
3	26	28	68	74	203	472	109	2,800	67	277	48	30
4	26	28	66	71	155	597	102	1,320	65	303	45	36
5	25	28	64	68	529	424	96	750	63	272	45	39
6	26	27	61	64	663	356	99	310	59	136	42	34
7	26	27	59	60	446	319	113	176	58	107	39	33
8	26	28	58	64	308	271	116	137	100	94	38	30
9	42	27	65	73	186	215	108	119	183	85	37	28
10	167	27	76	81	553	182	116	107	238	78	36	28
11	156	27	90	76	1,170	164	499	165	415	76	36	28
12	130	27	82	70	1,650	153	415	510	298	78	35	27
13	86	26	111	65	1,730	145	371	488	120	130	33	26
14	60	25	121	62	1,510	146	314	948	97	120	34	26
15	49	26	133	61	1,130	157	170	1,340	100	80	33	25
16	43	29	112	63	767	169	106	1,320	334	68	32	25
17	39	137	86	727	659	172	80	834	371	61	31	25
18	37	1,190	75	637	446	154	67	414	339	58	31	25
19	36	974	68	631	331	142	59	261	264	55	31	23
20	34	885	64	587	291	135	54	191	136	52	35	23
21	33	712	62	235	260	144	51	152	102	50	38	23
22	31	231	61	138	234	172	48	130	90	51	47	22
23	30	152	63	110	290	189	46	114	194	51	55	22
24	30	158	62	113	311	155	47	102	651	49	47	23
25	29	161	61	1,170	322	132	74	94	918	48	48	25
26	30	163	59	958	314	126	149	87	577	50	43	24
27	32	120	58	627	301	129	141	81	428	50	37	24
28	32	102	59	699	258	126	98	77	430	72	35	23
29	32	88	94	316	219	120	65	74	479	61	34	22
30	31	79	117	354	---	127	53	72	795	55	33	23
31	30	---	109	329	---	190	---	69	---	54	32	---
TOTAL	1,431	5,589	2,408	8,754	15,797	6,585	4,053	14,706	8,109	3,544	1,212	802
MEAN	46.2	186	77.7	282	545	212	135	474	270	114	39.1	26.7
MAX	167	1,190	133	1,170	1,730	597	499	2,800	918	540	55	39
MIN	25	25	58	60	155	120	46	69	58	48	31	22
AC-FT	2,840	11,090	4,780	17,360	31,330	13,060	8,040	29,170	16,080	7,030	2,400	1,590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	77.7	106	166	212	226	183	172	180	147	62.0	43.0	48.8
MAX	1,092	595	503	777	727	528	977	757	788	464	354	192
(WY)	(1995)	(1999)	(2002)	(1974)	(1992)	(1997)	(1979)	(1983)	(1986)	(1989)	(1983)	(1983)
MIN	3.42	3.55	8.05	14.6	14.0	13.5	9.77	20.4	8.72	4.52	5.47	4.43
(WY)	(1968)	(1968)	(1968)	(1971)	(1971)	(1971)	(1971)	(2002)	(1971)	(1971)	(1967)	(1967)

SUMMARY STATISTICS

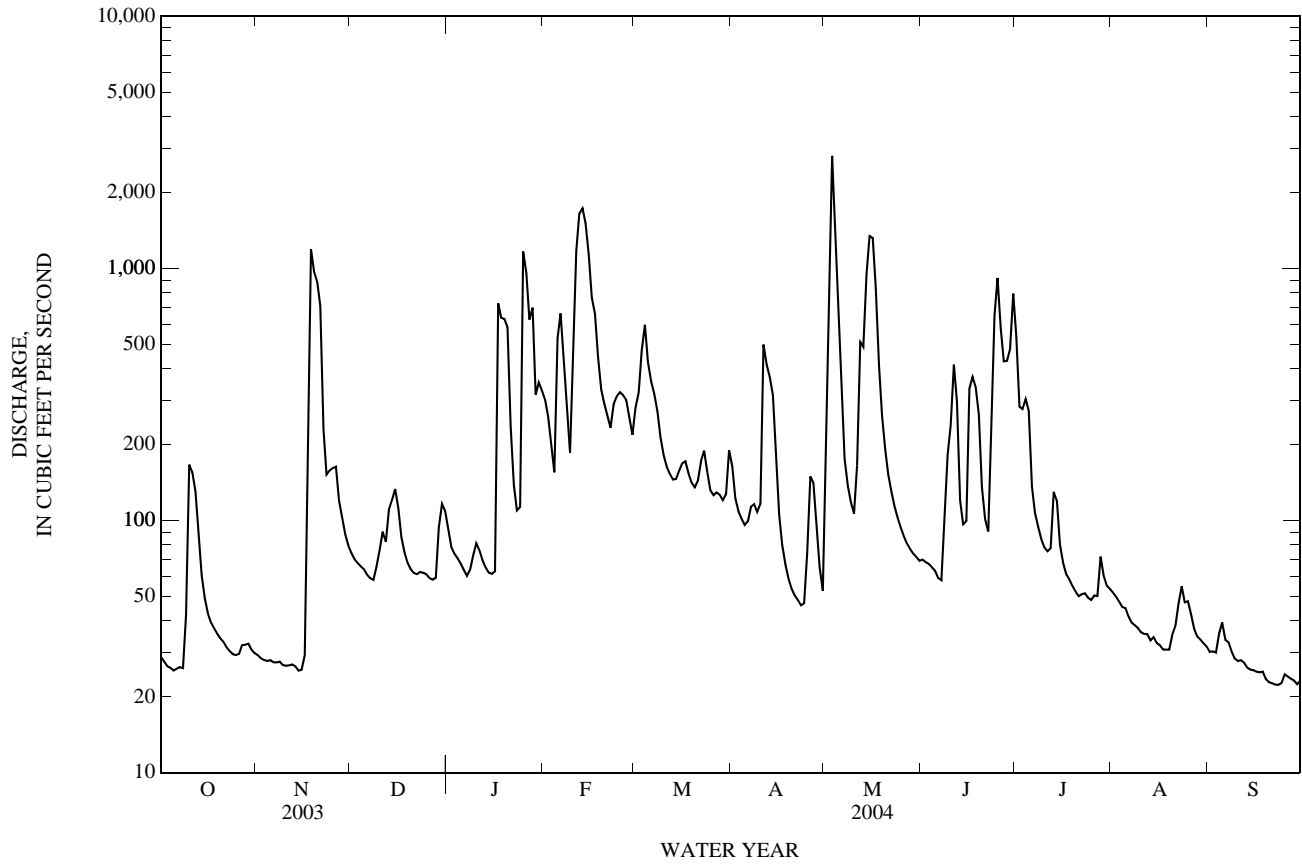
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	41,610	72,990	
ANNUAL MEAN	114	199	
HIGHEST ANNUAL MEAN			136
LOWEST ANNUAL MEAN			279
HIGHEST DAILY MEAN	1,350	Feb 24	12,000
LOWEST DAILY MEAN	13	Aug 8	2.6
ANNUAL SEVEN-DAY MINIMUM	14	Aug 4	2.9
MAXIMUM PEAK FLOW		4,290	May 3
MAXIMUM PEAK STAGE		24.03	May 3
ANNUAL RUNOFF (AC-FT)	82,530	144,800	98,600
10 PERCENT EXCEEDS	224	516	292
50 PERCENT EXCEEDS	57	81	49
90 PERCENT EXCEEDS	22	28	15

08066300 Menard Creek near Rye, TX—Continued



08066500 Trinity River at Romayor, TX

LOCATION.--Lat 30°25'30", long 94°51'02", Liberty County, Hydrologic Unit 12030202, near right bank at downstream side of bridge on State Highway 787, 1.9 mi south of Romayor, 1.9 mi downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 3.7 mi downstream from Big Creek, and at mile 94.3.

DRAINAGE AREA.--17,186 mi².

PERIOD OF RECORD.--May 1924 to current year. Monthly discharge only for some periods, published in WSP 1312. Water-quality records: Chemical data: Oct. 1941 to Nov. 1949, Feb. 1950 to Sept. 1951, Oct. 1953 to Sept. 1995. Biochemical data: Feb. 1968 to Sept. 1995. Pesticide data: Feb. 1968 to July 1981, Aug. 1983 to Sept. 1995. Sediment data: Mar. 1959 to Sept. 1995. Suspended sediment data: Oct. 1954 to Sept. 1955, Oct. 1968 to Sept. 1971. Specific conductance: Oct. 1941 to Sept. 1942, Jan. 1944 to Sept. 1951, Oct. 1953 to Sept. 1994. Water temperature: Oct. 1941 to Sept. 1950, Oct. 1953 to Sept. 1994.

REVISED RECORDS.--WSP 1392: 1932, 1935. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M, m).

GAGE.--Water-stage recorder. Datum of gage is 25.92 ft above NGVD of 1929. Prior to Oct. 1, 1943, nonrecording gage at datum 63.57 ft higher at railroad bridge 1.9 mi upstream. Oct. 1, 1943, to Dec. 31, 1988, water-stage recorder and nonrecording gage (Sept. 15, 1975, to June 16, 1977) at present site and at datum 10.00 ft higher than current datum. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,250	953	2,220	3,680	5,610	10,800	4,500	23,400	1,880	61,400	2,770	9,140
2	e2,240	944	2,200	2,920	2,900	16,800	4,430	36,700	2,340	61,400	3,110	9,080
3	2,210	946	2,190	2,740	2,320	18,800	4,390	34,500	2,690	54,800	7,130	9,150
4	e1,980	946	2,180	2,710	2,220	19,100	4,360	32,100	3,910	46,600	8,410	9,140
5	e1,880	944	2,160	2,660	3,300	19,300	4,170	30,200	4,150	39,600	8,550	9,120
6	e1,870	941	2,140	2,620	4,740	19,500	2,950	29,300	4,130	32,100	8,600	8,710
7	1,870	931	2,130	2,530	8,090	19,600	2,720	28,800	4,310	27,400	8,600	6,630
8	1,870	931	1,850	1,750	10,000	19,600	2,690	28,600	6,540	25,600	8,590	6,200
9	1,960	937	1,500	1,530	10,100	19,200	2,670	28,500	14,400	23,900	8,610	4,850
10	4,030	935	1,510	1,500	13,000	16,600	2,660	28,400	14,500	23,200	8,660	3,320
11	6,470	936	1,470	1,470	28,000	14,200	4,110	28,900	13,900	23,100	8,700	3,050
12	6,400	940	1,470	1,230	39,900	11,200	4,370	30,800	13,700	23,100	8,750	3,010
13	6,200	929	1,660	1,130	38,500	6,800	3,740	31,300	13,700	23,000	8,740	2,980
14	6,030	920	2,320	1,110	37,200	5,910	4,630	46,300	15,800	19,600	8,740	2,910
15	5,850	931	2,340	1,100	34,300	5,870	4,720	55,600	17,600	13,200	8,730	2,900
16	4,480	973	2,270	1,100	28,300	4,680	4,510	52,300	22,700	6,980	8,730	2,860
17	3,210	3,150	2,180	3,450	16,900	4,060	4,310	41,600	27,100	5,050	8,730	2,590
18	2,950	16,700	2,140	14,800	8,810	3,980	3,040	31,200	27,400	4,890	8,730	2,530
19	2,840	17,500	2,110	15,600	6,620	3,920	2,650	20,500	27,000	4,820	8,760	2,540
20	2,650	14,700	2,090	13,700	5,820	3,880	1,890	10,700	e26,700	4,800	8,960	2,500
21	1,740	12,900	2,070	10,600	4,240	3,940	1,580	6,080	26,400	5,190	8,940	2,440
22	1,420	7,220	2,060	7,220	6,640	3,900	1,600	5,430	26,300	5,520	8,890	2,430
23	1,090	5,360	2,080	10,100	8,460	3,790	1,580	4,970	26,800	5,380	8,890	2,220
24	967	5,300	2,040	11,900	9,100	3,090	1,590	2,920	27,600	3,860	8,890	2,050
25	964	4,800	2,030	20,100	8,730	2,910	1,640	2,480	28,400	2,900	9,740	1,980
26	965	2,920	2,020	28,700	8,710	2,870	4,180	2,220	27,800	2,960	9,880	2,040
27	964	2,440	2,020	26,600	8,400	2,840	9,420	2,160	28,800	3,010	9,830	2,030
28	965	2,350	2,020	25,000	8,180	2,840	10,500	2,120	47,100	2,830	9,800	1,970
29	956	2,280	3,170	17,800	8,090	2,840	12,200	1,930	55,700	2,550	9,430	1,950
30	955	2,250	4,560	14,100	---	3,170	14,400	1,880	59,500	2,680	9,570	1,970
31	956	---	4,440	10,200	---	4,350	---	1,860	---	2,750	9,370	---
TOTAL	81,182	114,907	68,640	261,650	377,180	280,340	132,200	683,750	618,850	564,170	263,830	124,290
MEAN	2,619	3,830	2,214	8,440	13,010	9,043	4,407	22,060	20,630	18,200	8,511	4,143
MAX	6,470	17,500	4,560	28,700	39,900	19,600	14,400	55,600	59,500	61,400	9,880	9,150
MIN	955	920	1,470	1,100	2,220	2,840	1,580	1,860	1,880	2,550	2,770	1,950
AC-FT	161,000	227,900	136,100	519,000	748,100	556,100	262,200	1,356,000	1,227,000	1,119,000	523,300	246,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2004, BY WATER YEAR (WY)

MEAN	3,388	5,670	8,110	9,526	10,160	11,890	10,860	15,070	11,540	4,589	1,954	2,152
MAX	25,380	31,160	43,240	51,740	44,510	53,570	65,710	62,000	45,120	28,480	10,140	14,850
(WY)	(1974)	(1999)	(1941)	(1992)	(1992)	(2001)	(1945)	(1957)	(1957)	(1941)	(1957)	(1974)
MIN	181	274	351	347	450	528	415	1,285	455	201	128	165
(WY)	(1957)	(1956)	(1971)	(1971)	(1971)	(1925)	(1925)	(1937)	(1925)	(1956)	(1956)	(1956)

SUMMARY STATISTICS

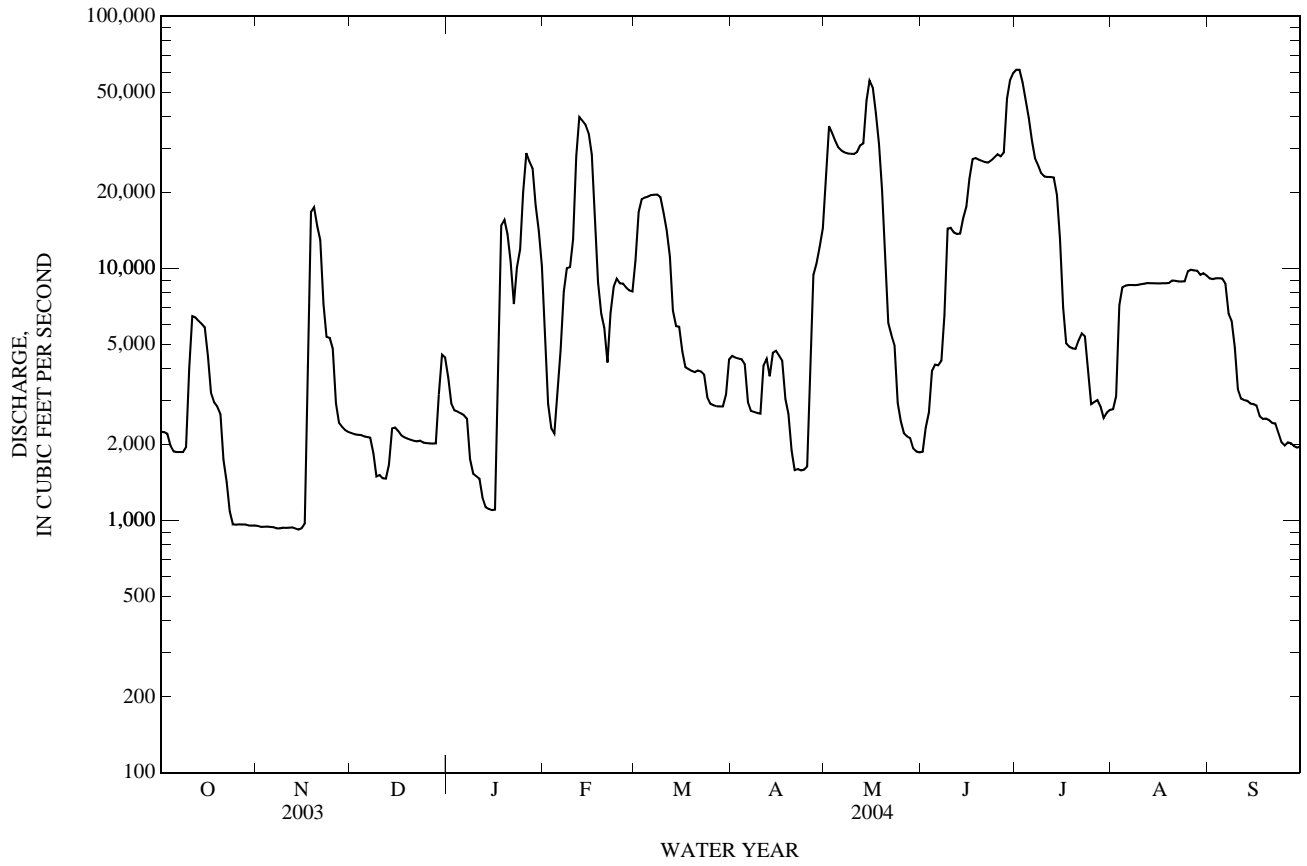
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1924 - 2004

ANNUAL TOTAL	2,264,239	3,570,989	
ANNUAL MEAN	6,203	9,757	7,906
HIGHEST ANNUAL MEAN			20,630
LOWEST ANNUAL MEAN			730
HIGHEST DAILY MEAN	67,200	Feb 24	117,000
LOWEST DAILY MEAN	920	Nov 14	104
ANNUAL SEVEN-DAY MINIMUM	933	Nov 8	106
MAXIMUM PEAK FLOW			122,000
MAXIMUM PEAK STAGE			45.80
ANNUAL RUNOFF (AC-FT)	4,491,000	7,083,000	5,727,000
10 PERCENT EXCEEDS	13,900	27,700	22,600
50 PERCENT EXCEEDS	2,350	4,490	2,740
90 PERCENT EXCEEDS	1,350	1,510	585

08066500 Trinity River at Romayor, TX—Continued



08067000 Trinity River at Liberty, TX

LOCATION.--Lat 30°03'27", long 94°49'05", Liberty County, Hydrologic Unit 12030203, at downstream side of downstream bridge on U.S. Highway 90 in Liberty, 450 ft downstream from Texas and New Orleans Railroad Co. bridge, and at mile 40.3.

DRAINAGE AREA.--17,468 mi².

PERIOD OF RECORD.--Oct. 1938 to Sept. 1940 (gage heights, discharge measurements, and some records of daily discharge), Oct. 1940 to current year (daily mean discharges above 10,000 ft³/s). Gage-height records collected in this vicinity since 1903 are contained in reports of the National Weather Service. Water-quality records: Chemical data: Oct. 1970 to Sept. 1972. Biochemical data: Oct. 1970 to Sept. 1972. Pesticide data: May 1971 to Sept. 1972.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2.22 ft below NGVD of 1929; unadjusted for land-surface subsidence. Prior to Mar. 13, 1973, nonrecording gage at site at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in water year 1941, at least 10% of contributing drainage area has been regulated. Many diversions above station for municipal supplies, industrial uses, and irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s, Oct. 12, 1994, gage height, 31.00 ft; minimum not determined (affected by tides); minimum gage height observed, 2.32 ft, Nov. 24, 1970. Maximum gage height since at least 1903, 31.00 ft, Oct. 21, 1994 (at 0500 hours).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 8-11, 1922, reached a stage of 28.6 ft, present datum, from observations by the National Weather Service at nonrecording gage on railroad bridge upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,300 ft³/s, July 3, gage height, 28.21 ft; minimum discharge not determined (affected by tides); minimum gage height, 5.26 ft, Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	12,800	10,400	---	14,900	---	48,600	---	---
2	---	---	---	---	10,500	13,000	---	26,900	---	51,400	---	---
3	---	---	---	---	---	18,300	---	33,000	---	53,100	---	---
4	---	---	---	---	---	20,600	---	33,400	---	52,600	---	---
5	---	---	---	---	---	20,900	---	32,700	---	49,100	---	---
6	---	---	---	---	---	20,900	---	32,100	---	44,600	---	---
7	---	---	---	---	---	20,900	---	31,700	---	39,400	---	---
8	---	---	---	---	10,500	20,800	---	31,300	---	35,100	---	---
9	---	---	---	---	11,300	20,600	---	31,000	11,000	32,500	---	---
10	---	---	---	---	11,600	19,500	---	30,800	13,700	29,900	---	---
11	---	---	---	---	16,400	17,500	---	30,800	14,200	28,200	---	---
12	---	---	---	---	28,600	15,300	---	32,300	13,800	27,100	---	---
13	---	---	---	---	35,700	12,500	---	33,500	13,500	26,300	---	---
14	---	---	---	---	39,700	10,400	---	36,600	14,500	25,100	---	---
15	---	---	---	---	42,300	---	---	41,500	16,200	21,000	---	---
16	---	---	---	---	40,800	---	---	44,800	18,600	15,300	---	---
17	---	---	---	---	35,900	---	---	45,400	24,400	11,200	---	---
18	---	12,900	---	10,700	26,100	---	---	42,400	27,500	---	---	---
19	---	19,800	---	13,700	17,900	---	---	37,100	28,100	---	---	---
20	---	19,700	---	14,900	14,100	---	---	28,600	28,100	---	---	---
21	---	17,100	---	13,400	11,500	---	---	19,200	28,100	---	---	---
22	---	14,600	---	11,300	---	---	---	14,100	28,200	---	---	---
23	---	11,100	---	10,100	10,400	---	---	11,600	28,800	---	---	---
24	---	---	---	11,000	11,100	---	---	10,400	31,100	---	---	---
25	---	---	---	13,400	11,200	---	---	---	34,000	---	---	---
26	---	---	---	21,200	10,900	---	---	---	34,800	---	---	---
27	---	---	---	24,900	10,600	---	---	---	34,700	---	---	---
28	---	---	---	24,600	10,200	---	10,200	---	36,600	---	---	---
29	---	---	---	23,000	10,000	---	10,900	---	41,600	---	---	---
30	---	---	---	18,900	---	---	12,200	---	45,000	---	---	---
31	---	---	---	16,100	---	---	---	---	---	---	---	---

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TRINITY RIVER BASIN

08067070 CWA Canal near Dayton, TX

LOCATION.--Lat 29°57'40", long 94°48'36", Liberty County, Hydrologic Unit 12030203, at flume on left bank of Coastal Industrial Water Authority canal, 1,000 ft west of the Trinity River, 2.0 mi east of Farm Road 1409, and 7.4 mi southeast of Dayton.

PERIOD OF RECORD.--Apr. 1981 to current year. Prior to Oct. 1990, published as "CIWA Canal near Dayton".

GAGE.--Water-stage recorder. Datum of gage not determined. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. There are no known diversions between pumping plant and the gage. Water is pumped from the Trinity River for industrial and municipal use in the area.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	864	714	694	705	658	736	723	694	826	776	820	850
2	840	648	702	679	643	764	727	662	854	808	819	805
3	832	649	706	676	687	731	734	664	893	817	850	813
4	790	651	701	676	690	735	728	668	878	822	915	796
5	758	690	697	672	712	718	728	709	848	826	946	721
6	832	691	694	692	746	718	729	723	820	826	967	722
7	774	688	699	707	748	718	709	764	766	825	965	799
8	797	645	653	685	738	719	712	760	702	824	950	824
9	697	668	634	670	701	718	712	754	711	818	952	844
10	606	669	622	662	641	719	713	753	755	779	952	893
11	615	666	691	666	627	718	671	734	743	773	952	925
12	683	662	709	666	601	711	684	689	780	741	952	922
13	755	670	714	689	631	702	701	631	830	866	981	924
14	811	687	708	694	649	689	697	659	770	898	984	928
15	806	707	649	714	688	681	701	740	720	904	986	894
16	629	705	665	715	704	679	719	764	751	937	985	883
17	845	647	656	656	708	676	701	763	738	935	986	876
18	796	692	689	695	720	669	698	773	746	934	972	880
19	794	697	699	707	720	727	692	806	748	945	925	875
20	794	736	704	663	753	708	685	823	753	939	934	859
21	779	724	737	652	780	705	707	823	800	913	922	852
22	724	704	744	650	715	703	716	834	800	895	861	874
23	662	692	742	641	664	705	717	843	794	853	839	884
24	742	694	733	646	654	707	717	882	765	812	839	879
25	796	690	681	679	688	713	735	831	616	807	838	880
26	698	691	619	721	737	705	750	846	626	880	843	879
27	576	683	596	728	755	704	763	860	701	922	903	878
28	526	690	638	728	732	703	753	887	737	885	924	875
29	810	677	664	728	707	699	733	925	739	872	885	871
30	789	668	699	702	---	704	712	925	738	834	872	883
31	763	---	724	668	---	717	---	843	---	818	873	---
TOTAL	23,183	20,495	21,263	21,232	20,197	22,001	21,467	24,032	22,948	26,484	28,392	25,788
MEAN	748	683	686	685	696	710	716	775	765	854	916	860
MAX	864	736	744	728	780	764	763	925	893	945	986	928
MIN	526	645	596	641	601	669	671	631	616	741	819	721
AC-FT	45,980	40,650	42,180	42,110	40,060	43,640	42,580	47,670	45,520	52,530	56,320	51,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	518	491	474	479	484	501	528	560	588	605	589	559
MAX	757	734	718	710	716	729	779	831	973	888	916	860
(WY)	(2000)	(2000)	(2000)	(1999)	(1999)	(2002)	(2002)	(1998)	(1998)	(1998)	(2004)	(2004)
MIN	226	236	219	233	226	235	275	273	303	293	237	251
(WY)	(1985)	(1985)	(1983)	(1983)	(1983)	(1985)	(1982)	(1986)	(1983)	(1983)	(1983)	(1983)

SUMMARY STATISTICS

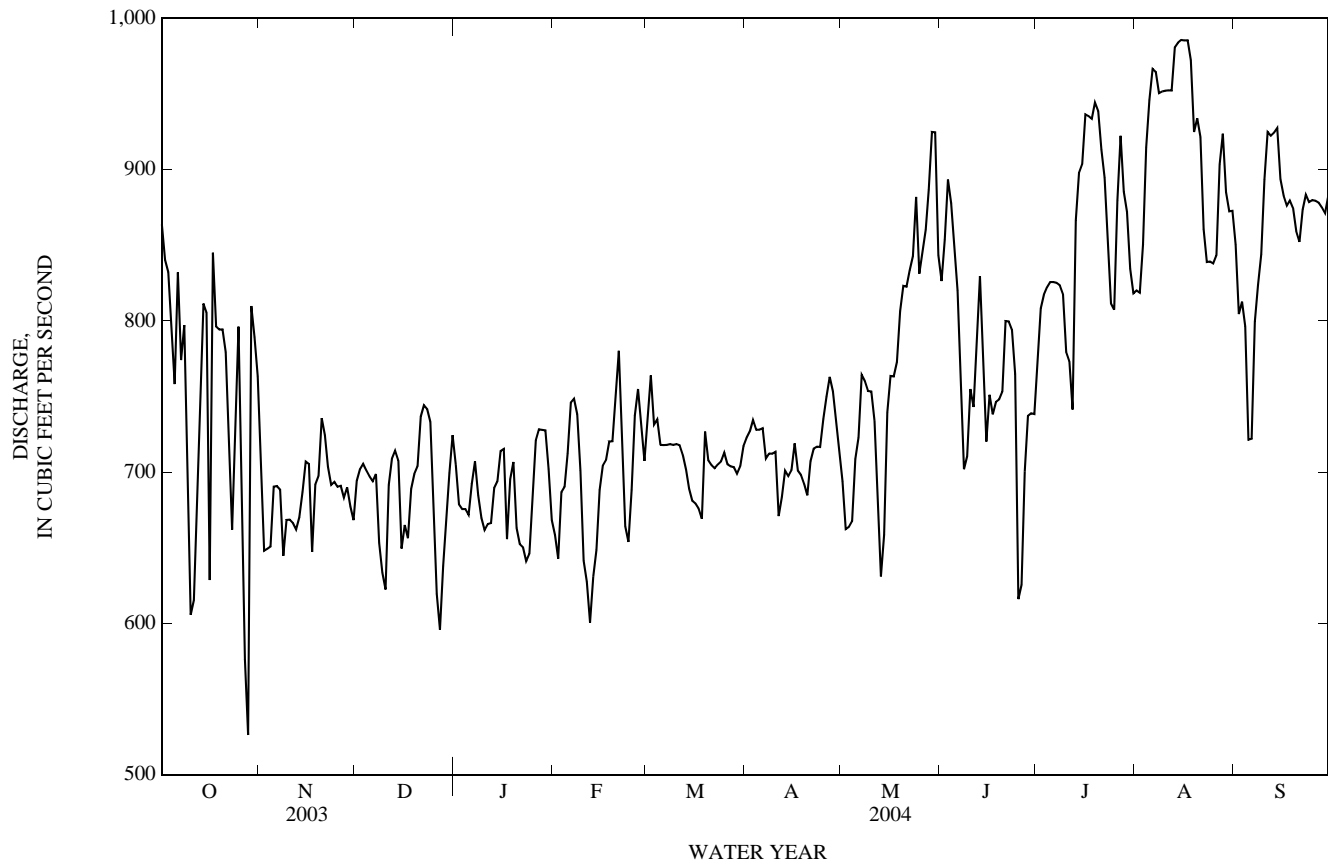
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1981 - 2004

ANNUAL TOTAL	264,392	277,482	
ANNUAL MEAN	724	758	536
HIGHEST ANNUAL MEAN			764
LOWEST ANNUAL MEAN			259
HIGHEST DAILY MEAN	940	May 24	986
LOWEST DAILY MEAN	432	Apr 23	526
ANNUAL SEVEN-DAY MINIMUM	467	Apr 22	648
MAXIMUM PEAK FLOW			1,080
MAXIMUM PEAK STAGE			3.09
ANNUAL RUNOFF (AC-FT)	524,400	550,400	388,600
10 PERCENT EXCEEDS	826	894	783
50 PERCENT EXCEEDS	724	728	557
90 PERCENT EXCEEDS	631	662	261

08067070 CWA Canal near Dayton, TX—Continued



08067118 Lake Charlotte near Anahuac, TX

LOCATION.--Lat 29°52'02", long 94°42'53", Chambers County, Hydrologic Unit 12030203, on east side of Lake Charlotte, which is connected to the Trinity River by a small channel, 1.0 mi west of State Highway 563, 1.9 mi north of Interstate Highway 10, and 2.7 mi northeast of Wallisville.

DRAINAGE AREA.--55.0 mi².

WATER-STAGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 5.81 ft below NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Lake Charlotte is a shallow natural lake within the Trinity River delta. Dec. 1991 to Nov. 9, 1992, the lowest stilling well intake was at gage height of 7.3 ft. Thereafter it was at gage height of 6.7 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.9 ft, Oct. 22, 1994, at 1345 hours.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 12.89 ft, July 3; minimum elevation not determined.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.49	7.61	6.91	7.40	10.83	8.86	6.94	9.11	7.62	12.48	6.87	7.88
2	7.41	7.76	<6.82	7.39	10.32	8.86	7.14	9.83	7.40	12.73	6.91	7.81
3	7.51	7.91	6.84	7.24	9.54	9.21	7.19	10.41	7.32	12.86	6.89	7.83
4	7.84	7.98	6.88	7.20	8.84	9.83	7.07	10.92	7.23	12.89	6.86	7.91
5	8.00	8.01	<6.82	6.98	8.70	10.37	7.03	11.28	7.04	12.89	7.15	7.99
6	8.06	8.02	<6.82	<6.82	8.45	10.56	7.45	11.52	7.15	12.86	7.15	8.03
7	8.06	8.01	<6.82	<6.82	8.16	10.62	7.60	11.66	7.29	12.76	7.10	7.90
8	8.06	7.96	<6.82	7.01	8.12	10.65	7.27	11.73	7.55	12.59	7.33	7.54
9	8.17	7.94	7.03	7.20	8.48	---	6.92	11.78	7.91	12.39	7.44	7.20
10	8.85	7.93	6.91	<6.82	8.82	10.70	6.97	11.79	8.39	12.15	7.51	7.17
11	8.79	7.96	<6.82	<6.82	9.19	10.71	7.02	11.84	8.98	11.95	7.49	6.93
12	8.70	8.00	<6.82	<6.82	9.89	10.60	6.95	11.96	9.37	11.78	7.39	6.89
13	8.71	7.92	7.23	<6.82	10.57	10.29	6.90	12.06	9.51	11.63	7.23	7.08
14	8.67	7.81	6.91	<6.82	11.25	9.80	6.88	12.28	9.55	11.52	7.50	7.45
15	8.39	7.87	7.01	<6.82	11.71	9.25	6.88	12.23	9.72	11.41	7.58	7.77
16	8.40	7.99	7.30	<6.82	11.99	8.75	7.03	12.32	10.13	11.18	7.64	7.80
17	8.33	8.14	<6.82	7.53	12.14	8.34	7.17	12.57	10.60	10.60	7.67	7.87
18	7.92	8.71	<6.82	7.77	12.08	8.03	7.29	12.70	10.91	9.71	7.68	7.73
19	7.65	9.32	<6.82	7.93	11.79	7.74	7.41	12.69	11.06	8.89	7.75	7.38
20	7.59	9.92	<6.82	8.45	11.35	7.51	7.25	12.53	11.19	8.28	7.94	7.26
21	7.43	10.42	<6.82	9.00	10.71	7.23	7.36	12.19	11.31	7.81	7.97	7.56
22	7.14	10.62	<6.82	9.23	9.94	6.98	7.46	11.70	11.45	7.47	7.87	7.79
23	6.83	10.46	6.94	9.00	9.42	7.36	7.52	11.10	11.65	7.24	7.89	8.08
24	6.84	9.80	<6.82	8.75	9.23	7.68	7.59	10.40	11.81	7.14	7.95	7.88
25	7.13	9.15	<6.82	9.06	9.25	7.77	7.27	9.74	12.23	6.98	7.98	7.73
26	7.09	8.85	6.90	9.52	9.02	7.76	6.96	9.10	12.36	<6.82	8.01	7.75
27	<6.82	8.66	7.07	10.04	8.72	7.72	6.87	8.54	12.32	<6.82	8.07	7.66
28	6.84	8.12	7.17	10.48	8.66	7.81	7.23	8.08	12.29	<6.82	8.04	7.49
29	7.00	7.46	6.93	10.86	8.73	7.63	7.90	7.75	12.22	6.90	7.95	7.29
30	7.20	7.15	<6.82	11.12	---	7.12	8.33	7.78	12.27	6.95	7.90	6.94
31	7.49	---	7.03	11.06	---	6.96	---	7.92	---	6.89	7.89	---
MAX	8.85	10.62	7.30	11.12	12.14	---	8.33	12.70	12.36	12.89	8.07	8.08

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08067118 Lake Charlotte near Anahuac, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Dec. 1991 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1994 to current year.

WATER TEMPERATURE: Dec. 1991 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1995.

REMARKS.--Records good. Interruption in the record during periods when the water level was below the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,560 microsiemens/cm, Nov. 17, 1997; minimum recorded, 46 microsiemens/cm, Oct. 20, 1994.

WATER TEMPERATURES: Maximum, 40.5°C, July 13, 2001; minimum, 1.6°C, Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 680 microsiemens/cm, Dec. 30; minimum, 230 microsiemens/cm, July 30.

WATER TEMPERATURE: Maximum, 37.5°C, Aug. 4; minimum, 6.4°C, Dec. 17.

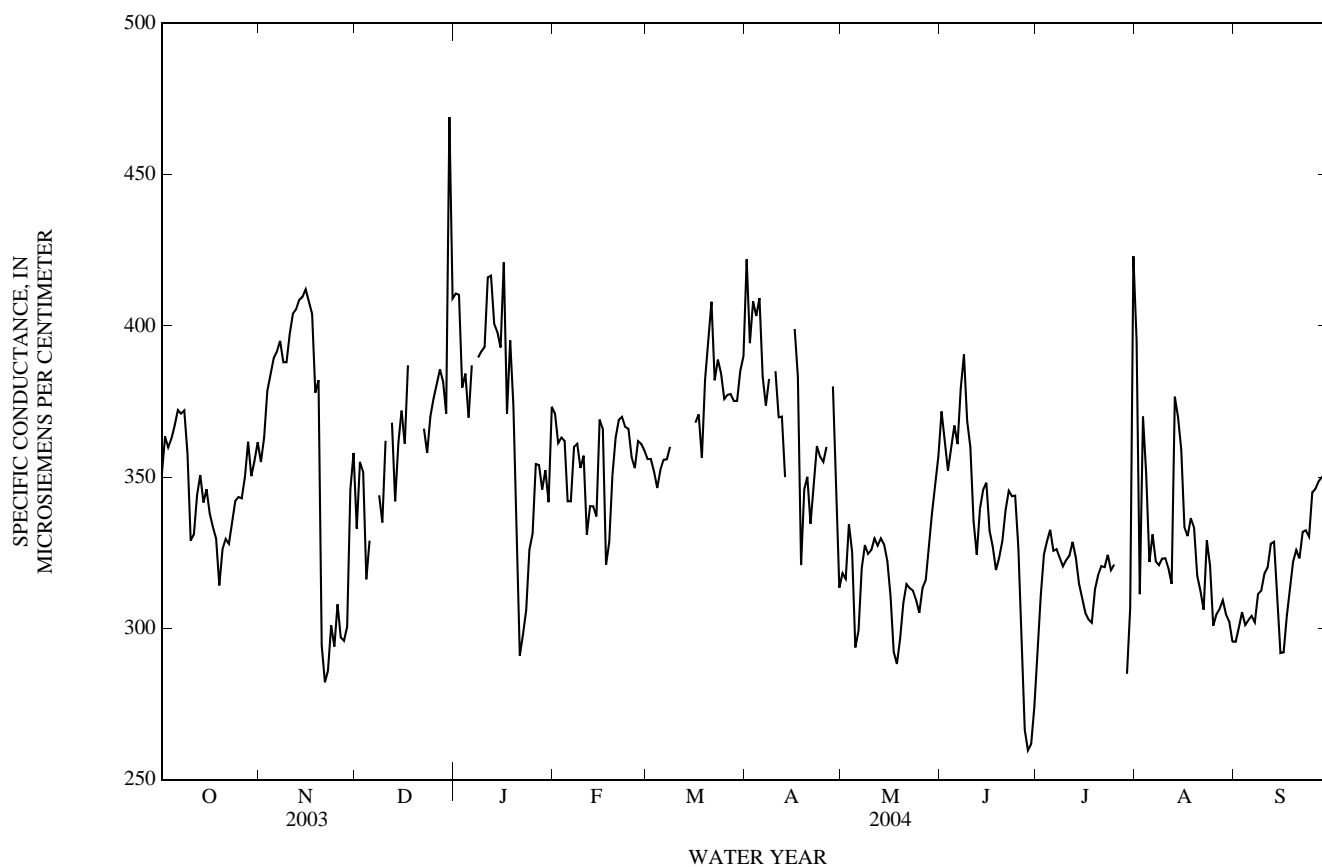
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	362	342	351	365	347	355	363	315	333	488	372	411
2	368	359	363	392	355	363	369	329	355	439	383	410
3	367	353	360	393	359	378	369	336	352	402	358	380
4	368	358	363	389	375	384	352	307	316	397	363	384
5	369	363	367	396	385	389	363	312	329	384	356	370
6	381	369	372	398	387	391	---	---	---	398	362	387
7	378	364	371	399	390	395	---	---	---	---	---	---
8	377	369	372	395	381	388	387	322	344	411	381	390
9	374	328	358	394	382	388	362	319	335	456	370	392
10	339	321	329	402	392	397	371	345	362	442	374	393
11	337	318	331	410	398	404	---	---	---	426	408	416
12	356	333	344	412	401	405	393	337	368	428	407	417
13	359	332	351	413	402	409	369	318	342	413	391	401
14	351	330	342	412	406	410	402	353	361	405	390	398
15	353	340	346	419	408	412	407	348	372	401	387	393
16	347	331	338	414	401	408	407	329	361	456	380	421
17	341	326	334	410	380	404	405	347	387	456	340	371
18	340	317	330	382	375	378	---	---	---	476	348	395
19	320	303	314	397	350	382	---	---	---	421	350	374
20	331	319	326	363	257	294	---	---	---	369	293	330
21	335	324	330	308	265	282	---	---	---	305	261	291
22	335	322	328	324	268	286	376	343	366	302	294	298
23	344	327	335	319	285	301	377	345	358	314	299	306
24	350	332	342	301	281	294	377	356	370	335	312	326
25	352	331	343	353	284	308	380	371	376	345	321	331
26	356	329	343	322	283	297	394	375	381	363	338	354
27	376	341	350	305	282	296	411	375	386	367	330	354
28	384	346	362	335	285	301	392	371	382	359	330	346
29	359	339	350	358	330	346	485	353	371	370	341	352
30	363	338	355	379	332	358	680	296	469	364	338	342
31	367	352	362	---	---	---	462	376	409	378	364	373
MONTH	384	303	347	419	257	360						

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	378	364	371	364	349	356	475	393	422	352	307	318
2	369	356	361	364	346	356	410	388	394	334	307	316
3	370	360	363	362	347	352	422	398	408	344	325	334
4	366	351	362	352	339	346	422	395	403	342	304	325
5	351	333	342	362	346	352	430	398	409	304	285	294
6	368	329	342	365	349	356	402	360	383	310	295	299
7	365	354	360	367	349	356	402	365	374	327	309	320
8	365	356	361	369	352	360	409	369	382	331	321	328
9	363	336	353	---	---	---	---	---	---	332	311	325
10	363	354	357	---	---	---	396	365	385	342	318	326
11	357	320	331	---	---	---	391	359	370	341	320	330
12	354	324	340	---	---	---	418	329	370	361	316	327
13	354	332	340	---	---	---	411	292	350	337	321	330
14	344	322	337	---	---	---	---	---	---	339	318	328
15	372	358	369	---	---	---	---	---	---	333	314	322
16	371	340	366	417	353	368	461	349	399	315	305	311
17	340	309	321	418	351	371	466	286	383	305	275	292
18	336	321	329	380	349	356	355	296	321	296	280	288
19	363	325	351	430	352	382	381	320	346	306	286	297
20	372	360	363	446	357	394	382	320	350	314	303	308
21	373	366	369	431	387	408	351	316	335	320	311	315
22	373	368	370	417	370	382	355	340	348	321	309	313
23	371	364	367	420	372	389	383	346	360	317	308	313
24	368	360	366	409	363	384	382	345	357	322	303	309
25	367	344	357	392	364	376	362	349	355	314	301	305
26	365	345	353	385	368	377	373	352	360	321	306	313
27	365	355	362	389	370	377	---	---	---	334	308	316
28	372	351	361	383	368	375	442	353	380	355	320	327
29	382	351	359	383	367	375	385	306	354	354	327	338
30	---	---	---	393	369	385	333	300	313	374	334	347
31	---	---	---	396	386	390	---	---	---	373	348	357
MONTH	382	309	355							374	275	318
	JUNE			JULY			AUGUST			SEPTEMBER		
1	391	349	372	303	284	292	417	373	395	302	290	296
2	379	345	363	320	299	311	456	276	311	307	295	300
3	359	346	352	328	318	325	471	323	370	310	301	305
4	364	355	359	333	325	329	378	321	351	307	292	301
5	374	362	367	355	326	333	346	286	322	316	294	303
6	371	349	361	329	322	326	347	298	331	316	292	304
7	436	354	379	330	322	326	333	312	322	309	294	302
8	421	362	391	329	314	323	329	313	321	322	298	311
9	386	355	369	324	317	321	337	318	323	322	301	312
10	380	346	360	328	319	323	335	313	323	325	303	318
11	363	318	335	329	318	324	335	310	320	328	304	320
12	337	308	324	332	325	329	342	308	315	340	313	328
13	350	329	340	332	312	323	406	341	377	335	316	329
14	354	337	346	324	310	315	401	352	370	333	298	313
15	354	340	348	317	303	310	396	331	359	338	276	292
16	349	324	332	313	300	305	338	327	333	304	280	292
17	333	321	327	311	298	303	339	321	330	315	294	304
18	327	315	319	310	298	302	356	324	336	321	299	313
19	326	321	323	318	308	313	345	320	333	329	315	322
20	333	326	329	326	314	318	338	309	317	333	320	326
21	349	330	339	326	312	321	324	301	312	329	318	323
22	352	342	345	347	310	320	312	300	306	337	322	332
23	352	337	344	356	309	324	402	304	329	342	325	332
24	348	340	344	326	311	319	413	292	321	342	316	330
25	344	310	327	351	292	321	325	287	301	354	337	345
26	310	268	291	---	---	---	330	293	305	356	340	346
27	276	257	266	---	---	---	332	295	306	362	339	349
28	269	253	260	---	---	---	317	300	309	357	333	350
29	267	258	262	306	272	285	313	293	305	358	330	349
30	285	264	274	398	230	307	311	293	302	360	342	354
31	---	---	---	512	356	423	302	290	296	---	---	---
MONTH	436	253	335				471	276	327	362	276	320
YEAR												

08067118 Lake Charlotte near Anahuac, TX—Continued



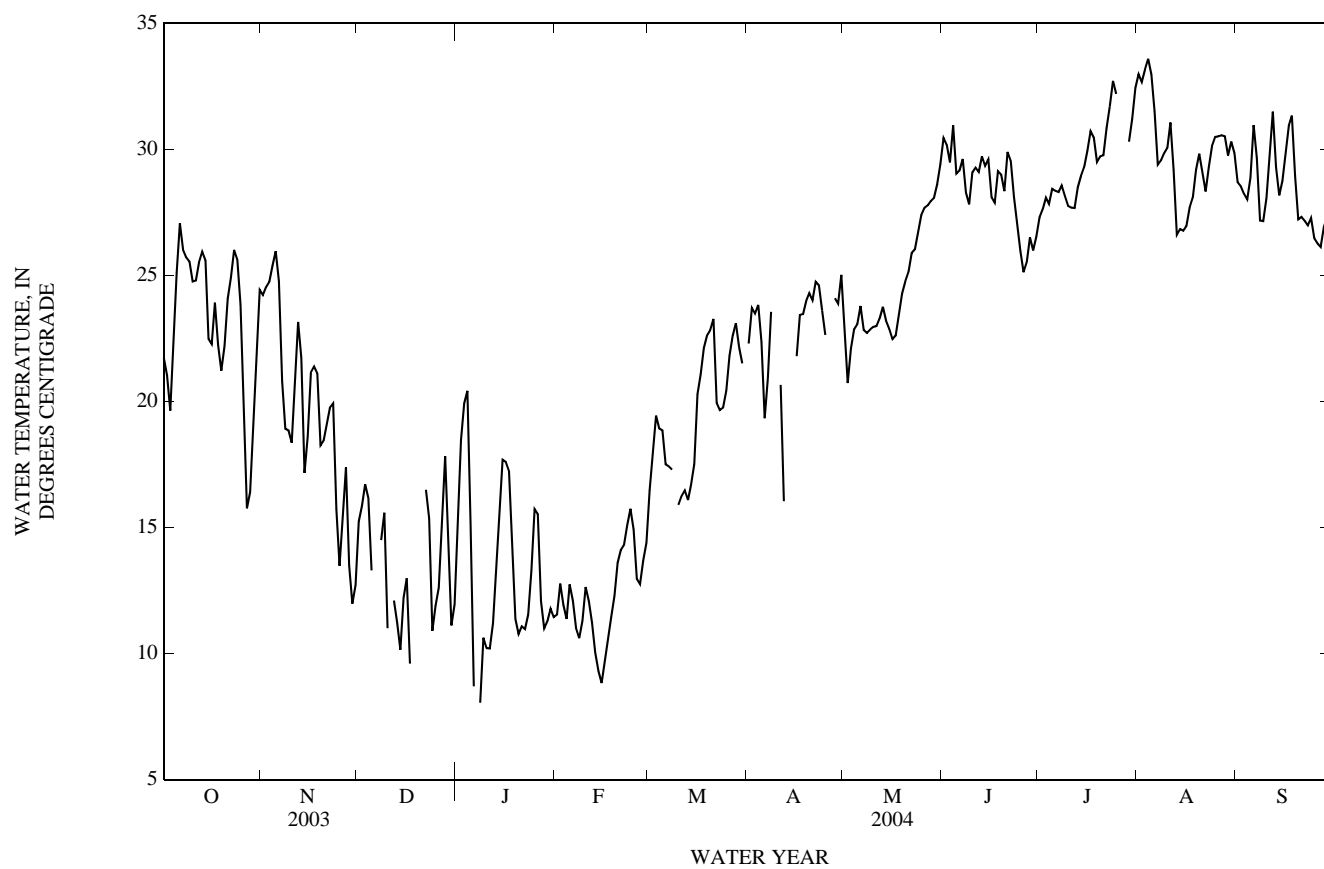
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.0	19.9	21.7	25.2	23.2	24.2	18.2	12.9	15.2	17.5	13.6	15.6
2	22.8	19.3	21.0	25.6	23.7	24.5	18.4	13.2	15.9	19.6	17.5	18.5
3	20.9	18.3	19.6	26.0	23.5	24.8	18.8	14.2	16.7	21.5	18.9	19.9
4	26.3	19.6	22.4	27.4	23.5	25.4	18.0	14.3	16.2	21.6	19.4	20.4
5	27.2	23.4	25.1	27.6	24.4	26.0	15.0	11.2	13.3	19.9	11.1	15.1
6	28.6	26.1	27.1	25.8	22.7	24.8	---	---	---	11.1	7.0	8.7
7	27.3	24.9	26.0	22.7	19.3	20.8	---	---	---	---	---	---
8	26.4	25.0	25.7	19.4	18.4	18.9	16.8	11.5	14.5	9.6	6.6	8.1
9	25.9	24.9	25.5	20.4	17.7	18.9	16.9	13.1	15.6	12.5	9.2	10.6
10	25.1	24.5	24.8	19.5	17.0	18.4	13.1	9.4	11.0	12.9	7.5	10.2
11	26.4	23.6	24.8	23.2	18.6	20.8	---	---	---	12.8	7.3	10.2
12	26.1	24.9	25.5	24.6	21.8	23.2	12.6	10.2	12.1	13.0	9.1	11.2
13	26.6	25.5	25.9	23.8	18.1	21.7	12.6	9.4	11.2	14.7	12.0	13.2
14	26.5	24.0	25.6	18.3	15.8	17.2	13.1	7.3	10.2	18.6	13.1	15.7
15	24.0	21.6	22.5	20.5	16.9	18.6	14.9	9.5	12.2	19.4	16.5	17.7
16	23.5	21.7	22.3	22.2	20.3	21.2	14.3	10.3	13.0	18.1	17.1	17.6
17	25.8	22.6	23.9	22.1	20.9	21.4	12.1	6.4	9.6	17.7	16.9	17.2
18	23.9	20.8	22.2	22.1	19.2	21.1	---	---	---	17.1	11.8	14.6
19	23.4	18.9	21.2	19.2	17.7	18.3	---	---	---	12.6	10.4	11.4
20	25.5	19.9	22.2	19.4	17.7	18.5	---	---	---	11.4	9.7	10.8
21	27.2	21.3	24.1	19.7	18.6	19.1	---	---	---	11.9	10.2	11.1
22	27.1	22.7	24.9	20.4	19.2	19.8	19.0	13.3	16.5	11.3	10.7	11.0
23	29.0	22.5	26.0	20.8	17.8	19.9	18.3	12.1	15.4	12.3	11.1	11.6
24	27.4	23.8	25.6	17.8	14.4	15.7	13.7	9.5	10.9	15.0	12.2	13.3
25	25.4	22.9	23.8	14.4	12.9	13.5	13.8	9.5	11.9	16.6	15.0	15.7
26	23.1	16.4	20.1	17.3	13.8	15.2	13.5	11.5	12.6	16.5	13.9	15.5
27	17.5	14.8	15.8	18.5	15.3	17.4	18.1	13.5	15.5	13.9	11.3	12.1
28	19.6	13.0	16.4	15.3	11.2	13.5	19.8	16.4	17.8	11.6	10.7	11.0
29	21.8	16.5	19.2	13.9	10.3	12.0	17.2	11.5	14.0	11.8	10.9	11.3
30	24.8	19.2	22.0	14.9	10.5	12.7	14.7	7.9	11.1	11.8	11.7	11.8
31	25.8	23.3	24.4	---	---	---	13.6	10.3	11.9	12.1	11.1	11.4
MONTH	29.0	13.0	23.1	27.6	10.3	19.6						

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.1	11.3	11.5	17.9	15.4	16.5	25.5	20.5	22.3	25.0	21.4	23.1
2	13.8	11.8	12.8	18.8	17.1	17.9	26.3	21.2	23.7	21.4	19.9	20.7
3	12.5	11.5	11.9	21.1	18.6	19.4	24.7	22.4	23.5	24.0	20.5	22.1
4	11.9	11.0	11.4	19.8	18.3	18.9	27.1	21.3	23.8	24.3	21.6	22.9
5	13.4	11.8	12.7	19.8	16.6	18.9	24.9	20.8	22.4	24.4	21.6	23.1
6	12.9	11.5	12.1	18.7	16.4	17.5	20.9	18.5	19.3	25.1	22.8	23.8
7	12.5	9.9	11.0	19.8	16.1	17.4	24.9	17.8	20.9	24.0	22.1	22.8
8	11.2	9.7	10.6	18.4	16.3	17.3	25.8	21.2	23.6	24.1	22.1	22.7
9	12.4	10.8	11.3	---	---	---	---	---	---	23.9	22.5	22.9
10	12.9	12.1	12.6	17.2	15.2	15.9	---	---	---	24.1	22.5	23.0
11	12.4	12.0	12.1	17.6	15.5	16.3	24.8	17.8	20.7	23.6	22.6	23.0
12	12.0	10.4	11.2	17.2	16.0	16.5	17.8	14.8	16.0	24.1	22.8	23.3
13	10.4	9.8	10.0	16.6	15.9	16.1	---	---	---	24.1	23.2	23.8
14	9.8	8.6	9.3	16.8	16.6	16.7	---	---	---	23.8	22.8	23.2
15	9.4	8.4	8.8	19.6	16.7	17.5	---	---	---	23.2	22.5	22.9
16	10.2	9.3	9.6	22.7	18.4	20.3	25.2	19.0	21.8	22.9	22.1	22.5
17	11.4	9.7	10.5	22.8	19.8	21.1	26.1	20.9	23.4	23.5	22.1	22.6
18	12.2	11.0	11.5	24.3	20.2	22.1	25.7	21.6	23.5	24.9	22.8	23.5
19	13.1	11.5	12.3	23.1	22.0	22.6	26.6	21.6	24.0	25.9	23.3	24.3
20	14.8	12.9	13.6	25.2	20.7	22.8	26.1	22.5	24.3	26.2	23.9	24.8
21	14.4	13.7	14.1	25.3	21.7	23.3	26.5	22.0	24.0	26.4	24.4	25.1
22	14.9	14.0	14.3	22.6	17.0	20.0	27.0	22.7	24.8	26.6	24.8	25.9
23	15.5	14.8	15.1	22.2	16.8	19.7	25.3	23.7	24.6	26.8	25.3	26.0
24	16.2	15.3	15.7	20.3	19.3	19.8	24.5	22.8	23.6	27.8	25.7	26.7
25	16.0	12.9	14.9	22.0	18.9	20.4	23.4	21.8	22.6	28.7	26.3	27.4
26	14.3	11.6	13.0	23.8	20.3	21.8	---	---	---	29.1	26.5	27.7
27	14.7	11.8	12.8	24.3	21.2	22.6	---	---	---	29.5	26.3	27.8
28	14.5	12.9	13.7	24.8	21.7	23.1	25.4	22.4	24.1	29.5	26.5	28.0
29	15.4	13.8	14.4	23.6	20.3	22.2	25.9	22.0	23.9	30.1	26.2	28.1
30	---	---	---	25.2	18.1	21.5	26.1	24.1	25.0	30.5	27.0	28.6
31	---	---	---	---	---	---	---	---	---	31.7	27.6	29.4
MONTH	16.2	8.4	12.2							31.7	19.9	24.6
	JUNE			JULY			AUGUST			SEPTEMBER		
1	32.1	28.8	30.5	28.1	26.5	27.3	36.4	30.4	33.0	30.5	26.9	28.7
2	31.7	28.2	30.2	28.8	26.8	27.6	35.3	30.4	32.7	29.8	27.4	28.5
3	32.3	26.8	29.5	29.0	27.0	28.1	35.6	31.0	33.2	29.0	27.4	28.2
4	34.6	28.3	31.0	28.5	27.5	27.8	37.5	30.7	33.6	29.6	26.8	28.0
5	30.3	27.8	29.0	29.6	27.7	28.4	35.5	30.8	33.0	30.4	27.8	28.9
6	31.7	26.7	29.2	29.1	27.7	28.4	32.9	30.2	31.5	34.7	28.3	31.0
7	31.5	27.7	29.6	29.1	27.8	28.3	31.9	26.6	29.4	31.5	28.5	29.7
8	30.3	26.8	28.3	29.4	27.8	28.6	32.4	27.2	29.6	28.6	25.5	27.2
9	29.9	26.1	27.8	28.5	27.7	28.1	31.4	28.4	29.9	30.4	24.2	27.2
10	30.7	27.5	29.1	28.3	27.3	27.8	31.4	28.8	30.1	29.9	25.8	28.1
11	30.3	27.9	29.3	28.2	27.4	27.7	33.7	28.8	31.1	32.9	26.5	29.8
12	30.5	27.7	29.1	27.8	27.6	27.7	31.5	27.4	29.2	32.4	30.3	31.5
13	30.9	28.9	29.7	28.8	27.8	28.5	29.1	24.0	26.6	31.3	27.4	29.3
14	30.8	28.3	29.3	29.5	28.5	28.9	28.8	24.7	26.8	29.1	27.5	28.2
15	30.8	28.7	29.6	30.1	28.8	29.3	28.8	24.6	26.8	30.9	26.9	28.8
16	30.1	27.1	28.1	31.3	29.2	30.0	28.7	25.0	27.0	31.9	27.8	29.8
17	29.5	26.8	27.9	31.5	29.7	30.7	29.6	25.4	27.7	33.0	28.9	30.9
18	30.8	28.4	29.1	31.0	29.9	30.5	29.8	26.4	28.1	33.4	29.7	31.3
19	29.6	28.3	29.0	30.8	28.0	29.5	30.8	27.7	29.2	31.1	27.1	29.0
20	29.5	28.0	28.3	31.5	27.7	29.7	31.6	28.4	29.8	29.0	25.2	27.2
21	31.1	29.0	29.9	32.4	27.0	29.8	30.1	27.9	29.1	29.1	25.7	27.3
22	30.7	28.9	29.5	32.7	29.4	30.8	29.3	27.2	28.3	28.6	25.7	27.2
23	29.0	27.6	28.1	34.6	28.3	31.7	31.4	27.3	29.3	28.2	25.7	27.0
24	27.6	26.4	27.0	35.8	30.4	32.7	31.5	28.7	30.1	30.2	25.1	27.3
25	26.6	25.6	26.0	36.0	29.6	32.2	32.5	28.8	30.5	28.1	25.3	26.5
26	25.6	24.8	25.1	---	---	---	32.0	29.0	30.5	27.9	24.8	26.3
27	26.8	24.8	25.5	---	---	---	32.5	28.8	30.6	28.2	24.4	26.1
28	27.5	25.9	26.5	---	---	---	31.4	29.8	30.5	29.7	24.6	26.9
29	26.5	25.8	26.0	32.7	27.8	30.3	31.4	28.0	29.8	30.3	24.1	27.3
30	27.6	26.0	26.5	33.8	29.2	31.2	32.0	28.6	30.3	30.4	23.6	26.9
31	---	---	---	35.6	29.7	32.4	31.5	28.5	29.9	---	---	---
MONTH	34.6	24.8	28.5				37.5	24.0	29.9	34.7	23.6	28.3
YEAR												

08067118 Lake Charlotte near Anahuac, TX—Continued



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08067252 Trinity River at Wallisville, TX

LOCATION.--Lat 29°48'44", long 94°43'52", Chambers County, Hydrologic Unit 12030203, in the center of the Trinity River Dam at the U.S. Army Corps of Engineers river lock which is located 3.0 miles west along Interstate Highway 10 from the Interstate overpass over Farm Road 563, 2.0 miles below Wallisville and 3.9 river miles from mouth.

DRAINAGE AREA.--17,796 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1994 to current year.

GAGE.--Water-stage recorders. Datum of gage is NGVD of 1929. Prior to Mar. 1999 at site 2.3 mi upstream. Satellite telemeter at station.

REMARKS.--Records good. Pressure transducers are installed to record river elevation on the upstream and downstream side of the dam. Mostly tidal.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.70 ft, Oct. 22, 1994; minimum elevation, -1.64 ft, Nov. 2 and 3, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (upstream), 4.31 ft, Oct. 10; minimum elevation (upstream), -0.97 ft, Dec. 10. Maximum elevation (downstream), 4.02 ft, May 19; minimum elevation (downstream), -0.96 ft, Dec. 10.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.12	0.73	2.05	1.90	1.23	0.19	1.75	0.96	2.92	2.06	2.34	1.21
2	2.00	0.83	2.22	2.01	0.96	0.41	1.11	0.44	2.79	1.71	2.32	1.13
3	2.36	1.29	2.27	2.19	1.51	0.78	0.79	-0.09	1.81	0.82	2.67	1.84
4	2.27	2.16	2.30	2.17	1.17	0.05	0.39	-0.33	2.85	1.01	3.18	2.48
5	2.31	2.15	2.38	2.27	0.64	-0.53	0.11	---	2.87	1.34	3.04	2.10
6	2.30	2.25	2.34	2.28	0.96	-0.83	0.27	-0.86	1.74	0.68	2.66	1.92
7	2.37	2.16	2.31	2.22	1.55	0.00	1.70	0.26	0.88	0.47	2.24	1.93
8	2.30	2.22	2.27	2.09	1.70	0.36	2.23	1.01	1.91	0.83	2.30	1.76
9	3.39	2.27	2.27	1.91	1.92	0.88	1.95	-0.09	2.03	1.37	2.27	1.88
10	4.31	1.72	2.26	1.78	1.08	-0.97	0.74	-0.37	1.75	1.02	2.44	1.80
11	2.19	1.41	2.32	2.22	1.08	-0.44	1.20	0.27	2.37	1.25	2.42	2.01
12	2.35	1.42	2.35	1.92	2.37	0.69	1.20	0.36	2.28	1.98	2.21	1.71
13	2.46	1.45	2.26	1.78	2.55	0.35	1.17	0.08	2.65	2.07	2.22	1.56
14	2.62	0.95	2.15	1.97	1.15	0.10	0.98	0.29	2.94	2.52	2.07	1.30
15	2.30	1.17	2.28	2.10	1.97	1.14	1.09	0.39	3.17	2.78	1.88	0.91
16	2.58	1.48	2.41	2.23	2.09	-0.36	2.17	0.29	3.55	3.16	1.74	0.72
17	2.45	0.61	3.57	1.70	0.49	-0.68	2.51	1.18	3.44	3.22	1.64	0.56
18	1.49	0.66	3.64	1.92	0.78	-0.12	2.04	0.77	3.50	3.14	1.79	0.74
19	2.11	0.88	1.93	1.62	0.47	-0.60	1.33	0.73	3.30	2.84	1.46	0.51
20	2.11	0.78	2.63	1.71	0.98	-0.41	2.03	1.08	2.99	2.25	1.44	0.62
21	1.74	0.76	2.94	2.07	1.58	0.14	2.08	1.30	2.35	1.61	1.01	0.26
22	1.46	0.63	2.86	2.13	1.86	0.33	1.90	1.18	2.10	1.54	1.40	0.18
23	1.26	0.48	3.07	1.74	1.94	-0.24	1.57	0.89	1.96	1.51	2.03	0.86
24	1.71	0.71	1.75	1.02	0.91	-0.47	2.17	1.35	1.92	1.51	2.29	1.26
25	1.95	0.85	2.46	1.23	1.54	0.26	2.41	1.66	1.95	1.12	2.18	1.00
26	1.71	-0.43	2.70	1.39	2.04	0.54	2.01	1.77	1.15	0.78	1.95	0.86
27	1.70	-0.09	2.67	0.47	1.90	0.81	1.97	1.63	1.61	0.92	2.25	0.92
28	1.96	0.50	0.47	-0.54	1.89	0.67	2.61	1.81	2.03	1.07	2.08	1.19
29	1.95	0.28	1.06	-0.50	0.80	-0.18	2.76	2.22	2.45	1.58	1.53	0.25
30	2.37	1.36	1.54	0.36	1.67	-0.02	2.76	2.16	---	---	1.19	-0.01
31	1.96	1.73	---	---	1.83	0.96	2.90	2.18	---	---	1.30	-0.15
MONTH	4.31	-0.43	3.64	-0.54	2.55	-0.97	2.90	-0.86	3.55	0.47	3.18	-0.15

ELEVATION ABOVE NGVD 1929, FEET—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

08067252 Trinity River at Wallisville, TX—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.01	0.62	2.13	0.73	1.16	0.13	1.70	0.91	2.73	1.78	2.27	1.13
2	1.90	0.72	2.33	1.01	0.90	0.35	1.04	0.27	2.68	1.51	2.22	1.03
3	2.24	0.72	2.14	0.88	1.43	0.71	0.57	-0.28	1.66	0.71	2.56	1.63
4	2.04	0.46	1.88	0.98	1.10	-0.02	0.07	-0.50	2.77	0.95	3.06	2.35
5	1.87	0.37	1.71	0.95	0.59	-0.57	0.12	---	2.79	1.24	2.94	1.78
6	1.76	0.35	1.59	0.55	0.91	-0.84	0.28	-0.84	1.66	0.60	2.47	1.66
7	1.86	0.38	1.37	0.05	1.50	-0.04	1.68	0.27	0.80	0.39	2.07	1.73
8	1.73	0.87	1.57	0.06	1.63	0.30	2.20	0.99	1.83	0.73	2.12	1.47
9	2.91	1.13	1.57	0.17	1.84	0.82	1.93	-0.09	1.93	1.27	2.05	1.68
10	2.31	1.53	2.27	0.31	1.04	-0.96	0.76	-0.34	1.64	0.92	2.31	1.57
11	2.04	1.25	2.48	0.99	1.05	-0.44	1.20	0.28	2.21	1.12	2.23	1.74
12	2.20	1.23	2.23	0.41	2.31	0.65	1.19	0.37	2.12	1.74	2.09	1.52
13	2.32	1.29	1.78	-0.40	2.48	0.31	1.18	0.11	2.43	1.81	2.13	1.43
14	2.47	0.80	2.15	1.06	1.10	0.05	0.98	0.31	2.56	1.98	1.99	1.23
15	2.20	1.06	2.63	0.97	1.89	1.07	1.10	0.41	2.81	2.15	1.85	0.85
16	2.46	1.36	2.44	0.78	2.03	-0.37	2.15	0.29	3.19	2.56	1.68	0.68
17	2.35	0.51	3.56	1.58	0.46	-0.68	2.48	1.16	3.21	2.78	1.63	0.52
18	1.41	0.57	3.62	1.82	0.73	-0.15	2.00	0.72	3.21	2.73	1.77	0.71
19	2.04	0.81	1.83	1.42	0.45	-0.62	1.21	0.66	3.07	2.60	1.45	0.47
20	2.02	0.70	2.51	1.63	0.95	-0.43	1.91	0.85	2.82	2.06	1.44	0.61
21	1.66	0.69	2.83	2.21	1.53	0.10	1.94	1.12	2.17	1.43	1.03	0.27
22	1.40	0.57	2.79	2.00	1.82	0.27	1.77	0.99	1.99	1.38	1.41	0.21
23	1.21	0.42	3.00	1.67	1.88	-0.25	1.45	0.78	1.85	1.42	2.03	0.88
24	1.66	0.66	1.67	1.00	0.90	-0.48	2.07	1.22	1.85	1.38	2.29	1.27
25	1.92	0.79	2.45	1.22	1.50	0.24	2.30	1.51	1.86	1.03	2.19	1.00
26	1.67	-0.46	2.70	1.25	1.99	0.52	1.84	1.49	1.05	0.72	1.94	0.87
27	1.65	-0.13	2.56	0.36	1.86	0.78	1.73	1.39	1.53	0.85	2.26	0.94
28	1.91	0.46	0.36	-0.59	1.86	0.64	2.39	1.52	1.98	0.99	2.08	1.20
29	1.90	0.24	1.00	-0.55	0.78	-0.18	2.56	1.98	2.38	1.48	1.55	0.29
30	2.32	0.65	1.47	0.30	1.64	-0.01	2.51	1.89	---	---	1.22	0.02
31	2.27	0.50	---	---	1.80	0.93	2.73	1.88	---	---	1.33	-0.11
MONTH	2.91	-0.46	3.62	-0.59	2.48	-0.96	2.73	-0.84	3.21	0.39	3.06	-0.11
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.55	0.05	3.45	1.98	1.87	0.68	3.79	3.13	1.60	0.00	1.36	0.74
2	1.43	0.31	2.00	1.54	1.95	0.58	3.86	3.48	1.44	0.20	1.28	0.73
3	1.15	0.32	2.42	1.95	1.95	0.21	3.90	3.60	1.06	0.21	1.30	0.79
4	0.92	0.35	2.63	2.20	1.45	0.27	3.91	3.68	---	---	1.58	0.83
5	1.46	0.39	2.83	2.35	1.58	0.09	3.89	3.61	0.90	0.50	1.64	0.90
6	2.06	0.92	3.04	2.42	1.66	0.44	3.84	3.66	0.92	0.17	1.58	0.62
7	1.76	0.65	3.13	2.53	1.96	0.60	3.76	3.45	1.01	0.30	1.16	0.25
8	1.00	0.13	3.27	2.64	2.56	0.97	3.62	3.39	1.22	0.49	0.87	0.13
9	1.39	-0.17	3.30	2.72	2.43	1.54	3.47	3.12	1.33	0.50	1.23	0.08
10	1.62	0.18	3.38	2.70	2.35	1.91	3.25	2.91	1.43	0.47	1.30	0.32
11	1.18	-0.09	3.65	2.78	2.58	1.78	3.14	2.70	1.37	0.43	1.16	0.17
12	0.65	-0.08	3.61	3.23	2.43	1.61	2.88	2.58	0.70	0.15	1.83	0.12
13	0.16	-0.34	3.74	3.22	2.22	1.58	2.70	2.46	1.47	0.07	1.83	0.73
14	0.68	-0.47	3.71	3.25	2.32	1.54	2.71	2.30	1.47	0.57	2.39	1.24
15	0.90	0.06	3.52	3.03	2.54	1.61	2.67	2.22	1.64	0.60	2.32	1.75
16	1.04	0.34	3.68	3.20	2.97	1.59	2.31	2.03	1.66	0.65	2.46	1.42
17	1.04	0.66	3.90	3.48	2.79	1.79	2.03	1.43	1.46	0.65	2.46	1.55
18	1.53	0.71	4.00	3.62	2.68	2.11	1.43	0.44	1.45	0.72	2.26	0.61
19	1.72	0.77	4.02	3.63	2.57	2.04	1.28	0.18	1.85	0.94	1.75	0.21
20	1.71	0.51	3.91	3.49	2.65	2.12	1.21	0.45	1.80	1.28	2.05	0.90
21	1.98	0.89	3.70	3.27	2.84	2.26	1.27	0.47	1.58	0.60	2.80	1.45
22	2.11	0.99	3.36	2.97	3.09	2.55	1.20	0.45	1.61	0.73	3.33	1.64
23	2.31	1.10	3.15	2.66	2.86	2.53	0.95	0.55	1.94	0.83	2.83	0.86
24	1.98	0.93	2.87	2.15	3.34	2.75	0.83	0.34	1.96	0.88	2.15	0.47
25	1.56	0.38	2.68	1.99	3.61	2.95	0.91	-0.16	1.89	0.88	2.27	0.45
26	1.05	0.18	2.22	1.45	3.52	3.37	0.71	-0.34	1.88	0.88	1.75	0.60
27	1.31	-0.02	2.08	1.44	3.71	3.31	1.04	-0.38	1.72	0.87	1.88	0.48
28	2.09	0.47	2.09	0.98	3.46	3.21	1.48	-0.05	1.52	0.71	1.27	0.50
29	2.40	1.70	2.05	1.31	3.45	3.11	1.75	0.12	1.39	0.55	1.19	0.06
30	2.34	1.28	2.53	1.55	3.50	3.01	1.61	0.12	1.46	0.60	1.47	0.14
31	---	---	2.31	0.76	---	---	1.19	-0.07	1.56	0.69	---	---
MONTH	2.40	-0.47	4.02	0.76	3.71	0.09	3.91	-0.38	1.96	0.00	3.33	0.06
YEAR	4.02	-0.96										

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08067252 Trinity River at Wallisville, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1995 to current year.

WATER TEMPERATURE: Oct. 1995 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1995. A second water-quality monitor was installed on downstream side of dam Mar. 19, 1999.

REMARKS.--Records good. Interruptions in the record were caused by malfunctions of the instrument. Gage was relocated to permanent location after dam and lock were completed on Mar. 18, 1999, from temporary location 2.3 miles upstream. Water-quality monitors are installed to record data on the upstream and downstream sides of the dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (UPSTREAM): Maximum, 21,300 microsiemens/cm, Oct. 9, 1999; minimum, 107 microsiemens/cm, Nov. 18, 2003.

WATER TEMPERATURE (UPSTREAM): Maximum, 34.9°C, July 22, 2001; minimum, 6.4°C, Jan. 3, 2001.

SPECIFIC CONDUCTANCE (DOWNSTREAM): Maximum 34,500 microsiemens/cm, Dec. 3, 1999; minimum, 125 microsiemens/cm, Apr. 6, 1999.

WATER TEMPERATURE (DOWNSTREAM): Maximum, 34.4°C, Aug. 10, 1999; minimum, 9.1°C, Jan. 5, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE (UPSTREAM): Maximum, 3,080 microsiemens/cm, Sept. 21; minimum, 107 microsiemens/cm, Nov. 18.

WATER TEMPERATURE (UPSTREAM): Maximum, 33.8°C, Aug. 2; minimum, 9.3°C, Feb. 15.

SPECIFIC CONDUCTANCE (DOWNSTREAM): Maximum, 9,650 microsiemens/cm, Aug. 31; minimum, 182 microsiemens/cm, Sept. 15.

WATER TEMPERATURE (DOWNSTREAM): Maximum, 33.5°C, Aug. 2; minimum, 9.3°C, Feb. 15.

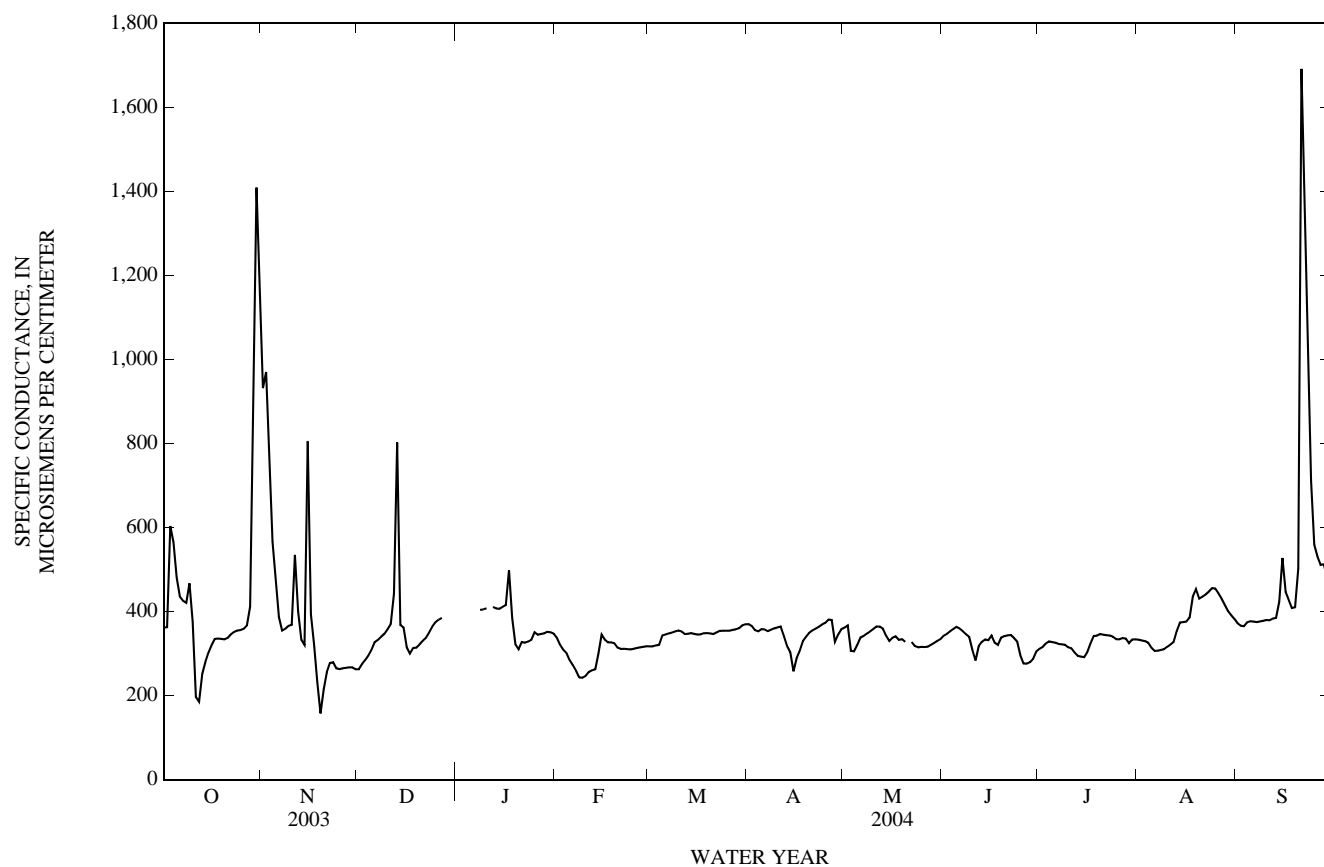
SPECIFIC CONDUCTANCE (UPSTREAM), WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	365	360	362	1,130	758	932	278	258	263	---	---	---
2	365	359	363	1,170	758	970	285	267	275	---	---	---
3	940	363	603	800	609	725	295	278	284	---	---	---
4	626	524	565	628	515	567	308	287	296	---	---	---
5	524	457	481	518	463	479	333	298	309	---	---	---
6	457	422	436	467	355	387	333	317	328	---	---	---
7	432	419	426	358	351	355	341	329	333	---	---	---
8	440	414	421	362	357	359	350	333	340	405	403	404
9	506	440	467	368	362	366	356	344	347	407	404	405
10	481	244	376	370	366	368	386	348	358	410	407	408
11	244	170	197	864	370	535	391	365	371	---	---	---
12	225	161	186	506	324	401	1,820	369	442	412	409	411
13	267	225	252	345	319	333	2,240	368	802	409	406	408
14	290	267	281	328	307	321	378	358	368	409	406	407
15	312	290	302	2,590	302	805	372	341	362	414	408	411
16	330	312	320	515	340	393	343	294	315	436	410	415
17	340	330	335	400	278	321	317	290	300	772	406	499
18	338	333	336	285	107	232	327	303	313	408	365	384
19	338	333	335	202	110	158	328	309	314	367	304	322
20	337	332	334	241	183	215	332	314	322	332	304	310
21	342	333	337	273	240	256	347	325	331	339	321	328
22	355	340	346	281	273	278	344	333	338	328	324	326
23	355	348	352	287	267	280	362	341	350	330	327	329
24	357	353	355	270	257	265	373	356	364	354	329	333
25	358	353	356	267	258	263	380	371	375	365	335	351
26	364	355	359	269	262	265	386	376	381	348	341	345
27	400	363	367	268	265	266	388	382	385	348	345	347
28	683	369	412	268	266	267	---	---	---	351	347	348
29	1,790	373	713	269	265	267	---	---	---	353	351	352
30	2,360	396	1,410	266	258	263	---	---	---	352	350	351
31	1,340	924	1,150	---	---	---	---	---	---	350	342	347
MONTH	2,360	161	437	2,590	107	396						

CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	343	328	337	318	315	317	373	368	370	365	359	362
2	328	315	321	319	316	317	368	361	366	370	363	367
3	316	302	309	321	309	319	362	352	356	368	263	307
4	304	291	301	335	309	321	355	352	353	315	290	305
5	293	274	284	345	335	343	361	354	358	340	305	321
6	274	271	273	348	345	345	362	352	358	346	332	338
7	271	246	259	349	347	348	355	352	353	346	340	342
8	246	242	243	350	349	350	361	354	357	353	344	348
9	244	242	243	354	350	353	363	358	360	355	350	353
10	254	244	247	356	354	355	365	359	362	362	354	358
11	263	251	256	356	349	353	365	361	364	366	361	364
12	263	258	260	349	345	347	362	309	342	369	361	365
13	266	261	262	349	346	347	329	305	318	367	347	360
14	346	265	300	350	348	349	330	259	303	348	336	343
15	348	339	345	348	346	347	279	242	258	337	323	330
16	339	326	333	347	343	345	293	279	289	342	330	338
17	331	324	327	348	344	346	322	292	307	344	338	341
18	329	325	327	350	348	349	336	322	330	339	328	333
19	328	317	324	350	348	349	344	336	340	338	331	334
20	317	312	314	348	347	348	352	344	350	332	323	328
21	313	310	311	348	345	346	357	352	355	---	---	---
22	312	311	312	353	347	350	360	357	359	332	322	328
23	311	309	311	355	353	354	366	360	364	322	314	318
24	311	309	310	355	354	354	379	365	370	316	314	315
25	313	311	312	356	353	355	377	367	373	317	315	316
26	315	312	313	355	354	355	383	377	381	317	315	316
27	317	314	315	357	355	356	382	377	380	318	314	316
28	317	315	316	361	357	358	377	301	328	324	317	321
29	318	316	318	364	357	360	354	327	345	329	323	325
30	---	---	---	370	364	367	363	353	358	333	329	330
31	---	---	---	372	369	370	---	---	---	341	330	334
MONTH	348	242	299	372	309	348	383	242	347			
JUNE			JULY			AUGUST			SEPTEMBER			
1	344	340	342	315	308	312	335	330	333	377	367	372
2	349	343	346	322	314	316	334	323	331	368	364	366
3	355	349	353	329	322	325	333	324	330	369	363	365
4	362	354	358	331	328	329	329	323	326	378	368	374
5	367	359	364	331	325	327	326	303	314	378	376	377
6	367	355	360	328	324	326	308	305	306	379	374	376
7	357	349	353	325	320	323	308	305	307	378	370	375
8	351	344	346	324	321	322	310	307	309	379	374	377
9	346	331	340	326	316	321	312	308	311	380	376	378
10	331	292	309	319	312	315	321	312	316	382	378	380
11	305	263	284	314	310	312	324	319	321	382	376	379
12	325	305	318	310	295	303	338	322	328	385	380	383
13	330	325	328	296	294	295	366	338	354	387	383	385
14	337	330	333	295	290	293	378	366	374	657	386	424
15	344	322	332	296	289	292	379	372	375	665	455	528
16	350	329	343	311	295	304	381	373	376	571	406	447
17	334	311	326	338	311	325	405	374	386	485	410	428
18	332	312	321	344	338	342	455	405	436	411	407	409
19	342	332	338	344	342	343	466	440	453	412	408	410
20	343	341	342	348	344	346	440	424	431	678	410	502
21	345	342	343	346	344	345	440	426	436	3,080	447	1,690
22	349	342	344	344	343	343	446	436	441	1,920	1,150	1,470
23	342	335	337	344	342	343	452	445	448	1,150	866	1,020
24	337	314	329	342	338	340	458	452	456	980	565	711
25	314	285	296	338	331	334	461	450	455	640	528	559
26	285	273	277	336	331	334	450	436	444	544	515	531
27	278	274	276	340	334	337	438	423	431	522	497	511
28	286	277	279	339	322	336	423	407	416	535	486	513
29	294	280	287	332	321	325	407	396	401	497	461	480
30	309	294	305	336	330	334	396	386	391	691	438	494
31	---	---	---	336	329	334	386	377	383	---	---	---
MONTH	367	263	327	348	289	325	466	303	378	3,080	363	534
YEAR												

08067252 Trinity River at Wallisville, TX—Continued



TEMPERATURE, WATER (UPSTREAM), DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

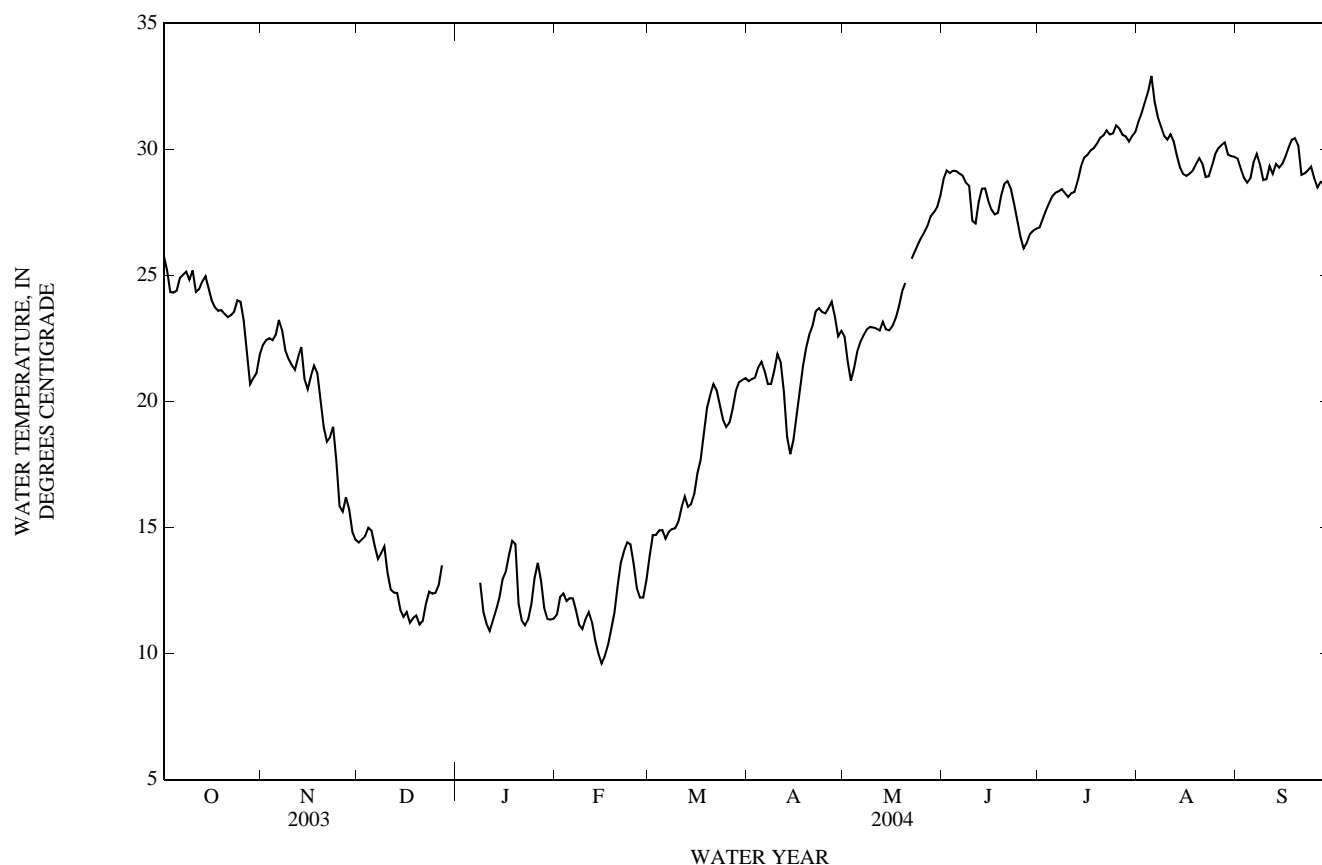
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	26.1	25.4	25.8	22.4	22.1	22.2	14.6	14.3	14.4	---	---	---
2	25.6	24.8	25.2	22.6	22.3	22.4	14.9	14.2	14.5	---	---	---
3	25.1	23.3	24.3	22.6	22.5	22.5	14.9	14.4	14.7	---	---	---
4	24.6	24.1	24.3	22.6	22.2	22.4	15.2	14.8	15.0	---	---	---
5	24.8	24.1	24.4	22.8	22.5	22.6	15.1	14.4	14.9	---	---	---
6	25.3	24.6	24.9	23.9	22.6	23.2	14.4	14.1	14.3	---	---	---
7	25.3	24.8	25.0	23.4	22.4	22.8	14.1	13.6	13.8	---	---	---
8	25.6	24.9	25.2	22.4	21.8	22.0	14.3	13.6	14.0	13.1	12.5	12.8
9	24.9	24.8	24.8	22.0	21.4	21.7	14.5	13.6	14.2	12.5	11.1	11.7
10	25.6	24.6	25.2	21.9	21.3	21.5	13.7	12.5	13.2	11.5	10.9	11.2
11	24.6	24.1	24.3	21.4	21.2	21.3	12.9	12.2	12.5	11.1	10.8	10.9
12	24.8	24.1	24.5	22.4	21.4	21.7	12.7	12.0	12.4	11.6	11.0	11.3
13	24.9	24.6	24.8	22.4	21.6	22.2	12.8	12.1	12.4	11.9	11.5	11.7
14	25.3	24.8	25.0	21.6	20.7	20.9	12.6	11.2	11.7	12.8	11.8	12.2
15	24.8	24.2	24.5	20.9	20.0	20.5	12.0	11.0	11.5	14.2	12.5	12.9
16	24.2	23.7	24.0	21.2	20.9	21.0	11.9	11.4	11.6	14.3	12.8	13.2
17	24.0	23.6	23.7	21.6	21.2	21.4	11.4	11.0	11.2	14.9	13.4	13.9
18	23.8	23.4	23.6	21.6	20.8	21.1	11.8	10.9	11.4	15.2	13.8	14.5
19	23.9	23.4	23.6	20.8	19.3	20.0	11.7	11.3	11.5	15.2	12.8	14.3
20	23.8	23.3	23.5	19.3	18.6	19.0	11.4	10.9	11.2	12.8	11.6	12.0
21	23.8	23.1	23.3	18.6	18.2	18.4	11.8	10.9	11.3	11.6	11.1	11.3
22	24.0	22.9	23.4	18.9	18.3	18.6	12.7	11.5	12.0	11.3	10.9	11.1
23	24.3	23.1	23.6	19.2	18.6	19.0	12.8	12.2	12.5	11.7	11.2	11.4
24	24.3	23.7	24.0	18.6	16.6	17.6	12.8	12.1	12.4	12.5	11.7	12.0
25	24.3	23.8	24.0	16.6	15.4	15.8	12.7	12.2	12.4	13.5	12.5	13.0
26	23.8	22.2	23.2	15.9	15.2	15.6	13.2	12.2	12.7	13.9	13.2	13.6
27	22.2	20.6	21.9	16.5	15.9	16.2	13.9	13.2	13.5	13.3	12.3	12.9
28	21.7	19.4	20.7	16.4	15.4	15.7	---	---	---	12.3	11.6	11.8
29	21.8	19.8	20.9	15.4	14.5	14.8	---	---	---	11.6	11.2	11.4
30	21.9	20.4	21.1	14.7	14.4	14.5	---	---	---	11.4	11.2	11.3
31	22.4	21.5	21.8	---	---	---	---	---	---	11.5	11.3	11.4
MONTH	26.1	19.4	23.8	23.9	14.4	20.0						

TEMPERATURE, WATER (UPSTREAM), DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	11.8	11.3	11.5	14.3	13.4	13.9	20.9	20.6	20.8	23.0	22.2	22.6
2	12.6	11.8	12.3	15.2	14.1	14.7	21.2	20.6	20.9	22.2	21.0	21.6
3	12.5	12.2	12.4	15.0	14.3	14.7	21.1	20.8	20.9	21.2	20.4	20.8
4	12.4	11.9	12.1	15.1	14.8	14.9	21.7	21.0	21.4	21.8	20.9	21.3
5	12.3	12.1	12.2	15.1	14.7	14.9	21.8	21.4	21.6	22.5	21.5	22.0
6	12.3	12.0	12.2	14.9	14.3	14.6	21.5	20.9	21.2	22.8	22.0	22.4
7	12.0	11.5	11.7	15.3	14.3	14.8	21.4	20.4	20.7	23.0	22.4	22.6
8	11.5	11.0	11.1	15.2	14.6	14.9	21.6	20.3	20.7	23.2	22.6	22.9
9	11.1	10.8	11.0	15.3	14.6	15.0	23.3	20.4	21.2	23.3	22.7	23.0
10	11.6	11.1	11.4	15.7	14.8	15.2	23.8	20.9	21.9	23.1	22.8	22.9
11	11.7	11.5	11.6	16.1	15.5	15.8	21.9	21.2	21.6	23.1	22.5	22.9
12	11.5	10.8	11.2	16.5	16.0	16.2	21.3	19.1	20.4	23.1	22.6	22.8
13	10.8	10.3	10.5	16.2	15.6	15.8	19.1	18.4	18.6	23.4	23.0	23.2
14	10.3	9.7	10.0	16.1	15.8	15.9	18.4	17.5	17.9	23.0	22.8	22.9
15	9.8	9.3	9.6	16.6	16.1	16.3	19.2	17.9	18.5	23.0	22.7	22.8
16	10.2	9.6	9.9	17.8	16.5	17.2	20.1	18.9	19.5	23.3	22.7	23.0
17	10.8	9.9	10.3	18.4	17.2	17.7	21.2	19.8	20.4	23.5	23.1	23.3
18	11.4	10.6	11.0	19.7	18.1	18.8	21.9	20.9	21.4	24.2	23.4	23.8
19	12.2	11.2	11.6	20.1	19.4	19.8	22.5	21.8	22.1	24.8	23.9	24.4
20	13.3	12.2	12.7	20.6	19.9	20.3	23.1	22.3	22.6	25.1	24.5	24.7
21	14.0	13.2	13.6	20.9	20.4	20.7	23.5	22.6	23.0	---	---	---
22	14.3	13.8	14.1	20.8	20.1	20.4	24.2	22.9	23.6	26.0	25.3	25.7
23	14.5	14.3	14.4	20.1	19.6	19.8	23.9	23.4	23.7	26.2	25.7	26.0
24	14.5	14.0	14.3	19.6	19.0	19.3	23.8	23.4	23.6	26.5	25.9	26.2
25	14.0	12.8	13.6	19.4	18.7	19.0	23.6	23.3	23.5	26.9	26.1	26.5
26	12.8	12.4	12.6	19.5	18.7	19.2	24.8	23.2	23.7	27.1	26.4	26.7
27	12.4	12.0	12.2	20.1	19.3	19.7	24.4	23.6	23.9	27.2	26.7	27.0
28	12.4	12.0	12.2	21.1	20.0	20.4	23.9	22.8	23.4	27.6	27.2	27.3
29	13.4	12.4	12.9	20.9	20.5	20.8	22.8	22.4	22.6	27.9	27.2	27.5
30	---	---	---	21.3	20.6	20.9	23.2	22.4	22.8	28.3	27.4	27.7
31	---	---	---	21.4	20.5	20.9	---	---	---	28.7	27.5	28.2
MONTH	14.5	9.3	11.9	21.4	13.4	17.5	24.8	17.5	21.6			
JUNE			JULY			AUGUST			SEPTEMBER			
1	30.1	28.4	28.8	27.1	26.7	26.9	31.8	30.9	31.1	29.9	29.3	29.6
2	29.8	28.9	29.2	27.6	26.9	27.2	33.8	31.1	31.5	29.6	29.0	29.2
3	29.5	28.9	29.1	27.9	27.2	27.6	33.4	31.3	31.9	29.1	28.6	28.9
4	30.3	28.9	29.2	28.2	27.5	27.9	33.0	31.7	32.3	29.0	28.4	28.7
5	29.3	28.8	29.1	28.5	27.8	28.1	33.1	32.5	32.9	29.1	28.6	28.9
6	29.7	28.8	29.0	28.5	28.1	28.3	32.5	31.6	31.9	30.0	29.0	29.5
7	29.4	28.7	29.0	28.6	28.1	28.3	31.6	31.0	31.3	30.1	29.5	29.8
8	28.9	28.5	28.7	28.7	28.2	28.4	31.2	30.7	30.9	29.9	29.0	29.4
9	28.8	27.8	28.6	28.5	28.0	28.3	30.7	30.3	30.5	29.0	28.5	28.8
10	27.8	26.8	27.2	28.5	27.7	28.1	30.5	30.2	30.4	29.1	28.5	28.8
11	27.7	26.4	27.1	28.4	28.1	28.3	30.8	30.4	30.6	30.4	28.8	29.3
12	28.5	27.5	27.9	28.7	27.9	28.3	30.7	30.1	30.3	29.6	28.7	29.0
13	28.9	28.1	28.4	29.2	28.3	28.8	30.1	29.4	29.8	29.7	29.0	29.4
14	28.7	28.2	28.4	29.8	28.9	29.3	29.6	29.0	29.3	29.5	28.8	29.3
15	28.3	27.4	28.0	30.1	29.2	29.7	29.3	28.7	29.0	30.4	29.0	29.4
16	28.1	27.3	27.6	30.1	29.4	29.8	29.2	28.6	29.0	30.2	29.3	29.7
17	27.7	27.1	27.4	30.2	29.8	30.0	29.3	28.7	29.0	30.6	29.7	30.1
18	28.0	27.0	27.5	30.4	29.8	30.0	29.4	28.8	29.2	30.9	30.0	30.4
19	28.6	27.8	28.2	30.7	29.9	30.2	29.8	29.1	29.4	30.7	30.1	30.4
20	29.1	28.3	28.6	30.7	30.2	30.5	30.0	29.4	29.7	30.4	29.9	30.2
21	29.1	28.5	28.7	30.8	30.3	30.6	29.6	29.2	29.4	30.2	27.6	29.0
22	28.6	28.2	28.5	31.1	30.6	30.8	29.2	28.8	28.9	29.5	28.6	29.0
23	28.2	27.5	27.9	30.9	30.3	30.6	29.3	28.6	28.9	30.4	28.5	29.2
24	27.5	27.0	27.2	30.8	30.4	30.6	29.7	29.0	29.3	30.8	28.7	29.3
25	27.0	26.2	26.6	31.4	30.8	31.0	30.2	29.4	29.8	29.2	28.6	28.9
26	26.2	26.0	26.1	31.5	30.4	30.8	30.4	29.6	30.1	29.7	28.1	28.5
27	26.6	26.0	26.3	32.3	30.0	30.6	30.7	29.7	30.2	29.8	28.0	28.7
28	26.9	26.3	26.6	30.9	30.3	30.5	30.5	30.0	30.3	29.4	28.1	28.7
29	26.9	26.6	26.8	31.4	30.0	30.3	30.0	29.6	29.8	29.2	27.7	28.2
30	27.0	26.8	26.9	31.7	30.1	30.5	30.0	29.4	29.7	28.4	27.4	27.9
31	---	---	---	32.0	30.4	30.7	30.1	29.3	29.7	---	---	---
MONTH	30.3	26.0	28.0	32.3	26.7	29.4	33.8	28.6	30.2	30.9	27.4	29.2
YEAR												

TRINITY RIVER BASIN

08067252 Trinity River at Wallisville, TX—Continued



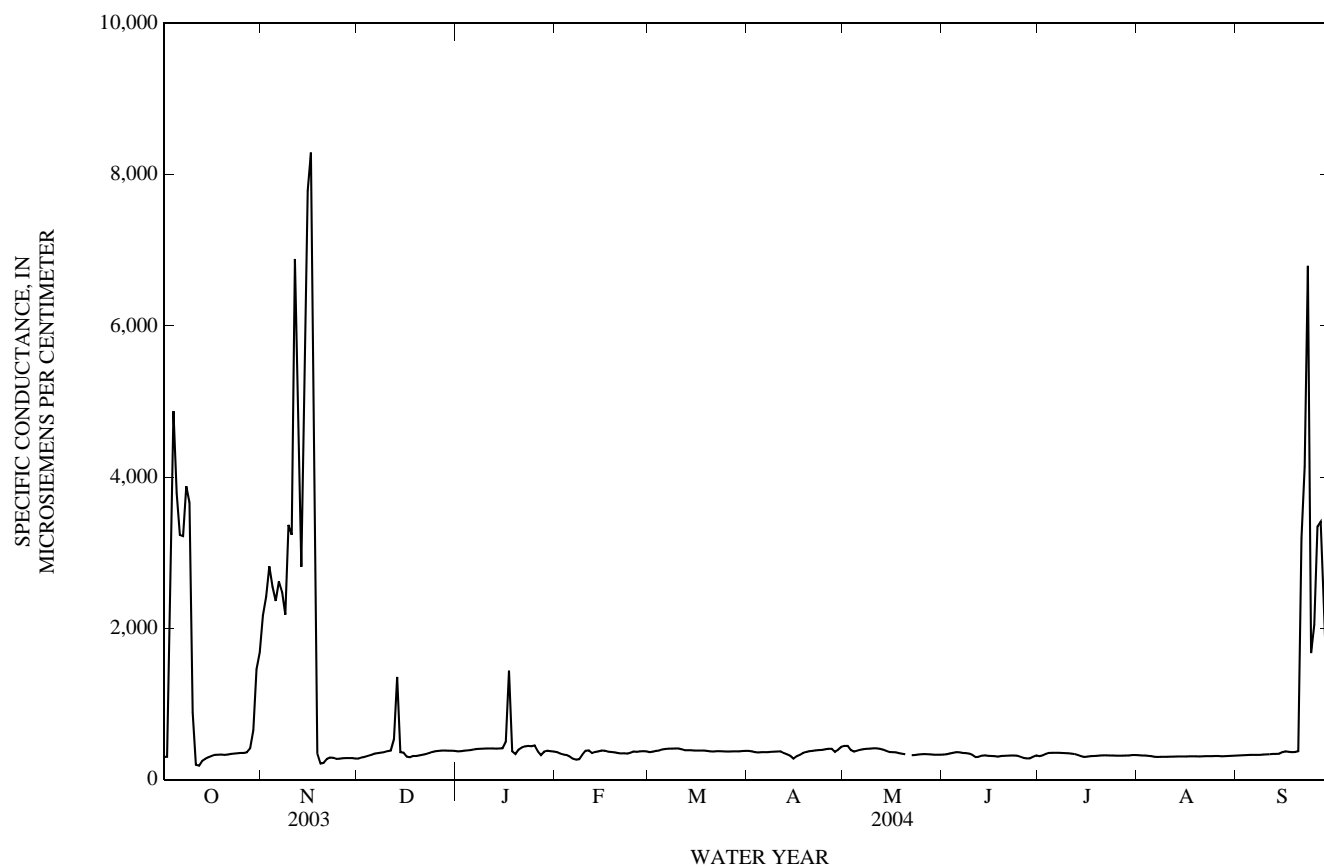
SPECIFIC CONDUCTANCE (DOWNSTREAM), WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	304	298	301	2,580	1,490	2,170	287	275	280	377	370	375
2	310	299	302	3,460	2,110	2,420	298	287	294	379	373	376
3	6,030	300	3,180	3,180	2,610	2,820	308	297	303	386	377	382
4	5,360	4,230	4,870	2,780	2,160	2,550	321	308	315	392	383	387
5	4,230	3,290	3,790	2,650	1,950	2,360	339	320	328	396	388	392
6	3,640	2,780	3,230	3,020	1,970	2,620	350	339	346	406	395	400
7	3,460	2,730	3,220	2,720	2,200	2,480	355	346	350	408	405	406
8	4,280	3,370	3,880	2,410	2,010	2,180	364	352	358	409	405	407
9	5,200	2,170	3,660	3,930	2,130	3,370	367	363	364	411	408	409
10	2,990	250	889	3,890	2,700	3,240	385	365	377	414	410	412
11	250	169	197	10,400	3,470	6,880	389	381	386	421	409	413
12	223	159	184	8,010	1,230	4,670	2,700	386	536	423	407	413
13	265	223	250	5,510	428	2,810	4,430	366	1,360	415	407	410
14	286	265	277	7,320	1,770	4,770	375	356	365	423	408	412
15	324	286	297	9,840	5,580	7,790	365	332	358	423	412	415
16	323	306	313	9,060	7,390	8,290	332	287	304	1,670	410	498
17	332	322	328	7,560	387	2,870	307	288	296	10,800	398	1,440
18	334	329	331	827	211	347	318	307	313	401	322	374
19	336	329	332	246	188	214	318	309	313	374	324	338
20	330	326	328	261	190	223	328	313	321	414	374	397
21	340	328	332	288	252	272	334	326	331	439	414	425
22	344	335	339	299	284	293	345	333	338	445	434	440
23	348	344	345	298	280	289	361	341	351	456	439	447
24	359	347	349	288	268	274	374	361	366	457	428	443
25	362	348	353	291	269	278	379	371	376	462	428	452
26	361	349	354	294	278	284	386	378	381	428	348	375
27	412	356	362	287	284	286	387	381	384	354	291	323
28	773	363	413	288	284	286	388	383	385	381	354	370
29	1,430	365	651	288	284	285	385	381	383	384	380	382
30	2,290	506	1,460	284	274	279	388	381	384	384	374	377
31	2,450	1,200	1,680	---	---	---	389	375	381	375	370	372
MONTH	6,030	159	1,190	10,400	188	2,260	4,430	275	385	10,800	291	434

SPECIFIC CONDUCTANCE (DOWNSTREAM), WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—
CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	371	354	363	370	363	365	383	377	380	448	445	446
2	354	337	344	378	365	370	379	370	375	449	445	447
3	338	328	332	385	378	381	370	359	364	445	366	391
4	330	319	325	394	379	385	364	358	360	377	357	370
5	319	295	306	403	394	399	366	360	363	391	377	384
6	295	266	278	410	403	406	365	361	363	399	389	396
7	269	260	264	413	410	411	365	362	364	408	397	403
8	278	267	271	412	410	411	372	363	367	412	408	409
9	370	278	331	414	411	413	373	368	371	413	408	410
10	390	370	383	414	408	413	376	368	373	416	412	414
11	391	375	387	410	391	401	376	373	375	415	411	414
12	376	313	352	392	387	389	373	317	351	412	404	408
13	372	360	367	393	387	390	345	316	333	404	388	398
14	382	368	375	393	386	389	344	265	316	388	373	381
15	389	375	385	388	385	386	301	254	276	373	362	367
16	389	370	382	388	383	385	315	301	310	365	362	364
17	370	369	369	388	383	386	345	314	329	365	358	362
18	369	364	367	387	383	385	361	345	353	358	347	352
19	365	358	362	386	376	381	372	360	366	347	340	343
20	359	349	353	379	371	374	379	371	376	340	329	336
21	349	346	348	376	371	372	385	378	382	---	---	---
22	349	346	348	378	373	376	390	383	388	327	321	325
23	346	342	344	379	375	376	393	388	391	328	321	325
24	367	345	356	377	374	375	395	391	393	336	326	331
25	375	367	371	377	372	373	406	395	402	339	333	336
26	374	365	368	375	372	373	412	406	409	341	336	339
27	376	369	373	375	372	374	411	406	409	339	334	337
28	377	375	376	377	372	374	406	351	368	337	332	335
29	376	370	374	379	372	375	418	371	395	334	328	331
30	---	---	---	380	376	378	446	418	435	332	328	330
31	---	---	---	383	379	381	---	---	---	331	328	329
MONTH	391	260	350	414	363	385	446	254	368	449	321	370
JUNE			JULY			AUGUST			SEPTEMBER			
1	335	330	333	315	309	312	325	320	323	321	318	319
2	342	334	337	334	314	322	323	318	320	323	319	321
3	351	341	347	349	332	341	320	317	319	325	322	324
4	360	351	356	358	349	354	319	310	316	330	325	326
5	366	359	363	358	355	356	318	303	311	330	327	328
6	368	358	362	358	354	356	304	301	302	329	326	328
7	359	351	354	357	352	354	303	299	301	328	326	327
8	356	347	350	354	352	353	302	300	302	330	326	329
9	348	341	345	353	350	352	302	301	302	334	330	333
10	342	319	328	351	347	349	303	301	302	336	333	335
11	320	289	299	347	344	346	305	302	304	338	335	336
12	313	292	302	345	331	339	305	303	304	342	338	340
13	320	312	316	331	322	327	308	304	306	342	339	341
14	323	318	321	322	303	312	307	305	306	350	341	343
15	321	311	315	304	296	299	307	305	306	386	348	364
16	315	307	312	309	300	305	309	306	308	385	361	374
17	317	300	311	313	308	310	310	307	309	373	364	369
18	312	300	304	316	311	313	310	309	310	366	362	364
19	317	311	314	317	314	316	311	306	309	368	365	367
20	320	313	316	321	316	319	308	305	307	389	365	377
21	320	316	318	323	318	321	310	308	309	7,980	374	3,190
22	321	317	319	322	320	321	312	310	311	6,640	1,990	4,140
23	321	318	320	321	318	320	313	308	310	10,300	1,650	6,790
24	321	315	318	320	316	319	313	308	311	1,990	1,430	1,670
25	316	291	302	319	316	317	315	312	313	3,030	1,720	2,050
26	292	284	287	318	315	316	315	311	313	3,820	2,840	3,350
27	286	272	282	319	315	317	317	305	309	4,090	2,850	3,410
28	285	272	281	320	318	319	315	306	311	3,250	1,350	2,160
29	321	285	303	323	317	320	316	310	313	2,480	451	1,170
30	337	308	319	328	322	325	319	313	315	1,310	449	681
31	---	---	---	328	323	325	322	316	318	---	---	---
MONTH	368	272	321	358	296	328	325	299	310	10,300	318	1,180
YEAR	10,800	159	655									

08067252 Trinity River at Wallisville, TX—Continued


 TEMPERATURE, WATER (DOWNSTREAM), DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

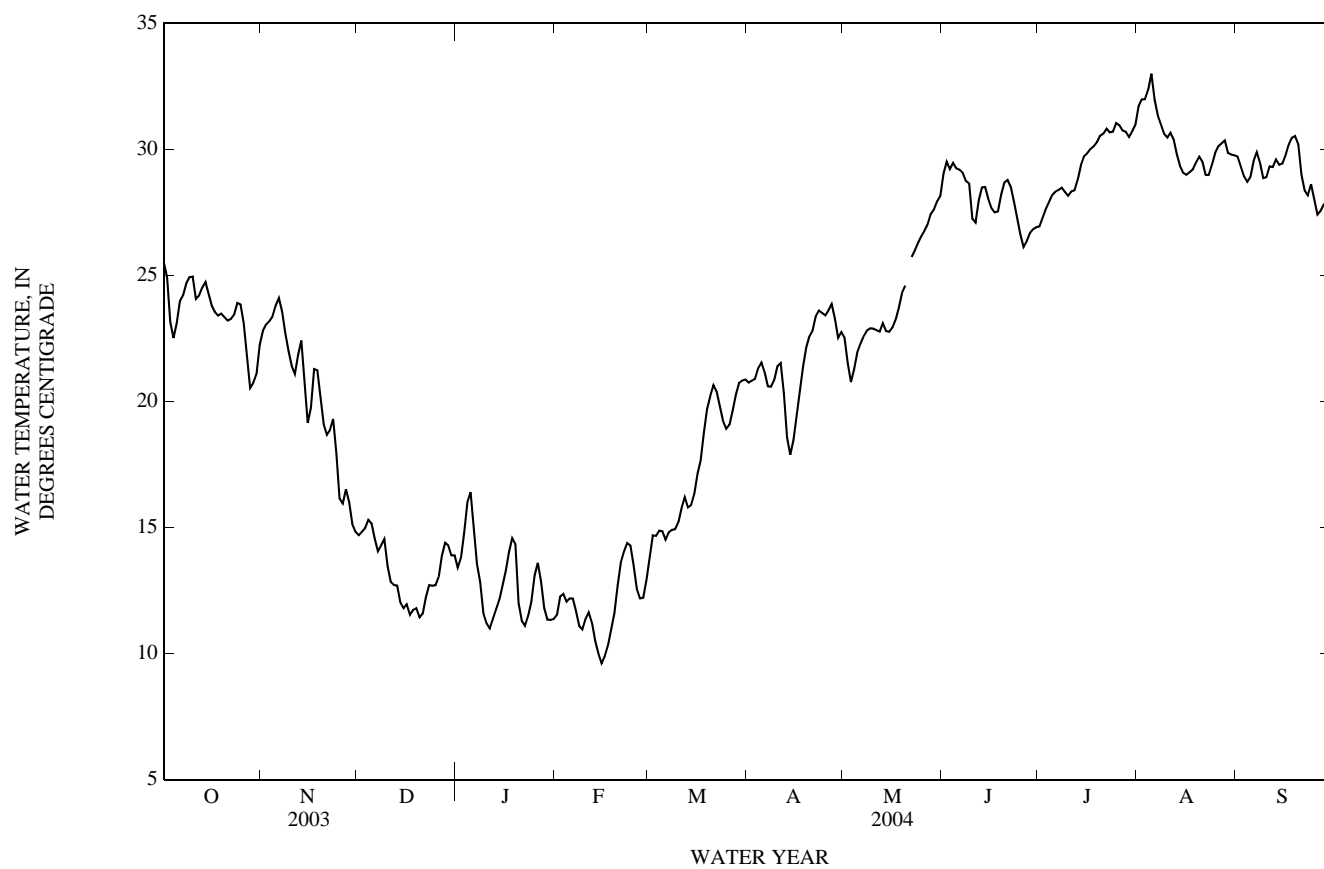
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	25.8	25.1	25.5	23.8	22.2	22.8	14.9	14.6	14.7	13.7	13.2	13.4
2	25.4	24.6	24.9	24.0	22.6	23.1	15.2	14.6	14.8	14.4	13.4	13.8
3	24.8	22.4	23.1	23.9	22.8	23.2	15.3	14.7	15.0	15.5	14.4	14.8
4	22.8	22.2	22.5	23.7	23.1	23.4	15.5	15.1	15.3	16.3	15.5	16.0
5	23.6	22.8	23.1	24.7	23.4	23.8	15.4	14.8	15.2	16.7	15.9	16.4
6	24.2	23.6	24.0	24.5	23.7	24.1	14.8	14.4	14.6	15.9	14.1	15.0
7	24.8	24.0	24.2	24.1	23.0	23.6	14.4	13.9	14.1	14.1	13.0	13.5
8	24.9	24.4	24.7	23.1	22.4	22.7	14.6	13.9	14.3	13.2	12.5	12.8
9	25.5	24.6	24.9	22.5	21.4	22.0	14.8	13.9	14.5	12.5	11.2	11.6
10	25.4	24.4	25.0	21.7	21.1	21.4	14.0	12.9	13.5	11.5	11.0	11.2
11	24.4	23.9	24.1	21.5	20.6	21.1	13.2	12.5	12.8	11.4	10.7	11.0
12	24.6	23.8	24.2	22.4	21.3	21.8	13.0	12.3	12.7	11.6	11.0	11.4
13	24.6	24.4	24.5	22.9	21.9	22.4	13.1	12.2	12.7	12.0	11.5	11.8
14	25.0	24.5	24.7	22.3	18.6	20.8	12.8	11.5	12.0	12.8	11.9	12.1
15	24.6	24.0	24.3	19.7	18.4	19.1	12.3	11.3	11.8	13.2	12.4	12.7
16	24.0	23.5	23.8	20.3	19.2	19.8	12.2	11.7	12.0	14.8	12.8	13.3
17	23.8	23.4	23.6	21.7	20.3	21.3	11.8	11.3	11.5	16.0	13.5	14.0
18	23.6	23.2	23.4	21.7	20.9	21.2	12.2	11.2	11.7	15.3	13.9	14.6
19	23.9	23.2	23.5	20.9	19.4	20.1	12.0	11.6	11.8	15.3	12.8	14.3
20	23.7	23.1	23.3	19.4	18.8	19.1	11.6	11.2	11.4	12.8	11.6	12.0
21	23.7	23.0	23.2	18.8	18.5	18.7	12.0	11.2	11.6	11.6	11.1	11.3
22	23.8	22.8	23.3	19.2	18.6	18.9	12.8	11.8	12.2	11.4	10.9	11.1
23	23.9	23.0	23.4	19.5	18.9	19.3	13.1	12.4	12.7	11.8	11.2	11.5
24	24.2	23.6	23.9	18.9	17.0	18.0	13.1	12.4	12.7	12.6	11.8	12.1
25	24.1	23.7	23.9	17.0	15.7	16.1	13.0	12.5	12.7	13.5	12.6	13.1
26	23.7	22.2	23.1	16.2	15.7	16.0	13.5	12.5	13.0	13.9	13.2	13.6
27	22.2	20.2	21.8	16.8	16.2	16.5	14.2	13.5	13.9	13.3	12.2	12.9
28	21.6	19.3	20.5	16.6	15.7	16.0	14.8	14.1	14.4	12.2	11.6	11.8
29	21.5	19.7	20.7	15.7	14.8	15.1	14.7	14.0	14.3	11.6	11.2	11.4
30	21.8	20.2	21.1	15.0	14.7	14.8	14.2	13.6	13.9	11.4	11.2	11.3
31	23.1	21.7	22.3	---	---	---	14.4	13.6	13.9	11.5	11.3	11.4
MONTH	25.8	19.3	23.5	24.7	14.7	20.2	15.5	11.2	13.3	16.7	10.7	12.8

TEMPERATURE, WATER (DOWNSTREAM), DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	11.8	11.3	11.5	14.3	13.4	13.9	20.9	20.5	20.8	22.9	22.2	22.5
2	12.6	11.8	12.3	15.2	14.1	14.7	21.1	20.5	20.8	22.2	20.9	21.5
3	12.5	12.2	12.4	15.0	14.2	14.7	21.1	20.7	20.9	21.1	20.4	20.8
4	12.3	11.9	12.1	15.1	14.8	14.9	21.7	20.9	21.3	21.8	20.9	21.3
5	12.3	12.1	12.2	15.1	14.6	14.9	21.8	21.3	21.5	22.4	21.5	21.9
6	12.3	12.0	12.2	14.9	14.3	14.5	21.4	20.8	21.2	22.8	22.0	22.3
7	12.0	11.4	11.7	15.3	14.3	14.8	21.1	20.3	20.6	22.9	22.3	22.6
8	11.4	11.0	11.1	15.2	14.6	14.9	21.5	20.3	20.6	23.1	22.6	22.8
9	11.1	10.8	11.0	15.3	14.5	14.9	22.3	20.4	20.9	23.3	22.7	22.9
10	11.6	11.1	11.4	15.6	14.8	15.2	22.2	20.8	21.4	23.1	22.7	22.9
11	11.7	11.5	11.6	16.1	15.4	15.8	21.9	21.2	21.5	23.0	22.5	22.8
12	11.5	10.8	11.2	16.5	16.0	16.2	21.3	19.0	20.3	23.0	22.5	22.8
13	10.8	10.3	10.5	16.1	15.6	15.8	19.0	18.3	18.6	23.4	22.9	23.1
14	10.3	9.6	10.0	16.1	15.8	15.9	18.3	17.5	17.9	22.9	22.7	22.8
15	9.8	9.3	9.6	16.6	16.1	16.3	19.1	17.8	18.5	22.9	22.6	22.8
16	10.2	9.6	9.9	17.7	16.5	17.1	20.1	18.9	19.4	23.2	22.7	22.9
17	10.7	9.9	10.3	18.3	17.1	17.7	21.2	19.8	20.4	23.5	23.0	23.3
18	11.4	10.6	11.0	19.7	18.1	18.8	21.9	20.9	21.4	24.2	23.4	23.7
19	12.2	11.1	11.6	20.1	19.3	19.7	22.8	21.8	22.2	24.8	23.9	24.3
20	13.2	12.2	12.7	20.5	19.8	20.2	23.1	22.3	22.6	25.0	24.4	24.6
21	14.0	13.2	13.6	20.9	20.3	20.6	23.3	22.5	22.8	---	---	---
22	14.3	13.8	14.0	20.8	20.1	20.4	23.9	22.8	23.4	26.1	25.4	25.7
23	14.5	14.3	14.4	20.1	19.6	19.8	23.9	23.4	23.6	26.3	25.7	26.0
24	14.5	14.0	14.3	19.6	18.9	19.2	23.7	23.4	23.5	26.6	26.0	26.3
25	14.0	12.7	13.5	19.3	18.7	18.9	23.5	23.2	23.4	27.0	26.2	26.6
26	12.7	12.3	12.6	19.5	18.7	19.1	24.6	23.1	23.6	27.1	26.5	26.8
27	12.4	11.9	12.2	20.1	19.2	19.6	24.2	23.5	23.9	27.2	26.8	27.0
28	12.4	12.0	12.2	20.9	19.9	20.3	23.8	22.7	23.3	27.8	27.2	27.4
29	13.4	12.4	12.9	20.9	20.4	20.7	22.7	22.3	22.5	28.2	27.3	27.6
30	---	---	---	21.4	20.5	20.8	23.1	22.4	22.8	29.0	27.5	27.9
31	---	---	---	21.5	20.5	20.9	---	---	---	28.7	27.6	28.2
MONTH	14.5	9.3	11.9	21.5	13.4	17.5	24.6	17.5	21.5			
JUNE				JULY			AUGUST			SEPTEMBER		
1	30.0	28.4	29.0	27.2	26.7	26.9	33.1	31.0	31.7	30.0	29.4	29.7
2	30.3	28.9	29.5	27.7	26.9	27.3	33.5	31.2	32.0	29.7	29.1	29.3
3	29.9	29.0	29.2	28.0	27.3	27.6	33.1	31.4	32.0	29.2	28.7	28.9
4	30.9	28.9	29.5	28.3	27.6	27.9	33.0	31.8	32.4	29.0	28.4	28.7
5	29.6	28.9	29.2	28.5	27.8	28.2	33.2	32.7	33.0	29.1	28.7	28.9
6	29.8	28.8	29.2	28.6	28.1	28.3	32.7	31.7	32.0	30.1	29.1	29.5
7	29.5	28.7	29.1	28.7	28.1	28.4	31.7	31.1	31.4	30.2	29.6	29.9
8	28.9	28.6	28.7	28.7	28.3	28.5	31.3	30.8	31.0	30.0	29.1	29.5
9	28.8	28.0	28.6	28.5	28.1	28.3	30.8	30.4	30.6	29.1	28.6	28.9
10	28.0	26.9	27.3	28.6	27.8	28.2	30.6	30.3	30.5	29.4	28.5	28.9
11	27.8	26.5	27.1	28.5	28.1	28.3	30.8	30.5	30.7	30.2	28.8	29.3
12	28.5	27.5	28.0	28.8	28.0	28.4	30.7	30.2	30.4	30.3	28.8	29.3
13	28.9	28.2	28.5	29.2	28.4	28.8	30.2	29.4	29.8	30.2	29.0	29.6
14	28.8	28.2	28.5	29.9	29.0	29.4	29.8	29.0	29.3	29.6	29.0	29.4
15	28.4	27.5	28.0	30.1	29.3	29.7	29.3	28.8	29.1	30.2	29.0	29.4
16	28.2	27.3	27.7	30.2	29.4	29.9	29.3	28.7	29.0	30.2	29.4	29.8
17	27.8	27.2	27.5	30.2	29.8	30.0	29.4	28.7	29.1	30.9	29.8	30.2
18	28.0	27.1	27.5	30.4	29.9	30.1	29.5	28.9	29.2	30.8	30.1	30.5
19	28.7	27.8	28.2	30.7	30.0	30.3	29.8	29.1	29.5	30.9	30.2	30.5
20	29.2	28.4	28.7	30.7	30.3	30.5	30.1	29.4	29.7	30.5	29.9	30.2
21	29.2	28.5	28.8	30.8	30.4	30.6	29.8	29.3	29.5	30.3	27.7	29.0
22	28.7	28.3	28.5	31.2	30.6	30.8	29.3	28.8	29.0	29.4	27.6	28.4
23	28.3	27.5	27.9	31.0	30.4	30.7	29.3	28.7	29.0	29.6	27.6	28.2
24	27.5	27.1	27.3	30.9	30.4	30.7	29.7	29.1	29.4	28.8	28.2	28.6
25	27.1	26.3	26.6	31.4	30.8	31.0	30.3	29.5	29.9	28.9	27.3	28.0
26	26.3	26.0	26.1	31.9	30.4	31.0	30.5	29.7	30.1	28.1	27.0	27.4
27	26.7	26.1	26.4	32.2	30.1	30.7	30.7	29.8	30.2	28.0	27.4	27.6
28	27.0	26.4	26.7	31.2	30.4	30.7	30.5	30.1	30.4	28.6	27.0	27.8
29	26.9	26.6	26.8	31.4	30.1	30.5	30.1	29.7	29.9	28.8	26.9	27.9
30	27.0	26.8	26.9	31.4	30.2	30.7	30.1	29.5	29.8	28.4	27.5	27.9
31	---	---	---	32.4	30.5	31.0	30.1	29.4	29.8	---	---	---
MONTH	30.9	26.0	28.0	32.4	26.7	29.5	33.5	28.7	30.3	30.9	26.9	29.0
YEAR												

TRINITY RIVER BASIN

08067252 Trinity River at Wallisville, TX—Continued



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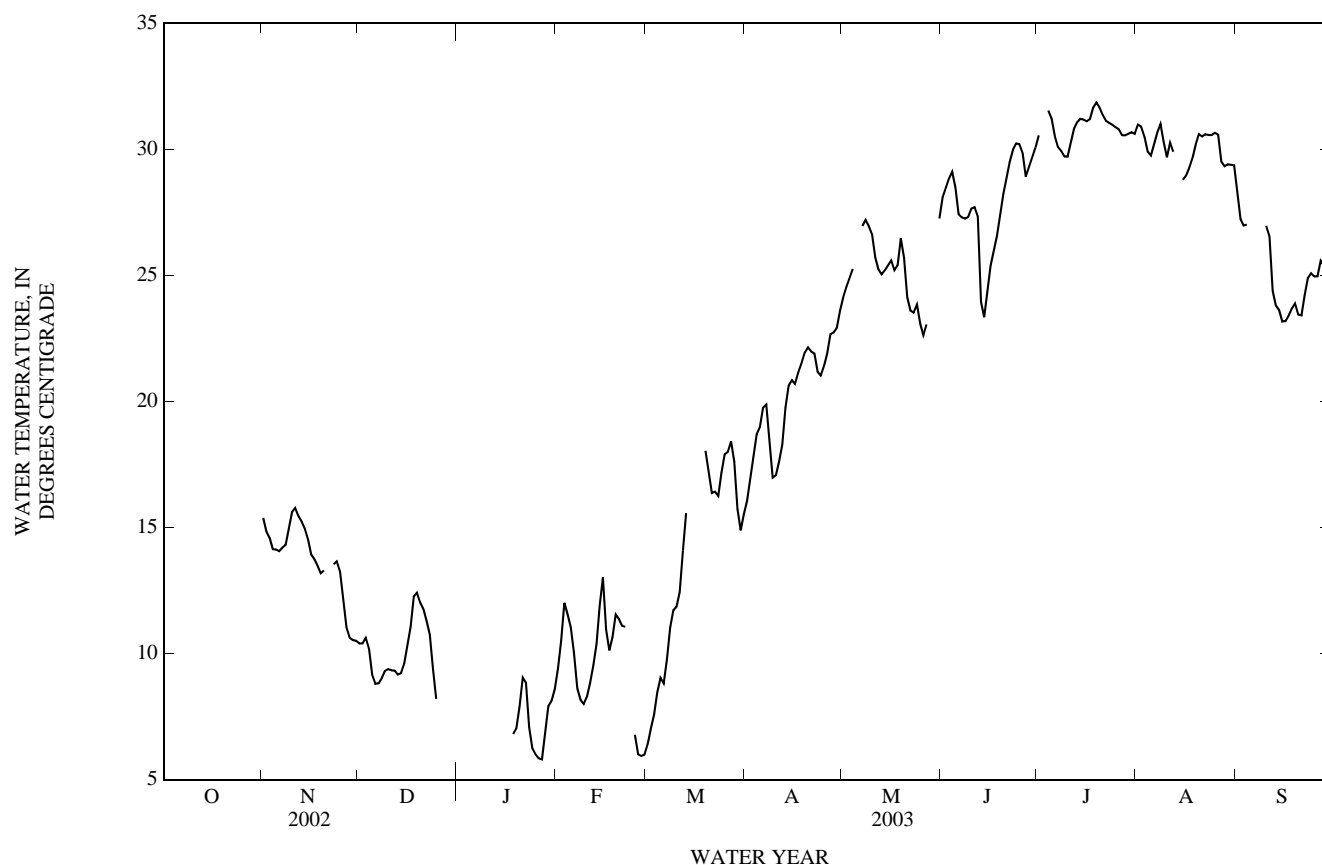
[illegible]

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	9.97	8.92	9.40	6.69	6.20	6.41	17.00	15.25	16.06	24.80	23.54	24.13
2	11.83	9.74	10.52	7.46	6.69	7.04	17.87	16.09	16.93	24.90	24.25	24.54
3	12.43	11.53	12.01	7.91	7.37	7.59	18.31	17.52	17.87	25.44	24.37	24.90
4	12.06	11.33	11.56	9.32	7.91	8.47	19.43	18.14	18.69	25.66	24.90	25.26
5	11.48	10.55	11.05	9.31	8.78	9.03	19.56	18.77	18.98	---	---	---
6	10.58	8.77	10.03	9.39	8.25	8.81	20.81	19.11	19.76	---	---	---
7	9.51	8.11	8.62	10.67	9.03	9.77	20.40	19.22	19.88	27.61	26.38	26.96
8	8.40	8.02	8.17	11.55	10.61	11.02	19.91	17.30	18.47	27.40	27.00	27.20
9	8.19	7.85	8.00	12.27	11.24	11.72	17.36	16.56	16.97	27.28	26.62	26.96
10	8.76	7.85	8.29	12.09	11.56	11.86	17.80	16.41	17.07	27.05	26.46	26.63
11	9.36	8.35	8.84	13.40	11.75	12.45	18.53	17.33	17.62	26.59	25.27	25.72
12	10.03	9.07	9.52	15.05	13.36	14.08	19.22	17.94	18.28	25.65	24.80	25.24
13	10.90	10.00	10.38	16.18	15.04	15.57	20.56	19.14	19.76	25.30	24.73	25.04
14	13.00	10.88	11.92	---	---	---	21.35	19.98	20.63	25.58	24.80	25.20
15	13.25	12.20	13.02	---	---	---	21.18	20.61	20.85	25.50	25.20	25.40
16	12.25	10.16	10.94	---	---	---	21.28	20.15	20.70	26.10	25.10	25.60
17	10.56	9.65	10.13	---	---	---	21.75	20.59	21.14	25.69	24.84	25.21
18	11.30	10.21	10.65	---	---	---	21.83	21.15	21.51	26.27	24.72	25.41
19	11.68	11.28	11.55	18.31	17.69	18.04	22.69	21.39	21.95	27.30	25.78	26.46
20	11.55	11.23	11.37	18.00	16.53	17.20	22.59	21.71	22.15	27.20	24.90	25.70
21	11.23	11.00	11.10	16.85	16.01	16.37	22.66	21.37	21.98	24.87	23.67	24.14
22	11.65	10.72	11.06	16.76	16.18	16.42	22.41	21.59	21.90	24.07	23.35	23.61
23	---	---	---	17.16	15.78	16.25	21.61	20.80	21.18	23.79	23.30	23.53
24	---	---	---	17.99	16.44	17.18	21.81	20.45	21.03	24.30	23.50	23.84
25	7.77	6.15	6.78	18.45	17.43	17.90	21.99	20.80	21.41	25.11	22.08	23.09
26	6.18	5.83	6.01	18.58	17.37	18.00	22.73	21.22	21.92	23.12	22.10	22.63
27	6.05	5.81	5.94	18.98	17.82	18.41	23.29	22.09	22.67	23.88	22.58	23.06
28	6.22	5.79	5.99	18.78	16.55	17.61	23.11	22.49	22.74	---	---	---
29	---	---	---	16.55	15.15	15.73	23.73	22.45	22.92	---	---	---
30	---	---	---	15.17	14.55	14.89	24.10	23.10	23.60	27.00	---	---
31	---	---	---	16.36	14.92	15.54	---	---	---	28.20	26.55	27.26
MONTH	---	---	---	---	---	---	24.10	15.25	20.22	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.74	27.51	28.09	31.22	30.03	30.56	31.62	30.55	30.98	29.10	27.69	28.31
2	28.98	28.03	28.46	---	---	---	31.50	30.32	30.91	27.69	27.08	27.24
3	29.55	28.25	28.84	31.92	---	---	31.20	30.17	30.50	27.28	26.86	26.98
4	29.59	28.65	29.11	32.10	31.06	31.54	30.39	29.43	29.91	27.41	26.80	27.02
5	29.24	27.79	28.49	31.81	31.01	31.23	30.34	29.09	29.76	---	---	---
6	27.79	27.16	27.43	31.03	30.33	30.54	30.96	29.58	30.22	---	---	---
7	27.99	26.66	27.30	30.46	29.76	30.10	31.46	30.06	30.67	---	---	---
8	27.82	26.85	27.25	30.36	29.58	29.94	31.34	30.70	31.00	---	---	---
9	27.93	26.82	27.32	30.17	29.30	29.72	31.13	29.66	30.28	---	---	---
10	28.09	27.27	27.65	30.27	29.16	29.71	30.45	29.06	29.69	27.28	26.84	26.96
11	28.27	27.24	27.71	31.01	29.66	30.27	30.95	29.73	30.28	27.49	24.71	26.55
12	27.95	26.36	27.35	31.39	30.26	30.81	30.38	29.51	29.90	24.75	24.12	24.39
13	26.36	22.24	23.96	31.63	30.54	31.07	29.60	---	---	24.21	23.68	23.80
14	24.14	22.73	23.34	31.79	30.70	31.21	29.10	---	---	23.88	23.43	23.63
15	25.21	23.84	24.40	31.53	30.76	31.19	28.90	28.64	28.79	23.43	23.08	23.18
16	26.11	24.84	25.39	31.61	30.68	31.12	29.25	28.82	28.96	23.40	23.12	23.19
17	26.51	25.64	26.01	31.82	30.68	31.21	29.70	29.08	29.27	23.63	23.24	23.40
18	27.29	26.08	26.58	32.26	31.11	31.66	30.00	29.40	29.66	24.36	23.37	23.69
19	28.21	26.86	27.44	32.30	31.42	31.86	30.67	29.85	30.19	24.83	23.49	23.89
20	29.00	27.75	28.24	32.20	31.17	31.67	31.13	30.32	30.61	23.90	23.29	23.45
21	29.57	28.36	28.90	31.83	30.84	31.37	30.83	30.32	30.51	23.64	23.36	23.42
22	30.17	28.97	29.51	31.73	30.55	31.14	30.95	30.41	30.60	25.17	23.44	24.22
23	30.56	29.49	29.99	31.48	30.57	31.05	30.75	30.39	30.57	25.28	24.58	24.90
24	30.64	29.85	30.24	31.53	30.41	30.98	30.82	30.47	30.57	25.37	24.79	25.09
25	30.63	29.80	30.21	31.36	30.38	30.88	31.53	30.12	30.66	25.20	24.85	24.96
26	30.52	29.13	29.86	31.19	30.31	30.80	30.97	29.99	30.59	25.15	24.88	24.97
27	29.51	28.35	28.91	31.10	30.03	30.57	30.03	29.26	29.52	26.34	24.99	25.58
28	29.97	28.73	29.31	31.14	29.98	30.56	29.44	29.15	29.33	25.78	25.04	25.38
29	30.31	29.15	29.68	31.18	30.16	30.62	29.76	29.17	29.41	25.14	24.37	24.57
30	30.61	29.61	30.07	31.22	30.15	30.68	29.88	29.19	29.39	24.39	23.72	23.92
31	---	---	---	30.91	30.38	30.61	29.53	29.10	29.37	---	---	---
MONTH	30.64	22.24	27.90	---	---	---	31.62	---	---	---	---	---

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued



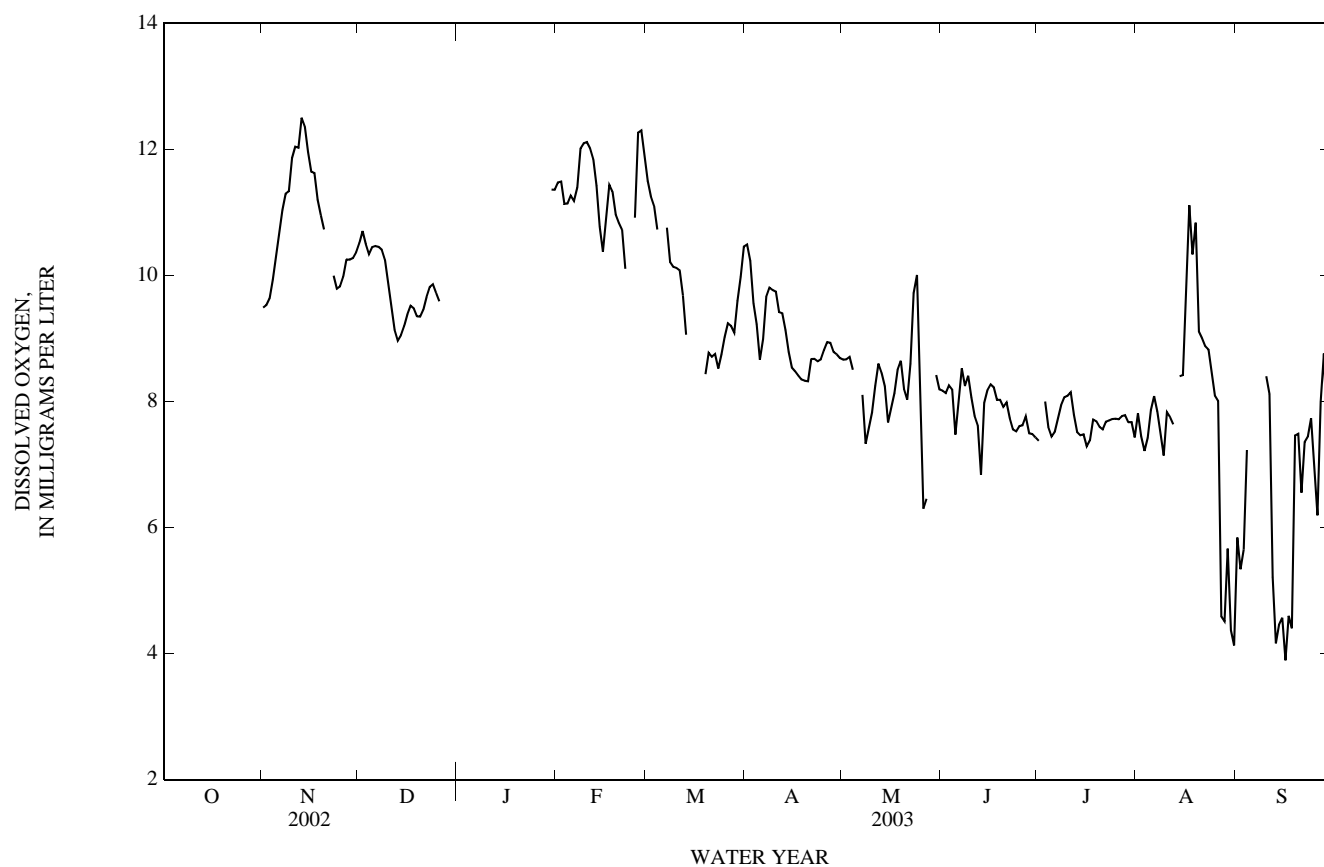
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.59	11.33	11.47	11.71	11.33	11.50	10.77	10.21	10.49	9.13	8.22	8.66
2	11.58	11.35	11.49	11.47	10.99	11.25	10.63	9.77	10.23	9.05	8.32	8.67
3	11.39	10.97	11.14	11.34	10.83	11.10	10.01	9.24	9.56	9.32	8.23	8.71
4	11.50	11.01	11.14	11.10	10.06	10.73	9.54	8.94	9.22	9.05	8.00	8.50
5	11.54	11.14	11.27	---	---	---	9.39	8.04	8.67	---	---	---
6	11.25	10.99	11.18	---	---	---	10.17	7.44	8.99	---	---	---
7	11.91	10.89	11.40	10.90	10.47	10.76	10.25	7.63	9.66	8.83	7.40	8.10
8	12.17	11.64	12.01	10.55	9.93	10.21	10.10	9.42	9.81	8.06	6.77	7.33
9	12.19	11.82	12.10	10.25	9.97	10.14	10.09	8.93	9.77	8.01	7.30	7.57
10	12.26	11.95	12.12	10.24	9.89	10.12	9.98	9.49	9.74	8.06	7.63	7.83
11	12.11	11.85	12.02	10.23	9.81	10.08	10.23	9.01	9.42	8.79	7.85	8.25
12	11.93	11.63	11.85	9.97	9.17	9.68	10.36	8.99	9.40	9.21	8.23	8.60
13	11.77	11.09	11.42	9.54	8.45	9.06	9.45	8.90	9.13	8.83	8.15	8.45
14	11.11	10.48	10.77	---	---	---	9.03	8.52	8.79	8.46	7.94	8.24
15	10.58	10.20	10.38	---	---	---	8.72	8.33	8.54	8.20	7.28	7.67
16	11.36	10.54	10.94	---	---	---	8.67	8.27	8.48	8.38	7.21	7.90
17	11.58	11.28	11.44	---	---	---	8.57	8.17	8.41	8.84	7.63	8.13
18	11.47	11.00	11.33	---	---	---	8.55	8.02	8.35	9.40	7.86	8.50
19	11.16	10.76	10.97	8.61	8.21	8.43	8.54	8.07	8.33	9.75	7.73	8.65
20	10.98	10.68	10.84	9.12	8.51	8.77	8.65	8.06	8.32	8.43	7.76	8.20
21	10.89	10.53	10.73	8.91	8.40	8.71	9.05	8.42	8.67	8.67	7.54	8.03
22	10.63	9.62	10.10	9.07	8.39	8.75	8.90	8.49	8.68	10.00	7.27	8.60
23	---	---	---	9.36	7.56	8.52	8.73	8.48	8.64	10.90	8.17	9.72
24	10.61	---	---	8.95	8.50	8.75	8.99	8.45	8.67	10.67	8.27	10.01
25	11.85	10.49	10.92	9.25	8.72	9.02	9.08	8.56	8.82	10.96	5.77	7.70
26	12.51	11.82	12.27	9.43	9.06	9.24	9.19	8.71	8.94	7.57	5.40	6.30
27	12.49	12.01	12.30	9.35	9.05	9.20	9.16	8.62	8.93	7.97	5.47	6.45
28	12.15	11.58	11.88	9.32	8.90	9.09	8.97	8.52	8.79	---	---	---
29	---	---	---	10.14	9.06	9.59	9.24	8.19	8.75	---	---	---
30	---	---	---	10.31	9.72	9.98	9.02	8.49	8.69	8.70	7.99	8.42
31	---	---	---	11.18	10.05	10.46	---	---	---	8.72	7.58	8.19
MONTH	---	---	---	---	---	---	10.77	7.44	9.03	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.83	7.57	8.17	7.88	6.97	7.38	8.47	7.24	7.81	7.06	5.03	5.84
2	8.89	7.47	8.13	---	---	---	8.25	6.70	7.45	6.20	4.47	5.34</

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued

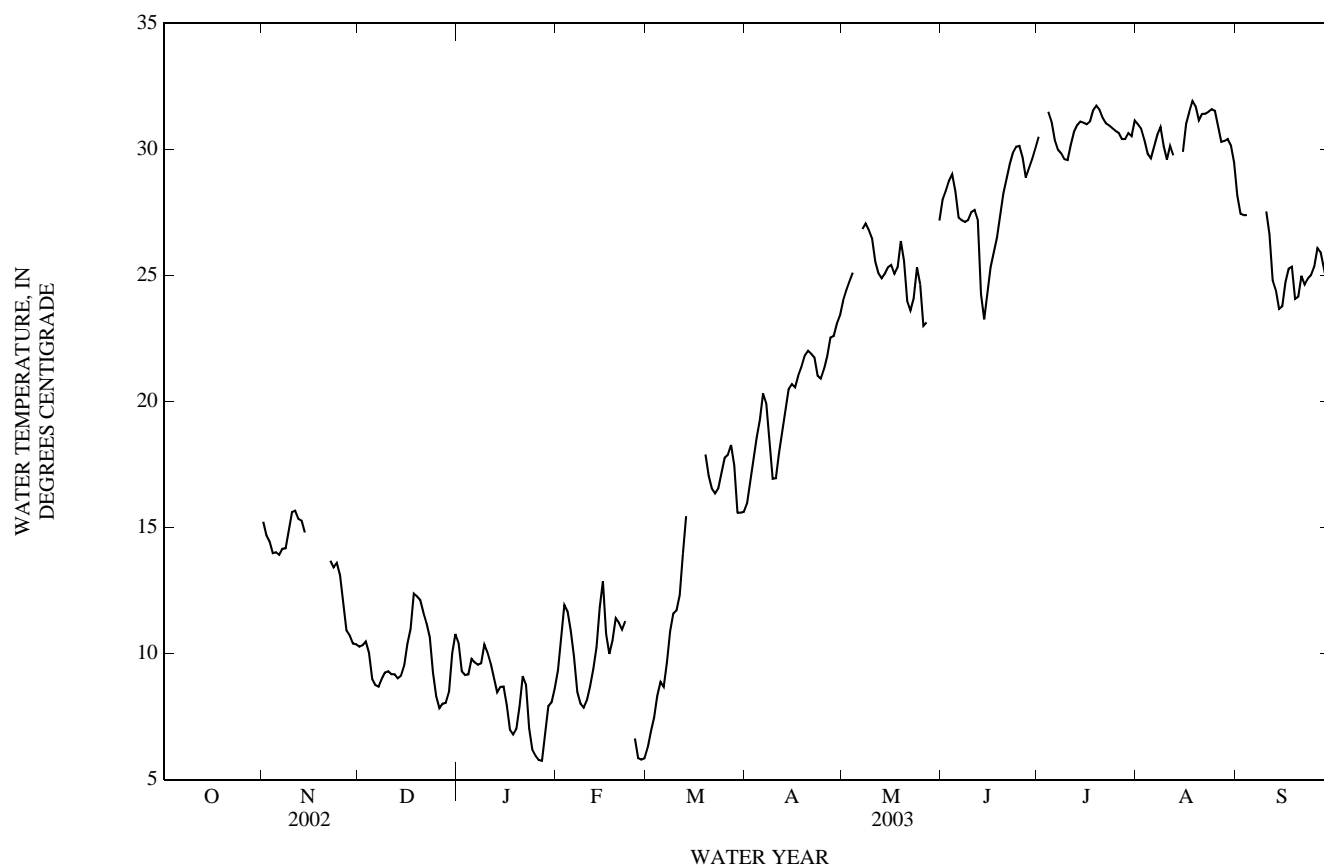

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	15.75	14.88	15.23	10.47	10.05	10.28	10.73	10.04	10.42
2	---	---	---	14.89	14.48	14.69	10.97	9.87	10.33	10.04	9.05	9.30
3	---	---	---	14.51	14.32	14.45	10.53	10.38	10.48	9.48	8.80	9.15
4	---	---	---	14.32	13.83	13.98	10.47	9.40	10.03	9.53	8.80	9.17
5	---	---	---	14.40	13.66	14.02	9.43	8.77	9.00	10.73	9.16	9.79
6	---	---	---	14.26	13.56	13.92	9.09	8.45	8.75	10.05	9.24	9.65
7	---	---	---	14.71	13.67	14.16	8.94	8.40	8.69	10.07	9.14	9.55
8	---	---	---	14.62	13.71	14.18	9.28	8.76	9.00	10.32	9.03	9.62
9	---	---	---	15.53	14.29	14.86	9.75	9.07	9.25	11.26	9.92	10.36
10	---	---	---	16.45	15.01	15.61	9.50	9.19	9.30	10.57	9.86	10.05
11	---	---	---	15.98	15.37	15.67	9.28	9.13	9.18	9.90	9.37	9.61
12	---	---	---	15.68	15.11	15.34	9.30	9.11	9.18	9.40	8.65	9.06
13	---	---	---	15.77	14.91	15.27	9.22	8.77	9.02	8.70	8.26	8.47
14	---	---	---	15.09	14.60	14.81	9.45	8.79	9.12	9.55	8.20	8.68
15	---	---	---	---	14.22	---	10.16	9.03	9.52	9.22	8.43	8.70
16	---	---	---	---	---	---	10.96	10.02	10.39	8.45	7.30	7.96
17	---	---	---	---	---	---	12.11	10.35	10.99	7.33	6.74	6.98
18	---	---	---	---	---	---	12.94	12.02	12.38	7.22	6.45	6.79
19	---	---	---	---	---	---	12.49	12.08	12.27	7.48	6.60	7.01
20	---	---	---	---	---	---	12.75	11.78	12.13	8.74	7.30	7.91
21	---	---	---	14.30	---	---	11.89	11.43	11.63	9.47	8.73	9.11
22	---	---	---	14.34	13.16	13.68	11.47	10.94	11.20	9.35	7.92	8.78
23	---	---	---	13.72	13.10	13.42	11.13	10.08	10.65	7.92	6.50	7.03
24	---	---	---	14.17	13.19	13.59	10.08	8.41	9.24	6.50	5.90	6.18
25	---	---	---	13.83	12.47	13.11	8.91	7.97	8.31	6.08	5.85	5.94
26	---	---	---	12.48	11.49	11.99	8.11	7.72	7.84	5.86	5.56	5.78
27	---	---	---	11.49	10.66	10.92	9.02	7.52	8.01	6.29	5.38	5.74
28	---	---	---	11.39	10.31	10.72	8.49	7.55	8.05	8.18	6.14	6.89
29	---	---	---	10.63	10.21	10.40	9.17	8.11	8.48	8.18	7.55	7.92
30	---	---	---	10.58	10.21	10.37	11.33	9.14	10.01	8.36	7.90	8.06
31	---	---	---	---	---	---	11.07	10.59	10.78	9.46	8.01	8.62
MONTH	---	---	---	---	---	---	12.94	7.52	9.79	11.26	5.38	8.33

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.02	8.79	9.33	6.55	6.05	6.27	16.87	15.09	15.96	24.70	23.39	24.01
2	11.76	9.69	10.52	7.32	6.54	6.91	17.83	15.96	16.82	24.82	24.09	24.42
3	12.31	11.47	11.93	7.77	7.22	7.47	18.19	17.36	17.73	25.30	24.22	24.77
4	12.08	11.23	11.68	9.18	7.75	8.34	19.28	17.98	18.56	25.52	24.75	25.11
5	11.48	10.39	10.91	9.16	8.63	8.88	20.28	18.64	19.27	---	---	---
6	10.41	8.91	9.89	9.27	8.10	8.68	21.43	19.44	20.32	26.91	---	---
7	9.39	7.93	8.48	10.52	8.87	9.65	20.70	19.12	19.93	27.52	26.24	26.85
8	8.25	7.87	8.01	11.41	10.46	10.88	19.78	17.27	18.34	27.26	26.81	27.06
9	8.04	7.70	7.85	12.12	11.09	11.59	17.51	16.48	16.94	27.13	26.47	26.81
10	8.66	7.69	8.15	11.93	11.41	11.72	17.86	16.28	16.95	26.89	26.28	26.48
11	9.21	8.19	8.71	13.24	11.59	12.32	19.46	17.18	17.97	26.44	25.08	25.56
12	9.87	8.93	9.39	14.91	13.22	13.96	20.91	17.79	18.83	25.49	24.64	25.09
13	10.78	9.86	10.25	16.08	14.90	15.45	20.47	18.98	19.64	25.15	24.58	24.89
14	12.87	10.75	11.82	---	---	---	21.25	19.83	20.50	25.49	24.64	25.07
15	13.09	12.05	12.87	---	---	---	21.02	20.46	20.69	25.58	25.13	25.32
16	12.08	9.98	10.77	---	---	---	21.13	19.98	20.56	25.93	24.95	25.41
17	10.41	9.51	9.99	---	---	---	21.60	20.47	21.02	25.50	24.69	25.07
18	11.16	10.07	10.52	---	---	---	21.69	21.01	21.37	26.12	24.57	25.32
19	11.53	11.16	11.41	18.21	17.53	17.90	22.56	21.26	21.83	27.22	25.63	26.36
20	11.40	11.08	11.23	17.83	16.40	17.06	22.43	21.57	22.01	27.03	24.73	25.57
21	11.08	10.85	10.95	17.54	15.87	16.54	22.68	21.23	21.89	24.73	23.51	23.98
22	12.37	10.65	11.29	16.87	16.01	16.35	22.24	21.44	21.75	24.28	23.23	23.62
23	---	---	---	17.57	15.71	16.56	21.45	20.62	21.02	25.31	23.22	24.09
24	---	7.37	---	17.98	16.43	17.15	21.60	20.30	20.91	26.61	24.32	25.31
25	7.64	5.93	6.63	18.37	17.29	17.77	21.83	20.66	21.28	25.99	23.85	24.65
26	6.02	5.68	5.86	18.52	17.22	17.88	22.60	21.09	21.80	23.85	22.19	23.00
27	5.90	5.65	5.79	18.88	17.67	18.27	23.16	21.93	22.54	24.41	22.43	23.14
28	6.07	5.64	5.85	18.62	16.39	17.46	22.95	22.33	22.59	---	23.14	---
29	---	---	---	16.44	15.01	15.59	24.54	22.31	23.08	---	---	---
30	---	---	---	16.88	14.49	15.59	24.05	22.93	23.42	26.91	---	---
31	---	---	---	16.22	14.90	15.62	---	---	---	28.15	26.41	27.18
MONTH	---	---	---	---	---	---	24.54	15.09	20.18	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28.62	27.37	28.00	31.17	29.87	30.50	31.61	30.39	31.00	28.95	27.53	28.16
2	29.11	27.87	28.35	---	---	---	31.45	30.17	30.83	28.16	26.98	27.45
3	29.49	28.10	28.75	32.04	---	---	31.05	30.01	30.36	28.02	26.73	27.39
4	29.68	28.48	29.01	32.09	30.91	31.49	30.37	29.27	29.82	28.0	26.8	27.4
5	29.06	27.59	28.33	31.58	30.84	31.11	30.29	28.96	29.64	---	26.6	---
6	27.61	27.01	27.29	30.87	30.14	30.38	30.82	29.42	30.10	---	---	---
7	27.93	26.51	27.19	30.51	29.60	29.99	31.38	29.91	30.58	---	---	---
8	27.64	26.69	27.12	30.35	29.42	29.85	31.24	30.54	30.88	---	---	---
9	27.78	26.66	27.20	30.10	29.13	29.61	30.98	29.50	30.12	28.69	---	---
10	27.95	27.12	27.52	30.15	29.00	29.58	30.34	28.92	29.60	28.47	26.91	27.54
11	28.14	27.09	27.60	30.99	29.50	30.17	30.79	29.58	30.14	27.41	25.62	26.63
12	27.78	26.20	27.20	31.31	30.12	30.69	30.21	29.36	29.76	25.62	24.07	24.81
13	26.20	22.77	24.26	31.50	30.39	30.96	---	---	---	25.74	23.59	24.41
14	24.06	22.57	23.26	31.64	30.54	31.10	29.65	---	---	24.72	23.28	23.67
15	25.18	23.69	24.37	31.43	30.62	31.06	32.11	28.55	29.90	25.03	22.99	23.77
16	26.04	24.69	25.33	31.50	30.52	31.00	32.97	29.65	31.02	25.70	23.65	24.74
17	26.47	25.48	25.92	31.74	30.53	31.11	32.76	30.26	31.49	26.33	24.29	25.27
18	27.37	25.93	26.51	32.25	30.95	31.55	33.35	30.84	31.92	25.95	24.83	25.34
19	28.18	26.70	27.38	32.19	31.25	31.74	32.70	30.82	31.70	25.01	23.55	24.07
20	30.05	27.63	28.26	32.18	31.00	31.57	31.78	30.46	31.15	25.61	23.21	24.16
21	29.85	28.20	28.84	31.82	30.68	31.25	32.92	30.28	31.41	25.88	24.38	24.99
22	30.20	28.82	29.42	31.67	30.38	31.03	32.59	30.57	31.41	25.22	23.66	24.64
23	30.45	29.33	29.87	31.41	30.39	30.95	33.21	30.46	31.49	25.46	24.43	24.88
24	30.55	29.70	30.11	31.37	30.24	30.84	32.96	30.60	31.59	25.54	24.51	25.02
25	30.54	29.64	30.14	31.27	30.23	30.74	32.83	30.63	31.53	26.30	24.76	25.35
26	30.35	29.00	29.68	31.05	30.15	30.66	32.54	30.15	30.91	27.15	25.19	26.08
27	29.95	28.23	28.88	30.95	29.86	30.41	31.81	29.50	30.30	26.46	25.52	25.92
28	30.17	28.61	29.27	31.00	29.84	30.41	31.48	29.34	30.34	25.66	24.62	25.30
29	30.25	28.98	29.63	31.82	30.00	30.65	32.16	29.29	30.41	25.18	24.24	24.66
30	30.67	29.49	30.06	31.10	29.99	30.52	31.42	29.38	30.16	24.61	23.63	24.10
31	---	---	---	32.55	30.25	31.15	30.07	28.95	29.47	---	---	---
MONTH	30.67	22.57	27.82	---	---	---	---	---	---	---	---	---

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued



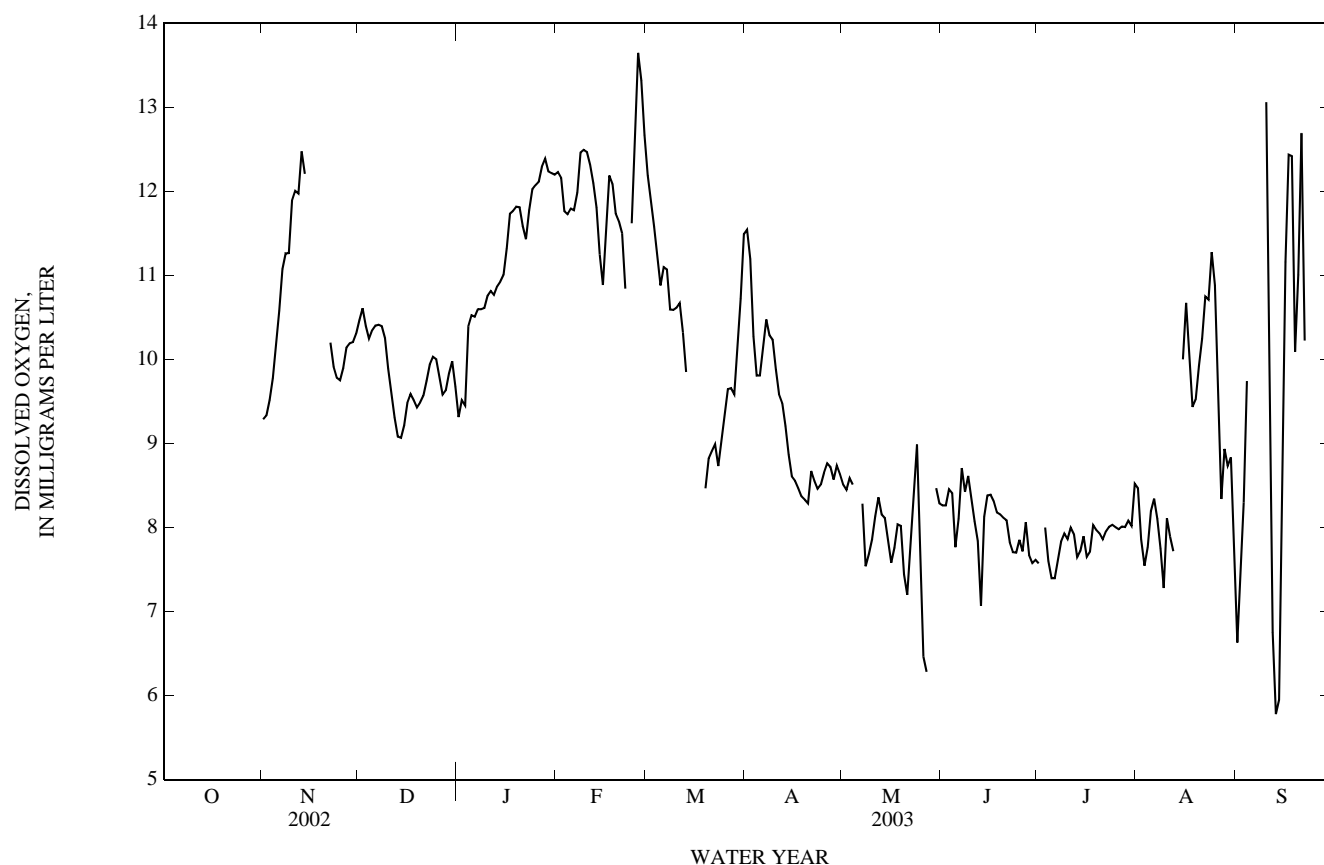
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	9.51	9.14	9.29	10.61	10.33	10.47	9.44	9.22	9.32
2	---	---	---	9.57	9.11	9.33	10.93	10.51	10.61	9.66	9.39	9.52
3	---	---	---	9.77	9.20	9.52	10.56	10.24	10.40	9.55	9.23	9.45
4	---	---	---	10.11	9.41	9.78	10.31	10.20	10.25	10.86	9.41	10.39
5	---	---	---	10.75	9.40	10.20	10.49	10.26	10.35	10.67	10.33	10.53
6	---	---	---	11.22	10.24	10.58	10.51	10.28	10.40	10.70	10.26	10.51
7	---	---	---	11.79	10.46	11.08	10.52	10.29	10.41	10.68	10.48	10.60
8	---	---	---	11.69	10.81	11.26	10.50	10.30	10.40	10.72	10.48	10.60
9	---	---	---	11.73	10.72	11.27	10.45	10.07	10.26	10.79	10.48	10.61
10	---	---	---	12.68	11.10	11.89	10.11	9.71	9.89	10.92	10.65	10.76
11	---	---	---	12.52	11.56	12.01	9.79	9.19	9.59	10.92	10.67	10.82
12	---	---	---	12.65	11.51	11.98	9.45	9.07	9.31	10.85	10.66	10.77
13	---	---	---	13.18	11.86	12.48	9.21	8.97	9.08	11.03	10.63	10.87
14	---	---	---	12.54	11.81	12.21	9.23	8.81	9.07	11.21	10.73	10.93
15	---	---	---	---	11.59	---	9.38	8.89	9.22	11.11	10.86	11.01
16	---	---	---	---	---	---	9.85	9.24	9.48	11.78	10.84	11.32
17	---	---	---	---	---	---	9.79	9.34	9.59	11.86	11.60	11.73
18	---	---	---	---	---	---	9.68	9.32	9.52	11.95	11.60	11.77
19	---	---	---	---	---	---	9.55	9.26	9.43	11.91	11.67	11.82
20	---	---	---	---	---	---	9.60	9.40	9.49	11.93	11.70	11.81
21	---	---	---	10.59	---	---	9.85	9.36	9.57	11.75	11.37	11.59
22	---	---	---	10.41	10.01	10.20	9.91	9.57	9.75	11.70	11.26	11.43
23	---	---	---	10.13	9.76	9.92	10.10	9.82	9.94	12.32	11.45	11.77
24	---	---	---	10.01	9.65	9.78	10.11	9.98	10.03	12.15	11.90	12.03
25	---	---	---	9.92	9.58	9.75	10.08	9.93	10.00	12.14	11.95	12.07
26	---	---	---	10.09	9.75	9.90	9.98	9.55	9.78	12.36	11.97	12.11
27	---	---	---	10.26	10.05	10.14	9.73	9.41	9.58	12.56	12.04	12.30
28	---	---	---	10.40	10.09	10.19	9.83	9.29	9.63	12.54	12.31	12.39
29	---	---	---	10.34	9.98	10.21	9.99	9.72	9.83	12.33	12.15	12.24
30	---	---	---	10.55	10.06	10.31	10.29	9.74	9.98	12.27	12.12	12.22
31	---	---	---	---	---	---	9.89	9.41	9.68	12.33	12.09	12.20
MONTH	---	---	---	---	---	---	10.93	8.81	9.84	12.56	9.22	11.21

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.38	12.06	12.23	12.49	11.90	12.19	12.01	11.14	11.54	8.92	8.20	8.51
2	12.28	11.99	12.16	12.12	11.70	11.88	11.83	10.46	11.20	8.86	8.07	8.45
3	11.99	11.59	11.76	11.98	11.35	11.58	10.91	9.89	10.27	9.15	8.12	8.59
4	11.93	11.54	11.73	11.41	10.93	11.23	10.32	9.42	9.81	8.99	8.05	8.51
5	11.90	11.63	11.80	10.98	10.74	10.88	10.94	8.75	9.81	---	---	---
6	11.85	11.71	11.78	11.24	10.87	11.10	11.41	7.73	10.12	---	---	---
7	12.39	11.69	11.99	11.17	10.87	11.07	11.29	8.42	10.48	8.86	7.59	8.28
8	12.59	12.30	12.46	10.92	10.43	10.60	10.65	9.86	10.29	8.19	7.12	7.54
9	12.56	12.39	12.49	10.72	10.46	10.59	10.62	9.69	10.23	8.13	7.37	7.68
10	12.60	12.34	12.47	10.76	10.44	10.62	10.26	9.55	9.88	8.08	7.65	7.86
11	12.46	12.15	12.32	10.80	10.52	10.67	10.36	9.15	9.58	8.64	7.72	8.13
12	12.27	11.89	12.10	10.57	9.98	10.32	10.23	9.04	9.48	8.81	7.94	8.36
13	12.00	11.56	11.81	10.18	9.45	9.85	9.53	8.90	9.21	8.51	7.78	8.16
14	11.59	10.95	11.25	---	---	---	9.20	8.58	8.87	8.50	7.47	8.11
15	11.15	10.69	10.89	---	---	---	8.84	8.37	8.61	8.45	7.37	7.84
16	12.07	11.11	11.59	---	---	---	8.77	8.25	8.56	8.04	7.01	7.58
17	12.37	11.98	12.19	---	---	---	8.68	8.23	8.47	8.47	7.31	7.76
18	12.24	11.80	12.09	---	---	---	8.63	8.08	8.37	8.92	7.41	8.04
19	11.98	11.62	11.74	8.82	8.07	8.47	8.62	8.05	8.33	9.10	7.06	8.02
20	11.77	11.52	11.64	9.16	8.58	8.82	8.67	8.02	8.29	7.62	7.17	7.44
21	11.66	11.29	11.50	9.28	8.74	8.91	9.34	8.36	8.67	7.65	6.72	7.20
22	11.47	10.16	10.84	9.29	8.66	8.99	8.84	8.38	8.56	9.06	6.72	7.80
23	---	---	---	9.29	8.04	8.73	8.55	8.37	8.46	9.25	7.17	8.32
24	12.15	10.71	11.62	9.33	8.82	9.06	8.72	8.32	8.51	9.50	8.37	8.99
25	13.53	11.96	12.65	9.63	8.99	9.36	8.86	8.45	8.65	9.09	7.04	7.90
26	13.79	13.47	13.65	9.89	9.42	9.65	9.01	8.55	8.76	7.27	5.27	6.46
27	13.71	12.91	13.32	9.86	9.49	9.66	9.01	8.51	8.72	7.41	5.25	6.28
28	13.08	12.22	12.67	9.85	9.37	9.59	8.74	8.41	8.57	---	---	---
29	---	---	---	10.90	9.65	10.22	9.59	8.39	8.74	---	---	---
30	---	---	---	11.07	10.42	10.73	8.97	8.48	8.63	8.70	8.09	8.47
31	---	---	---	11.89	11.00	11.49	---	---	---	8.79	7.90	8.29
MONTH	---	---	---	---	---	---	12.01	7.73	9.26	---	---	---
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.89	7.73	8.26	8.22	7.00	7.57	9.30	7.78	8.47	7.33	5.91	6.63
2	9.18	7.58	8.26	---	---	---	8.77	7.05	7.86	9.14	6.23	7.57
3	9.43	7.59	8.45	8.55	7.32	8.00	8.07	7.02	7.54	9.46	5.84	8.30
4	9.33	7.64	8.41	8.38	6.97	7.60	8.68	7.01	7.77	11.99	7.62	9.74
5	8.24	7.13	7.77	8.05	6.89	7.40	9.65	7.19	8.20	---	---	---
6	9.08	7.13	8.11	8.04	6.89	7.40	9.69	7.19	8.34	---	---	---
7	9.90	7.81	8.71	8.40	7.01	7.62	9.58	7.08	8.10	---	---	---
8	9.43	7.64	8.42	8.74	7.13	7.84	9.04	6.81	7.75	---	---	---
9	9.51	7.84	8.61	8.79	7.19	7.93	8.14	6.67	7.28	---	---	---
10	8.97	7.63	8.34	8.65	7.04	7.86	9.87	7.06	8.11	14.41	11.66	13.06
11	8.47	7.63	8.07	8.88	7.23	8.00	9.01	6.97	7.89	12.46	6.44	9.23
12	8.32	7.42	7.84	8.75	7.22	7.92	9.14	6.72	7.72	7.23	5.46	6.75
13	7.79	5.88	7.07	8.21	6.81	7.65	---	---	---	7.45	3.86	5.78
14	8.45	7.57	8.13	8.70	6.86	7.72	---	---	---	7.20	4.64	5.95
15	8.66	8.03	8.38	8.71	7.08	7.90	12.70	7.79	10.00	11.90	5.10	7.56
16	8.68	8.11	8.39	8.14	7.07	7.65	12.11	9.81	10.67	13.29	9.38	11.16
17	8.70	8.01	8.31	8.48	7.03	7.71	10.53	8.80	10.07	14.35	10.49	12.44
18	8.61	7.84	8.18	9.04	7.02	8.03	9.91	8.73	9.44	13.68	10.95	12.42
19	8.78	7.74	8.16	8.82	6.98	7.97	10.69	8.36	9.53	12.36	7.97	10.09
20	8.84	7.57	8.12	8.61	7.23	7.93	11.04	8.68	9.92	13.74	8.85	11.01
21	8.92	7.48	8.09	8.51	7.27	7.86	11.50	9.03	10.25	14.31	11.30	12.69
22	8.47	7.33	7.82	8.73	7.33	7.96	11.48	9.85	10.75	13.40	7.94	10.22
23	8.33	7.26	7.71	8.70	7.39	8.01	12.44	9.06	10.71	---	---	---
24	8.32	7.13	7.70	8.55	7.51	8.03	12.27	10.34	11.28	---	---	---
25	8.79	6.67	7.85	8.57	7.54	8.00	11.89	10.03	10.88	---	---	---
26	8.66	6.88	7.72	8.41	7.58	7.98	10.73	8.61	9.64	---	---	---
27	9.15	7.32	8.06	8.45	7.50	8.01	9.98	6.59	8.34	---	---	---
28	8.06	7.21	7.67	8.43	7.63	8.01	9.97	7.43	8.94	---	---	---
29	8.25	7.04	7.58	8.90	7.58	8.08	10.01	7.24	8.73	---	---	---
30	8.20	7.14	7.62	8.84	7.43	8.02	9.96	7.61	8.83	---	---	---
31	---	---	---	10.32	7.25	8.52	9.07	6.86	7.97	---	---	---
MONTH	9.90	5.88	8.06	---	---	---	---	---	---	---	---	---

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued

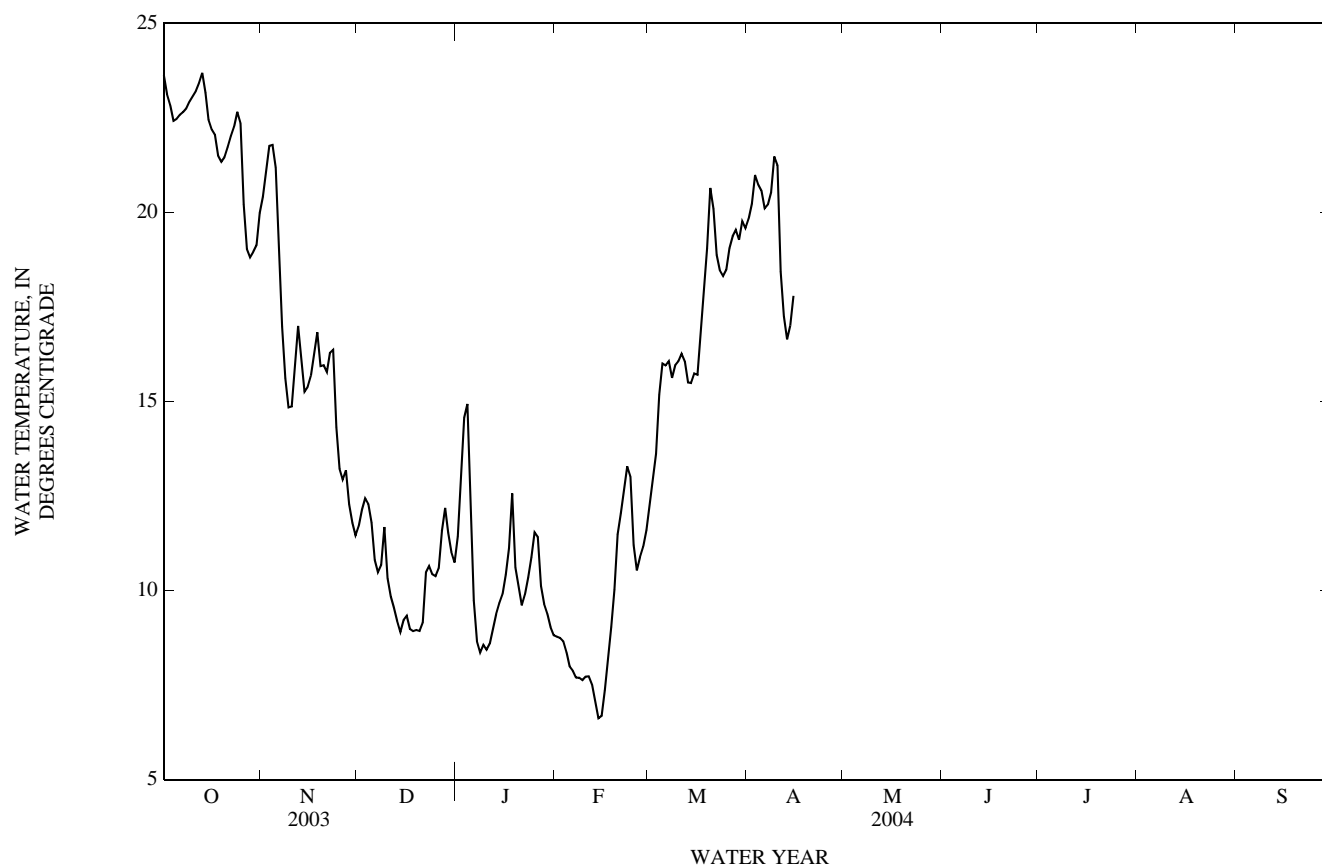

 TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.28	23.35	23.63	20.92	19.98	20.42	12.10	11.41	11.71	12.13	11.01	11.43
2	23.52	22.95	23.12	21.71	20.40	21.09	12.46	11.79	12.14	14.11	12.22	13.08
3	23.11	22.55	22.83	22.00	21.54	21.76	12.69	12.24	12.44	15.27	13.93	14.58
4	22.69	22.25	22.42	22.16	21.50	21.79	12.52	12.11	12.29	15.46	13.65	14.93
5	22.62	22.38	22.48	21.95	20.17	21.18	12.39	11.19	11.80	13.65	11.01	12.24
6	22.79	22.50	22.58	20.17	17.93	18.95	11.23	10.59	10.81	11.01	9.07	9.73
7	22.75	22.60	22.65	17.93	16.08	16.98	10.66	10.32	10.48	9.07	8.33	8.66
8	22.87	22.68	22.75	16.09	15.10	15.62	11.42	10.21	10.67	8.77	8.10	8.36
9	23.18	22.79	22.93	15.10	14.69	14.84	12.12	11.10	11.68	8.79	8.25	8.56
10	23.30	22.88	23.07	15.38	14.64	14.87	11.16	10.01	10.33	8.62	8.26	8.44
11	23.41	23.10	23.21	16.65	14.94	15.85	10.02	9.63	9.85	9.06	8.22	8.60
12	23.79	23.19	23.42	17.89	16.37	17.00	9.72	9.39	9.54	9.37	8.66	9.00
13	24.32	23.38	23.69	17.05	15.53	16.10	9.39	8.97	9.20	9.80	9.19	9.38
14	23.99	22.77	23.16	15.54	15.12	15.26	9.13	8.64	8.91	10.07	9.50	9.67
15	22.77	22.16	22.45	15.88	15.09	15.39	9.84	8.71	9.22	10.17	9.75	9.91
16	22.64	21.81	22.19	15.80	15.57	15.68	9.66	9.10	9.33	12.93	9.92	10.42
17	22.46	21.83	22.05	17.26	15.62	16.29	9.25	8.71	8.99	12.26	10.19	11.12
18	21.84	21.39	21.50	17.27	16.32	16.83	9.14	8.70	8.92	14.41	10.30	12.57
19	21.52	21.21	21.34	16.32	15.77	15.94	9.26	8.69	8.96	11.19	10.34	10.61
20	21.76	21.33	21.46	16.27	15.66	15.96	9.19	8.67	8.93	10.37	9.84	10.10
21	22.06	21.53	21.73	16.08	15.41	15.78	9.96	8.67	9.15	9.85	9.48	9.61
22	22.31	21.74	22.02	17.01	15.75	16.29	11.14	9.91	10.48	10.69	9.51	9.90
23	22.46	22.08	22.27	17.10	15.19	16.37	10.87	10.45	10.65	10.85	9.87	10.34
24	23.23	22.29	22.66	15.19	13.88	14.32	10.68	10.08	10.43	10.99	10.67	10.88
25	22.84	21.30	22.36	13.88	12.81	13.22	10.66	10.13	10.38	12.19	10.90	11.54
26	21.30	19.46	20.21	13.47	12.60	12.93	11.02	10.41	10.60	11.89	10.72	11.42
27	19.46	18.83	19.04	13.38	12.73	13.18	12.30	11.02	11.59	10.72	9.79	10.12
28	19.24	18.60	18.81	12.73	11.98	12.28	12.30	11.96	12.18	9.89	9.44	9.64
29	19.31	18.61	18.96	12.02	11.57	11.79	11.96	11.30	11.53	9.55	9.22	9.38
30	19.74	18.61	19.13	11.76	11.08	11.46	11.31	10.83	11.01	9.39	8.73	9.03
31	20.36	19.69	19.99	---	---	---	11.06	10.42	10.74	9.00	8.73	8.82
MONTH	24.32	18.60	21.94	22.16	11.08	16.18	12.69	8.64	10.48	15.46	8.10	10.39

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued



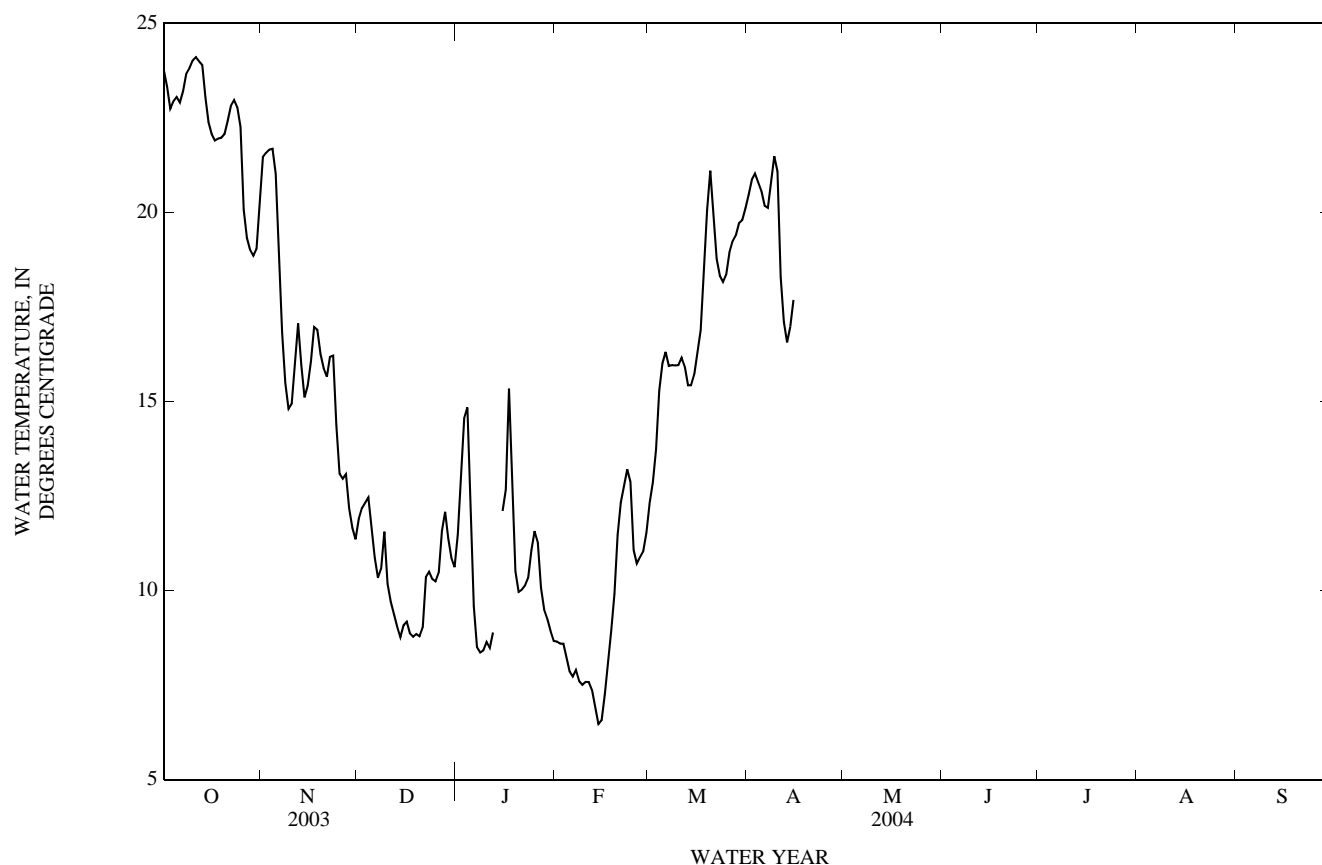
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.62	23.11	23.76	22.09	21.07	21.47	12.57	11.32	11.89	12.19	10.93	11.49
2	24.07	22.81	23.33	21.96	21.19	21.58	12.47	11.85	12.18	14.05	12.16	13.02
3	23.08	22.46	22.74	21.89	21.47	21.66	12.57	12.12	12.32	15.18	13.97	14.55
4	24.33	22.15	22.94	22.05	21.35	21.68	13.15	11.96	12.46	15.49	13.46	14.84
5	23.80	22.62	23.05	21.81	19.99	21.02	12.32	11.05	11.64	13.46	10.84	12.09
6	23.30	22.61	22.90	19.99	17.78	18.78	11.50	10.47	10.87	10.87	8.89	9.59
7	24.52	22.48	23.21	17.78	15.96	16.82	10.52	10.15	10.34	8.92	8.19	8.50
8	24.35	22.96	23.67	15.96	14.94	15.48	11.33	10.06	10.58	9.09	7.99	8.36
9	24.20	23.53	23.81	15.05	14.60	14.81	11.98	10.97	11.56	8.63	8.11	8.42
10	25.08	23.30	24.02	15.50	14.49	14.94	10.97	9.82	10.17	9.60	8.20	8.64
11	25.00	23.34	24.11	16.71	15.20	15.89	9.87	9.51	9.70	8.95	8.03	8.48
12	24.58	23.23	24.00	17.77	16.47	17.06	9.55	9.22	9.39	9.34	8.51	8.89
13	24.35	23.46	23.90	17.13	15.36	15.96	9.23	8.82	9.05	---	---	---
14	23.92	22.62	23.03	15.39	14.95	15.11	9.02	8.52	8.77	---	---	---
15	22.75	22.07	22.39	16.02	14.94	15.42	9.71	8.57	9.08	12.42	11.79	12.11
16	22.52	21.65	22.07	16.67	15.52	16.06	9.55	8.91	9.17	15.53	12.08	12.67
17	22.32	21.69	21.90	17.67	16.39	16.97	9.23	8.58	8.87	16.16	14.59	15.34
18	23.16	21.30	21.95	17.46	16.16	16.90	9.02	8.54	8.78	15.36	11.02	12.85
19	23.21	21.05	21.98	17.04	15.66	16.25	9.31	8.58	8.85	11.02	10.20	10.51
20	22.90	21.19	22.07	16.20	15.56	15.88	9.08	8.52	8.79	10.23	9.70	9.97
21	23.41	21.56	22.42	15.98	15.28	15.66	9.82	8.53	9.03	11.35	9.39	10.02
22	23.84	21.91	22.82	16.92	15.60	16.18	11.01	9.82	10.37	10.84	9.47	10.13
23	24.14	22.18	22.97	16.97	15.04	16.21	10.72	10.30	10.50	10.76	9.86	10.34
24	23.29	22.18	22.78	15.05	13.74	14.37	10.55	10.06	10.31	11.57	10.69	11.06
25	22.69	21.16	22.26	13.74	12.65	13.09	10.56	9.95	10.24	12.11	11.04	11.57
26	21.16	19.34	20.07	13.51	12.50	12.96	10.89	10.26	10.47	11.74	10.56	11.28
27	20.17	18.74	19.32	13.43	12.60	13.08	12.35	10.88	11.58	10.57	9.74	10.07
28	19.67	18.44	19.01	12.60	11.88	12.17	12.47	11.84	12.08	9.74	9.28	9.49
29	19.19	18.50	18.85	11.88	11.46	11.66	11.84	11.15	11.39	9.44	9.08	9.25
30	19.69	18.47	19.03	11.67	10.96	11.36	11.17	10.69	10.87	9.29	8.58	8.93
31	21.40	19.62	20.40	---	---	---	10.95	10.27	10.62	8.86	8.58	8.67
MONTH	25.08	18.44	22.28	22.09	10.96	16.22	13.15	8.52	10.38	---	---	---

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued



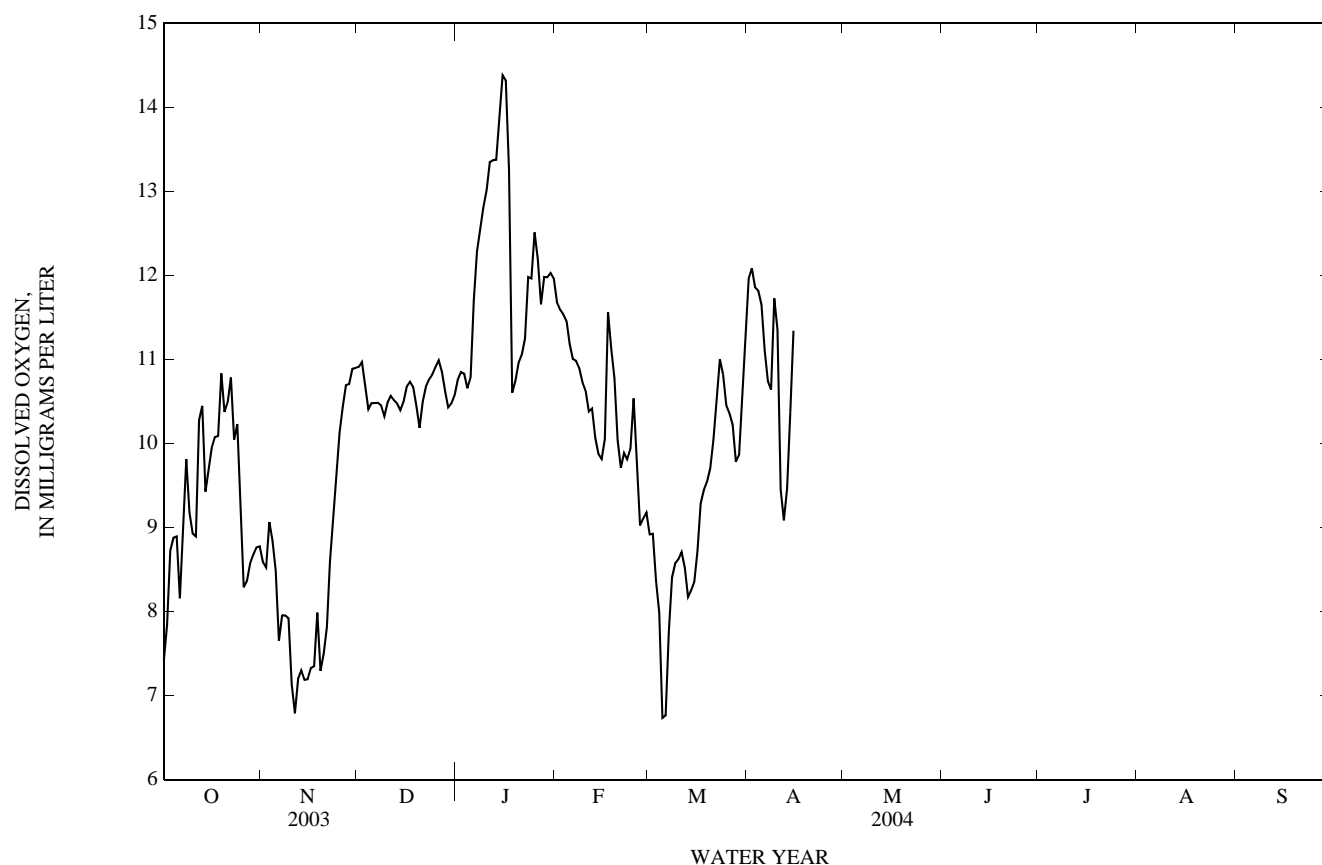
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.37	6.15	7.42	9.20	8.10	8.59	11.13	10.59	10.91	10.86	10.60	10.76
2	9.03	6.53	7.85	9.29	7.25	8.52	11.39	10.60	10.97	11.00	10.72	10.85
3	9.78	7.84	8.73	9.19	8.66	9.07	11.06	10.33	10.69	10.94	10.72	10.83
4	9.98	7.60	8.88	9.06	8.54	8.84	10.67	10.08	10.41	10.84	10.53	10.66
5	9.61	8.24	8.89	8.94	7.87	8.49	10.68	10.24	10.48	11.40	10.40	10.78
6	9.32	6.95	8.16	7.93	7.37	7.65	10.71	10.35	10.48	12.38	11.23	11.70
7	11.30	7.04	9.06	8.16	7.80	7.95	10.70	10.30	10.48	12.55	12.13	12.29
8	12.03	7.49	9.82	8.16	7.47	7.95	10.61	10.37	10.45	12.86	12.37	12.54
9	10.70	7.15	9.18	8.15	7.64	7.92	10.49	10.17	10.33	13.14	12.53	12.81
10	10.63	5.89	8.93	7.85	6.16	7.13	10.66	10.37	10.48	13.30	12.75	13.01
11	10.89	5.04	8.89	7.21	5.86	6.79	10.67	10.44	10.56	13.62	13.00	13.35
12	11.73	7.99	10.28	7.60	6.60	7.20	10.60	10.46	10.52	13.55	13.09	13.37
13	12.56	8.91	10.45	7.59	6.97	7.30	10.52	10.37	10.48	13.68	12.98	13.38
14	11.26	8.22	9.43	7.40	6.99	7.19	10.47	10.33	10.40	14.81	13.15	13.85
15	11.07	8.86	9.69	7.45	6.90	7.20	10.68	10.36	10.50	14.95	13.76	14.38
16	10.85	8.83	9.95	7.87	6.58	7.33	10.85	10.55	10.68	14.79	12.48	14.32
17	10.75	9.41	10.07	8.43	6.41	7.35	10.81	10.68	10.74	14.17	11.88	13.26
18	10.91	9.57	10.09	8.45	7.30	7.99	10.79	10.52	10.67	13.86	9.47	10.61
19	12.11	9.08	10.83	7.79	6.88	7.30	10.77	10.09	10.45	11.10	10.53	10.74
20	11.40	9.28	10.38	7.90	6.64	7.50	10.41	10.03	10.19	11.24	10.76	10.96
21	12.38	8.99	10.49	8.41	6.85	7.82	10.79	10.34	10.50	11.42	10.74	11.06
22	11.86	8.39	10.79	9.24	7.97	8.60	10.79	10.56	10.68	12.26	11.09	11.25
23	11.55	8.05	10.05	9.58	8.48	9.09	10.98	10.65	10.76	12.54	10.65	11.98
24	11.03	7.23	10.23	10.54	9.18	9.58	11.00	10.68	10.82	12.29	11.57	11.96
25	10.00	7.84	9.35	10.56	9.70	10.13	11.10	10.75	10.91	13.09	11.97	12.51
26	8.56	8.05	8.29	11.09	10.01	10.44	11.06	10.90	10.99	12.68	11.62	12.19
27	8.84	7.93	8.36	10.92	10.26	10.69	11.01	10.73	10.85	12.19	11.29	11.66
28	9.46	7.68	8.57	11.22	10.30	10.71	10.75	10.50	10.62	12.39	11.58	11.98
29	9.09	7.81	8.68	11.22	10.56	10.89	10.52	10.31	10.43	12.17	11.82	11.98
30	9.10	8.35	8.76	11.20	10.56	10.90	10.76	10.35	10.48	12.43	11.73	12.03
31	9.26	8.12	8.78	---	---	---	10.77	10.46	10.57	12.34	11.78	11.96
MONTH	12.56	5.04	9.33	11.22	5.86	8.47	11.39	10.03	10.60	14.95	9.47	12.10

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.78	11.54	11.68	9.31	8.52	8.92	13.01	11.35	11.96	---	---	---
2	11.75	11.43	11.59	9.45	8.40	8.93	12.70	10.99	12.08	---	---	---
3	11.70	11.33	11.54	8.68	7.60	8.36	12.28	9.53	11.86	---	---	---
4	11.68	11.32	11.46	8.44	7.12	7.99	12.24	11.43	11.82	---	---	---
5	11.35	11.06	11.19	7.28	6.20	6.73	12.16	11.38	11.65	---	---	---
6	11.13	10.86	11.01	7.52	6.25	6.76	11.45	10.85	11.11	---	---	---
7	11.18	10.89	10.98	8.65	6.85	7.77	10.96	10.34	10.75	---	---	---
8	11.29	10.72	10.90	9.06	7.23	8.41	11.12	10.34	10.64	---	---	---
9	10.82	10.64	10.73	9.02	7.86	8.57	12.49	11.01	11.73	---	---	---
10	10.80	10.43	10.63	8.85	8.46	8.62	11.87	10.29	11.36	---	---	---
11	10.48	10.28	10.38	9.19	8.43	8.71	10.29	9.22	9.45	---	---	---
12	10.64	10.25	10.42	8.84	7.92	8.52	9.29	8.86	9.09	---	---	---
13	10.31	9.91	10.07	8.49	7.29	8.17	10.35	9.11	9.46	---	---	---
14	9.94	9.80	9.88	8.53	7.83	8.25	11.34	9.47	10.37	---	---	---
15	10.06	9.63	9.82	8.93	6.68	8.35	12.01	10.93	11.34	---	---	---
16	11.20	9.52	10.05	9.67	8.21	8.72	---	---	---	---	---	---
17	11.84	11.14	11.56	9.87	8.38	9.29	---	---	---	---	---	---
18	11.43	10.87	11.13	9.80	9.21	9.45	---	---	---	---	---	---
19	11.02	10.44	10.78	9.84	9.16	9.55	---	---	---	---	---	---
20	10.46	9.70	10.04	10.13	9.43	9.71	---	---	---	---	---	---
21	10.10	9.30	9.71	11.04	9.42	10.05	---	---	---	---	---	---
22	10.11	9.72	9.89	11.04	10.05	10.51	---	---	---	---	---	---
23	10.08	9.34	9.81	11.68	10.38	11.00	---	---	---	---	---	---
24	10.26	9.72	9.94	11.32	10.54	10.82	---	---	---	---	---	---
25	11.13	10.11	10.54	10.86	10.13	10.46	---	---	---	---	---	---
26	10.54	7.92	9.70	10.60	10.01	10.36	---	---	---	---	---	---
27	10.24	7.89	9.03	10.46	9.94	10.22	---	---	---	---	---	---
28	9.36	8.94	9.11	10.11	9.41	9.78	---	---	---	---	---	---
29	9.41	8.92	9.18	10.38	9.26	9.87	---	---	---	---	---	---
30	---	---	---	11.35	6.17	10.50	---	---	---	---	---	---
31	---	---	---	12.21	10.78	11.29	---	---	---	---	---	---
MONTH	11.84	7.89	10.44	12.21	6.17	9.18	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued

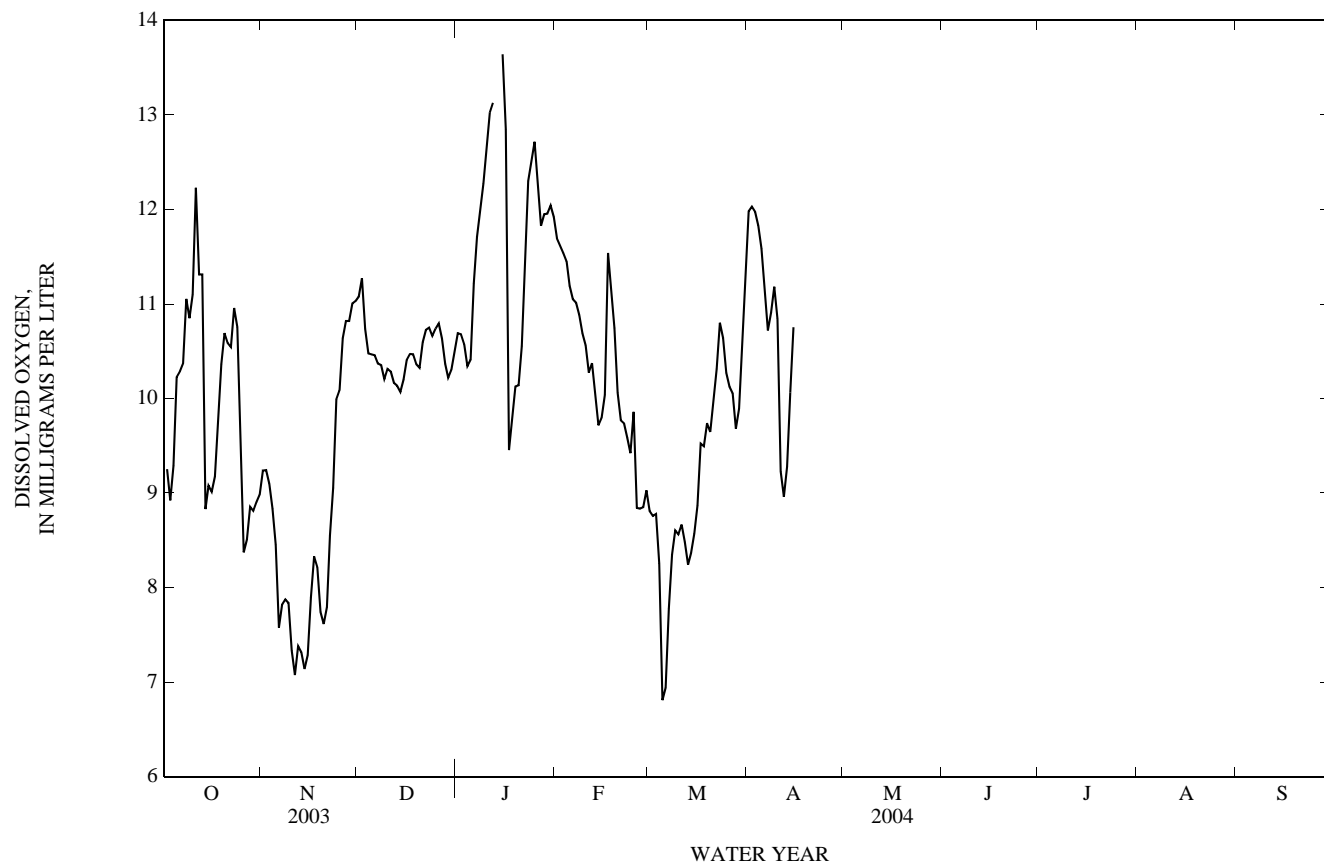
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.37	---	---	9.45	9.03	9.24	11.59	10.44	11.08	10.78	10.62	10.69
2	10.74	8.04	9.25	9.42	9.02	9.24	11.48	10.94	11.27	10.87	10.54	10.68
3	10.19	7.82	8.92	9.28	8.96	9.10	11.11	10.52	10.74	10.73	10.46	10.57
4	10.52	8.01	9.29	9.07	8.49	8.83	11.04	10.13	10.48	10.52	10.11	10.34
5	11.71	8.79	10.23	9.00	7.78	8.45	10.68	10.22	10.47	10.87	10.07	10.41
6	11.19	9.19	10.29	7.87	7.29	7.58	10.64	10.26	10.46	11.69	10.79	11.22
7	11.68	8.85	10.37	7.98	7.66	7.82	10.58	9.80	10.37	11.95	11.52	11.71
8	12.09	8.95	11.05	7.98	7.72	7.87	10.49	10.24	10.35	12.45	11.76	11.98
9	11.75	9.58	10.85	7.98	7.74	7.84	10.37	10.05	10.20	12.60	11.96	12.27
10	12.99	9.55	11.10	7.78	6.90	7.33	10.49	10.06	10.31	13.48	12.24	12.65
11	13.70	10.72	12.23	7.40	6.66	7.07	10.39	10.16	10.28	13.31	12.63	13.02
12	12.44	9.57	11.31	7.69	7.08	7.38	10.25	9.95	10.16	13.37	12.88	13.13
13	12.17	10.15	11.31	7.59	6.98	7.32	10.20	10.05	10.13	---	---	---
14	10.98	7.52	8.83	7.36	6.90	7.14	10.13	9.97	10.07	---	---	---
15	10.39	8.09	9.08	8.04	6.77	7.29	10.42	10.02	10.20	13.89	13.36	13.64
16	9.99	7.60	9.01	8.28	7.27	7.89	10.58	10.26	10.41	13.70	9.40	12.85
17	9.88	8.58	9.18	8.94	8.07	8.33	10.61	10.29	10.47	9.92	9.20	9.45
18	11.33	8.89	9.84	8.58	7.61	8.22	10.76	10.28	10.47	10.14	9.11	9.80
19	10.93	9.56	10.36	8.73	6.93	7.74	10.62	10.05	10.36	10.49	9.90	10.13
20	11.17	9.80	10.69	8.11	7.12	7.61	10.56	9.93	10.33	10.46	9.91	10.14
21	11.16	9.13	10.59	8.45	7.06	7.79	10.85	10.42	10.60	11.34	9.93	10.56
22	11.42	8.83	10.54	9.25	7.93	8.55	10.83	10.65	10.73	12.45	10.56	11.55
23	11.83	10.44	10.96	9.53	8.50	9.06	10.92	10.66	10.75	12.88	11.87	12.30
24	11.04	10.10	10.76	11.41	9.14	9.99	10.79	10.48	10.66	13.11	11.93	12.51
25	10.10	8.16	9.49	10.51	9.64	10.09	11.00	10.53	10.74	13.29	12.05	12.72
26	8.62	8.14	8.37	11.28	10.01	10.64	10.95	10.71	10.79	12.67	11.65	12.25
27	9.01	8.12	8.51	11.04	10.11	10.82	10.82	10.45	10.64	12.62	11.33	11.83
28	9.93	8.27	8.86	11.38	10.33	10.82	10.73	10.03	10.37	12.39	11.57	11.95
29	9.40	7.74	8.81	11.35	10.64	11.00	10.62	9.98	10.22	12.13	11.81	11.96
30	9.30	7.45	8.90	11.34	10.60	11.03	10.58	10.13	10.30	12.41	11.75	12.04
31	9.27	8.76	8.98	---	---	---	10.81	10.32	10.50	12.28	11.74	11.92
MONTH	13.70	---	---	11.41	6.66	8.64	11.59	9.80	10.48	---	---	---

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

325118097024000 Trigg Lake near dam at DFW Airport near Ft Worth, TX—Continued



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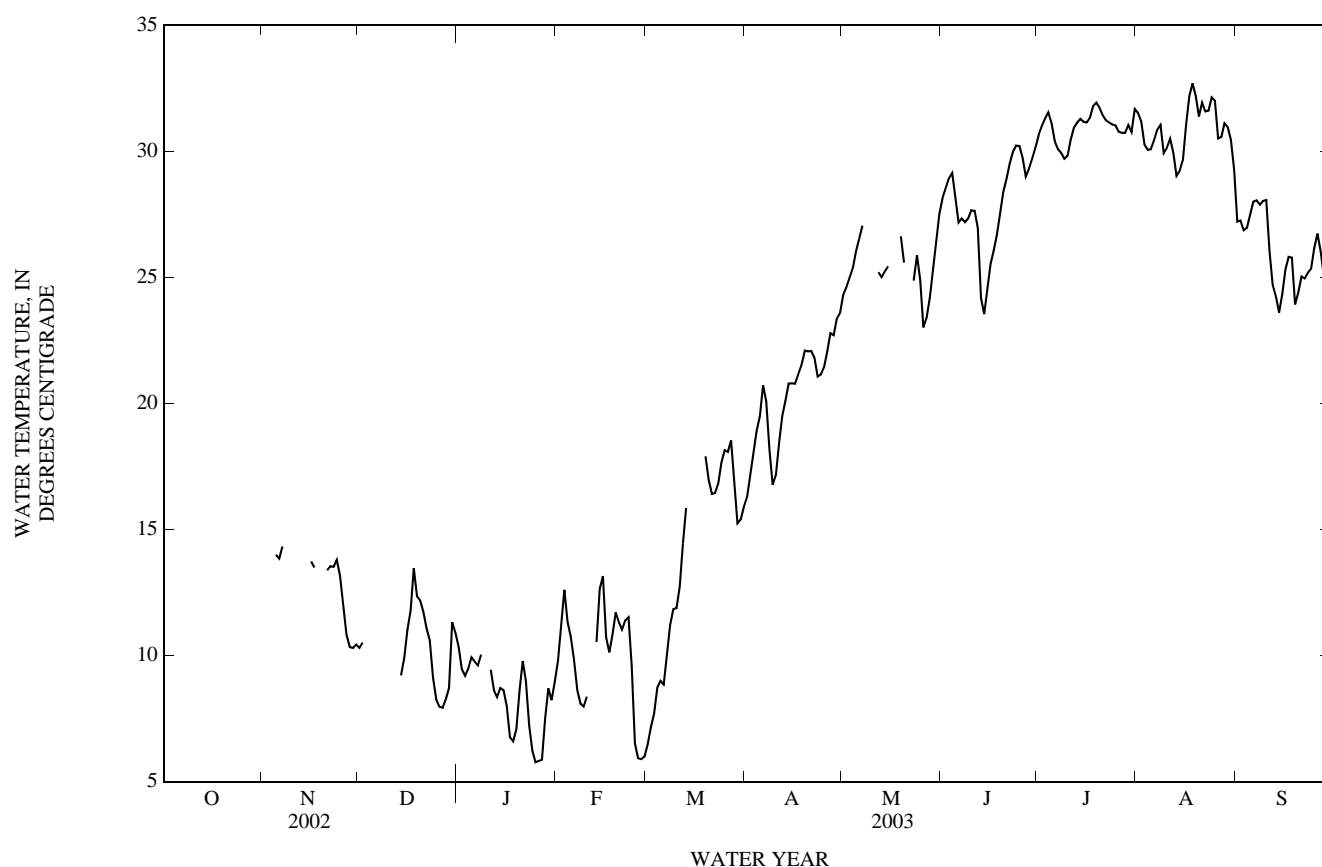
DISSOLVED OXYGEN: Maximum (2003 WY), 17.02 mg/L, Aug. 28, maximum (2004 WY), 15.41 mg/L, Apr. 4; minimum (2003 WY), 1.42 mg/L, Aug. 26, minimum (2004 WY), 3.57 mg/L, Oct. 7.

[illegible]

325125097023900 Trigg Lake Upper Reach at DFW Airport near Ft Worth,TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	10.96	8.92	9.78	6.84	6.20	6.48	17.98	15.19	16.28	25.56	23.41	24.31
2	12.99	9.83	11.15	7.96	6.73	7.17	18.93	16.05	17.15	25.51	24.21	24.61
3	13.30	11.62	12.61	8.38	7.35	7.70	19.15	17.49	18.04	25.91	24.29	24.99
4	12.07	10.34	11.34	10.24	7.93	8.72	20.71	18.08	18.92	26.14	24.77	25.36
5	11.32	10.31	10.75	9.95	8.42	9.00	20.63	18.65	19.50	27.43	25.35	26.04
6	10.43	9.22	9.85	10.39	8.05	8.86	22.22	19.77	20.73	27.38	26.02	26.55
7	9.38	8.21	8.63	11.63	8.89	10.00	20.93	19.22	20.07	27.89	26.28	27.06
8	8.32	7.84	8.09	12.20	10.60	11.21	19.71	17.35	18.16	---	---	---
9	8.49	7.68	7.98	12.76	11.15	11.84	17.43	15.80	16.77	---	---	---
10	9.25	7.68	8.37	12.51	11.35	11.88	18.46	16.25	17.16	---	---	---
11	---	---	---	14.41	11.61	12.73	20.10	17.14	18.43	25.91	---	---
12	---	---	---	16.01	13.45	14.44	21.91	17.89	19.51	25.82	24.60	25.21
13	11.35	10.13	10.54	16.89	15.14	15.86	21.48	19.14	20.12	25.42	24.60	25.01
14	13.98	11.18	12.64	---	---	---	22.13	19.81	20.79	25.78	24.67	25.24
15	14.12	11.73	13.16	---	---	---	21.23	20.31	20.80	25.78	25.04	25.44
16	12.05	9.97	10.73	---	---	---	22.14	19.87	20.78	---	---	---
17	10.93	9.37	10.13	---	---	---	22.21	20.05	21.16	---	---	---
18	11.86	10.10	10.83	18.63	---	---	22.29	20.95	21.52	---	---	---
19	12.02	11.50	11.71	18.69	17.23	17.90	23.46	21.27	22.10	27.97	25.71	26.63
20	11.51	11.19	11.33	17.91	16.01	16.97	22.88	21.46	22.07	27.39	24.53	25.59
21	11.21	10.58	11.03	17.39	15.75	16.42	23.42	21.23	22.08	24.55	---	---
22	12.88	10.39	11.40	16.74	16.13	16.45	22.34	21.47	21.82	24.23	---	---
23	12.54	10.94	11.53	18.30	15.47	16.82	21.54	20.42	21.07	27.51	23.15	24.87
24	11.07	7.71	9.58	19.00	16.73	17.67	22.50	20.06	21.15	27.09	24.64	25.87
25	7.72	5.56	6.52	19.23	17.55	18.15	22.46	20.54	21.44	26.63	23.93	24.90
26	6.17	5.33	5.93	19.26	17.13	18.08	23.20	21.08	22.06	23.93	22.31	23.02
27	6.09	5.50	5.89	19.82	17.55	18.53	23.85	21.93	22.79	24.96	22.43	23.39
28	6.38	5.67	5.99	18.71	16.02	17.04	23.10	22.23	22.71	25.79	23.17	24.19
29	---	---	---	16.08	14.16	15.25	24.98	22.36	23.37	26.77	24.31	25.32
30	---	---	---	16.91	13.84	15.39	24.35	22.86	23.59	28.13	25.50	26.45
31	---	---	---	17.07	14.86	15.90	---	---	---	29.26	26.51	27.53
MONTH	---	---	---	---	---	---	24.98	15.19	20.40	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
1	29.12	27.40	28.15	31.50	29.99	30.66	33.13	30.12	31.53	28.94	25.08	27.22
2	29.52	27.97	28.55	31.72	30.48	31.02	32.93	30.03	31.20	28.09	26.66	27.26
3	30.27	28.16	28.94	32.02	30.62	31.30	30.96	29.90	30.27	27.51	26.25	26.87
4	30.08	28.48	29.14	32.22	30.92	31.55	31.44	29.07	30.06	27.53	26.61	26.96
5	29.13	27.46	28.17	31.61	30.78	31.12	31.92	28.79	30.09	29.12	26.36	27.48
6	27.58	26.72	27.18	30.88	30.15	30.41	32.11	29.34	30.44	29.63	26.63	28.01
7	28.37	26.47	27.34	30.81	29.69	30.10	32.22	29.80	30.86	29.68	26.81	28.06
8	27.77	26.61	27.20	30.54	29.53	29.95	32.22	30.31	31.06	29.33	26.62	27.89
9	28.07	26.71	27.34	30.32	29.21	29.71	30.80	29.18	29.94	29.74	26.84	28.03
10	28.20	27.21	27.66	30.74	29.02	29.82	31.79	28.84	30.14	29.41	27.02	28.07
11	28.33	27.04	27.65	31.51	29.60	30.48	32.20	29.55	30.50	27.83	22.72	26.06
12	27.76	25.42	26.97	31.94	30.13	30.95	31.11	28.80	29.95	25.73	23.91	24.71
13	25.91	22.72	24.19	32.25	30.41	31.14	29.88	28.49	29.03	25.39	23.32	24.26
14	26.04	22.65	23.54	32.29	30.55	31.29	31.07	28.13	29.23	24.73	23.17	23.60
15	26.13	23.80	24.60	31.99	30.58	31.17	31.08	28.53	29.66	26.95	22.39	24.34
16	26.82	24.76	25.55	32.05	30.52	31.15	33.77	29.54	31.07	26.44	24.07	25.33
17	26.69	25.59	26.08	32.29	30.56	31.35	34.39	30.41	32.19	27.05	24.79	25.82
18	27.87	26.02	26.72	32.73	31.02	31.80	34.76	31.10	32.69	26.45	24.71	25.78
19	28.52	26.79	27.57	32.88	31.28	31.94	33.69	30.76	32.21	24.77	23.45	23.93
20	29.32	27.69	28.41	32.74	30.98	31.73	32.62	30.00	31.39	26.48	22.90	24.40
21	29.61	28.25	28.92	32.50	30.74	31.44	34.69	29.78	31.94	26.21	24.29	25.03
22	30.26	28.89	29.53	32.40	30.36	31.23	33.34	30.27	31.59	26.56	24.16	24.96
23	30.63	29.39	29.98	32.51	30.34	31.15	33.78	29.84	31.62	26.09	24.55	25.18
24	30.93	29.75	30.23	32.17	30.25	31.06	34.14	30.42	32.15	26.09	24.67	25.34
25	30.85	29.68	30.21	32.24	30.18	31.03	34.15	30.34	32.01	27.72	24.85	26.17
26	30.43	29.06	29.75	31.62	30.07	30.78	33.85	26.17	30.51	28.03	25.58	26.73
27	30.09	28.33	29.00	32.44	29.60	30.73	33.41	28.73	30.57	27.04	25.17	26.02
28	30.42	28.62	29.33	32.65	29.71	30.74	33.61	28.57	31.11	25.69	24.38	25.05
29	30.42	29.02	29.73	32.93	29.77	31.04	34.02	28.14	30.96	25.56	23.57	24.48
30	30.79	29.52	30.16	32.14	29.79	30.77	32.73	29.25	30.46	25.19	22.82	23.99
31	---	---	---	33.88	30.22	31.68	29.84	28.72	29.28	---	---	---
MONTH	30.93	22.65	27.93	33.88	29.02	30.98	34.76	26.17	30.83	29.74	22.39	25.90



DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

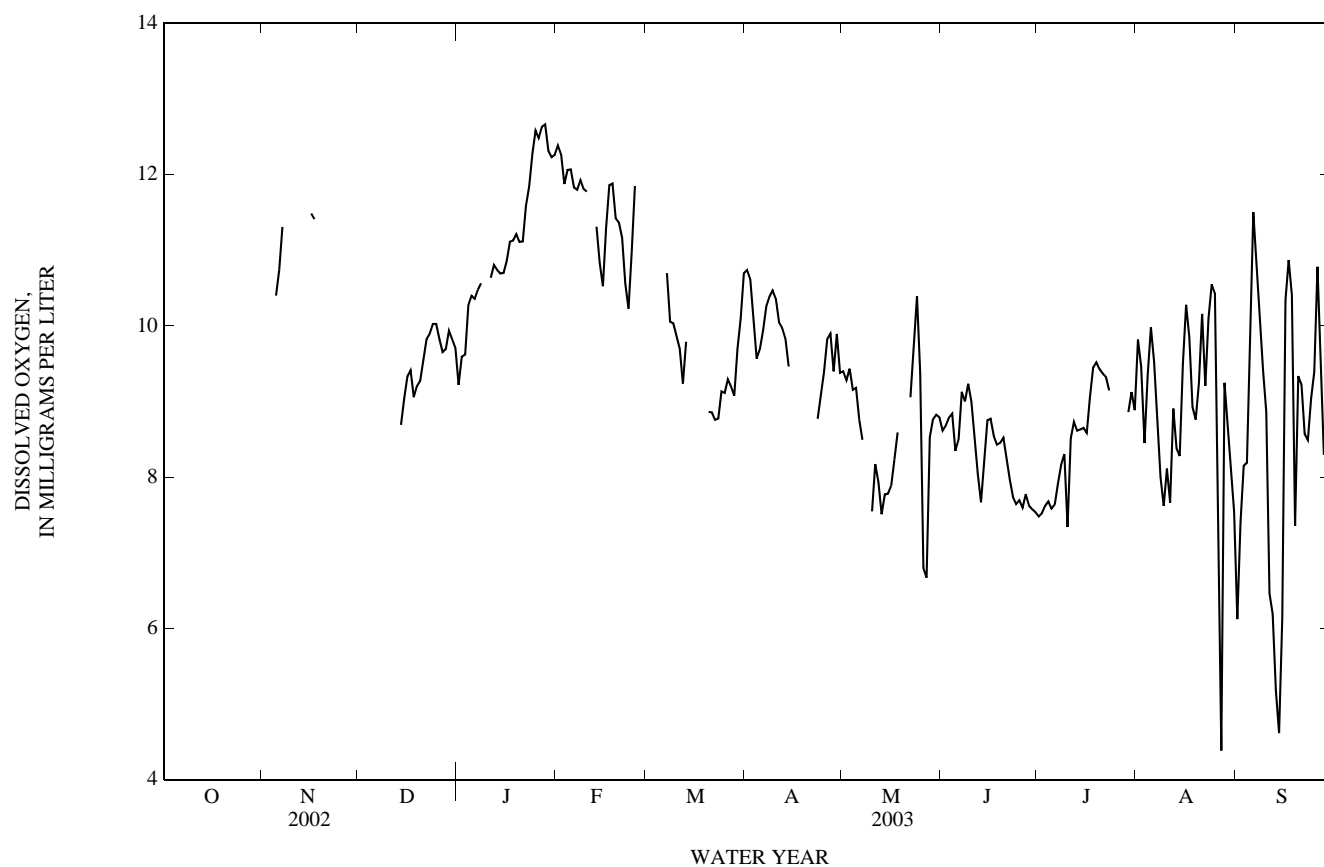
[illegible]

325125097023900 Trigg Lake Upper Reach at DFW Airport near Ft Worth, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.89	12.01	12.39	---	---	---	11.29	10.27	10.74	11.38	8.00	9.40
2	12.76	11.91	12.26	---	---	---	11.44	9.95	10.62	10.46	8.77	9.28
3	12.35	11.35	11.88	---	---	---	11.72	9.32	10.06	11.18	8.48	9.43
4	12.38	11.73	12.06	---	---	---	9.99	8.93	9.57	10.77	7.88	9.15
5	12.31	11.87	12.07	---	---	---	10.79	8.76	9.69	11.78	7.90	9.18
6	12.01	11.64	11.83	---	---	---	10.92	7.63	9.94	10.16	7.78	8.76
7	12.12	11.48	11.80	10.97	10.27	10.70	10.94	7.84	10.25	9.46	7.73	8.49
8	12.12	11.71	11.93	10.44	9.36	10.05	10.95	9.83	10.38	---	---	---
9	12.04	11.62	11.81	10.25	9.62	10.03	11.16	9.70	10.47	---	---	---
10	12.25	11.46	11.77	10.12	9.45	9.87	11.25	10.00	10.36	8.01	6.58	7.55
11	---	---	---	10.11	9.26	9.70	10.89	9.52	10.04	9.04	7.18	8.17
12	---	---	---	9.64	8.62	9.24	10.64	9.53	9.97	8.86	6.97	7.93
13	11.60	10.99	11.31	10.29	9.05	9.79	10.70	9.29	9.83	8.31	6.73	7.51
14	11.42	10.29	10.83	---	---	---	10.55	8.97	9.46	8.63	6.96	7.77
15	11.03	9.74	10.52	---	---	---	---	---	---	8.58	6.86	7.78
16	12.27	10.67	11.30	---	---	---	---	---	---	8.96	6.64	7.89
17	12.38	11.56	11.86	---	---	---	---	---	---	8.98	7.63	8.24
18	12.40	11.58	11.88	---	---	---	---	---	---	9.48	7.57	8.59
19	12.05	11.14	11.42	---	---	---	---	---	---	---	---	---
20	11.64	11.16	11.37	9.39	8.36	8.86	---	---	---	---	---	---
21	11.39	10.65	11.17	9.28	8.66	8.86	---	---	---	---	---	---
22	11.17	9.73	10.56	9.10	8.34	8.76	9.62	---	---	10.57	7.87	9.06
23	10.96	9.76	10.23	9.25	8.42	8.77	9.12	8.53	8.77	10.14	9.16	9.66
24	11.34	10.71	10.98	9.82	8.70	9.13	10.47	8.36	9.06	10.96	9.66	10.39
25	12.94	11.32	11.85	9.77	8.15	9.11	10.83	8.85	9.39	10.86	8.61	9.38
26	---	---	---	9.82	8.97	9.30	11.59	9.11	9.83	8.62	5.57	6.80
27	---	---	---	10.11	8.70	9.20	12.00	9.16	9.90	8.10	5.56	6.67
28	---	---	---	9.96	8.53	9.08	10.48	8.66	9.40	9.47	7.69	8.53
29	---	---	---	10.55	9.04	9.70	12.74	9.06	9.89	9.30	8.25	8.76
30	---	---	---	10.83	9.66	10.10	10.73	8.67	9.38	10.38	8.17	8.83
31	---	---	---	11.49	10.06	10.70	---	---	---	10.05	8.03	8.79
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
JUNE			JULY			AUGUST			SEPTEMBER			
1	10.16	7.87	8.62	8.19	6.82	7.48	13.20	6.53	9.82	10.24	2.17	6.12
2	10.27	7.83	8.68	8.42	6.66	7.52	13.11	7.19	9.46	11.87	3.91	7.40
3	10.04	7.81	8.79	8.44	6.81	7.62	10.45	7.17	8.45	10.90	4.79	8.15
4	10.03	7.94	8.84	8.49	6.96	7.68	12.57	7.10	9.36	11.73	6.09	8.19
5	9.19	7.51	8.35	8.37	6.98	7.58	14.22	7.46	9.98	15.27	5.29	9.70
6	9.67	6.74	8.49	8.40	6.98	7.64	12.68	7.04	9.52	15.55	4.99	11.50
7	10.70	7.82	9.13	8.99	7.19	7.91	11.23	6.51	8.72	13.80	5.62	10.87
8	9.85	8.28	9.00	9.32	7.35	8.16	10.99	5.74	8.00	13.91	5.74	10.14
9	10.19	8.38	9.23	9.43	7.40	8.30	9.54	6.52	7.62	12.16	5.67	9.41
10	9.70	8.18	9.00	9.37	7.34	7.34	10.29	5.57	8.11	10.98	6.62	8.86
11	8.93	7.91	8.51	10.53	6.90	8.51	10.12	5.61	7.66	8.21	4.54	6.46
12	8.82	7.23	8.04	10.73	7.17	8.73	12.89	6.26	8.91	7.07	4.98	6.19
13	8.45	5.30	7.67	10.51	7.23	8.61	13.17	5.95	8.38	7.90	2.04	5.18
14	8.83	3.98	8.19	10.62	7.17	8.63	12.17	5.59	8.28	6.46	3.08	4.62
15	9.03	8.31	8.75	10.75	7.18	8.65	13.89	6.26	9.51	9.58	1.97	6.14
16	9.31	8.32	8.77	10.36	7.18	8.58	12.37	6.37	10.28	12.40	7.62	10.34
17	8.96	8.12	8.54	12.04	7.00	9.06	14.00	6.04	9.85	12.73	8.83	10.87
18	8.90	7.86	8.43	12.32	7.29	9.45	13.63	3.56	8.93	13.00	7.91	10.41
19	9.01	7.94	8.45	12.54	7.32	9.52	12.86	4.82	8.76	10.38	4.71	7.35
20	10.24	7.65	8.52	11.96	7.16	9.43	13.22	5.21	9.24	11.86	7.63	9.33
21	8.96	7.69	8.26	12.05	7.52	9.37	13.77	6.52	10.16	13.15	7.53	9.23
22	8.47	7.48	7.97	12.04	7.52	9.32	13.53	5.65	9.21	10.48	7.43	8.57
23	8.34	7.28	7.74	12.12	6.95	9.15	14.42	5.76	10.10	10.00	7.38	8.49
24	8.16	7.17	7.64	---	7.06	---	14.96	6.87	10.55	11.56	7.04	9.03
25	8.36	7.01	7.69	---	---	---	14.79	6.55	10.43	11.57	6.62	9.39
26	8.14	7.03	7.60	---	---	---	13.20	1.42	7.31	11.88	9.34	10.78
27	8.54	7.10	7.77	---	---	---	11.96	1.45	4.39	10.80	6.45	9.29
28	8.28	7.06	7.62	---	---	---	17.02	1.59	9.25	10.46	5.57	8.30
29	8.09	6.82	7.57	10.79	7.28	8.86	14.65	2.36	8.77	9.99	6.66	8.55
30	8.10	6.90	7.54	11.89	7.15	9.12	13.94	4.01	8.20	10.12	6.35	8.73
31	---	---	---	11.95	6.89	8.89	13.98	3.58	7.54	---	---	---
MONTH	10.70	3.98	8.31	---	---	---	17.02	1.42	8.86	15.55	1.97	8.59

325125097023900 Trigg Lake Upper Reach at DFW Airport near Ft Worth, TX—Continued



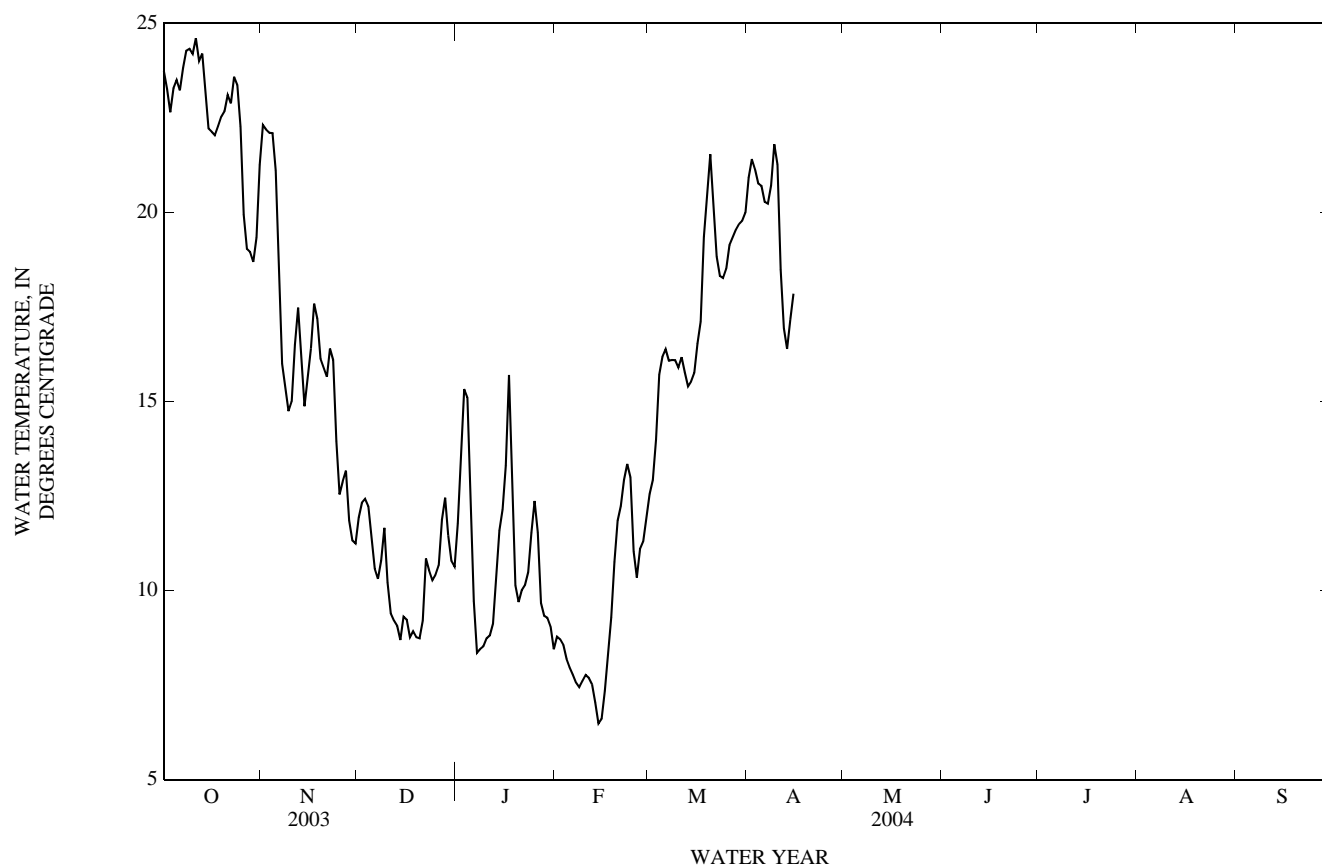
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.75	23.22	23.74	23.07	21.73	22.31	12.69	11.37	11.94	12.52	11.17	11.78
2	24.49	22.15	23.26	22.74	21.62	22.19	12.84	11.83	12.32	15.30	12.44	13.62
3	23.44	21.70	22.65	22.49	21.75	22.11	12.73	12.18	12.42	16.30	14.41	15.33
4	25.06	21.77	23.28	22.81	21.47	22.10	13.15	11.65	12.23	17.07	13.44	15.11
5	24.21	23.09	23.50	22.26	19.71	21.11	12.21	10.66	11.44	13.44	10.82	12.01
6	23.65	22.85	23.23	19.73	17.35	18.41	11.76	9.67	10.58	10.86	8.92	9.73
7	25.36	22.72	23.82	17.35	13.76	16.00	10.87	9.76	10.31	8.92	7.96	8.35
8	25.14	23.32	24.28	15.85	14.69	15.35	11.62	10.00	10.79	9.61	7.82	8.45
9	24.69	24.01	24.33	15.04	14.34	14.74	12.09	10.86	11.66	8.87	7.95	8.53
10	25.01	23.57	24.19	16.00	14.27	15.00	10.94	9.49	10.21	10.12	7.94	8.74
11	25.61	23.58	24.61	17.70	15.39	16.50	10.11	8.83	9.40	9.44	8.22	8.81
12	24.85	23.10	24.00	18.68	16.81	17.48	9.40	8.92	9.21	9.87	8.48	9.12
13	25.06	23.58	24.20	16.82	15.36	16.09	9.31	8.74	9.07	12.16	9.51	10.38
14	24.35	22.37	23.12	15.36	14.65	14.88	9.35	7.96	8.69	13.52	10.54	11.59
15	23.16	21.26	22.22	16.53	14.80	15.67	10.23	8.57	9.31	12.54	11.73	12.15
16	23.17	21.03	22.14	17.22	15.67	16.40	9.53	8.89	9.23	16.01	12.35	13.31
17	22.72	21.58	22.04	18.67	16.91	17.59	9.43	8.03	8.76	16.37	15.19	15.70
18	24.40	20.52	22.28	18.29	15.85	17.19	9.22	8.56	8.92	15.63	10.48	12.38
19	23.77	21.28	22.53	16.98	15.34	16.13	9.15	8.28	8.77	10.71	9.54	10.14
20	23.98	21.50	22.68	16.48	15.36	15.90	9.44	8.14	8.74	10.43	9.01	9.69
21	24.46	21.93	23.11	16.44	14.85	15.65	9.86	8.54	9.20	11.19	9.27	10.01
22	23.48	22.28	22.89	17.15	15.67	16.40	12.42	9.86	10.85	10.85	9.63	10.15
23	25.92	22.01	23.59	17.23	14.50	16.10	10.83	10.11	10.53	11.13	9.84	10.49
24	24.14	22.53	23.38	14.67	13.00	13.95	10.87	9.66	10.28	12.58	11.03	11.53
25	23.00	21.23	22.27	13.02	11.88	12.54	10.84	9.94	10.42	13.07	11.62	12.37
26	21.23	18.80	19.94	13.88	11.97	12.89	11.14	10.36	10.67	12.62	10.12	11.54
27	20.72	17.66	19.04	13.85	12.18	13.17	12.74	11.13	11.87	10.53	8.90	9.67
28	19.66	18.14	18.96	12.22	11.35	11.85	13.11	12.02	12.46	10.04	8.68	9.33
29	19.70	17.83	18.69	11.98	10.81	11.33	12.02	11.03	11.46	9.61	9.02	9.28
30	20.54	18.19	19.34	12.09	10.34	11.24	11.33	10.21	10.78	9.60	8.78	9.05
31	22.45	20.24	21.26	---	---	---	11.22	9.95	10.63	8.78	8.08	8.45
MONTH	25.92	17.66	22.53	23.07	10.34	16.28	13.15	7.96	10.42	17.07	7.82	10.86

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

[illegible]

325125097023900 Trigg Lake Upper Reach at DFW Airport near Ft Worth, TX—Continued



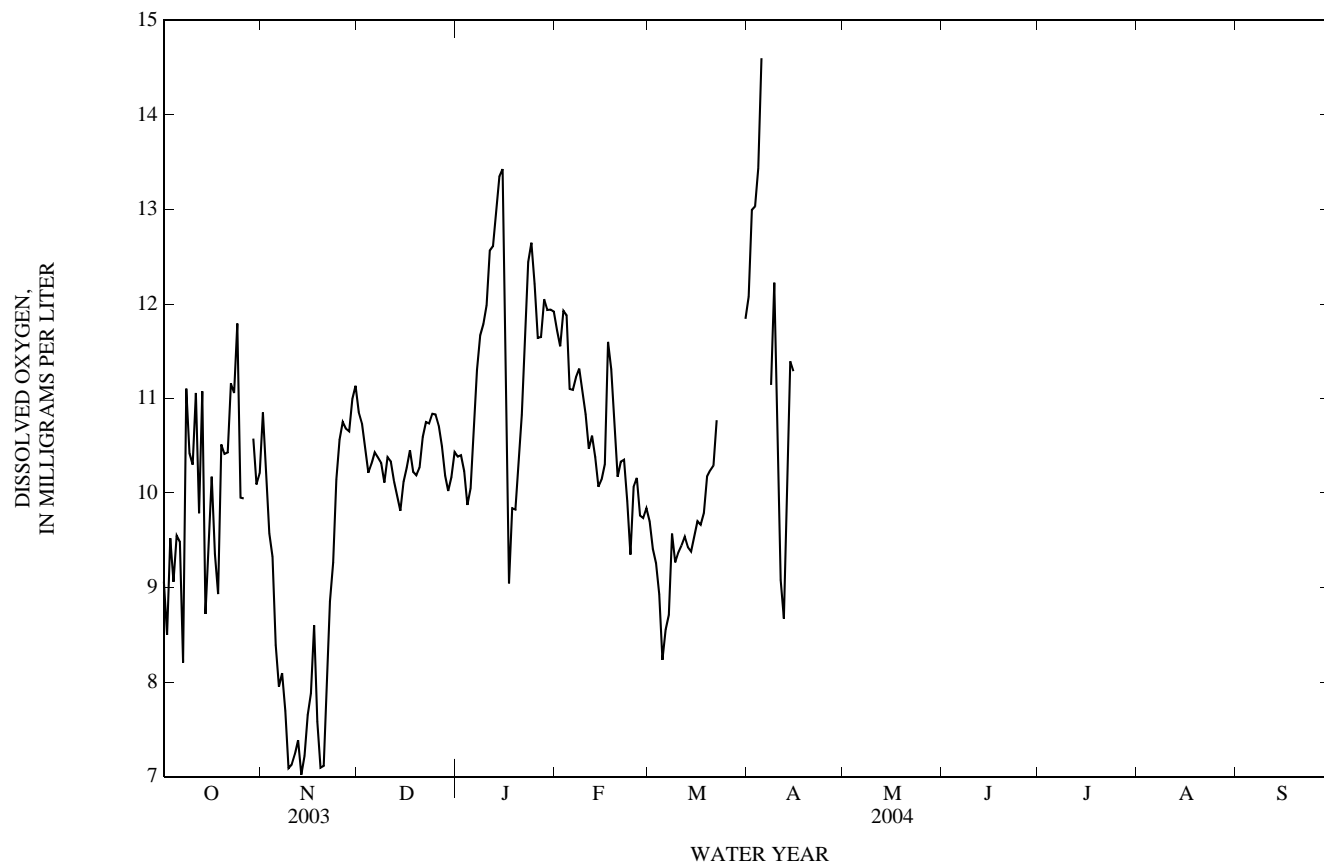
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.79	7.37	9.06	12.70	9.05	10.85	11.50	10.10	10.85	10.60	10.25	10.38
2	10.84	5.54	8.50	12.16	8.26	10.26	11.51	10.28	10.74	11.00	10.01	10.40
3	11.73	7.23	9.52	11.23	7.90	9.57	10.64	10.20	10.46	10.62	9.98	10.23
4	10.54	7.42	9.06	11.85	7.01	9.33	10.79	9.57	10.21	10.14	9.28	9.87
5	11.97	7.43	9.55	9.79	7.86	8.39	10.91	9.76	10.31	10.55	9.71	10.05
6	10.98	7.63	9.48	8.52	7.45	7.95	10.64	10.17	10.43	11.06	10.47	10.74
7	11.87	3.57	8.21	9.16	7.60	8.10	10.74	9.87	10.38	11.80	10.82	11.30
8	13.80	6.52	11.10	8.18	6.88	7.70	10.82	10.12	10.32	12.66	11.21	11.67
9	12.28	7.30	10.42	7.62	6.23	7.09	10.34	10.01	10.11	12.23	11.20	11.79
10	14.90	7.88	10.30	7.72	6.36	7.13	10.74	10.11	10.38	12.62	11.43	11.99
11	13.58	8.93	11.06	8.17	6.30	7.24	10.81	9.95	10.34	13.16	12.15	12.56
12	12.41	7.46	9.79	7.89	6.75	7.39	10.49	9.88	10.13	13.46	11.96	12.61
13	13.89	6.51	11.08	7.24	6.77	7.02	10.28	9.79	9.97	13.81	12.32	12.99
14	11.69	6.58	8.72	7.96	6.58	7.22	10.14	9.48	9.81	14.31	12.62	13.35
15	12.77	6.33	9.43	8.38	7.08	7.65	10.40	9.93	10.12	14.18	13.15	13.43
16	12.45	8.00	10.17	8.68	6.73	7.88	10.63	9.96	10.27	13.27	9.32	12.12
17	10.51	8.16	9.36	9.72	8.15	8.60	10.75	10.21	10.45	9.56	8.47	9.04
18	10.53	6.65	8.93	8.15	7.00	7.58	10.46	10.11	10.23	10.13	8.64	9.84
19	11.40	9.14	10.51	7.83	6.40	7.09	10.33	9.96	10.19	10.36	9.45	9.82
20	12.44	8.77	10.41	8.34	5.79	7.11	10.67	9.86	10.27	10.87	9.76	10.27
21	12.39	8.38	10.43	9.20	7.32	8.19	10.96	10.38	10.59	12.78	9.90	10.83
22	13.00	9.27	11.16	9.60	8.00	8.85	11.03	10.58	10.75	12.44	11.00	11.67
23	12.80	9.45	11.06	10.00	8.62	9.26	11.04	10.50	10.74	13.40	11.20	12.44
24	13.60	9.84	11.79	11.36	9.07	10.14	11.22	10.54	10.84	13.51	11.86	12.65
25	11.26	8.54	9.95	11.38	9.75	10.56	11.17	10.28	10.83	12.67	11.67	12.21
26	10.68	9.30	9.94	11.61	9.93	10.75	10.82	10.60	10.71	12.12	11.01	11.64
27	---	---	---	11.19	10.22	10.68	10.61	10.32	10.49	12.38	10.91	11.65
28	---	---	---	11.32	9.97	10.65	10.42	9.95	10.18	12.64	11.59	12.05
29	12.13	8.63	10.58	11.73	10.31	11.00	10.33	9.62	10.02	12.37	11.50	11.94
30	12.40	8.01	10.09	11.87	10.55	11.13	10.82	9.78	10.17	12.53	11.64	11.94
31	12.04	8.63	10.21	---	---	---	11.00	10.11	10.43	12.28	11.61	11.92
MONTH	---	---	---	12.70	5.79	8.75	11.51	9.48	10.38	14.31	8.47	11.46

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.96	11.50	11.72	9.91	9.27	9.70	12.61	11.35	12.08	---	---	---
2	12.43	11.22	11.55	9.92	8.96	9.41	13.96	12.33	12.99	---	---	---
3	13.21	11.38	11.93	9.60	8.95	9.26	13.69	12.44	13.03	---	---	---
4	12.86	11.24	11.88	9.41	8.30	8.93	15.41	12.47	13.44	---	---	---
5	11.24	10.97	11.10	8.55	7.61	8.24	15.28	13.79	14.60	---	---	---
6	11.39	10.82	11.09	9.09	7.42	8.55	---	---	---	---	---	---
7	11.85	10.89	11.23	9.38	7.74	8.71	---	---	---	---	---	---
8	11.55	11.04	11.32	10.18	9.03	9.57	13.18	10.39	11.14	---	---	---
9	11.41	10.78	11.08	9.63	8.54	9.27	13.83	11.04	12.22	---	---	---
10	11.01	10.21	10.83	9.83	8.80	9.37	12.68	9.89	11.11	---	---	---
11	10.67	9.94	10.47	10.06	9.05	9.45	9.89	8.20	9.08	---	---	---
12	10.75	10.29	10.61	9.87	9.22	9.54	9.33	7.95	8.67	---	---	---
13	10.81	9.99	10.38	9.71	9.22	9.42	11.64	8.75	9.67	---	---	---
14	10.42	9.90	10.07	10.30	8.94	9.38	13.28	9.95	11.39	---	---	---
15	10.67	9.68	10.14	10.21	8.92	9.54	12.36	10.28	11.29	---	---	---
16	11.38	9.53	10.30	10.11	9.13	9.70	---	---	---	---	---	---
17	11.88	11.34	11.60	10.41	9.19	9.67	---	---	---	---	---	---
18	11.48	11.10	11.31	10.55	9.12	9.79	---	---	---	---	---	---
19	11.11	10.12	10.76	10.48	9.74	10.18	---	---	---	---	---	---
20	10.50	9.87	10.17	11.36	9.71	10.24	---	---	---	---	---	---
21	10.62	10.05	10.33	11.01	9.72	10.29	---	---	---	---	---	---
22	10.74	10.02	10.35	11.66	9.95	10.77	---	---	---	---	---	---
23	10.18	9.63	9.92	---	---	---	---	---	---	---	---	---
24	9.75	9.10	9.35	---	---	---	---	---	---	---	---	---
25	10.55	9.29	10.07	---	---	---	---	---	---	---	---	---
26	10.64	9.43	10.16	---	---	---	---	---	---	---	---	---
27	10.22	8.98	9.76	---	---	---	---	---	---	---	---	---
28	10.23	9.12	9.74	---	---	---	---	---	---	---	---	---
29	10.01	9.48	9.84	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	13.19	11.07	11.84	---	---	---	---	---	---
MONTH	13.21	8.98	10.66	---	---	---	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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325125097023900 Trigg Lake Upper Reach at DFW Airport near Ft Worth, TX—Continued



The U.S. Geological Survey collects limited streamflow data at sites other than continuous stream-gaging stations because 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. 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. 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 of those events. The data collected for special reasons are called measurements at miscellaneous sites.

Streamflow data collected at partial-record stations where water-quality data other than observations of water temperature are not obtained are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations; the second is a table of annual maximum stage and (or) discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flows are given in a third table. Discharge measurements and water-quality data collected at partial-record stations are presented in downstream order in the section of this report entitled "Gaging-station records."

Crest-stage partial-record stations

The following table contains annual maximum stage and (or) discharge at partial-record stations operated primarily for the purpose of defining the flooding characteristics of the streams. At stations where discharge is given, or is footnoted "to be determined", a stage-discharge relation has been, or will be, defined by discharge measurements obtained by current meter or by indirect procedures. Water-stage recorders are located at these flood-hydrograph stations to facilitate complete hydrograph definition. At stations where only the maximum stage is given (discharge column is dashed), the data are generally collected for use in stage-frequency studies of flood-profile definition. Gages at these stations usually consist of a device that will register the peak stage occurring between inspection of the gage. The years used in the column "Period of record" identify the years in which the annual maximum has been determined.

Annual maximum stage and (or) discharge during water year 2004

Station name and number	Location	Period of record	Water Year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft³/s)	Date	Gage height (ft)	Dis-charge (ft³/s)
Trinity River Basin								
Big Fossil Creek Haltom City, TX 08048800	Lat 32°48'26", long 97°14'54", Tarrant County, at center of channel at downstream side of downstream bridge on State Highway 183, 2.0 mi upstream from Little Fossil Creek, 3.5 mi upstream from mouth, and 6.0 mi northeast of Tarrant County Courthouse in Fort Worth. Drainage area is 52.8 mi².	1960-73 [‡] 1974-84 ^φ 1985- 2004	07-20-05	8.41	--a/	09-07-62	26.90 ^{b/}	27,000

[‡] Operated as a continuous-record station.

^φ Operated as an unpublished stage-only station.

a/ Gage Height only, discharge measurement not available.

b/ Peak of record prior to channel rectification and widening in 1964-66. Maximum stage since rectification: 13.76 ft on 05-03-90.

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