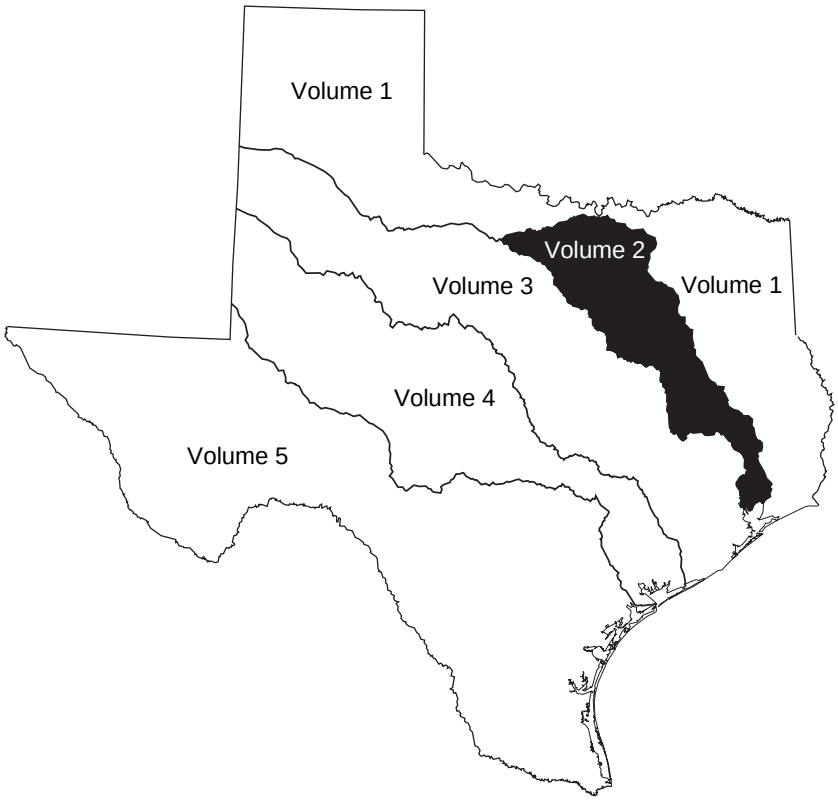
U.S. Department of the Interior
U.S. Geological Survey

# Water Resources Data
# Texas
# Water Year 2002

## Volume 2. Trinity River Basin

By S.C. Gandara

Water-Data Report TX-01-2




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

UNITED STATES DEPARTMENT OF THE INTERIOR

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2003

## 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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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2002 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 45 gaging stations; stage only at 2 gaging stations; stage and contents at 23 lakes and reservoirs; water quality at 27 gaging stations; and data for 2 partial-record stations comprised of 1 flood-hydrograph and 1 crest-stage stations. 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.

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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 | 42 |
| Lyndon B. Johnson National Grasslands near Alvord (c) | 08043900 | 44 |
| Big Sandy Creek near Chico (d) | 08043950 | 46 |
| West Fork Trinity River near Boyd (d) | 08044500 | 47 |
| Walnut Creek at Reno (d) | 08044800 | 50 |
| Eagle Mountain Reservoir above Fort Worth (e) | 08045000 | 52 |
| Lake Worth above Fort Worth (e) | 08045400 | 54 |
| Farmers Branch at Westworth Village, Fort Worth (e) | 08045525 | 56 |
| Lake Weatherford near Weatherford (e) | 08045800 | 58 |
| Clear Fork Trinity River near Weatherford (d) | 08045850 | 60 |
| Benbrook Lake near Benbrook (e) | 08046500 | 62 |
| Clear Fork Trinity River near Benbrook (d) | 08047000 | 66 |
| Mary's Creek at Benbrook (d) | 08047050 | 68 |
| Clear Fork Trinity River at Fort Worth (d) | 08047500 | 70 |
| West Fork Trinity River at Fort Worth (d) | 08048000 | 72 |
| West Fork Trinity River at Beach Street, Fort Worth (d) (c) (t) | 08048543 | 74 |
| Village Creek: | | |
| Village Creek at Everman (d) (c) (t) | 08048970 | 84 |
| Lake Arlington at Arlington (c) (t) | 08049200 | 88 |
| West Fork Trinity River at Grand Prairie (d) (c) (t) (p) | 08049500 | 94 |
| Mountain Creek near Venus (d) | 08049580 | 108 |
| Walnut Creek near Mansfield (d) | 08049700 | 110 |
| Joe Pool Lake near Duncanville (e) | 08049800 | 112 |
| Mountain Creek Lake near Grand Prairie (e) | 08050050 | 114 |
| Mountain Creek at Grand Prairie (d) | 08050100 | 116 |
| Elm Fork Trinity River at Gainesville (d) | 08050400 | 118 |
| Isle du Bois Creek: | | |
| Jordan Creek: | | |
| Timber Creek near Collinsville (d) | 08050800 | 120 |
| Range Creek near Collinsville (d) | 08050840 | 122 |
| Ray Roberts Lake near Pilot Point (e) | 08051100 | 124 |
| Clear Creek near Sanger (d) (c) (t) | 08051500 | 126 |
| Little Elm Creek near Aubrey (d) | 08052700 | 132 |
| Lewisville Lake near Lewisville (e) | 08052800 | 134 |
| Elm Fork Trinity River near Lewisville (d) | 08053000 | 136 |
| Denton Creek near Justin (d) (c) (t) | 08053500 | 138 |
| Elizabeth Creek at State Highway 114 near Roanoke (c) (t) | 08053800 | 142 |
| Grapevine Lake near Grapevine (e) (c) (t) (b) (p) | 08054500 | 144 |
| Denton Creek near Grapevine (c) (t) | 08055000 | 156 |
| Elm Fork Trinity River near Carrollton (d) (p) | 08055500 | 158 |
| Elm Fork Trinity River at Frasier Dam, Dallas (e) | 08056000 | 162 |
| Trinity River at Dallas (d) (p) | 08057000 | 166 |
| Trinity River at Cedar Crest Boulevard, Dallas (c) (t) | 08057055 | 170 |
| White Rock Creek at Greenville Avenue, Dallas (d) (c) (t) | 08057200 | 178 |
| Trinity River below Dallas (c) (t) | 08057410 | 190 |
| Prairie Creek at U.S. Highway 175, Dallas (d) | 08057445 | 194 |
| Trinity River near Wilmer (d) (c) (t) | 08057448 | 196 |
| East Fork Trinity River at McKinney (d) | 08058900 | 206 |
| Sister Grove Creek near Blue Ridge (d) | 08059400 | 208 |
| Lavon Lake near Lavon (e) | 08060500 | 210 |
| Rowlett Creek near Sachse (d) | 08061540 | 212 |

| | Station number | Page |
|---|---|---|
| **WESTERN GULF OF MEXICO BASINS--Continued** | | |
| **TRINITY RIVER BASIN**--Continued | | |
| Trinity River:--Continued | | |
| Lake Ray Hubbard near Forney (e) | 08061550 | 214 |
| East Fork Trinity River near Forney (d) | 08061750 | 216 |
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| Trinity River near Rosser (d) (c) (t) (p) | 08062500 | 222 |
| Trinity River at Trinidad (d) | 08062700 | 236 |
| Cedar Creek: | | |
| Muddy Cedar Creek: | | |
| New Terrell City Lake near Terrell (e) | 08062730 | 238 |
| Cedar Creek Reservoir near Trinidad (e) | 08063010 | 240 |
| Richland Creek near Irene (c) (t) | 08063045 | 242 |
| Navarro Mills Lake near Dawson (e) (c) (t) (b) | 08063050 | 244 |
| Richland Creek near Dawson (d) (c) (t) | 08063100 | 254 |
| Chambers Creek: | | |
| Waxahachie Creek: | | |
| Lake Waxahachie near Waxahachie (e) | 08063600 | 258 |
| Waxahachie Creek near Waxahachie (c) (t) | 08063685 | 260 |
| Bardwell Lake near Ennis (e) (c) (t) (b) | 08063700 | 262 |
| Waxahachie Creek near Bardwell (d) (c) (t) | 08063800 | 270 |
| Chambers Creek near Rice (d) (c) (t) | 08064100 | 274 |
| Post Oak Creek: | | |
| Halbert Lake near Corsicana (e) | 08064510 | 288 |
| Richland-Chambers Reservoir near Kerens (e) | 08064550 | 290 |
| Tehuacana Creek near Streetman (d) (c) (t) | 08064700 | 296 |
| Trinity River near Oakwood (d) | 08065000 | 300 |
| Upper Keechi Creek near Oakwood (d) | 08065200 | 302 |
| Big Elkhart Creek: | | |
| Little Elkhart Creek: | | |
| Houston County Lake near Crockett (e) | 08065330 | 304 |
| Trinity River near Crockett (d) (c) (t) | 08065350 | 306 |
| Bedias Creek near Madisonville (d) | 08065800 | 318 |
| Kickapoo Creek near Onalaska (d) | 08066170 | 320 |
| Livingston Reservoir near Goodrich (e) (c) (t) | 08066190 | 322 |
| Long King Creek at Livingston (d) | 08066200 | 332 |
| Trinity River near Goodrich (d) | 08066250 | 334 |
| Menard Creek near Rye (d) | 08066300 | 336 |
| Trinity River at Romayor (d) | 08066500 | 338 |
| Trinity River at Liberty (d) | 08067000 | 340 |
| CWA Canal near Dayton (d) | 08067070 | 342 |
| Lake Charlotte near Anahuac (e) (c) (t) | 08067118 | 344 |
| Trinity River at Wallisville (e) (c) (t) | 08067252 | 350 |

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Texas have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as partial-record stations. A pound sign (#) after a station indicates a tempoary 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 | 2.5 | 1966-74 |
| Dixon Creek near Borger (d) | 07227920 | 134 | 1974-89 |
| Palo Duro Creek near Canyon (e) | 07229700 | 982 | 1942-54 |
| Palo Duro Creek near Spearman (d) | 07233500# | 1,076 | 1954-79, 1999-2001 |
| 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 |
| Buffalo Lake near Umbarger (e) | 07296000 | 2,075 | 1938-54 |
| Tierra Blanca Creek below Buffalo Lake near Umbarger (d) | 07296100 | 2,075 | 1967-73 |
| Prairie Dog Town Fork Red River near Canyon (d) | 07297500 | 3,369 | 1924-26, 1938-49 |
| 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 |
| Prairie Dog Town Fork Red River near Brice (d) | 07298500 | 6,082 | 1939-44, 1949-51, 1960-63 |
| 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 | 65.50 | 1974-82 |
| Jonah Creek below Weir near Estelline (d) | 07299514 | 66.60 | 1974-76 |
| Jonah Creek at mouth near Estelline (d) | 07299516 | 76 | 1974-76 |
| Salt Creek near Estelline (d) | 07299530 | 142 | 1974-79 |
| Buck Creek near Wellington (e) | 07299550 | 210 | 1951-64 |
| Red River near Quanah (d) | 07299570 | 8,321 | 1960-82 |
| North Groesbeck Creek Tributary near Kirkland (d) | 07299575 | 0.16 | 1966-74 |
| Wanders 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 | 1951-70 |
| Salt Fork Red River near Hedley (e) | 07299930 | 744 | 1951, 1956-62 |
| Oklahoma Draw Tributary near Hedley (e) | 07299940 | 1.1 | 1965-74 |
| Sweetwater Creek near Wheeler (e) | 07301400 | 164 | 1951-64 |
| Doodlebug Creek near Wheeler (e) | 07301405 | 0.19 | 1967-73 |
| Elm Creek near Shamrock (e) | 07303300 | N/A | 1947-89 |
| 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 | N/A | 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Middle Pease River 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 |
| China Creek near Electra (e) | 07308400 | 37 | 1967-76 |
| North Fork Wichita River near Crowell (d) | 07311622 | 591 | 1971-76 |
| Middle Fork Wichita River near Truscott (d) | 07311648 | 161 | 1971-76 |
| 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 |
| Beaver Creek Tributary near Crowell (e) | 07312140 | 3.43 | 1966-74 |
| Wolf Creek near Iowa Park (e) | 07312300 | 8.5 | 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 | 1968-77 |
| Sandy Creek near Sadler (e) | 07316230 | 24 | 1968-74 |
| Lake Texoma near Denison (e) | 07331500 | 39,719 | 1942-93, 2000 |
| Bois D'Arc Creek near Randolph (d) | 07332600 | 72 | 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 | 75.40 | 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 | 31.5 | 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 | 1943-77 |
| Ellison Creek Reservoir near Lone Star (e) | 07345500 | 37 | 1943-62, 1974-89 |
| Cypress Creek Tributary near Jefferson (e) | 07346010 | 0.51 | 1966-74 |
| Taylor Branch near Smithland (e) | 07346072 | 0.73 | 1966-74 |
| Big Cypress Creek near Karnack (e) | 07346085 | 2,174 | 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 | 33.10 | 1979-89 |
| Dry Creek near Quitman (e) | 08018950 | 63.6 | 1968-75 |
| Lake Winnsboro near Winnsboro (d) | 08019300 | 27.1 | 1962-86 |
| Big Sandy Creek near Hawkins (e) | 08019430 | 196 | 1980-82 |
| Prairie Creek near Gladewater (d) | 08020200 | 48.90 | 1968-77 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Sabine River near Longview (d) | 08020500 | 2,947 | 1904-07, 1924-33 |
| Rabbit Creek at Kilgore (d) | 08020700 | 75.80 | 1964-77 |
| Grace Creek Tributary at Longview (e) | 08020800 | 5.05 | 1967-74 |
| Mill Creek near Henderson (d) | 08020960 | 20.30 | 1979-81 |
| Mill Creek near Longview (d) | 08020980 | 47.90 | 1979-81 |
| Tiawichi Creek near Longview (d) | 08020990 | 62.70 | 1978-81 |
| Cherokee Bayou near Elderville (d) | 08021000 | 120 | 1940-49 |
| Lake Cherokee near Longview (e) | 08021500 | 158 | 1951-83 |
| Sabine River near Tatum (d) | 08022000 | 3,493 | 1939-78, |
| " " " " (e) | | | 1979-82 |
| Redmon Branch near Hallesville (e) | 08022010 | 0.46 | 1966-74 |
| Eight Mile Creek near Tatum (e) | 08022050 | 106 | 1962-71 |
| 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 | 82.60 | 1962-73 |
| Tenaha Creek near Shelbyville (d) | 08023200 | 97.80 | 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 | 17.6 | 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 | 69.20 | 1952-83 |
| Adams Bayou Tributary near Deweyville (e) | 08030700 | 12.4 | 1966-74 |
| Cow Bayou near Mauriceville (d) | 08031000 | 83.30 | 1952-86 |
| 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 | 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 | 75.30 | 1938-40 |
| Angelina River near Zavalla (d) | 08038500 | 2,892 | 1952-65 |
| Ayish Bayou at San Augustine (d) | 08039000 | 15.80 | 1924-25 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Angelina River at Horger (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 | 4.43 | 1967-74 |
| North Creek SWS No. 28-A near Jermyn (e) | 08042650 | 6.82 | 1972-80 |
| North Creek near Jacksboro (d) | 08042700 | 21.60 | 1956-80 |
| Beans Creek at Wizard Wells (e) | 08042900 | 29.60 | 1993-95 |
| West Fork Trinity River 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 |
| 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 | 16.80 | 1950-58 |
| Sycamore Creek at I.H. 35W, Fort Worth (d) | 08048520 | 17.70 | 1970-76 |
| Sycamore Creek Trib. above Seminary South, 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 | 12.30 | 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 above Duncanville (e) | 08049850 | 224 | 1986-87 |
| 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 | 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 | 46.70 | 1966-76 |
| Hickory Creek at Denton (d) | 08052780 | 129 | 1985-87 |
| Indian Creek at Hebron Parkway at Carrollton (d) | 08053010 | 15.0 | 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 |
| Denton Creek near Grapevine (d) | 08055000 | 705 | 1948-91 |
| Joe's Creek at Royal Lane, Dallas (e) | 08055580 | 1.94 | 1973-78 |
| Joes Creek near Dallas (e) | 08055600 | 7.4 | 1964-79 |
| Bachman Branch at Dallas (d) | 08055700 | 10 | 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 | 29.40 | 1961-79 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Spanky Branch at McCallum Lane at Dallas (e) | 08057120 | 6.77 | 1962-78 |
| Rush Branch at Arapaho Road, Dallas (e) | 08057130 | 1.22 | 1973-78 |
| Newton Creek at Interstate Highway 635, Dallas (e) | 08057135 | 5.91 | 1974-78 |
| 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 |
| Trinity River below Dallas (d) | 08057410 | 6,278 | 1956-98 |
| Elm Creek at Seco Boulevard, Dallas (e) | 08057415 | 1.25 | 1973-78 |
| Fivemile Creek at Kiest Boulevard, Dallas (e) | 08057418 | 7.65 | 1974-78 |
| Fivemile Creek at US Highway 77 West, Dallas (e) | 08057420 | 14.30 | 1965-78 |
| Woody Branch at US Highway 77 West, Dallas (e) | 08057425 | 10.30 | 1965-78 |
| Fivemile Creek at Lancaster Road, Dallas (e) | 08057430 | 37.90 | 1965-78 |
| White Branch at Interstate Highway 635, Dallas (e) | 08057440 | 2.53 | 1974-78 |
| Tenmile Creek at State Highway 342 at Lancaster (d) | 08057450 | 52.80 | 1970-79 |
| 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 | 13.40 | 1969-76 |
| South Mesquite Creek at Mercury Road near Mesquite (d) | 08061950 | 23 | 1969-79 |
| Cedar Creek Reservoir Spillway Outflow near Trinidad (d) | 08062650 | 1,007 | 1966-82 |
| Cedar Creek near Kemp (d) | 08062800 | 189 | 1963-87 |
| 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 | 27.40 | 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 | 17.60 | 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 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 | 38.80 | 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 | 6.7 | 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 | 40.40 | 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 |
| 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 at 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 |
| Little White Oak Bayou at Houston (e) | 08074550 | 20.9 | 1971-79 |
| Buffalo Bayou at Main St., Houston (d) | 08074600* | 469 | 1962-94 |
| Buffalo Bayou at McKee Street, Houston (d) | 08074610 | 469 | 1992-2000 |
| Buffalo Bayou at 69th Street, Houston (e) | 08074700 | 476 | 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* | 7.47 | 1964-71 |
| Keegans Bayou at Roark Road near Houston (d) | 08074800* | 13.0 | 1964-85 |
| Bintliff Ditch at Bissonnet Street, Houston (e) | 08074850 | 4.38 | 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 |
| 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 Forest Oaks Street, Houston (e) | 08075650* | 10.7 | 1968-82 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Berry Bayou at Galveston Road, Houston (e) | 08075700 | 4.86 | 1965-72 |
| Huntington Bayou Tributary at Cavalcade Street, Houston (e) | 08075750 | 1.20 | 1965-72 |
| Huntington 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 at Cloverleaf (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 | 1965-74 |
| Clear Creek near Friendswood (e) | 08077600 | 126 | 1966-94 |
| Armand Bayou near Genoa (e) | 08077620 | 18.2 | 1968, 1971-73 |
| Highland Bayou at Hitchcock (e) | 08077700 | 15.6 | 1963-82 |
| Highland Bayou Tributary near Texas City (e) | 08077750 | 1.97 | 1966-73 |
| Highland Bayou near Texas City (e) | 08077780 | 20.8 | 1965-88 |
| 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, |
| North Fork Double Mountain Fork Brazos River above Buffalo Springs nr Lubbock (e) | 08079530 | 29.3 | 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 | 438 | 1984-93 |
| Rattlesnake Creek near Post (e) | 08079580 | 2.75 | 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 |
| Running Water Draw at Plainview (d) | 08080700 | 1,291 | 1939-53, 1957-78 |
| 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 | 529 | 1951-64 |
| Salt Fork Brazos River at Farm Road 1081 near Clairemont (e) | 08080916 | 1,135 | 1968-77 |
| Red Mud Creek near Spur (e) | 08080918 | 65.1 | 1967-74 |
| Salt Fork Brazos River at State Highway 208 near Clairemont (e) | 08080940 | 1,357 | 1968-77 |
| Duck Creek near Girard (d) | 08080950 | 431 | 1965-89 |
| Salt Fork Brazos River at U.S. Highway 380 near Jayton (e) | 08080959 | 1,797 | 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 | 64.30 | 1957-77 |
| Stinking Creek near Aspermont (d) | 08082100 | 88.80 | 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 | 39.10 | 1964-79 |
| Elm Creek at Abilene (d) | 08083430 | 422 | 1980-83 |
| Cedar Creek at Abilene (d) | 08083470 | 119 | 1971-84 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 |
| Deep Creek at Moran (d) | 08086050 | 228 | 1963-75 |
| 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 | 61 | 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 | 22.90 | 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 | 26.40 | 1967-75 |
| Big Sandy Creek near Breckenridge (e) | 08086300 | 288 | 1962-75 |
| Hubbard Creek near Breckenridge (d) | 08086500 | 1,089 | 1955-86 |
| 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 | 11.80 | 1958-77 |
| Salt Creek near Newcastle (d) | 08088200 | 120 | 1958-60 |
| Briar Creek near Graham (d) | 08088300 | 24.20 | 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 | 14,030 | 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* | 282.0 | 1924-87 |
| Brazos River near Whitney (d) | 08093000 | 17,648 | 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 and 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 | 95.90 | 1958-79 |
| Green Creek SWS #1 near Dublin (d) | 08094000 | 4.19 | 1955-77 |
| Green Creek near Alexander (d) | 08094500 | 45.40 | 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* | 182.0 | 1959-86 |
| Hog Creek near Crawford (d) | 08095400* | 78.0 | 1959-86 |
| South Bosque River near Speegleville (d) | 08095500 | 386 | 1924-30 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 | 83.50 | 1958-75 |
| Brazos River near Marlin (d) | 08097500 | 30,211 | 1939-51 |
| Deer Creek at Chilton (d) | 08098000 | 84.50 | 1934-36 |
| Little Pond Creek at Burlington (d) | 08098300 | 23 | 1963-82 |
| Leon River near De Leon (d) | 08099100* | 479.0 | 1960-87 |
| Sabana River near De Leon (d) | 08099300* | 264.0 | 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 Youngsport (d) | 08104000 | 1,240 | 1924-80 |
| Lampasas River near Belton (d) | 08104100* | 1,321 | 1963-89 |
| Salado Creek above Salado (e) | 08104290* | 134 | 1985-88 |
| Salado Creek below Salado Springs (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 | 268 | 1964-68 |
| South Fork San Gabriel River near Bertram (e) | 08104850 | 8.9 | 1967-74 |
| San Gabriel River at Georgetown (d) | 08105000* | 405 | 1924-25, 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 | 205.0 | 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 | 74.70 | 1934-36 |
| Big Elm Creek near Buckholts (d) | 08107500 | 171 | 1934-36 |
| North Elm Creek near Ben Arnold (d) | 08108000 | 32.20 | 1935-36 |
| North Elm Creek near Cameron (d) | 08108200 | 44.80 | 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 | 30,033 | 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 |
| Mill Creek near Bellville (d) | 08111700 | 376 | 1963-93 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Brazos River near San Felipe (d) | 08112000 | 35,100 | 1939-57 |
| Brazos River near Wallis (e) | 08112200 | 44,700 | 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 | 45,084 | 1949-69 |
| Seabourne Creek near Rosenberg (e) | 08114900 | 5.78 | 1968-74 |
| Fairchild Creek near Needville (d) | 08115500 | 26.20 | 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 | 12.20 | 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 | 10.30 | 1970-77 |
| Bull Creek near Ira (d) | 08118500 | 26.30 | 1948-54, 1959-62 |
| Colorado River below Bull Creek near Ira (e) | 08118600 | 3,524 | 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 |
| Morgan Creek near Westbrook (d) | 08121500 | 273 | 1954-63 |
| Graze Creek near Westbrook (d) | 08122000 | 21.70 | 1954-59 |
| 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 | 41.80 | 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 | 0.4 | 1966-74 |
| Colorado River near Silver (d) | 08123900 | 14,997 | 1957-70 |
| Bitter Creek near Silver (e) | 08123920 | 4.3 | 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* | 424.7 | 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* | 588.0 | 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 | 5,610 | 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Mukewater Creek SWS No. 10A near Trickham (e) | 08136900 | 15.3 | 1965-72 |
| Mukewater Creek SWS No. 9 near Trickham (e) | 08137000 | 4.02 | 1961-72 |
| Mukewater Creek at Trickham (d) | 08137500 | 70 | 1951-73 |
| Deep Creek SWS No. 3 near Placid (e) | 08139000 | 3.42 | 1954-60 |
| Deep Creek near Mercury (d) | 08139500 | 43.90 | 1954-73 |
| Deep Creek SWS No. 8 near Mercury (e) | 08140000 | 5.14 | 1952-71 |
| Dry Prong Deep Creek near Mercury (d) | 08140500 | 8.31 | 1951-71 |
| Lake Clyde near Clyde (e) | 08140600 | 36.9 | 1970-85 |
| 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 | 54.20 | 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 | 15.20 | 1967-73 |
| Pedernales River at Stonewall (d) | 08153000 | 647 | 1924-34 |
| Cane Branch at Stonewall (e) | 08153100 | 1.37 | 1965-71 |
| Pedernales River near Spicewood (d) | 08154000 | 1,294 | 1924-39 |
| Lake Travis near Austin (d) | 08154500 | 38,755 | 1940-90 |
| 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) | 08155400 | 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 | 12.30 | 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 | 2.4 | 1997-2001 |
| Blunn Creek near Little Stacey Park, Austin | 08157700 | 1.2 | 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 | 12.60 | 1975-88 |
| Walnut Creek at Dessau Road, Austin (e) | 08158200 | 26.20 | 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 | 27.60 | 1975-85 |
| Onion Creek below Del Valle (e) | 08159100 | 339 | 1962-75 |
| Wilbarger Creek near Pflugerville (d) | 08159150 | 4.6 | 1963-80 |
| Big Sandy Creek near McDade (d) | 08159165 | 38.70 | 1979-85 |
| Big Sandy Creek near Elgin (d) | 08159170 | 63.80 | 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 | 3.4 | 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 | 826 | 1939-80 |
| Guadalupe River above Kerrville (e) | 08166150 | 488 | 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 | 10.90 | 1960-79 |
| Blieders Creek at New Braunfels (e) | 08168600 | 16.0 | 1962-89 |
| Panther Canyon at New Braunfels (e) | 08168700 | 0.73 | 1962-89 |
| 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 |
| Dry Comal Creek at New Braunfels (e) | 08168800 | N/A | 1962-74 |
| 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 |
| Coleto Creek Reservoir inflow (Guadalupe diversion) near Schroeder (d) | 08176990 | 357 | 1980-94 |
| Coleto 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 | N/A | 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* | 2.60 | 1916-29 |
| Harlandale Creek at W. Harding Street, San Antonio (e) | 08178555 | 2.43 | 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| Salado Creek at Rittman Road, San Antonio (e) | 08178720 | 137.1 | 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 | | 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 | 77.20 | 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 |
| Ecleto Creek near Runge (d) | 08186500 | 239 | 1962-89 |
| Escondido Creek SWS No. 1 (inflow) near Kenedy (e) | 08187000 | 3.29 | 1955-73 |
| Escondido Creek at Kenedy (d) | 08187500 | 72.40 | 1954-73 |
| Escondido Creek SWS No. 11 (inflow) near Kenedy (e) | 08187900 | 8.45 | 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 |
| Chiltipin Creek at Sinton (d) | 08189800 | 128 | 1970-91 |
| Nueces River near Uvalde (d) | 08191500 | 1,930 | 1928-39 |
| Nueces River near Cinonia (d) | 08192500 | 2,150 | 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 | 53.20 | 1952-61 |
| Seco Creek Reservoir inflow near Utopia (d) | 08202450 | 59.5 | 1991-98 |
| Seco Creek near D'Hanis (d) | 08202500 | 87.40 | 1952-64 |
| Parkers Creek Reservoir (d) | 08202800 | 10.0 | 1991-99 |
| Leona River Tributary near Uvalde (e) | 08203500 | 1.21 | 1966-74 |
| Leona River Spring Flow near Uvalde (d) | 08204000* | 1.21 | 1939-77 |
| Leona River near Divot (d) | 08204500 | 565 | 1924-29 |
| Frio River at Calliham (d) | 08207000 | 5,491 | 1925-26, 1932-81 |
| Rutledge Hollow Creek near Poteet (e) | 08207200 | 9.33 | 1966-74 |
| Rutledge Hollow at 7th Street, Poteet (d) | 08207220 | N/A | 1979-2000 |
| Atascoas River at U.S. Highway 281, Pleasanton (d) | 08207300 | N/A | 1973-2000 |
| Atascosa River near McCoy (d) | 08207500 | 530 | 1951-57 |
| Lucas Creek near Pleasanton (e) | 08207700 | 32.80 | 1966-73 |
| Ramirena Creek near George West (d) | 08210300 | 84.40 | 1968-72 |
| Lagarto Creek near George West (d) | 08210400 | 155 | 1972-89 |
| Nueces River below Mathis (d) | 08211100 | 16,726 | 1966-67 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 Las 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 | 11.89 | 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 |
| Rio Grande at Jaurez, MX (d) | 08366000 | 29,350 | 1938-56 |
| Riverside Canal near Socorro (d) | 08366400 | 37,830 | 1969-72 |
| Rio Grande at Island Station near El Paso (d) | 08366500 | 29,743 | 1938-60 |
| Rio Grande at Tornillo Branch near Fabens (d) | 08367000 | N/A | 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 | 30,610 | 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 | N/A | 1901-13, 1924-54 |
| Rio Grande at Langtry (d) | 08377500 | 84,795 | 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, 1969-73 |
| Reeves County WID No. 2 Canal near Mentone (d) | 08414500 | N/A | 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 | 53.80 | 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 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| 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 | 27.90 | 1971-76 |
| Alpine Creek at Alpine (d) | 08435620 | 18.10 | 1971-76 |
| Moss Creek near Alpine (d) | 08435660 | 11.30 | 1971-76 |
| Sunny Glen Canyon near Alpine (d) | 08435700 | 29.70 | 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 |
| Pecos River near Comstock (d) | 08447500 | 35,298 | 1900-54 |
| 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, 1964-73 |
| Devils River near Comstock (d) | 08449300 | 3,903 | 1955-58 |
| 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 |
| International Falcon Reservoir near Falcon Heights (d) | 08461200 | N/A | 1953-60 |
| Rio Grande at Roma (d) | 08462500 | 166,464 | 1900-13, 1923-54 |
| Rio Grande near Rio Grande City (d) | 08465500 | 180,941 | 1932-54 |
| 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 |
| North Floodway South of McAllen (d) | 08468000 | N/A | 1928-60 |

| Station name | Station number | Drainage area ($mi^2$) | Period of record (water years) |
|---|---|---|---|
| South Floodway South of McAllen (d) | 08470000 | N/A | 1929-60 |
| 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 at Matamoros, MX (d) | 08474500 | 182,211 | 1900-13, 1923-54 |
| Rio Grande near Brownsville (d) | 08475000 | 176,333 | 1935-50 |

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 | 4,221 | 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 | 65.50 | SC | 1974-82 |
| Jonah Creek below Weir near Estelline | 07299514 | 66.60 | 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 | 868 | SC, T, pH, Cl | 1956-61 |
| Salt Fork Red River near Wellington | 07300000 | 1,222 | SC, T, pH, Cl | 1952-54, |
| | | | SC, T | 1968-91 |
| North Pease River near Childress | 07307600 | 1,434 | SC, T | 1973-79 |
| Middle Pease River 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 |
| Red River near Burkburnett | 07308500 | 20,570 | SC, T | 1968-81 |
| North Fork Wichita River near Paducah | 07311600 | 540 | SC, T | 1968-76 |
| 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 |
| North Fork Wichita River near Truscott | 07311700 | 937 | SC, T | 1969-92 |
| South Fork Wichita River near Guthrie | 07311780 | 239 | SC | 1970-76 |
| South Wichita River below Low-Flow Dam near Guthrie | 07311783 | 223 | SC, T | 1987-89 |
| South Fork Wichita River at Ross Ranch near Guthrie | 07311790 | 499 | SC | 1971-79, |
| | | | Cl | 1988-97, |
| | | | S | 1978-79 |
| Wichita River near Seymour | 07311900 | 1,874 | SC, T | 1968-79 |
| Beaver Creek near Electra | 07312200 | 652 | SC,T | 1969-70 |
| | | | | 1996-99 |
| Little Wichita River near Archer City | 07314500 | 481 | SC | 1953-55, |
| | | | T | 1953-54 |
| Little Wichita River near 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, |
| East Fork Little Wichita River near Henrietta | 07315200 | 178 | T | 1954 |
| Little Wichita River near Ringgold | 07315400 | 1,350 | SC, pH, Cl | 1959-62 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| Red River near Gainesville | 07316000 | 30,872 | SC, Cl | 1944-46, |
| | | | SC, T, pH, Cl | 1953-63, |
| | | | SC, T | 1967-89, |
| Red River at Denison Dam near Denison | 07331600 | 39,720 | SC | 1944-89, |
| | | | T | 1945-89 |
| Little Pine Creek near Kanawha | 07336750 | 75.40 | T | 1980 |
| Red River near De Kalb | 07336820 | 47,348 | SC, T | 1968-91 |
| Middle Sulphur River near Commerce | 07342480 | 44.1 | Cl, pH | 1987-2001 |
| South Sulphur River near Cooper | 07342500 | 527 | SC, T, pH, Cl | 1959-66, |
| | | | | 1968-72, |
| | | | SC, T | 1973-89 |
| Sulphur River near Talco | 07343200 | 1,365 | SC, T, pH, Cl | 1966-72, |
| | | | SC, T | 1973-91 |
| White Oak Creek near Talco | 07343500 | 494 | SC, T, pH, Cl | 1966-72, |
| | | | SC, T | 1973-91 |
| Sulphur River near Darden | 07344000 | 2,774 | SC, T, pH, Cl | 1947-50 |
| Big Cypress Creek near Pittsburg | 07344500 | 366 | SC, T, pH, Cl | 1968-72, |
| | | | SC, T | 1973-89 |
| Little Cypress Creek near Jefferson | 07346070 | 675 | SC, T, pH, Cl | 1968-72, |
| | | | SC, T | 1973-91 |
| Sabine River near Emory | 08017500 | 888 | SC, T, pH, Cl | 1952-54 |
| Grand Saline Creek near Grand Saline | 08018200 | 91.40 | SC, T, pH, Cl | 1968-73 |
| Sabine River near Mineola | 08018500 | 1,357 | SC, T, pH, Cl | 1968-72, |
| | | | SC, T | 1973-92 |
| Lake Fork Creek near Quitman | 08019000 | 585 | SC, T, pH, Cl | 1968-72, |
| | | | SC, T | 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 | 1969-86, |
| | | | C | 1969-75 |
| Sabine River near Bon Wier | 08028500 | 8,229 | SC, T, C | 1969-84 |
| Sabine River near Ruliff | 08030500 | 9,329 | SC | 1945, |
| | | | | 1947-98 |
| | | | T | 1947-98 |
| | | | pH, DO | 1968-75, |
| | | | C | 1970-76, |
| | | | Cl | 1968 |
| Cow Bayou near Mauriceville | 08031000 | 83.30 | SC, T, pH, Cl | 1952-54, |
| | | | SC, T | 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 | 1955-78, |
| | | | SC, T | 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 at SH 63 near Ebenezer | 08039500 | 3,435 | 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 | 1968-72, |
| | | | SC, T | 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 | 1949-52, |
| | | | T | 1948-62 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| Village Creek at Everman | 08048970 | 84.5 | SC, pH, T, DO | 1990 |
| Elm Fork Trinity River SWS # 6-0 near Muenster | 08050200 | 0.77 | S | 1957-66 |
| Elm Fork Trinity River near Muenster | 08050300 | 46 | SC | 1967-68, |
| | | | T | 1957-58, |
| | | | | 1966-68, |
| | | | S | 1957-68 |
| Clear Creek near Sanger | 08051500 | 295 | SC, T, S | 1968-77 |
| Little Elm Creek near Celina | 08052650 | 46.70 | SC | 1967-75, |
| | | | T, S | 1966-75 |
| Little Elm Creek near Aubrey | 08052700 | 75.50 | 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 | 17.60 | 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 |
| Trinity River near Moss Bluff | 08067100 | 17,738 | SC, pH, Cl | 1950-65 |
| Old River near Cove | 08067200 | 19.0 | SC, pH, Cl | 1950-65, |
| | | | T | 1965 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| Trinity River at Anahuac | 08067300 | 17,912 | SC, pH, Cl | 1950-65 |
| Cedar Bayou near Crosby | 08067500 | 69.4 | 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 | 34.50 | 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, |
| | | | T | 1949-54 |
| Buffalo Bayou at West Belt Drive at Houston | 08073600 | 307 | SC, T | 1979-81 |
| Buffalo Bayou at Houston | 08074000 | 358 | SC, pH, T, DO | 1986-2000 |
| | | | Cl | 1969-81 |
| Whiteoak Bayou at Main Street, Houston | 08074598 | 127 | SC, T, DO | 1992-97 |
| Buffalo Bayou at Main Street, Houston | 08074600 | 469 | SC, T, DO | 1986-92 |
| Buffalo Bayou at McKee Street, Houston | 08074610 | 469 | SC, T, DO | 1992-2000 |
| | | | pH | 1998-2000 |
| Sims Bayou at Houston | 08075500 | 63.0 | SC, T, DO | 1994-97 |
| Chocolate Bayou near Alvin | 08078000 | 87.70 | SC, T | 1978-81 |
| North Fork Double Mountain Fork Brazos River near Post | 08079575 | 438 | SC, T | 1984-93 |
| Double Mountain Fork Brazos River near Rotan | 08080000 | 8,536 | SC, T | 1950-51 |
| Double Mountain Fork Brazos River near Aspermont | 08080500 | 8,796 | SC, T, S | 1949-51 |
| | | | SC, T | 1957-95 |
| McDonald Creek near Post | 08080540 | 103 | SC, T | 1964-78 |
| Salt Fork Brazos River near Peacock | 08081000 | 4,619 | SC, T | 1950-51, |
| | | | | 1965-86 |
| Croton Creek near Jayton | 08081200 | 290 | SC, T | 1961-80 |
| Salt Croton Creek near Aspermont | 08081500 | 64.30 | SC | 1969-77, |
| | | | T | 1972-73 |
| Salt Fork Brazos River near Aspermont | 08082000 | 5,130 | SC, T, pH, Cl | 1949-51, |
| | | | SC, T | 1957-82 |
| Stinking Creek near Aspermont | 08082100 | 88.80 | T | 1950, |
| | | | SC, T | 1966-69 |
| North Croton Creek near Knox City | 08082180 | 251 | SC, T | 1966-86 |
| Brazos River at Seymour | 08082500 | 15,538 | SC, T | 1960-95 |
| Medina River near Somerset | 08082800 | 967 | SC, T, Cl | 1998-2000 |
| Clear Fork Brazos River at Hawley | 08083240 | 1,416 | SC, T | 1968-79, |
| | | | | 1982-84 |
| Clear Fork Brazos River at Nugent | 08084000 | 2,199 | SC, T, pH, Cl | 1948-53 |
| California Creek near Stamford | 08084800 | 478 | SC, T | 1963-79 |
| Paint Creek near Haskell | 08085000 | 914 | SC, T | 1950-5 |
| Clear Fork Brazos River at Fort Griffin | 08085500 | 3,988 | SC, T, S | 1950-51, |
| | | | SC, T | 1968-79, |
| | | | | 1982-84 |
| Hubbard Creek near Sedwick | 08086015 | 128 | SC, T | 1964-66 |
| Deep Creek at Moran | 08086050 | 228 | SC, T | 1963-75 |
| Hubbard Creek near Albany | 08086100 | 454 | SC, T | 1962-75 |
| Salt Prong Hubbard Creek at U.S. Highway 380 near Albany | 08086120 | 61 | SC, T | 1964-68 |
| North Fork Hubbard Creek near Albany | 08086150 | 39.30 | SC, T | 1964-90 |
| Salt Prong Hubbard Creek near Albany | 08086200 | 115 | SC, T | 1962-63 |
| Snailum Creek near Albany | 08086210 | 22.90 | SC, T | 1964-66 |
| Battle Creek near Moran | 08086235 | 108 | SC, T | 1967-68 |
| Pecan Creek near Eolian | 08086260 | 26.40 | SC, T | 1967-75 |
| Big Sandy Creek near Breckenridge | 08086300 | 288 | SC, T | 1962-77 |
| Hubbard Creek near Breckenridge | 08086500 | 1,089 | SC, T | 1955-75 |
| Clear Fork Brazos River at Eliasville | 08087300 | 5,697 | SC, T | 1962-82 |
| Brazos River near South Bend | 08088000 | 22,673 | SC, Cl | 1942-48, |
| | | | SC, T | 1978-81 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| Salt Creek at Olney | 08088100 | 11.80 | SC, T | 1958-60 |
| Salt Creek near Newcastle | 08088200 | 120 | SC, T | 1958-60 |
| Brazos River at Morris Sheppard Dam near Graford | 08088600 | 23,596 | SC<br>T | 1942-91,<br>1950-55,<br>1966-91 |
| Brazos River near Dennis | 08090800 | 25,237 | SC, T | 1971-95 |
| Brazos River at Whitney Dam near Whitney | 08092600 | 27,189 | SC, T | 1947-97 |
| Aquilla Creek above Aquilla | 08093360 | 255 | SC, T | 1980-83 |
| Aquilla Creek near Aquilla | 08093500 | 308 | SC, T | 196066,<br>1968-82 |
| 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,<br>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,<br>1980-82 |
| Little River near 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,<br>1947 |
| Navasota River near Bryan | 08111000 | 1,454 | SC, T<br>S | 1959-81,<br>1976-81 |
| Brazos River near Richmond | 08114000 | 45,007 | S<br>SC<br>T | 1966-86,<br>1942-95,<br>1951-95 |
| Brazos River near Rosharon | 08116650 | 45,399 | SC, T | 1969-80 |
| Brazos River at Harris Reservoir near Angleton | 08116700 | 44,000 | SC<br>T | 1962-77,<br>1967-77 |
| Brazos River at Brazoria Reservoir near Brazoria | 08117200 | 44,000 | SC<br>T | 1962-77,<br>1967-77 |
| San Bernard River near Boling | 08117500 | 727 | SC, T | 1978-81 |
| Colorado River above Bull Creek near Knapp | 08118200 | N/A | SC, T, Cl | 1950-52 |
| Bull Creek near Ira | 08118500 | 26.30 | SC, T, pH, Cl | 1950-51 |
| Bluff Creek near Ira | 08119000 | 42.60 | SC, T, pH, Cl | 1950 |
| Colorado River near Ira | 08119500 | 3,483 | SC, T<br>Cl | 1950-52,<br>1959-70,<br>1975-82,<br>1951-52 |
| Deep Creek near Dunn | 08120500 | 198 | SC, T | 1953-54 |
| Morgan Creek near Westbrook | 08121500 | 273 | T | 1954-55 |
| Graze Creek near Westbrook | 08122000 | 21.70 | T | 1954-55 |
| Morgan Creek near Colorado City | 08122500 | 313 | T | 1947-49 |
| Lake Colorado City near Colorado City | 08123000 | 340 | T | 1954-55 |
| Beals Creek above Big Spring | 08123650 | 9,319 | SC, T | 1973-78 |
| Beals Creek near 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 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| Colorado River at Robert Lee | 08124000 | 15,307 | SC, T, pH, Cl | 1948-51, |
| | | | S | 1949-51 |
| Oak Creek near Blackwell | 08126000 | 209 | SC, T | 1950 |
| Colorado River at Ballinger | 08126500 | 16,413 | SC, T | 1961-79, |
| | | | S | 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 near San Saba | 08145500 | N/A | SC, T | 1962-65 |
| San Saba River at San Saba | 08146000 | 3,046 | SC | 1962-69, |
| | | | T | 1963-70 |
| Colorado River near San Saba | 08147000 | 37,217 | SC, T | 1947-92, |
| | | | S | 1951-62 |
| Llano River at Llano | 08151500 | 4,197 | SC, T | 1979-81 |
| Lake Austin at Austin | 08154900 | 38,240 | 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 | 2.4 | Cl | 1997-2000 |
| Blunn Creek near Little Stacey Park, Austin | 08157700 | 1.2 | | 1997-2001 |
| Boggy Creek at US Highway 183, Austin | 08158050 | 13.1 | C | 1977-86 |
| | | | C, T | 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 | 1967-73, |
| | | | T | 1957-59, |
| | | | | 1961-68 |
| | | | S | 1957-73 |
| Colorado River at Wharton | 08162000 | 42,003 | SC | 1945-92, |
| | | | T | 1946-48, |
| Lavaca River near Edna | 08164000 | 817 | SC, T | 1978-81 |
| Navidad River near Speaks | 08164350 | 437 | SC, T, pH, Cl | 1996-97 |
| Navidad River near Ganado | 08164500 | 826 | 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 | 1966 |
| | | | Cl | 1962-99 |
| Guadalupe River at Victoria | 08176500 | 5,198 | SC | 1946-81, |
| | | | T | 1951-81 |
| Coleto Creek Reservoir (Condenser No. 1) near Fannin | 08177360 | 414 | T | 1980-94 |
| Coleto Creek Reservoir (outflow) near Victoria | 08177410 | 494 | T | 1980-94 |
| Olmos Creek at Dresden Drive, San Antonio | 08177700 | 21.2 | SC, pH, T, DO | 1969-99 |
| | | | S | 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 |
| Ingram Road Outfall at Leon Creek Tributary at San Antonio | 08181410 | 0.02 | SC, pH, T, DO | 1994-2000 |
| Leon Creek at Interstate Highway 35 at San Antonio | 08181480 | 219 | SC, pH, T, DO | 1985-2000 |
| Medina River at San Antonio | 08181500 | 1,317 | SC, pH, T, DO | 1987-2000 |
| | | | Cl | 1965-2000 |
| San Antonio River near Falls City | 08183500 | 2,113 | SC, pH, T, DO | 1987-96 |

| Station name | Station number | Drainage area ($mi^2$) | Type of record | Period of record (water years) |
|---|---|---|---|---|
| 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 | 08211000 | 16,772 | SC, T | 1948-91 |
| Los Olmos Creek near Falfurrias | 08212400 | 480 | SC, T | 1975-81 |
| Rio Grande at El Paso | 08364000 | 29,267 | SC, pH, T, DO | 1930-2000 |
| Rio Grande at Fort Quitman | 08370500 | 31,944 | 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 Draw near Pecos | 08431500 | 1,882 | SC | 1940, |
| | | | | 1944 |
| Toyah Creek below Toyah Lake near Pecos | 08434000 | 3,709 | SC | 1940-50, |
| | | | Cl | 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 | N/A | SC, pH, T | 1977-2000 |
| Rio Grande at Mission Pumping Plant | 08468000 | 171,800 | SC | 1945-50 |
| Rio Grande below Anzalduas Dam | 08469200 | 176,112 | SC, pH, T | 1967-72, |
| | | | | 1959-2000 |
| Rio Grande at Cameron Co. WID #2 near San Benito | 08473800 | N/A | SC | 1942-43 |
| Rio Grande at Los Fresnos Pumping Plant near Brownsville | 08474130 | N/A | SC | 1945-46 |
| 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, 2002

# 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 45 gaging stations; stage only at 2 gaging stations; stage and contents at 23 lakes and reservoirs; and water quality at 27 gaging stations. Also included are data for 2 partial-record stations comprised of 1 flood-hydrograph and 1 crest-stage stations. 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-02-2." 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 2002 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; Orange County; 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 State Department of Highways & Public Transportations; Texas Natural Resources Conservation Commission; Titus County Fresh Water Supply District No. 1; Trinity River Authority; Upper Colorado 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.

## HYDROLOGIC CONDITIONS

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 2002.

Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,481,000 acre-feet, increased from 76 percent at the end of September 2001 to 77 percent at the end of September 2002. Records from these reservoirs indicate that storage increased in 34, decreased in 39, and remained the same in 4.

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

In the area covered in volume 2, streamflow averaged normal during water year 2002. Streamflow for water year 2002 and for the period of record at two selected stations (fig. 1) for which data are included in volume 2 is presented in table 1.

At the four long-term hydrologic index stations in the State, monthly mean streamflow during water year 2002 averaged normal. Monthly mean discharges for water year 2002 and the median of the long-term monthly means for water years 1961–90 for the four long-term hydrologic index stations in the State are shown in figure 2. Streamflow at the hydrologic index station Neches River near Rockland was normal during November, February, March and June through September, above normal during October, December, January, and April, and below normal during May. The station North Bosque River near Clifton had normal streamflow April through June and August, above normal streamflow during November

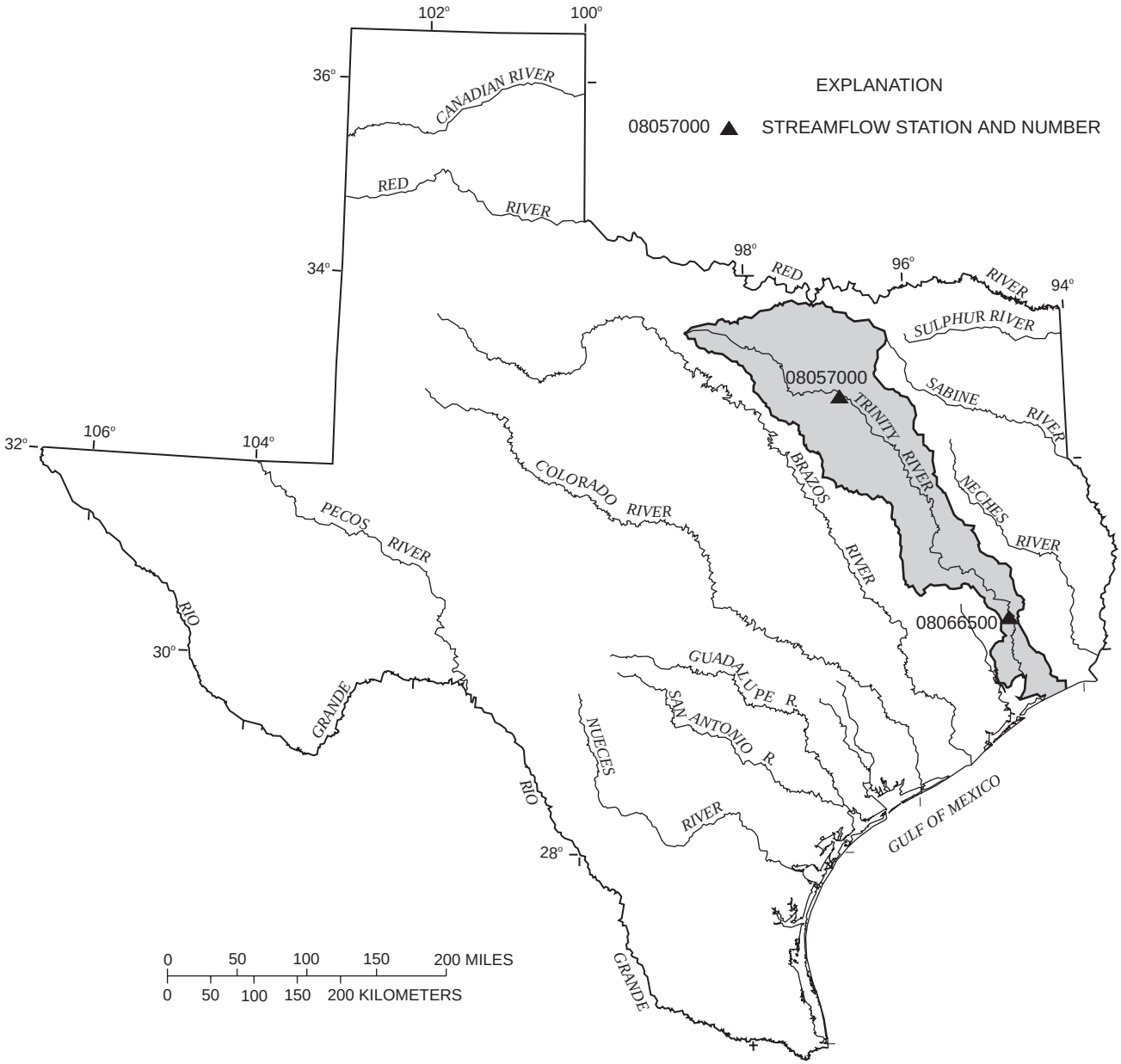
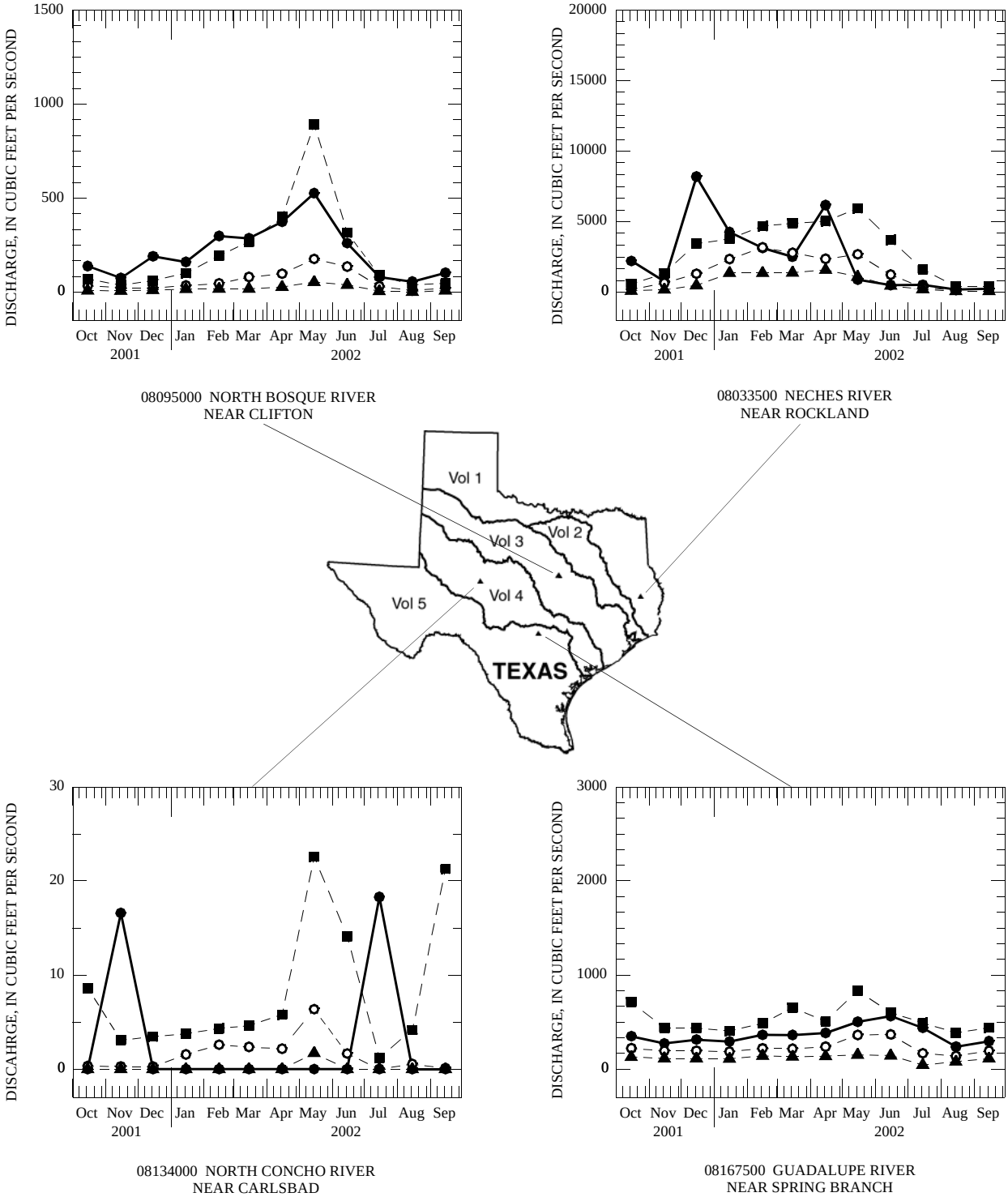



**Figure 1.** Area of Texas covered by volume 2 (shaded) and location of selected streamflow stations in volume 2.




**EXPLANATION**

—●— **MONTHLY MEAN DISCHARGE FOR 2002 WATER YEAR**

– – –o– – – **MEDIAN OF MONTHLY MEAN DISCHARGE FOR 1961–90 WATER YEARS**

– – –▲– – – **25 PERCENT QUARTILE**

– – –■– – – **75 PERCENT QUARTILE**

**Figure 2.** Monthly mean discharges at four long-term hydrologic index stations during 2002 water year and median of the monthly mean discharges for 1961–90 water years.

through March and July, and below normal streamflow in September. The station North Concho River near Carlsbad had normal streamflow for October, December through April, June, August, and September, above normal streamflow during November and July, and below normal streamflow in May. Streamflow for the station Guadalupe River near Spring Branch was normal during October, February through June and September, above normal for November through January, July, and August of water year 2002.

Conservation storage in 14 selected reservoirs in this area of the State, with a total combined conservation capacity of 6,816,000 acre-feet, remained at 93 percent of capacity from the end of September 2001 to the end of September 2002. Records from these reservoirs indicate that storage increased in 7 and decreased in 7.

### 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 2002 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 |
| Trinity River Basin | | | | | | | |
| 08057000 | Trinity River at Dallas, TX | 32,400 | 433 | 2,072 | 111,000 | 10 | 1,826 (1931-2002) |
| 08066500 | Trinity River at Romayor, TX | 40,500 | 1,160 | 8,193 | 122,000 | 104 | 7,867 (1924-2002) |

## SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these 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 can be found at *http://water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) monitors 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 basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia 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 Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides 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 a network of 225 precipitation chemistry monitoring 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 all data from the individual sites, can be found at *http://bqs.usgs.gov/acidrain/*.

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

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

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

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

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

## EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain stage and streamflow data, stage and content data for lakes and reservoirs, and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

### Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

#### Downstream Order Numbering

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 08057000, which appears just to the left of the station name, includes the 2-digit Part number "08" plus the 6-digit downstream-order number "057000." The Part number designates the major river basin; for example, Part "08" is the Western Gulf of Mexico basin.

### Records of Stage and Water Discharge

Records of stage and streamflow may be complete or partial. Complete records of discharge are those obtained using a stage-recording device through which either instantaneous or daily mean discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated for any time, or period of time. They may be obtained using a stage-recording device, but need not be. Because daily-mean discharges and daily-mean reservoir contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Flood-hydrograph partial records, "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow channel gain and loss studies, may be considered as partial records, but they are presented separately in this report. Instantaneous peak discharges are presented for all but the low-flow partial-record stations.

#### Data Collection and Computation

The data obtained at a complete record gaging station on a stream or canal consist of records of stage (that is recorded every 5, 15, 30, or 60 minutes), measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relation between stage and discharge. These data, together with supplemental information such as weather records, are used to compute daily mean discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relation between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute lake storage.

Records of stage are obtained with recorders at selected time intervals. Measurements of discharge are made with current meters and indirect procedures using methods adopted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, TWRI, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves then are constructed. From these curves, rating tables indicating the discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves can be extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques. Stage-discharge ratings at gaging stations are described in TWRI, Book 3, Chapter A10.

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

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

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relation of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes are determined. If the stage-content relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation. Even when this is done, the contents computed may increase in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relations much as other stream discharges are computed.

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

## Data Presentation

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

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

### Station Manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River 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 indicates the period for which there are published records 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 records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years which the revisions apply to. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level, 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 record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

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

Data table of daily mean values

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

Statistics of monthly mean data

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

Summary statistics

A table titled “SUMMARY STATISTICS” follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, “WATER YEARS ____-____,” will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. However, data for partial water years, if any, will only be used in the statistical calculations, if appropriate. For example, 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 column heading. When this occurs, it should be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data is omitted if there is extensive regulation or diversion of flow in the drainage basin.

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

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

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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 SEVEN-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 discharge occurring for the water year or for the 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 stage occurring for the water year or for the designated period. Occasionally the meximum stage for a year may occur at midnight at the beginning or end of 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 for 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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

### Identifying Estimated Daily Discharge

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

### Accuracy of the Records

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

The accuracy attributed to the records is indicated under “REMARKS.” “Excellent” means that about 95 percent of the daily discharges are within 5 percent of their true values; “good,” within 10 percent; and “fair,” within 15 percent.

Records that do not meet the criteria mentioned are rated “poor.” Different accuracies may be attributed to different parts of a given record.

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

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square 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 Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables, is on file in the Texas District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

## Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications.

A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be 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 continuing or partial-record station where random 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 “continuing records”, as used in this report, and “continuous recordings,” which refers to a continuous graph or a series of discrete values obtained by data logger. 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.

### Arrangement of Records

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

### On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Records of surface-water quality at some National Water Quality Accounting (NAWQA) Sites include data collected by different government agencies as identified in the water-quality data tables under AGENCY COLLECTING SAMPLE (CODE NUMBER). Values for this code are given below:

1028 - U.S. Geological Survey
84823 - International Boundary & Water Commission

Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on “Techniques of Water-Resources Investigations,” Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. All of these references are listed under “PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS” which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Texas Office of the Central Region Office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (NASQAN) (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector. Information on the method used to collect the sample at National Stream Quality Accounting Network sites is given in the water-quality data tables under SAMPLING METHOD. Values for this code are given below:

10 - Equal Width Increment (EWI)
20 - Equal Discharge Increment (EDI)
25 - Timed Sampling Interval
30 - Single Vertical
40 - Multiple Verticals
50 - Point Sample
60 - Weighted Bottle
70 - Grab Sample (DIP)
90 - Discharge Integrated, Centroid
120 - Velocity Integrated
8010 - Other

Detailed information on sampling methods may be found in the following publications: OFR-90-127 “Guidelines for Col-

lection and Analysis of Water-Quality Samples from Streams in Texas", OFR-94-455 "Field Guide for Collecting and Processing Stream-Water Samples for the National Water-Quality Assessment Program", and OFR-94-539 "U.S. Geological Survey protocol for the collection and processing of surface-water samples for the subsequent determination of inorganic constituents in filtered water". Specific questions pertaining to water-quality sample collection may be directed to the District Water-Quality Specialist in Austin, Texas, or the Regional Water-Quality Specialist in Denver, Colorado.

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.

For chemical-quality stations equipped with water-quality monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly readings beginning at 0100 hours and ending at 2400 hours for the day of record.

### 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 Texas 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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge-weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily 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 were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of 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

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the U.S. Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the U.S. Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Historical and current (2001) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

### 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, radio-chemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

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

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

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

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. These 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 U.S. Geological Survey by a cooperating organization are identified here.

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently 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.

**Remarks Codes**

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

| Printed Output | Remark Code |
|---|---|
| e or E | Estimated value |
| > | Actual value is known to be greater than the value shown |
| < | Actual value is known to be less than the value shown |
| V | Analyte was detected in both the environmental sample and the associated blanks |
| M | Presence of material verified but not quantified |

| Printed Output | Value-Qualifier Code |
|---|---|
| d | Diluted sample: method hi range exceeded |
| v | Analyte detected in laboratory blank |
| q | Insufficient sample received |
| i | Result may be affected by interference |
| b | Value was extrapolated below |
| n | Below the NVD |
| r | Value verified by rerun, same method |
| p | Value reported is preferred |
| c | See laboratory coment |
| e | See field comment |
| k | Counts outside the acceptable range |

| Printed Output | Null Value-Qualifier Code |
|---|---|
| e | Required equipment not functional or available |
| i | Required sample type not received |
| r | Sample ruined in preparation |
| u | Unable to determine - matrix interference |

Dissolved Trace-Element Concentrations

***NOTE**:--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contami-

nation introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

***NOTE**:--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873).

## Water-Quality Control Data

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

### Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the 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. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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 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.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

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 sample preservatives used for an environmental sample.

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

### Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can 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. There are many types

of replicate samples 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 sample – a type of replicate sample in which the samples are collected simultaneoulsy with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample – a type of replicate sample in which the samples 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 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.

Concurrent sample – a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample – a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

## ACCESS TO USGS WATER DATA

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

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

## DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

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

**Acre-foot** (AC-FT, acre-ft) is 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.

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

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

**Bedload** is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that 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")

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

**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 is also called the Autotrophic Index.

**Blue-green algae** (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**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 lithology and porosity of the rock.

**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 are generally reported as cells or units per milliliter (mL) or liter (L).

**Cells volume** (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume ($\mu m^3$) 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:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^2 h$ cylinder $\pi r^2 h$.

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

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) 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.

**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 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, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically 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, $(ft^3/s)/mi^2$] 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 concentration of suspended sediment passing 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 periodic sample or 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 are usually 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 UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

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

**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, etc., 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. Determinations 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 0.4926 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** are commonly 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 feacalis*, *Streptococcus feacium*, *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 are generally 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) concentration value** 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 qualitatively identified 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 (<).

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

**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 itself is not an actual physical object, the datum usually is 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** have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**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 are typically 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:

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

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

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

**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) is generally 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. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

**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, $\lambda$ 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.

**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 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.

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

**Micrograms per gram** (UG/G, µg/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, µg/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, µg/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, µS/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 of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly 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.

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

**North American Vertical Datum of 1988** (NAVD 1988) 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 ($m^2$), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

**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 utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

**Picocurie** (PC, pCi) is one trillionth ($1 \times 10^{-12}$) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields $3.7 \times 10^{10}$ 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 [mg C/($m^2$/time)] for periphyton and macrophytes or per volume [mg C/($m^3$/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 [mg O/($m^2$/time)] for periphyton and macrophytes or per volume [mg O/($m^3$/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 from bed (bottom) material** is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also “Bed material”)

**Recurrence interval,** also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or 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”)

**Sea level,** as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988).

**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 pre-cipitation.

**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 electrical 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 (<2mm, 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.

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

**Suspended, recoverable** is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of “suspended, recoverable” constituents are made either by directly analyzing the suspended mate-rial collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also “Suspended”)

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

($ft^3/s$) 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, 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")

**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.

**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 hierarchial 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: | *Hexagenia* |
| Species: | *Hexagenia limbata* |

**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 tons 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 warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 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 the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

**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 substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength 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")

**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 are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

**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."

**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")

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Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at http://water.usgs.gov/pubs/twri/. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superintendent of Documents, Government Printing Office). Please telephone "1-888-ASK-USGS" for current prices, and refer to the title, book number, section number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Other products can be viewed online at http://www.usgs.gov/sales.html, or ordered by telephone or by FAX to (303)236-4693. Order forms for FAX requests are available online at *http://mac.usgs.gov/isb/pubs/forms/*. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

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3–B4. *Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

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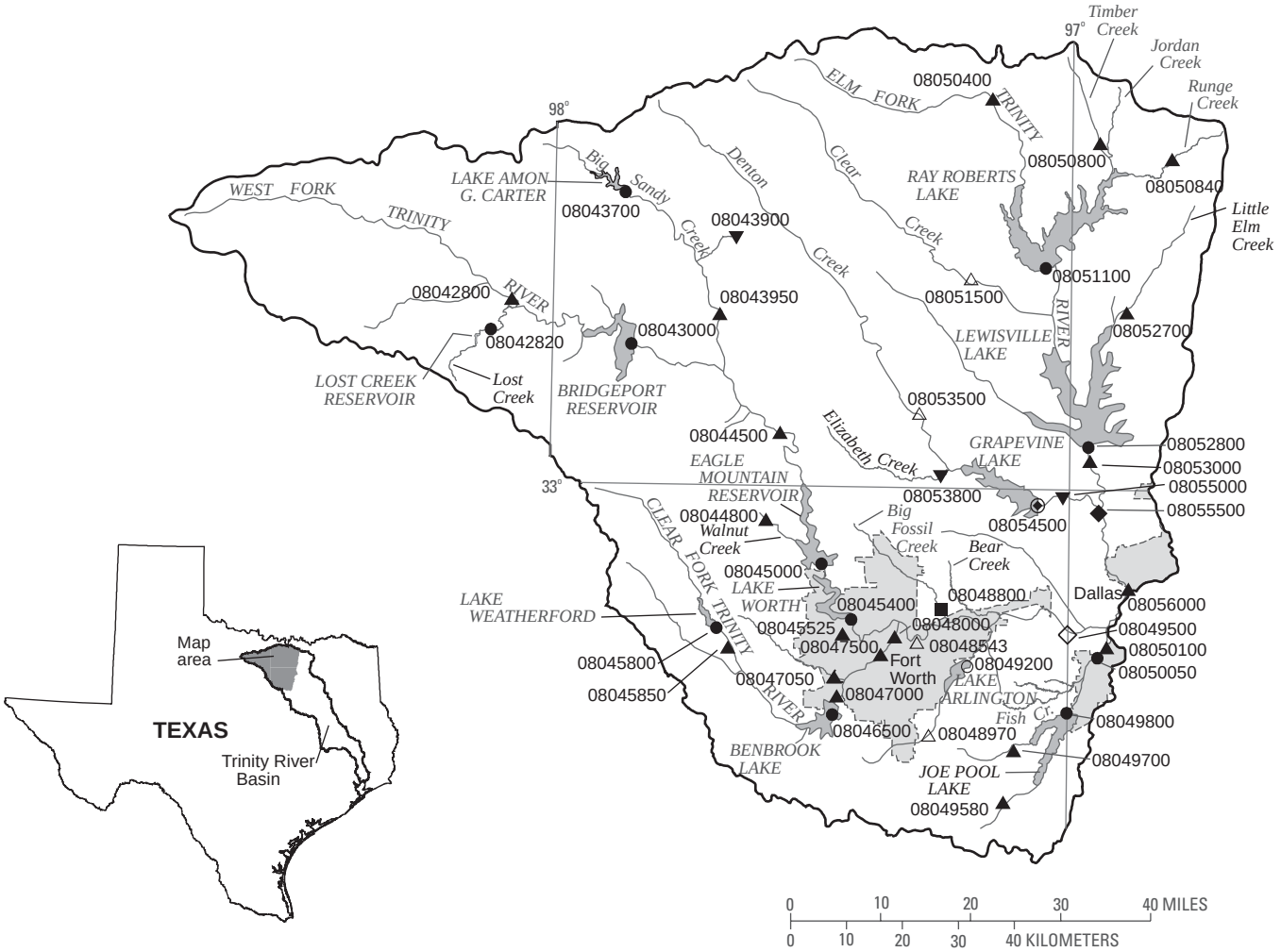



**EXPLANATION**

| | | |
|---|---|---|
| 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** |
| 08048800 | ■ | **Surface-water partial record/stage only station and number** |
| 08049500 | ◇ | **Precipitation/water-quality station and number** |
| 08055500 | ◆ | **SW Continuous/precipitation station and number** |
| 08054500 | ◉ | **Reservoir/precipitation station and number** |

Figure 3.--Map showing location of gaging stations in the first section 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 . . . . . 42
08043900 Lyndon B. Johnson National Grasslands near Alvord, TX . . . . . 44
08043950 Big Sandy Creek near Chico, TX . . . . . 46
08044500 West Fork Trinity River near Boyd, TX . . . . . 48
08044800 Walnut Creek at Reno, TX . . . . . 50
08045000 Eagle Mountain Reservoir above Fort Worth, TX . . . . . 52
08045400 Lake Worth above Fort Worth, TX . . . . . 54
08045525 Farmers Branch at Westworth Village, TX . . . . . 56
08045800 Lake Weatherford near Weatherford, TX . . . . . 58
08045850 Clear Fork Trinity River near Weatherford, TX . . . . . 60
08046500 Benbrook Lake near Benbrook, TX . . . . . 62
08047000 Clear Fork Trinity River near Benbrook, TX . . . . . 66
08047050 Mary’s Creek at Benbrook, TX . . . . . 68
08047500 Clear Fork Trinity River at Fort Worth, TX . . . . . 70
08048000 West Fork Trinity River at Fort Worth, TX . . . . . 72
08048543 West Fork Trinity River at Beach Street, Fort Worth, TX . . . . . 74
08048800 Big Fossil Creek at Haltom City, TX . . . . . 363
08048970 Village Creek at Everman, TX . . . . . 84
08049200 Lake Arlington at Arlington, TX . . . . . 88
08049500 West Fork Trinity River at Grand Prairie, TX . . . . . 94
08049580 Mountain Creek near Venus, TX . . . . . 108
08049700 Walnut Creek near Mansfield, TX . . . . . 110
08049800 Joe Pool Lake near Duncanville, TX . . . . . 112
08050050 Mountain Creek Lake near Grand Prairie, TX . . . . . 114
08050100 Mountain Creek at Grand Prairie, TX . . . . . 116
08050400 Elm Fork Trinity River at Gainesville, TX . . . . . 118
08050800 Timber Creek near Collinsville, TX . . . . . 120
08050840 Range Creek near Collinsville, TX . . . . . 122
08051100 Ray Roberts Lake near Pilot Point, TX . . . . . 124
08051500 Clear Creek near Sanger, TX . . . . . 126
08052700 Little Elm Creek near Aubrey, TX . . . . . 132
08052800 Lewisville Lake near Lewisville, TX . . . . . 134
08053000 Elm Fork Trinity River near Lewisville, TX . . . . . 136
08053500 Denton Creek near Justin, TX . . . . . 138
08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX . . . . . 142
08054500 Grapevine Lake near Grapevine, TX . . . . . 144
08055000 Denton Creek near Grapevine, TX . . . . . 156
08055500 Elm Fork Trinity River near Carrollton, TX . . . . . 158
08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX . . . . . 162

## 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 $mi^2$.

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 fair except those for estimated daily discharges, which are poor. Since 1974, at least 10% of contributing drainage area has been affected by discharge from the flood-detention pools of 21 floodwater-retarding structures. These structures control runoff from 70.9 $mi^2$ in the West Fork Trinity River drainage basin upstream from this station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--18 years (water years 1956-73), 104 $ft^3/s$ (75,350 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1956-73).--Maximum discharge, 35,100 $ft^3/s$, Apr. 27, 1957, gage height, 32.10 ft; no flow at times.

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

DISCHARGE FROM THE DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.03 | 0.00 | 0.36 | 0.00 | 0.34 | 29 | 0.90 | 0.00 | 0.22 | 0.00 | 0.00 |
| 2 | 0.00 | 0.01 | 0.00 | 0.44 | 0.00 | 0.32 | 13 | 0.75 | 0.00 | 0.20 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.29 | 5.7 | 1.4 | 0.00 | 0.56 | 0.41 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.41 | 0.00 | 0.23 | 5.9 | 3.0 | 0.00 | 0.72 | 1.0 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.56 | 0.21 | 0.08 | 4.7 | 4.6 | 57 | e0.69 | 0.95 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 0.78 | 0.80 | 0.05 | 4.0 | 3.2 | 110 | e2.8 | 0.73 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 19 | 0.61 | 0.04 | 20 | 2.8 | 101 | 33 | 0.41 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 0.31 | 0.49 | 0.03 | 179 | 2.4 | 86 | 29 | 0.23 | 0.00 |
| 9 | 0.00 | 0.00 | 0.05 | 0.22 | 0.47 | 0.02 | 196 | 1.9 | 34 | 18 | 0.09 | 0.00 |
| 10 | 0.00 | 0.00 | 6.2 | 0.16 | 0.65 | 0.15 | 136 | 80 | 13 | 9.6 | 0.04 | 0.00 |
| 11 | 8.8 | 0.00 | 0.00 | 0.09 | 0.74 | 0.00 | 83 | 124 | 5.2 | 3.6 | 0.04 | 0.00 |
| 12 | 3.8 | 0.00 | 0.00 | 0.47 | 0.71 | 0.00 | 43 | 14 | 2.6 | 1.9 | 0.03 | 0.00 |
| 13 | 3.8 | 0.00 | 0.00 | 2.1 | 0.44 | 0.00 | 25 | 4.3 | 1.9 | 1.9 | 0.00 | 0.00 |
| 14 | 15 | 0.00 | 0.00 | 0.06 | 0.56 | 0.00 | 113 | 5.4 | 2.5 | 1.2 | 0.00 | 0.00 |
| 15 | 94 | 0.00 | 0.00 | 0.58 | 0.33 | 0.00 | 249 | 1.5 | 1.1 | 5.3 | 0.00 | 0.00 |
| 16 | 24 | 0.00 | 3.2 | 0.02 | 0.51 | 0.00 | 134 | 0.73 | 6.9 | 4.3 | 0.00 | 0.00 |
| 17 | 6.0 | 0.00 | 9.5 | 0.0 | 0.24 | 0.00 | 59 | 0.61 | 11 | 1.6 | 0.00 | 0.00 |
| 18 | 2.7 | 0.00 | 2.4 | 0.00 | 0.13 | 0.00 | 22 | 0.25 | 9.9 | 7.6 | 0.00 | 0.00 |
| 19 | 1.6 | 0.00 | 2.3 | 0.00 | 0.58 | 8.0 | 8.1 | 0.05 | 51 | 11 | 0.00 | 0.00 |
| 20 | 1.4 | 0.00 | 2.7 | 0.00 | 0.88 | 74 | 4.2 | 0.00 | 28 | 2.9 | 0.00 | 0.00 |
| 21 | 1.2 | 0.00 | 2.2 | 0.10 | 0.89 | 45 | 2.5 | 0.00 | 10 | 1.3 | 0.00 | 0.00 |
| 22 | 1.1 | 0.00 | 1.6 | 0.00 | 0.82 | 17 | 1.7 | 0.00 | 3.8 | 0.95 | 0.00 | 0.00 |
| 23 | 1.2 | 0.00 | 4.5 | 0.00 | 0.73 | 26 | 1.4 | 0.00 | 1.8 | 0.54 | 0.00 | 0.00 |
| 24 | 1.0 | 0.00 | 18 | 0.00 | 0.67 | 13 | 1.3 | 0.00 | 1.1 | 0.35 | 0.00 | 0.00 |
| 25 | 0.84 | 0.00 | 8.2 | 0.64 | 0.59 | 7.9 | 1.1 | 0.00 | 0.92 | 0.48 | 0.00 | 0.00 |
| 26 | 0.59 | 0.00 | 0.97 | 0.31 | 0.63 | 4.7 | 0.94 | 0.00 | 0.64 | 0.14 | 0.00 | 0.00 |
| 27 | 0.40 | 0.00 | 5.3 | 0.00 | 0.81 | 3.2 | 0.85 | 0.00 | 0.48 | 0.07 | 0.00 | 0.00 |
| 28 | 0.30 | 0.00 | 0.70 | 0.00 | 0.40 | 2.9 | 0.80 | 0.21 | 0.31 | 0.02 | 0.00 | 0.00 |
| 29 | 0.19 | 0.00 | 0.58 | 0.00 | --- | 2.6 | 0.89 | 0.06 | 0.16 | 0.02 | 0.00 | 0.00 |
| 30 | 0.09 | 0.00 | 0.53 | 0.00 | --- | 2.9 | 1.5 | 0.00 | 0.13 | 0.01 | 0.00 | 0.00 |
| 31 | 0.05 | --- | 0.45 | 0.00 | --- | 7.1 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 168.06 | 0.04 | 69.38 | 27.02 | 13.89 | 215.85 | 1346.58 | 252.06 | 540.44 | 139.97 | 3.93 | 0.00 |
| MEAN | 5.421 | 0.001 | 2.238 | 0.872 | 0.496 | 6.963 | 44.89 | 8.131 | 18.01 | 4.515 | 0.127 | 0.000 |
| MAX | 94 | 0.03 | 18 | 19 | 0.89 | 74 | 249 | 124 | 110 | 33 | 1.0 | 0.00 |
| MIN | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AC-FT | 333 | 0.08 | 138 | 54 | 28 | 428 | 2670 | 500 | 1070 | 278 | 7.8 | 0.00 |

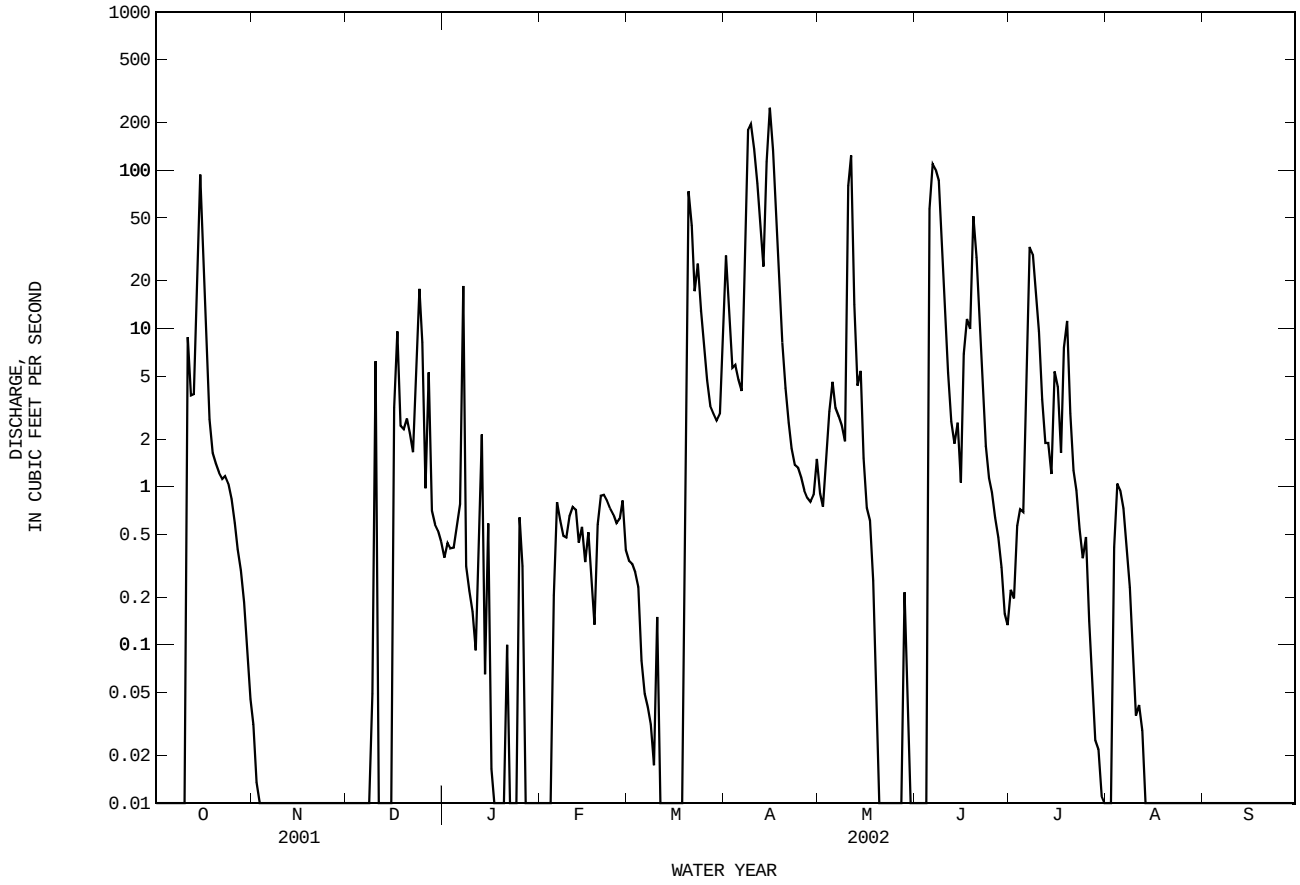
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 136.8 | 41.74 | 59.99 | 33.01 | 103.5 | 127.3 | 125.5 | 351.2 | 240.3 | 26.47 | 16.23 | 42.99 |
| MAX | 2363 | 219 | 1025 | 369 | 1049 | 697 | 2383 | 3127 | 1689 | 251 | 134 | 332 |
| (WY) | 1982 | 1975 | 1992 | 1985 | 1997 | 1990 | 1990 | 1989 | 1989 | 1975 | 1989 | 1996 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1980 | 1984 | 1984 | 1978 | 1980 | 1982 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1974 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 41782.19 | | 2777.22 | | | |
| ANNUAL MEAN | 114.5 | | 7.609 | | 108.7 | |
| HIGHEST ANNUAL MEAN | | | | | 468 | 1990 |
| LOWEST ANNUAL MEAN | | | | | 0.072 | 1984 |
| HIGHEST DAILY MEAN | 5060 | Feb 17 | 249 | Apr 15 | 29100 | May 17 1989 |
| LOWEST DAILY MEAN | 0.00 | Jul 8 | 0.00 | Oct 1 | 0.00 | Apr 6 1974 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jul 8 | 0.00 | Oct 1 | 0.00 | Apr 12 1974 |
| MAXIMUM PEAK FLOW | | | 279 | May 10 | 33300 | May 17 1989 |
| MAXIMUM PEAK STAGE | | | 7.65 | May 10 | 31.52 | May 17 1989 |
| ANNUAL RUNOFF (AC-FT) | 82870 | | 5510 | | 78780 | |
| 10 PERCENT EXCEEDS | 199 | | 13 | | 138 | |
| 50 PERCENT EXCEEDS | 2.5 | | 0.30 | | 0.90 | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | | 0.00 | |

e Estimated
z Period of regulated streamflow.

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 $mi^2$.

PERIOD OF RECORD.--Mar. 1999 to current year.

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

REMARKS.--No estimated daily contents. 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. Conservation pool storage is 11,960 acre-ft. Data regarding the dam is given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 1028.0 |
| Crest of spillway | 1009.0 |
| Crest of emergency spillway | 1016.0 |
| Lowest gated outlet (invert) | 947.0 |

COOPERATION.--Capacity table was furnished by the Texas Water Development Board.

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.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,900 acre-ft, June 16, 17, 18, elevation, 1,006.88 ft; minimum contents, 10,070 acre-ft, Mar. 17, 18, elevation, 1,004.66 ft.

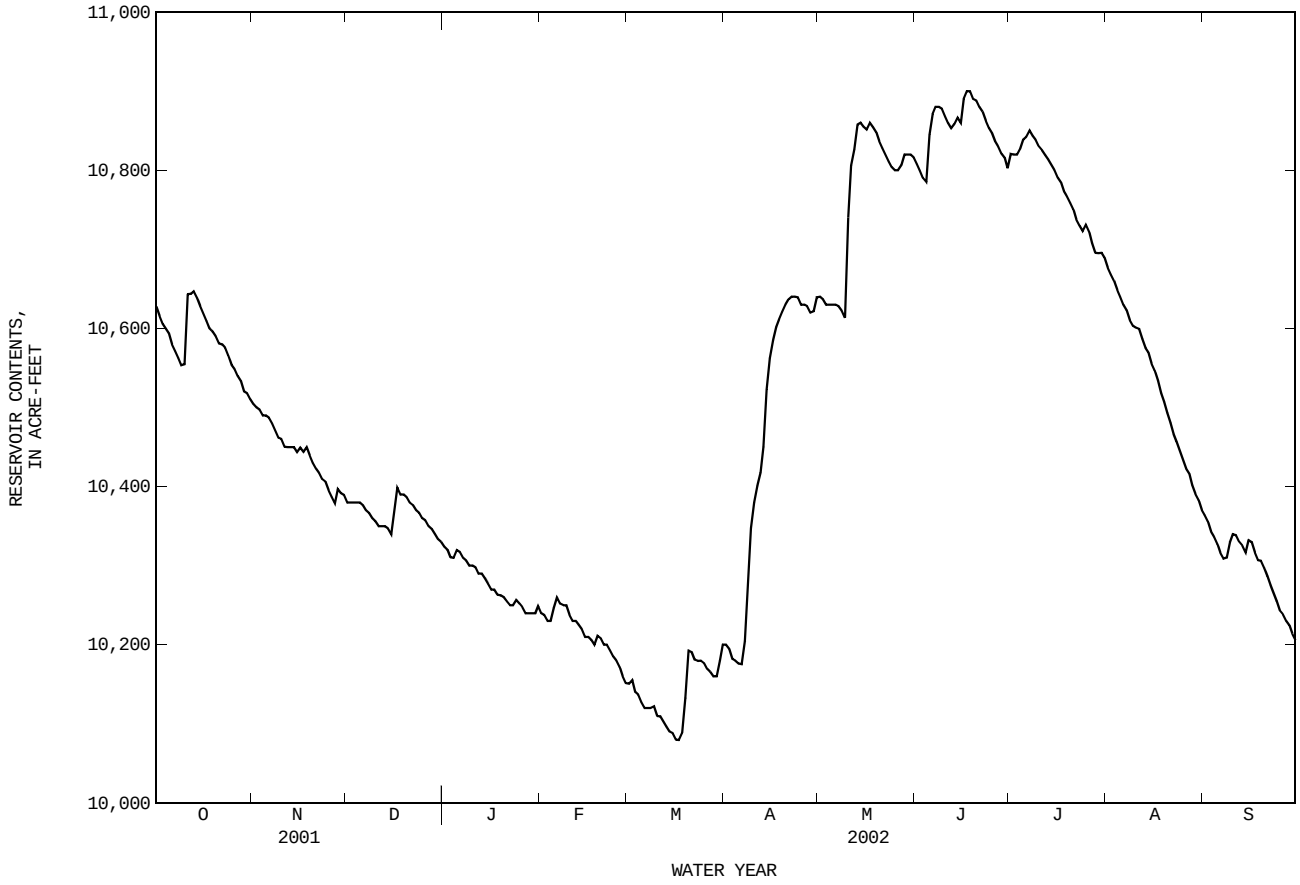
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10630 | 10500 | 10380 | 10320 | 10240 | 10150 | 10200 | 10640 | 10810 | 10820 | 10680 | 10360 |
| 2 | 10620 | 10500 | 10380 | 10320 | 10240 | 10160 | 10190 | 10640 | 10800 | 10820 | 10670 | 10360 |
| 3 | 10610 | 10500 | 10380 | 10310 | 10230 | 10140 | 10180 | 10630 | 10790 | 10820 | 10660 | 10340 |
| 4 | 10600 | 10490 | 10380 | 10310 | 10230 | 10140 | 10180 | 10630 | 10780 | 10830 | 10650 | 10340 |
| 5 | 10590 | 10490 | 10380 | 10320 | 10250 | 10130 | 10180 | 10630 | 10840 | 10840 | 10640 | 10330 |
| 6 | 10580 | 10490 | 10380 | 10320 | 10260 | 10120 | 10180 | 10630 | 10870 | 10840 | 10630 | 10320 |
| 7 | 10570 | 10480 | 10370 | 10310 | 10250 | 10120 | 10200 | 10630 | 10880 | 10850 | 10620 | 10310 |
| 8 | 10560 | 10470 | 10370 | 10310 | 10250 | 10120 | 10290 | 10620 | 10880 | 10840 | 10610 | 10310 |
| 9 | 10550 | 10460 | 10360 | 10300 | 10250 | 10120 | 10350 | 10610 | 10880 | 10840 | 10600 | 10330 |
| 10 | 10550 | 10460 | 10360 | 10300 | 10240 | 10110 | 10380 | 10740 | 10870 | 10830 | 10600 | 10340 |
| 11 | 10640 | 10450 | 10350 | 10300 | 10230 | 10110 | 10400 | 10810 | 10860 | 10830 | 10600 | 10340 |
| 12 | 10640 | 10450 | 10350 | 10290 | 10230 | 10100 | 10420 | 10830 | 10850 | 10820 | 10590 | 10330 |
| 13 | 10650 | 10450 | 10350 | 10290 | 10230 | 10100 | 10450 | 10860 | 10860 | 10810 | 10580 | 10330 |
| 14 | 10640 | 10450 | 10350 | 10280 | 10220 | 10090 | 10520 | 10860 | 10870 | 10810 | 10570 | 10320 |
| 15 | 10630 | 10440 | 10340 | 10280 | 10210 | 10090 | 10560 | 10860 | 10860 | 10800 | 10560 | 10330 |
| 16 | 10620 | 10450 | 10370 | 10270 | 10210 | 10080 | 10580 | 10850 | 10890 | 10790 | 10550 | 10330 |
| 17 | 10610 | 10440 | 10400 | 10270 | 10210 | 10080 | 10600 | 10860 | 10900 | 10780 | 10530 | 10320 |
| 18 | 10600 | 10450 | 10390 | 10260 | 10200 | 10090 | 10610 | 10850 | 10900 | 10770 | 10520 | 10310 |
| 19 | 10600 | 10440 | 10390 | 10260 | 10210 | 10130 | 10620 | 10850 | 10890 | 10770 | 10510 | 10310 |
| 20 | 10590 | 10430 | 10390 | 10260 | 10210 | 10190 | 10630 | 10840 | 10890 | 10760 | 10490 | 10300 |
| 21 | 10580 | 10420 | 10380 | 10250 | 10200 | 10190 | 10640 | 10830 | 10880 | 10750 | 10480 | 10290 |
| 22 | 10580 | 10420 | 10380 | 10250 | 10200 | 10180 | 10640 | 10820 | 10870 | 10740 | 10470 | 10270 |
| 23 | 10580 | 10410 | 10370 | 10250 | 10190 | 10180 | 10640 | 10810 | 10860 | 10730 | 10460 | 10260 |
| 24 | 10570 | 10410 | 10370 | 10260 | 10190 | 10180 | 10640 | 10800 | 10850 | 10720 | 10450 | 10260 |
| 25 | 10550 | 10400 | 10360 | 10250 | 10180 | 10180 | 10630 | 10800 | 10850 | 10730 | 10430 | 10240 |
| 26 | 10550 | 10390 | 10360 | 10250 | 10170 | 10170 | 10630 | 10800 | 10840 | 10720 | 10420 | 10240 |
| 27 | 10540 | 10380 | 10350 | 10240 | 10160 | 10170 | 10630 | 10810 | 10830 | 10710 | 10420 | 10230 |
| 28 | 10530 | 10400 | 10350 | 10240 | 10150 | 10160 | 10620 | 10820 | 10820 | 10700 | 10400 | 10220 |
| 29 | 10520 | 10390 | 10340 | 10240 | --- | 10160 | 10620 | 10820 | 10820 | 10700 | 10390 | 10210 |
| 30 | 10520 | 10390 | 10330 | 10240 | --- | 10180 | 10640 | 10820 | 10800 | 10700 | 10380 | 10210 |
| 31 | 10510 | --- | 10330 | 10250 | --- | 10200 | --- | 10820 | --- | 10690 | 10370 | --- |
| MEAN | 10580 | 10440 | 10370 | 10280 | 10220 | 10140 | 10470 | 10770 | 10850 | 10780 | 10530 | 10300 |
| MAX | 10650 | 10500 | 10400 | 10320 | 10260 | 10200 | 10640 | 10860 | 10900 | 10850 | 10680 | 10360 |
| MIN | 10510 | 10380 | 10330 | 10240 | 10150 | 10080 | 10180 | 10610 | 10780 | 10690 | 10370 | 10210 |
| (+) | 1005.83 | 1005.50 | 1005.35 | 1005.14 | 1004.88 | 1004.99 | 1006.17 | 1006.65 | 1006.62 | 1006.31 | 1005.47 | 1005.01 |
| (@) | -120 | -120 | -60 | -80 | -100 | +50 | +440 | +180 | -20 | -110 | -320 | -160 |

CAL YR 2001 MAX 13040 MIN 9130 (@) +1220
WTR YR 2002 MAX 10900 MIN 10080 (@) -420

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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 $mi^2$.

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.--Records fair except those for estimated daily contents, which are poor. 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 2001 WY YEAR.--Maximum contents, 383,700 acre-ft, Apr. 11, elevation, 836.68 ft; minimum contents, 169,400 acre-ft, Oct. 20, elevation, 816.09 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 313,400 acre-ft, June 8, 9, 10, elevation, 830.98 ft; minimum contents, 278,600 acre-ft, Mar. 17, elevation, 827.86 ft.

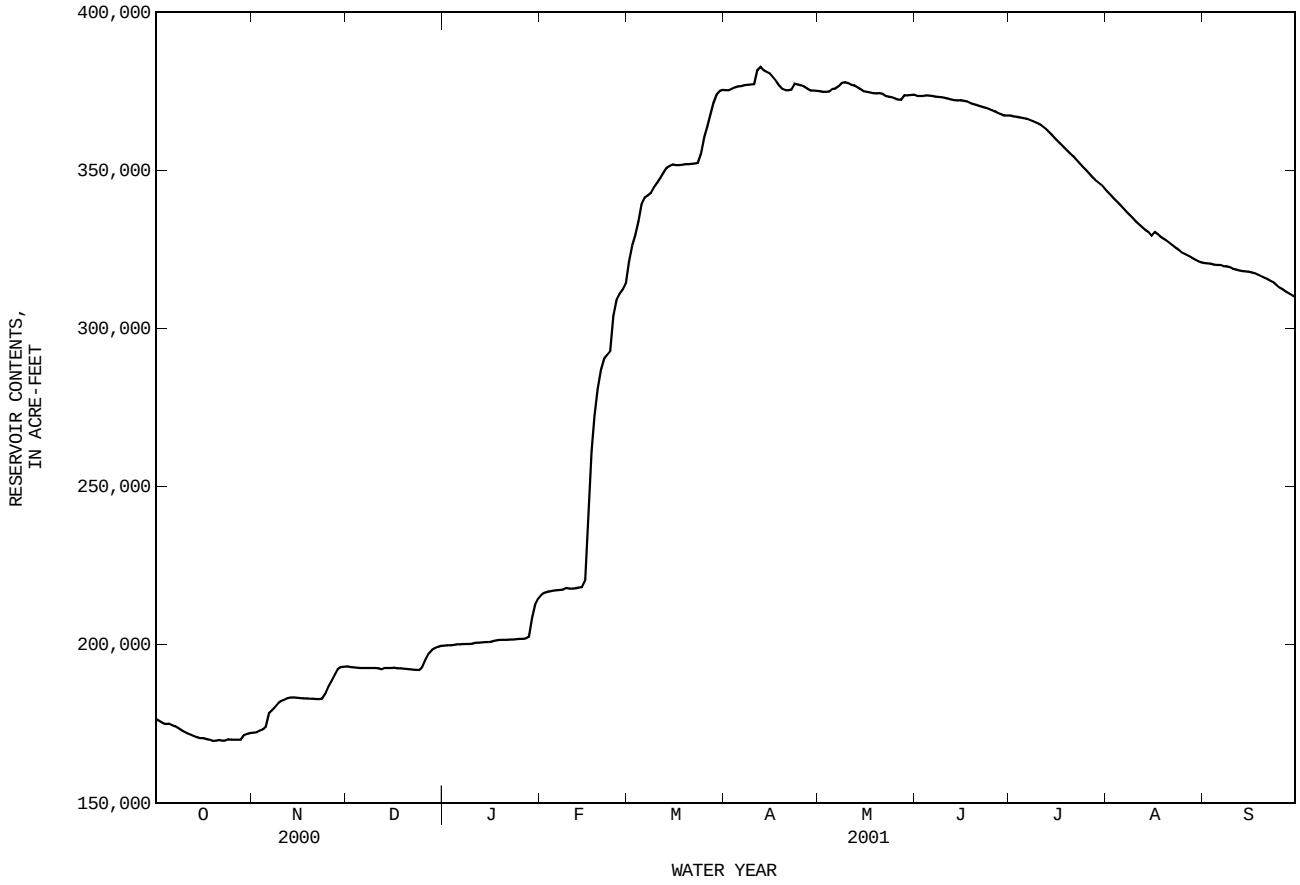
RESERVOIR STORAGE FROM DCP/EDL, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 176500 | 172300 | 193100 | 199700 | 215800 | 321200 | 375300 | 375000 | 373500 | 367200 | 343100 | 320700 |
| 2 | 175900 | 172300 | 193000 | 199800 | 216400 | 326300 | 375300 | 374800 | 373400 | 367000 | 342100 | 320500 |
| 3 | 175200 | 172800 | 192900 | 199800 | 216700 | 329300 | 375800 | 374800 | 373400 | 366900 | 341000 | 320400 |
| 4 | 175000 | 173200 | 192700 | 199900 | 217000 | 333600 | 376200 | 374900 | 373600 | 366700 | 340000 | 320200 |
| 5 | 175000 | 174200 | 192700 | 200100 | 217100 | 339100 | 376500 | 375700 | 373600 | 366500 | 339000 | 320000 |
| 6 | 174600 | 178400 | 192700 | 200200 | 217200 | 341200 | 376600 | 375800 | 373500 | 366200 | 338000 | 320000 |
| 7 | 174200 | 179400 | 192700 | 200200 | 217300 | 342000 | 376900 | 376500 | 373300 | 365900 | 336900 | 319700 |
| 8 | 173600 | 180400 | 192700 | 200200 | 217500 | 342700 | 377000 | 377600 | 373100 | 365500 | 335900 | 319600 |
| 9 | 173000 | 181600 | 192600 | 200200 | 217900 | 344600 | 377100 | 377900 | 373100 | 365100 | 334800 | 319300 |
| 10 | 172500 | 182200 | 192700 | 200400 | 217800 | 345900 | 377200 | 377500 | 372900 | 364700 | 333800 | 318800 |
| 11 | 171900 | 182600 | 192600 | 200700 | 217800 | 347500 | 381700 | 377000 | 372700 | 364000 | 332900 | 318600 |
| 12 | 171500 | 183200 | 192300 | 200700 | 217800 | 349200 | 382600 | 376800 | 372400 | 363200 | 332000 | 318400 |
| 13 | 171100 | 183400 | 192600 | 200800 | 218000 | 350600 | 381600 | 376200 | 372100 | 362400 | 331100 | 318200 |
| 14 | 170800 | 183400 | 192700 | 200900 | 218300 | 351300 | 381100 | 375600 | 372000 | 361300 | 330400 | 318000 |
| 15 | 170500 | 183200 | 192700 | 200900 | 220300 | 351800 | 380500 | 375000 | 372200 | 360200 | 329300 | 317900 |
| 16 | 170500 | 183200 | 192700 | 201000 | 244100 | 351600 | 379400 | 374700 | 371900 | 359200 | 330500 | 317800 |
| 17 | 170200 | 183100 | 192600 | 201200 | 261300 | 351600 | 378100 | 374600 | 371700 | 358200 | 329800 | 317400 |
| 18 | 169900 | 183000 | 192500 | 201400 | 272300 | 351800 | 376800 | 374400 | 371300 | 357200 | 328800 | 316900 |
| 19 | 169600 | 183000 | 192400 | 201600 | 280900 | 351900 | 375600 | 374300 | 370900 | 356300 | 328200 | e316500 |
| 20 | 169700 | 182900 | 192400 | 201600 | 286700 | 351900 | 375300 | 374400 | 370600 | 355200 | 327600 | 316000 |
| 21 | 169900 | 182800 | 192200 | 201600 | 290300 | 352000 | 375300 | 374200 | 370400 | 354300 | 326800 | 315600 |
| 22 | 169700 | 182800 | 192100 | 201600 | 291500 | 352100 | 375500 | 373500 | 370100 | 353300 | 326000 | 315000 |
| 23 | 169700 | 183000 | 192100 | 201700 | 292800 | 352300 | 377300 | 373200 | 369700 | 352200 | 325300 | 314500 |
| 24 | 170100 | 184400 | 192100 | 201800 | 304000 | 355200 | 377100 | 373000 | 369300 | 351100 | 324600 | 313700 |
| 25 | 170000 | 186800 | 193000 | 201900 | 309000 | 360500 | 376800 | 372600 | 368900 | 350100 | 323800 | 312900 |
| 26 | 170000 | 188600 | 195300 | 201900 | 310900 | 363500 | 376400 | 372400 | 368700 | 349000 | 323200 | 312200 |
| 27 | 170000 | 190600 | 197200 | 202000 | 312200 | 367400 | 375800 | 372300 | 368000 | 348000 | 322800 | 311600 |
| 28 | 170000 | 192300 | 198300 | 202500 | 314200 | 371300 | 375200 | 373700 | 367600 | 347000 | 322300 | 311000 |
| 29 | 171400 | 192900 | 198900 | 208500 | --- | 374000 | 375200 | 373700 | 367300 | 346100 | 321700 | 310400 |
| 30 | 171800 | 193100 | 199300 | 212700 | --- | 375100 | 375100 | 373800 | 367300 | 345300 | 321200 | 309800 |
| 31 | 172100 | --- | 199600 | 214500 | --- | 375400 | --- | 373900 | --- | 344300 | 320800 | --- |
| MEAN | 171800 | 182500 | 193700 | 202000 | 251200 | 350800 | 377200 | 374800 | 371300 | 358100 | 330400 | 316700 |
| MAX | 176500 | 193100 | 199600 | 214500 | 314200 | 375400 | 382600 | 377900 | 373600 | 367200 | 343100 | 320700 |
| MIN | 169600 | 172300 | 192100 | 199700 | 215800 | 321200 | 375100 | 372300 | 367300 | 344300 | 320800 | 309800 |
| (+) | 816.43 | 818.95 | 819.70 | 821.38 | 831.05 | 836.05 | 836.02 | 835.93 | 835.42 | 833.57 | 831.62 | 830.68 |
| (@) | -4700 | +21000 | +6500 | +14900 | +99700 | +61200 | -300 | -1200 | -6600 | -23000 | -23500 | -11000 |

CAL YR 2000 MAX 223300 MIN 169600 (@) -22000
WTR YR 2001 MAX 382600 MIN 169600 (@) +133000

e Estimated
(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08043000 Bridgeport Reservoir above Bridgeport, TX--Continued



08043000 Bridgeport Reservoir above Bridgeport, TX--Continued

RESERVOIR STORAGE FROM DCP/EDL, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

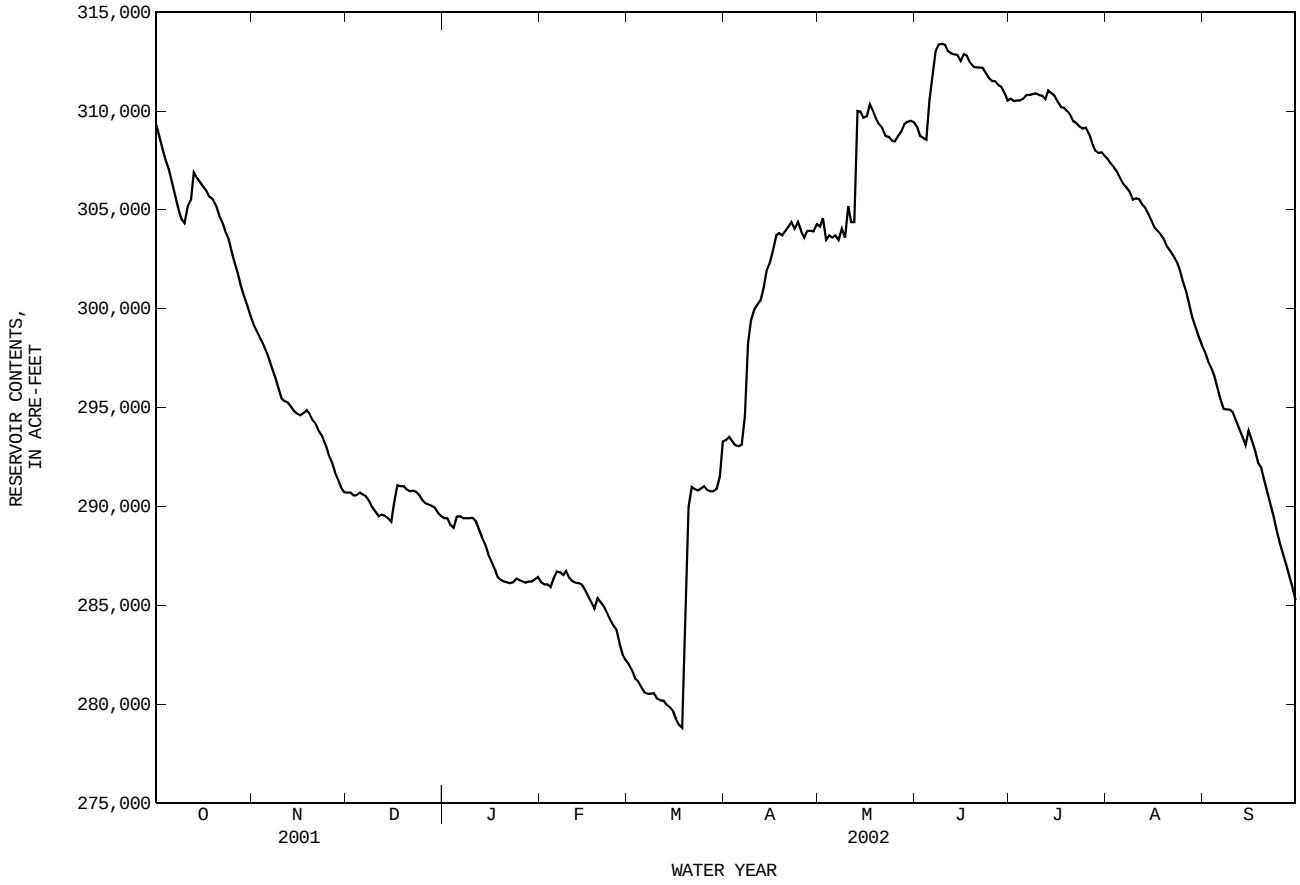
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309300 | 299200 | 290700 | 289400 | 286100 | 282000 | 293300 | e304200 | 309200 | 310600 | 307600 | 297800 |
| 2 | 308700 | 298900 | 290700 | 289400 | 286100 | 281700 | 293500 | e304600 | 308700 | 310500 | 307300 | 297400 |
| 3 | 308000 | 298600 | 290500 | 289100 | 286000 | 281300 | 293300 | e303500 | 308600 | 310500 | 307100 | 297000 |
| 4 | 307500 | 298200 | 290600 | 288900 | 285900 | 281100 | 293100 | e303700 | 308500 | 310500 | 306900 | 296600 |
| 5 | 307000 | 297900 | 290700 | 289500 | 286400 | 280900 | 293000 | e303600 | 310600 | 310600 | 306600 | 296000 |
| 6 | 306300 | 297500 | 290600 | 289500 | 286700 | 280600 | 293100 | e303700 | 311800 | 310800 | 306300 | 295400 |
| 7 | 305700 | 296900 | 290500 | 289400 | 286700 | 280500 | 294600 | e303500 | 313000 | 310800 | 306100 | 294900 |
| 8 | 305000 | 296500 | 290300 | 289400 | 286500 | 280500 | 298300 | e304000 | 313400 | 310900 | 305900 | 294900 |
| 9 | 304500 | 296000 | 290000 | 289400 | 286700 | 280500 | 299400 | e303600 | 313400 | 310900 | 305500 | 294900 |
| 10 | 304300 | 295500 | 289700 | 289400 | 286400 | 280300 | 299900 | e305200 | 313300 | 310800 | 305600 | 294800 |
| 11 | 305200 | 295300 | 289500 | 289300 | 286200 | 280200 | 300200 | e304400 | 313000 | 310800 | 305500 | 294400 |
| 12 | 305500 | 295200 | 289600 | 288900 | 286100 | 280200 | 300400 | e304400 | 312900 | 310600 | 305300 | 294000 |
| 13 | 306900 | 295000 | 289500 | 288500 | 286100 | 280000 | 301000 | e310000 | 312900 | 311000 | 305100 | 293500 |
| 14 | 306600 | 294800 | 289400 | 288100 | 286000 | 279900 | 301900 | 310000 | 312800 | 310900 | 304800 | 293100 |
| 15 | 306400 | 294700 | 289200 | 287600 | 285800 | 279700 | 302300 | 309600 | 312500 | 310800 | 304500 | 293800 |
| 16 | 306200 | 294600 | 290200 | 287200 | 285400 | 279200 | 303000 | 309700 | 312900 | 310500 | 304100 | 293300 |
| 17 | 306000 | 294700 | 291100 | 286900 | 285100 | 279000 | 303700 | 310400 | 312800 | 310200 | 303900 | 292800 |
| 18 | 305700 | 294900 | 291000 | 286400 | 284800 | e278800 | e303800 | 310000 | 312400 | 310200 | 303700 | 292200 |
| 19 | 305500 | 294700 | 291000 | 286300 | 285400 | e283800 | e303700 | 309600 | 312200 | 310000 | 303500 | 292000 |
| 20 | 305200 | 294300 | 290800 | 286200 | 285100 | 290000 | e303900 | 309300 | 312200 | 309800 | 303100 | 291300 |
| 21 | 304700 | 294100 | 290800 | 286200 | 284900 | 291000 | e304200 | 309100 | 312200 | 309500 | 302900 | 290700 |
| 22 | 304400 | 293800 | 290800 | 286100 | 284600 | 290900 | e304400 | 308700 | 312200 | 309400 | 302700 | 290100 |
| 23 | 303900 | 293600 | 290700 | 286200 | 284300 | 290800 | e304000 | 308700 | 311900 | 309200 | 302400 | 289400 |
| 24 | 303600 | 293200 | 290600 | 286300 | 284000 | 290900 | e304400 | 308500 | 311700 | 309100 | 302000 | 288800 |
| 25 | 302900 | 292600 | 290300 | 286300 | 283700 | 291000 | e303900 | 308500 | 311500 | 309100 | 301400 | 288100 |
| 26 | 302300 | 292300 | 290100 | 286200 | 283000 | 290800 | e303600 | 308700 | 311500 | 308800 | 300900 | 287600 |
| 27 | 301800 | 291700 | 290100 | 286100 | 282500 | 290800 | e303900 | 308900 | 311300 | 308400 | 300200 | 287000 |
| 28 | 301100 | 291400 | 290000 | 286200 | 282200 | 290800 | e303900 | 309300 | 311200 | 308000 | 299500 | 286400 |
| 29 | 300600 | 291000 | 289900 | 286200 | --- | 290900 | e303900 | 309400 | 310900 | 307900 | 299100 | 285900 |
| 30 | 300100 | 290700 | 289700 | 286300 | --- | 291500 | e304300 | 309500 | 310500 | 307900 | 298600 | 285200 |
| 31 | 299600 | --- | 289500 | 286400 | --- | 293300 | --- | 309400 | --- | 307700 | 298200 | --- |
| MEAN | 304900 | 294900 | 290300 | 287700 | 285300 | 284600 | 300500 | 307300 | 311700 | 309900 | 303800 | 292300 |
| MAX | 309300 | 299200 | 291100 | 289500 | 286700 | 293300 | 304400 | 310400 | 313400 | 311000 | 307600 | 297800 |
| MIN | 299600 | 290700 | 289200 | 286100 | 282200 | 278800 | 293000 | 303500 | 308500 | 307700 | 298200 | 285200 |
| (+) | 829.78 | 828.97 | 828.86 | 828.58 | 828.19 | 829.21 | e830.19 | 830.64 | 830.73 | 830.49 | 829.65 | 828.47 |
| (@) | -10200 | -8900 | -1200 | -3100 | -4200 | +11100 | +11000 | +5100 | +1100 | -2800 | -9500 | -13000 |

CAL YR 2001 MAX 382600 MIN 199700 (@) +89900
WTR YR 2002 MAX 313400 MIN 278800 (@) -24600

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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.--100.0 $mi^2$.

PERIOD OF RECORD.--Mar. 1999 to current year.

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

REMARKS.--Records good except those for estimated daily contents, which are fair. 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 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. Conservation pool storage is 28,589 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of new dam | 945.0 |
| Crest of spillway | 927.0 |
| Conservation pool & uncontrolled weir | 920.0 |
| Pipe arch culvert (boat pass breach) | 908.0 |

COOPERATION.--Capacity table was provided by the Texas Water Development Board, and put into effect Mar. 3, 1999.

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 contents, 28,500 acre-ft, June 7, elevation, 919.93 ft; minimum contents, 23,800 acre-ft, Mar. 16, elevation, 917.16 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

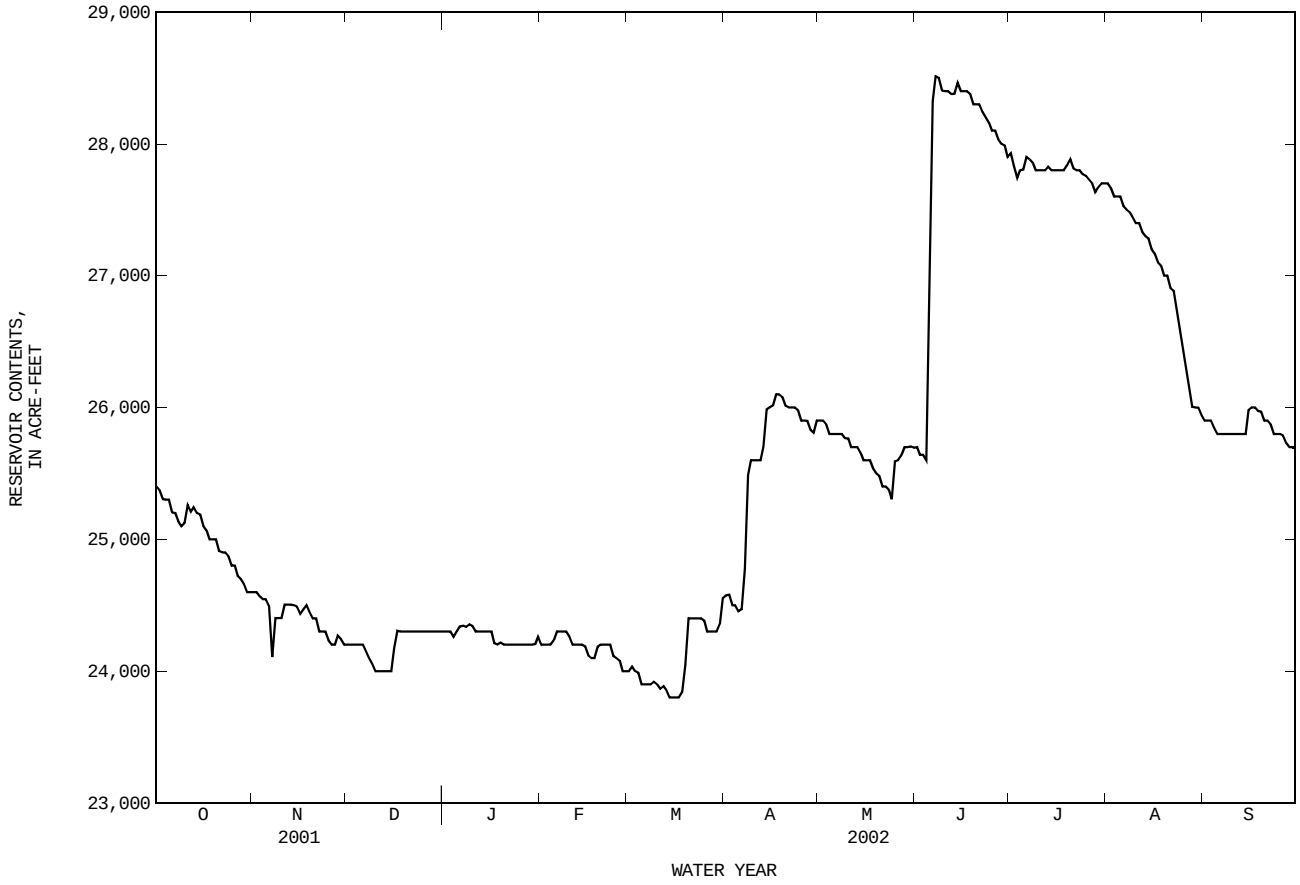
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25400 | 24600 | 24200 | 24300 | 24200 | 24000 | 24600 | 25900 | 25700 | 27900 | 27700 | 25900 |
| 2 | 25400 | 24600 | 24200 | 24300 | 24200 | 24000 | 24600 | 25900 | 25600 | 27800 | 27700 | 25900 |
| 3 | 25300 | 24600 | 24200 | 24300 | 24200 | 24000 | 24500 | 25900 | e25600 | 27700 | 27600 | 25900 |
| 4 | 25300 | 24500 | 24200 | 24300 | 24200 | 24000 | 24500 | 25800 | e25600 | 27800 | 27600 | 25800 |
| 5 | 25300 | 24500 | 24200 | 24300 | 24200 | 23900 | 24500 | 25800 | 27200 | 27800 | 27600 | 25800 |
| 6 | 25200 | e24500 | 24200 | 24300 | 24300 | 23900 | 24500 | 25800 | e28300 | 27900 | 27500 | 25800 |
| 7 | 25200 | e24100 | 24200 | 24300 | 24300 | 23900 | 24800 | 25800 | e28500 | 27900 | 27500 | 25800 |
| 8 | 25100 | e24400 | 24100 | 24300 | 24300 | 23900 | 25500 | 25800 | 28500 | 27900 | 27500 | 25800 |
| 9 | 25100 | e24400 | 24100 | 24400 | 24300 | 23900 | 25600 | 25800 | 28400 | 27800 | 27400 | 25800 |
| 10 | 25100 | e24400 | 24000 | 24300 | 24300 | 23900 | 25600 | 25800 | 28400 | 27800 | 27400 | 25800 |
| 11 | 25300 | e24500 | 24000 | 24300 | 24200 | 23900 | 25600 | 25700 | 28400 | 27800 | 27400 | 25800 |
| 12 | 25200 | e24500 | 24000 | 24300 | 24200 | 23900 | 25600 | 25700 | 28400 | 27800 | 27300 | 25800 |
| 13 | 25200 | e24500 | 24000 | 24300 | 24200 | 23900 | 25700 | 25700 | 28400 | 27800 | 27300 | 25800 |
| 14 | 25200 | 24500 | 24000 | 24300 | 24200 | 23800 | 26000 | 25700 | 28500 | 27800 | 27300 | 25800 |
| 15 | 25200 | 24500 | 24000 | 24300 | 24200 | 23800 | 26000 | 25600 | 28400 | 27800 | 27200 | 26000 |
| 16 | 25100 | 24400 | 24200 | 24300 | 24100 | 23800 | 26000 | 25600 | 28400 | 27800 | 27200 | 26000 |
| 17 | 25100 | 24500 | 24300 | 24200 | 24100 | 23800 | 26100 | 25600 | 28400 | 27800 | 27100 | 26000 |
| 18 | 25000 | 24500 | 24300 | 24200 | 24100 | 23800 | 26100 | 25500 | 28400 | 27800 | 27100 | 26000 |
| 19 | 25000 | 24400 | 24300 | 24200 | 24200 | 24000 | 26100 | 25500 | 28300 | 27800 | 27000 | 26000 |
| 20 | 25000 | 24400 | 24300 | 24200 | 24200 | 24400 | 26000 | 25500 | 28300 | 27900 | 27000 | 25900 |
| 21 | 24900 | 24400 | 24300 | 24200 | 24200 | 24400 | 26000 | 25400 | 28300 | 27800 | 26900 | 25900 |
| 22 | 24900 | 24300 | 24300 | 24200 | 24200 | 24400 | 26000 | 25400 | 28200 | 27800 | 26900 | 25900 |
| 23 | 24900 | 24300 | 24300 | 24200 | 24200 | 24400 | 26000 | 25400 | 28200 | 27800 | 26800 | 25800 |
| 24 | 24900 | 24300 | 24300 | 24200 | 24100 | 24400 | 26000 | 25300 | 28200 | 27800 | 26600 | 25800 |
| 25 | 24800 | 24200 | 24300 | 24200 | 24100 | 24400 | 25900 | 25600 | 28100 | 27800 | 26500 | 25800 |
| 26 | 24800 | 24200 | 24300 | 24200 | 24100 | 24300 | 25900 | 25600 | 28100 | 27700 | 26300 | 25800 |
| 27 | 24700 | 24200 | 24300 | 24200 | 24000 | 24300 | 25900 | 25600 | 28000 | 27700 | 26100 | 25700 |
| 28 | 24700 | 24300 | 24300 | 24200 | 24000 | 24300 | 25800 | 25700 | 28000 | 27600 | 26000 | 25700 |
| 29 | 24700 | 24200 | 24300 | 24200 | --- | 24300 | 25800 | 25700 | 28000 | 27700 | 26000 | 25700 |
| 30 | 24600 | 24200 | 24300 | 24200 | --- | 24400 | 25900 | e25700 | 27900 | 27700 | 26000 | 25700 |
| 31 | 24600 | --- | 24300 | 24300 | --- | 24600 | --- | e25700 | --- | 27700 | 25900 | --- |
| MEAN | 25000 | 24400 | 24200 | 24300 | 24200 | 24100 | 25600 | 25700 | 27900 | 27800 | 27000 | 25800 |
| MAX | 25400 | 24600 | 24300 | 24400 | 24300 | 24600 | 26100 | 25900 | 28500 | 27900 | 27700 | 26000 |
| MIN | 24600 | 24100 | 24000 | 24200 | 24000 | 23800 | 24500 | 25300 | 25600 | 27600 | 25900 | 25700 |
| (+) | 917.65 | 917.41 | 917.45 | 917.43 | 917.29 | 917.61 | 918.43 | 918.29 | 919.61 | 919.48 | 918.44 | 918.28 |
| (@) | -820 | -400 | +100 | 0 | -300 | +600 | +1300 | -200 | +2200 | -200 | -1800 | -200 |

CAL YR 2001 MAX 38000 MIN 21300 (@) +3010
WTR YR 2002 MAX 28500 MIN 23800 (@) +280

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

e Estimated

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



08043900 Lyndon B. Johnson National Grasslands near Alvord, TX
(National Atmospheric Deposition Program (NADP))

PRECIPITATION WATER-QUALITY RECORDS

LOCATION.--Lat 33°23’30", long 97°38’23", Wise County, Hydrologic Unit 12030101, at State Highway 11, 6 mi northeast of Alvord and 11 mi north of Decatur.

OWNER.--U.S. Geological Survey.

PERIOD OF RECORD.--July 1984 to Sept. 2002 (discountinued).

INSTRUMENTATION.--Wet/dry precipitation collector, weighing-bucket type recording rain gage with event recorder, and a National Weather Service 8-in rain gage (back-up only).

EXTREMES FOR CURRENT YEAR.--Maximum field pH, 6.3, Jan. 22-29, Feb. 26-Mar. 5, June 11-18: minimum field pH, 4.5, Sept. 10-17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | CALCIUM ATM DEP WET DIS (MG/L) (82932) | MAG-NESIUM ATM DEP WET DIS (MG/L) (83002) | POTAS-SIUM ATM DEP WET DIS (MG/L) (83120) | SODIUM ATM DEP WET DIS (MG/L) (83138) | NI-TROGEN AMMON. ATM DEP WET DIS AS N (MG/L) (83044) | NI-TROGEN NITRATE ATM DEP WET DIS AS N (MG/L) (83068) | CHLO-RIDE ATM DEP WET DIS (MG/L) (82944) | SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160) | CALCIUM ATM DEP WET DIS (MG/M2) (82933) | MAG-NESIUM ATM DEP WET DIS (MG/M2) (83003) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT 30-NOV 06 | 0905 | --o | --o | 1.75 | .17 | .18 | 1.08 | .790 | 1.53 | 1.64 | 3.46 | .6 | .1 |
| NOV 13-20 | 0905 | --e | 4.6 | .42 | .04 | .37 | .23 | .120 | .430 | .72 | 1.39 | 3.0 | .3 |
| DEC 11-18 | 0905 | 9 | 4.9 | .08 | M | M | .03 | .080 | .100 | .05 | .54 | 5.3 | .3 |
| DEC 26 2001-JAN 02 2002 | 0855 | --o | --o | .28 | .02 | .03 | <.02 | <.090 | .420 | .10 | .65 | .1 | U |
| JAN 22-29 | 0905 | 16 | 6.3 | .91 | .04 | .05 | .23 | .660 | .340 | .15 | 2.69 | 7.4 | .4 |
| JAN 29-FEB 05 | 0905 | 13 | 4.8 | .18 | .02 | .02 | .17 | .250 | .250 | .28 | .98 | 3.1 | .4 |
| FEB 05-12 | 1035 | 6 | 5.0 | <.01 | <.003 | <.003 | M | .050 | .090 | .02 | .34 | <.1 | <.02 |
| FEB 12-19 | 0905 | 11 | 5.7 | .60 | .04 | .04 | .26 | .300 | .150 | .26 | 1.40 | 13.5 | .9 |
| FEB 26-MAR 05 | 0905 | 23 | 6.3 | 1.80 | .12 | .10 | .41 | .580 | .770 | .28 | 2.36 | 8.7 | .6 |
| MAR 12-19 | 0905 | 15 | 4.8 | .19 | .03 | .04 | .23 | .330 | .180 | .32 | 1.42 | 11.4 | 1.8 |
| MAR 19-26 | 0905 | 7 | 5.3 | .11 | .01 | .01 | .04 | .120 | .100 | .05 | .56 | 5.6 | .3 |
| MAR 26-APR 02 | 0908 | 8 | 5.9 | .52 | .02 | .04 | .06 | .200 | .160 | .10 | .98 | 23.6 | 1.0 |
| APR 02-09 | 0830 | 13 | 5.1 | .58 | .03 | .06 | .11 | .330 | .200 | .20 | 1.68 | 42.3 | 2.3 |
| APR 09-16 | 0915 | 14 | 4.8 | .42 | .03 | .04 | .12 | .350 | .450 | .16 | 1.63 | 9.5 | .7 |
| APR 16-23 | 0900 | --o | --o | 1.72 | .15 | .22 | .72 | 1.06 | .800 | 1.25 | 4.68 | 1.7 | .1 |
| APR 30-MAY 07 | 0930 | 12 | 5.7 | 1.03 | .06 | .14 | .22 | .530 | .520 | .32 | 2.13 | 4.3 | .3 |
| MAY 07-14 | 0850 | 13 | 5.5 | .40 | .05 | .09 | .33 | .550 | .250 | .48 | 1.61 | 15.7 | 2.0 |
| MAY 21-28 | 0905 | 11 | 6.0 | .43 | .07 | .22 | .29 | .050 | .240 | .50 | 1.13 | 24.1 | 3.7 |
| MAY 28-JUN 04 | 0855 | 6 | 5.4 | .12 | .02 | .03 | .10 | .150 | .130 | .13 | .40 | .7 | .1 |
| JUN 04-11 | 0945 | 8 | 5.4 | .20 | .02 | .11 | .11 | .230 | .160 | .18 | .92 | 15.9 | 1.7 |
| JUN 11-18 | 0850 | 9 | 6.3 | .75 | .03 | .05 | .11 | .200 | .220 | .16 | .69 | 26.0 | 1.0 |
| JUN 25-JUL 02 | 0945 | 9 | 5.3 | .20 | .04 | .04 | .20 | .180 | .180 | .35 | 1.16 | 6.5 | 1.4 |
| JUL 02-09 | 0925 | 10 | 5.8 | .24 | .03 | .18 | .31 | .020 | .220 | .52 | 1.08 | 12.0 | 1.7 |
| JUL 09-16 | 0910 | 8 | 6.0 | .57 | .01 | .05 | .03 | .270 | .300 | .07 | .67 | 25.6 | .7 |
| JUL 16-23 | 0915 | 12 | 4.7 | .18 | .01 | .09 | .04 | .100 | .320 | .08 | .98 | 2.2 | .2 |
| JUL 23-30 | 0925 | 9 | 5.8 | .55 | .04 | .02 | .17 | .180 | .240 | .28 | .67 | 19.1 | 1.3 |
| JUL 30-AUG 06 | 0905 | 10 | 5.9 | .52 | .06 | .01 | .40 | .250 | .250 | .63 | .88 | 6.8 | .8 |
| AUG 20-27 | 0905 | 10 | 5.2 | .69 | .04 | .05 | .10 | .120 | .260 | .16 | .88 | 9.8 | .5 |
| SEP 03-10 | 0922 | 9 | 6.1 | .12 | .04 | .81 | .06 | .510 | .110 | .14 | .74 | 3.3 | 1.1 |
| SEP 10-17 | 0940 | 18 | 4.5 | .34 | .01 | .02 | .01 | .340 | .390 | .06 | 2.08 | 7.6 | .3 |

08043900 Lyndon B. Johnson National Grasslands near Alvord, TX--Continued
(National Atmospheric Deposition Program (NADP))

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | POTAS-SIUM ATM DEP WET DIS (MG/M2) (83121) | SODIUM ATM DEP WET DIS (MG/M2) (83139) | NI-TROGEN AMMON. ATM DEP WET DIS AS N (MG/M2) (83045) | NI-TROGEN NITRATE ATM DEP WET DIS AS N (MG/M2) (83069) | CHLO-RIDE ATM DEP WET DIS (MG/M2) (82945) | SULFATE ATM DEP WET DIS AS SO4 (MG/M2) (83161) | VOLUME ATM DEP WET (L) (83177) |
|---|---|---|---|---|---|---|---|
| OCT 30-NOV 06 | .1 | .4 | .300 | .6 | .6 | 1.3 | .025 |
| NOV 13-20 | 2.7 | 1.6 | .900 | 3.1 | 5.2 | 10.0 | .490 |
| DEC 11-18 | .3 | 1.7 | 5.10 | 6.4 | 3.3 | 35.7 | 4.484 |
| DEC 26 2001-JAN 02 2002 | U | <.005 | <.030 | .1 | U | .2 | .020 |
| JAN 22-29 | .4 | 1.9 | 5.40 | 2.8 | 1.2 | 22.0 | .554 |
| JAN 29-FEB 05 | .3 | 2.9 | 4.20 | 4.3 | 4.8 | 16.7 | 1.158 |
| FEB 05-12 | <.02 | U | .400 | .7 | .2 | 2.8 | .550 |
| FEB 12-19 | .9 | 5.9 | 6.70 | 3.4 | 5.9 | 31.6 | 1.530 |
| FEB 26-MAR 05 | .5 | 2.0 | 2.80 | 3.7 | 1.3 | 11.4 | .327 |
| MAR 12-19 | 2.1 | 13.5 | 20.0 | 10.8 | 19.2 | 85.0 | 4.063 |
| MAR 19-26 | .4 | 1.8 | 6.40 | 5.1 | 2.6 | 28.6 | 3.464 |
| MAR 26-APR 02 | 1.8 | 2.9 | 9.20 | 7.5 | 4.5 | 44.5 | 3.082 |
| APR 02-09 | 4.1 | 8.1 | 23.8 | 14.4 | 14.6 | 122 | 4.951 |
| APR 09-16 | .9 | 2.7 | 7.90 | 10.3 | 3.6 | 37.0 | 1.541 |
| APR 16-23 | .2 | .7 | 1.00 | .8 | 1.2 | 4.6 | .067 |
| APR 30-MAY 07 | .6 | .9 | 2.20 | 2.2 | 1.3 | 8.9 | .283 |
| MAY 07-14 | 3.5 | 12.9 | 21.7 | 9.8 | 18.9 | 63.2 | 2.667 |
| MAY 21-28 | 12.5 | 16.3 | 3.10 | 13.2 | 28.1 | 63.4 | 3.812 |
| MAY 28-JUN 04 | .2 | .6 | .900 | .8 | .8 | 2.4 | .407 |
| JUN 04-11 | 8.5 | 9.0 | 18.5 | 12.7 | 14.3 | 73.0 | 5.391 |
| JUN 11-18 | 1.8 | 3.7 | 7.00 | 7.7 | 5.6 | 23.9 | 2.357 |
| JUN 25-JUL 02 | 1.5 | 6.4 | 5.80 | 5.9 | 11.3 | 37.5 | 2.193 |
| JUL 02-09 | 9.2 | 15.6 | <.780 | 10.8 | 26.0 | 54.1 | 3.401 |
| JUL 09-16 | 2.4 | 1.3 | 12.2 | 13.5 | 3.1 | 30.0 | 3.045 |
| JUL 16-23 | 1.2 | .5 | 1.20 | 3.9 | 1.0 | 12.1 | .838 |
| JUL 23-30 | .8 | 6.1 | 6.20 | 8.3 | 9.7 | 23.3 | 2.363 |
| JUL 30-AUG 06 | .2 | 5.1 | 3.20 | 3.2 | 8.2 | 11.5 | .884 |
| AUG 20-27 | .7 | 1.4 | 1.80 | 3.6 | 2.3 | 12.4 | .960 |
| SEP 03-10 | 22.1 | 1.7 | 14.0 | 3.0 | 3.8 | 20.2 | 1.854 |
| SEP 10-17 | .4 | .3 | 7.70 | 8.6 | 1.3 | 46.5 | 1.520 |

Remark codes used in this report:
< -- Less than
M -- Presence verified, not quantified
U -- Analyzed for, not detected

Null value qualifier codes used in this report:
e -- Required equipment not functional/avail
o -- Insufficient amount of water

## 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 $mi^2$.

PERIOD OF RECORD.--Oct. 1936 to current year. 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.--Records poor. 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 the flood-detention pools of 19 floodwater-retarding structures. These structures control runoff from a 46.0 $mi^2$ 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 $ft^3/s$ (62,030 acre-ft/yr) at site and datum then in use.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1936-55).--Maximum discharge, 53,000 $ft^3/s$ June 10, 1941, gage height, 15.69 ft, at site and datum then in use; no flow at times.

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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.02 | 0.04 | 0.73 | 0.95 | 1.3 | 96 | 24 | 11 | 7.6 | 7.5 | 1.3 |
| 2 | 0.01 | 0.01 | 0.04 | 0.73 | 1.0 | 1.6 | 46 | 14 | 9.3 | 8.6 | 5.6 | 1.2 |
| 3 | 0.06 | 0.00 | 0.05 | 0.73 | 0.91 | 1.6 | 28 | 12 | 7.9 | 15 | 4.4 | 1.1 |
| 4 | 0.11 | 0.00 | 0.07 | 0.79 | 1.5 | 1.5 | 21 | 11 | 6.6 | 19 | 3.9 | 1.1 |
| 5 | 0.12 | 0.00 | 0.10 | 0.91 | 2.8 | 1.6 | 20 | 11 | 1070 | 15 | 3.9 | 1.1 |
| 6 | 0.13 | 0.01 | 0.07 | 0.99 | 3.3 | 1.7 | 19 | 11 | 1170 | 15 | 3.3 | 1.0 |
| 7 | 0.15 | 0.00 | 0.05 | 0.79 | 5.2 | 1.9 | 382 | 9.9 | 262 | 11 | 2.9 | 0.97 |
| 8 | 0.18 | 0.00 | 0.01 | 0.77 | 3.9 | 2.1 | 1170 | 9.7 | 110 | 7.8 | 2.7 | 1.1 |
| 9 | 0.22 | 0.00 | 0.02 | 0.80 | 3.0 | 1.4 | e809 | 8.3 | 68 | 6.5 | 3.6 | 1.5 |
| 10 | 0.27 | 0.00 | 0.03 | 0.79 | 2.1 | 1.1 | e554 | 55 | 48 | 5.9 | 6.7 | 1.3 |
| 11 | 6.6 | 0.01 | 0.06 | 0.71 | 1.4 | 1.2 | e335 | 31 | 36 | 5.4 | 5.9 | 1.1 |
| 12 | 1.2 | 0.02 | 0.12 | 0.67 | 1.3 | 1.2 | e149 | 12 | 29 | 91 | 4.2 | 1.1 |
| 13 | 8.5 | 0.18 | 0.12 | 0.70 | 1.1 | 1.4 | e77 | 9.5 | 28 | 75 | 2.7 | 1.0 |
| 14 | 0.50 | 0.02 | 0.10 | 0.68 | 1.2 | 1.5 | 315 | 8.8 | 47 | 59 | 2.1 | 1.0 |
| 15 | 0.16 | 0.03 | 0.10 | 0.76 | 1.1 | 1.3 | 119 | 8.2 | 33 | 24 | 1.9 | 2.2 |
| 16 | 0.08 | 0.04 | 11 | 0.69 | 1.00 | 1.1 | 64 | 21 | 34 | 21 | 1.7 | 1.5 |
| 17 | 0.07 | 0.05 | 30 | 0.76 | 1.0 | 1.1 | 78 | 130 | 26 | 25 | 1.7 | 1.1 |
| 18 | 0.06 | 0.04 | 7.7 | 0.90 | 18 | 3.9 | 44 | 40 | 20 | 21 | 1.6 | 0.98 |
| 19 | 0.06 | 0.03 | 2.4 | 0.97 | 36 | 136 | 35 | 14 | 16 | 15 | 1.5 | 1.0 |
| 20 | 0.04 | 0.00 | 1.1 | 1.0 | 12 | 731 | 31 | 9.9 | 13 | 12 | 1.5 | 0.96 |
| 21 | 0.05 | 0.01 | 0.97 | 1.1 | 5.5 | 166 | 27 | 8.3 | 11 | 12 | 1.4 | 0.95 |
| 22 | 0.05 | 0.03 | 0.93 | 1.1 | 2.8 | 54 | 24 | 7.5 | 10 | 10 | 1.3 | 0.92 |
| 23 | 0.04 | 0.04 | 0.81 | 1.0 | 2.0 | 31 | 21 | 6.7 | 9.0 | 8.0 | 1.3 | 0.87 |
| 24 | 0.00 | 0.01 | 0.72 | 0.98 | 1.8 | 24 | 20 | 6.2 | 8.4 | 7.0 | 1.3 | 0.84 |
| 25 | 0.00 | 0.00 | 0.73 | 0.95 | 1.8 | 18 | 16 | 308 | 7.8 | 9.1 | 1.3 | 0.86 |
| 26 | 0.00 | 0.01 | 0.75 | 0.92 | 1.1 | 14 | 16 | 89 | 7.6 | 8.5 | 1.3 | 0.90 |
| 27 | 0.00 | 0.02 | 0.76 | 0.92 | 1.0 | 13 | 18 | 37 | 7.3 | 6.9 | 1.4 | 0.88 |
| 28 | 0.00 | 0.28 | 0.80 | 0.97 | 1.1 | 13 | 16 | 43 | 6.8 | 6.2 | 1.6 | 0.91 |
| 29 | 0.00 | 0.05 | 0.74 | 1.0 | --- | 12 | 14 | 40 | 5.9 | 6.1 | 1.5 | 0.90 |
| 30 | 0.00 | 0.05 | 0.69 | 1.0 | --- | 143 | 32 | 22 | 5.7 | 9.8 | 1.5 | 0.91 |
| 31 | 0.00 | --- | 0.75 | 1.1 | --- | 555 | --- | 15 | --- | 12 | 1.4 | --- |
| TOTAL | 18.66 | 0.96 | 61.83 | 26.91 | 115.86 | 1938.5 | 4596 | 1033.0 | 3124.3 | 555.4 | 84.6 | 32.55 |
| MEAN | 0.602 | 0.032 | 1.995 | 0.868 | 4.138 | 62.53 | 153.2 | 33.32 | 104.1 | 17.92 | 2.729 | 1.085 |
| MAX | 8.5 | 0.28 | 30 | 1.1 | 36 | 731 | 1170 | 308 | 1170 | 91 | 7.5 | 2.2 |
| MIN | 0.00 | 0.00 | 0.01 | 0.67 | 0.91 | 1.1 | 14 | 6.2 | 5.7 | 5.4 | 1.3 | 0.84 |
| AC-FT | 37 | 1.9 | 123 | 53 | 230 | 3850 | 9120 | 2050 | 6200 | 1100 | 168 | 65 |

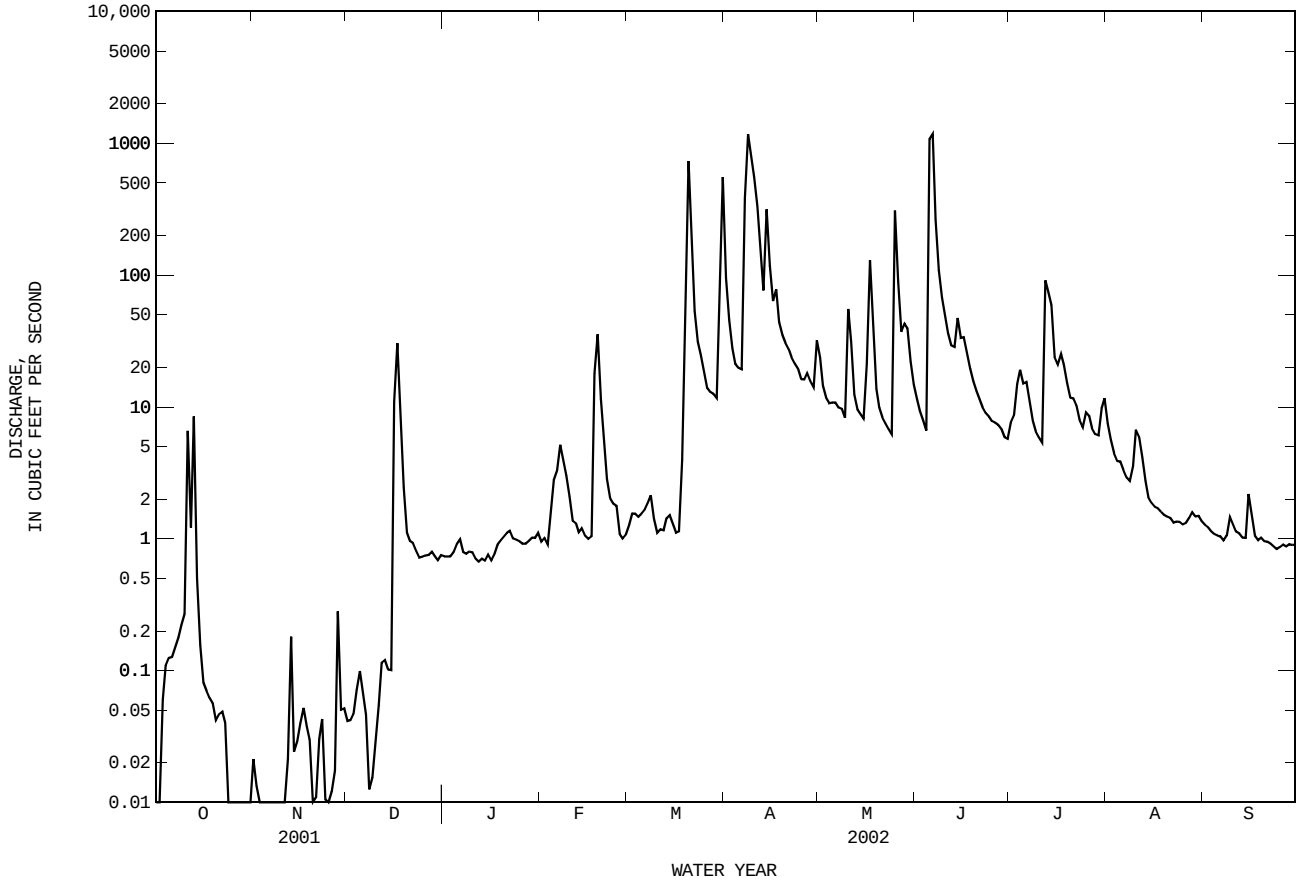
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 97.28 | 39.81 | 39.25 | 28.76 | 51.57 | 91.74 | 103.5 | 211.6 | 129.8 | 18.75 | 10.41 | 26.57 |
| MAX | 1829 | 298 | 743 | 257 | 401 | 570 | 1175 | 1284 | 1250 | 181 | 230 | 491 |
| (WY) | 1982 | 1965 | 1992 | 1992 | 2001 | 1977 | 1957 | 1990 | 1989 | 1973 | 1973 | 1962 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.13 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1959 | 1956 | 1956 | 1956 | 2000 | 1956 | 1956 | 1980 | 1956 | 1964 | 1957 | 1956 |

08043950 Big Sandy Creek near Chico, TX--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1956 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 31014.66 | | 11588.57 | | | |
| ANNUAL MEAN | 84.97 | | 31.75 | | 70.85 | |
| HIGHEST ANNUAL MEAN | | | | | 317 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 0.40 | 2000 |
| HIGHEST DAILY MEAN | 1860 | Feb 16 | 1170 | Apr 8 | 23800 | Oct 13 1981 |
| LOWEST DAILY MEAN | 0.00 | Oct 1 | 0.00 | Oct 1 | 0.00 | Oct 1 1955 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Oct 24 | 0.00 | Oct 24 | 0.00 | Oct 5 1955 |
| MAXIMUM PEAK FLOW | | | 1560 | Jun 5 | g45000 | Oct 13 1981 |
| MAXIMUM PEAK STAGE | | | 12.12 | Jun 5 | g14.78 | Oct 13 1981 |
| ANNUAL RUNOFF (AC-FT) | 61520 | | 22990 | | 51330 | |
| 10 PERCENT EXCEEDS | 256 | | 40 | | 92 | |
| 50 PERCENT EXCEEDS | 2.2 | | 1.5 | | 6.0 | |
| 90 PERCENT EXCEEDS | 0.04 | | 0.04 | | 0.00 | |

e Estimated
z Period of regulated streamflow.
g At site and datum then in use.



## 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 $mi^2$.

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.--No estimated daily discharges. Records good. Since installation of gage in Jan. 1947, at least 10% of contributing drainage area has been regulated. In addition, flow from 91.2 $mi^2$ above station is affected at times by discharge from the flood-detention pools of 36 floodwater-retarding structures in the Big Sandy and Salt Creek drainage basins. No known diversions.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

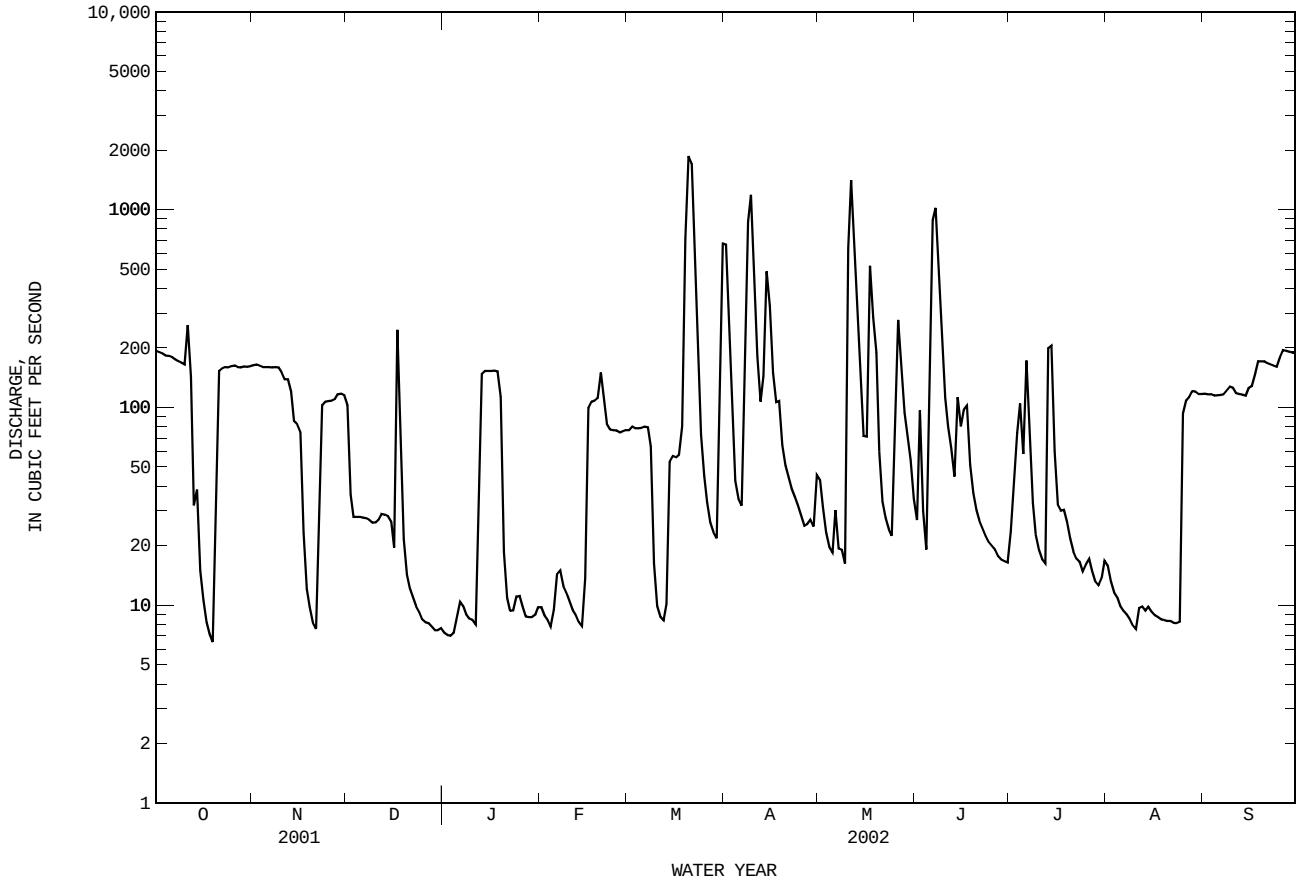
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 193 | 164 | 103 | 7.2 | 9.8 | 77 | 667 | 43 | 27 | 24 | 16 | 117 |
| 2 | 190 | 165 | 36 | 7.1 | 8.9 | 80 | 182 | 31 | 96 | 41 | 13 | 117 |
| 3 | 187 | 162 | 28 | 7.0 | 8.4 | 79 | 77 | 23 | 30 | 75 | 12 | 117 |
| 4 | 183 | 160 | 28 | 7.2 | 7.8 | 78 | 43 | 20 | 19 | 105 | 11 | 115 |
| 5 | 182 | 160 | 28 | 8.7 | 9.5 | 79 | 35 | 19 | 258 | 58 | 9.9 | 115 |
| 6 | 180 | 160 | 28 | 10 | 14 | 80 | 32 | 30 | 887 | 172 | 9.4 | 116 |
| 7 | 175 | 160 | 28 | 9.9 | 15 | 79 | 165 | 19 | 1020 | 84 | 9.0 | 116 |
| 8 | 171 | 160 | 27 | 9.0 | 13 | 64 | 869 | 19 | 551 | 33 | 8.5 | 122 |
| 9 | 169 | 160 | 26 | 8.6 | 12 | 16 | 1190 | 16 | 263 | 23 | 7.9 | 127 |
| 10 | 165 | 151 | 26 | 8.4 | 11 | 9.9 | 543 | 641 | 112 | 19 | 7.5 | 126 |
| 11 | 261 | 139 | 27 | 8.0 | 9.4 | 8.7 | 181 | 1410 | 80 | 17 | 9.7 | 118 |
| 12 | 142 | 139 | 29 | 46 | 8.9 | 8.4 | 107 | 650 | 62 | 16 | 9.8 | 117 |
| 13 | 32 | 120 | 29 | 148 | 8.2 | 10 | 144 | 244 | 45 | 199 | 9.4 | 116 |
| 14 | 38 | 86 | 28 | 153 | 7.9 | 53 | 488 | 118 | 113 | 206 | 9.8 | 115 |
| 15 | 15 | 82 | 26 | 153 | 14 | 57 | 327 | 72 | 80 | 60 | 9.3 | 125 |
| 16 | 11 | 75 | 20 | 153 | 99 | 56 | 150 | 71 | 97 | 32 | 8.9 | 128 |
| 17 | 8.2 | 23 | 246 | 153 | 107 | 58 | 106 | 520 | 102 | 30 | 8.7 | 146 |
| 18 | 7.2 | 12 | 64 | 153 | 108 | 80 | 108 | 285 | 51 | 30 | 8.5 | 171 |
| 19 | 6.5 | 9.8 | 22 | 113 | 112 | 713 | 64 | 190 | 37 | 26 | 8.4 | 171 |
| 20 | 40 | 8.2 | 14 | 19 | 150 | 1870 | 51 | 60 | 30 | 22 | 8.3 | 171 |
| 21 | 153 | 7.6 | 12 | 11 | 112 | 1720 | 44 | 33 | 27 | 19 | 8.3 | 167 |
| 22 | 158 | 21 | 11 | 9.4 | 83 | 674 | 39 | 28 | 24 | 17 | 8.2 | 165 |
| 23 | 160 | 103 | 9.9 | 9.4 | 77 | 171 | 35 | 24 | 22 | 17 | 8.1 | 162 |
| 24 | 160 | 107 | 9.2 | 11 | 77 | 73 | 32 | 22 | 21 | 15 | 8.2 | 160 |
| 25 | 162 | 108 | 8.5 | 11 | 76 | 45 | 28 | 87 | 20 | 16 | 93 | 179 |
| 26 | 163 | 108 | 8.2 | 9.9 | 75 | 33 | 25 | 276 | 19 | 17 | 108 | 195 |
| 27 | 160 | 110 | 8.1 | 8.8 | 76 | 26 | 26 | 159 | 18 | 15 | 113 | 193 |
| 28 | 160 | 117 | 7.8 | 8.7 | 77 | 23 | 27 | 94 | 17 | 13 | 121 | 191 |
| 29 | 161 | 117 | 7.5 | 8.7 | --- | 22 | 25 | 73 | 17 | 13 | 121 | 190 |
| 30 | 161 | 115 | 7.5 | 8.9 | --- | 86 | 46 | 54 | 16 | 14 | 117 | 190 |
| 31 | 162 | --- | 7.6 | 9.8 | --- | 674 | --- | 34 | --- | 17 | 117 | --- |
| TOTAL | 4115.9 | 3209.6 | 960.3 | 1288.7 | 1386.8 | 7103.0 | 5856 | 5365 | 4161 | 1445 | 1017.8 | 4358 |
| MEAN | 132.8 | 107.0 | 30.98 | 41.57 | 49.53 | 229.1 | 195.2 | 173.1 | 138.7 | 46.61 | 32.83 | 145.3 |
| MAX | 261 | 165 | 246 | 153 | 150 | 1870 | 1190 | 1410 | 1020 | 206 | 121 | 195 |
| MIN | 6.5 | 7.6 | 7.5 | 7.0 | 7.8 | 8.4 | 25 | 16 | 16 | 13 | 7.5 | 115 |
| AC-FT | 8160 | 6370 | 1900 | 2560 | 2750 | 14090 | 11620 | 10640 | 8250 | 2870 | 2020 | 8640 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 295.7 | 186.0 | 174.0 | 105.6 | 153.6 | 234.2 | 271.7 | 687.1 | 452.0 | 197.5 | 218.9 | 177.9 |
| MAX | 4063 | 1248 | 3073 | 929 | 2003 | 1728 | 4339 | 5908 | 5439 | 1330 | 1157 | 1643 |
| (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 | 0.025 | 0.23 |
| (WY) | 1957 | 1984 | 1953 | 1956 | 1953 | 1955 | 1955 | 1959 | 1953 | 1979 | 1980 | 1956 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1947 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 94424.9 | | 40267.1 | | | |
| ANNUAL MEAN | 258.7 | | 110.3 | | 263.6 | |
| HIGHEST ANNUAL MEAN | | | | | 1094 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 58.6 | 1953 |
| HIGHEST DAILY MEAN | 4480 | Feb 17 | 1870 | Mar 20 | 38800 | Oct 14 1981 |
| LOWEST DAILY MEAN | 5.0 | Sep 15 | 6.5 | Oct 19 | 0.00 | Aug 6 1948 |
| ANNUAL SEVEN-DAY MINIMUM | 5.3 | Sep 11 | 7.3 | Dec 29 | 0.00 | Sep 25 1952 |
| MAXIMUM PEAK FLOW | | | 2410 | Mar 20 | 60400 | Oct 14 1981 |
| MAXIMUM PEAK STAGE | | | 17.27 | Mar 20 | 25.87 | Oct 14 1981 |
| ANNUAL RUNOFF (AC-FT) | 187300 | | 79870 | | 191000 | |
| 10 PERCENT EXCEEDS | 567 | | 185 | | 477 | |
| 50 PERCENT EXCEEDS | 158 | | 51 | | 66 | |
| 90 PERCENT EXCEEDS | 12 | | 8.7 | | 4.4 | |

08044500 West Fork Trinity River near Boyd, TX--Continued



## 08044800 Walnut Creek at Reno, TX

LOCATION.--Lat 32°56′44", long 97°34′58", Parker County, Hydrologic Unit 12030101, on 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 $mi^2$.

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.--Records fair except those for estimated daily discharges and those above 3,000 $ft^3$, which are poor. No known regulation or diversions. No flow at times.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.24 | 0.23 | 0.51 | 0.91 | 1.1 | 1.3 | 8.0 | 3.4 | 2.1 | 14 | 0.11 | 0.06 |
| 2 | 0.24 | 0.23 | 0.51 | 0.93 | 0.96 | 1.7 | 3.9 | 3.0 | 1.9 | 35 | 0.11 | 0.05 |
| 3 | 0.26 | 0.26 | 0.48 | 0.95 | 0.95 | 1.7 | 2.6 | 6.1 | 1.6 | 5.7 | 0.08 | 0.04 |
| 4 | 0.26 | 0.27 | 0.53 | 1.1 | 1.0 | 1.4 | 2.2 | 7.8 | 1.5 | 2.5 | 0.07 | 0.04 |
| 5 | 0.23 | 0.27 | 0.53 | 1.3 | 3.1 | 1.4 | 2.4 | 54 | 4.7 | 1.9 | 0.06 | 0.05 |
| 6 | 0.20 | 0.31 | 0.51 | 1.4 | 9.0 | 1.5 | 4.6 | 19 | 10 | 1.0 | 0.05 | 0.04 |
| 7 | 0.24 | 0.28 | 0.45 | 1.1 | 2.5 | 1.7 | 52 | 7.8 | 5.0 | 0.55 | 0.05 | 0.05 |
| 8 | 0.26 | 0.30 | 0.41 | 1.0 | 1.6 | 1.8 | 93 | 7.5 | 4.4 | 0.47 | 0.04 | 0.07 |
| 9 | 0.28 | 0.28 | 0.40 | 1.0 | 1.3 | 1.5 | 20 | 6.1 | 2.3 | 0.44 | 0.04 | 0.08 |
| 10 | 0.27 | 0.26 | 0.38 | 1.0 | 1.1 | 1.3 | 12 | 14 | 1.8 | 0.41 | 0.05 | 0.05 |
| 11 | 0.75 | 0.26 | 0.49 | 0.99 | 0.93 | 1.3 | 8.6 | 8.6 | 1.7 | 0.39 | 0.07 | 0.03 |
| 12 | 2.7 | 0.39 | 0.69 | 0.88 | 0.99 | 1.4 | 6.9 | 4.5 | 1.5 | 0.35 | 0.06 | 0.03 |
| 13 | 0.80 | 0.39 | 0.73 | 1.0 | 1.0 | 1.1 | 28 | 11 | 1.7 | 0.39 | 0.05 | 0.03 |
| 14 | 0.34 | 0.45 | 0.72 | 0.96 | 1.1 | 1.1 | 29 | 5.7 | 1.8 | 0.42 | 0.04 | 0.03 |
| 15 | 0.24 | 0.45 | 0.71 | 0.88 | 1.1 | 0.98 | e15 | 3.6 | 2.4 | 0.46 | 0.04 | 0.04 |
| 16 | 0.17 | 0.49 | 5.0 | 0.88 | 1.1 | 0.94 | e12 | 3.1 | 8.8 | 0.66 | 0.04 | 0.03 |
| 17 | 0.17 | 0.66 | 21 | 0.95 | 0.97 | 1.0 | e10 | 3.6 | 8.0 | 0.59 | 0.03 | 0.03 |
| 18 | 0.16 | 0.57 | 5.3 | 0.99 | 1.2 | 15 | e8.6 | 3.2 | 3.8 | 0.48 | 0.04 | 0.03 |
| 19 | 0.14 | 0.47 | 1.9 | 1.1 | 9.8 | 443 | e5.9 | 2.6 | 3.1 | 0.46 | 0.04 | 0.05 |
| 20 | 0.14 | 0.35 | 1.3 | 1.0 | 5.2 | 171 | e5.2 | 2.3 | 2.6 | 0.44 | 0.04 | 0.04 |
| 21 | 0.18 | 0.32 | 1.1 | 0.95 | 1.6 | 27 | e4.7 | 2.2 | 2.2 | 0.39 | 0.03 | 0.03 |
| 22 | 0.18 | 0.33 | 1.1 | 0.94 | 1.1 | 11 | e4.2 | 2.0 | 1.9 | 0.32 | 0.04 | 0.03 |
| 23 | 0.20 | 0.42 | 0.97 | 1.0 | 1.1 | 6.2 | e4.0 | 2.0 | 1.5 | 0.26 | 0.06 | 0.03 |
| 24 | 0.19 | 0.38 | 0.88 | 3.9 | 1.2 | 4.9 | 3.8 | 2.0 | 1.4 | 0.21 | 0.06 | 0.02 |
| 25 | 0.17 | 0.33 | 0.90 | 4.5 | 1.1 | 3.5 | 3.6 | 2.0 | 1.3 | 0.21 | 0.07 | 0.03 |
| 26 | 0.16 | 0.33 | 0.88 | 1.4 | 0.96 | 2.7 | 3.4 | 15 | 1.2 | 0.14 | 0.07 | 0.03 |
| 27 | 0.16 | 0.32 | 0.91 | 1.0 | 0.99 | 2.5 | 4.2 | 6.0 | 0.97 | 0.12 | 0.07 | 0.03 |
| 28 | 0.15 | 0.42 | 0.97 | 0.99 | 1.1 | 2.6 | 4.2 | 5.2 | 0.85 | 0.12 | 0.07 | 0.03 |
| 29 | 0.19 | 0.54 | 0.95 | 1.0 | --- | 2.6 | 3.7 | 11 | 0.81 | 0.11 | 0.08 | 0.02 |
| 30 | 0.20 | 0.54 | 0.89 | 1.1 | --- | 4.2 | 3.6 | 4.5 | 1.2 | 0.13 | 0.07 | 0.02 |
| 31 | 0.21 | --- | 0.88 | 1.3 | --- | 33 | --- | 2.6 | --- | 0.14 | 0.06 | --- |
| TOTAL | 10.08 | 11.10 | 52.98 | 38.40 | 55.15 | 752.32 | 369.3 | 231.4 | 84.03 | 68.76 | 1.79 | 1.14 |
| MEAN | 0.325 | 0.370 | 1.709 | 1.239 | 1.970 | 24.27 | 12.31 | 7.465 | 2.801 | 2.218 | 0.058 | 0.038 |
| MAX | 2.7 | 0.66 | 21 | 4.5 | 9.8 | 443 | 93 | 54 | 10 | 35 | 0.11 | 0.08 |
| MIN | 0.14 | 0.23 | 0.38 | 0.88 | 0.93 | 0.94 | 2.2 | 2.0 | 0.81 | 0.11 | 0.03 | 0.02 |
| AC-FT | 20 | 22 | 105 | 76 | 109 | 1490 | 733 | 459 | 167 | 136 | 3.6 | 2.3 |

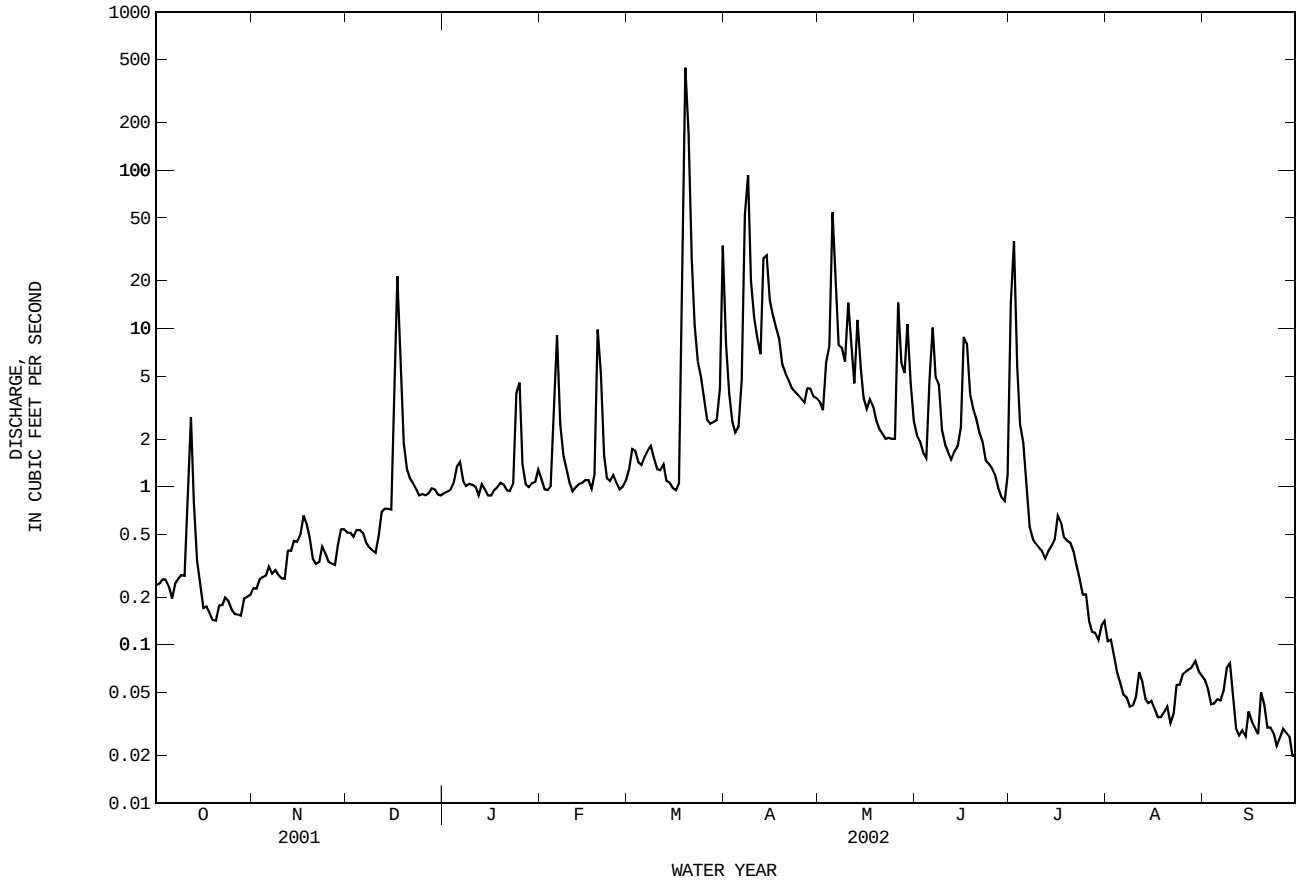
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 3.042 | 19.60 | 7.466 | 6.990 | 46.48 | 41.48 | 20.22 | 22.84 | 15.58 | 3.793 | 3.905 | 1.408 |
| MAX | 7.64 | 120 | 17.9 | 17.0 | 178 | 104 | 82.1 | 92.2 | 53.0 | 19.1 | 14.6 | 4.52 |
| (WY) | 1999 | 1997 | 1998 | 1998 | 1997 | 1998 | 1997 | 1997 | 2000 | 1997 | 1997 | 1996 |
| MIN | 0.003 | 0.25 | 0.61 | 0.27 | 0.54 | 6.76 | 5.36 | 1.43 | 0.84 | 0.13 | 0.004 | 0.000 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1996 | 1999 | 2000 | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1996 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 5427.22 | | 1676.45 | | | |
| ANNUAL MEAN | 14.87 | | 4.593 | | 15.86 | |
| HIGHEST ANNUAL MEAN | | | | | 53.7 | 1997 |
| LOWEST ANNUAL MEAN | | | | | 3.98 | 1996 |
| HIGHEST DAILY MEAN | 1180 | Feb 16 | 443 | Mar 19 | 2350 | Mar 16 1998 |
| LOWEST DAILY MEAN | 0.14 | Oct 19 | 0.02 | Sep 24 | 0.00 | Sep 4 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 0.16 | Oct 16 | 0.03 | Sep 24 | 0.00 | Sep 4 1999 |
| MAXIMUM PEAK FLOW | | | 3570 | Mar 19 | b12100 | Feb 23 2001 |
| MAXIMUM PEAK STAGE | | | 11.16 | Mar 19 | d21.21 | Oct 19 1993 |
| ANNUAL RUNOFF (AC-FT) | 10760 | | 3330 | | 11490 | |
| 10 PERCENT EXCEEDS | 17 | | 7.1 | | 21 | |
| 50 PERCENT EXCEEDS | 1.0 | | 0.96 | | 1.9 | |
| 90 PERCENT EXCEEDS | 0.23 | | 0.05 | | 0.10 | |

e Estimated
b After channel rectification, which occurred Nov. 1995 to Mar. 1997, peak gage-height, 17.30 ft.
d Prior to channel rectification, which occurred Nov. 1995 to Mar. 1997, peak discharge, 7,760 $ft^3$.

08044800 Walnut Creek at Reno, TX--Continued



## 08045000 Eagle Mountain Reservoir above Fort Worth, TX

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.

DRAINAGE AREA.--1,970 $mi^2$.

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

REVISED RECORDS.--WSP 1922: Drainage area.

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.

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by two sections of rolled earthfill and a concrete spillway separated by high natural ground. Total length of the dam including spillway is 4,800 ft. The dam was completed Oct. 24, 1932, and storage began Feb. 24, 1934. The spillway is a 1,300-foot-wide cut through natural ground located between the two sections of earthfill that make up the dam. The original service spillway, located in the section to the right of the main dam, contains a concrete spillway with four 25-foot bays, three are equipped with vertical lift gates and the fourth is left open. In 1971, a side-channel spillway was constructed. The newest spillway is located 300 ft to the left of the original service spillway and has six 11.25 x 22-foot-wide roller lift gates. The main section of the dam contains the outlet works that consist of two concrete conduits with two 48-inch diameter valves in each conduit. The dam is owned by the Tarrant Regional Water District. The reservoir is used for flood control and for part of the municipal water supply for the city of Fort Worth. Flow from 91.2 $mi^2$ above station is affected at times by discharge from the flood-detention pools of 36 floodwater-retarding structures with a total combined detention capacity of 24,450 acre-ft in the Big Sandy and Salt Creek drainage basins. Conservation pool storage is 190,300 acre-ft. Data regarding the dam are given in the following table:

| | 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 |

COOPERATION.--Capacity table, No. 4-C, furnished by Tarrant Regional Water District, was put into use Oct. 1, 1988.

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, 181,800 acre-ft, May 13, elevation, 649.47 ft; minimum contents, 141,200 acre-ft, Mar. 14, 18, elevation, 644.59 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 152200 | 148100 | 146000 | 145800 | 143600 | 142900 | 167800 | 177500 | 178600 | 175600 | 164600 | 147900 |
| 2 | 151900 | 148100 | 146000 | 145600 | 143500 | 143300 | 169300 | 177600 | 178200 | 175600 | 164100 | 147500 |
| 3 | 151700 | 148100 | 146000 | 145300 | 143500 | 142900 | 169600 | 177700 | 178000 | 175900 | 163400 | 147100 |
| 4 | 151500 | 148100 | 146100 | 145000 | 143400 | 142700 | 169400 | 177600 | 177700 | 176100 | 162700 | 146700 |
| 5 | 151600 | 147900 | 146100 | 145400 | 143700 | 142500 | 169400 | 178400 | 177900 | 176100 | 162100 | 146400 |
| 6 | 151200 | 147800 | 146100 | 145300 | 144000 | 142600 | 169400 | 178500 | 178600 | 176600 | 161400 | 146000 |
| 7 | 150900 | 147600 | 145900 | 145000 | 144000 | 142700 | 170500 | 178200 | 179900 | 176700 | 160700 | 145600 |
| 8 | 150600 | 147600 | 145700 | 144800 | 143900 | 142700 | 173400 | 178100 | 180000 | 176600 | 160000 | 145300 |
| 9 | 150600 | 147400 | 145000 | 144600 | 144000 | 142900 | 175700 | 178300 | 179400 | 176300 | 159200 | 145300 |
| 10 | 150700 | 147200 | 144700 | 144400 | 144100 | 142400 | 178000 | 178400 | 178900 | 176000 | 158500 | 145300 |
| 11 | 151400 | 147200 | 144600 | 144100 | 143700 | 142100 | 179400 | 179000 | 178600 | 175600 | 158000 | 145300 |
| 12 | 151600 | 147300 | 144900 | 143800 | 143600 | 142100 | 179800 | 180600 | 178500 | 175100 | 157600 | 145200 |
| 13 | 152100 | 147300 | 144900 | 143500 | 143600 | 141700 | 180100 | 181100 | 178400 | 174800 | 157100 | 145100 |
| 14 | 151800 | 147300 | 144700 | 143500 | 143200 | 141600 | 180200 | 180100 | 178500 | 174800 | 157100 | 145100 |
| 15 | 151800 | 147300 | 144800 | 143400 | 143300 | 141700 | 179300 | 179400 | 178200 | 174500 | 156600 | 145300 |
| 16 | 151300 | 147400 | 146400 | 143500 | 143000 | 141400 | 178500 | 178800 | 178700 | 174200 | 156000 | 145100 |
| 17 | 150700 | 147800 | 147600 | 143500 | 143000 | 141400 | 178700 | 179400 | 178600 | 173900 | 155400 | 144900 |
| 18 | 150200 | 147800 | 147800 | 143500 | 143000 | 141600 | 178600 | 179600 | 178400 | 173500 | 154800 | e144500 |
| 19 | 150000 | 147900 | 148000 | 143700 | 143500 | 144200 | 178700 | 179000 | 178100 | 173000 | 154200 | e145000 |
| 20 | 149700 | 147400 | 147700 | 143600 | 143500 | 153700 | 178600 | 178600 | 177900 | 172500 | 153800 | e144700 |
| 21 | 149400 | 147100 | 147600 | 143600 | 143700 | 157600 | 178600 | 178300 | 177700 | 171900 | 153200 | e144300 |
| 22 | 149400 | 146900 | 147600 | 143700 | 143700 | 161500 | 178300 | 177900 | 177400 | 171400 | 152700 | e144000 |
| 23 | 149400 | 146700 | 147400 | 143800 | 143600 | 163800 | 178100 | 177700 | 177100 | 170800 | 152100 | 143700 |
| 24 | 149400 | 146600 | 147200 | 144100 | 143400 | 164500 | 178300 | 177700 | 176900 | 170200 | 151500 | 143300 |
| 25 | 149000 | 146300 | 147000 | 143900 | 143800 | 165200 | 178100 | 177700 | 176600 | 169500 | 150900 | 143000 |
| 26 | 148800 | 146300 | 146800 | 143700 | 143500 | 165000 | 177800 | 178300 | 176200 | 168800 | 150400 | 142800 |
| 27 | 148700 | 146200 | 146700 | 143600 | 143000 | 165200 | 177700 | 178700 | 175900 | 167800 | 149900 | 142500 |
| 28 | 148400 | 146300 | 146600 | 143500 | 142900 | 165300 | 177900 | 179100 | 175700 | 166900 | 149500 | 142200 |
| 29 | 148300 | 145900 | 146500 | 143400 | --- | 165500 | 177800 | 179400 | 175300 | 166300 | 149100 | 141900 |
| 30 | 148200 | 145800 | 146200 | 143400 | --- | 165900 | 177600 | 179100 | 174900 | 165800 | 148700 | 141600 |
| 31 | 148100 | --- | 146000 | 143800 | --- | 166500 | --- | 178900 | --- | 165300 | 148300 | --- |

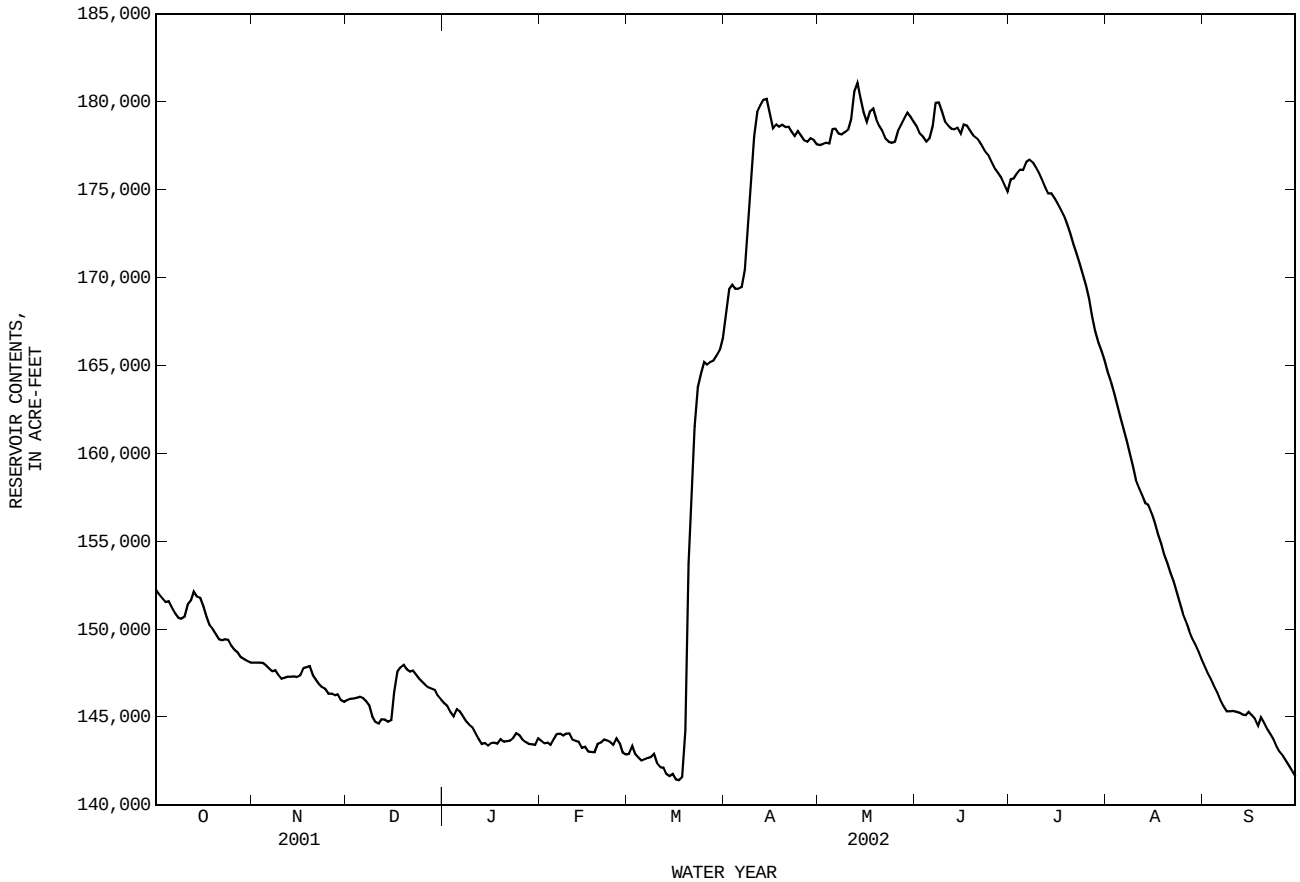
08045000 Eagle Mountain Reservoir above Fort Worth, TX--Continued

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 150300 | 147200 | 146300 | 144100 | 143500 | 150500 | 176200 | 178700 | 177800 | 172800 | 155900 | 144800 |
| MAX | 152200 | 148100 | 148000 | 145800 | 144100 | 166500 | 180200 | 181100 | 180000 | 176700 | 164600 | 147900 |
| MIN | 148100 | 145800 | 144600 | 143400 | 142900 | 141400 | 167800 | 177500 | 174900 | 165300 | 148300 | 141600 |
| (+) | 645.49 | 645.20 | 645.22 | 644.94 | 644.82 | 647.74 | 649.01 | 649.15 | 648.71 | 647.60 | 645.52 | 644.65 |
| (@) | -4100 | -2300 | +200 | -2200 | -900 | +23600 | +11100 | +1300 | -4000 | -9600 | -17000 | -6700 |

CAL YR 2001 MAX 188700 MIN 113400 (@) +32700
WTR YR 2002 MAX 181100 MIN 141400 (@) -10600

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.



## 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 and at river mile 572.0.

DRAINAGE AREA.--2,064 $mi^2$.

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 poor. 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.

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, 38,550 acre-ft, Apr. 16, elevation, 594.41 ft; minimum contents, 32,050 acre-ft, Sept. 18, elevation, 592.48 ft.

RESERVOIR STORAGE FROM EDL/DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

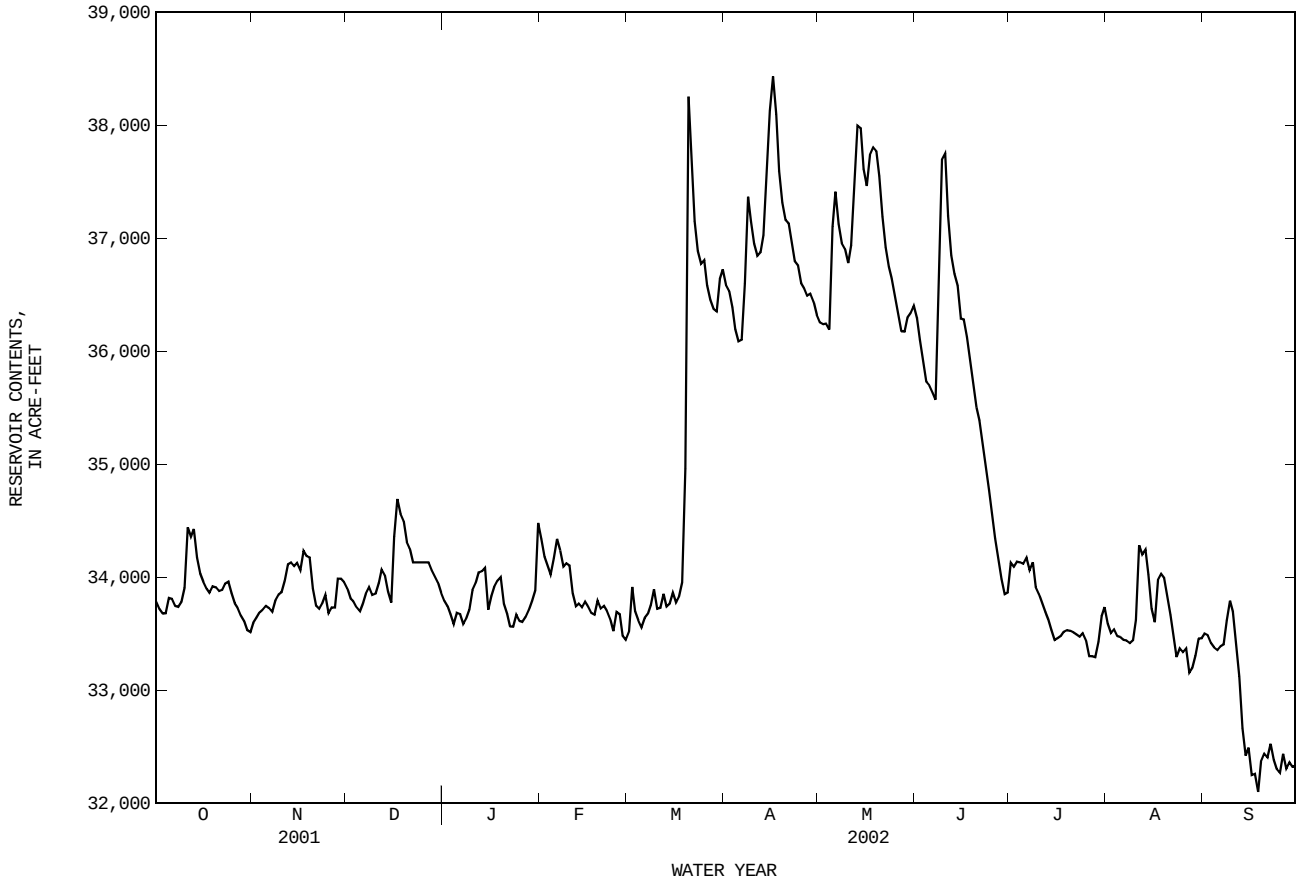
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33780 | 33590 | 33900 | e33790 | 34340 | 33520 | 36580 | 36250 | 36290 | 34130 | 33590 | 33500 |
| 2 | 33720 | 33640 | 33810 | e33740 | 34180 | 33910 | 36530 | 36240 | 36100 | 34090 | 33500 | 33480 |
| 3 | 33680 | 33690 | 33780 | 33670 | 34100 | 33700 | 36390 | 36240 | 35920 | 34140 | 33540 | 33410 |
| 4 | 33680 | 33710 | 33730 | 33580 | 34020 | 33620 | 36190 | 36190 | 35730 | 34130 | 33480 | 33380 |
| 5 | 33810 | 33740 | 33700 | 33680 | 34170 | 33550 | 36080 | 37100 | 35690 | 34110 | 33470 | 33350 |
| 6 | 33810 | 33730 | 33770 | 33670 | 34340 | 33640 | 36100 | 37410 | 35630 | e34170 | 33440 | 33380 |
| 7 | 33740 | 33690 | 33850 | 33580 | 34230 | 33670 | 36600 | 37120 | 35570 | e34060 | 33440 | 33400 |
| 8 | 33740 | 33790 | 33910 | 33630 | 34090 | 33750 | 37370 | 36950 | 36580 | e34130 | 33420 | 33620 |
| 9 | 33770 | 33840 | 33840 | 33710 | 34120 | 33890 | 37150 | 36900 | 37690 | e33910 | 33440 | 33790 |
| 10 | 33900 | 33860 | 33850 | 33880 | 34100 | 33720 | 36950 | 36780 | 37750 | 33850 | 33620 | 33690 |
| 11 | 34440 | 33970 | 33950 | 33950 | 33850 | 33730 | 36840 | 36930 | 37200 | 33770 | 34280 | 33420 |
| 12 | 34360 | 34110 | 34070 | 34040 | 33740 | 33850 | 36880 | 37400 | 36850 | 33690 | 34200 | 33120 |
| 13 | 34420 | 34130 | 34020 | 34050 | 33760 | 33740 | 37020 | 38000 | 36680 | 33630 | 34240 | 32660 |
| 14 | 34170 | 34100 | 33870 | e34080 | 33730 | 33760 | 37570 | 37970 | 36580 | 33530 | 34020 | 32420 |
| 15 | 34030 | 34130 | 33770 | e33710 | 33780 | 33860 | 38130 | 37610 | 36290 | 33440 | 33720 | 32490 |
| 16 | 33960 | 34060 | 34350 | 33830 | 33740 | 33770 | 38430 | 37460 | 36280 | 33460 | 33600 | 32250 |
| 17 | 33900 | 34230 | 34690 | 33910 | 33680 | 33820 | 38100 | 37740 | 36120 | 33480 | 33970 | 32260 |
| 18 | 33860 | 34180 | 34560 | 33970 | 33660 | 33950 | 37600 | 37800 | 35910 | 33510 | 34030 | 32100 |
| 19 | 33920 | 34170 | 34500 | 34000 | 33790 | 34960 | 37310 | e37770 | 35690 | 33530 | 33990 | 32370 |
| 20 | 33910 | 33900 | 34310 | 33760 | 33720 | 38250 | 37160 | 37550 | 35500 | 33520 | 33830 | 32430 |
| 21 | 33870 | 33750 | e34250 | 33670 | 33740 | 37670 | 37130 | 37190 | 35390 | 33510 | 33660 | 32400 |
| 22 | 33880 | 33720 | e34130 | 33560 | 33700 | 37150 | 36970 | 36920 | 35170 | 33490 | 33480 | 32520 |
| 23 | 33940 | 33770 | e34130 | 33560 | 33630 | 36880 | 36800 | 36740 | 34970 | 33470 | 33290 | 32380 |
| 24 | 33960 | 33840 | e34130 | 33670 | 33520 | 36770 | 36760 | 36640 | 34770 | 33500 | 33370 | 32300 |
| 25 | 33860 | 33680 | e34130 | 33610 | 33690 | 36800 | 36600 | 36490 | 34550 | 33440 | 33330 | 32260 |
| 26 | 33770 | 33730 | e34130 | 33600 | 33670 | 36580 | 36550 | 36340 | 34340 | 33300 | 33370 | 32430 |
| 27 | 33730 | 33730 | e34130 | 33650 | 33480 | 36450 | 36490 | 36170 | 34160 | 33300 | 33150 | 32300 |
| 28 | 33660 | 33990 | e34060 | 33710 | 33440 | 36370 | 36510 | 36170 | 33980 | 33290 | 33190 | 32360 |
| 29 | 33610 | 33990 | e34000 | 33790 | --- | 36350 | 36430 | 36290 | 33850 | 33430 | 33300 | 32320 |
| 30 | 33530 | 33950 | e33950 | 33880 | --- | 36640 | 36320 | 36330 | 33860 | 33650 | 33450 | 32320 |
| 31 | 33510 | --- | e33860 | 34480 | --- | 36720 | --- | 36400 | --- | 33730 | 33460 | --- |
| MAX | 34440 | 34230 | 34690 | 34480 | 34340 | 38250 | 38430 | 38000 | 37750 | 34170 | 34280 | 33790 |
| MIN | 33510 | 33590 | 33700 | 33560 | 33440 | 33520 | 36080 | 36170 | 33850 | 33290 | 33150 | 32100 |
| (+) | 592.94 | 593.08 | e 93.05 | 593.23 | 592.92 | 593.90 | 593.78 | 593.80 | 593.05 | 593.01 | 592.93 | 592.57 |
| (@) | -310 | +440 | -90 | +620 | -1040 | +3280 | -400 | +80 | -2540 | -130 | -270 | -1140 |

CAL YR 2001 MAX 42200 MIN 29410 (@) +3350
WTR YR 2002 MAX 38430 MIN 32100 (@) -1500

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08045400 Lake Worth above Fort Worth, TX--Continued



## 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 US 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 $mi^2$.

PERIOD OF RECORD.--Jul. 1998 to current year (gage height).

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

REMARKS.--Records good. No known regulation or diversions.

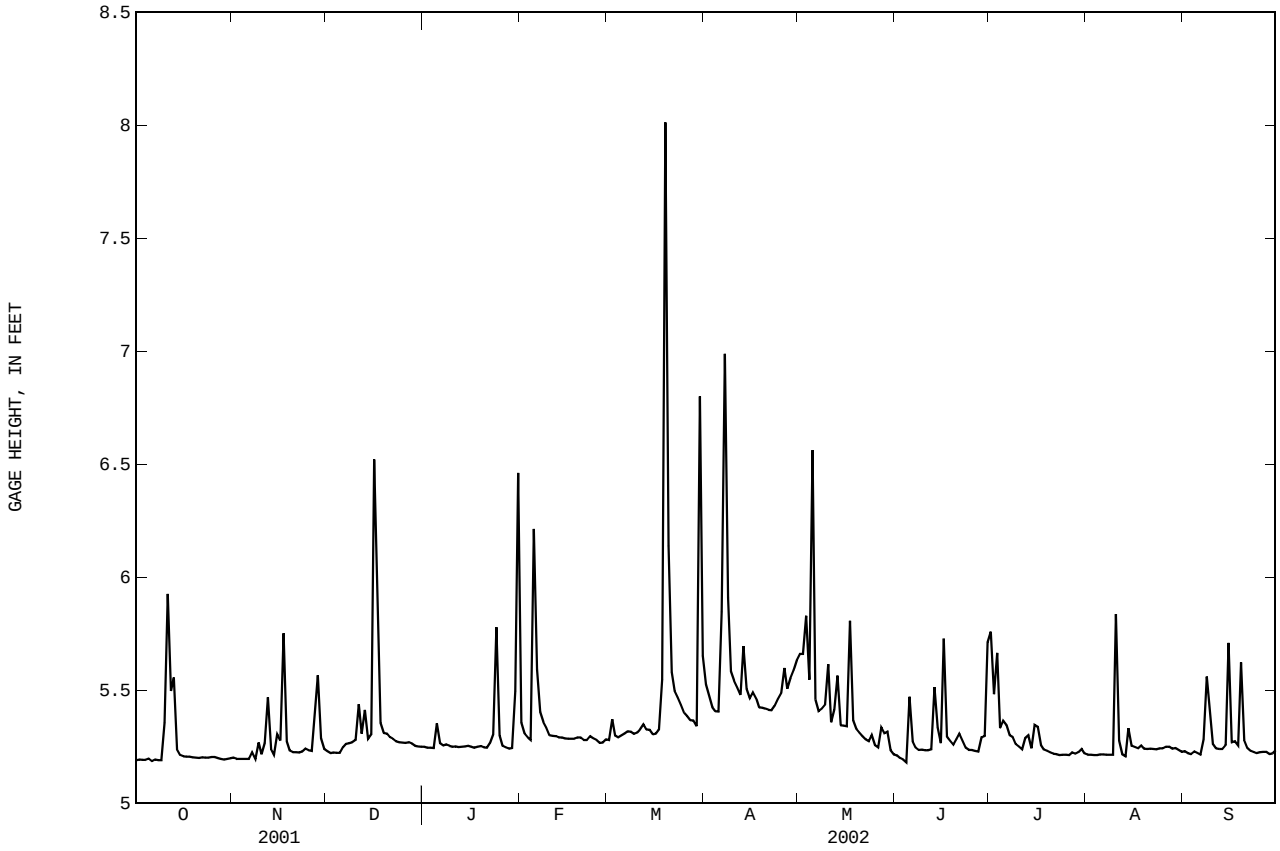
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.70, Jun. 4, 2000, at 0015 hours; minimum gage height, 4.36, Jun. 20, 2000, at 0515 hours.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.47 ft, Mar. 19; minimum gage height, 5.16 ft, June 3, 4, 5.

GAGE HEIGHT FROM DCP, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.19 | 5.20 | 5.23 | 5.25 | 5.36 | 5.28 | 5.52 | 5.66 | 5.21 | 5.76 | 5.21 | 5.23 |
| 2 | 5.19 | 5.19 | 5.22 | 5.24 | 5.31 | 5.37 | 5.47 | 5.66 | 5.20 | 5.48 | 5.21 | 5.22 |
| 3 | 5.19 | 5.19 | 5.22 | 5.24 | 5.29 | 5.30 | 5.42 | 5.83 | 5.19 | 5.66 | 5.21 | 5.22 |
| 4 | 5.19 | 5.20 | 5.22 | 5.24 | 5.28 | 5.29 | 5.41 | 5.54 | 5.18 | 5.33 | 5.21 | 5.23 |
| 5 | 5.20 | 5.20 | 5.22 | 5.35 | 6.21 | 5.30 | 5.40 | 6.56 | 5.47 | 5.36 | 5.21 | 5.22 |
| 6 | 5.19 | 5.19 | 5.25 | 5.26 | 5.59 | 5.31 | 5.85 | 5.46 | 5.27 | 5.35 | 5.22 | 5.21 |
| 7 | 5.19 | 5.22 | 5.26 | 5.25 | 5.40 | 5.32 | 6.99 | 5.41 | 5.25 | 5.30 | 5.21 | 5.28 |
| 8 | 5.19 | 5.20 | 5.26 | 5.26 | 5.36 | 5.32 | 5.91 | 5.42 | 5.24 | 5.29 | 5.21 | 5.56 |
| 9 | 5.19 | 5.27 | 5.27 | 5.25 | 5.33 | 5.30 | 5.58 | 5.43 | 5.24 | 5.26 | 5.21 | 5.40 |
| 10 | 5.36 | 5.21 | 5.28 | 5.25 | 5.30 | 5.31 | 5.54 | 5.61 | 5.23 | 5.25 | 5.84 | 5.26 |
| 11 | 5.92 | 5.26 | 5.44 | 5.25 | 5.30 | 5.33 | 5.51 | 5.36 | 5.23 | 5.24 | 5.28 | 5.24 |
| 12 | 5.50 | 5.47 | 5.31 | 5.25 | 5.30 | 5.35 | 5.48 | 5.41 | 5.24 | 5.29 | 5.22 | 5.24 |
| 13 | 5.55 | 5.24 | 5.41 | 5.25 | 5.29 | 5.33 | 5.69 | 5.56 | 5.51 | 5.30 | 5.21 | 5.24 |
| 14 | 5.24 | 5.21 | 5.28 | 5.25 | 5.29 | 5.32 | 5.50 | 5.34 | 5.33 | 5.24 | 5.33 | 5.26 |
| 15 | 5.21 | 5.30 | 5.30 | 5.25 | 5.29 | 5.30 | 5.46 | 5.34 | 5.26 | 5.35 | 5.25 | 5.71 |
| 16 | 5.21 | 5.28 | 6.52 | 5.25 | 5.28 | 5.31 | 5.49 | 5.34 | 5.73 | 5.34 | 5.25 | 5.27 |
| 17 | 5.20 | 5.75 | 5.78 | 5.24 | 5.28 | 5.32 | 5.46 | 5.81 | 5.29 | 5.26 | 5.24 | 5.27 |
| 18 | 5.20 | 5.27 | 5.35 | 5.25 | 5.28 | 5.54 | 5.42 | 5.36 | 5.27 | 5.24 | 5.26 | 5.25 |
| 19 | 5.20 | 5.23 | 5.31 | 5.25 | 5.29 | 8.01 | 5.42 | 5.33 | 5.26 | 5.23 | 5.24 | 5.62 |
| 20 | 5.20 | 5.22 | 5.31 | 5.25 | 5.29 | 6.14 | 5.42 | 5.31 | 5.28 | 5.22 | 5.24 | 5.28 |
| 21 | 5.20 | 5.22 | 5.29 | 5.24 | 5.28 | 5.58 | 5.41 | 5.29 | 5.31 | 5.22 | 5.24 | 5.24 |
| 22 | 5.20 | 5.22 | 5.28 | 5.26 | 5.28 | 5.50 | 5.41 | 5.28 | 5.28 | 5.22 | 5.24 | 5.23 |
| 23 | 5.20 | 5.23 | 5.27 | 5.30 | 5.30 | 5.47 | 5.43 | 5.27 | 5.24 | 5.21 | 5.24 | 5.22 |
| 24 | 5.20 | 5.24 | 5.27 | 5.78 | 5.29 | 5.43 | 5.46 | 5.30 | 5.23 | 5.21 | 5.24 | 5.22 |
| 25 | 5.20 | 5.23 | 5.27 | 5.30 | 5.28 | 5.40 | 5.49 | 5.26 | 5.23 | 5.21 | 5.24 | 5.22 |
| 26 | 5.20 | 5.23 | 5.27 | 5.25 | 5.27 | 5.38 | 5.60 | 5.25 | 5.23 | 5.21 | 5.25 | 5.23 |
| 27 | 5.20 | 5.40 | 5.27 | 5.25 | 5.27 | 5.37 | 5.51 | 5.34 | 5.23 | 5.22 | 5.25 | 5.23 |
| 28 | 5.20 | 5.56 | 5.26 | 5.24 | 5.28 | 5.36 | 5.55 | 5.31 | 5.29 | 5.22 | 5.24 | 5.22 |
| 29 | 5.19 | 5.29 | 5.25 | 5.24 | --- | 5.34 | 5.59 | 5.32 | 5.30 | 5.22 | 5.24 | 5.22 |
| 30 | 5.20 | 5.24 | 5.25 | 5.49 | --- | 6.80 | 5.63 | 5.23 | 5.71 | 5.24 | 5.23 | 5.23 |
| 31 | 5.20 | --- | 5.25 | 6.46 | --- | 5.65 | --- | 5.21 | --- | 5.22 | 5.23 | --- |
| MEAN | 5.25 | 5.27 | 5.33 | 5.32 | 5.34 | 5.53 | 5.57 | 5.45 | 5.30 | 5.30 | 5.25 | 5.28 |
| MAX | 5.92 | 5.75 | 6.52 | 6.46 | 6.21 | 8.01 | 6.99 | 6.56 | 5.73 | 5.76 | 5.84 | 5.71 |
| MIN | 5.19 | 5.19 | 5.22 | 5.24 | 5.27 | 5.28 | 5.40 | 5.21 | 5.18 | 5.21 | 5.21 | 5.21 |

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 $mi^2$.

PERIOD OF RECORD.--June 1976 to May 1980, Aug. 1998 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 fair except those for estimated daily contents, which are poor. 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 $mi^2$ 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. Records furnished by the city of Weatherford show that 1,030 acre-ft was diverted from the lake for municipal use during the period Oct. to Apr. and 869 acre-ft of sewage effluent was returned to a tributary downstream from station. Conservation pool storage is 18,650 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 |

COOPERATION.--The capacity table was furnished by the Texas Water Development Board and designated Table 1.

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 contents, 18,200 acre-ft, May 12, elevation, 895.60 ft; minimum contents, 13,600 acre-ft, Mar. 16, elevation, 891.21 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

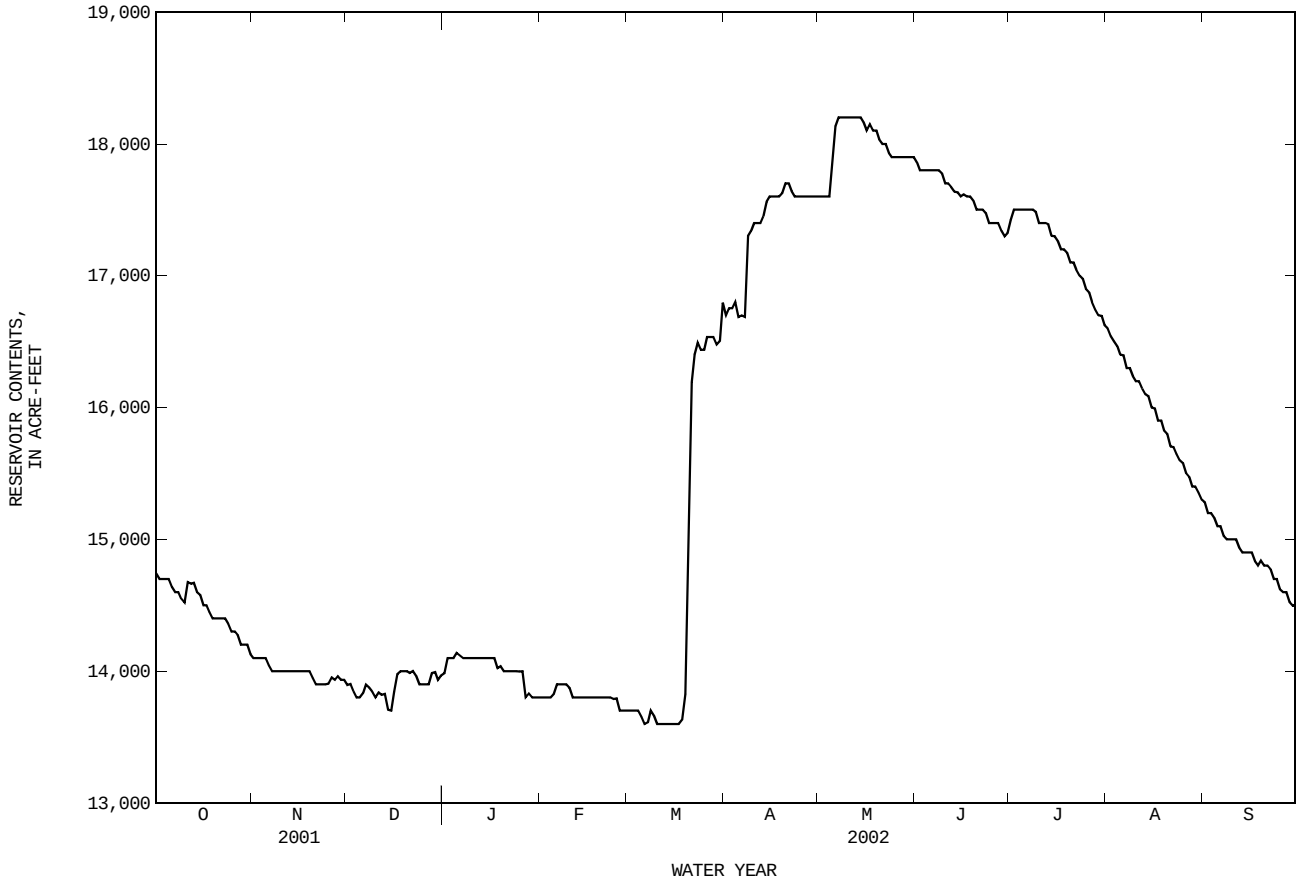
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14700 | 14100 | e13900 | e14000 | 13800 | 13700 | e16700 | 17600 | 17900 | 17400 | 16600 | 15300 |
| 2 | 14700 | 14100 | e13900 | e14100 | 13800 | 13700 | e16800 | 17600 | 17800 | 17500 | 16500 | 15200 |
| 3 | 14700 | 14100 | e13800 | 14100 | 13800 | 13700 | e16800 | 17600 | 17800 | 17500 | 16500 | 15200 |
| 4 | 14700 | 14100 | e13800 | 14100 | 13800 | 13700 | e16800 | 17600 | 17800 | 17500 | 16500 | 15200 |
| 5 | 14700 | 14100 | e13800 | 14100 | 13800 | 13700 | e16700 | 17900 | 17800 | 17500 | 16400 | 15100 |
| 6 | 14600 | 14000 | e13800 | 14100 | 13900 | 13600 | e16700 | 18100 | 17800 | 17500 | 16400 | 15100 |
| 7 | 14600 | 14000 | e13900 | 14100 | 13900 | 13600 | e16700 | 18200 | 17800 | 17500 | 16300 | 15000 |
| 8 | 14600 | 14000 | e13900 | 14100 | 13900 | 13700 | e17300 | 18200 | 17800 | 17500 | 16300 | 15000 |
| 9 | 14500 | 14000 | e13800 | 14100 | 13900 | 13700 | 17300 | 18200 | 17800 | 17500 | 16200 | 15000 |
| 10 | 14500 | 14000 | e13800 | 14100 | 13900 | 13600 | 17400 | 18200 | 17700 | 17400 | 16200 | 15000 |
| 11 | 14700 | 14000 | e13800 | 14100 | 13800 | 13600 | 17400 | 18200 | 17700 | 17400 | 16200 | 15000 |
| 12 | 14700 | 14000 | e13800 | 14100 | 13800 | 13600 | 17400 | 18200 | 17700 | 17400 | 16100 | 14900 |
| 13 | 14700 | 14000 | e13800 | 14100 | 13800 | 13600 | 17500 | 18200 | 17600 | 17400 | 16100 | 14900 |
| 14 | 14600 | 14000 | e13700 | 14100 | 13800 | 13600 | 17600 | 18200 | 17600 | 17300 | 16100 | 14900 |
| 15 | 14600 | 14000 | 13700 | 14100 | 13800 | 13600 | 17600 | 18200 | 17600 | 17300 | 16000 | 14900 |
| 16 | 14500 | 14000 | 13800 | 14100 | 13800 | 13600 | 17600 | 18100 | 17600 | 17300 | 16000 | 14900 |
| 17 | 14500 | 14000 | 14000 | 14100 | 13800 | 13600 | 17600 | 18100 | 17600 | 17200 | 15900 | 14800 |
| 18 | 14400 | 14000 | 14000 | 14000 | 13800 | 13600 | 17600 | 18100 | 17600 | 17200 | 15900 | 14800 |
| 19 | 14400 | 14000 | 14000 | 14000 | 13800 | 13800 | 17600 | 18100 | 17600 | 17200 | 15800 | 14800 |
| 20 | 14400 | 13900 | 14000 | 14000 | 13800 | e15200 | 17700 | 18000 | 17500 | 17100 | 15800 | 14800 |
| 21 | 14400 | 13900 | 14000 | 14000 | 13800 | e16200 | 17700 | 18000 | 17500 | 17100 | 15700 | 14800 |
| 22 | 14400 | 13900 | 14000 | 14000 | 13800 | e16400 | 17600 | 18000 | 17500 | 17000 | 15700 | 14800 |
| 23 | 14400 | 13900 | 14000 | e14000 | 13800 | e16500 | 17600 | 17900 | 17500 | 17000 | 15600 | 14700 |
| 24 | 14400 | 13900 | 13900 | e14000 | 13800 | e16400 | 17600 | 17900 | 17400 | 17000 | 15600 | 14700 |
| 25 | 14300 | 13900 | 13900 | e14000 | 13800 | e16400 | 17600 | 17900 | 17400 | 16900 | 15600 | 14600 |
| 26 | 14300 | e14000 | 13900 | e14000 | 13700 | e16500 | 17600 | 17900 | 17400 | 16900 | 15500 | 14600 |
| 27 | 14300 | e13900 | e13900 | e13800 | 13700 | e16500 | 17600 | 17900 | 17400 | 16800 | 15500 | 14600 |
| 28 | 14200 | e14000 | e14000 | e13800 | 13700 | e16500 | 17600 | 17900 | 17300 | 16700 | 15400 | 14500 |
| 29 | 14200 | e13900 | e14000 | 13800 | --- | e16500 | 17600 | 17900 | 17300 | 16700 | 15400 | 14500 |
| 30 | 14200 | e13900 | e13900 | 13800 | --- | e16500 | 17600 | 17900 | 17300 | 16700 | 15400 | 14500 |
| 31 | 14100 | --- | e14000 | 13800 | --- | e16800 | --- | 17900 | --- | 16600 | 15300 | --- |
| MEAN | 14500 | 14000 | 13900 | 14000 | 13800 | 14700 | 17400 | 18000 | 17600 | 17200 | 16000 | 14900 |
| MAX | 14700 | 14100 | 14000 | 14100 | 13900 | 16800 | 17700 | 18200 | 17900 | 17500 | 16600 | 15300 |
| MIN | 14100 | 13900 | 13700 | 13800 | 13700 | 13600 | 16700 | 17600 | 17300 | 16600 | 15300 | 14500 |
| (+) | 891.79 | 891.57 | 891.59 | 891.45 | 891.32 | 894.31 | 895.04 | 895.28 | 894.78 | 894.17 | 892.94 | 892.13 |
| (@) | -500 | -200 | +100 | -200 | -100 | +3100 | +800 | +300 | -600 | -700 | -1300 | -800 |

CAL YR 2001 MAX 20000 MIN 13700 (@) -700
WTR YR 2002 MAX 18200 MIN 13600 (@) -100

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08045800 Lake Weatherford near Weatherford, TX--Continued



## 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 $mi^2$.

PERIOD OF RECORD.--May 1980 to Sept. 1985, 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 fair. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.03 | 1.3 | 2.2 | 1.8 | 1.5 | 1.5 | 2.3 | 1.3 | 1.0 | 17 | 0.47 | 0.23 |
| 2 | 0.03 | 1.4 | 2.5 | 1.8 | 1.7 | 1.6 | 2.2 | 1.2 | 1.2 | 6.6 | 0.38 | 0.22 |
| 3 | 0.02 | 1.4 | 1.9 | 1.8 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | 3.5 | 0.35 | 0.20 |
| 4 | 0.03 | 1.3 | 2.2 | 1.6 | 1.7 | 1.5 | 1.6 | 1.2 | 1.1 | 2.5 | 0.40 | 0.19 |
| 5 | 0.02 | 1.5 | 2.3 | 1.6 | 7.1 | 1.6 | 1.4 | 82 | 1.8 | 2.3 | 0.46 | 0.20 |
| 6 | 0.04 | 1.5 | 2.4 | 1.5 | 2.3 | 1.6 | 7.8 | 15 | 1.6 | 2.0 | 0.45 | 0.19 |
| 7 | 0.04 | 1.3 | 2.5 | 1.5 | 1.5 | 1.5 | 28 | 4.3 | 1.1 | 1.9 | 0.45 | 0.20 |
| 8 | 0.05 | 1.3 | 2.4 | 1.5 | 1.5 | 1.5 | 31 | 2.7 | 0.99 | 1.8 | 0.40 | 0.27 |
| 9 | 0.06 | 1.4 | 2.4 | 1.4 | 1.4 | 1.6 | 9.0 | 2.3 | 0.99 | 2.0 | 0.36 | 0.39 |
| 10 | 1.2 | 1.4 | 2.4 | 1.4 | 1.4 | 1.5 | 4.7 | 2.6 | 1.3 | 1.8 | 0.30 | 0.32 |
| 11 | 9.1 | 1.7 | 2.6 | 0.83 | 1.4 | 1.5 | 3.7 | 3.1 | 1.1 | 0.97 | 0.37 | 0.34 |
| 12 | 0.83 | 1.8 | 2.6 | 1.4 | 1.5 | 1.5 | 3.3 | 3.4 | 0.87 | 1.3 | 0.42 | 0.31 |
| 13 | 1.1 | 1.6 | 1.9 | 1.1 | 1.4 | 1.5 | 9.9 | 5.4 | 1.6 | 1.7 | 0.42 | 0.31 |
| 14 | 1.1 | 1.4 | 1.8 | 1.4 | 1.3 | 1.6 | 5.1 | 2.4 | 1.0 | 1.1 | 0.45 | 0.31 |
| 15 | 0.99 | 1.6 | 2.0 | 1.3 | 0.81 | 1.5 | 3.5 | 2.3 | 1.5 | 0.72 | 0.42 | 0.45 |
| 16 | 0.92 | 1.6 | 18 | 1.6 | 1.4 | 1.4 | 2.8 | 2.1 | 3.6 | 0.81 | 0.34 | 0.41 |
| 17 | 1.1 | 2.2 | 7.2 | 1.6 | 1.4 | 1.3 | 2.4 | 2.9 | 0.96 | 0.99 | 0.31 | 0.42 |
| 18 | 1.1 | 1.5 | 1.9 | 1.5 | 1.4 | 2.2 | 2.1 | 2.3 | 0.62 | 0.86 | 0.31 | 0.41 |
| 19 | 1.2 | 1.4 | 1.7 | 1.6 | 1.5 | 88 | 2.0 | 2.0 | 0.54 | 0.62 | 0.29 | 1.6 |
| 20 | 1.3 | 1.5 | 1.7 | 1.4 | 1.4 | 31 | 1.9 | 2.0 | 0.56 | 0.53 | 0.28 | 0.41 |
| 21 | 1.3 | e1.6 | 1.7 | 1.3 | 1.6 | 13 | 1.8 | 1.9 | 1.0 | 0.50 | 0.26 | 0.51 |
| 22 | 1.5 | 1.5 | 1.7 | 1.6 | 1.2 | 6.4 | 1.7 | 1.7 | 0.58 | 0.48 | 0.26 | 0.40 |
| 23 | 1.3 | 1.7 | 1.8 | 1.5 | 1.4 | 4.5 | 1.6 | 1.2 | 0.46 | 0.47 | 0.26 | 0.34 |
| 24 | 1.3 | 1.4 | 1.7 | 1.9 | 1.3 | 2.8 | 1.3 | 0.66 | 0.43 | 0.47 | 0.26 | 0.22 |
| 25 | 1.2 | 0.95 | 1.8 | 1.7 | 1.4 | 2.1 | 1.3 | 0.57 | 4.8 | 0.48 | 0.28 | 0.19 |
| 26 | 1.3 | 1.3 | 1.7 | 1.6 | 1.4 | 1.8 | 1.4 | 0.88 | 0.82 | 0.45 | 0.28 | 0.19 |
| 27 | 1.2 | 0.70 | 1.8 | 1.7 | 1.6 | 1.6 | 1.3 | 1.9 | 0.52 | 0.43 | 0.26 | 0.47 |
| 28 | 1.2 | 1.1 | 1.9 | 1.7 | 1.5 | 1.6 | 1.2 | 1.9 | 1.1 | 0.40 | 0.26 | 0.45 |
| 29 | 1.2 | 2.3 | 1.8 | 1.6 | --- | 1.7 | 1.2 | 2.0 | 1.3 | 0.39 | 0.26 | 0.46 |
| 30 | 1.3 | 3.5 | 1.8 | 1.4 | --- | 5.0 | 1.6 | 1.7 | 6.4 | 0.39 | 0.27 | 0.40 |
| 31 | 1.3 | --- | 1.8 | 3.3 | --- | 3.5 | --- | 1.4 | --- | 0.47 | 0.24 | --- |
| TOTAL | 34.36 | 46.15 | 84.1 | 48.93 | 46.61 | 190.9 | 140.8 | 157.91 | 42.34 | 55.93 | 10.52 | 11.01 |
| MEAN | 1.108 | 1.538 | 2.713 | 1.578 | 1.665 | 6.158 | 4.693 | 5.094 | 1.411 | 1.804 | 0.339 | 0.367 |
| MAX | 9.1 | 3.5 | 18 | 3.3 | 7.1 | 88 | 31 | 82 | 6.4 | 17 | 0.47 | 1.6 |
| MIN | 0.02 | 0.70 | 1.7 | 0.83 | 0.81 | 1.3 | 1.2 | 0.57 | 0.43 | 0.39 | 0.24 | 0.19 |
| AC-FT | 68 | 92 | 167 | 97 | 92 | 379 | 279 | 313 | 84 | 111 | 21 | 22 |

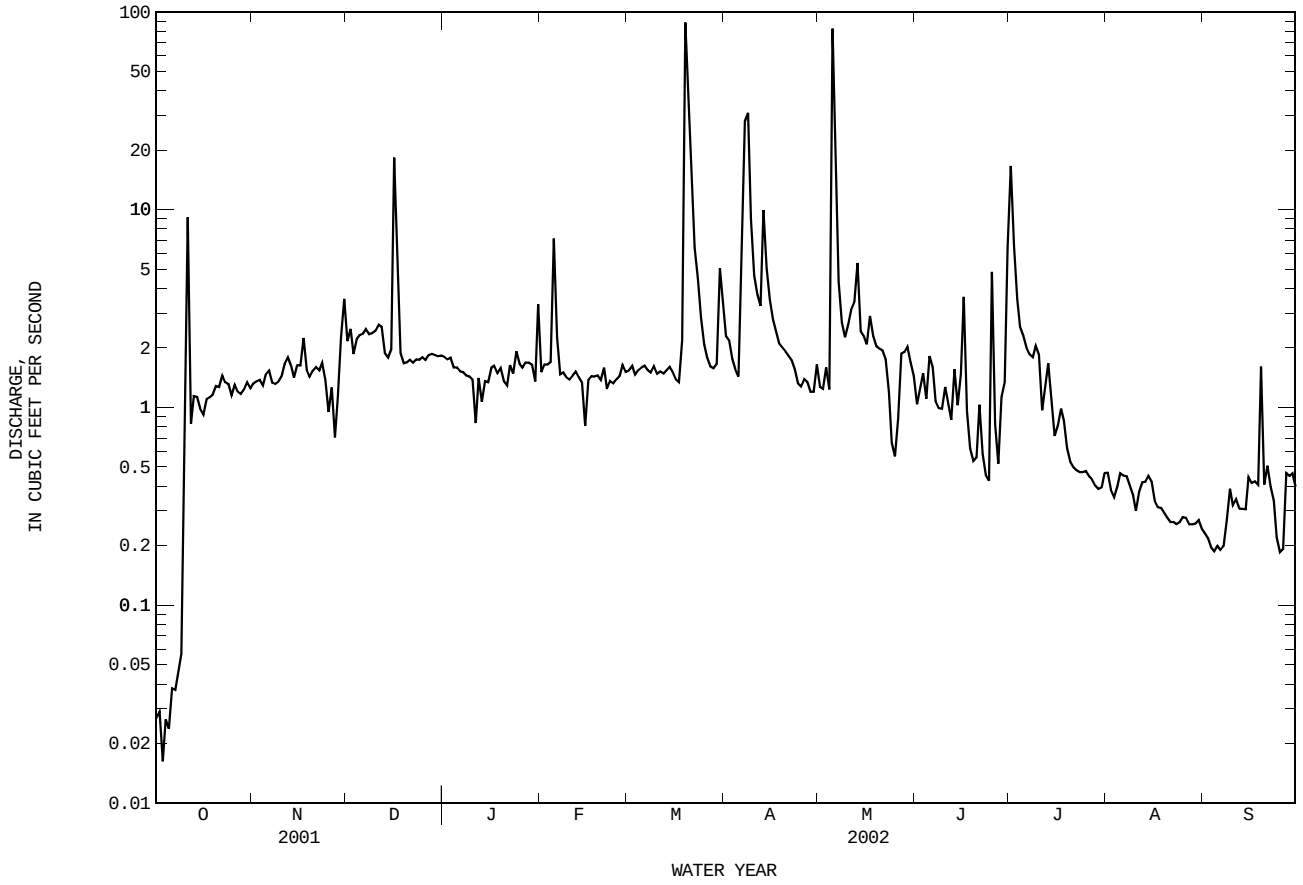
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 30.14 | 34.25 | 27.92 | 13.85 | 38.94 | 41.27 | 40.44 | 62.62 | 44.89 | 8.622 | 3.744 | 2.641 |
| 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 | 0.000 | 0.96 | 0.94 | 1.00 | 1.06 | 0.71 | 0.46 | 0.032 | 0.000 | 0.024 |
| (WY) | 2000 | 1985 | 1991 | 2000 | 2000 | 2000 | 2000 | 1984 | 1998 | 1998 | 1998 | 2001 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1980 - 2002h | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 10111.85 | | 869.56 | | | |
| ANNUAL MEAN | 27.70 | | 2.382 | | 29.39 | |
| HIGHEST ANNUAL MEAN | | | | | 106 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 0.91 | 1984 |
| HIGHEST DAILY MEAN | 583 | Feb 24 | 88 | Mar 19 | 3180 | Apr 27 1990 |
| LOWEST DAILY MEAN | 0.00 | Sep 1 | 0.02 | Oct 3 | 0.00 | Sep 12 1984 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Sep 7 | 0.03 | Oct 1 | 0.00 | Dec 26 1987 |
| MAXIMUM PEAK FLOW | | | a618 | Mar 19 | 3810 | Apr 27 1990 |
| MAXIMUM PEAK STAGE | | | a12.22 | Mar 19 | 22.07 | Apr 27 1990 |
| INSTANTANEOUS LOW FLOW | | | | | 0.00 | Sep 12 1984 |
| ANNUAL RUNOFF (AC-FT) | 20060 | | 1720 | | 21290 | |
| 10 PERCENT EXCEEDS | 91 | | 2.8 | | 50 | |
| 50 PERCENT EXCEEDS | 1.5 | | 1.4 | | 1.7 | |
| 90 PERCENT EXCEEDS | 0.07 | | 0.31 | | 0.48 | |

e Estimated
h See PERIOD OF RECORD paragraph.
a From floodmark.

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 $mi^2$.

PERIOD OF RECORD.--Sept. 1952 to Sept. 2000, (U.S. Army Corps of Engineers furnished contents), Oct. 2000 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 except those for estimated daily contents, which are fair. 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 capacity table is based on a survey made in 1945. 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 $mi^2$. Conservation pool storage is 85,650 acre-ft. 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 |

COOPERATION.--Capacity Table No. 4 was provided by the Texas Water Development Board, from a Jan. 1998 survey, and was put into use as of Oct. 1, 1999.

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 2001 WY YEAR.--Maximum contents, 117,400 acre-ft, Mar. 5, elevation, 701.60 ft; minimum contents, 47,730 acre-ft, Oct. 15, elevation, 681.80 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 105,000 acre-ft, Apr. 10, elevation, 698.84 ft; minimum contents, 65,740 acre-ft, Nov. 4, 5, 6, 7, 8, elevation, 688.10 ft.

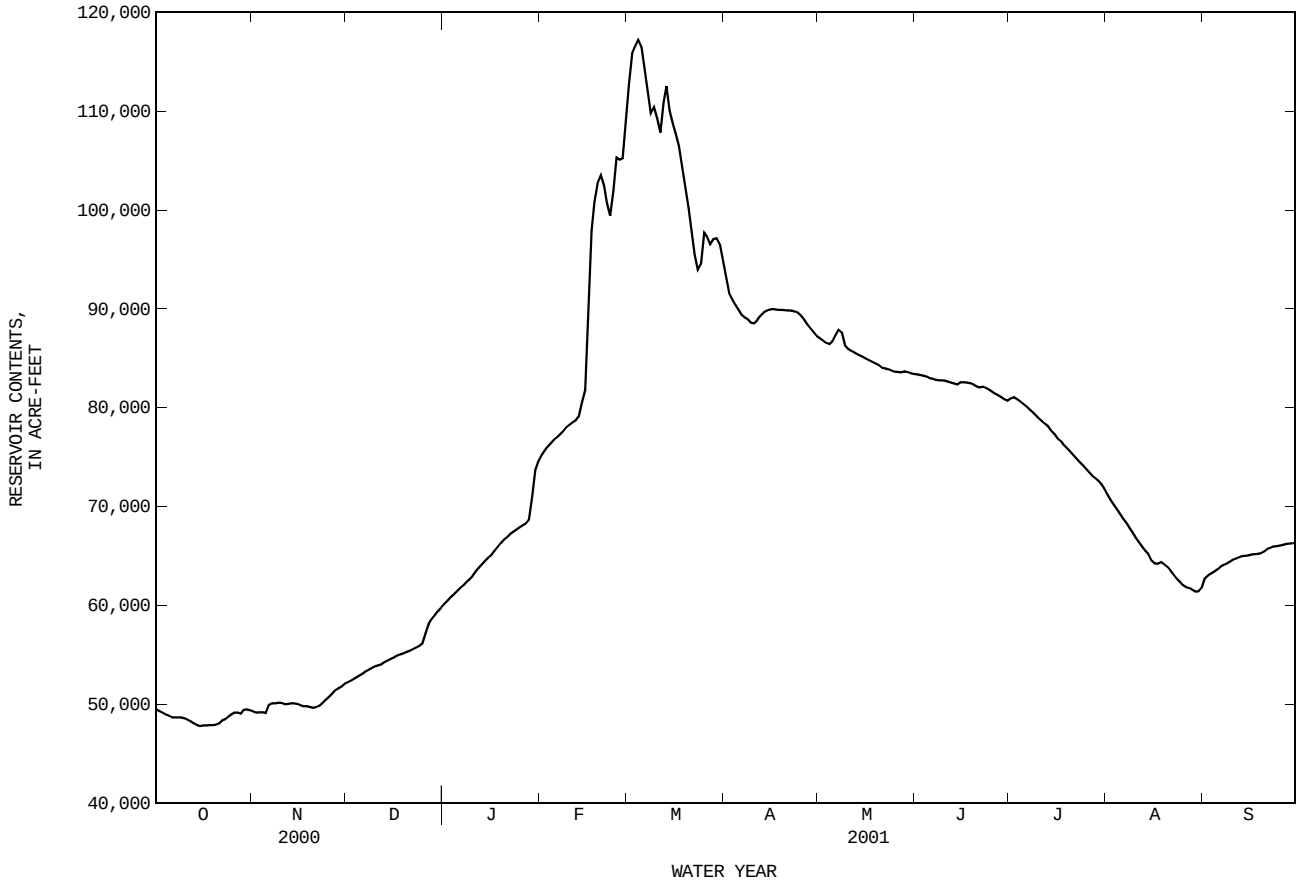
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 49510 | 49280 | 52210 | 60180 | 75130 | 112800 | 93280 | 87020 | 83390 | 80940 | 71180 | 62740 |
| 2 | 49300 | 49180 | 52370 | 60520 | 75630 | 115900 | 91610 | 86840 | 83330 | 81050 | 70630 | 63040 |
| 3 | 49130 | 49220 | 52550 | 60810 | 76060 | 116600 | 90970 | 86570 | 83280 | 80880 | 70160 | 63230 |
| 4 | 48970 | 49200 | 52740 | 61120 | 76410 | 117200 | 90470 | 86450 | 83160 | 80670 | 69710 | 63420 |
| 5 | 48850 | 49160 | 52940 | 61450 | 76750 | 116500 | 89940 | 86740 | 83010 | 80420 | 69240 | 63660 |
| 6 | 48700 | 49940 | 53130 | 61770 | 77030 | 114000 | 89420 | 87320 | 82930 | 80140 | 68770 | 63910 |
| 7 | 48680 | 50110 | 53340 | 62040 | 77340 | 111700 | 89120 | 87910 | 82840 | 79830 | 68340 | 64090 |
| 8 | 48690 | 50110 | 53510 | 62350 | 77650 | 109800 | 88920 | 87650 | 82790 | 79530 | 67830 | 64210 |
| 9 | 48680 | 50170 | 53700 | 62640 | 78020 | 110400 | 88610 | 86300 | 82780 | 79260 | 67340 | 64430 |
| 10 | 48590 | 50130 | 53860 | 62970 | 78260 | 109300 | 88550 | 85950 | 82750 | 78940 | 66840 | 64610 |
| 11 | 48440 | 50030 | 53960 | 63410 | 78500 | 107900 | 88850 | 85770 | 82650 | 78630 | 66390 | 64730 |
| 12 | 48260 | 50040 | 54050 | 63800 | 78730 | 110900 | 89330 | 85600 | 82560 | e78370 | 65960 | 64880 |
| 13 | 48080 | 50100 | 54290 | 64180 | 79110 | 112500 | 89610 | 85420 | 82460 | e78120 | 65530 | 65000 |
| 14 | 47920 | 50110 | 54450 | 64510 | 80560 | 110000 | 89810 | 85240 | 82370 | e77670 | e65230 | 65040 |
| 15 | 47810 | 50030 | 54620 | 64830 | 81780 | 108700 | 89950 | 85100 | 82600 | e77330 | e64540 | 65080 |
| 16 | 47870 | 49930 | 54760 | 65110 | 90020 | 107600 | 90020 | 84920 | 82590 | e76900 | 64280 | 65170 |
| 17 | 47880 | 49830 | 54930 | 65510 | 97940 | 106500 | 89950 | 84750 | 82560 | 76620 | 64220 | 65210 |
| 18 | 47920 | 49810 | 55060 | 65900 | 100900 | 104300 | 89910 | 84580 | 82500 | 76260 | 64410 | 65220 |
| 19 | 47920 | 49740 | 55170 | 66300 | 102700 | 102400 | 89910 | 84450 | 82350 | 75910 | 64210 | 65300 |
| 20 | 47950 | 49670 | 55340 | 66640 | 103500 | 100200 | 89890 | 84300 | 82160 | 75560 | 63930 | 65440 |
| 21 | 48070 | 49710 | 55430 | 66930 | 102500 | 97790 | 89840 | 84050 | 82060 | 75210 | 63530 | 65700 |
| 22 | 48380 | 49840 | 55590 | 67210 | 100700 | 95500 | 89840 | 83960 | 82140 | 74870 | 63100 | 65840 |
| 23 | 48490 | e50120 | 55740 | 67450 | 99430 | 93950 | 89730 | 83880 | 82000 | 74540 | 62740 | 65980 |
| 24 | 48740 | e50420 | 55890 | 67650 | 101900 | 94570 | 89600 | 83760 | 81830 | 74190 | 62410 | 66020 |
| 25 | 48990 | e50740 | 56130 | 67880 | 105300 | 97700 | 89320 | 83660 | 81640 | 73840 | 62060 | 66090 |
| 26 | 49180 | e51040 | 57170 | 68090 | 105100 | 97300 | 88890 | 83630 | 81430 | 73500 | 61870 | 66150 |
| 27 | 49170 | e51410 | 58140 | 68290 | 105200 | 96540 | 88430 | 83590 | 81250 | 73160 | 61780 | 66240 |
| 28 | 49040 | 51560 | 58650 | 68650 | 108700 | 97060 | 88030 | 83670 | 81060 | 72910 | 61610 | 66250 |
| 29 | 49470 | 51770 | 59040 | 70930 | --- | 97160 | 87620 | 83630 | 80850 | 72600 | 61420 | 66300 |
| 30 | 49500 | 52040 | 59420 | 73670 | --- | 96550 | 87240 | 83500 | 80710 | 72260 | 61460 | 66330 |
| 31 | 49410 | --- | 59780 | 74540 | --- | 95020 | --- | 83440 | --- | 71790 | 61840 | --- |
| MEAN | 48630 | 50150 | 55100 | 65400 | 88960 | 105300 | 89560 | 85150 | 82330 | 76840 | 65240 | 64980 |
| MAX | 49510 | 52040 | 59780 | 74540 | 108700 | 117200 | 93280 | 87910 | 83390 | 81050 | 71180 | 66330 |
| MIN | 47810 | 49160 | 52210 | 60180 | 75130 | 93950 | 87240 | 83440 | 80710 | 71790 | 61420 | 62740 |
| (+) | 682.43 | 683.40 | 686.13 | 690.83 | 699.69 | 696.43 | 694.42 | 693.39 | 692.62 | 690.00 | 686.82 | 688.29 |
| (@) | -210 | +2630 | +7740 | +14760 | +34160 | -13680 | -7780 | -3800 | -2730 | -8920 | -9950 | +4490 |

CAL YR 2000 MAX 110000 MIN 47810 (@) -4820
WTR YR 2001 MAX 117200 MIN 47810 (@) +16710

e Estimated
(+) Elevation, in feet, at end of month.
(@) Change in Contents, in acre-feet.

08046500 Benbrook Lake near Benbrook, TX--Continued



08046500 Benbrook Lake near Benbrook, TX--Continued

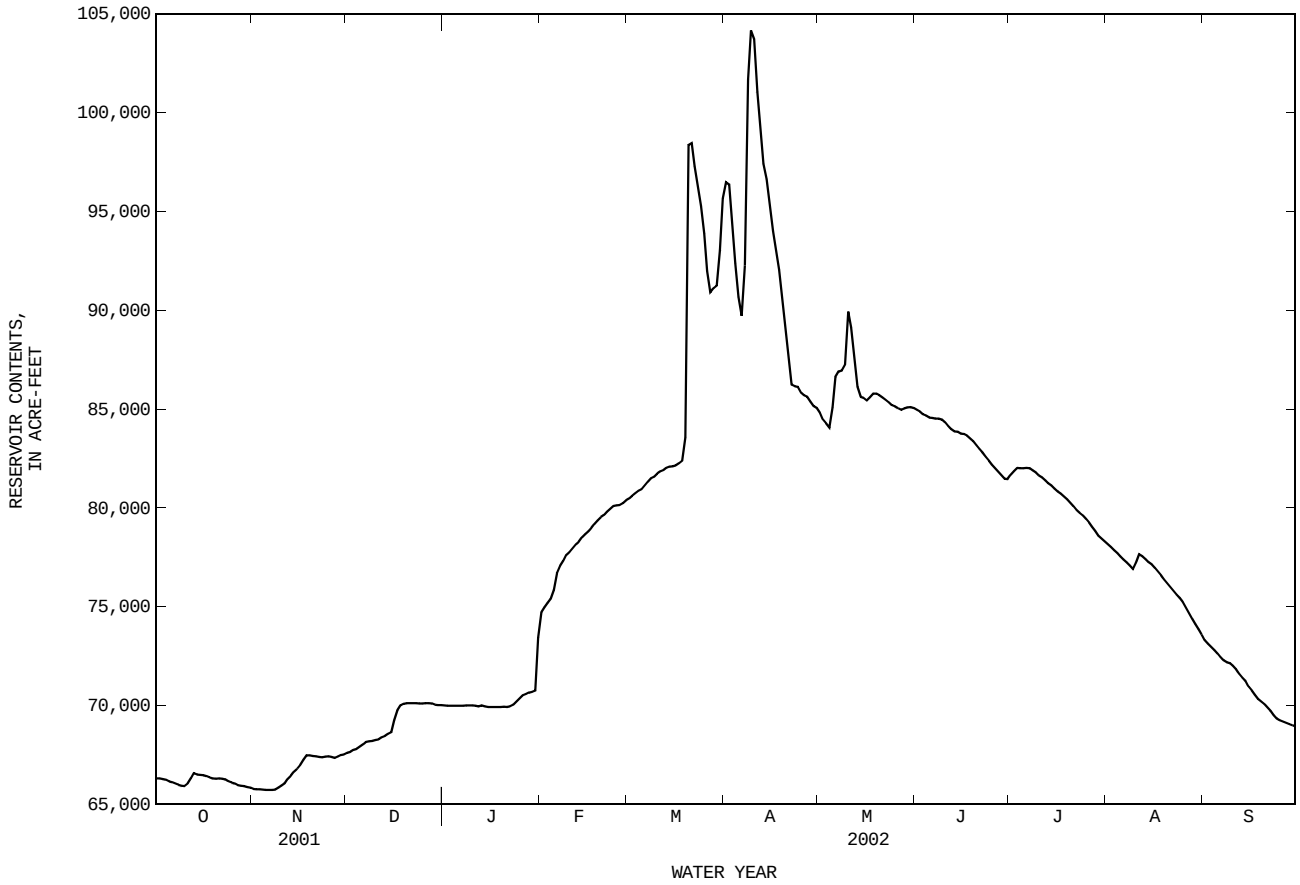
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 66340 | 65790 | 67620 | 70010 | 74710 | 80480 | 96470 | 84820 | 84960 | 81680 | 78180 | 73320 |
| 2 | 66330 | 65770 | 67670 | 70000 | 74970 | 80610 | 96360 | 84470 | 84880 | 81870 | 78030 | 73140 |
| 3 | 66300 | 65770 | 67770 | 70000 | 75200 | 80730 | 94250 | 84280 | 84730 | 82030 | 77870 | 72980 |
| 4 | 66260 | 65760 | 67820 | 70000 | 75400 | 80870 | 92380 | 84070 | 84660 | 82020 | 77720 | 72820 |
| 5 | 66180 | 65740 | 67940 | 70000 | 75840 | 80950 | 90670 | 85090 | 84570 | 82010 | 77560 | 72650 |
| 6 | 66130 | 65740 | 68040 | 70000 | 76710 | 81130 | 89720 | 86630 | 84550 | 82030 | 77400 | 72470 |
| 7 | 66080 | 65750 | 68170 | 70000 | 77080 | 81330 | 92260 | 86900 | 84530 | 82010 | 77250 | 72300 |
| 8 | 66000 | 65770 | 68210 | 70030 | 77340 | 81500 | 101700 | 86950 | 84520 | 81910 | 77090 | 72210 |
| 9 | 65960 | 65850 | 68210 | 70030 | 77630 | 81580 | 104100 | 87240 | 84480 | 81800 | 76910 | 72160 |
| 10 | 65940 | 65960 | 68270 | 70020 | 77770 | 81740 | 103700 | 89930 | 84320 | 81640 | 77220 | 72020 |
| 11 | 66080 | 66080 | 68310 | 70000 | 77960 | 81850 | 101100 | 89140 | 84150 | 81540 | 77670 | 71840 |
| 12 | 66320 | 66320 | 68400 | 69970 | 78150 | 81920 | 99000 | 87550 | 83990 | 81390 | 77560 | 71600 |
| 13 | 66590 | 66470 | 68460 | 70010 | 78290 | 82040 | 97420 | 86120 | 83870 | 81260 | 77420 | 71420 |
| 14 | 66520 | 66670 | 68570 | 69970 | 78510 | 82100 | 96630 | 85620 | 83850 | 81140 | 77260 | 71250 |
| 15 | 66510 | 66810 | 68650 | 69940 | 78680 | 82120 | 95240 | 85570 | 83750 | 80970 | 77150 | 70980 |
| 16 | 66490 | 67000 | 69250 | 69940 | 78830 | 82170 | 94010 | 85440 | 83740 | 80830 | 76980 | 70790 |
| 17 | 66440 | 67270 | 69760 | 69940 | 79000 | 82250 | e93020 | 85600 | 83670 | 80720 | 76780 | 70550 |
| 18 | 66380 | 67490 | 70020 | 69940 | 79200 | 82390 | 92060 | 85780 | 83520 | 80590 | 76590 | 70340 |
| 19 | 66330 | 67490 | 70110 | 69940 | 79370 | e83560 | 90470 | 85780 | 83370 | 80450 | 76380 | 70230 |
| 20 | 66320 | 67460 | 70130 | 69950 | 79540 | e98340 | 88990 | 85700 | 83170 | 80270 | 76180 | 70110 |
| 21 | 66320 | 67450 | 70130 | 69940 | 79650 | 98440 | 87530 | 85600 | 82980 | 80090 | 75990 | 69920 |
| 22 | 66310 | 67410 | 70130 | 69960 | 79810 | 97280 | 86230 | 85480 | 82800 | 79900 | 75800 | 69740 |
| 23 | 66280 | 67400 | 70130 | 70040 | 79960 | 96310 | 86160 | 85340 | 82590 | 79760 | 75620 | 69520 |
| 24 | 66190 | 67430 | 70120 | 70210 | 80100 | 95280 | 86120 | 85200 | 82380 | 79630 | 75460 | 69360 |
| 25 | 66120 | 67440 | 70120 | 70380 | 80130 | 93880 | 85830 | 85140 | 82200 | 79460 | 75250 | 69250 |
| 26 | 66070 | 67420 | 70130 | 70510 | 80150 | 91990 | 85690 | 85040 | 82020 | 79260 | 74960 | 69200 |
| 27 | 65990 | 67360 | 70130 | 70580 | 80240 | 90900 | 85630 | 84960 | 81830 | 79060 | 74670 | 69120 |
| 28 | 65960 | 67420 | 70120 | 70670 | 80370 | 91110 | 85380 | 85040 | 81650 | 78840 | 74410 | 69070 |
| 29 | 65940 | 67510 | 70060 | 70700 | --- | 91240 | 85150 | 85100 | 81470 | 78600 | 74130 | 69020 |
| 30 | 65890 | 67540 | 70030 | 70760 | --- | 93040 | 85060 | 85110 | 81460 | 78450 | 73870 | 68940 |
| 31 | 65850 | --- | 70030 | 73450 | --- | 95650 | --- | 85060 | --- | 78320 | 73590 | --- |
| MEAN | 66210 | 66710 | 69110 | 70220 | 78240 | 86610 | 92280 | 85800 | 83490 | 80630 | 76420 | 70940 |
| MAX | 66590 | 67540 | 70130 | 73450 | 80370 | 98440 | 104100 | 89930 | 84960 | 82030 | 78180 | 73320 |
| MIN | 65850 | 65740 | 67620 | 69940 | 74710 | 80480 | 85060 | 84070 | 81460 | 78320 | 73590 | 68940 |
| (+) | 688.14 | 688.68 | 689.46 | 690.50 | 692.53 | 696.59 | 693.84 | 693.84 | 692.84 | 691.94 | 690.55 | 689.12 |
| (@) | -480 | +1690 | +2490 | +3420 | +6920 | +15280 | -10590 | 0 | -3600 | -3140 | -4730 | -4650 |

CAL YR 2001 MAX 117200 MIN 60180 (@) +10250
WTR YR 2002 MAX 104100 MIN 65740 (@) +2610

e Estimated
(+) Elevation, in feet, at end of month.
(@) Change in Contents, in acre-feet.

08046500 Benbrook Lake near Benbrook, TX--Continued



## 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 $mi^2$.

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. There is a diversion 1.0 mi upstream for Pecan Valley Golf Course. 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 $ft^3/s$ (76,070 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1948-52).--Maximum discharge, 82,900 $ft^3/s$, May 17, 1949, gage height, 28.72 ft from rating curve extended above 11,000 $ft^3/s$ on basis of velocity-area studies and slope-area measurement of 82,900 $ft^3/s$; no flow at times most years. Maximum stage since at least 1922, that of May 17, 1949.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11 | 11 | 15 | 7.2 | 5.3 | 6.0 | 0.49 | 0.38 | 5.3 | 3.6 | 1.1 | 21 |
| 2 | 11 | 12 | 15 | 7.2 | 4.8 | 6.3 | 408 | 0.31 | 5.5 | 2.1 | 1.0 | 1.9 |
| 3 | 11 | 12 | 15 | 7.2 | 4.8 | 6.7 | 1110 | 0.38 | 5.8 | 3.0 | 1.2 | 1.3 |
| 4 | 12 | 13 | 15 | 6.9 | 5.1 | 6.7 | 1090 | 0.23 | 5.8 | 1.6 | 0.92 | 1.3 |
| 5 | 12 | 12 | 15 | 7.4 | 14 | 6.6 | 836 | 16 | 7.2 | 1.8 | 0.78 | 1.3 |
| 6 | 12 | 12 | 17 | 7.5 | 6.7 | 6.7 | 707 | 0.16 | 6.7 | 1.6 | 0.75 | 1.7 |
| 7 | 12 | 12 | 18 | 7.2 | 6.2 | 6.9 | 859 | 0.00 | 5.5 | 1.5 | 0.69 | 2.6 |
| 8 | 12 | 12 | 19 | 6.3 | 5.3 | 7.4 | 298 | 3.0 | 6.4 | 1.4 | 0.77 | 1.9 |
| 9 | 12 | 14 | 19 | 6.9 | 5.4 | 7.2 | 0.51 | 20 | 5.8 | 1.5 | 0.74 | 1.8 |
| 10 | 13 | 12 | 19 | 7.2 | 5.1 | 7.5 | 630 | 479 | 5.6 | 1.5 | 51 | 1.4 |
| 11 | 16 | 15 | 20 | 7.1 | 5.7 | 7.8 | 1100 | 984 | 5.9 | 1.2 | 1.1 | 1.3 |
| 12 | 18 | 13 | 20 | 7.6 | 5.6 | 8.2 | 1080 | 971 | 6.2 | 1.2 | 1.2 | 1.1 |
| 13 | 15 | 13 | 22 | 8.2 | 5.7 | 9.5 | 1080 | 602 | 6.3 | 1.6 | 1.3 | 1.3 |
| 14 | 12 | 13 | 19 | 8.5 | 5.4 | 8.7 | 1090 | 194 | 4.2 | 1.2 | 1.4 | 1.6 |
| 15 | 12 | 15 | 19 | 9.1 | 5.7 | 7.4 | 1090 | 89 | 3.8 | 1.1 | 0.95 | 1.9 |
| 16 | 12 | 15 | 34 | 8.8 | 5.9 | 8.1 | 1110 | 41 | 7.5 | 1.3 | 1.2 | 1.6 |
| 17 | 11 | 17 | 9.2 | 8.6 | 5.8 | 8.8 | 1070 | 13 | 3.5 | 1.3 | 1.2 | 1.3 |
| 18 | 11 | 13 | 7.2 | 9.1 | 5.9 | 11 | 1060 | 6.5 | 3.2 | 1.5 | 1.5 | 1.2 |
| 19 | 11 | 12 | 7.2 | 8.9 | 5.8 | 85 | 963 | 5.8 | 3.9 | 1.3 | 1.6 | 3.3 |
| 20 | 11 | 13 | 6.9 | 8.5 | 5.4 | 13 | 827 | 5.3 | 3.3 | 1.2 | 2.0 | 1.4 |
| 21 | 11 | 13 | 6.8 | 8.8 | 4.9 | 513 | 823 | 4.9 | 3.6 | 1.1 | 1.8 | 1.3 |
| 22 | 12 | 13 | 7.0 | 7.8 | 5.2 | 858 | 389 | 11 | 3.5 | 0.90 | 2.4 | 1.4 |
| 23 | 12 | 14 | 6.9 | 8.8 | 5.6 | 844 | 0.72 | 5.3 | 3.5 | 0.79 | 3.2 | 1.2 |
| 24 | 12 | 14 | 7.2 | 11 | 5.5 | 839 | 0.73 | 5.1 | 3.6 | 0.91 | 8.5 | 0.62 |
| 25 | 12 | 14 | 7.2 | 5.9 | 5.7 | 1050 | 0.55 | 5.3 | 3.4 | 0.91 | 49 | 0.48 |
| 26 | 12 | 13 | 7.1 | 6.3 | 5.8 | 1160 | 0.53 | 5.2 | 3.6 | 0.89 | 62 | 0.57 |
| 27 | 11 | 15 | 7.1 | 6.4 | 6.1 | 374 | 0.39 | 6.5 | 3.8 | 1.3 | 54 | 0.70 |
| 28 | 11 | 17 | 7.1 | 6.7 | 6.1 | 0.46 | 0.36 | 5.5 | 3.8 | 1.1 | 53 | 0.71 |
| 29 | 12 | 15 | 7.4 | 6.8 | --- | 0.42 | 0.41 | 5.6 | 3.7 | 1.1 | 51 | 0.88 |
| 30 | 12 | 15 | 7.2 | 13 | --- | 16 | 0.41 | 5.7 | 7.3 | 1.0 | 50 | 0.98 |
| 31 | 11 | --- | 7.2 | 57 | --- | 0.52 | --- | 4.9 | --- | 1.1 | 48 | --- |
| MEAN | 12.10 | 13.47 | 13.22 | 9.481 | 5.875 | 190.0 | 587.5 | 112.8 | 4.907 | 1.406 | 14.69 | 2.035 |
| MAX | 18 | 17 | 34 | 57 | 14 | 1160 | 1110 | 984 | 7.5 | 3.6 | 62 | 21 |
| MIN | 11 | 11 | 6.8 | 5.9 | 4.8 | 0.42 | 0.36 | 0.00 | 3.2 | 0.79 | 0.69 | 0.48 |

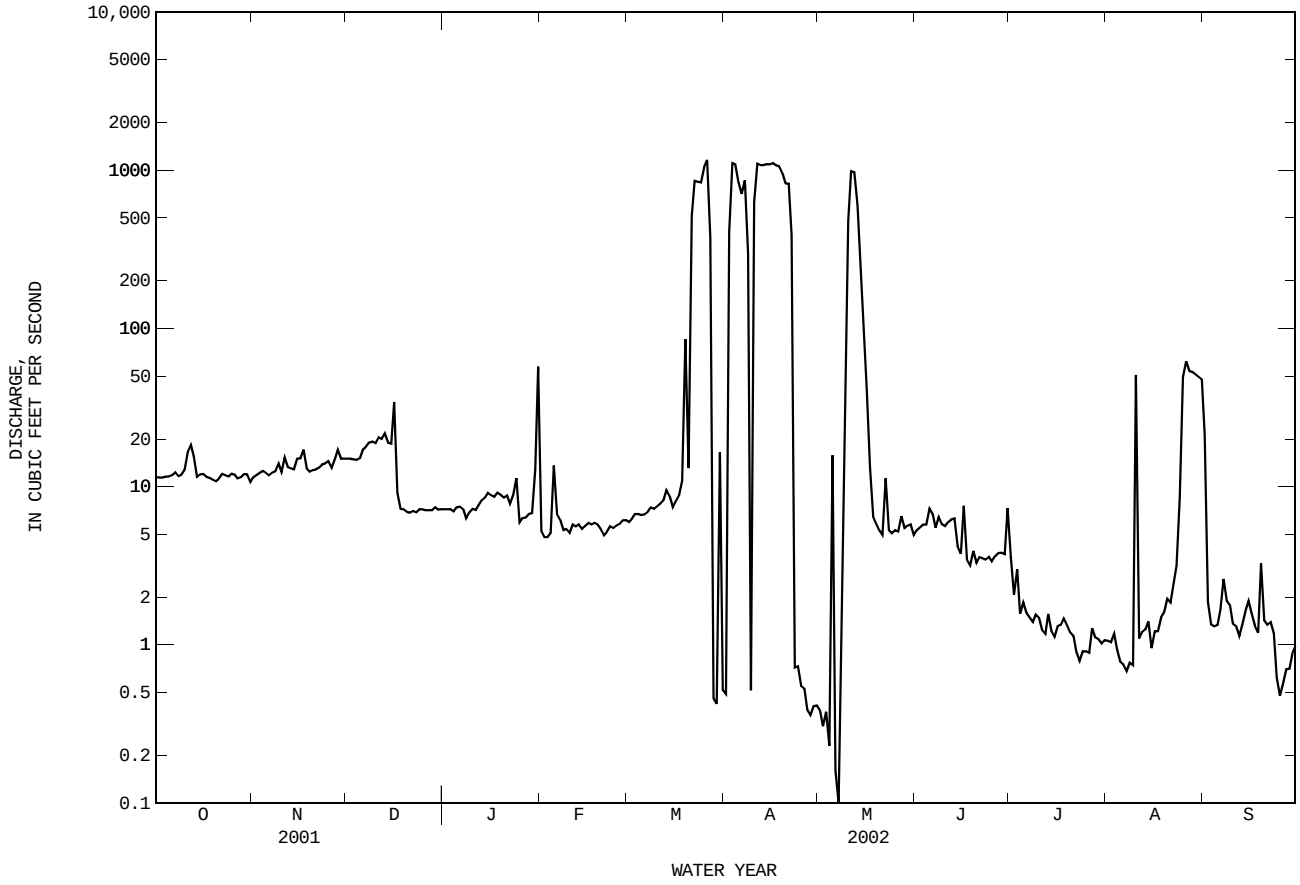
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 22.90 | 88.24 | 56.90 | 79.34 | 89.50 | 187.1 | 121.7 | 217.4 | 206.1 | 57.01 | 24.98 | 17.72 |
| MAX | 215 | 1479 | 680 | 1845 | 792 | 1734 | 881 | 2351 | 1804 | 1070 | 198 | 164 |
| (WY) | 1994 | 1992 | 1992 | 1992 | 1992 | 1997 | 1977 | 1990 | 1957 | 1989 | 1979 | 1962 |
| MIN | 0.000 | 0.053 | 0.042 | 0.000 | 0.000 | 0.13 | 0.10 | 0.000 | 0.000 | 0.029 | 0.000 | 0.000 |
| (WY) | 1953 | 1971 | 1954 | 1953 | 1953 | 1953 | 1959 | 1959 | 1953 | 1953 | 1953 | 1953 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1953 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL MEAN | 138.8 | | 80.46 | | 97.35 | |
| HIGHEST ANNUAL MEAN | | | | | 514 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 0.27 | 1953 |
| HIGHEST DAILY MEAN | 1640 | Mar 11 | 1160 | Mar 26 | 6320 | May 3 1990 |
| LOWEST DAILY MEAN | 1.5 | Jan 2 | 0.00 | May 7 | 0.00 | Oct 1 1952 |
| ANNUAL SEVEN-DAY MINIMUM | 1.6 | Jan 30 | 0.35 | Apr 28 | 0.00 | Oct 1 1952 |
| MAXIMUM PEAK FLOW | | | 2500 | Apr 7 | 6740 | May 3 1990 |
| MAXIMUM PEAK STAGE | | | 8.70 | Apr 7 | 14.71 | May 3 1990 |
| 10 PERCENT EXCEEDS | 586 | | 55 | | 196 | |
| 50 PERCENT EXCEEDS | 16 | | 6.9 | | 6.9 | |
| 90 PERCENT EXCEEDS | 2.9 | | 0.94 | | 0.10 | |

z Period of regulated streamflow.

08047000 Clear Fork Trinity River near Benbrook, TX--Continued



## 08047050 Marys Creek at Benbrook, TX

LOCATION.--Lat 32°41′42", long 97°26′49", Tarrant County, Hydrologic Unit 12030102, near left end of upstream side of bridge, 0.75 mi north of IH-20 on Wiscott Road in Benbrook, and 0.25 mi upstream from confluence with Clear Fork Trinity River.

DRAINAGE AREA.--24 $mi^2$.

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 fair. No known regulation. Low flow is affected at times by diversions from small dams upstream. No flow at times most years.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

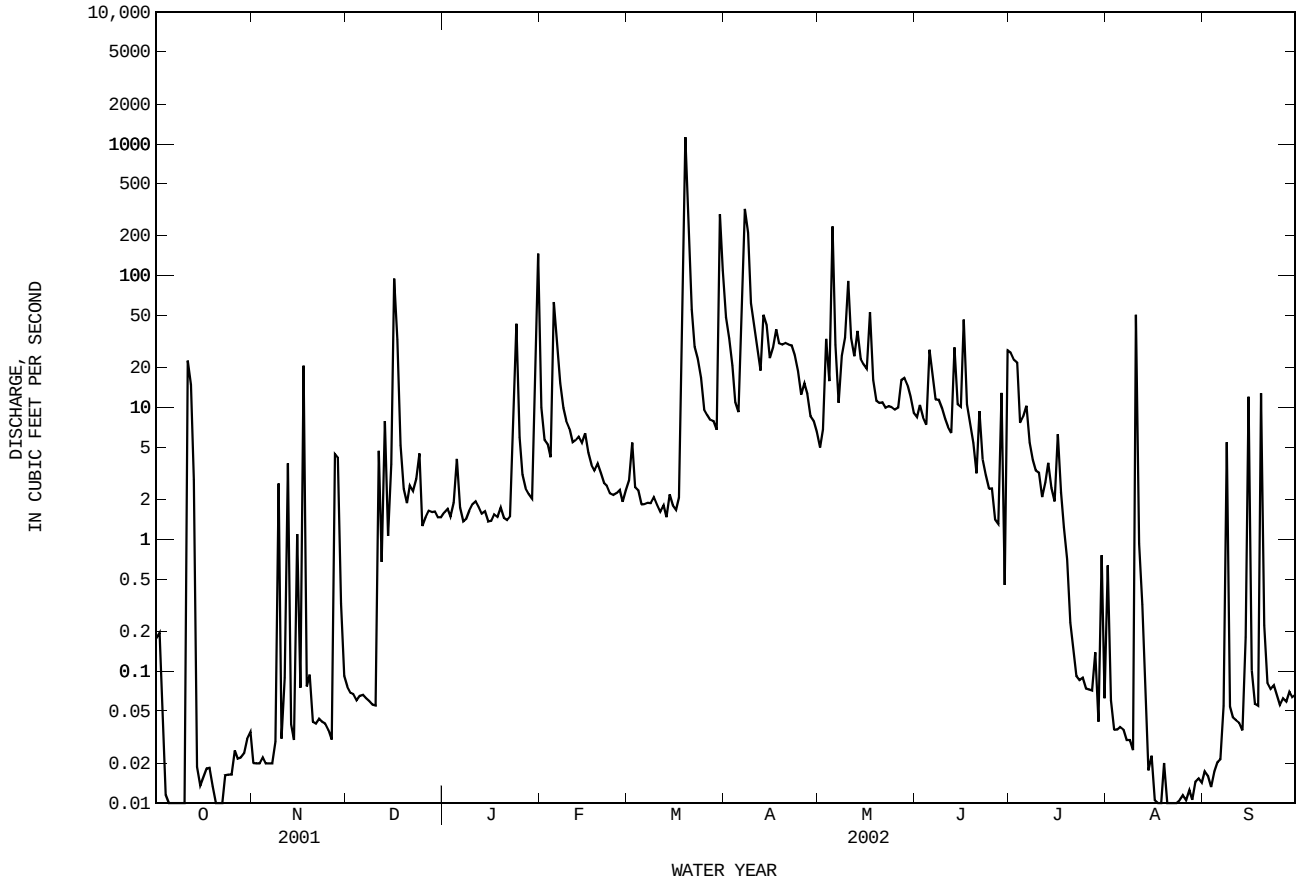
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.18 | 0.02 | 0.08 | 1.6 | 10 | 2.8 | 48 | 5.0 | 8.4 | 26 | 0.63 | 0.02 |
| 2 | 0.19 | 0.02 | 0.07 | 1.7 | 5.7 | 5.4 | 34 | 6.8 | 10 | 23 | 0.06 | 0.02 |
| 3 | 0.03 | 0.02 | 0.07 | 1.5 | 5.3 | 2.5 | 21 | 33 | 8.4 | 22 | 0.04 | 0.01 |
| 4 | 0.01 | 0.02 | 0.06 | 1.9 | 4.2 | 2.4 | 11 | 16 | 7.4 | 7.6 | 0.04 | 0.02 |
| 5 | 0.00 | 0.02 | 0.07 | 4.1 | 63 | 1.8 | 9.2 | 235 | 27 | 8.5 | 0.04 | 0.02 |
| 6 | 0.00 | 0.02 | 0.07 | 1.7 | 31 | 1.8 | 64 | 30 | 18 | 10 | 0.04 | 0.02 |
| 7 | 0.00 | 0.02 | 0.06 | 1.4 | 15 | 1.9 | 320 | 11 | 11 | 5.4 | 0.03 | 0.05 |
| 8 | 0.00 | 0.03 | 0.06 | 1.4 | 9.9 | 1.9 | 212 | 25 | 11 | 4.0 | 0.03 | 5.5 |
| 9 | 0.00 | 2.6 | 0.06 | 1.7 | 7.9 | 2.1 | 62 | 34 | 9.9 | 3.3 | 0.03 | 0.05 |
| 10 | 0.00 | 0.03 | 0.05 | 1.8 | 6.9 | 1.8 | 43 | 91 | 8.2 | 3.2 | 50 | 0.04 |
| 11 | 23 | 0.09 | 4.7 | 1.9 | 5.4 | 1.6 | 28 | 34 | 7.1 | 2.1 | 0.93 | 0.04 |
| 12 | 15 | 3.8 | 0.67 | 1.8 | 5.7 | 1.8 | 19 | 25 | 6.4 | 2.7 | 0.32 | 0.04 |
| 13 | 2.8 | 0.04 | 7.9 | 1.6 | 6.0 | 1.5 | 50 | 38 | 29 | 3.8 | 0.06 | 0.04 |
| 14 | 0.02 | 0.03 | 1.1 | 1.6 | 5.4 | 2.2 | 42 | 23 | 11 | 2.4 | 0.02 | 0.18 |
| 15 | 0.01 | 1.1 | 3.7 | 1.4 | 6.4 | 1.8 | 24 | 21 | 10 | 1.9 | 0.02 | 12 |
| 16 | 0.02 | 0.07 | 95 | 1.4 | 4.5 | 1.7 | 28 | 20 | 46 | 6.3 | 0.01 | 0.10 |
| 17 | 0.02 | 21 | 33 | 1.5 | 3.7 | 2.1 | 39 | 53 | 11 | 2.3 | 0.01 | 0.06 |
| 18 | 0.02 | 0.08 | 5.2 | 1.5 | 3.3 | 17 | 31 | 16 | 7.5 | 1.2 | 0.01 | 0.05 |
| 19 | 0.01 | 0.09 | 2.4 | 1.7 | 3.7 | 1120 | 30 | 11 | 5.4 | 0.71 | 0.02 | 13 |
| 20 | 0.01 | 0.04 | 1.9 | 1.5 | 3.2 | 188 | 31 | 11 | 3.2 | 0.23 | 0.00 | 0.22 |
| 21 | 0.01 | 0.04 | 2.6 | 1.4 | 2.7 | 55 | 30 | 11 | 9.3 | 0.14 | 0.00 | 0.08 |
| 22 | 0.01 | 0.04 | 2.3 | 1.5 | 2.5 | 29 | 30 | 10 | 4.0 | 0.09 | 0.01 | 0.07 |
| 23 | 0.02 | 0.04 | 2.9 | 10 | 2.2 | 23 | 25 | 10 | 3.1 | 0.09 | 0.01 | 0.08 |
| 24 | 0.02 | 0.04 | 4.5 | 43 | 2.2 | 17 | 19 | 10 | 2.4 | 0.09 | 0.01 | 0.07 |
| 25 | 0.02 | 0.04 | 1.3 | 6.0 | 2.2 | 9.6 | 13 | 9.6 | 2.4 | 0.07 | 0.01 | 0.06 |
| 26 | 0.03 | 0.03 | 1.5 | 3.1 | 2.4 | 8.8 | 15 | 9.9 | 1.4 | 0.07 | 0.01 | 0.06 |
| 27 | 0.02 | 4.4 | 1.6 | 2.4 | 1.9 | 8.0 | 13 | 16 | 1.3 | 0.07 | 0.01 | 0.06 |
| 28 | 0.02 | 4.2 | 1.6 | 2.2 | 2.4 | 7.9 | 8.6 | 17 | 13 | 0.14 | 0.01 | 0.07 |
| 29 | 0.02 | 0.33 | 1.6 | 2.0 | --- | 6.8 | 7.9 | 15 | 0.45 | 0.04 | 0.01 | 0.06 |
| 30 | 0.03 | 0.09 | 1.5 | 16 | --- | 292 | 6.5 | 12 | 27 | 0.75 | 0.02 | 0.07 |
| 31 | 0.03 | --- | 1.5 | 147 | --- | 109 | --- | 9.1 | --- | 0.06 | 0.01 | --- |
| TOTAL | 41.55 | 38.39 | 179.12 | 269.3 | 224.7 | 1928.2 | 1314.2 | 868.4 | 320.25 | 138.25 | 52.45 | 32.16 |
| MEAN | 1.340 | 1.280 | 5.778 | 8.687 | 8.025 | 62.20 | 43.81 | 28.01 | 10.68 | 4.460 | 1.692 | 1.072 |
| MAX | 23 | 21 | 95 | 147 | 63 | 1120 | 320 | 235 | 46 | 26 | 50 | 13 |
| MIN | 0.00 | 0.02 | 0.05 | 1.4 | 1.9 | 1.5 | 6.5 | 5.0 | 0.45 | 0.04 | 0.00 | 0.01 |
| AC-FT | 82 | 76 | 355 | 534 | 446 | 3820 | 2610 | 1720 | 635 | 274 | 104 | 64 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 3.962 | 12.16 | 11.88 | 18.29 | 51.61 | 53.95 | 27.82 | 38.88 | 40.05 | 4.500 | 1.680 | 1.611 |
| MAX | 6.53 | 32.7 | 22.5 | 50.2 | 181 | 127 | 43.8 | 87.5 | 130 | 9.58 | 5.98 | 4.33 |
| (WY) | 1999 | 2001 | 2001 | 2001 | 2001 | 2001 | 2002 | 1999 | 2000 | 2001 | 2001 | 2001 |
| MIN | 1.34 | 1.31 | 3.73 | 2.36 | 6.80 | 11.1 | 14.8 | 9.71 | 1.33 | 0.21 | 0.18 | 0.12 |
| (WY) | 2002 | 2002 | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 1998 | 1998 | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1998 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 13959.02 | | 5406.97 | | | |
| ANNUAL MEAN | 38.24 | | 14.81 | | 22.93 | |
| HIGHEST ANNUAL MEAN | | | | | 42.5 | 2001 |
| LOWEST ANNUAL MEAN | | | | | 15.3 | 2002 |
| HIGHEST DAILY MEAN | 1840 | Feb 16 | 1120 | Mar 19 | 2880 | Jun 4 2000 |
| LOWEST DAILY MEAN | 0.00 | Oct 5 | 0.00 | Oct 5 | 0.00 | Aug 21 1998 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Oct 4 | 0.00 | Oct 4 | 0.00 | Oct 4 2001 |
| MAXIMUM PEAK FLOW | | | 4850 | Mar 19 | 20300 | Jun 4 2000 |
| MAXIMUM PEAK STAGE | | | 8.14 | Mar 19 | 16.66 | Jun 4 2000 |
| ANNUAL RUNOFF (AC-FT) | 27690 | | 10720 | | 16610 | |
| 10 PERCENT EXCEEDS | 90 | | 29 | | 47 | |
| 50 PERCENT EXCEEDS | 7.9 | | 2.1 | | 4.0 | |
| 90 PERCENT EXCEEDS | 0.03 | | 0.02 | | 0.07 | |

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 $mi^2$.

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.--Records fair except those for estimated daily discharges, which are poor. 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 during the current year for municipal use.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--28 years (water years 1925-52) prior to regulation by Benbrook Lake, 112 $ft^3/s$ (81,140 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925-52).--Maximum discharge, 107,000 $ft^3/s$, May 17, 1949, gage height, 28.20 ft, present datum, from rating curve extended above 16,000 $ft^3/s$ on basis of contracted-opening measurement of 107,000 $ft^3/s$. No flow at times many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 25, 1922, reached a stage of 27.5 ft, present datum, discharge, 74,300 $ft^3/s$, 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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 9.9 | 18 | e16 | 26 | 39 | 155 | 25 | 26 | 179 | 6.8 | 31 |
| 2 | 13 | 10 | 20 | e16 | 23 | 47 | 433 | 13 | 23 | 63 | 3.3 | 15 |
| 3 | 13 | 9.9 | 26 | e16 | 24 | 46 | 1350 | 97 | 19 | 215 | 3.4 | 7.6 |
| 4 | 12 | 10 | 25 | 16 | 24 | 41 | 1340 | 20 | 19 | 38 | 2.9 | 8.0 |
| 5 | 18 | 9.9 | 17 | 19 | e154 | 39 | 1180 | e778 | 43 | 29 | 2.4 | 3.7 |
| 6 | 12 | 9.7 | 43 | 18 | e124 | 38 | 1270 | e100 | 33 | 33 | 2.3 | 3.2 |
| 7 | 11 | 9.9 | 22 | 17 | e98 | 38 | 3350 | e84 | 24 | 26 | 2.5 | 4.5 |
| 8 | 12 | 9.0 | 22 | 17 | e79 | 39 | 1250 | e61 | 19 | 20 | 2.7 | 92 |
| 9 | 10 | 44 | 21 | 16 | 66 | 38 | 234 | e142 | 18 | 16 | 3.7 | 63 |
| 10 | 11 | 20 | 21 | 17 | 60 | 36 | 764 | e384 | 16 | 16 | 1100 | 11 |
| 11 | 216 | 35 | 42 | 16 | 57 | 37 | 1420 | e418 | 14 | 13 | 53 | 8.9 |
| 12 | 160 | 41 | 41 | 16 | 58 | 37 | 1400 | e458 | 14 | 15 | 31 | 8.4 |
| 13 | 177 | 24 | 56 | 17 | 64 | 38 | 1500 | e478 | 44 | 14 | 18 | 7.7 |
| 14 | 27 | 18 | 34 | 17 | 59 | 37 | 1420 | 309 | 40 | 14 | 60 | 7.3 |
| 15 | 21 | 30 | 32 | 16 | 53 | 37 | 1390 | 134 | 19 | 11 | 24 | 38 |
| 16 | 14 | 45 | 547 | 16 | 50 | 35 | 1650 | 95 | 156 | 26 | 13 | 19 |
| 17 | 11 | 108 | 144 | 16 | 51 | 37 | 1400 | 291 | 27 | 32 | 10 | 9.7 |
| 18 | 10 | 26 | 46 | 17 | 49 | 93 | 1370 | 54 | 20 | 28 | 8.5 | 7.3 |
| 19 | 10 | 16 | e29 | 18 | 49 | 960 | 1310 | 41 | 15 | 14 | 6.8 | 98 |
| 20 | 11 | 14 | e24 | 17 | 44 | 380 | 1190 | 38 | 17 | 8.0 | 6.4 | 22 |
| 21 | 11 | 14 | e19 | 17 | 40 | 269 | 1190 | 23 | 17 | 6.2 | 5.1 | 9.8 |
| 22 | 11 | 14 | e17 | 16 | 40 | 411 | 758 | 7.3 | 17 | 5.8 | 4.4 | 8.0 |
| 23 | 11 | 15 | e17 | 19 | 41 | 402 | 68 | 35 | 12 | 4.9 | 4.1 | 7.1 |
| 24 | 11 | 14 | e17 | 35 | 40 | 397 | 46 | 32 | 10 | 4.1 | 3.8 | 5.3 |
| 25 | 9.9 | 14 | e17 | 22 | 39 | 726 | 49 | 34 | 9.3 | 3.2 | 4.3 | 4.2 |
| 26 | 10 | 14 | e17 | 19 | 39 | 1010 | 102 | 35 | 9.6 | 7.6 | 24 | 4.4 |
| 27 | 10 | 16 | e16 | 18 | 39 | 1050 | 46 | 40 | 11 | 6.1 | 8.1 | 4.0 |
| 28 | 10 | 76 | e16 | 18 | 39 | 757 | 36 | 45 | 98 | 2.9 | 4.4 | 3.9 |
| 29 | 9.3 | 29 | e16 | 18 | --- | 350 | 30 | 35 | 31 | 3.2 | 3.0 | 4.1 |
| 30 | 9.2 | 19 | e16 | 24 | --- | 1640 | 38 | 33 | 97 | 10 | 14 | 4.5 |
| 31 | 9.8 | --- | e16 | 314 | --- | 294 | --- | 31 | --- | 15 | 31 | --- |
| TOTAL | 896.2 | 724.3 | 1414 | 854 | 1529 | 9398 | 27739 | 4370.3 | 917.9 | 879.0 | 1466.9 | 520.6 |
| MEAN | 28.91 | 24.14 | 45.61 | 27.55 | 54.61 | 303.2 | 924.6 | 141.0 | 30.60 | 28.35 | 47.32 | 17.35 |
| MAX | 216 | 108 | 547 | 314 | 154 | 1640 | 3350 | 778 | 156 | 215 | 1100 | 98 |
| MIN | 9.2 | 9.0 | 16 | 16 | 23 | 35 | 30 | 7.3 | 9.3 | 2.9 | 2.3 | 3.2 |
| AC-FT | 1780 | 1440 | 2800 | 1690 | 3030 | 18640 | 55020 | 8670 | 1820 | 1740 | 2910 | 1030 |

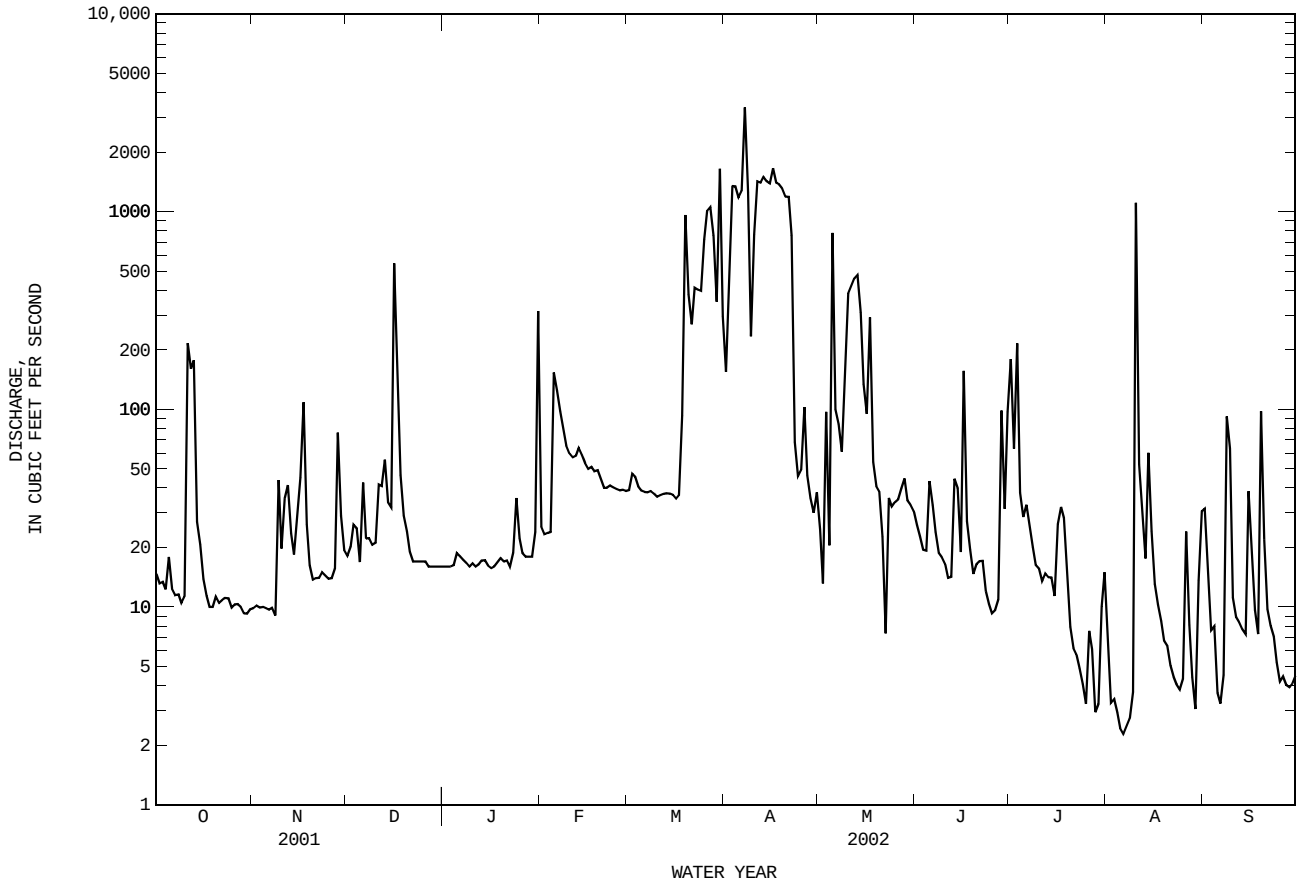
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 56.08 | 107.5 | 86.71 | 109.3 | 137.7 | 254.4 | 187.6 | 306.5 | 256.9 | 72.28 | 32.43 | 31.13 |
| MAX | 353 | 1555 | 1118 | 2198 | 1019 | 1838 | 1012 | 3020 | 2219 | 1300 | 247 | 245 |
| (WY) | 1994 | 1992 | 1992 | 1992 | 1992 | 1997 | 1977 | 1990 | 1989 | 1989 | 1979 | 1962 |
| MIN | 0.000 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1953 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 73422.2 | | 50709.2 | | | |
| ANNUAL MEAN | 201.2 | | 138.9 | | 136.4 | |
| HIGHEST ANNUAL MEAN | | | | | 660 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 4.55 | 1954 |
| HIGHEST DAILY MEAN | 2720 | Feb 16 | 3350 | Apr 7 | 11000 | Mar 11 1990 |
| LOWEST DAILY MEAN | 5.7 | Jul 28 | 2.3 | Aug 6 | 0.00 | Oct 1 1952 |
| ANNUAL SEVEN-DAY MINIMUM | 9.7 | Oct 28 | 2.8 | Aug 2 | 0.00 | Oct 1 1952 |
| MAXIMUM PEAK FLOW | | | 14600 | Apr 7 | 20900 | May 2 1990 |
| MAXIMUM PEAK STAGE | | | 15.07 | Apr 7 | 16.80 | May 2 1990 |
| ANNUAL RUNOFF (AC-FT) | 145600 | | 100600 | | 98850 | |
| 10 PERCENT EXCEEDS | 846 | | 382 | | 299 | |
| 50 PERCENT EXCEEDS | 33 | | 22 | | 16 | |
| 90 PERCENT EXCEEDS | 13 | | 7.0 | | 1.2 | |

e Estimated
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 $mi^2$.

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 $ft^3/s$. 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.--Records good except those for estimated daily discharges, which are fair. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19 | 17 | 21 | 25 | 79 | 28 | 225 | 37 | 24 | 290 | 16 | 33 |
| 2 | 17 | 16 | 20 | 25 | 44 | 35 | 384 | 29 | 22 | 94 | 8.8 | 27 |
| 3 | 17 | 17 | 19 | 24 | 43 | 35 | 1340 | 160 | 20 | 396 | 5.7 | 15 |
| 4 | 16 | 18 | 21 | 26 | 41 | 32 | 1320 | 48 | 18 | 82 | 5.2 | 12 |
| 5 | 19 | 13 | 22 | 33 | 471 | 28 | 1150 | 2150 | 48 | 52 | 4.7 | 11 |
| 6 | 17 | 12 | 37 | 33 | 186 | 29 | 1320 | 327 | 37 | 50 | 3.6 | 11 |
| 7 | 16 | 13 | 26 | 28 | 73 | 28 | 4300 | 187 | 24 | 35 | 2.9 | 10 |
| 8 | 15 | 11 | 19 | 28 | 61 | 29 | 1830 | 141 | 20 | 29 | 4.5 | 251 |
| 9 | 16 | 29 | 16 | 28 | 61 | 28 | 445 | 300 | 179 | 25 | 5.9 | 158 |
| 10 | 26 | 28 | 16 | 29 | 43 | 25 | 774 | 1050 | 335 | 21 | 1620 | 40 |
| 11 | 516 | 32 | 34 | 28 | 41 | 25 | 1450 | 1230 | 144 | 34 | 88 | 26 |
| 12 | 187 | 39 | 49 | 28 | 43 | 27 | 1420 | 1310 | 44 | 26 | 32 | 22 |
| 13 | 342 | e35 | 57 | 28 | 44 | 27 | 1590 | 1410 | 64 | 20 | 26 | 20 |
| 14 | 36 | e21 | 41 | 30 | 43 | 27 | 1640 | 856 | 66 | 19 | 105 | 18 |
| 15 | 27 | 21 | 30 | 29 | 41 | 26 | 1870 | 460 | 24 | 16 | 71 | 104 |
| 16 | 24 | 37 | 868 | 27 | 38 | 24 | 2390 | 317 | 259 | 44 | 21 | 41 |
| 17 | 21 | 174 | 245 | 29 | 39 | 25 | 1940 | 760 | 32 | 51 | 14 | 42 |
| 18 | 18 | 33 | 44 | 30 | 39 | 199 | 1640 | 407 | 21 | 50 | 12 | 37 |
| 19 | 16 | 21 | 35 | 32 | 39 | 4920 | 1450 | 372 | 15 | 26 | 9.3 | 217 |
| 20 | 16 | 17 | 30 | 29 | 35 | 2200 | 1250 | 302 | 16 | 17 | 7.6 | 65 |
| 21 | 15 | 17 | 29 | 29 | 32 | 1020 | 1210 | 149 | 22 | 12 | 6.3 | 33 |
| 22 | 15 | 18 | 29 | 29 | 32 | 1220 | 873 | 43 | 16 | e5.1 | 5.4 | 25 |
| 23 | 17 | 19 | 28 | 59 | 32 | 1110 | 139 | 38 | 14 | e4.7 | 5.3 | 21 |
| 24 | 19 | 18 | 27 | 259 | e32 | 1050 | 72 | 33 | 10 | 6.4 | 5.7 | 18 |
| 25 | 17 | 16 | 25 | 46 | 30 | 1200 | 89 | 30 | 8.8 | 5.3 | 5.5 | 16 |
| 26 | 16 | 18 | 24 | 26 | 27 | 1350 | 154 | 32 | 9.7 | 4.4 | 13 | 17 |
| 27 | 16 | 18 | 24 | 22 | 27 | 755 | 78 | 31 | 11 | 7.3 | 17 | 18 |
| 28 | 16 | 93 | 24 | 21 | 27 | 120 | 51 | 46 | 63 | 6.7 | 13 | 15 |
| 29 | 17 | 35 | e24 | 20 | --- | 107 | 44 | 36 | 43 | 5.6 | 9.7 | 14 |
| 30 | 17 | 23 | 25 | 54 | --- | 2170 | 44 | 31 | 95 | 14 | 8.8 | 13 |
| 31 | 18 | --- | 25 | 2060 | --- | 437 | --- | 27 | --- | 23 | 23 | --- |
| TOTAL | 1564 | 879 | 1934 | 3194 | 1743 | 18336 | 32482 | 12349 | 1704.5 | 1471.5 | 2175.9 | 1350 |
| MEAN | 50.45 | 29.30 | 62.39 | 103.0 | 62.25 | 591.5 | 1083 | 398.4 | 56.82 | 47.47 | 70.19 | 45.00 |
| MAX | 516 | 174 | 868 | 2060 | 471 | 4920 | 4300 | 2150 | 335 | 396 | 1620 | 251 |
| MIN | 15 | 11 | 16 | 20 | 27 | 24 | 44 | 27 | 8.8 | 4.4 | 2.9 | 10 |
| AC-FT | 3100 | 1740 | 3840 | 6340 | 3460 | 36370 | 64430 | 24490 | 3380 | 2920 | 4320 | 2680 |

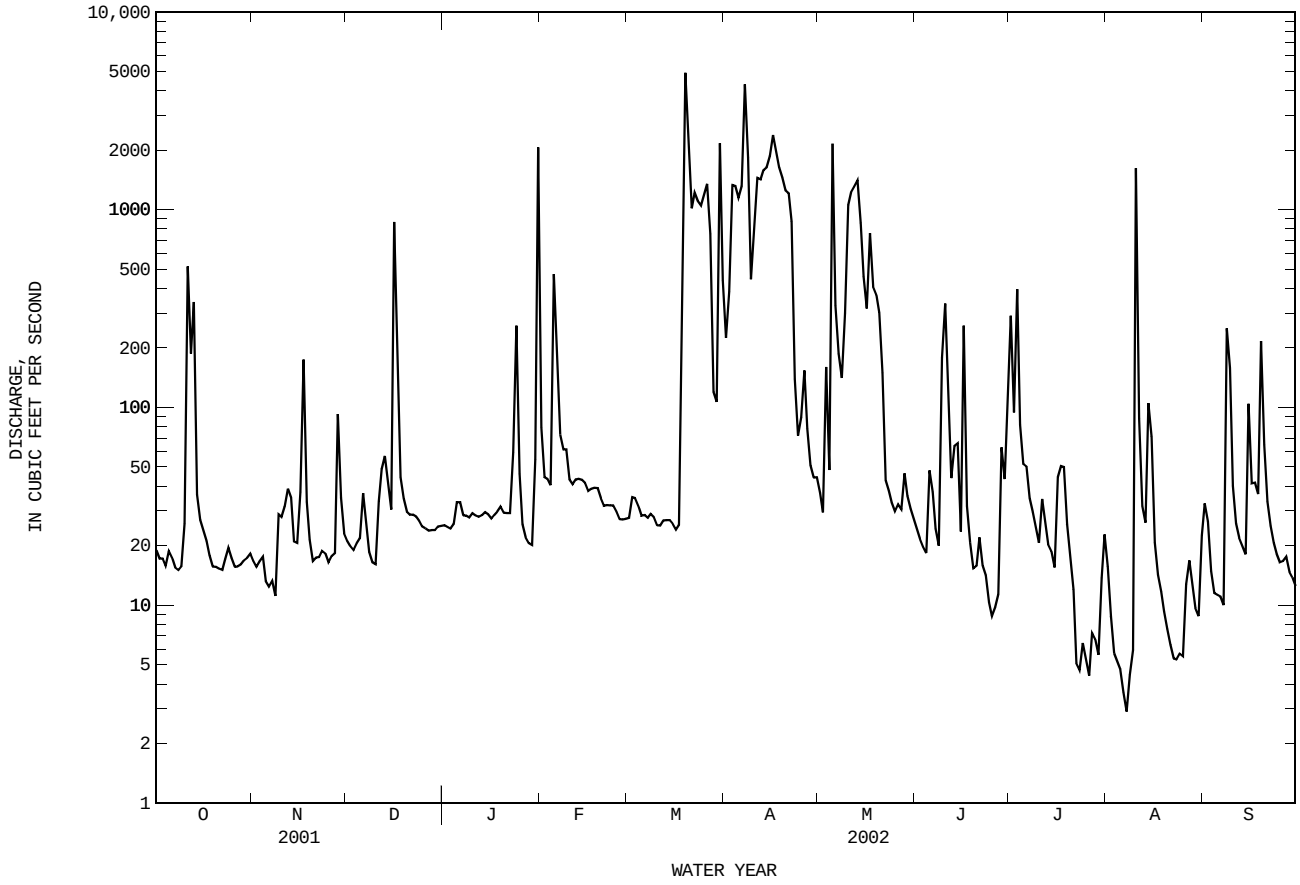
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 284.0 | 281.2 | 266.2 | 243.6 | 389.5 | 539.6 | 609.2 | 1116 | 765.5 | 237.9 | 114.1 | 148.7 |
| MAX | 4548 | 3855 | 6071 | 3521 | 4130 | 3523 | 5595 | 12430 | 10240 | 3030 | 1447 | 2482 |
| (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 | 0.000 | 0.000 |
| (WY) | 1940 | 1956 | 1935 | 1930 | 1940 | 1940 | 1930 | 1959 | 1954 | 1956 | 1956 | 1930 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1921 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 163327.1 | | 79182.9 | | | |
| ANNUAL MEAN | 447.5 | | 216.9 | | 416.1 | |
| HIGHEST ANNUAL MEAN | | | | | 1823 | 1990 |
| LOWEST ANNUAL MEAN | | | | | 15.6 | 1956 |
| HIGHEST DAILY MEAN | 6300 | Feb 27 | 4920 | Mar 19 | 47300 | Apr 25 1922 |
| LOWEST DAILY MEAN | 8.1 | Jul 28 | 2.9 | Aug 7 | 0.00 | Aug 2 1924 |
| ANNUAL SEVEN-DAY MINIMUM | 12 | Jul 27 | 4.6 | Aug 3 | 0.00 | Jul 24 1925 |
| MAXIMUM PEAK FLOW | | | 16500 | Mar 19 | 85000 | Apr 25 1922 |
| MAXIMUM PEAK STAGE | | | 6.37 | Mar 19 | 25.91 | May 17 1949 |
| ANNUAL RUNOFF (AC-FT) | 324000 | | 157100 | | 301500 | |
| 10 PERCENT EXCEEDS | 1790 | | 807 | | 1070 | |
| 50 PERCENT EXCEEDS | 41 | | 29 | | 40 | |
| 90 PERCENT EXCEEDS | 16 | | 12 | | 6.2 | |

e Estimated

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



## 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 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1976 to current year.

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

REMARKS.--Records poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35 | 35 | 64 | 64 | 368 | 72 | 424 | 65 | 78 | 585 | 52 | 12 |
| 2 | 31 | 33 | 61 | 63 | 164 | 89 | 351 | 63 | 72 | 351 | 41 | 20 |
| 3 | 28 | 31 | 60 | 63 | 144 | 83 | 1330 | 190 | 68 | 1300 | 38 | 17 |
| 4 | 26 | 28 | 59 | 63 | 133 | 79 | 1320 | 113 | 63 | 309 | 35 | 14 |
| 5 | 28 | 34 | 60 | 77 | 760 | 71 | 1260 | 2690 | 92 | 185 | 35 | 13 |
| 6 | 27 | 62 | 102 | 75 | 613 | 69 | 1550 | 643 | 103 | 281 | 35 | 12 |
| 7 | 26 | 58 | 79 | 68 | 206 | 68 | 5270 | 245 | 71 | 117 | 35 | 12 |
| 8 | 25 | 219 | 65 | 64 | 131 | 68 | 2690 | 214 | 64 | 96 | 34 | 170 |
| 9 | 24 | e171 | 59 | 62 | 123 | 68 | 972 | 580 | 153 | 87 | 35 | 142 |
| 10 | 43 | 122 | 58 | 62 | 113 | 65 | 968 | 1660 | 403 | 87 | 2360 | 14 |
| 11 | e383 | 171 | 70 | 61 | 106 | 64 | 1620 | 1510 | e220 | 99 | 530 | 8.0 |
| 12 | e277 | e245 | 113 | 60 | 102 | 66 | 1610 | 1570 | e99 | 104 | 108 | 6.9 |
| 13 | e446 | 319 | 106 | 59 | 96 | 65 | 1830 | 1790 | 105 | 100 | 73 | 6.0 |
| 14 | e181 | 76 | 114 | 60 | 95 | 65 | 1850 | 1270 | 145 | 94 | 73 | 8.9 |
| 15 | e105 | e90 | 82 | 60 | 98 | 65 | 2020 | 715 | 65 | 88 | 165 | 59 |
| 16 | e80 | e130 | 1160 | 59 | 93 | 63 | 2720 | 427 | 644 | 140 | 144 | 72 |
| 17 | e60 | e165 | 478 | 58 | 91 | 65 | 2290 | 1340 | 134 | 149 | 152 | 15 |
| 18 | 65 | 106 | 150 | 59 | 90 | 279 | 1990 | 755 | 86 | 169 | 72 | 29 |
| 19 | 60 | 74 | 97 | 63 | 95 | 5830 | 1850 | 512 | 76 | e79 | 34 | 210 |
| 20 | 46 | 65 | 85 | 60 | 96 | 4270 | 1680 | 447 | 149 | e59 | 28 | 135 |
| 21 | 37 | 65 | 80 | 60 | 90 | 1270 | 1660 | 269 | 202 | 54 | 23 | 68 |
| 22 | 34 | 65 | 78 | 60 | 74 | 1310 | 1490 | 137 | 75 | 56 | 19 | 26 |
| 23 | 34 | 65 | 74 | 85 | 73 | 1200 | 371 | 107 | 67 | 41 | 18 | 14 |
| 24 | 40 | 63 | 70 | 392 | 73 | 1140 | 151 | 100 | 60 | 38 | 17 | 4.0 |
| 25 | 34 | 63 | 69 | 160 | 74 | 1190 | 148 | 95 | 54 | 35 | 16 | 2.3 |
| 26 | 33 | 63 | 68 | 80 | 72 | 1290 | 342 | 98 | 99 | 33 | 15 | 2.1 |
| 27 | 29 | 65 | 68 | 70 | 69 | 990 | 163 | 105 | 74 | 33 | 14 | 2.1 |
| 28 | 26 | 142 | 69 | 68 | 71 | 205 | 112 | 151 | 105 | 35 | 15 | 3.9 |
| 29 | 25 | 117 | 68 | 65 | --- | 169 | 84 | 124 | 150 | 35 | 12 | 4.4 |
| 30 | 29 | 78 | 62 | 74 | --- | 2350 | 69 | 94 | 168 | 67 | 8.9 | 4.5 |
| 31 | 31 | --- | 62 | 3220 | --- | 846 | --- | 87 | --- | 89 | 7.7 | --- |
| TOTAL | 2348 | 3020 | 3890 | 5594 | 4313 | 23524 | 40185 | 18166 | 3944 | 4995 | 4244.6 | 1107.1 |
| MEAN | 75.74 | 100.7 | 125.5 | 180.5 | 154.0 | 758.8 | 1340 | 586.0 | 131.5 | 161.1 | 136.9 | 36.90 |
| MAX | 446 | 319 | 1160 | 3220 | 760 | 5830 | 5270 | 2690 | 644 | 1300 | 2360 | 210 |
| MIN | 24 | 28 | 58 | 58 | 69 | 63 | 69 | 63 | 54 | 33 | 7.7 | 2.1 |
| AC-FT | 4660 | 5990 | 7720 | 11100 | 8550 | 46660 | 79710 | 36030 | 7820 | 9910 | 8420 | 2200 |

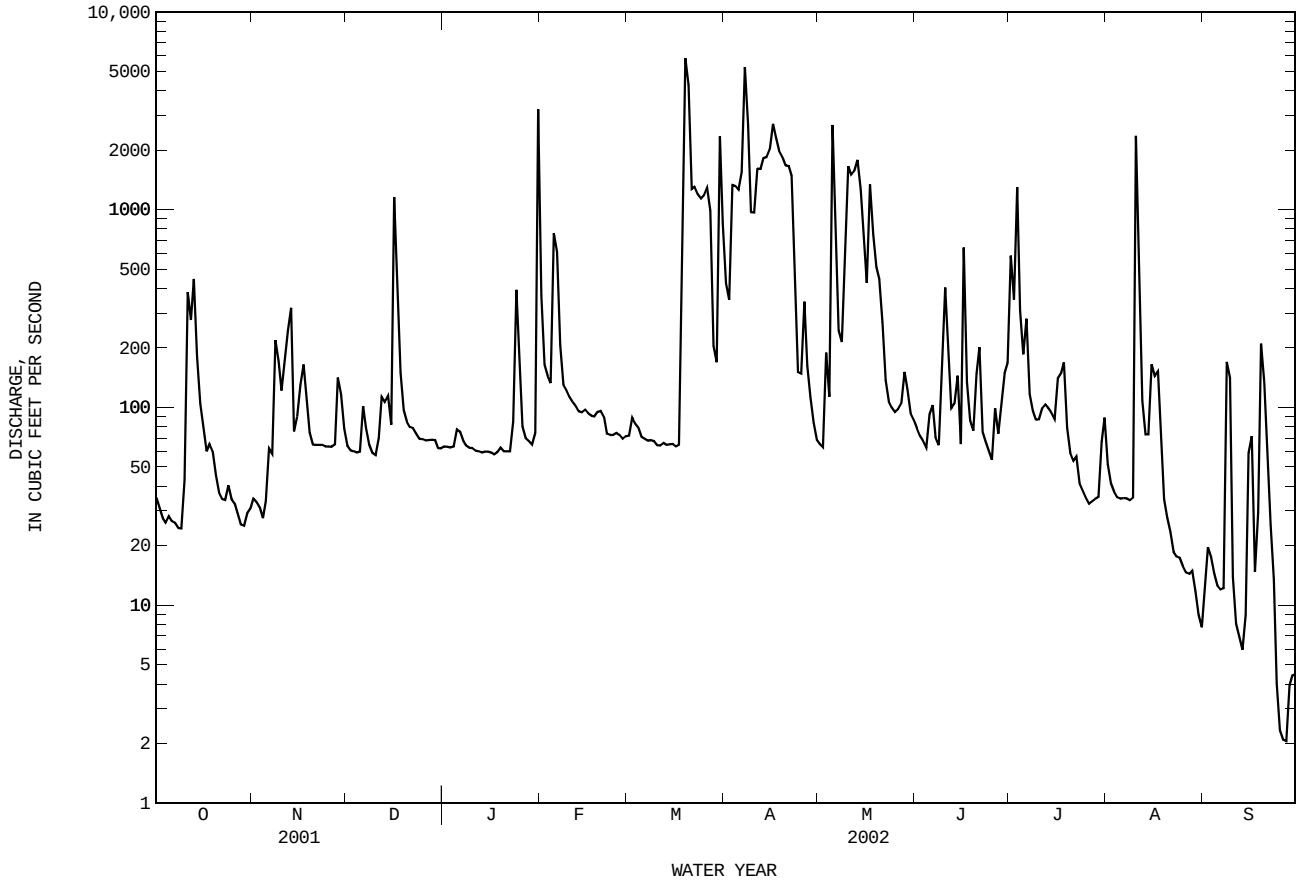
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 430.0 | 445.5 | 441.0 | 320.0 | 584.6 | 974.6 | 690.2 | 1557 | 1135 | 218.9 | 102.8 | 85.04 |
| MAX | 4881 | 3878 | 6459 | 4067 | 4288 | 3655 | 5668 | 12540 | 9448 | 1654 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1977 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 196627 | | 115330.7 | | | |
| ANNUAL MEAN | 538.7 | | 316.0 | | 582.0 | |
| HIGHEST ANNUAL MEAN | | | | | 2071 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 40.1 | 1978 |
| HIGHEST DAILY MEAN | 7410 | Feb 27 | 5830 | Mar 19 | 35200 | May 3 1990 |
| LOWEST DAILY MEAN | 13 | Jul 29 | 2.1 | Sep 26 | 0.72 | Sep 7 1998 |
| ANNUAL SEVEN-DAY MINIMUM | 16 | Jul 27 | 3.3 | Sep 24 | 0.80 | Sep 5 1998 |
| MAXIMUM PEAK FLOW | | | 20300 | Mar 19 | 46600 | May 2 1990 |
| MAXIMUM PEAK STAGE | | | 29.91 | Mar 19 | 38.02 | May 2 1990 |
| ANNUAL RUNOFF (AC-FT) | 390000 | | 228800 | | 421700 | |
| 10 PERCENT EXCEEDS | 1930 | | 1170 | | 1530 | |
| 50 PERCENT EXCEEDS | 80 | | 76 | | 55 | |
| 90 PERCENT EXCEEDS | 24 | | 26 | | 15 | |

e Estimated

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



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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1976 to Sept. 1999.
BIOCHEMICAL DATA: Oct. 1976 to Sept. 1999.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct. 1976 to Sept. 2002 (discontinued).
pH: Oct. 1976 to Sept. 2002 (discontinued).
WATER TEMPERATURE: Oct. 1976 to Sept. 2002 (discontinued).
DISSOLVED OXYGEN: Oct. 1976 to Sept. 2002 (discontinued).

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

REMARKS.--Records poor. Interruption in the record was 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. Dissolved oxygen values bypassing saturation can be attributed to algae blooms in close proximity to the well intake.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,000 microsiemens/cm, Nov. 6, 1978; minimum, 86 microsiemens/cm, July 1, 2001.
pH: Maximum, 9.8 units, Aug. 8, Sept. 2, 1980; minimum, 6.4 units, June 16, 2002.
WATER TEMPERATURE: Maximum, 38.5°C, Aug. 21, 1993; minimum, 0.0°C, Jan. 31, Feb. 1, 2, 1985.
DISSOLVED OXYGEN: Maximum, 22.1 mg/L, Oct. 4, 1983; minimum, 0.0 mg/L, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 632 microsiemens/cm, Mar. 17; minimum, 135 microsiemens/cm, Aug. 10.
pH: Maximum, 9.0 units, Aug. 16; minimum, 6.4 units, June 16.
WATER TEMPERATURE: Maximum, 33.2°C, July 11, 24, 25; minimum, 5.8°C, Jan. 4.
DISSOLVED OXYGEN: Maximum, 15.3 mg/L, July 10; minimum, 2.7 mg/L, Aug. 10.

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | --- | --- | e439 | 481 | 442 | 465 | --- | --- | e475 | 441 | 416 | 433 |
| 2 | --- | --- | e445 | 474 | 445 | 461 | --- | --- | e469 | 442 | 365 | 403 |
| 3 | --- | --- | e450 | 484 | 450 | 467 | 470 | 462 | 467 | 491 | 386 | 429 |
| 4 | --- | --- | e460 | 477 | 446 | 463 | 470 | 463 | 467 | 517 | 491 | 511 |
| 5 | --- | --- | e470 | 475 | 442 | 464 | 469 | 465 | 467 | 516 | 502 | 508 |
| 6 | --- | --- | e480 | 468 | 439 | 458 | 469 | 465 | 467 | 502 | 396 | 460 |
| 7 | --- | --- | e490 | 502 | 458 | 486 | 470 | 455 | 465 | 429 | 393 | 400 |
| 8 | --- | --- | e500 | 500 | 470 | 487 | 467 | 451 | 464 | 458 | 395 | 422 |
| 9 | --- | --- | e510 | 609 | 415 | 482 | 465 | 442 | 461 | 426 | 397 | 409 |
| 10 | --- | 364 | e435 | 446 | 427 | 435 | 461 | 441 | 451 | 406 | 399 | 403 |
| 11 | 393 | 197 | 322 | 473 | 348 | 428 | 473 | 454 | 460 | 436 | 403 | 413 |
| 12 | 381 | 226 | 329 | 481 | 309 | 402 | 473 | 436 | 446 | 436 | 409 | 422 |
| 13 | 345 | 226 | 329 | 489 | 405 | 460 | 447 | 416 | 440 | 420 | 414 | 417 |
| 14 | 349 | 335 | 342 | 503 | 489 | 495 | 433 | 384 | 405 | 433 | 417 | 422 |
| 15 | 347 | 316 | 329 | 507 | 498 | 502 | 442 | 381 | 401 | 440 | 429 | 436 |
| 16 | 350 | 316 | 335 | 514 | 470 | 501 | 446 | 229 | 350 | 466 | 439 | 459 |
| 17 | 380 | 343 | 356 | 504 | 348 | 458 | 335 | 312 | 322 | 465 | 456 | 461 |
| 18 | 431 | 370 | 386 | 471 | 451 | 463 | 340 | 310 | 323 | 481 | 459 | 472 |
| 19 | 381 | 359 | 370 | 467 | 455 | 459 | 350 | 325 | 335 | 479 | 464 | 470 |
| 20 | 400 | 365 | 379 | 491 | 467 | 482 | 393 | 350 | 374 | 477 | 470 | 473 |
| 21 | 385 | 365 | 376 | 493 | 487 | 490 | 415 | 389 | 402 | 492 | 476 | 482 |
| 22 | 443 | 374 | 391 | 494 | 488 | 491 | 423 | 356 | 391 | 498 | 488 | 494 |
| 23 | 460 | 408 | 436 | 494 | 487 | 491 | 400 | 346 | 373 | 501 | 491 | 497 |
| 24 | 461 | 423 | 447 | 489 | 487 | 488 | 421 | 350 | 393 | 502 | 348 | 448 |
| 25 | 463 | 411 | 440 | 491 | 485 | 488 | 455 | 373 | 426 | 498 | 455 | 484 |
| 26 | 461 | 400 | 435 | 491 | 481 | 485 | 373 | 350 | 355 | 475 | 451 | 460 |
| 27 | 454 | 411 | 437 | 484 | 476 | 480 | 418 | 355 | 368 | 471 | 457 | 462 |
| 28 | 458 | 411 | 443 | --- | --- | e483 | 500 | 418 | 474 | 477 | 461 | 471 |
| 29 | 466 | 421 | 451 | --- | --- | e480 | 490 | 396 | 441 | 481 | 473 | 477 |
| 30 | 477 | 428 | 454 | --- | --- | e478 | 433 | 383 | 407 | 483 | 430 | 479 |
| 31 | 477 | 439 | 460 | --- | --- | --- | 431 | 381 | 397 | 475 | 159 | 250 |
| MONTH | --- | --- | 417 | --- | --- | 472 | --- | --- | 417 | 517 | 159 | 446 |

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

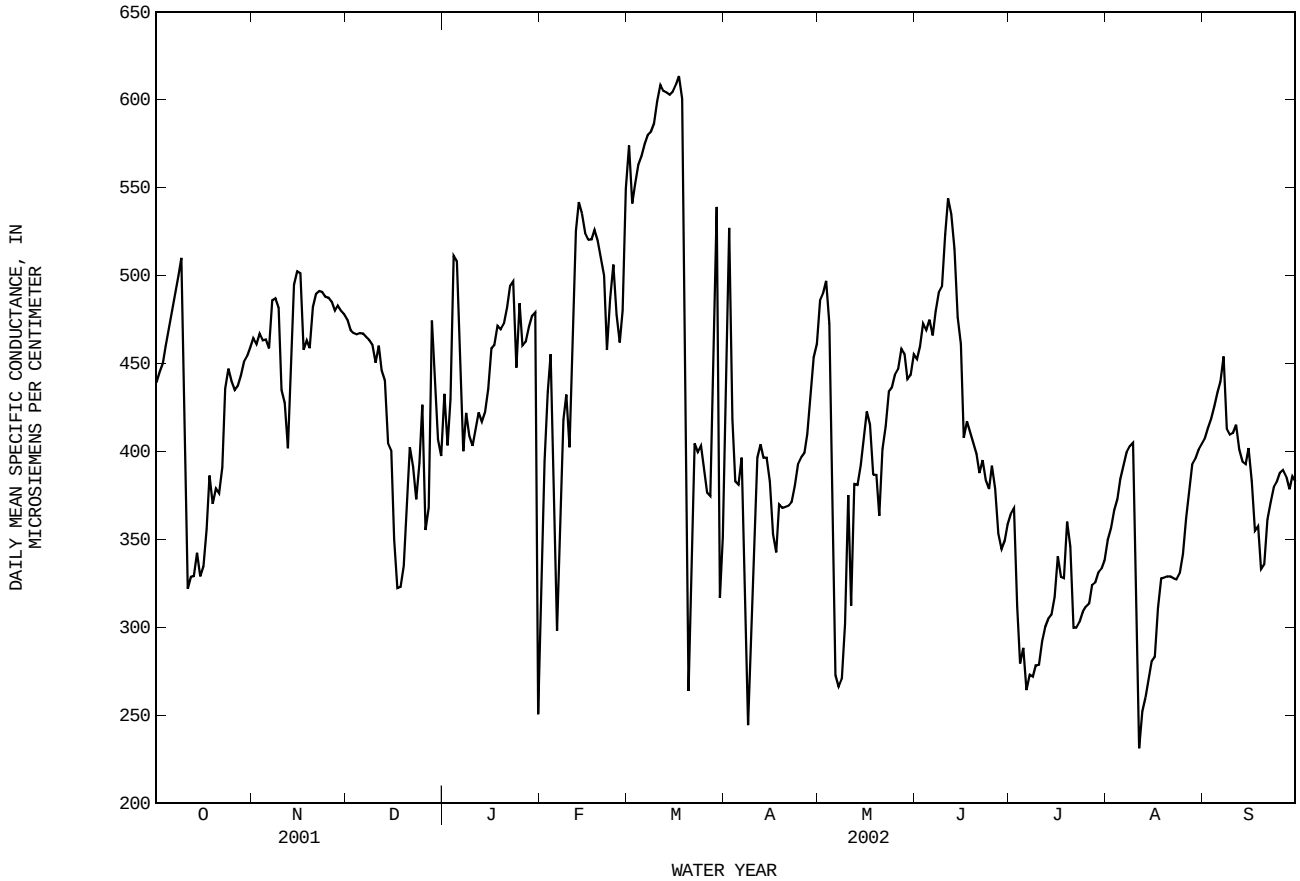
SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 351 | 255 | 307 | 582 | 559 | 574 | 531 | 381 | 463 | --- | --- | e486 |
| 2 | 419 | 333 | 394 | 580 | 531 | 541 | 538 | 508 | 527 | --- | --- | e490 |
| 3 | 455 | 419 | 434 | 562 | 543 | 552 | 526 | 353 | 418 | --- | --- | e497 |
| 4 | 461 | 449 | 455 | 568 | 554 | 563 | --- | --- | e383 | --- | --- | e473 |
| 5 | 474 | 265 | 366 | 575 | 564 | 568 | --- | --- | e381 | --- | --- | e345 |
| 6 | 335 | 272 | 298 | 581 | 569 | 575 | --- | --- | e396 | --- | --- | e273 |
| 7 | 399 | 335 | 370 | 583 | 578 | 580 | --- | --- | e339 | --- | --- | e266 |
| 8 | 450 | 399 | 418 | 588 | 578 | 582 | --- | --- | e244 | 336 | 153 | 271 |
| 9 | 452 | 403 | 432 | 595 | 579 | 587 | --- | --- | e299 | 346 | 231 | 302 |
| 10 | 413 | 396 | 402 | 613 | 589 | 599 | --- | --- | e351 | 418 | 300 | 375 |
| 11 | 515 | 404 | 476 | 611 | 606 | 609 | --- | --- | e396 | 384 | 253 | 312 |
| 12 | 538 | 514 | 526 | 608 | 602 | 605 | --- | --- | e404 | 392 | 358 | 381 |
| 13 | 550 | 533 | 542 | 607 | 602 | 604 | --- | --- | e396 | 398 | 354 | 381 |
| 14 | 540 | 528 | 535 | 606 | 601 | 603 | --- | --- | e396 | 402 | 382 | 392 |
| 15 | 530 | 520 | 524 | 609 | 600 | 605 | --- | --- | e383 | 422 | 390 | 406 |
| 16 | 522 | 519 | 521 | 611 | 597 | 609 | 382 | 210 | 353 | 441 | 411 | 423 |
| 17 | 523 | 519 | 521 | 632 | 610 | 614 | 369 | 319 | 343 | 454 | 321 | 415 |
| 18 | 535 | 519 | 526 | 631 | 529 | 601 | 379 | 362 | 370 | 415 | 360 | 387 |
| 19 | --- | --- | e520 | 576 | 154 | 345 | 381 | 356 | 368 | 399 | 353 | 387 |
| 20 | --- | --- | e510 | 339 | 159 | 264 | 379 | 359 | 368 | 392 | 342 | 363 |
| 21 | --- | --- | e500 | 396 | 292 | 352 | 377 | 361 | 369 | 423 | 390 | 401 |
| 22 | 465 | 453 | 458 | 421 | 384 | 405 | 386 | 361 | 371 | 439 | 405 | 414 |
| 23 | 506 | 464 | 487 | 420 | 391 | 400 | 399 | 362 | 380 | 456 | 415 | 434 |
| 24 | 523 | 459 | 506 | 416 | 388 | 403 | --- | --- | e393 | 457 | 420 | 436 |
| 25 | 499 | 462 | 478 | 403 | 374 | 389 | --- | --- | e396 | 462 | 426 | 444 |
| 26 | 467 | 457 | 462 | 388 | 367 | 377 | --- | --- | e399 | 496 | 431 | 447 |
| 27 | 528 | 460 | 480 | 399 | 366 | 375 | --- | --- | e410 | 485 | 434 | 458 |
| 28 | 560 | 532 | 550 | 550 | 380 | 448 | --- | --- | e433 | 493 | 439 | 455 |
| 29 | --- | --- | --- | 550 | 525 | 539 | --- | --- | e453 | 449 | 434 | 441 |
| 30 | --- | --- | --- | 532 | 169 | 317 | --- | --- | e461 | 455 | 433 | 443 |
| 31 | --- | --- | --- | 398 | 288 | 351 | --- | --- | --- | 476 | 439 | 455 |
| MONTH | --- | --- | 464 | 632 | 154 | 501 | --- | --- | 388 | --- | --- | 402 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 467 | 441 | 453 | 381 | 346 | 364 | --- | --- | e350 | 414 | 393 | 407 |
| 2 | 473 | 440 | 460 | 377 | 360 | 368 | --- | --- | e356 | 422 | 408 | 413 |
| 3 | 493 | 457 | 473 | 373 | 211 | 312 | --- | --- | e366 | 424 | 412 | 418 |
| 4 | 488 | 447 | 469 | 306 | 268 | 279 | --- | --- | e373 | 431 | 421 | 426 |
| 5 | 493 | 463 | 475 | 333 | 239 | 288 | --- | --- | e384 | 438 | 429 | 434 |
| 6 | 474 | 458 | 466 | 276 | 226 | 264 | 400 | 386 | 392 | 451 | 434 | 440 |
| 7 | 491 | 463 | 480 | 289 | 266 | 273 | 405 | 394 | 400 | 461 | 448 | 454 |
| 8 | 506 | 470 | 490 | 300 | 251 | 272 | 408 | 398 | 403 | 462 | 335 | 413 |
| 9 | 509 | 473 | 494 | 291 | 265 | 278 | 410 | 395 | 405 | 421 | 387 | 409 |
| 10 | 538 | 492 | 524 | 299 | 260 | 279 | 407 | 135 | 310 | 425 | 400 | 410 |
| 11 | --- | --- | e544 | 317 | 274 | 292 | 252 | 214 | 231 | 425 | 396 | 415 |
| 12 | --- | --- | e535 | 317 | 285 | 301 | --- | --- | e252 | 411 | 383 | 401 |
| 13 | 534 | 500 | 515 | 317 | 297 | 305 | --- | --- | e260 | 401 | 385 | 394 |
| 14 | 506 | 454 | 476 | 316 | 298 | 307 | --- | --- | e270 | 400 | 377 | 393 |
| 15 | 495 | 431 | 461 | 335 | 302 | 317 | 307 | 269 | 280 | 407 | 385 | 402 |
| 16 | 443 | 337 | 408 | 351 | 329 | 340 | 296 | 276 | 283 | 406 | 348 | 383 |
| 17 | 439 | 406 | 417 | 339 | 313 | 328 | 323 | 290 | 311 | 366 | 345 | 355 |
| 18 | 438 | 399 | 411 | 338 | 319 | 328 | 333 | 322 | 328 | 364 | 348 | 357 |
| 19 | 420 | 376 | 405 | --- | --- | e360 | 339 | 314 | 328 | 366 | 296 | 333 |
| 20 | 413 | 346 | 398 | --- | --- | e346 | 343 | 313 | 329 | 359 | 308 | 336 |
| 21 | 409 | 364 | 388 | --- | --- | e300 | 343 | 314 | 329 | 370 | 354 | 361 |
| 22 | 410 | 379 | 395 | --- | --- | e300 | 342 | 308 | 328 | 381 | 362 | 371 |
| 23 | 400 | 363 | 383 | --- | --- | e303 | 336 | 315 | 327 | 388 | 370 | 380 |
| 24 | 395 | 361 | 379 | 315 | 298 | 309 | 339 | 321 | 331 | 391 | 374 | 383 |
| 25 | 404 | 370 | 392 | 320 | 302 | 312 | 357 | 329 | 342 | 392 | 381 | 388 |
| 26 | 402 | 332 | 379 | 324 | 303 | 313 | 372 | 353 | 362 | 394 | 383 | 389 |
| 27 | 363 | 333 | 353 | 331 | 315 | 324 | 394 | 370 | 379 | 394 | 373 | 386 |
| 28 | 363 | 296 | 345 | 339 | 315 | 325 | 396 | 389 | 393 | 384 | 368 | 378 |
| 29 | 363 | 299 | 349 | 340 | 323 | 331 | 401 | 393 | 396 | 389 | 381 | 386 |
| 30 | 364 | 341 | 358 | 348 | 325 | 333 | 405 | 398 | 401 | 390 | 377 | 383 |
| 31 | --- | --- | --- | --- | --- | e338 | 409 | 400 | 404 | --- | --- | --- |
| MONTH | --- | --- | 436 | --- | --- | 313 | --- | --- | 342 | 462 | 296 | 393 |

e Estimated

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



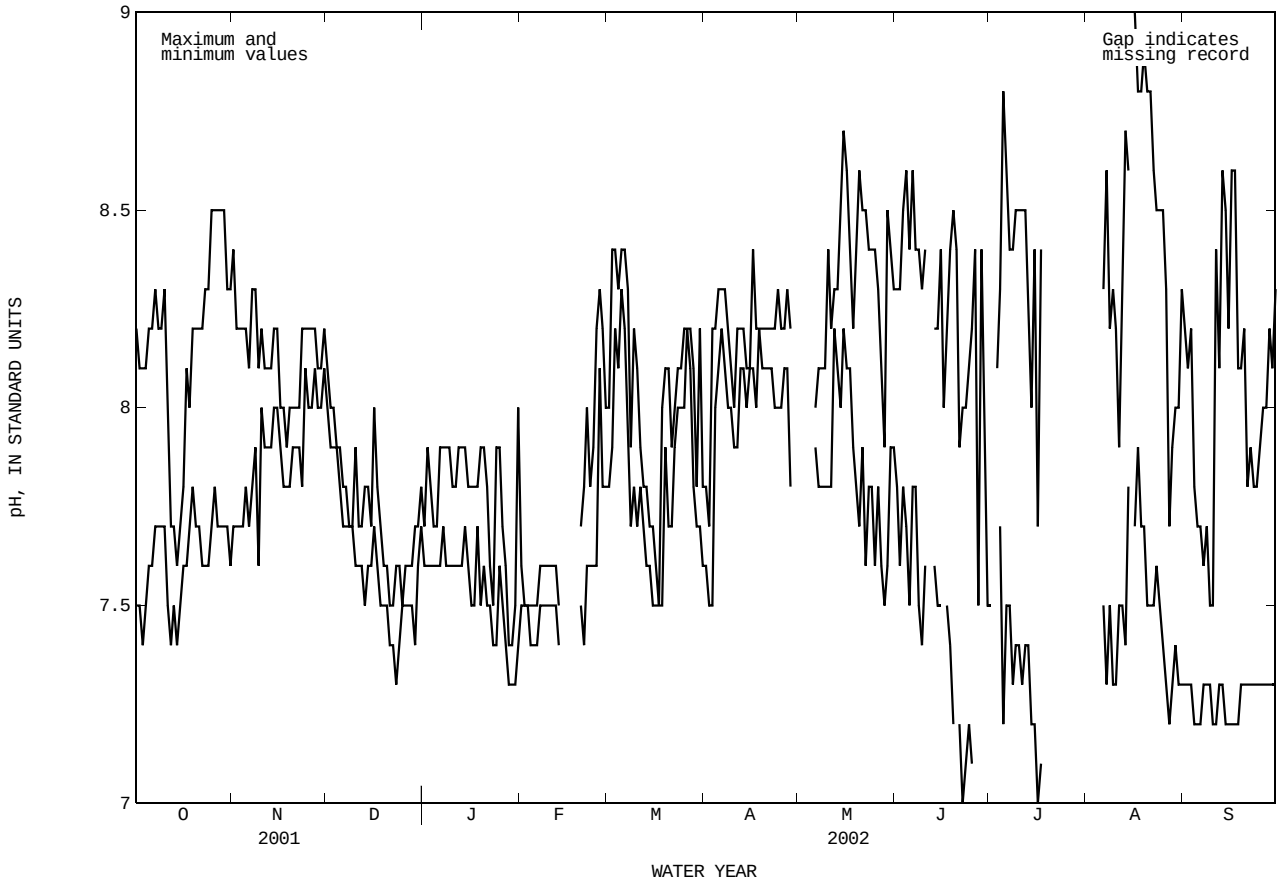

PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

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

PH, WH, FIELD, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 7.8 | 7.6 | --- | --- | 8.3 | 7.8 | 7.5 | --- | --- | --- | 8.2 | 7.3 |
| 2 | 7.7 | 7.5 | --- | --- | 8.3 | 7.6 | --- | --- | --- | --- | 8.1 | 7.3 |
| 3 | 8.2 | 7.5 | --- | --- | 8.5 | 7.8 | 8.1 | --- | --- | --- | 8.2 | 7.3 |
| 4 | 8.2 | 8.0 | --- | --- | 8.6 | 7.7 | 8.3 | 7.7 | --- | --- | 7.8 | 7.2 |
| 5 | 8.3 | 8.1 | --- | --- | 8.4 | 7.5 | 8.8 | 7.2 | --- | --- | 7.7 | 7.2 |
| 6 | 8.3 | 8.2 | 8.0 | 7.9 | 8.6 | 7.8 | 8.6 | 7.5 | 8.3 | 7.5 | 7.7 | 7.2 |
| 7 | 8.3 | 8.1 | 8.1 | 7.8 | 8.4 | 7.8 | 8.4 | 7.5 | 8.6 | 7.3 | 7.6 | 7.3 |
| 8 | 8.2 | 8.0 | 8.1 | 7.8 | 8.4 | 7.5 | 8.4 | 7.3 | 8.2 | 7.5 | 7.7 | 7.3 |
| 9 | 8.1 | 8.0 | 8.1 | 7.8 | 8.3 | 7.4 | 8.5 | 7.4 | 8.3 | 7.3 | 7.5 | 7.3 |
| 10 | 8.0 | 7.9 | 8.4 | 7.8 | 8.4 | 7.6 | 8.5 | 7.4 | 8.2 | 7.3 | 7.5 | 7.2 |
| 11 | 8.2 | 7.9 | 8.2 | 7.8 | --- | --- | 8.5 | 7.3 | 7.9 | 7.5 | 8.4 | 7.2 |
| 12 | 8.2 | 8.1 | 8.3 | 8.2 | --- | --- | 8.5 | 7.4 | 8.3 | 7.5 | 8.1 | 7.3 |
| 13 | 8.2 | 8.1 | 8.3 | 8.1 | 8.2 | 7.6 | 8.3 | 7.4 | 8.7 | 7.4 | 8.6 | 7.3 |
| 14 | 8.1 | 8.0 | 8.5 | 8.0 | 8.2 | 7.5 | 8.0 | 7.2 | 8.6 | 7.8 | 8.5 | 7.2 |
| 15 | 8.1 | 8.1 | 8.7 | 8.2 | 8.4 | 7.5 | 8.4 | 7.2 | --- | --- | 8.2 | 7.2 |
| 16 | 8.4 | 8.1 | 8.6 | 8.1 | 8.0 | --- | 7.7 | 7.0 | 9.0 | 7.7 | 8.6 | 7.2 |
| 17 | 8.2 | 8.0 | 8.4 | 8.1 | 8.2 | 7.5 | 8.4 | 7.1 | 8.8 | 7.9 | 8.6 | 7.2 |
| 18 | 8.2 | 8.2 | 8.2 | 7.9 | 8.4 | 7.4 | --- | --- | 8.8 | 7.7 | 8.1 | 7.2 |
| 19 | 8.2 | 8.1 | 8.4 | 7.8 | 8.5 | 7.2 | --- | --- | 8.9 | 7.7 | 8.1 | 7.3 |
| 20 | 8.2 | 8.1 | 8.6 | 7.7 | 8.4 | --- | --- | --- | 8.8 | 7.5 | 8.2 | 7.3 |
| 21 | 8.2 | 8.1 | 8.5 | 7.9 | 7.9 | 7.2 | --- | --- | 8.8 | 7.5 | 7.8 | 7.3 |
| 22 | 8.2 | 8.1 | 8.5 | 7.6 | 8.0 | 7.0 | --- | --- | 8.6 | 7.5 | 7.9 | 7.3 |
| 23 | 8.2 | 8.0 | 8.4 | 7.8 | 8.0 | 7.1 | --- | --- | 8.5 | 7.6 | 7.8 | 7.3 |
| 24 | 8.3 | 8.0 | 8.4 | 7.8 | 8.1 | 7.2 | --- | --- | 8.5 | 7.5 | 7.8 | 7.3 |
| 25 | 8.2 | 8.0 | 8.4 | 7.6 | 8.2 | 7.1 | --- | --- | 8.5 | 7.4 | 7.9 | 7.3 |
| 26 | 8.2 | 8.1 | 8.3 | 7.8 | 8.4 | --- | --- | --- | 8.3 | 7.3 | 8.0 | 7.3 |
| 27 | 8.3 | 8.1 | 8.1 | 7.6 | 7.5 | 7.0 | --- | --- | 7.7 | 7.2 | 8.0 | 7.3 |
| 28 | 8.2 | 7.8 | 7.9 | 7.5 | 8.4 | --- | --- | --- | 7.9 | 7.3 | 8.2 | 7.3 |
| 29 | --- | --- | 8.5 | 7.6 | 8.1 | 7.0 | --- | --- | 8.0 | 7.4 | 8.1 | 7.3 |
| 30 | --- | --- | 8.4 | 7.9 | 7.5 | --- | --- | --- | 8.0 | 7.3 | 8.3 | 7.3 |
| 31 | --- | --- | 8.3 | 7.9 | --- | --- | --- | --- | 8.3 | 7.3 | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.6 | 7.2 |



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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

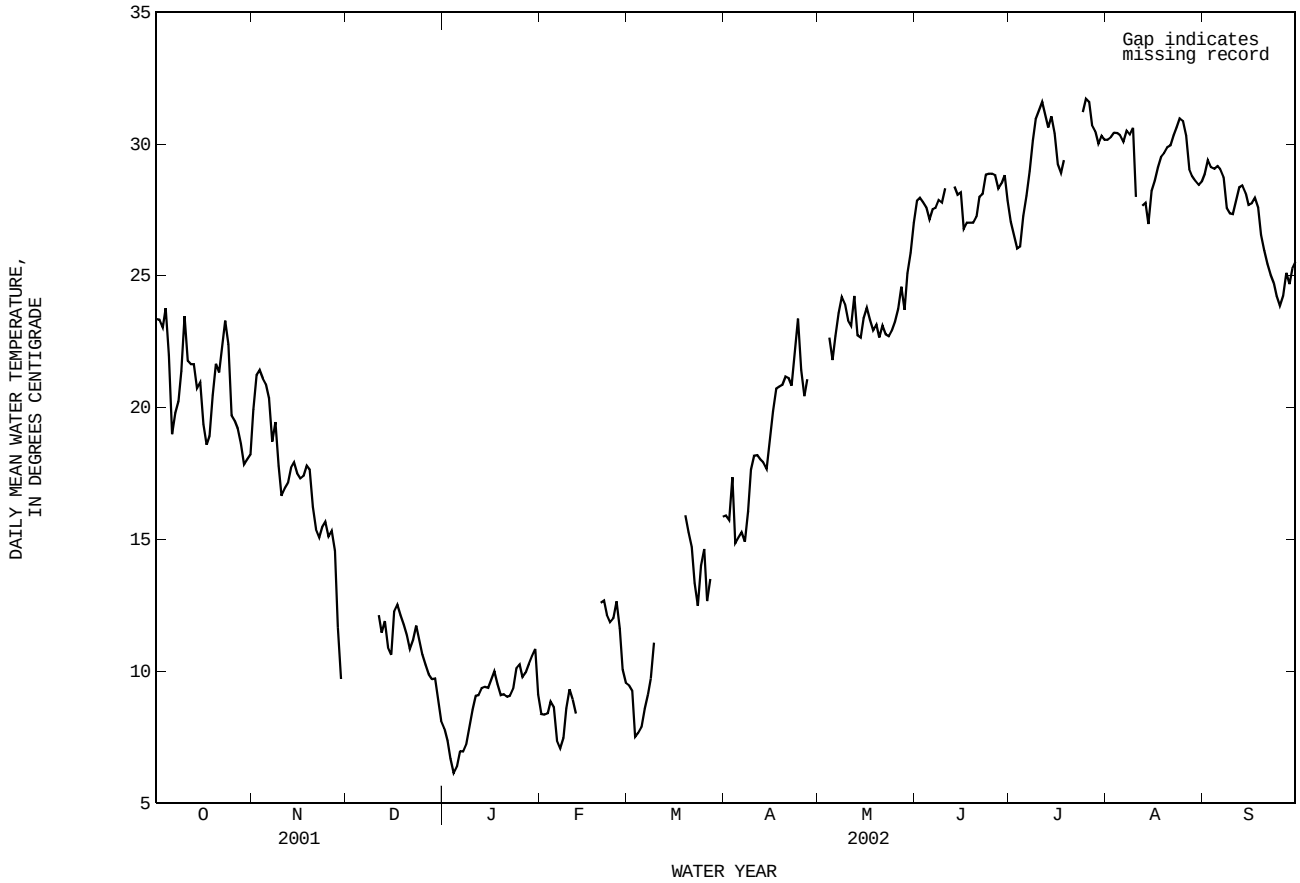
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 26.9 | 20.5 | 23.4 | 22.9 | 17.9 | 19.9 | --- | --- | --- | 8.0 | 7.6 | 7.8 |
| 2 | 26.9 | 20.8 | 23.3 | 23.7 | 19.8 | 21.2 | --- | --- | --- | 7.8 | 6.7 | 7.4 |
| 3 | 26.1 | 20.7 | 23.1 | 24.3 | 19.4 | 21.4 | --- | --- | --- | 7.3 | 5.9 | 6.7 |
| 4 | 27.2 | 21.5 | 23.8 | 23.7 | 19.7 | 21.1 | --- | --- | --- | 6.6 | 5.8 | 6.1 |
| 5 | 23.4 | 18.8 | 22.0 | 23.9 | 19.2 | 20.9 | --- | --- | --- | 6.7 | 6.1 | 6.4 |
| 6 | 22.2 | 16.6 | 19.0 | 23.0 | 18.2 | 20.4 | --- | --- | --- | 7.3 | 6.7 | 7.0 |
| 7 | 23.7 | 17.3 | 19.8 | 21.5 | 17.1 | 18.7 | --- | --- | --- | 7.2 | 6.8 | 7.0 |
| 8 | 22.9 | 18.7 | 20.2 | 21.4 | 17.3 | 19.5 | --- | --- | --- | 7.6 | 6.9 | 7.2 |
| 9 | 23.6 | 20.2 | 21.4 | 20.8 | 15.6 | 17.8 | --- | --- | --- | 8.2 | 7.6 | 7.9 |
| 10 | 26.7 | 21.8 | 23.5 | 18.4 | 15.5 | 16.7 | --- | --- | --- | 9.1 | 8.1 | 8.5 |
| 11 | 23.3 | 20.4 | 21.8 | 17.4 | 16.4 | 16.9 | 12.4 | 11.4 | 12.1 | 9.2 | 8.9 | 9.1 |
| 12 | 22.4 | 21.4 | 21.7 | 18.1 | 16.4 | 17.1 | 11.8 | 11.2 | 11.5 | 9.2 | 9.0 | 9.1 |
| 13 | 22.0 | 21.4 | 21.6 | 18.9 | 17.0 | 17.7 | 12.1 | 11.5 | 11.9 | 9.8 | 9.0 | 9.4 |
| 14 | 21.6 | 20.1 | 20.7 | 19.0 | 17.1 | 17.9 | 11.5 | 10.3 | 10.9 | 9.6 | 9.3 | 9.4 |
| 15 | 22.3 | 19.9 | 21.0 | 17.9 | 17.1 | 17.5 | 11.3 | 10.3 | 10.6 | 9.5 | 9.2 | 9.4 |
| 16 | 21.4 | 17.2 | 19.4 | 17.6 | 17.1 | 17.3 | 12.7 | 11.3 | 12.3 | 10.1 | 9.4 | 9.7 |
| 17 | 21.5 | 16.0 | 18.6 | 17.7 | 17.1 | 17.4 | 12.8 | 12.2 | 12.5 | 10.1 | 9.9 | 10.0 |
| 18 | 22.2 | 16.1 | 18.9 | 17.9 | 17.6 | 17.8 | 12.6 | 11.8 | 12.1 | 9.9 | 9.2 | 9.5 |
| 19 | 23.7 | 17.7 | 20.5 | 18.0 | 17.1 | 17.7 | 11.9 | 11.7 | 11.8 | 9.3 | 8.9 | 9.1 |
| 20 | 25.0 | 19.5 | 21.7 | 17.1 | 15.9 | 16.2 | 11.7 | 10.9 | 11.4 | 9.6 | 8.9 | 9.1 |
| 21 | 24.4 | 19.4 | 21.3 | 16.0 | 15.1 | 15.4 | 11.1 | 10.5 | 10.9 | 9.2 | 8.9 | 9.0 |
| 22 | 25.1 | 20.4 | 22.4 | 15.2 | 15.0 | 15.1 | 11.8 | 10.6 | 11.2 | 9.2 | 9.0 | 9.1 |
| 23 | 26.1 | 21.7 | 23.3 | 16.2 | 15.2 | 15.5 | 11.8 | 11.5 | 11.7 | 9.6 | 9.2 | 9.3 |
| 24 | 24.5 | 20.1 | 22.4 | 16.2 | 15.4 | 15.7 | 11.5 | 10.6 | 11.2 | 10.8 | 9.6 | 10.1 |
| 25 | 22.5 | 17.4 | 19.7 | 15.5 | 15.0 | 15.1 | 11.0 | 10.3 | 10.6 | 10.5 | 9.8 | 10.3 |
| 26 | 22.8 | 17.2 | 19.5 | 15.7 | 15.0 | 15.3 | 10.9 | 10.0 | 10.3 | 10.0 | 9.6 | 9.8 |
| 27 | 22.2 | 17.7 | 19.2 | 15.5 | 13.7 | 14.6 | 10.1 | 9.8 | 9.9 | 10.2 | 9.8 | 10 |
| 28 | 22.0 | 16.9 | 18.6 | 13.7 | 9.9 | 11.7 | 9.9 | 9.5 | 9.7 | 10.5 | 10.0 | 10.3 |
| 29 | 21.1 | 16.1 | 17.8 | 10.4 | 9.3 | 9.7 | 10.0 | 9.4 | 9.7 | 10.7 | 10.4 | 10.6 |
| 30 | 21.5 | 15.5 | 18.0 | --- | --- | --- | 9.5 | 8.5 | 8.9 | 12.2 | 10.7 | 10.8 |
| 31 | 20.1 | 16.4 | 18.2 | --- | --- | --- | 8.6 | 8.0 | 8.1 | 12.2 | 8.0 | 9.1 |
| MONTH | 27.2 | 15.5 | 20.8 | --- | --- | --- | --- | --- | --- | 12.2 | 5.8 | 8.8 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 8.8 | 8.0 | 8.4 | 9.7 | 9.3 | 9.5 | 16.4 | 15.7 | 15.9 | --- | --- | --- |
| 2 | 8.9 | 8.0 | 8.4 | 10.1 | 8.1 | 9.3 | 16.2 | 15.7 | 15.7 | --- | --- | --- |
| 3 | 8.7 | 8.1 | 8.4 | 8.1 | 7.2 | 7.5 | 18.3 | 15.2 | 17.4 | 25.6 | --- | --- |
| 4 | 9.1 | 8.7 | 8.9 | 8.1 | 7.3 | 7.7 | 15.3 | 14.5 | 14.9 | 25.6 | 19.2 | 22.7 |
| 5 | 9.7 | 7.7 | 8.7 | 8.5 | 7.4 | 7.9 | 15.8 | 14.4 | 15.1 | 24.0 | 20.3 | 21.8 |
| 6 | 8.0 | 6.8 | 7.4 | 9.2 | 8.1 | 8.6 | 15.6 | 14.5 | 15.3 | 24.2 | 21.7 | 22.7 |
| 7 | 7.5 | 6.8 | 7.1 | 9.4 | 8.9 | 9.1 | 16.2 | 13.7 | 14.9 | 25.0 | 22.6 | 23.6 |
| 8 | 8.0 | 7.0 | 7.5 | 10.1 | 9.4 | 9.7 | 17.2 | 15.3 | 16.1 | 25.5 | 23.2 | 24.2 |
| 9 | 10.1 | 7.9 | 8.6 | 12.5 | 10.0 | 11.1 | 19.6 | 16.3 | 17.7 | 24.6 | 21.0 | 23.9 |
| 10 | 9.9 | 9.0 | 9.3 | --- | --- | --- | 19.6 | 17.6 | 18.2 | 24.9 | 19.0 | 23.3 |
| 11 | 9.3 | 8.3 | 8.9 | --- | --- | --- | 19.0 | 17.4 | 18.2 | 24.1 | 22.1 | 23.1 |
| 12 | 8.6 | 8.3 | 8.4 | --- | --- | --- | 19.1 | 17.3 | 18.0 | 24.7 | 23.6 | 24.2 |
| 13 | --- | --- | --- | --- | --- | --- | 18.4 | 17.1 | 17.9 | 23.6 | 21.9 | 22.8 |
| 14 | --- | --- | --- | --- | --- | --- | 18.4 | 17.0 | 17.7 | 23.8 | 22.1 | 22.7 |
| 15 | --- | --- | --- | --- | --- | --- | 19.2 | 18.2 | 18.7 | 24.8 | 22.5 | 23.4 |
| 16 | --- | --- | --- | --- | --- | --- | 21.1 | 19.2 | 19.9 | 25.4 | 22.6 | 23.8 |
| 17 | --- | --- | --- | --- | --- | --- | 21.3 | 20.1 | 20.7 | 24.3 | 20.5 | 23.3 |
| 18 | --- | --- | --- | --- | --- | --- | 21.0 | 20.5 | 20.8 | 23.9 | 22.3 | 22.9 |
| 19 | 12.9 | --- | --- | 16.4 | 15.4 | 15.9 | 21.4 | 20.5 | 20.9 | 24.6 | 22.3 | 23.1 |
| 20 | 12.8 | 12.4 | 12.6 | 15.6 | 14.9 | 15.3 | 21.9 | 20.7 | 21.2 | 23.9 | 21.5 | 22.7 |
| 21 | 12.9 | 12.6 | 12.7 | 15.2 | 14.2 | 14.7 | 21.4 | 20.8 | 21.1 | 24.2 | 22.4 | 23.1 |
| 22 | 12.6 | 11.9 | 12.1 | 14.4 | 11.9 | 13.4 | 21.7 | 20.2 | 20.8 | 24.0 | 22.0 | 22.8 |
| 23 | 11.9 | 11.8 | 11.9 | 13.5 | 11.7 | 12.5 | 24.8 | 20.5 | 22.2 | 23.7 | 22.1 | 22.7 |
| 24 | 12.3 | 11.9 | 12.0 | 15.3 | 13.1 | 14.0 | 26.0 | 21.7 | 23.4 | 23.8 | 22.5 | 22.9 |
| 25 | 13.3 | 12.1 | 12.7 | 15.1 | 13.5 | 14.6 | 21.9 | 20.9 | 21.4 | 25.0 | 22.5 | 23.3 |
| 26 | 12.7 | 10.7 | 11.6 | 13.5 | 12.1 | 12.7 | 21.3 | 19.6 | 20.4 | 25.1 | 23.0 | 23.7 |
| 27 | 10.7 | 9.5 | 10.1 | 14.4 | 12.7 | 13.5 | 22.5 | 20.0 | 21.1 | 25.5 | 23.5 | 24.6 |
| 28 | 9.8 | 9.3 | 9.6 | --- | --- | --- | --- | --- | --- | 24.4 | 23.2 | 23.7 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 27.9 | 23.5 | 25.1 |
| 30 | --- | --- | --- | 17.2 | --- | --- | --- | --- | --- | 26.8 | 24.9 | 25.9 |
| 31 | --- | --- | --- | 16.5 | 15.6 | 15.9 | --- | --- | --- | 27.8 | 26.4 | 27.0 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 28.7 | 27.1 | 27.9 | 27.7 | 26.4 | 27.0 | 31.8 | 29.0 | 30.2 | 31.1 | 28.0 | 28.9 |
| 2 | 29.0 | 26.9 | 28.0 | 27.0 | 26.0 | 26.5 | 31.6 | 29.0 | 30.3 | 31.5 | 28.2 | 29.4 |
| 3 | 29.1 | 27.0 | 27.8 | 26.7 | 24.2 | 26.0 | 31.6 | 29.6 | 30.4 | 30.7 | 28.5 | 29.1 |
| 4 | 28.9 | 26.8 | 27.6 | 27.0 | 25.4 | 26.1 | 31.9 | 29.7 | 30.4 | 29.8 | 28.5 | 29.1 |
| 5 | 28.3 | 26.3 | 27.1 | 29.0 | 26.5 | 27.3 | 31.7 | 29.8 | 30.3 | 29.6 | 28.6 | 29.2 |
| 6 | 29.1 | 26.5 | 27.5 | 29.3 | 26.9 | 28.0 | 30.9 | 29.4 | 30.1 | 29.5 | 28.6 | 29.1 |
| 7 | 28.6 | 26.9 | 27.6 | 30.2 | 28.4 | 29.0 | 31.7 | 29.6 | 30.5 | 29.1 | 28.5 | 28.8 |
| 8 | 29.0 | 27.0 | 27.9 | 31.7 | 29.4 | 30.1 | 31.0 | 29.9 | 30.4 | 28.5 | 26.5 | 27.6 |
| 9 | 29.2 | 26.7 | 27.8 | 32.0 | 30.2 | 31.0 | 32.3 | 29.4 | 30.6 | 27.9 | 26.9 | 27.4 |
| 10 | 29.3 | 27.3 | 28.3 | 32.2 | 30.5 | 31.3 | 30.7 | 25.1 | 28.0 | 28.0 | 26.9 | 27.4 |
| 11 | --- | --- | --- | 33.2 | 30.2 | 31.6 | --- | 25.6 | --- | 29.7 | 26.8 | 27.8 |
| 12 | 29.6 | --- | --- | 32.7 | 30.3 | 31.1 | 29.8 | 25.9 | 27.7 | 29.5 | 27.5 | 28.4 |
| 13 | 30.3 | 27.7 | 28.4 | 31.5 | 30.0 | 30.6 | 29.6 | 26.3 | 27.8 | 30.2 | 27.4 | 28.4 |
| 14 | 28.7 | 27.4 | 28.1 | 32.8 | 29.9 | 31.0 | 28.3 | 24.9 | 27.0 | 29.9 | 27.3 | 28.1 |
| 15 | 29.4 | 27.4 | 28.2 | 31.4 | 29.7 | 30.4 | 29.6 | 27.6 | 28.2 | 28.6 | 27.1 | 27.7 |
| 16 | 28.4 | 25.0 | 26.8 | 29.7 | 28.9 | 29.2 | 30.3 | 27.3 | 28.6 | 28.7 | 27.2 | 27.7 |
| 17 | 27.8 | 26.4 | 27.0 | 29.7 | 28.3 | 28.9 | 30.5 | 28.1 | 29.1 | 29.3 | 27.0 | 28.0 |
| 18 | 28.4 | 26.4 | 27.0 | 30.8 | 28.3 | 29.4 | 31.4 | 28.0 | 29.5 | 28.5 | 26.9 | 27.6 |
| 19 | 28.9 | 26.0 | 27.0 | --- | 28.4 | --- | 31.2 | 28.5 | 29.7 | 27.5 | 25.7 | 26.6 |
| 20 | 29.2 | 26.2 | 27.2 | --- | --- | --- | 31.5 | 28.6 | 29.9 | 27.3 | 25.0 | 26.0 |
| 21 | 28.7 | 27.5 | 28.0 | --- | --- | --- | 31.7 | 28.6 | 29.9 | 26.6 | 24.8 | 25.5 |
| 22 | 29.0 | 27.2 | 28.1 | --- | --- | --- | 32.6 | 28.9 | 30.3 | 25.5 | 24.6 | 25.0 |
| 23 | 30.6 | 27.8 | 28.8 | 32.9 | --- | --- | 33.0 | 29.1 | 30.6 | 25.0 | 24.4 | 24.7 |
| 24 | 29.9 | 28.1 | 28.9 | 33.2 | 29.7 | 31.2 | 32.8 | 29.7 | 31.0 | 24.5 | 23.9 | 24.2 |
| 25 | 30.4 | 27.8 | 28.9 | 33.2 | 30.5 | 31.7 | 32.9 | 29.8 | 30.9 | 24.4 | 23.5 | 23.9 |
| 26 | 30.3 | 28.0 | 28.8 | 32.7 | 30.7 | 31.6 | 32.3 | 29.5 | 30.3 | 25.1 | 23.5 | 24.2 |
| 27 | 29.1 | 27.7 | 28.3 | 31.9 | 29.8 | 30.7 | 29.6 | 28.6 | 29.1 | 28.2 | 23.9 | 25.1 |
| 28 | 29.5 | 28.1 | 28.5 | 31.3 | 29.7 | 30.5 | 29.6 | 28.3 | 28.8 | 26.7 | 23.9 | 24.7 |
| 29 | 30.0 | 28.1 | 28.8 | 30.7 | 29.3 | 30.0 | 29.2 | 28.2 | 28.6 | 27.6 | 23.8 | 25.3 |
| 30 | 28.4 | 26.8 | 27.9 | 31.5 | 29.4 | 30.3 | 28.8 | 28.0 | 28.5 | 26.9 | 24.5 | 25.5 |
| 31 | --- | --- | --- | 31.5 | 28.8 | 30.2 | 30.3 | 27.9 | 28.6 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | 24.9 | --- | 31.5 | 23.5 | 27.0 |



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

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

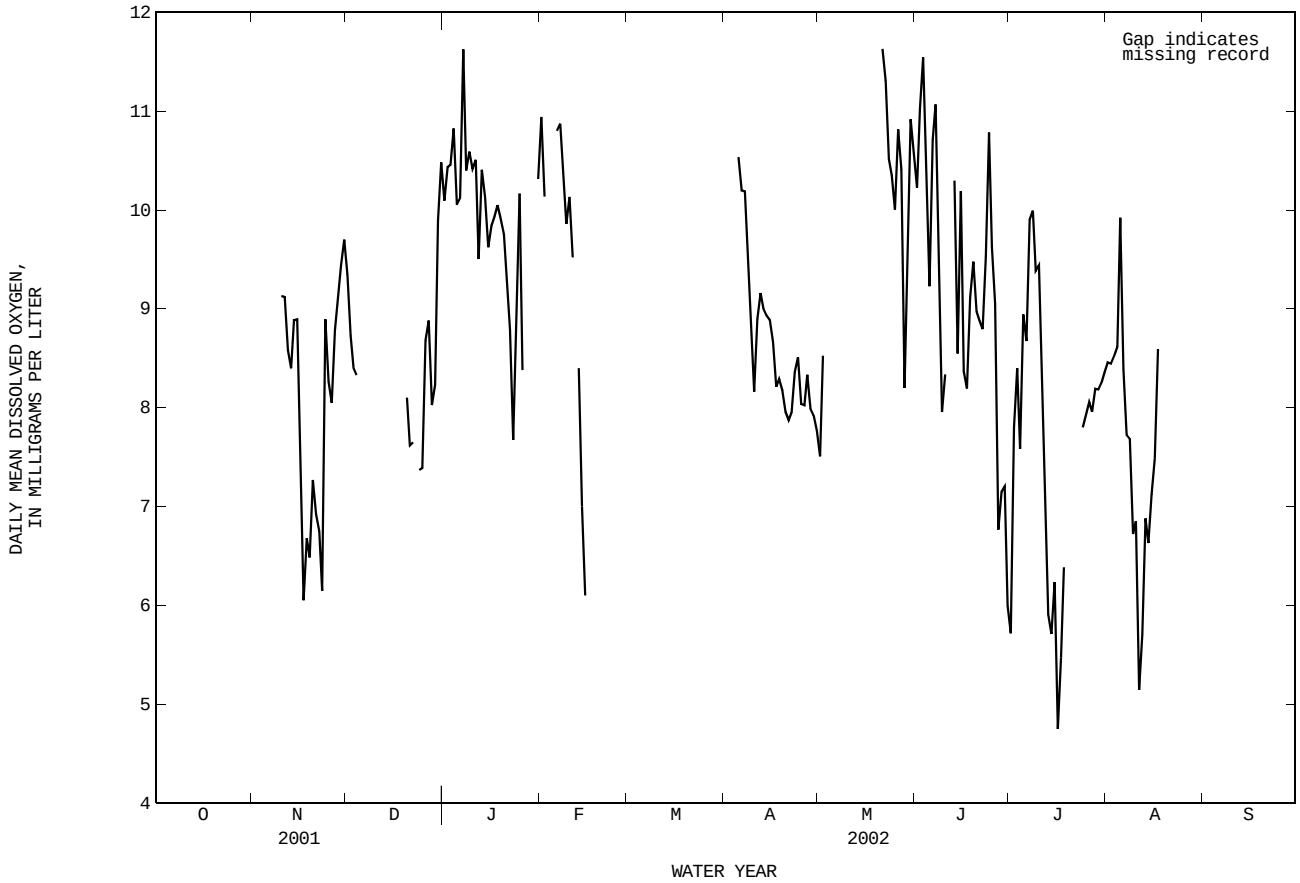
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | --- | --- | --- | --- | --- | --- | 9.8 | 8.7 | 9.3 | 10.8 | 9.3 | 10.1 |
| 2 | --- | --- | --- | --- | --- | --- | 9.0 | 8.2 | 8.7 | 11.7 | 9.1 | 10.4 |
| 3 | --- | --- | --- | --- | --- | --- | 8.7 | 8.3 | 8.4 | 11.5 | 9.6 | 10.5 |
| 4 | --- | --- | --- | --- | --- | --- | 8.5 | 8.2 | 8.3 | 11.1 | 10.5 | 10.8 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.7 | 9.4 | 10.1 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.0 | 8.9 | 10.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.0 | 10.4 | 11.6 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.7 | 9.3 | 10.4 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.6 | 8.9 | 10.6 |
| 10 | --- | --- | --- | 10.0 | 8.5 | 9.1 | --- | --- | --- | 11.1 | 9.7 | 10.4 |
| 11 | --- | --- | --- | 9.8 | 8.5 | 9.1 | --- | --- | --- | 11.2 | 9.3 | 10.5 |
| 12 | --- | --- | --- | 8.9 | 8.3 | 8.6 | --- | --- | --- | 10.7 | 8.5 | 9.5 |
| 13 | --- | --- | --- | 9.1 | 8.0 | 8.4 | --- | --- | --- | 11.4 | 8.9 | 10.4 |
| 14 | --- | --- | --- | 9.4 | 8.3 | 8.9 | --- | --- | --- | 11.3 | 9.4 | 10.1 |
| 15 | --- | --- | --- | 9.2 | 8.6 | 8.9 | --- | --- | --- | 10.5 | 8.5 | 9.6 |
| 16 | --- | --- | --- | 8.6 | 6.1 | 7.2 | --- | --- | --- | 10.5 | 8.8 | 9.8 |
| 17 | --- | --- | --- | 7.4 | 4.9 | 6.1 | --- | --- | --- | 10.7 | 8.7 | 9.9 |
| 18 | --- | --- | --- | 7.3 | 6.1 | 6.7 | --- | --- | --- | 10.4 | 9.3 | 10.0 |
| 19 | --- | --- | --- | 7.4 | 4.8 | 6.5 | --- | --- | --- | 10.7 | 8.5 | 9.9 |
| 20 | --- | --- | --- | 7.8 | 6.4 | 7.3 | 8.4 | 7.6 | 8.1 | 10.6 | 8.5 | 9.8 |
| 21 | --- | --- | --- | 7.3 | 6.3 | 6.9 | 8.2 | 7.0 | 7.6 | 9.9 | 8.8 | 9.3 |
| 22 | --- | --- | --- | 7.4 | 6.0 | 6.8 | 8.2 | 6.9 | 7.7 | 9.2 | 8.2 | 8.8 |
| 23 | --- | --- | --- | 7.8 | 5.6 | 6.1 | 8.0 | --- | --- | 8.5 | 7.2 | 7.7 |
| 24 | --- | --- | --- | 9.2 | 7.8 | 8.9 | 8.0 | 6.4 | 7.4 | 11.0 | 7.1 | 8.8 |
| 25 | --- | --- | --- | 8.8 | 7.9 | 8.3 | 7.6 | 7.2 | 7.4 | 11.0 | 8.7 | 10.2 |
| 26 | --- | --- | --- | 8.8 | 7.5 | 8.0 | 9.1 | 7.4 | 8.7 | 9.0 | 7.5 | 8.4 |
| 27 | --- | --- | --- | 9.0 | 8.4 | 8.8 | 9.2 | 7.7 | 8.9 | --- | --- | --- |
| 28 | --- | --- | --- | 9.7 | 8.7 | 9.1 | 8.7 | 7.5 | 8.0 | --- | --- | --- |
| 29 | --- | --- | --- | 9.8 | 9.2 | 9.4 | 9.8 | 6.9 | 8.2 | --- | --- | --- |
| 30 | --- | --- | --- | 10.1 | 9.3 | 9.7 | 10.4 | 9.1 | 9.9 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | 10.9 | 10.0 | 10.5 | 11.3 | 4.4 | 10.3 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 11.1 | 10.6 | 10.9 | --- | --- | --- | --- | --- | --- | 8.2 | 6.9 | 7.5 |
| 2 | 10.6 | 9.9 | 10.1 | --- | --- | --- | --- | --- | --- | 9.5 | 7.5 | 8.5 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | 11.8 | 9.9 | 10.5 | --- | --- | --- |
| 6 | 11.1 | 10.3 | 10.8 | --- | --- | --- | 10.5 | 9.9 | 10.2 | --- | --- | --- |
| 7 | 11.1 | 10.8 | 10.9 | --- | --- | --- | 10.8 | 9.3 | 10.2 | --- | --- | --- |
| 8 | 10.8 | 10.0 | 10.3 | --- | --- | --- | 10.0 | 8.4 | 9.4 | --- | --- | --- |
| 9 | 10.2 | 9.5 | 9.9 | --- | --- | --- | 8.9 | 8.4 | 8.7 | --- | --- | --- |
| 10 | 10.3 | 9.9 | 10.1 | --- | --- | --- | 8.5 | 7.9 | 8.2 | --- | --- | --- |
| 11 | 9.9 | 9.3 | 9.5 | --- | --- | --- | 9.4 | 8.2 | 8.9 | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | 9.3 | 8.9 | 9.2 | --- | --- | --- |
| 13 | 8.7 | 7.8 | 8.4 | --- | --- | --- | 9.2 | 8.7 | 9.0 | --- | --- | --- |
| 14 | 7.8 | 6.5 | 7.0 | --- | --- | --- | 9.2 | 8.4 | 8.9 | --- | --- | --- |
| 15 | 6.6 | 5.4 | 6.1 | --- | --- | --- | 9.2 | 8.6 | 8.9 | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | 9.1 | 8.3 | 8.7 | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | 8.6 | 7.6 | 8.2 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 8.5 | 8.0 | 8.3 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 8.6 | 7.8 | 8.2 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 8.3 | 7.5 | 8.0 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 8.1 | 7.6 | 7.9 | 12.8 | 10.3 | 11.6 |
| 22 | --- | --- | --- | --- | --- | --- | 8.8 | 7.3 | 8.0 | 13.3 | 10.0 | 11.3 |
| 23 | --- | --- | --- | --- | --- | --- | 9.3 | 7.8 | 8.4 | 12.0 | 9.2 | 10.5 |
| 24 | --- | --- | --- | --- | --- | --- | 9.5 | 7.6 | 8.5 | 11.6 | 9.3 | 10.4 |
| 25 | --- | --- | --- | --- | --- | --- | 9.2 | 7.5 | 8.0 | 12.0 | 8.2 | 10.0 |
| 26 | --- | --- | --- | --- | --- | --- | 8.6 | 7.3 | 8.0 | 12.6 | 8.5 | 10.8 |
| 27 | --- | --- | --- | --- | --- | --- | 9.1 | 7.5 | 8.3 | 11.6 | 8.7 | 10.4 |
| 28 | --- | --- | --- | --- | --- | --- | 8.6 | 7.5 | 8.0 | 9.4 | 7.1 | 8.2 |
| 29 | --- | --- | --- | --- | --- | --- | 8.7 | 7.2 | 7.9 | 11.4 | 7.6 | 9.2 |
| 30 | --- | --- | --- | --- | --- | --- | 8.4 | 7.2 | 7.8 | 12.1 | 9.3 | 10.9 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.8 | 9.6 | 10.6 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 12.7 | 8.0 | 10.2 | 8.3 | 4.8 | 5.7 | 9.2 | 8.0 | 8.5 | --- | --- | --- |
| 2 | 13.3 | 7.9 | 11.0 | 9.8 | 5.4 | 7.8 | 9.2 | 8.1 | 8.4 | --- | --- | --- |
| 3 | 14.6 | 9.0 | 11.5 | 9.1 | 7.6 | 8.4 | 9.3 | 8.2 | 8.5 | --- | --- | --- |
| 4 | 13.8 | 6.9 | 10.5 | 9.4 | 6.8 | 7.6 | 9.1 | 8.3 | 8.6 | --- | --- | --- |
| 5 | 11.7 | 6.5 | 9.2 | 12.0 | 5.9 | 8.9 | 13.4 | 8.5 | 9.9 | --- | --- | --- |
| 6 | 13.9 | 8.1 | 10.7 | 11.2 | 6.7 | 8.7 | 11.3 | 5.3 | 8.4 | --- | --- | --- |
| 7 | 14.4 | 9.1 | 11.1 | 13.1 | 7.9 | 9.9 | 12.0 | 3.6 | 7.7 | --- | --- | --- |
| 8 | 13.5 | 5.2 | 9.6 | 13.1 | 6.8 | 10 | 10.1 | 5.3 | 7.7 | --- | --- | --- |
| 9 | 12.5 | 4.2 | 8.0 | 13.6 | 5.7 | 9.4 | 12.5 | 2.8 | 6.7 | --- | --- | --- |
| 10 | 10.2 | 5.9 | 8.3 | 15.3 | 5.1 | 9.4 | 10.3 | 2.7 | 6.8 | --- | --- | --- |
| 11 | --- | --- | --- | 11.3 | 4.7 | 8.3 | 6.6 | 3.3 | 5.1 | --- | --- | --- |
| 12 | 12.7 | --- | --- | 10.6 | 4.9 | 6.8 | 8.0 | 4.2 | 5.7 | --- | --- | --- |
| 13 | 11.9 | 9.0 | 10.3 | 8.4 | 4.7 | 5.9 | 10.9 | 3.9 | 6.9 | --- | --- | --- |
| 14 | 9.8 | 7.3 | 8.5 | 9.3 | 4.5 | 5.7 | 9.2 | 4.4 | 6.6 | --- | --- | --- |
| 15 | 13.4 | 7.0 | 10.2 | 10.2 | 4.0 | 6.2 | 10.8 | 5.2 | 7.1 | --- | --- | --- |
| 16 | 12.9 | 6.8 | 8.4 | 6.8 | 3.8 | 4.7 | 10.7 | 4.3 | 7.5 | --- | --- | --- |
| 17 | 9.8 | 6.7 | 8.2 | 10.3 | 3.7 | 5.5 | 10.9 | 6.0 | 8.6 | --- | --- | --- |
| 18 | 12.6 | 7.0 | 9.1 | 8.3 | 4.1 | 6.4 | --- | --- | --- | --- | --- | --- |
| 19 | 14.8 | 6.4 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 13.8 | 6.6 | 9.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 11.1 | 6.9 | 8.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 11.9 | 6.3 | 8.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 14.9 | 6.2 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 14.3 | 7.9 | 10.8 | 8.3 | 7.3 | 7.8 | --- | --- | --- | --- | --- | --- |
| 25 | 13.4 | 6.6 | 9.6 | 8.4 | 7.4 | 7.9 | --- | --- | --- | --- | --- | --- |
| 26 | 13.2 | 6.7 | 9.0 | 8.5 | 7.6 | 8.1 | --- | --- | --- | --- | --- | --- |
| 27 | 7.8 | 5.9 | 6.8 | 8.7 | 7.4 | 8.0 | --- | --- | --- | --- | --- | --- |
| 28 | 11.6 | 5.9 | 7.1 | 8.7 | 7.7 | 8.2 | --- | --- | --- | --- | --- | --- |
| 29 | 10.5 | 4.8 | 7.2 | 8.7 | 7.6 | 8.2 | --- | --- | --- | --- | --- | --- |
| 30 | 10.6 | 4.1 | 6.0 | 9.1 | 7.8 | 8.3 | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | 9.0 | 7.9 | 8.4 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |



## 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 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1989 to current year.

REVISED RECORDS.--WRD-TX-00-2: Maximum discharge for period of record, 11,4000 $ft^3/s$ at 21.96 ft: Peak discharge WY 2000, 10,600 $ft^3/s$.

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 fair. 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 discontinued 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.39 | 2.3 | 0.50 | 0.22 | 174 | 3.7 | 69 | 9.4 | 7.8 | 79 | 0.00 | 0.00 |
| 2 | 0.42 | 2.3 | 0.38 | 0.23 | 58 | 5.5 | 38 | 7.9 | 6.6 | 52 | 0.00 | 0.00 |
| 3 | 0.56 | 2.5 | 0.23 | 0.21 | 28 | 5.1 | 24 | 65 | 6.0 | 158 | 0.00 | 0.00 |
| 4 | 0.56 | 2.6 | 1.7 | 0.17 | 17 | 3.7 | 19 | 30 | 5.7 | 56 | 0.00 | 0.00 |
| 5 | 1.0 | 2.6 | 2.5 | 0.36 | 146 | 3.5 | 17 | 668 | 5.6 | 10 | 0.00 | 0.00 |
| 6 | 1.7 | 2.5 | 2.0 | 1.3 | 328 | 3.5 | 59 | 105 | 5.2 | 6.0 | 0.00 | 0.00 |
| 7 | 3.6 | 2.5 | 3.7 | 0.47 | 117 | 3.4 | 1650 | 41 | 4.8 | 4.3 | 0.00 | 0.00 |
| 8 | 2.8 | 2.6 | 1.3 | 0.22 | 62 | 3.8 | 1170 | 23 | 4.5 | 3.2 | 1.6 | 16 |
| 9 | 1.8 | 4.0 | 0.53 | 2.5 | 35 | 4.3 | 113 | 18 | 4.2 | 2.6 | 1.1 | 3.2 |
| 10 | 1.4 | 2.7 | 0.23 | 0.31 | 20 | 3.4 | 69 | 2090 | 4.2 | 1.3 | 435 | 0.00 |
| 11 | 58 | 2.6 | 0.17 | 0.26 | 13 | 3.1 | 56 | 144 | 3.7 | 0.75 | 92 | 0.00 |
| 12 | 15 | 14 | 4.7 | 0.42 | 12 | 3.6 | 44 | 84 | 3.3 | 0.80 | 8.0 | 0.00 |
| 13 | 141 | 6.4 | 3.7 | 0.20 | 9.5 | 3.7 | 69 | 84 | 3.2 | 2.6 | 3.1 | 0.00 |
| 14 | 13 | 2.4 | 12 | 0.10 | 8.7 | 3.7 | 86 | 65 | 4.8 | 2.7 | 0.79 | 0.00 |
| 15 | 3.5 | 1.4 | 3.5 | 0.11 | 8.1 | 4.0 | 51 | 41 | 3.4 | 0.53 | 23 | 0.00 |
| 16 | 1.1 | 14 | 271 | 0.12 | 7.2 | 3.9 | 37 | 30 | 45 | 0.92 | 1.7 | 0.00 |
| 17 | 0.08 | 8.8 | 107 | 0.23 | 6.4 | 3.8 | 42 | 195 | 7.5 | 3.1 | 0.00 | 0.00 |
| 18 | 0.11 | 4.8 | 32 | 0.23 | 5.8 | 126 | 31 | 99 | 4.0 | 2.2 | 0.00 | 0.00 |
| 19 | 0.28 | 1.5 | 10 | 0.34 | 5.8 | 2790 | 25 | 47 | 3.3 | 1.2 | 0.00 | 2.0 |
| 20 | 0.26 | 0.28 | 5.3 | 0.15 | 4.8 | 1920 | 23 | 26 | 2.6 | 0.28 | 0.00 | 1.7 |
| 21 | 0.44 | 0.34 | 3.7 | 0.10 | 4.2 | 109 | 21 | 20 | 2.2 | 0.05 | 0.00 | 0.00 |
| 22 | 1.7 | 1.7 | 3.1 | 0.08 | 4.2 | 57 | 19 | 16 | 1.5 | 0.01 | 0.00 | 0.00 |
| 23 | 1.7 | 1.7 | 2.2 | 0.12 | 3.9 | 37 | 17 | 14 | 0.81 | 0.00 | 0.00 | 0.00 |
| 24 | 1.4 | 0.96 | 1.6 | 44 | 3.4 | 29 | 15 | 13 | 0.66 | 0.00 | 0.00 | 0.00 |
| 25 | 1.2 | 0.52 | 0.81 | 31 | 3.5 | 23 | 13 | 12 | 0.50 | 0.00 | 0.00 | 0.00 |
| 26 | 1.2 | 0.74 | 0.69 | 5.0 | 3.3 | 18 | 31 | 13 | 0.46 | 0.00 | 0.00 | 0.00 |
| 27 | 0.92 | 1.5 | 0.43 | 2.8 | 3.0 | 16 | 17 | 12 | 9.9 | 0.00 | 0.00 | 0.00 |
| 28 | 0.75 | 10 | 0.46 | 1.6 | 3.4 | 14 | 13 | 45 | 22 | 0.00 | 0.00 | 0.00 |
| 29 | 0.65 | 13 | 0.89 | 1.2 | --- | 14 | 11 | 37 | 24 | 0.00 | 0.00 | 0.00 |
| 30 | 0.59 | 2.7 | 0.34 | 0.83 | --- | 644 | 14 | 16 | 14 | 0.00 | 0.00 | 0.00 |
| 31 | 1.2 | --- | 0.24 | 2100 | --- | 234 | --- | 9.8 | --- | 0.00 | 0.00 | --- |
| TOTAL | 258.31 | 115.94 | 476.90 | 2194.88 | 1095.2 | 6096.7 | 3863 | 4080.1 | 211.43 | 387.54 | 566.29 | 22.90 |
| MEAN | 8.333 | 3.865 | 15.38 | 70.80 | 39.11 | 196.7 | 128.8 | 131.6 | 7.048 | 12.50 | 18.27 | 0.763 |
| MAX | 141 | 14 | 271 | 2100 | 328 | 2790 | 1650 | 2090 | 45 | 158 | 435 | 16 |
| MIN | 0.08 | 0.28 | 0.17 | 0.08 | 3.0 | 3.1 | 11 | 7.9 | 0.46 | 0.00 | 0.00 | 0.00 |
| AC-FT | 512 | 230 | 946 | 4350 | 2170 | 12090 | 7660 | 8090 | 419 | 769 | 1120 | 45 |

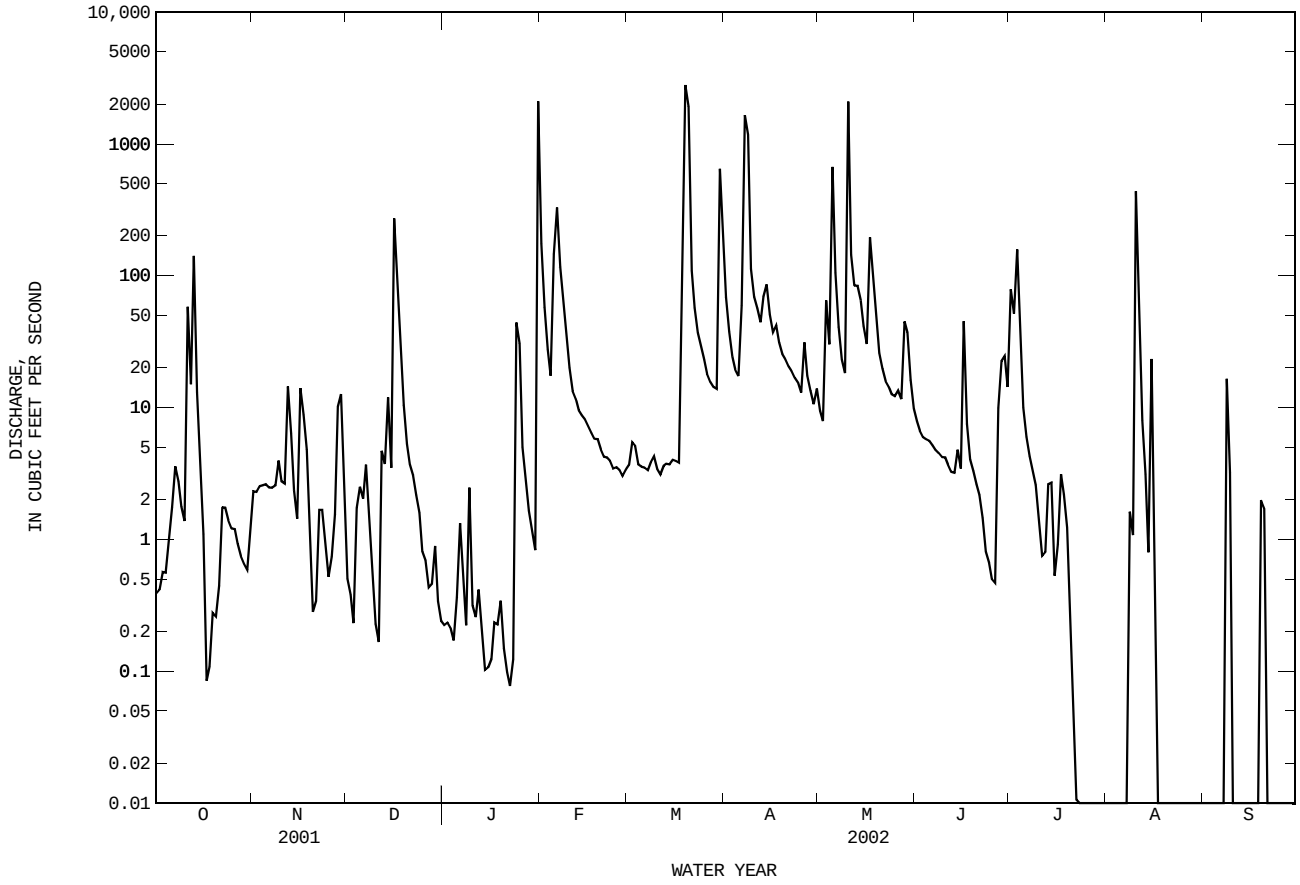
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 30.08 | 16.15 | 42.98 | 28.01 | 64.01 | 69.13 | 57.07 | 71.37 | 45.14 | 5.706 | 7.384 | 4.439 |
| MAX | 240 | 52.1 | 367 | 117 | 165 | 195 | 233 | 339 | 296 | 14.3 | 37.7 | 15.5 |
| (WY) | 1992 | 1995 | 1992 | 1992 | 1997 | 2002 | 1990 | 1990 | 2000 | 1993 | 2001 | 2001 |
| MIN | 0.68 | 0.34 | 0.72 | 0.83 | 1.32 | 1.13 | 2.70 | 0.59 | 0.19 | 0.000 | 0.000 | 0.000 |
| (WY) | 1990 | 2000 | 1991 | 1996 | 1996 | 1996 | 1996 | 1996 | 1998 | 1998 | 1998 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1990 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 13234.69 | | 19369.19 | | | |
| ANNUAL MEAN | 36.26 | | 53.07 | | 36.65 | |
| HIGHEST ANNUAL MEAN | | | | | 92.6 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 1.37 | 1996 |
| HIGHEST DAILY MEAN | 2280 | Feb 16 | 2790 | Mar 19 | 7330 | Jun 4 2000 |
| LOWEST DAILY MEAN | 0.00 | Jul 21 | 0.00 | Jul 23 | 0.00 | Aug 18 1990 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jul 21 | 0.00 | Jul 23 | 0.00 | Aug 25 1990 |
| MAXIMUM PEAK FLOW | | | 8830 | Mar 19 | c11400 | Dec 20 1991 |
| MAXIMUM PEAK STAGE | | | 19.74 | Mar 19 | 21.96 | Dec 20 1991 |
| ANNUAL RUNOFF (AC-FT) | 26250 | | 38420 | | 26550 | |
| 10 PERCENT EXCEEDS | 75 | | 60 | | 47 | |
| 50 PERCENT EXCEEDS | 5.6 | | 3.2 | | 3.4 | |
| 90 PERCENT EXCEEDS | 0.11 | | 0.00 | | 0.00 | |

c From rating curve extended above 7,700 $ft^3/s$ on basis of area-velocity study.

08048970 Village Creek at Everman, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1989 to current year.
BIOCHEMICAL DATA: Oct. 1989 to current year.

PERIOD OF DAILY RECORD.--
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.

INSTRUMENTATION.--Water-quality monitor Oct. 1989 to Sept. 1990.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,000 microsiemens/cm, on several days during Jan. and May 1990; minimum, 129 microsiemens/cm, May 3, 1990.
pH: Maximum, 9.1 units, Jan. 13, 1990; minimum, 7.0 units, Nov. 22, 1989.
WATER TEMPERATURE: Maximum, 34.5°C, July 11, 1990; minimum, 0.5°C, Dec. 22, 1989.
DISSOLVED OXYGEN: Maximum, 20.8 mg/L, Feb. 25, 1990; minimum, 2.4 mg/L, Nov. 8, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 08... | 0910 | 2.4 | 614 | 8.0 | 16.0 | 6.7 | 69 | <2.0 | 190 | 4 | 59.6 | 9.58 | 53.5 |
| FEB | | | | | | | | | | | | | |
| 13... | 0940 | 9.7 | 655 | 8.2 | 7.0 | 12.6 | 105 | <2.0 | 250 | 30 | 83.2 | 9.39 | 47.7 |
| MAR | | | | | | | | | | | | | |
| 21... | 0930 | 110 | 393 | 8.1 | 12.5 | 9.4 | 89 | 5.3 | 150 | 22 | 49.6 | 5.60 | 23.4 |
| MAY | | | | | | | | | | | | | |
| 07... | 1015 | 41 | 500 | 8.0 | 23.5 | 7.2 | 87 | 4.2 | 170 | 30 | 57.3 | 7.51 | 33.3 |
| JUN | | | | | | | | | | | | | |
| 04... | 0930 | 6.0 | 795 | 8.0 | 25.0 | 6.4 | 80 | 2.5 | 250 | 49 | 76.1 | 15.2 | 66.8 |
| AUG | | | | | | | | | | | | | |
| 28... | 1320 | E1.0 | 552 | 8.1 | 29.5 | 7.1 | 94 | 3.3 | 130 | 28 | 38.7 | 7.87 | 56.8 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 08... | 2 | 37 | 4.63 | 1 | 222 | 184 | 56.4 | 47.7 | .4 | 6.2 | -- | 348 | -- |
| FEB | | | | | | | | | | | | | |
| 13... | 1 | 29 | 4.45 | 2 | 259 | 216 | 78.0 | 38.5 | .3 | 8.2 | -- | 407 | -- |
| MAR | | | | | | | | | | | | | |
| 21... | .8 | 25 | 4.81 | <1 | 152 | 127 | 37.5 | 17.1 | .3 | 9.86 | 252 | 227 | 50 |
| MAY | | | | | | | | | | | | | |
| 07... | 1 | 29 | 5.22 | 2 | 170 | 144 | 51.2 | 26.4 | .3 | 9.54 | 291 | 280 | 32 |
| JUN | | | | | | | | | | | | | |
| 04... | 2 | 36 | 3.31 | 1 | 246 | 204 | 111 | 55.9 | .4 | 5.98 | 512 | 458 | 27 |
| AUG | | | | | | | | | | | | | |
| 28... | 2 | 48 | 5.31 | 1 | 120 | 101 | 61.8 | 58.0 | .4 | 5.90 | 308 | 295 | <10 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 08... | -- | <.008 | E.04 | <.04 | -- | .28 | -- | -- | <.06 | .02 | .067 | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | 1.66 | .009 | 1.67 | <.04 | -- | .35 | -- | -- | .100 | .09 | .267 | -- | -- |
| MAR | | | | | | | | | | | | | |
| 21... | .76 | .020 | .78 | .07 | .65 | .72 | -- | -- | .174 | .14 | .442 | 10.0 | 3 |
| MAY | | | | | | | | | | | | | |
| 07... | .60 | .021 | .62 | E.03 | -- | .53 | -- | -- | .11 | .10 | .297 | -- | 2 |
| JUN | | | | | | | | | | | | | |
| 04... | .31 | .009 | .32 | <.04 | -- | .29 | -- | -- | <.06 | <.02 | -- | 5.4 | -- |
| AUG | | | | | | | | | | | | | |
| 28... | -- | <.008 | <.05 | <.04 | -- | .43 | .62 | E.05 | E.04 | <.02 | -- | 6.8 | -- |

08048970 Village Creek at Everman, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 21... | .19 | 2n | 46 | <.06 | <.04 | <.8 | .33 | 2.4 | 26 | E.04 | 5.9 | <.01 | 1.0 |
| MAY | | | | | | | | | | | | | |
| 07... | .20 | E2 | 52 | <.06 | <.04 | <.8 | .35 | 2.0 | 12 | E.04 | 2.1 | <.01 | 1.1 |
| JUN | | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | <10 | -- | E.9n | -- | -- |
| AUG | | | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | 56 | -- | 25.7 | <.01 | -- |

| Date | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|---|---|---|---|
| NOV | | | | | |
| 08... | -- | -- | -- | -- | -- |
| FEB | | | | | |
| 13... | -- | -- | -- | -- | -- |
| MAR | | | | | |
| 21... | 1.31 | E1 | <1 | 2 | .81 |
| MAY | | | | | |
| 07... | 2.19 | <2 | <1 | 3 | .80 |
| JUN | | | | | |
| 04... | -- | -- | -- | -- | -- |
| AUG | | | | | |
| 28... | -- | -- | -- | -- | -- |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
n -- Below the NDV

## 08049200 Lake Arlington at Arlington, TX

LOCATION.--Lat 32°42′58", long 97°11′32", Tarrant County, Hydrologic Unit 12030102, 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 $mi^2$.

PERIOD OF RECORD.--
CHEMICAL DATA: Jan. 1964 to June 2002 (discountinued).
BIOCHEMICAL DATA: Jan. 1964 to June 2002 (discountinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324304097113601 -- Lk Arlington Site AC

| Date | Time | RESERVOIR STORAGE (AC-FT) (00054) | TRANSPARENCY (SECCHI DISK) (M) (00078) | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 1321 | 39100 | .41 | 1.00 | 285 | 8.2 | 12.0 | 9.8 | 92 | 100 | 11 | 35.4 | 3.44 |
| 07... | 1326 | -- | -- | 10.0 | 283 | 8.0 | 11.0 | 9.3 | 85 | -- | -- | -- | -- |
| 07... | 1332 | -- | -- | 20.0 | 279 | 8.0 | 10.5 | 9.2 | 83 | -- | -- | -- | -- |
| 07... | 1338 | -- | -- | 30.0 | 279 | 8.0 | 10.0 | 9.0 | 81 | -- | -- | -- | -- |
| 07... | 1344 | -- | -- | 40.0 | 260 | 7.8 | 10.0 | 6.7 | 60 | -- | -- | -- | -- |
| 07... | 1351 | -- | -- | 45.0 | 250 | 7.7 | 10.0 | 6.0 | 54 | 91 | 9 | 31.7 | 2.95 |
| MAR | | | | | | | | | | | | | |
| 28... | 1248 | 38900 | .55 | 1.00 | 270 | 7.9 | 17.0 | 10.8 | 114 | 100 | 13 | 36.2 | 3.38 |
| 28... | 1253 | -- | -- | 10.0 | 270 | 7.9 | 17.0 | 10.8 | 114 | -- | -- | -- | -- |
| 28... | 1257 | -- | -- | 20.0 | 270 | 7.8 | 16.5 | 10.5 | 110 | -- | -- | -- | -- |
| 28... | 1302 | -- | -- | 30.0 | 270 | 7.8 | 16.0 | 9.9 | 103 | -- | -- | -- | -- |
| 28... | 1306 | -- | -- | 44.0 | 270 | 7.7 | 15.5 | 9.0 | 92 | 110 | 14 | 36.6 | 3.41 |
| JUN | | | | | | | | | | | | | |
| 25... | 1043 | 36900 | 1.46 | 1.00 | 295 | 8.5 | 31.5 | 8.6 | 119 | 100 | 11 | 34.9 | 4.30 |
| 25... | 1048 | -- | -- | 10.0 | 292 | 8.6 | 30.5 | 8.8 | 120 | -- | -- | -- | -- |
| 25... | 1054 | -- | -- | 20.0 | 317 | 7.4 | 27.5 | .8 | 10 | -- | -- | -- | -- |
| 25... | 1100 | -- | -- | 30.0 | 332 | 7.4 | 24.0 | 2.0 | 24 | -- | -- | -- | -- |
| 25... | 1105 | -- | -- | 42.0 | 341 | 7.5 | 22.5 | .2 | 2 | 130 | -- | 45.3 | 4.34 |

324304097113601 -- Lk Arlington Site AC

| Date | SODIUM, DISSOLVED (MG/L AS NA) (00930) | SODIUM ADSORPTION RATIO (00931) | SODIUM PERCENT (00932) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | FLUORIDE, DISSOLVED (MG/L AS F) (00950) | SILICA, DISSOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 13.2 | .6 | 21 | 3.91 | -- | -- | 91 | 28.5 | 10.8 | .2 | 3.8 | 155 | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 11.2 | .5 | 20 | 3.76 | <1 | 100 | 83 | 23.9 | 10.5 | .2 | 5.0 | 140 | .34 |
| MAR | | | | | | | | | | | | | |
| 28... | 13.2 | .6 | 21 | 4.05 | <1 | 111 | 92 | 25.9 | 10.0 | .2 | 4.3 | 153 | .27 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 13.3 | .6 | 21 | 4.06 | <1 | 112 | 92 | 26.0 | 10.1 | .2 | 4.4 | 155 | .27 |
| JUN | | | | | | | | | | | | | |
| 25... | 16.2 | .7 | 24 | 4.34 | 3 | 109 | 95 | 29.4 | 13.5 | .2 | 1.2 | 161 | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 15.0 | .6 | 19 | 4.23 | <1 | 164 | 135 | 18.9 | 12.4 | .2 | 8.5 | 195 | -- |

08049200 Lake Arlington at Arlington, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324304097113601 -- Lk Arlington Site AC

| Date | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | |
| 07... | E.006 | .26 | E.03 | -- | .36 | <.06 | E.01 | -- | <10 | E1.8b |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | .009 | .35 | .16 | .45 | .61 | .06 | .04 | .132 | E10 | 8.6 |
| MAR | | | | | | | | | | |
| 28... | .015 | .29 | .08 | .43 | .51 | E.05 | .05 | .156 | E8 | E1.5n |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .017 | .29 | .13 | .41 | .54 | E.05 | .05 | .150 | E10 | 3.4 |
| JUN | | | | | | | | | | |
| 25... | <.008 | <.05 | <.04 | -- | .34 | <.06 | <.02 | -- | <10 | <2.0 |
| 25... | <.008 | <.05 | <.04 | -- | .32 | <.06 | <.02 | -- | <10 | 7.5 |
| 25... | <.008 | E.04 | <.04 | -- | .32 | <.06 | <.02 | -- | 35 | 37.3 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | <.008 | <.05 | .91 | .50 | 1.4 | .35 | .29 | .892 | 1900 | 1620 |

324320097121101 -- Lk Arlington Site AL

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 07... | 1359 | 1.00 | 284 | 8.2 | 12.0 | 10.0 | 94 |
| 07... | 1401 | 10.0 | 285 | 8.0 | 11.0 | 9.3 | 85 |
| 07... | 1403 | 20.0 | 280 | 8.0 | 10.5 | 9.0 | 81 |
| 07... | 1405 | 34.0 | 280 | 8.0 | 10.0 | 8.8 | 79 |
| MAR | | | | | | | |
| 28... | 1318 | 1.00 | 270 | 8.0 | 17.5 | 9.4 | 101 |
| 28... | 1322 | 10.0 | 270 | 7.9 | 17.0 | 8.6 | 91 |
| 28... | 1327 | 30.0 | 270 | 7.9 | 16.5 | 8.4 | 88 |
| 28... | 1332 | 30.0 | 270 | 7.8 | 16.0 | 8.3 | 86 |
| 28... | 1338 | 36.0 | 271 | 7.7 | 15.5 | 9.0 | 92 |
| JUN | | | | | | | |
| 25... | 1114 | 1.00 | 295 | 8.6 | 31.0 | 7.5 | 103 |
| 25... | 1116 | 10.0 | 292 | 8.5 | 30.5 | 7.5 | 102 |
| 25... | 1119 | 20.0 | 318 | 7.5 | 27.5 | .3 | 4 |
| 25... | 1121 | 31.0 | 329 | 7.5 | 24.5 | .2 | 2 |

324253097121801 -- Lk Arlington Site BC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 07... | 1414 | .30 | 1.00 | 282 | 8.2 | 12.0 | 10.1 | 95 |
| 07... | 1416 | -- | 10.0 | 282 | 8.2 | 12.0 | 10.0 | 94 |
| 07... | 1419 | -- | 20.0 | 279 | 8.0 | 10.5 | 9.0 | 81 |
| 07... | 1421 | -- | 30.0 | 251 | 7.8 | 10.0 | 7.3 | 65 |
| 07... | 1425 | -- | 38.0 | 271 | 7.8 | 9.5 | 7.9 | 70 |
| MAR | | | | | | | | |
| 28... | 1353 | .49 | 1.00 | 271 | 7.8 | 17.0 | 8.1 | 86 |
| 28... | 1355 | -- | 10.0 | 270 | 7.8 | 17.0 | 8.0 | 85 |
| 28... | 1358 | -- | 20.0 | 270 | 7.8 | 16.0 | 7.8 | 81 |
| 28... | 1400 | -- | 30.0 | 270 | 7.8 | 15.5 | 7.6 | 78 |
| 28... | 1402 | -- | 39.0 | 271 | 7.7 | 15.5 | 6.9 | 71 |
| JUN | | | | | | | | |
| 25... | 1130 | .98 | 1.00 | 295 | 8.6 | 31.5 | 7.3 | 101 |
| 25... | 1132 | -- | 10.0 | 297 | 8.3 | 30.0 | 6.4 | 86 |
| 25... | 1134 | -- | 20.0 | 312 | 7.5 | 28.0 | 1.4 | 18 |
| 25... | 1137 | -- | 30.0 | 337 | 7.4 | 24.0 | .2 | 2 |
| 25... | 1140 | -- | 37.0 | 337 | 7.5 | 23.0 | .2 | 2 |

324301097123301 -- Lk Arlington Site BL

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 07... | 1435 | 1.00 | 283 | 8.2 | 12.5 | 10.2 | 97 |
| 07... | 1437 | 10.0 | 278 | 8.0 | 10.5 | 9.1 | 82 |
| 07... | 1440 | 20.0 | 278 | 8.0 | 10.0 | 8.9 | 80 |
| 07... | 1443 | 33.0 | 267 | 7.9 | 10.0 | 8.2 | 73 |
| MAR | | | | | | | |
| 28... | 1415 | 1.00 | 270 | 7.8 | 16.5 | 9.0 | 94 |
| 28... | 1418 | 10.0 | 270 | 7.8 | 16.5 | 10.4 | 109 |
| 28... | 1421 | 20.0 | 270 | 7.8 | 16.0 | 10.4 | 108 |
| 28... | 1424 | 29.0 | 271 | 7.7 | 15.5 | 9.5 | 97 |
| JUN | | | | | | | |
| 25... | 1151 | 1.00 | 293 | 8.6 | 31.5 | 7.7 | 106 |
| 25... | 1155 | 10.0 | 295 | 8.5 | 30.5 | 7.0 | 95 |
| 25... | 1159 | 20.0 | 312 | 7.5 | 28.0 | 1.6 | 21 |
| 25... | 1202 | 30.0 | 333 | 7.4 | 25.5 | .2 | 2 |

324257097130301 -- Lk Arlington Site CC

| Date | Time | TRANSPARENCY (SECCHI DISK) (M) (00078) | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 07... | 1452 | .24 | 1.00 | 278 | 8.0 | 14.5 | 9.0 | 89 |
| 07... | 1454 | -- | 10.0 | 277 | 8.0 | 13.5 | 9.0 | 87 |
| 07... | 1456 | -- | 25.0 | 278 | 8.0 | 13.5 | 9.0 | 87 |
| MAR | | | | | | | | |
| 28... | 1436 | .40 | 1.00 | 271 | 7.8 | 17.5 | 9.3 | 100 |
| 28... | 1439 | -- | 10.0 | 271 | 7.8 | 17.0 | 9.2 | 97 |
| 28... | 1442 | -- | 20.0 | 271 | 7.8 | 17.0 | 9.2 | 97 |
| JUN | | | | | | | | |
| 25... | 1213 | .85 | 1.00 | 296 | 8.4 | 32.0 | 6.5 | 91 |
| 25... | 1216 | -- | 10.0 | 297 | 8.4 | 32.0 | 6.4 | 89 |
| 25... | 1219 | -- | 21.0 | 296 | 8.4 | 32.0 | 6.4 | 89 |

324228097130301 -- Lk Arlington Site DC

| Date | Time | TRANSPARENCY (SECCHI DISK) (M) (00078) | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 07... | 1504 | .27 | 1.00 | 280 | 8.0 | 12.5 | 9.0 | 85 |
| 07... | 1506 | -- | 10.0 | 281 | 8.0 | 10.5 | 9.1 | 82 |
| 07... | 1508 | -- | 22.0 | 278 | 8.0 | 10.5 | 8.8 | 80 |
| MAR | | | | | | | | |
| 28... | 1457 | .40 | 1.00 | 271 | 7.8 | 17.0 | 10.4 | 110 |
| 28... | 1500 | -- | 10.0 | 270 | 7.7 | 15.5 | 9.5 | 97 |
| 28... | 1503 | -- | 21.0 | 271 | 7.7 | 15.5 | 9.4 | 96 |
| JUN | | | | | | | | |
| 25... | 1229 | 1.07 | 1.00 | 294 | 8.6 | 31.5 | 7.6 | 105 |
| 25... | 1232 | -- | 10.0 | 297 | 8.4 | 30.5 | 6.5 | 88 |
| 25... | 1235 | -- | 20.0 | 304 | 7.7 | 29.0 | 3.5 | 46 |

08049200 Lake Arlington at Arlington, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324143097132201 -- Lk Arlington Site EC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) | SODIUM, DISSOLVED (MG/L AS NA) (00930) | SODIUM ADSORPTION RATIO (00931) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 1521 | 1.00 | 288 | 8.3 | 13.5 | 10.0 | 97 | 100 | 14 | 35.8 | 3.49 | 13.3 | .6 |
| 07... | 1526 | 10.0 | 288 | 8.1 | 10.5 | 9.8 | 89 | -- | -- | -- | -- | -- | -- |
| 07... | 1531 | 20.0 | 285 | 8.0 | 9.0 | 9.7 | 85 | -- | -- | -- | -- | -- | -- |
| 07... | 1536 | 26.0 | 285 | 8.0 | 9.0 | 9.9 | 86 | 100 | 11 | 34.8 | 3.53 | 14.1 | .6 |
| MAR | | | | | | | | | | | | | |
| 28... | 1519 | 1.00 | 274 | 7.9 | 16.5 | 9.2 | 96 | 110 | 13 | 36.6 | 3.46 | 13.3 | .6 |
| 28... | 1524 | 10.0 | 272 | 7.8 | 15.5 | 8.7 | 89 | -- | -- | -- | -- | -- | -- |
| 28... | 1528 | 25.0 | 277 | 7.7 | 15.0 | 7.8 | 79 | 110 | 13 | 36.9 | 3.50 | 13.2 | .6 |
| JUN | | | | | | | | | | | | | |
| 25... | 1250 | 1.00 | 292 | 8.7 | 31.5 | 6.9 | 95 | 100 | 12 | 34.9 | 4.30 | 16.0 | .7 |
| 25... | 1258 | 10.0 | 290 | 8.5 | 30.0 | 7.0 | 94 | -- | -- | -- | -- | -- | -- |
| 25... | 1305 | 23.0 | 307 | 7.4 | 28.0 | .2 | 3 | 110 | 8 | 38.2 | 4.16 | 15.3 | .6 |

324143097132201 -- Lk Arlington Site EC

| Date | SODIUM PERCENT (00932) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | FLUORIDE, DISSOLVED (MG/L AS F) (00950) | SILICA, DISSOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 21 | 3.94 | 1 | 108 | 90 | 28.7 | 10.9 | .2 | 3.6 | 155 | -- | E.007 | .25 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 22 | 3.88 | <1 | 110 | 92 | 28.9 | 12.9 | .2 | 4.7 | 159 | .37 | .011 | .38 |
| MAR | | | | | | | | | | | | | |
| 28... | 21 | 4.14 | <1 | 113 | 84 | 26.4 | 10.3 | .2 | 4.8 | 156 | .31 | .013 | .33 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 20 | 4.18 | <1 | 114 | 99 | 26.4 | 10.2 | .2 | 5.1 | 158 | .30 | .032 | .33 |
| JUN | | | | | | | | | | | | | |
| 25... | 24 | 4.27 | 4 | 106 | 94 | 25.8 | 15.1 | .2 | 1.3 | 158 | -- | <.008 | <.05 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.008 | <.05 |
| 25... | 22 | 4.11 | <1 | 128 | 105 | 27.0 | 13.3 | .3 | 3.0 | 169 | -- | E.004 | <.05 |

324143097132201 -- Lk Arlington Site EC

| Date | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) | NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607) | NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOSPHORUS DISSOLVED (MG/L AS P) (00666) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 07... | .04 | .36 | .40 | <.06 | .02 | .064 | 50 | 8.6 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | E.03 | -- | .41 | E.04 | .04 | .126 | <10 | 3.4 |
| MAR | | | | | | | | |
| 28... | .07 | .42 | .49 | .07 | .06 | .172 | 11 | E1.8b |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .13 | .44 | .56 | E.05 | .06 | .181 | 11 | E2.1b |
| JUN | | | | | | | | |
| 25... | <.04 | -- | .34 | <.06 | <.02 | -- | <10 | E.8 |
| 25... | <.04 | -- | .33 | <.06 | <.02 | -- | <10 | 13.3 |
| 25... | .11 | .34 | .45 | <.06 | <.02 | -- | 11 | 430 |

324133097130601 -- Lk Arlington Site EL

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 07... | 1541 | 1.00 | 287 | 8.3 | 13.0 | 10.4 | 100 |
| 07... | 1543 | 10.0 | 287 | 8.1 | 10.5 | 9.8 | 89 |
| 07... | 1545 | 20.0 | 286 | 7.9 | 8.5 | 9.5 | 82 |
| MAR | | | | | | | |
| 28... | 1533 | 1.00 | 275 | 7.9 | 16.5 | 9.9 | 104 |
| 28... | 1536 | 10.0 | 276 | 7.9 | 16.5 | 9.9 | 104 |
| 28... | 1540 | 19.0 | 275 | 7.9 | 16.5 | 9.1 | 95 |
| JUN | | | | | | | |
| 25... | 1316 | 1.00 | 295 | 8.6 | 32.0 | 6.7 | 93 |
| 25... | 1319 | 10.0 | 297 | 8.4 | 30.0 | 5.2 | 70 |
| 25... | 1321 | 17.0 | 313 | 7.4 | 28.0 | .5 | 7 |

324041097134601 -- Lk Arlington Site FC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) | SODIUM, DISSOLVED (MG/L AS NA) (00930) | SODIUM ADSORPTION RATIO (00931) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 1556 | 1.00 | 289 | 8.4 | 13.0 | 10.6 | 102 | -- | -- | -- | -- | -- | -- |
| 07... | 1601 | 10.0 | 282 | 7.9 | 8.0 | 10.2 | 87 | -- | -- | -- | -- | -- | -- |
| 07... | 1607 | 16.0 | 281 | 7.8 | 7.0 | 10.5 | 87 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 28... | 1558 | 1.00 | 281 | 7.9 | 16.5 | 10.1 | 106 | 110 | 16 | 38.3 | 3.65 | 13.7 | .6 |
| 28... | 1603 | 10.0 | 283 | 7.8 | 15.5 | 9.6 | 99 | -- | -- | -- | -- | -- | -- |
| 28... | 1608 | 15.0 | 283 | 7.8 | 15.5 | 9.7 | 100 | 110 | 14 | 38.0 | 3.64 | 13.7 | .6 |
| JUN | | | | | | | | | | | | | |
| 25... | 1337 | 1.00 | 294 | 8.6 | 32.0 | 10.4 | 145 | 110 | 11 | 35.0 | 4.30 | 16.0 | .7 |
| 25... | 1344 | 14.0 | 266 | 7.7 | 28.5 | 7.1 | 93 | 97 | 12 | 32.8 | 3.55 | 13.3 | .6 |

324041097134601 -- Lk Arlington Site FC

| Date | SODIUM PERCENT (00932) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | FLUORIDE, DISSOLVED (MG/L AS F) (00950) | SILICA, DISSOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | -- | -- | 1 | 109 | 92 | -- | -- | -- | -- | -- | -- | E.005 | .24 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | <1 | E117 | 97 | -- | -- | -- | -- | -- | .66 | .021 | .68 |
| MAR | | | | | | | | | | | | | |
| 28... | 20 | 4.21 | <1 | 116 | 96 | 27.1 | 10.5 | .2 | 5.0 | 161 | .32 | .017 | .34 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 21 | 4.25 | <1 | 116 | 96 | 27.3 | 10.6 | .2 | 5.1 | 162 | .33 | .017 | .35 |
| JUN | | | | | | | | | | | | | |
| 25... | 24 | 4.31 | 3 | 109 | 94 | 29.1 | 13.6 | .2 | 1.3 | 160 | -- | <.008 | <.05 |
| 25... | 22 | 3.98 | <1 | E102 | 85 | 24.3 | 12.3 | .2 | 2.5 | 145 | .22 | .019 | .24 |

08049200 Lake Arlington at Arlington, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

324041097134601 -- Lk Arlington Site FC

| Date | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | |
| 07... | <.04 | -- | .35 | E.03 | E.01 | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | .07 | .49 | .56 | .11 | .10 | .319 | -- | -- |
| MAR | | | | | | | | |
| 28... | .07 | .43 | .50 | E.06 | .06 | .169 | 14 | 3.2 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .08 | .45 | .53 | E.05 | .06 | .172 | 13 | 4.8 |
| JUN | | | | | | | | |
| 25... | <.04 | -- | .34 | <.06 | <.02 | -- | <10 | E1.4 |
| 25... | .07 | .39 | .46 | <.06 | <.02 | -- | <10 | 34.4 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
n -- Below the NDV

## 08049500 West Fork Trinity River at Grand Prairie, TX

LOCATION.--Lat 32°45′46", long 96°59′42", Dallas County, Hydrologic Unit 12030102, on left bank at upstream side of bridge on Belt Line Road, 1.3 mi northeast of Grand Prairie, 3.7 mi upstream from Mountain Creek, and at mile 514.6.

DRAINAGE AREA.--3,065 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr. 1925 to current year.

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 present 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 1.5 mi downstream at different datum. Apr. 19 to Aug. 13, 1957, nonrecording gage on bridge at present site and at datum 5.00 ft higher than present datum. Aug. 14, 1957 to Sept. 30, 1982, water-stage recorder at present site and at datum 5.00 ft higher than present datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. 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. The river channel at this station was relocated and rectified in 1956.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

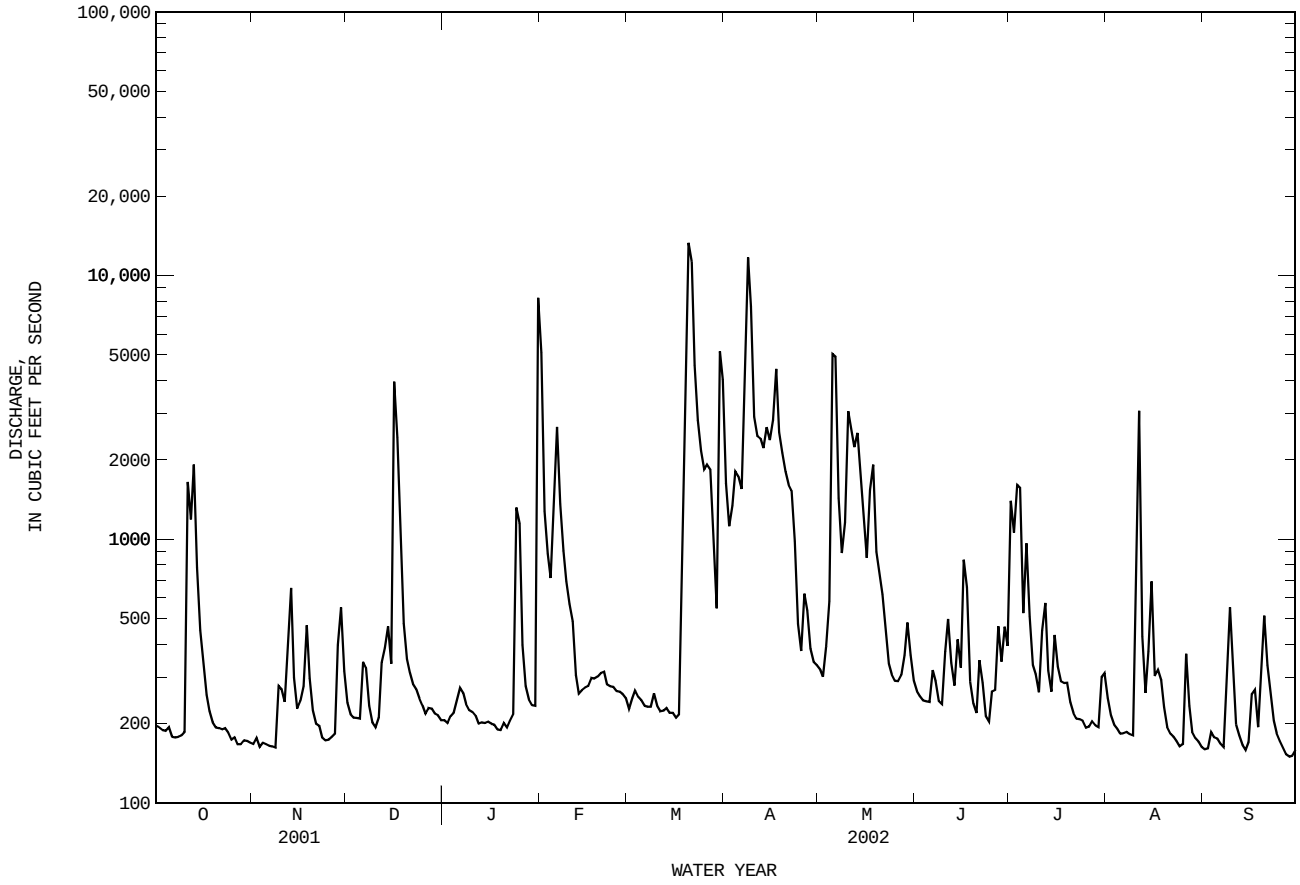
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 196 | 167 | 240 | 206 | 5100 | 227 | 1630 | 321 | 265 | 1400 | 250 | 160 |
| 2 | 193 | 176 | 217 | 201 | 1280 | 249 | 1120 | 301 | 254 | 1060 | 215 | 161 |
| 3 | 189 | 163 | 211 | 213 | 883 | 267 | 1340 | 393 | 245 | 1610 | 198 | 186 |
| 4 | 188 | 169 | 210 | 220 | 714 | 253 | 1810 | 582 | 243 | 1570 | 191 | 177 |
| 5 | 194 | 167 | 209 | 245 | 1480 | 245 | 1730 | 5040 | 242 | 525 | 183 | 175 |
| 6 | 178 | 165 | 343 | 273 | 2660 | 234 | 1550 | 4930 | 319 | 965 | 184 | 168 |
| 7 | 177 | 164 | 326 | 261 | 1360 | 232 | 4880 | 1430 | 290 | 509 | 186 | 163 |
| 8 | 178 | 162 | 234 | 237 | 906 | 232 | 11700 | 887 | 244 | 333 | 182 | 278 |
| 9 | 180 | 278 | 202 | 225 | 693 | 260 | 7630 | 1160 | 237 | 307 | 180 | 552 |
| 10 | 186 | 270 | 194 | 221 | 569 | 234 | 2920 | 3060 | 375 | 263 | 1020 | 345 |
| 11 | 1650 | 242 | 211 | 214 | 489 | 223 | 2470 | 2640 | 499 | 452 | 3070 | 198 |
| 12 | 1190 | 407 | 341 | 200 | 306 | 224 | 2410 | 2240 | 340 | 574 | 428 | 180 |
| 13 | 1920 | 652 | 388 | 202 | 260 | 229 | 2220 | 2530 | 279 | 318 | 261 | 166 |
| 14 | 779 | 299 | 467 | 201 | 268 | 220 | 2660 | 1780 | 417 | 264 | 375 | 159 |
| 15 | 452 | 228 | 337 | 203 | 274 | 220 | 2380 | 1210 | 326 | 434 | 691 | 170 |
| 16 | 344 | 244 | 3960 | 200 | 278 | 211 | 2840 | 851 | 836 | 329 | 303 | 258 |
| 17 | 257 | 277 | 2430 | 198 | 298 | 217 | 4420 | 1540 | 658 | 289 | 320 | 268 |
| 18 | 223 | 471 | 936 | 190 | 296 | 896 | 2550 | 1920 | 288 | 285 | 292 | 194 |
| 19 | 202 | 297 | 479 | 189 | 301 | 4730 | 2130 | 898 | 238 | 286 | 231 | 299 |
| 20 | 193 | 224 | 352 | 201 | 311 | 13300 | 1810 | 752 | 219 | 241 | 194 | 513 |
| 21 | 192 | 200 | 313 | 193 | 314 | 11300 | 1610 | 618 | 348 | 219 | 183 | 333 |
| 22 | 190 | 196 | 283 | 205 | 282 | 4560 | 1530 | 447 | 286 | 209 | 178 | 259 |
| 23 | 192 | 177 | 270 | 217 | 277 | 2830 | 983 | 337 | 214 | 208 | 172 | 205 |
| 24 | 185 | 173 | 249 | 1320 | 276 | 2170 | 478 | 307 | 204 | 205 | 164 | 184 |
| 25 | 174 | 174 | 235 | 1150 | 266 | 1840 | 377 | 291 | 264 | 193 | 167 | 172 |
| 26 | 177 | 178 | 218 | 397 | 264 | 1920 | 621 | 290 | 268 | 195 | 368 | 162 |
| 27 | 167 | 183 | 229 | 277 | 259 | 1840 | 538 | 306 | 468 | 204 | 234 | 153 |
| 28 | 167 | 398 | 228 | 247 | 250 | 950 | 384 | 363 | 344 | 197 | 186 | 150 |
| 29 | 173 | 551 | 218 | 235 | --- | 547 | 343 | 484 | 466 | 194 | 176 | 151 |
| 30 | 172 | 317 | 215 | 234 | --- | 5160 | 333 | 363 | 394 | 300 | 171 | 159 |
| 31 | 169 | --- | 206 | 8240 | --- | 4040 | --- | 291 | --- | 310 | 163 | --- |
| TOTAL | 11027 | 7769 | 14951 | 17015 | 20914 | 60060 | 69397 | 38562 | 10070 | 14448 | 11116 | 6698 |
| MEAN | 355.7 | 259.0 | 482.3 | 548.9 | 746.9 | 1937 | 2313 | 1244 | 335.7 | 466.1 | 358.6 | 223.3 |
| MAX | 1920 | 652 | 3960 | 8240 | 5100 | 13300 | 11700 | 5040 | 836 | 1610 | 3070 | 552 |
| MIN | 167 | 162 | 194 | 189 | 250 | 211 | 333 | 290 | 204 | 193 | 163 | 150 |
| AC-FT | 21870 | 15410 | 29660 | 33750 | 41480 | 119100 | 137600 | 76490 | 19970 | 28660 | 22050 | 13290 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 500.4 | 457.0 | 489.5 | 456.1 | 685.5 | 860.2 | 863.1 | 1599 | 1075 | 393.4 | 249.4 | 326.0 |
| MAX | 5779 | 4472 | 8319 | 4504 | 4740 | 4521 | 7245 | 14030 | 11990 | 3475 | 1478 | 3094 |
| (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 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1925 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 350661 | | 282027 | | | |
| ANNUAL MEAN | 960.7 | | 772.7 | | 665.3 | |
| HIGHEST ANNUAL MEAN | | | | | 2629 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 79.3 | 1956 |
| HIGHEST DAILY MEAN | 10500 | Feb 16 | 13300 | Mar 20 | 48900 | May 3 1990 |
| LOWEST DAILY MEAN | 147 | Jul 30 | 150 | Sep 28 | 4.5 | Sep 7 1925 |
| ANNUAL SEVEN-DAY MINIMUM | 154 | Aug 5 | 162 | Sep 24 | 7.3 | Jun 17 1925 |
| MAXIMUM PEAK FLOW | | | 14200 | Mar 20 | 64400 | May 3 1990 |
| MAXIMUM PEAK STAGE | | | 26.57 | Mar 20 | 33.88 | May 3 1990 |
| ANNUAL RUNOFF (AC-FT) | 695500 | | 559400 | | 482000 | |
| 10 PERCENT EXCEEDS | 2770 | | 1870 | | 1580 | |
| 50 PERCENT EXCEEDS | 337 | | 273 | | 185 | |
| 90 PERCENT EXCEEDS | 171 | | 177 | | 49 | |

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



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

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 405.42 ft above NGVD of 1929.

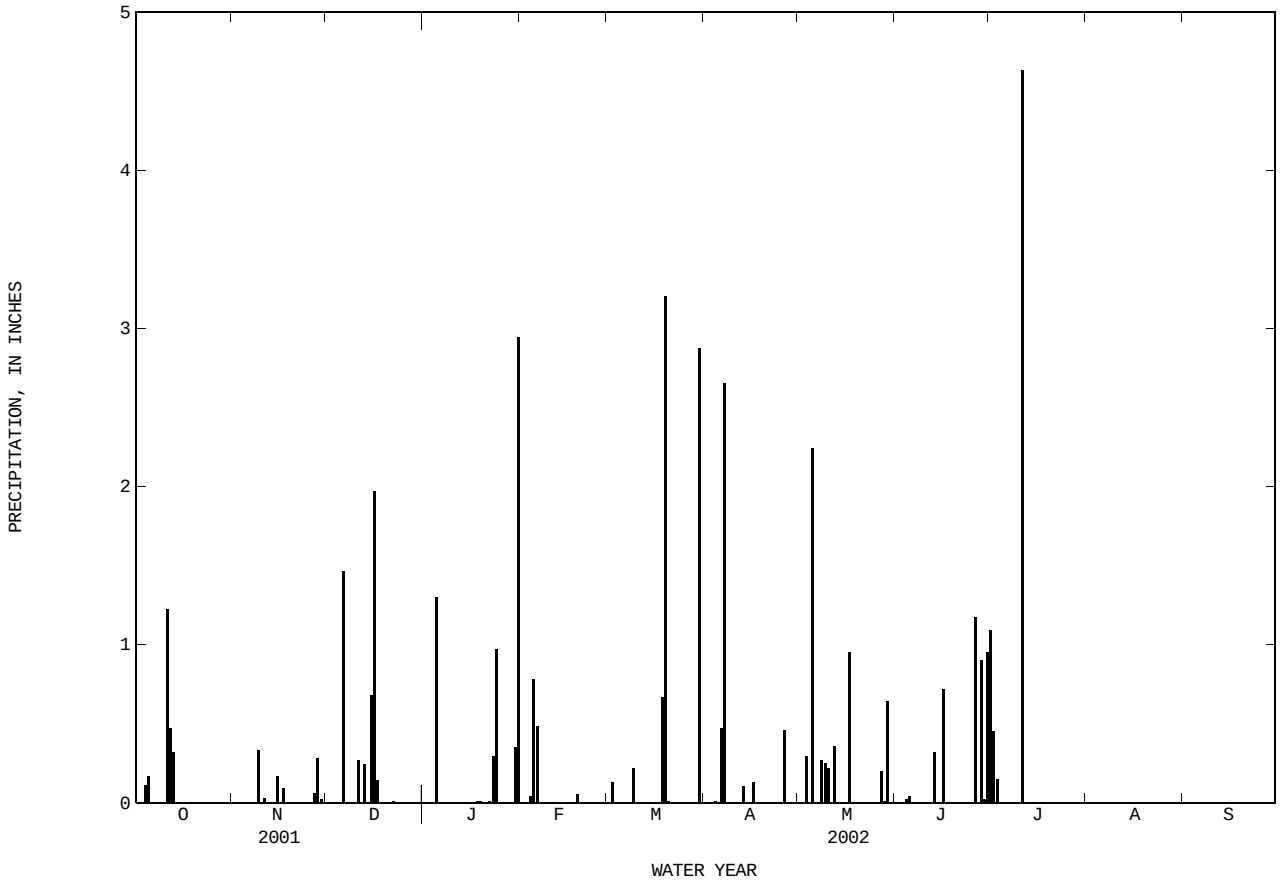
REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 4.63 inches, July 11.

PRECIPITATION FROM DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.15 | 0.00 | 0.00 |
| 4 | 0.11 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 |
| 5 | 0.17 | 0.00 | 0.00 | 1.30 | 0.78 | 0.00 | 0.00 | 2.24 | 0.04 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 1.46 | 0.00 | 0.48 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1.22 | 0.03 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.63 | 0.00 | 0.00 |
| 12 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 0.32 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 0.00 | 0.17 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.72 | 0.00 | 0.00 | 0.00 |
| 17 | 0.00 | 0.09 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 3.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 1.17 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.90 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.02 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 0.64 | 0.02 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.35 | --- | 2.87 | 0.00 | 0.00 | 0.95 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | 2.94 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 2.29 | 0.98 | 4.77 | 5.88 | 1.35 | 7.10 | 3.82 | 5.43 | 4.14 | 6.32 | 0.00 | 0.00 |

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



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 current year.
pH: Oct. 1976 to Sept. 1992, Aug. 1993 to current year.
WATER TEMPERATURE: Oct. 1966 to Sept. 1992, Aug. 1993 to current year.
DISSOLVED OXYGEN: Oct. 1976 to Sept. 1992, Aug. 1993 to current year.

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

REMARKS.--Records good. Interruption in the record was 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, 1,320 microsiemens/cm, Dec. 12, 1978; minimum, 108 microsiemens/cm, May 1, 1986.
pH: Maximum, 8.6 units, on several days during period of record; minimum, 6.6 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, 982 microsiemens/cm, Oct. 7; minimum, 161 microsiemens/cm, May 5.
pH: Maximum, 8.5 units, Feb. 26, 27, Sept. 18; minimum, 7.3 units, Oct. 11, 12, Aug. 10.
WATER TEMPERATURE: Maximum, 32.9°C, July 25; minimum, 7.9°C, Feb. 6.
DISSOLVED OXYGEN: Maximum, 15.9 mg/L, Feb. 27; minimum, 2.2 mg/L, June 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 07... | 1100 | 186 | 747 | 7.8 | 21.5 | 7.3 | 84 | 2.6 | 170 | 57 | 54.1 | 8.29 | 75.5 |
| MAR | | | | | | | | | | | | | |
| 26... | 0930 | 1990 | 457 | 7.6 | 14.0 | 9.0 | 89 | 2.2 | 170 | 33 | 57.8 | 5.98 | 26.1 |
| APR | | | | | | | | | | | | | |
| 30... | 0955 | 350 | 720 | 7.8 | 24.5 | 6.9 | 86 | 2.2 | 230 | 61 | 76.9 | 8.98 | 60.5 |
| JUN | | | | | | | | | | | | | |
| 26... | 0945 | 209 | 713 | 7.6 | 28.0 | 5.8 | 77 | 2.4 | 180 | 48 | 58.2 | 8.03 | 64.2 |
| JUL | | | | | | | | | | | | | |
| 18... | 1050 | 298 | 708 | 7.6 | 27.5 | 6.5 | 85 | 2.5 | 190 | 54 | 60.3 | 8.82 | 67.9 |
| SEP | | | | | | | | | | | | | |
| 05... | 1015 | 194 | 726 | 7.3 | 30.0 | 5.7 | 76 | 4.2 | 160 | 29 | 53.5 | 7.40 | 74.6 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 07... | 3 | 47 | 10.7 | <1 | 137 | 114 | 66.9 | 78.0 | .7 | 8.8 | 429 | 13.2 | .033 |
| MAR | | | | | | | | | | | | | |
| 26... | .9 | 25 | 4.37 | 1 | 164 | 136 | 44.9 | 25.1 | .4 | 6.4 | 262 | 2.07 | .023 |
| APR | | | | | | | | | | | | | |
| 30... | 2 | 36 | 6.90 | 1 | 202 | 168 | 78.6 | 53.9 | .3 | 8.7 | 442 | 9.98 | .020 |
| JUN | | | | | | | | | | | | | |
| 26... | 2 | 42 | 8.68 | <1 | 159 | 131 | 64.2 | 58.1 | .6 | 7.9 | 402 | 11.7 | .043 |
| JUL | | | | | | | | | | | | | |
| 18... | 2 | 43 | 8.79 | <1 | 162 | 134 | 60.9 | 66.4 | .7 | 8.7 | 403 | 8.83 | .024 |
| SEP | | | | | | | | | | | | | |
| 05... | 3 | 48 | 10.3 | <1 | 165 | 136 | 58.6 | 73.6 | .7 | 9.9 | 418 | 10.2 | .045 |

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) |
|---|---|---|---|---|---|---|---|
| NOV | | | | | | | |
| 07... | 13.3 | E.04 | -- | 1.0 | 1.36 | <.02 | -- |
| MAR | | | | | | | |
| 26... | 2.10 | .09 | .44 | .53 | .11 | .11 | .340 |
| APR | | | | | | | |
| 30... | 10.0 | <.04 | -- | .80 | .80 | .72 | 2.21 |
| JUN | | | | | | | |
| 26... | 11.7 | .04 | .74 | .78 | .59 | .58 | 1.79 |
| JUL | | | | | | | |
| 18... | 8.86 | <.04 | -- | .79 | .52 | .54 | 1.64 |
| SEP | | | | | | | |
| 05... | 10.2 | E.03 | -- | .96 | 1.21 | 1.14 | 3.48 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 940 | 840 | 884 | 800 | 724 | 771 | 731 | 614 | 677 | 816 | 732 | 769 |
| 2 | 915 | 849 | 885 | 826 | 780 | 800 | 812 | 676 | 751 | 797 | 723 | 758 |
| 3 | 886 | 817 | 847 | 851 | 793 | 820 | 859 | 740 | 801 | 797 | 724 | 753 |
| 4 | 911 | 823 | 869 | 827 | 792 | 812 | 807 | 745 | 774 | 762 | 694 | 727 |
| 5 | 935 | 886 | 909 | 862 | 805 | 831 | 762 | 715 | 741 | 840 | 736 | 789 |
| 6 | 968 | 927 | 944 | 847 | 748 | 799 | 801 | 670 | 769 | 853 | 770 | 806 |
| 7 | 982 | 931 | 950 | 762 | 707 | 735 | 766 | 557 | 674 | 847 | 719 | 791 |
| 8 | 966 | 920 | 940 | 794 | 713 | 755 | 727 | 662 | 696 | 787 | 707 | 739 |
| 9 | 942 | 887 | 915 | 845 | 621 | 751 | 794 | 680 | 738 | 765 | 701 | 738 |
| 10 | 887 | 852 | 870 | 820 | 750 | 791 | 849 | 724 | 786 | 851 | 764 | 807 |
| 11 | 865 | 361 | 569 | 829 | 655 | 762 | 817 | 718 | 781 | 828 | 776 | 801 |
| 12 | 459 | 346 | 410 | 780 | 655 | 723 | 742 | 677 | 715 | 851 | 791 | 820 |
| 13 | 493 | 313 | 367 | 708 | 473 | 551 | 762 | 547 | 672 | 877 | 806 | 840 |
| 14 | 486 | 331 | 427 | 547 | 476 | 503 | 698 | 589 | 661 | 908 | 816 | 860 |
| 15 | --- | 482 | e496 | 687 | 547 | 637 | 670 | 600 | 631 | 855 | 780 | 815 |
| 16 | 594 | --- | e570 | 729 | 640 | 694 | 600 | 212 | 289 | 811 | 749 | 777 |
| 17 | 672 | 581 | 625 | 721 | 685 | 698 | 315 | 257 | 285 | 880 | 776 | 836 |
| 18 | 769 | 605 | 702 | 802 | 634 | 723 | 407 | 281 | 349 | 860 | 822 | 841 |
| 19 | 823 | 697 | 760 | 634 | 549 | 570 | 520 | 396 | 466 | 881 | 819 | 843 |
| 20 | 853 | 773 | 813 | 696 | 585 | 656 | 607 | 509 | 576 | 892 | 842 | 863 |
| 21 | 856 | 792 | 829 | 730 | 630 | 680 | 697 | 605 | 661 | 895 | 821 | 859 |
| 22 | 869 | 766 | 821 | 857 | 730 | 802 | 745 | 687 | 715 | 865 | 811 | 843 |
| 23 | 824 | 758 | 788 | 832 | 778 | 800 | 762 | 695 | 731 | 822 | 769 | 801 |
| 24 | 769 | 725 | 751 | 811 | 759 | 783 | 785 | 695 | 742 | 791 | 477 | 635 |
| 25 | 829 | 752 | 789 | 811 | 754 | 782 | 778 | 694 | 731 | 560 | 516 | 539 |
| 26 | 858 | 793 | 825 | 772 | 729 | 745 | 775 | 679 | 728 | 638 | 521 | 585 |
| 27 | 869 | 823 | 846 | 768 | 720 | 741 | 742 | 680 | 709 | 727 | 638 | 692 |
| 28 | 869 | 810 | 828 | 726 | 600 | 678 | 735 | 661 | 700 | 809 | 700 | 770 |
| 29 | 894 | 811 | 851 | 715 | 616 | 661 | 773 | 695 | 731 | 803 | 755 | 780 |
| 30 | 852 | 735 | 791 | 629 | 589 | 614 | 815 | 708 | 762 | 786 | 750 | 768 |
| 31 | 755 | 712 | 734 | --- | --- | --- | 836 | 739 | 783 | 770 | 178 | 264 |
| MONTH | --- | --- | 761 | 862 | 473 | 722 | 859 | 212 | 672 | 908 | 178 | 758 |

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

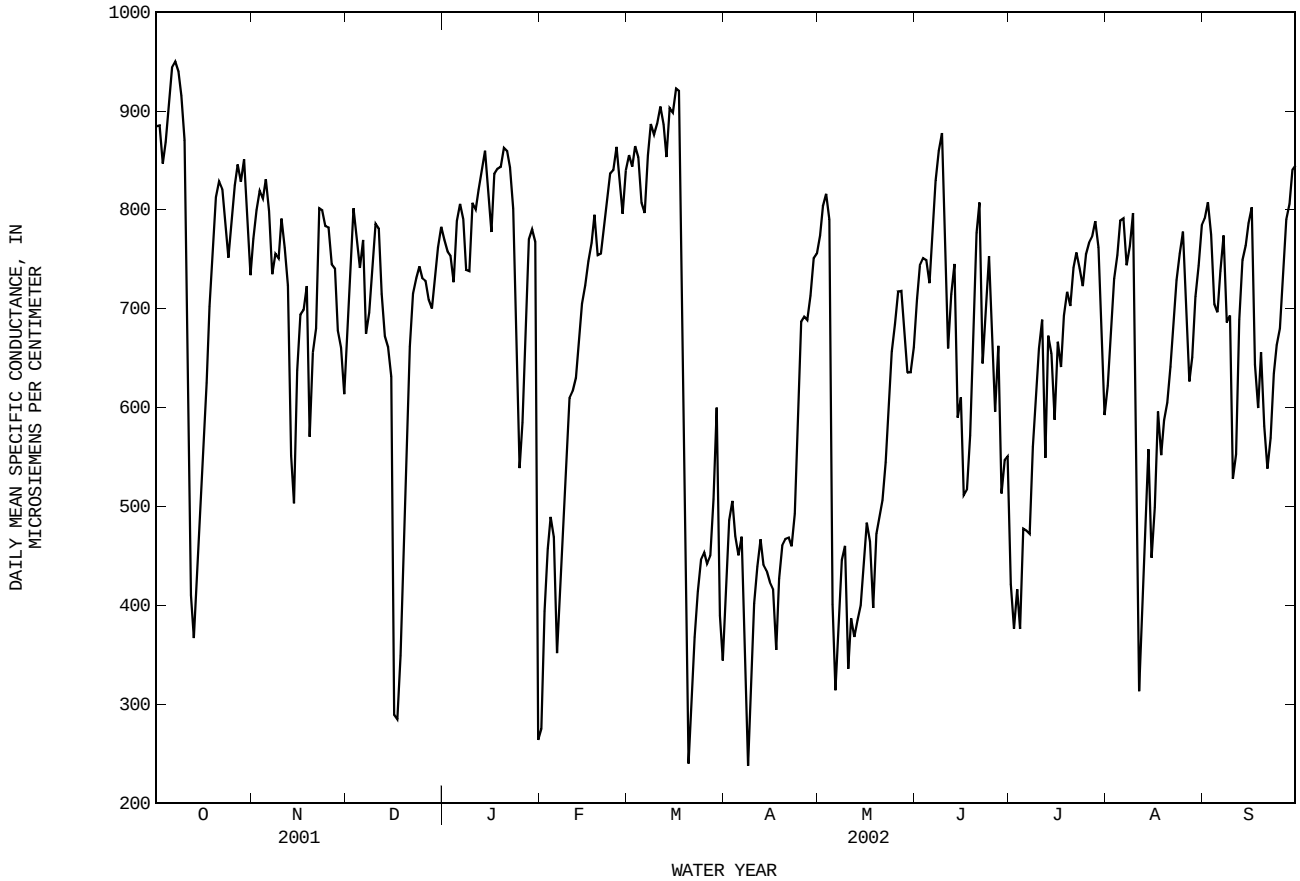
SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 348 | 198 | 275 | 881 | 833 | 855 | 441 | 380 | 421 | 795 | 746 | 774 |
| 2 | 420 | 348 | 394 | 883 | 813 | 844 | 511 | 441 | 486 | 828 | 781 | 804 |
| 3 | 491 | 408 | 457 | 918 | 819 | 864 | 551 | 427 | 506 | 836 | 787 | 816 |
| 4 | 518 | 456 | 489 | 895 | 799 | 853 | 535 | 425 | 470 | 846 | 724 | 790 |
| 5 | 508 | 418 | 469 | 838 | 767 | 807 | 459 | 438 | 451 | 724 | 161 | 401 |
| 6 | 418 | 331 | 351 | 824 | 766 | 797 | 501 | 446 | 469 | 355 | 286 | 314 |
| 7 | 449 | 364 | 420 | 900 | 805 | 855 | 482 | 216 | 372 | 405 | 355 | 385 |
| 8 | 515 | 442 | 490 | 912 | 860 | 887 | 273 | 213 | 238 | 478 | 392 | 446 |
| 9 | 587 | 498 | 550 | 894 | 859 | 876 | 369 | 273 | 316 | 495 | 406 | 460 |
| 10 | 652 | 564 | 610 | 915 | 857 | 887 | 429 | 369 | 402 | 406 | 277 | 335 |
| 11 | 645 | 595 | 617 | 946 | 873 | 904 | 457 | 429 | 439 | 404 | 353 | 387 |
| 12 | 655 | 617 | 630 | 918 | 849 | 886 | 519 | 431 | 467 | 383 | 348 | 368 |
| 13 | 683 | 643 | 667 | 878 | 825 | 853 | 457 | 430 | 441 | 400 | 362 | 385 |
| 14 | 727 | 683 | 705 | 946 | 855 | 903 | 447 | 414 | 435 | 419 | 379 | 400 |
| 15 | 740 | 709 | 723 | 913 | 884 | 898 | 434 | 415 | 424 | 462 | 416 | 443 |
| 16 | 767 | 719 | 748 | 956 | 890 | 922 | 438 | 325 | 416 | 507 | 448 | 483 |
| 17 | 783 | 744 | 767 | 942 | 899 | 920 | 400 | 246 | 355 | 508 | 410 | 464 |
| 18 | 829 | 754 | 795 | 931 | 533 | 772 | 447 | 393 | 427 | 425 | 361 | 397 |
| 19 | 780 | 716 | 754 | 751 | 195 | 467 | 473 | 447 | 461 | 494 | 425 | 472 |
| 20 | 788 | 719 | 756 | 268 | 218 | 240 | 474 | 455 | 467 | 510 | 458 | 489 |
| 21 | 821 | 754 | 781 | 322 | 261 | 296 | 484 | 448 | 468 | 528 | 481 | 506 |
| 22 | 844 | 766 | 806 | 391 | 322 | 368 | 468 | 447 | 459 | 585 | 505 | 545 |
| 23 | 868 | 807 | 837 | 439 | 391 | 414 | 537 | 451 | 492 | 629 | 573 | 607 |
| 24 | 866 | 806 | 840 | 454 | 438 | 446 | 655 | 537 | 601 | 682 | 623 | 656 |
| 25 | 898 | 817 | 864 | 462 | 439 | 453 | 705 | 653 | 686 | 701 | 652 | 684 |
| 26 | 877 | 774 | 831 | 452 | 425 | 442 | 720 | 642 | 692 | 746 | 682 | 717 |
| 27 | 838 | 765 | 796 | 463 | 427 | 450 | 711 | 668 | 689 | 758 | 662 | 718 |
| 28 | 887 | 796 | 840 | 555 | 449 | 507 | 755 | 672 | 713 | 694 | 657 | 675 |
| 29 | --- | --- | --- | 641 | 555 | 600 | 764 | 737 | 751 | 674 | 591 | 635 |
| 30 | --- | --- | --- | 639 | 290 | 389 | 774 | 738 | 756 | 659 | 604 | 636 |
| 31 | --- | --- | --- | 380 | 311 | 344 | --- | --- | --- | 682 | 624 | 661 |
| MONTH | 898 | 198 | 652 | 956 | 195 | 677 | 774 | 213 | 492 | 846 | 161 | 544 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 735 | 671 | 710 | 500 | 332 | 421 | 654 | 582 | 622 | 797 | 783 | 791 |
| 2 | 767 | 707 | 744 | 428 | 313 | 376 | 715 | 593 | 673 | 825 | 790 | 808 |
| 3 | 776 | 707 | 751 | 493 | 344 | 416 | 751 | 701 | 730 | 804 | 738 | 775 |
| 4 | 779 | 697 | 749 | 401 | 342 | 376 | 771 | 736 | 754 | 738 | 695 | 705 |
| 5 | 754 | 696 | 726 | 552 | 398 | 477 | 825 | 758 | 789 | 720 | 683 | 696 |
| 6 | --- | --- | e786 | 555 | 399 | 476 | 813 | 758 | 791 | 756 | 720 | 738 |
| 7 | --- | --- | e829 | 533 | 399 | 472 | 758 | 733 | 744 | --- | 756 | e774 |
| 8 | --- | --- | e860 | 593 | 529 | 560 | 786 | 738 | 763 | 813 | 526 | 686 |
| 9 | --- | --- | e878 | 646 | 576 | 610 | 812 | 776 | 796 | 782 | 549 | 693 |
| 10 | --- | --- | e781 | 690 | 621 | 660 | 811 | 317 | 613 | 558 | 498 | 528 |
| 11 | 727 | 633 | 659 | 748 | 327 | 689 | 459 | 272 | 313 | 592 | 500 | 553 |
| 12 | --- | --- | e715 | 693 | 327 | 549 | 459 | 330 | 406 | 747 | 592 | 689 |
| 13 | --- | --- | e745 | 735 | 603 | 673 | 517 | 454 | 497 | 760 | 739 | 749 |
| 14 | --- | --- | e590 | 682 | 503 | 654 | 610 | 405 | 558 | 773 | 753 | 764 |
| 15 | --- | --- | e610 | 709 | 348 | 587 | 554 | 363 | 448 | 808 | 761 | 787 |
| 16 | --- | --- | e511 | 708 | 568 | 666 | 517 | 452 | 499 | 848 | 745 | 803 |
| 17 | --- | --- | e517 | 674 | 594 | 641 | 650 | 514 | 596 | 745 | 603 | 644 |
| 18 | 610 | 520 | 572 | 736 | 666 | 693 | 607 | 525 | 552 | 618 | 591 | 599 |
| 19 | 728 | 603 | 683 | 759 | 679 | 717 | 614 | 551 | 587 | 705 | 601 | 656 |
| 20 | 802 | 716 | 777 | 728 | 683 | 703 | 641 | 551 | 605 | 733 | 498 | 581 |
| 21 | 851 | 759 | 807 | 768 | 683 | 741 | 675 | 606 | 642 | 571 | 503 | 538 |
| 22 | 845 | 605 | 645 | 780 | 724 | 757 | 722 | 658 | 689 | 586 | 548 | 569 |
| 23 | 740 | 630 | 700 | 760 | 717 | 741 | 742 | 718 | 729 | 665 | 568 | 634 |
| 24 | 794 | 697 | 753 | 745 | 705 | 723 | 772 | 736 | 756 | 721 | 616 | 663 |
| 25 | 749 | 454 | 690 | 787 | 732 | 755 | 793 | 758 | 778 | 699 | 659 | 680 |
| 26 | 696 | 454 | 596 | 789 | 755 | 767 | 794 | 527 | 697 | 774 | 698 | 739 |
| 27 | 786 | 523 | 662 | 799 | 757 | 772 | 701 | 478 | 626 | 806 | 771 | 791 |
| 28 | 568 | 372 | 513 | 815 | 768 | 788 | 677 | 631 | 651 | 817 | 786 | 806 |
| 29 | 614 | 366 | 547 | 774 | 740 | 762 | 729 | 677 | 712 | 858 | 810 | 840 |
| 30 | 586 | 441 | 551 | 759 | 470 | 669 | 772 | 724 | 743 | 864 | 832 | 844 |
| 31 | --- | --- | --- | 671 | 470 | 592 | 791 | 772 | 784 | --- | --- | --- |
| MONTH | --- | --- | 689 | 815 | 313 | 628 | 825 | 272 | 650 | --- | 498 | 704 |

e Estimated

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




PH, WH, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

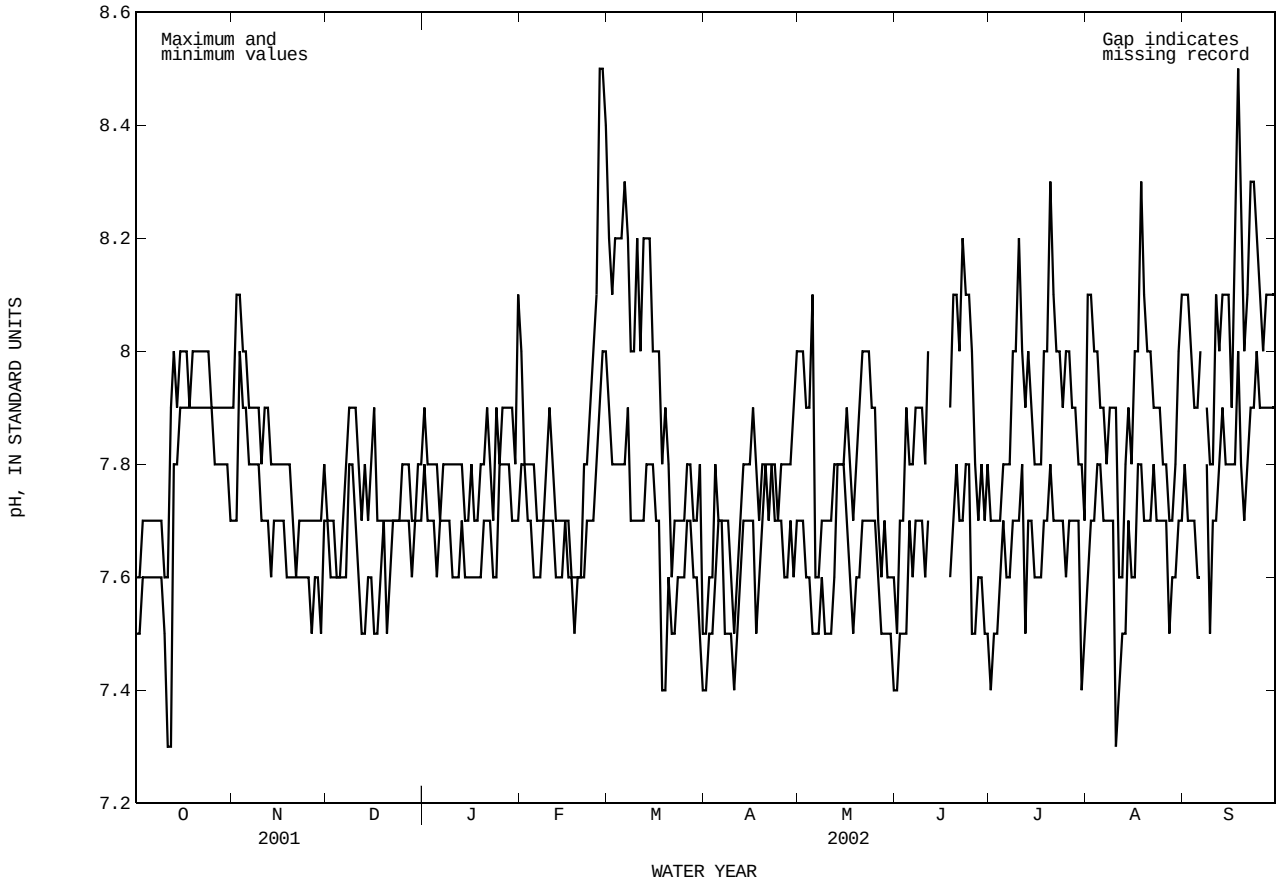
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 7.6 | 7.5 | 7.9 | 7.7 | 7.7 | 7.7 | 7.9 | 7.8 | 8.0 | 7.8 | 8.2 | 7.9 |
| 2 | 7.6 |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

TRINITY RIVER BASIN

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

PH, WH, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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



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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 25.3 | 23.2 | 24.2 | 22.0 | 20.3 | 21.1 | 14.7 | 12.5 | 13.7 | 12.0 | 11.0 | 11.5 |
| 2 | 25.2 | 23.3 | 24.2 | 22.9 | 21.6 | 22.2 | 16.8 | 14.3 | 15.7 | 11.4 | 10.5 | 10.9 |
| 3 | 25.0 | 23.5 | 24.3 | 23.7 | 22.1 | 22.9 | 18.0 | 16.6 | 17.4 | 10.9 | 9.3 | 10.2 |
| 4 | 26.0 | 24.0 | 24.9 | 23.7 | 22.6 | 23.1 | 19.5 | 17.9 | 18.7 | 10.9 | 9.7 | 10.3 |
| 5 | 25.3 | 23.2 | 24.6 | 23.4 | 22.0 | 22.7 | 20.3 | 19.2 | 19.8 | 12.2 | 10.8 | 11.6 |
| 6 | 23.2 | 21.5 | 22.4 | 22.6 | 21.4 | 22.0 | 21.2 | 20.3 | 20.7 | 12.9 | 11.6 | 12.1 |
| 7 | 22.4 | 20.7 | 21.5 | 21.9 | 20.7 | 21.4 | 20.6 | 19.4 | 20.0 | 12.5 | 11.2 | 11.9 |
| 8 | 22.3 | 21.0 | 21.6 | 22.2 | 20.5 | 21.3 | 19.4 | 16.5 | 18.0 | 13.0 | 11.0 | 11.9 |
| 9 | 23.5 | 22.1 | 22.7 | 21.5 | 18.6 | 20.0 | 16.5 | 15.0 | 15.9 | 14.5 | 12.3 | 13.4 |
| 10 | 25.2 | 23.4 | 24.2 | 19.9 | 19.3 | 19.6 | 15.0 | 13.8 | 14.5 | 15.1 | 14.1 | 14.6 |
| 11 | 24.7 | 21.0 | 22.5 | 19.6 | 18.9 | 19.4 | 14.5 | 13.9 | 14.2 | 15.0 | 13.9 | 14.3 |
| 12 | 22.2 | 20.9 | 21.6 | 20.8 | 18.8 | 20.1 | 16.6 | 13.9 | 15.4 | 14.2 | 13.0 | 13.6 |
| 13 | 21.6 | 20.0 | 20.8 | 20.4 | 19.0 | 19.5 | 16.8 | 13.1 | 15.0 | 14.1 | 12.6 | 13.3 |
| 14 | 21.4 | 19.6 | 20.4 | 19.6 | 19.0 | 19.3 | 14.9 | 13.1 | 13.9 | 14.4 | 13.0 | 13.6 |
| 15 | --- | 19.1 | --- | 20.2 | 19.6 | 19.9 | 14.3 | 12.7 | 13.2 | 13.9 | 12.5 | 13.3 |
| 16 | 20.9 | --- | --- | 20.6 | 19.7 | 20.2 | 14.5 | 12.7 | 13.3 | 14.8 | 13.1 | 13.9 |
| 17 | 20.6 | 18.9 | 19.8 | 21.0 | 19.8 | 20.5 | 13.7 | 13.0 | 13.2 | 14.4 | 13.4 | 13.9 |
| 18 | 21.0 | 19.0 | 20.0 | 21.4 | 20.6 | 21.1 | 13.9 | 12.7 | 13.3 | 13.4 | 13.0 | 13.1 |
| 19 | 22.3 | 20.2 | 21.1 | 20.6 | 18.1 | 19.3 | 14.1 | 12.8 | 13.5 | 13.9 | 12.6 | 13.2 |
| 20 | 23.6 | 21.7 | 22.5 | 18.3 | 16.9 | 17.7 | 13.9 | 13.0 | 13.4 | 13.9 | 12.5 | 13.1 |
| 21 | 23.8 | 22.4 | 23.0 | 17.0 | 15.9 | 16.5 | 14.6 | 13.6 | 14.1 | 14.1 | 12.3 | 13.2 |
| 22 | 24.2 | 22.5 | 23.4 | 18.0 | 16.3 | 17.1 | 16.3 | 14.6 | 15.4 | 15.0 | 13.2 | 14.0 |
| 23 | 25.2 | 23.6 | 24.2 | 19.5 | 17.8 | 18.7 | 15.4 | 14.0 | 14.9 | 17.0 | 14.9 | 16.0 |
| 24 | 24.8 | 23.4 | 24.2 | 19.0 | 18.0 | 18.5 | 14.1 | 13.2 | 13.7 | 16.8 | 11.0 | 13.7 |
| 25 | 23.4 | 21.6 | 22.4 | 18.3 | 17.1 | 17.8 | 14.0 | 13.0 | 13.4 | 11.7 | 10.6 | 11.1 |
| 26 | 21.9 | 20.5 | 21.2 | 19.0 | 17.4 | 18.1 | 13.5 | 12.5 | 12.9 | 12.2 | 9.7 | 11.0 |
| 27 | 21.4 | 20.1 | 20.6 | 18.3 | 15.2 | 16.7 | 13.5 | 12.1 | 12.8 | 13.5 | 11.8 | 12.7 |
| 28 | 21.1 | 19.7 | 20.3 | 15.2 | 11.8 | 13.2 | 14.3 | 12.9 | 13.6 | 15.8 | 13.3 | 14.6 |
| 29 | 20.4 | 19.3 | 19.9 | 13.0 | 11.1 | 12.2 | 14.0 | 12.9 | 13.5 | 18.0 | 15.4 | 16.9 |
| 30 | 20.5 | 18.7 | 19.7 | 12.5 | 10.9 | 11.5 | 12.9 | 11.9 | 12.4 | 18.1 | 16.6 | 17.7 |
| 31 | 20.5 | 19.3 | 20.0 | --- | --- | --- | 12.1 | 11.2 | 11.6 | 16.6 | 8.9 | 10.1 |
| MONTH | --- | --- | --- | 23.7 | 10.9 | 19.1 | 21.2 | 11.2 | 14.9 | 18.1 | 8.9 | 13.1 |

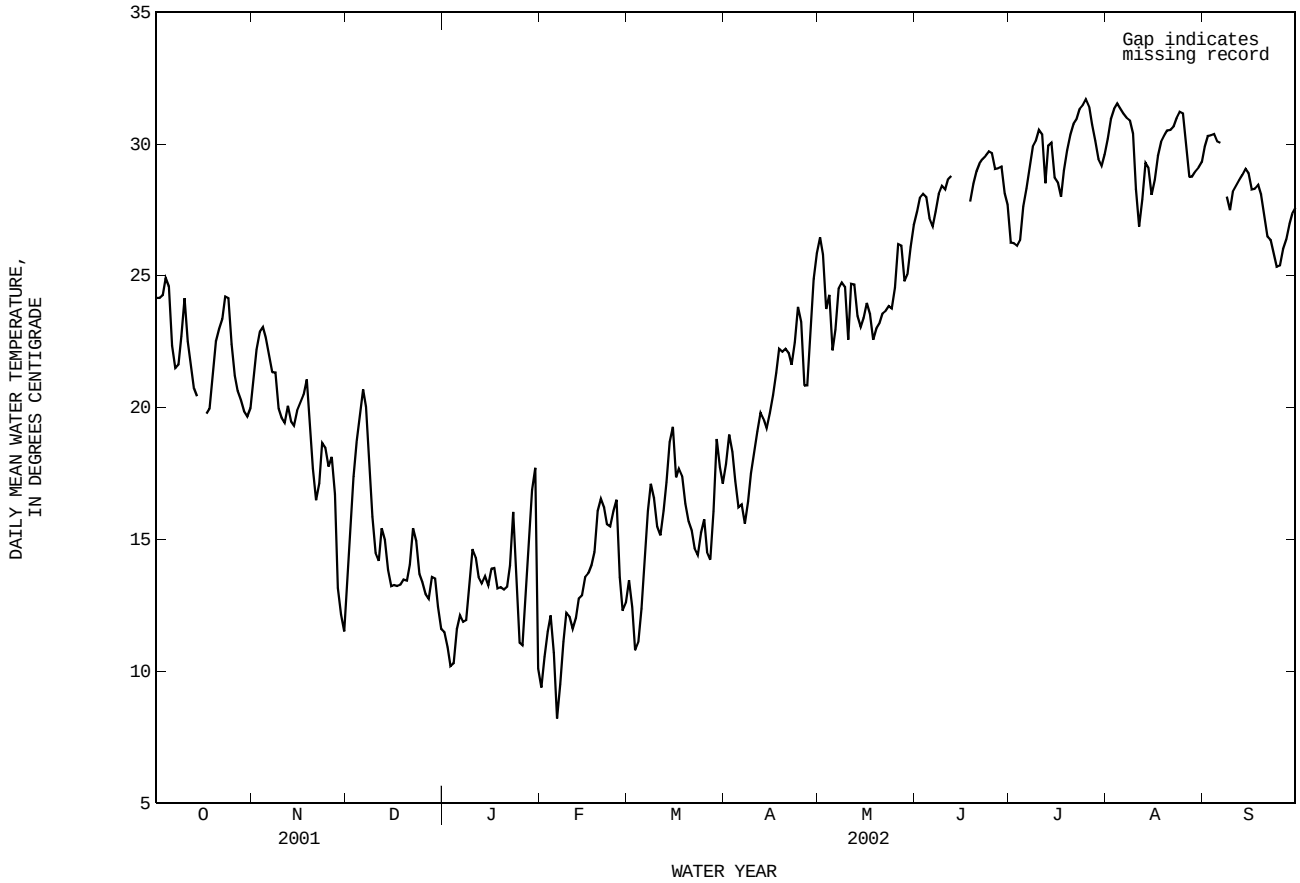
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 10.1 | 8.9 | 9.4 | 13.9 | 13.1 | 13.5 | 18.7 | 17.1 | 17.9 | 27.9 | 25.2 | 26.5 |
| 2 | 11.0 | 10.1 | 10.6 | 13.9 | 10.7 | 12.4 | 19.8 | 18.4 | 19.0 | 27.1 | 24.6 | 25.8 |
| 3 | 12.1 | 10.7 | 11.5 | 11.8 | 10.0 | 10.8 | 18.9 | 17.5 | 18.3 | 24.6 | 22.6 | 23.7 |
| 4 | 12.6 | 11.6 | 12.1 | 12.4 | 10.0 | 11.1 | 17.6 | 15.8 | 17.2 | 25.6 | 23.2 | 24.3 |
| 5 | 12.4 | 8.8 | 10.7 | 13.9 | 11.3 | 12.4 | 17.0 | 15.7 | 16.2 | 24.8 | 20.4 | 22.2 |
| 6 | 8.8 | 7.9 | 8.2 | 15.6 | 12.9 | 14.2 | 16.5 | 15.8 | 16.3 | 24.0 | 21.8 | 23.0 |
| 7 | 10.4 | 8.5 | 9.5 | 17.2 | 15.0 | 16.1 | 16.0 | 15.3 | 15.6 | 25.1 | 24.0 | 24.5 |
| 8 | 12.0 | 10.1 | 11.1 | 17.6 | 16.6 | 17.1 | 17.2 | 15.8 | 16.4 | 25.3 | 24.4 | 24.7 |
| 9 | 13.2 | 11.2 | 12.2 | 17.5 | 15.4 | 16.6 | 18.1 | 17.2 | 17.5 | 24.9 | 24.2 | 24.6 |
| 10 | 12.7 | 11.4 | 12.1 | 16.6 | 14.5 | 15.5 | 19.0 | 17.8 | 18.3 | 24.2 | 21.2 | 22.6 |
| 11 | 12.3 | 10.6 | 11.6 | 15.5 | 14.9 | 15.2 | 19.7 | 18.5 | 19.1 | 25.5 | 23.7 | 24.7 |
| 12 | 12.9 | 11.0 | 12.0 | 17.7 | 15.0 | 16.1 | 20.1 | 19.4 | 19.8 | 24.9 | 24.1 | 24.7 |
| 13 | 13.5 | 12.0 | 12.8 | 18.6 | 16.0 | 17.2 | 20.0 | 19.1 | 19.6 | 24.1 | 22.8 | 23.5 |
| 14 | 13.4 | 12.1 | 12.9 | 20.2 | 17.5 | 18.7 | 19.5 | 19.0 | 19.2 | 23.7 | 22.5 | 23.1 |
| 15 | 14.2 | 13.0 | 13.6 | 19.9 | 18.0 | 19.3 | 20.4 | 19.1 | 19.8 | 24.4 | 22.7 | 23.4 |
| 16 | 14.5 | 12.8 | 13.7 | 18.0 | 16.9 | 17.4 | 20.9 | 20.1 | 20.5 | 24.9 | 23.2 | 24.0 |
| 17 | 14.7 | 13.2 | 14.0 | 18.7 | 17.0 | 17.7 | 22.0 | 20.4 | 21.3 | 24.6 | 22.5 | 23.5 |
| 18 | 14.9 | 14.2 | 14.5 | 18.3 | 15.6 | 17.4 | 22.5 | 21.9 | 22.2 | 23.6 | 21.6 | 22.6 |
| 19 | 17.1 | 14.9 | 16.1 | 17.8 | 15.8 | 16.4 | 22.3 | 21.8 | 22.1 | 24.1 | 22.2 | 23.0 |
| 20 | 17.5 | 15.7 | 16.5 | 16.1 | 15.4 | 15.7 | 22.8 | 21.8 | 22.2 | 24.4 | 22.2 | 23.2 |
| 21 | 16.7 | 15.6 | 16.2 | 15.6 | 15.0 | 15.3 | 22.3 | 21.6 | 22.1 | 24.9 | 22.5 | 23.6 |
| 22 | 16.6 | 14.7 | 15.6 | 15.5 | 14.2 | 14.7 | 22.4 | 21.0 | 21.6 | 24.6 | 22.7 | 23.7 |
| 23 | 16.5 | 14.5 | 15.5 | 14.7 | 14.0 | 14.4 | 23.9 | 21.4 | 22.5 | 24.7 | 23.1 | 23.9 |
| 24 | 17.2 | 15.0 | 16.1 | 16.0 | 14.4 | 15.3 | 25.1 | 22.7 | 23.8 | 24.2 | 23.4 | 23.8 |
| 25 | 17.4 | 15.3 | 16.5 | 16.2 | 14.9 | 15.8 | 24.5 | 22.4 | 23.3 | 26.4 | 23.1 | 24.6 |
| 26 | 15.3 | 12.3 | 13.6 | 15.1 | 14.0 | 14.5 | 22.4 | 20.2 | 20.8 | 27.6 | 24.9 | 26.2 |
| 27 | 13.4 | 11.4 | 12.3 | 14.8 | 13.7 | 14.2 | 22.1 | 19.9 | 20.9 | 27.1 | 25.3 | 26.1 |
| 28 | 13.7 | 11.6 | 12.6 | 17.7 | 14.4 | 16.1 | 24.8 | 21.7 | 23.1 | 25.3 | 24.3 | 24.8 |
| 29 | --- | --- | --- | 20.2 | 17.5 | 18.8 | 26.5 | 23.5 | 24.9 | 26.4 | 23.9 | 25.1 |
| 30 | --- | --- | --- | 20.1 | 16.7 | 17.7 | 26.8 | 24.9 | 25.9 | 27.5 | 24.8 | 26.1 |
| 31 | --- | --- | --- | 17.4 | 16.8 | 17.1 | --- | --- | --- | 28.3 | 25.7 | 26.9 |
| MONTH | 17.5 | 7.9 | 13.0 | 20.2 | 10.0 | 15.6 | 26.8 | 15.3 | 20.2 | 28.3 | 20.4 | 24.3 |

TRINITY RIVER BASIN

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

WATER TEMPERATURE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 28.6 | 26.1 | 27.4 | 26.5 | 25.8 | 26.3 | 31.6 | 28.9 | 30.2 | 31.1 | 28.9 | 29.9 |
| 2 | 29.4 | 26.6 | 28.0 | 26.7 | 25.9 | 26.2 | 32.4 | 29.7 | 31.0 | 31.6 | 29.3 | 30.3 |
| 3 | 29.1 | 27.0 | 28.1 | 26.6 | 25.7 | 26.2 | 32.6 | 30.3 | 31.3 | 31.3 | 29.5 | 30.3 |
| 4 | 28.9 | 26.9 | 28.0 | 27.4 | 25.4 | 26.4 | 32.6 | 30.7 | 31.5 | 31.2 | 29.7 | 30.4 |
| 5 | 28.4 | 26.4 | 27.2 | 28.9 | 26.6 | 27.6 | 32.3 | 30.5 | 31.4 | 31.1 | 29.2 | 30.1 |
| 6 | 27.7 | 26.0 | 26.9 | 29.0 | 27.8 | 28.3 | 32.3 | 30.2 | 31.2 | 31.0 | 29.3 | 30.0 |
| 7 | 28.8 | 26.1 | 27.4 | 30.5 | 28.0 | 29.1 | 32.2 | 29.9 | 31.0 | --- | --- | --- |
| 8 | 28.9 | 27.3 | 28.1 | 31.2 | 28.8 | 29.9 | 31.7 | 30.1 | 30.9 | 29.2 | 27.2 | 28.0 |
| 9 | 29.8 | 27.4 | 28.4 | 31.7 | 28.7 | 30.1 | 31.5 | 29.3 | 30.4 | 28.1 | 27.2 | 27.5 |
| 10 | 29.1 | 27.6 | 28.3 | 31.8 | 29.2 | 30.5 | 30.7 | 25.7 | 28.3 | 29.0 | 27.2 | 28.2 |
| 11 | 29.7 | 27.9 | 28.7 | 32.1 | 25.7 | 30.4 | 27.6 | 26.1 | 26.9 | 29.7 | 27.4 | 28.4 |
| 12 | 30.3 | 27.9 | 28.8 | 30.9 | 25.7 | 28.5 | 29.4 | 26.7 | 27.9 | 29.1 | 28.1 | 28.6 |
| 13 | --- | --- | --- | 31.2 | 28.7 | 29.9 | 30.6 | 28.1 | 29.3 | 29.7 | 28.0 | 28.8 |
| 14 | --- | --- | --- | 31.4 | 28.9 | 30.1 | 29.9 | 28.3 | 29.1 | 30.1 | 28.2 | 29.1 |
| 15 | --- | --- | --- | 29.4 | 26.9 | 28.7 | 28.8 | 27.2 | 28.1 | 29.5 | 28.3 | 28.9 |
| 16 | --- | --- | --- | 29.1 | 28.1 | 28.6 | 30.0 | 27.5 | 28.6 | 28.9 | 27.7 | 28.3 |
| 17 | 28.4 | --- | --- | 28.7 | 27.3 | 28.0 | 30.7 | 28.5 | 29.6 | 29.2 | 27.3 | 28.3 |
| 18 | 29.3 | 26.5 | 27.8 | 30.0 | 27.9 | 29.0 | 31.2 | 29.0 | 30.1 | 29.3 | 27.7 | 28.5 |
| 19 | 29.8 | 27.3 | 28.5 | 31.2 | 28.4 | 29.8 | 31.4 | 29.3 | 30.3 | 28.7 | 27.5 | 28.1 |
| 20 | 30.4 | 27.8 | 29.0 | 31.9 | 29.0 | 30.3 | 31.7 | 29.5 | 30.5 | 28.1 | 26.6 | 27.3 |
| 21 | 30.2 | 28.5 | 29.2 | 32.0 | 29.7 | 30.8 | 31.6 | 29.7 | 30.5 | 27.5 | 25.4 | 26.5 |
| 22 | 30.8 | 28.4 | 29.4 | 32.2 | 30.0 | 30.9 | 31.8 | 29.8 | 30.7 | 27.3 | 25.5 | 26.4 |
| 23 | 30.8 | 28.2 | 29.6 | 32.7 | 30.4 | 31.3 | 32.3 | 30.1 | 31.0 | 26.8 | 24.9 | 25.8 |
| 24 | 30.8 | 28.6 | 29.7 | 32.6 | 30.7 | 31.5 | 32.4 | 30.3 | 31.2 | 26.3 | 24.4 | 25.3 |
| 25 | 30.9 | 28.1 | 29.7 | 32.9 | 30.9 | 31.7 | 32.3 | 30.4 | 31.2 | 26.6 | 24.4 | 25.4 |
| 26 | 30.2 | 28.5 | 29.1 | 32.6 | 30.6 | 31.4 | 30.9 | 28.5 | 29.9 | 27.4 | 25.0 | 26.0 |
| 27 | 30.6 | 28.0 | 29.1 | 31.7 | 29.9 | 30.8 | 30.1 | 27.3 | 28.8 | 27.9 | 25.2 | 26.4 |
| 28 | 30.2 | 28.3 | 29.2 | 31.2 | 29.3 | 30.1 | 29.9 | 28.1 | 28.8 | 28.3 | 26.0 | 27.0 |
| 29 | 29.2 | 26.6 | 28.1 | 30.1 | 29.1 | 29.4 | 30.0 | 28.2 | 29.0 | 28.7 | 26.4 | 27.4 |
| 30 | 28.1 | 26.5 | 27.7 | 30.2 | 28.0 | 29.2 | 30.2 | 28.2 | 29.1 | 28.8 | 26.8 | 27.6 |
| 31 | --- | --- | --- | 30.9 | 28.5 | 29.6 | 30.5 | 28.2 | 29.3 | --- | --- | --- |
| MONTH | --- | --- | --- | 32.9 | 25.4 | 29.4 | 32.6 | 25.7 | 29.9 | --- | --- | --- |



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

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

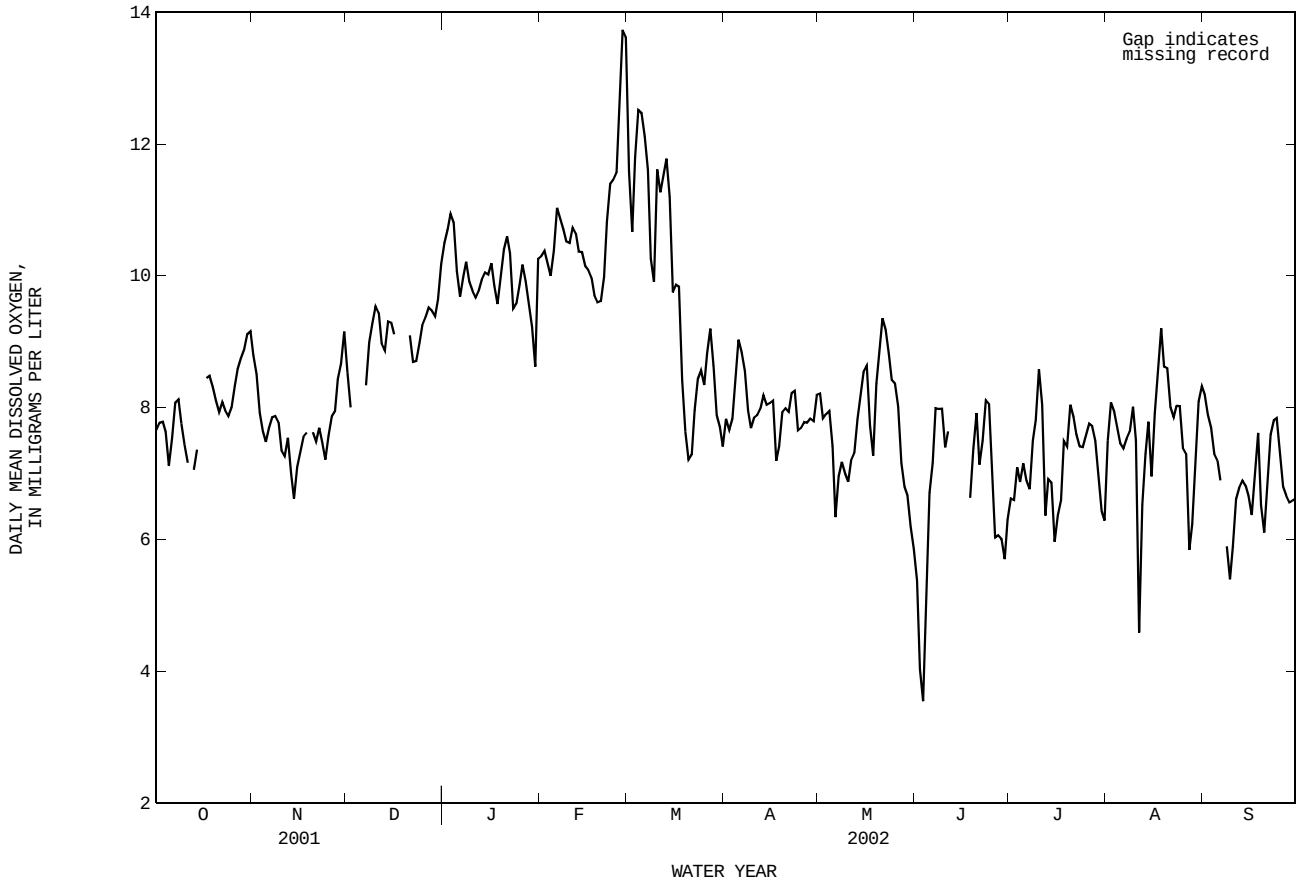
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 8.3 | 7.1 | 7.7 | 9.6 | 8.2 | 8.8 | 8.8 | 8.4 | 8.5 | 11.2 | 10.2 | 10.5 |
| 2 | 8.5 | 7.3 | 7.8 | 9.1 | 8.1 | 8.5 | 8.4 | 7.7 | 8.0 | 11.2 | 10.4 | 10.7 |
| 3 | 8.5 | 7.2 | 7.8 | 8.6 | 7.4 | 7.9 | --- | --- | --- | 11.7 | 10.4 | 10.9 |
| 4 | 8.2 | 7.1 | 7.6 | 8.3 | 7.1 | 7.6 | --- | --- | --- | 11.8 | 9.9 | 10.8 |
| 5 | 7.5 | 6.9 | 7.1 | 8.1 | 7.0 | 7.5 | --- | --- | --- | 11.0 | 9.4 | 10.1 |
| 6 | 8.3 | 7.0 | 7.5 | 8.4 | 7.2 | 7.7 | --- | --- | --- | 10.3 | 9.2 | 9.7 |
| 7 | 8.7 | 7.6 | 8.1 | 8.5 | 7.4 | 7.9 | 8.7 | 7.8 | 8.3 | 10.7 | 9.4 | 10 |
| 8 | 8.7 | 7.7 | 8.1 | 8.5 | 7.4 | 7.9 | 9.6 | 8.5 | 9.0 | 10.7 | 9.7 | 10.2 |
| 9 | 8.2 | 7.5 | 7.8 | 8.4 | 7.4 | 7.8 | 9.8 | 8.8 | 9.3 | 10.4 | 9.3 | 9.9 |
| 10 | 8.0 | 7.0 | 7.4 | 7.6 | 6.9 | 7.4 | 9.9 | 9.3 | 9.5 | 10.5 | 9.1 | 9.8 |
| 11 | 8.8 | 6.2 | 7.2 | 7.8 | 6.6 | 7.3 | 9.6 | 9.3 | 9.4 | 10.4 | 9.2 | 9.7 |
| 12 | --- | --- | --- | 7.7 | 7.3 | 7.5 | 9.3 | 8.6 | 9.0 | 10.5 | 9.2 | 9.8 |
| 13 | 7.8 | 6.6 | 7.1 | 7.4 | 6.5 | 7.0 | 9.5 | 8.4 | 8.9 | 10.7 | 9.4 | 9.9 |
| 14 | 7.6 | 6.8 | 7.4 | 6.8 | 6.5 | 6.6 | 9.5 | 9.1 | 9.3 | 10.8 | 9.5 | 10.1 |
| 15 | --- | --- | --- | 7.4 | 6.8 | 7.1 | 9.5 | 9.1 | 9.3 | 10.7 | 9.5 | 10.0 |
| 16 | --- | --- | --- | 7.5 | 7.2 | 7.3 | 9.3 | 8.8 | 9.1 | 11.1 | 9.6 | 10.2 |
| 17 | 9.0 | 8.1 | 8.4 | 8.0 | 7.1 | 7.6 | --- | --- | --- | 10.3 | 9.6 | 9.9 |
| 18 | 8.8 | 8.2 | 8.5 | 7.8 | 7.4 | 7.6 | --- | --- | --- | 9.9 | 9.3 | 9.6 |
| 19 | 8.8 | 7.9 | 8.3 | --- | --- | --- | --- | --- | --- | 11.0 | 9.2 | 10.0 |
| 20 | 8.7 | 7.6 | 8.1 | 7.9 | 7.4 | 7.6 | --- | --- | --- | 11.2 | 9.8 | 10.4 |
| 21 | 8.6 | 7.4 | 7.9 | 7.9 | 7.1 | 7.5 | 9.3 | 8.9 | 9.1 | 11.7 | 10.0 | 10.6 |
| 22 | 8.8 | 7.6 | 8.1 | 8.0 | 7.5 | 7.7 | 9.0 | 8.5 | 8.7 | 11.1 | 9.8 | 10.3 |
| 23 | 8.7 | 7.4 | 8.0 | 7.8 | 7.3 | 7.5 | 9.1 | 8.4 | 8.7 | 10.1 | 9.1 | 9.5 |
| 24 | 8.7 | 7.2 | 7.9 | 7.6 | 6.9 | 7.2 | 9.3 | 8.7 | 9.0 | 10.4 | 8.6 | 9.6 |
| 25 | 8.7 | 7.5 | 8.0 | 8.2 | 7.2 | 7.6 | 9.5 | 9.0 | 9.2 | 10.0 | 9.6 | 9.9 |
| 26 | 9.1 | 7.7 | 8.3 | 8.7 | 7.3 | 7.9 | 9.6 | 9.1 | 9.4 | 10.5 | 9.7 | 10.2 |
| 27 | 9.2 | 8.1 | 8.6 | 8.3 | 7.6 | 7.9 | 9.9 | 9.3 | 9.5 | 10.3 | 9.5 | 9.9 |
| 28 | 9.4 | 8.2 | 8.7 | 9.0 | 7.9 | 8.4 | 9.7 | 9.2 | 9.5 | 10.1 | 9.0 | 9.6 |
| 29 | 9.5 | 8.4 | 8.9 | 9.2 | 8.2 | 8.7 | 9.8 | 9.0 | 9.4 | 9.8 | 8.6 | 9.2 |
| 30 | 9.9 | 8.5 | 9.1 | 9.4 | 8.8 | 9.2 | 10.1 | 9.3 | 9.6 | 9.1 | 8.3 | 8.6 |
| 31 | 10.0 | 8.6 | 9.2 | --- | --- | --- | 10.8 | 9.8 | 10.2 | 11.0 | 8.5 | 10.3 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.8 | 8.3 | 10.0 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 10.6 | 10.0 | 10.3 | 13.8 | 10.4 | 11.6 | 7.9 | 7.8 | 7.8 | 9.6 | 7.2 | 8.2 |
| 2 | 10.5 | 10.1 | 10.4 | 12.3 | 9.3 | 10.7 | 7.8 | 7.6 | 7.7 | 8.9 | 7.0 | 7.8 |
| 3 | 10.5 | 9.9 | 10.2 | 13.3 | 10.5 | 11.8 | 8.1 | 7.7 | 7.8 | 8.5 | 7.3 | 7.9 |
| 4 | 10.2 | 9.8 | 10.0 | 14.2 | 11.0 | 12.5 | 9.0 | 8.1 | 8.3 | 9.0 | 7.2 | 8.0 |
| 5 | 10.9 | 9.7 | 10.4 | 14.0 | 10.8 | 12.5 | 9.1 | 9.0 | 9.0 | 9.0 | 6.1 | 7.4 |
| 6 | 11.3 | 10.8 | 11.0 | 13.8 | 10.4 | 12.1 | 9.0 | 8.8 | 8.8 | 6.7 | 6.2 | 6.3 |
| 7 | 11.2 | 10.6 | 10.9 | 13.4 | 9.8 | 11.6 | 8.9 | 8.2 | 8.6 | 7.1 | 6.7 | 7.0 |
| 8 | 11.0 | 10.4 | 10.7 | 11.7 | 9.4 | 10.3 | 8.4 | 7.7 | 8.0 | 7.3 | 7.1 | 7.2 |
| 9 | 10.7 | 10.3 | 10.5 | 11.9 | 8.4 | 9.9 | 7.9 | 7.6 | 7.7 | 7.2 | 6.9 | 7.0 |
| 10 | 10.6 | 10.3 | 10.5 | 14.5 | 9.5 | 11.6 | 7.9 | 7.8 | 7.8 | 7.6 | 6.6 | 6.9 |
| 11 | 11.0 | 10.5 | 10.7 | 12.6 | 10.0 | 11.3 | 8.0 | 7.8 | 7.9 | 7.4 | 6.9 | 7.2 |
| 12 | 10.8 | 10.5 | 10.6 | 14.6 | 9.4 | 11.5 | 8.3 | 7.7 | 8.0 | 7.6 | 7.2 | 7.3 |
| 13 | 10.6 | 10.1 | 10.4 | 14.4 | 9.7 | 11.8 | 8.3 | 8.1 | 8.2 | 8.0 | 7.6 | 7.8 |
| 14 | 10.6 | 10.1 | 10.4 | 13.8 | 9.1 | 11.2 | 8.2 | 7.8 | 8.0 | 8.5 | 8.0 | 8.2 |
| 15 | 10.4 | 9.9 | 10.2 | 11.2 | 8.3 | 9.8 | 8.2 | 7.9 | 8.1 | 9.3 | 8.0 | 8.5 |
| 16 | 10.4 | 9.9 | 10.1 | 11.9 | 8.2 | 9.9 | 8.2 | 7.9 | 8.1 | 9.5 | 8.0 | 8.6 |
| 17 | 10.3 | 9.6 | 10 | 11.5 | 8.4 | 9.8 | 7.9 | 6.7 | 7.2 | 8.6 | 7.1 | 7.7 |
| 18 | 10.1 | 9.4 | 9.7 | 10.0 | 7.1 | 8.4 | 7.8 | 7.1 | 7.4 | 7.9 | 6.8 | 7.3 |
| 19 | 10.0 | 9.2 | 9.6 | 8.2 | 6.6 | 7.6 | 8.1 | 7.8 | 7.9 | 9.4 | 7.7 | 8.4 |
| 20 | 10.1 | 9.1 | 9.6 | 8.0 | 6.9 | 7.2 | 8.1 | 7.9 | 8.0 | 9.9 | 8.0 | 8.8 |
| 21 | 10.9 | 9.2 | 10 | 7.5 | 7.1 | 7.3 | 8.0 | 7.9 | 7.9 | 10.9 | 8.3 | 9.4 |
| 22 | 11.8 | 10.1 | 10.8 | 8.3 | 7.4 | 8.0 | 8.4 | 8.0 | 8.2 | 10.3 | 8.2 | 9.2 |
| 23 | 12.6 | 10.3 | 11.4 | 8.7 | 8.3 | 8.4 | 8.4 | 7.9 | 8.3 | 10.0 | 7.8 | 8.8 |
| 24 | 12.9 | 10.3 | 11.5 | 8.8 | 8.4 | 8.6 | 7.9 | 7.4 | 7.7 | 9.1 | 7.7 | 8.4 |
| 25 | 13.4 | 10.0 | 11.6 | 8.5 | 8.3 | 8.3 | 8.4 | 7.1 | 7.7 | 9.6 | 7.5 | 8.4 |
| 26 | 15.3 | 10.8 | 12.8 | 9.1 | 8.5 | 8.8 | 8.1 | 7.6 | 7.8 | 9.1 | 7.2 | 8.0 |
| 27 | 15.9 | 11.8 | 13.7 | 9.3 | 9.1 | 9.2 | 8.2 | 7.4 | 7.8 | 8.1 | 6.7 | 7.2 |
| 28 | 15.5 | 11.7 | 13.6 | 9.2 | 8.0 | 8.6 | 8.2 | 7.5 | 7.8 | 7.4 | 6.4 | 6.8 |
| 29 | --- | --- | --- | 8.0 | 7.5 | 7.9 | 8.8 | 7.1 | 7.8 | 7.1 | 6.4 | 6.7 |
| 30 | --- | --- | --- | 9.0 | 7.2 | 7.7 | 9.4 | 7.3 | 8.2 | 6.7 | 5.7 | 6.2 |
| 31 | --- | --- | --- | 7.8 | 7.2 | 7.4 | --- | --- | --- | 6.5 | 5.3 | 5.9 |
| MONTH | 15.9 | 9.1 | 10.8 | 14.6 | 6.6 | 9.8 | 9.4 | 6.7 | 8.0 | 10.9 | 5.3 | 7.7 |

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

O XYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 6.1 | 4.6 | 5.4 | 7.6 | 6.1 | 6.6 | 9.4 | 6.2 | 7.5 | 9.7 | 7.0 | 8.2 |
| 2 | 5.5 | 2.8 | 4.0 | 7.4 | 6.1 | 6.6 | 9.7 | 6.8 | 8.1 | 9.4 | 6.8 | 7.9 |
| 3 | 5.0 | 2.9 | 3.5 | 7.5 | 6.5 | 7.1 | 9.2 | 6.8 | 7.9 | 9.1 | 6.4 | 7.7 |
| 4 | 8.2 | 2.2 | 5.3 | 7.1 | 6.5 | 6.9 | 8.7 | 6.8 | 7.7 | 8.5 | 6.3 | 7.3 |
| 5 | 7.5 | 6.1 | 6.7 | 7.7 | 6.8 | 7.2 | 8.3 | 6.8 | 7.5 | 8.5 | 6.2 | 7.2 |
| 6 | 8.0 | 6.6 | 7.2 | 7.3 | 6.6 | 6.9 | 8.2 | 6.8 | 7.4 | 7.9 | 5.9 | 6.9 |
| 7 | 9.6 | 6.9 | 8.0 | 7.4 | 6.4 | 6.8 | 8.5 | 7.0 | 7.5 | --- | 5.9 | --- |
| 8 | 9.2 | 7.0 | 8.0 | 8.9 | 6.7 | 7.5 | 8.6 | 6.9 | 7.6 | 6.4 | 5.5 | 5.9 |
| 9 | 9.3 | 6.9 | 8.0 | 9.2 | 6.9 | 7.8 | 8.8 | 7.4 | 8.0 | 5.9 | 5.2 | 5.4 |
| 10 | 8.2 | 6.7 | 7.4 | 10.8 | 7.0 | 8.6 | 8.3 | 5.3 | 7.5 | 6.4 | 5.4 | 5.9 |
| 11 | 9.4 | 6.5 | 7.6 | 9.5 | 6.9 | 8.1 | 5.7 | 2.6 | 4.6 | 8.2 | 5.7 | 6.6 |
| 12 | --- | --- | --- | 8.1 | 5.3 | 6.4 | 7.0 | 5.7 | 6.5 | 7.7 | 5.8 | 6.8 |
| 13 | --- | --- | --- | 8.2 | 6.0 | 6.9 | 8.0 | 6.9 | 7.3 | 8.1 | 5.9 | 6.9 |
| 14 | --- | --- | --- | 7.5 | 6.3 | 6.9 | 8.6 | 7.3 | 7.8 | 8.0 | 5.8 | 6.8 |
| 15 | --- | --- | --- | 7.0 | 5.4 | 6.0 | 7.9 | 6.5 | 7.0 | 7.7 | 5.8 | 6.7 |
| 16 | --- | --- | --- | 7.4 | 5.5 | 6.4 | 9.6 | 6.8 | 7.9 | 7.1 | 5.8 | 6.4 |
| 17 | --- | --- | --- | 7.4 | 5.9 | 6.6 | 9.5 | 7.8 | 8.6 | 8.4 | 6.1 | 7.0 |
| 18 | 7.7 | 6.0 | 6.6 | 8.5 | 6.7 | 7.5 | 10.7 | 8.1 | 9.2 | 9.5 | 6.3 | 7.6 |
| 19 | 9.1 | 6.3 | 7.4 | 8.8 | 6.5 | 7.4 | 9.9 | 7.5 | 8.6 | 7.9 | 5.9 | 6.5 |
| 20 | 9.5 | 6.7 | 7.9 | 10.4 | 6.5 | 8.0 | 9.8 | 7.4 | 8.6 | 7.0 | 5.6 | 6.1 |
| 21 | 8.2 | 6.5 | 7.1 | 9.6 | 6.4 | 7.9 | 8.9 | 7.0 | 8.0 | 8.0 | 6.1 | 6.8 |
| 22 | 9.6 | 6.0 | 7.5 | 9.0 | 6.5 | 7.6 | 8.7 | 6.9 | 7.9 | 9.3 | 6.5 | 7.6 |
| 23 | 10.0 | 6.7 | 8.1 | 8.8 | 6.3 | 7.4 | 9.0 | 7.2 | 8.0 | 9.4 | 6.6 | 7.8 |
| 24 | 9.8 | 6.6 | 8.1 | 8.7 | 6.3 | 7.4 | 8.9 | 7.2 | 8.0 | 8.8 | 6.9 | 7.8 |
| 25 | 8.6 | 4.4 | 7.1 | 9.1 | 6.5 | 7.6 | 8.1 | 6.7 | 7.4 | 8.0 | 6.7 | 7.3 |
| 26 | 7.7 | 4.1 | 6.0 | 9.5 | 6.6 | 7.8 | 8.1 | 7.0 | 7.3 | 7.3 | 6.3 | 6.8 |
| 27 | 6.4 | 5.7 | 6.1 | 9.1 | 6.6 | 7.7 | 7.1 | 4.9 | 5.8 | 7.4 | 6.1 | 6.7 |
| 28 | 6.9 | 5.5 | 6.0 | 8.7 | 6.6 | 7.5 | 6.6 | 5.9 | 6.2 | 7.3 | 6.0 | 6.6 |
| 29 | 6.0 | 5.2 | 5.7 | 7.4 | 6.5 | 7.0 | 8.1 | 6.5 | 7.2 | 7.3 | 6.1 | 6.6 |
| 30 | 7.4 | 5.5 | 6.3 | 7.1 | 5.0 | 6.4 | 9.4 | 6.9 | 8.1 | 7.4 | 6.0 | 6.6 |
| 31 | --- | --- | --- | 7.1 | 5.0 | 6.3 | 9.9 | 7.2 | 8.3 | --- | --- | --- |
| MONTH | --- | --- | --- | 10.8 | 5.0 | 7.2 | 10.7 | 2.6 | 7.6 | --- | 5.2 | --- |



## 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 $mi^2$.

PERIOD OF RECORD.--Oct. 1985 to Sept. 1987, 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 good. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | 11 | 0.00 | 2.8 | 0.53 | 0.66 | 0.00 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.07 | 0.45 | 0.29 | 0.00 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 66 | 0.13 | 46 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17 | 0.08 | 23 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 189 | 0.00 | 0.00 | 366 | 0.05 | 2.4 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 122 | 0.00 | 0.03 | 27 | 0.03 | 0.52 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 24 | 0.00 | 148 | 4.6 | 0.0 | 0.11 | 0.00 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 1.1 | 0.00 | 365 | 1.9 | 0.00 | 0.02 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 16 | 1.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.5 | 137 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.8 | 12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.0 | 2.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.7 | 2.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.2 | 1.9 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.0 | 1.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 654 | 0.00 | 0.00 | 0.00 | 20 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 0.00 | 0.00 | 75 | 0.00 | 0.00 | 0.00 | 95 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 1.3 | 0.00 | 0.00 | 0.00 | 7.0 | 0.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 127 | 2.7 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 333 | 1.6 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.4 | 1.2 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.94 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.70 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.50 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.5 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.1 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 0.81 | 3.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.00 | --- | 382 | 0.65 | 3.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | 711 | --- | 92 | --- | 1.3 | --- | 0.00 | 0.00 | --- |
| TOTAL | 45.16 | 0.00 | 730.30 | 711.06 | 347.22 | 943.52 | 686.53 | 656.52 | 1.24 | 72.05 | 0.00 | 0.00 |
| MEAN | 1.457 | 0.000 | 23.56 | 22.94 | 12.40 | 30.44 | 22.88 | 21.18 | 0.041 | 2.324 | 0.000 | 0.000 |
| MAX | 45 | 0.00 | 654 | 711 | 189 | 382 | 365 | 366 | 0.66 | 46 | 0.00 | 0.00 |
| MIN | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| AC-FT | 90 | 0.00 | 1450 | 1410 | 689 | 1870 | 1360 | 1300 | 2.5 | 143 | 0.00 | 0.00 |

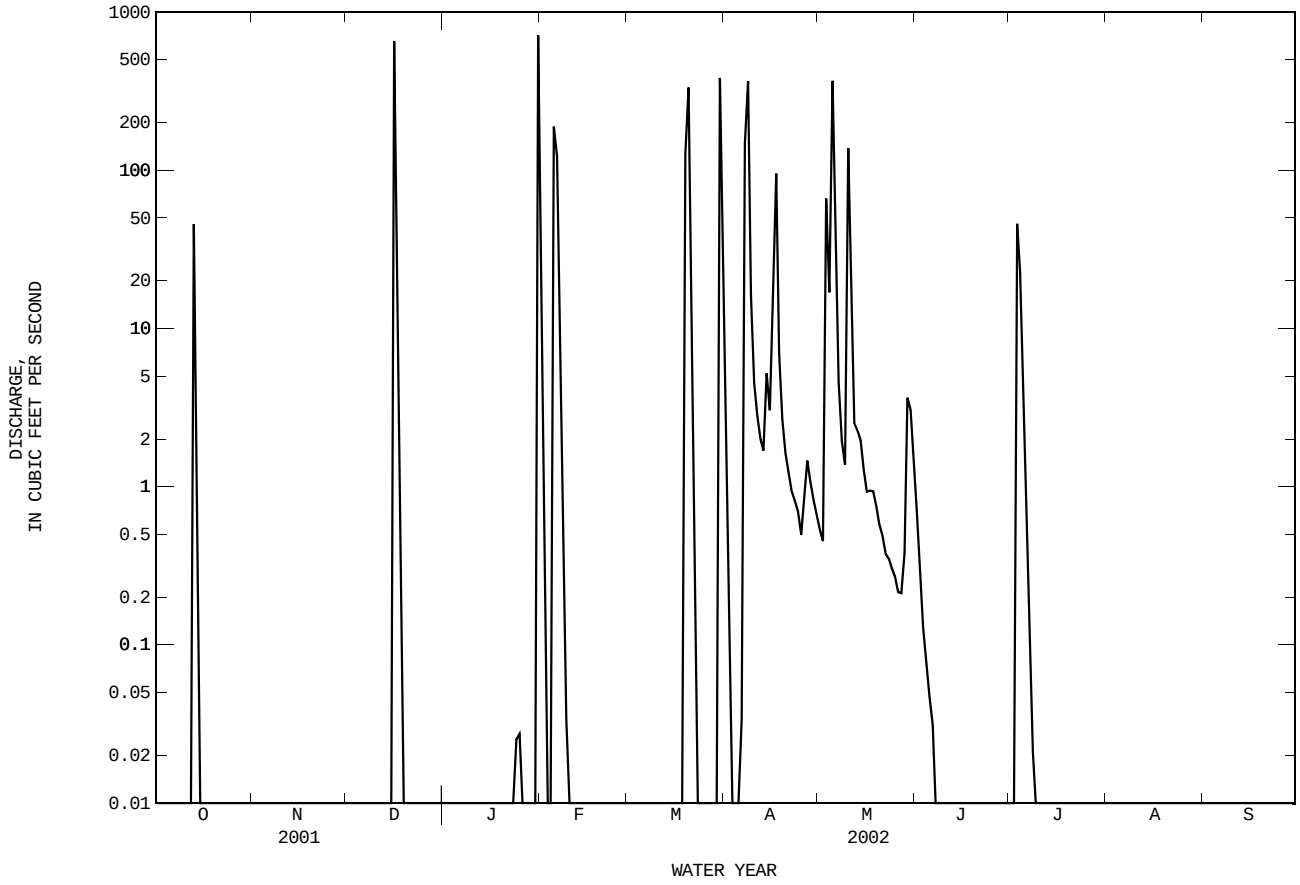
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 13.51 | 9.183 | 32.59 | 11.30 | 30.19 | 21.07 | 23.92 | 23.16 | 15.80 | 1.084 | 3.083 | 3.525 |
| MAX | 140 | 29.9 | 144 | 34.7 | 148 | 66.8 | 80.7 | 71.8 | 54.0 | 8.77 | 24.0 | 29.8 |
| (WY) | 1992 | 1999 | 1992 | 1992 | 1997 | 1995 | 1997 | 1995 | 1995 | 1991 | 1991 | 1991 |
| MIN | 0.000 | 0.000 | 0.000 | 0.005 | 0.074 | 0.032 | 0.010 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1991 | 1994 | 1991 | 1994 | 1995 | 1996 | 1994 | 1998 | 1996 | 1993 | 1986 | 1987 |

| SUMMARY STATISTICS | FOR 2002 WATER YEAR | | WATER YEARS 1986 - 2002h | |
|---|---|---|---|---|
| ANNUAL TOTAL | 4193.60 | | | |
| ANNUAL MEAN | 11.49 | | 15.84 | |
| HIGHEST ANNUAL MEAN | | | 43.1 | 1992 |
| LOWEST ANNUAL MEAN | | | 1.84 | 1994 |
| HIGHEST DAILY MEAN | 711 | Jan 31 | 3340 | May 17 1989 |
| LOWEST DAILY MEAN | 0.00 | Oct 1 | 0.00 | Oct 1 1985 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Oct 1 | 0.00 | Oct 1 1985 |
| MAXIMUM PEAK FLOW | 2420 | Mar 4 | | |
| MAXIMUM PEAK STAGE | 10.53 | Mar 4 | | |
| ANNUAL RUNOFF (AC-FT) | 8320 | | 11470 | |
| 10 PERCENT EXCEEDS | 2.6 | | 19 | |
| 50 PERCENT EXCEEDS | 0.00 | | 0.01 | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | |

h See PERIOD OF RECORD paragraph.

08049580 Mountain Creek near Venus, TX--Continued



## 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 $mi^2$.

PERIOD OF RECORD.--Oct. 1960 to current year.
Water-quality records.--Chemical data: Dec. 1985 to Sept. 1993. Biochemical data: Dec. 1985 to Sept. 1993.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

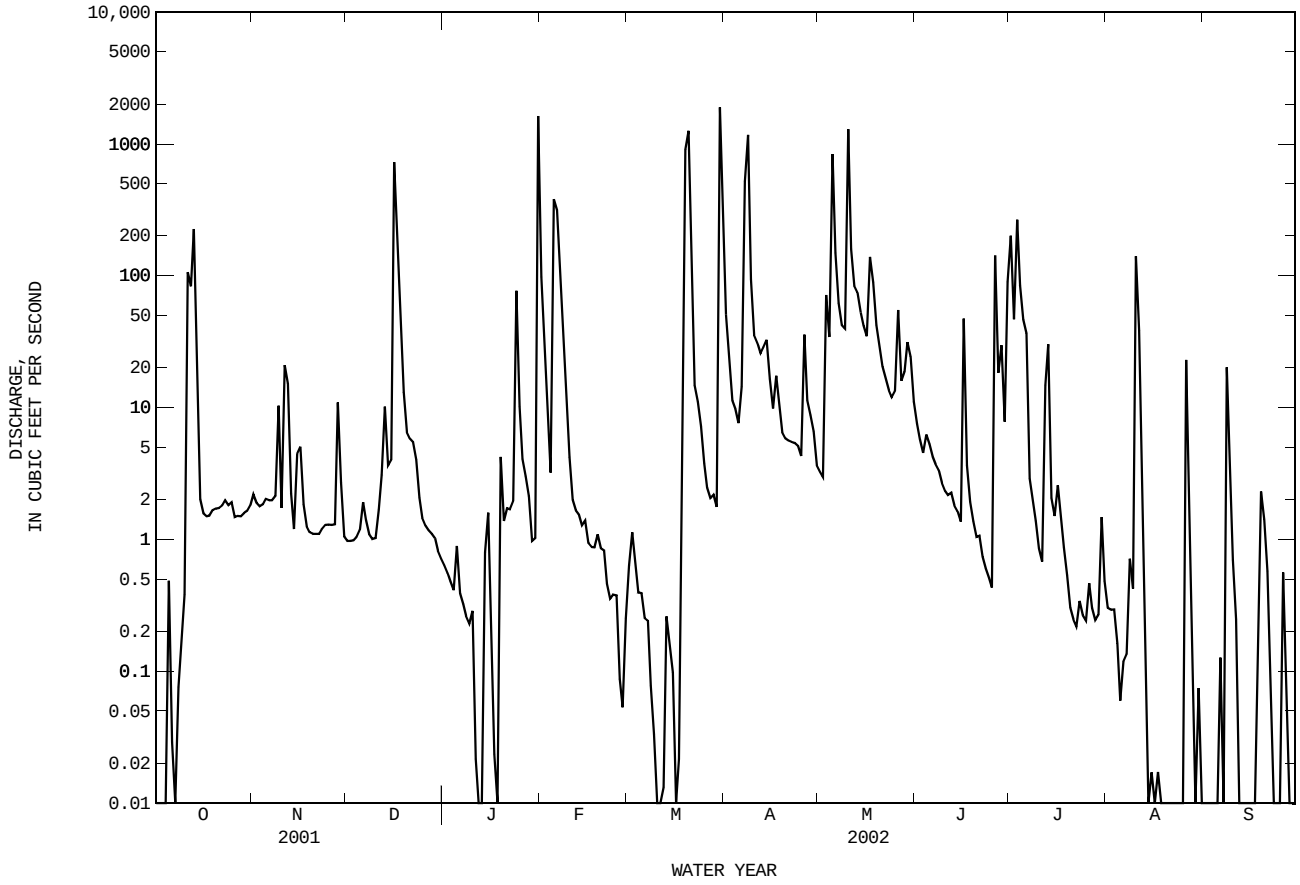
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 2.2 | 0.97 | 0.64 | 98 | 0.63 | 50 | 3.3 | 7.5 | 201 | 0.30 | 0.00 |
| 2 | 0.00 | 1.9 | 0.97 | 0.56 | 24 | 1.1 | 22 | 3.0 | 5.7 | 47 | 0.29 | 0.00 |
| 3 | 0.00 | 1.8 | 0.98 | 0.48 | 8.9 | 0.68 | 11 | 71 | 4.5 | 264 | 0.29 | 0.00 |
| 4 | 0.00 | 1.8 | 1.0 | 0.41 | 3.2 | 0.40 | 9.8 | 34 | 6.2 | 84 | 0.16 | 0.00 |
| 5 | 0.48 | 2.0 | 1.2 | 0.89 | 379 | 0.39 | 7.6 | 835 | 5.3 | 46 | 0.06 | 0.00 |
| 6 | 0.03 | 2.0 | 1.9 | 0.39 | 314 | 0.25 | 14 | 148 | 4.2 | 36 | 0.12 | 0.13 |
| 7 | 0.00 | 2.0 | 1.4 | 0.32 | 91 | 0.24 | 520 | 62 | 3.7 | 2.9 | 0.13 | 0.00 |
| 8 | 0.08 | 2.1 | 1.1 | 0.26 | 31 | 0.08 | 1160 | 42 | 3.3 | 2.0 | 0.71 | 20 |
| 9 | 0.16 | 10 | 1.0 | 0.23 | 13 | 0.03 | 93 | 40 | 2.7 | 1.4 | 0.42 | 4.6 |
| 10 | 0.38 | 1.7 | 1.0 | 0.29 | 4.2 | 0.00 | 35 | 1290 | 2.3 | 0.85 | 140 | 0.69 |
| 11 | 106 | 21 | 1.7 | 0.02 | 2.0 | 0.00 | 31 | 159 | 2.2 | 0.68 | 38 | 0.25 |
| 12 | 83 | 15 | 3.1 | 0.00 | 1.7 | 0.01 | 26 | 84 | 2.2 | 15 | 1.4 | 0.00 |
| 13 | 226 | 2.2 | 10 | 0.00 | 1.5 | 0.26 | 29 | 75 | 1.8 | 30 | 0.17 | 0.00 |
| 14 | 17 | 1.2 | 3.6 | 0.80 | 1.3 | 0.16 | 33 | 53 | 1.6 | 2.1 | 0.00 | 0.00 |
| 15 | 2.0 | 4.4 | 4.0 | 1.6 | 1.4 | 0.10 | 16 | 42 | 1.4 | 1.5 | 0.02 | 0.00 |
| 16 | 1.6 | 5.0 | 726 | 0.27 | 0.94 | 0.00 | 9.8 | 35 | 47 | 2.6 | 0.00 | 0.00 |
| 17 | 1.5 | 1.8 | 189 | 0.02 | 0.87 | 0.02 | 17 | 139 | 3.6 | 1.4 | 0.02 | 0.00 |
| 18 | 1.5 | 1.3 | 38 | 0.00 | 0.87 | 9.5 | 11 | 89 | 1.9 | 0.87 | 0.00 | 0.13 |
| 19 | 1.7 | 1.1 | 13 | 4.2 | 1.1 | 905 | 6.5 | 42 | 1.4 | 0.54 | 0.00 | 2.3 |
| 20 | 1.7 | 1.1 | 6.5 | 1.4 | 0.86 | 1250 | 5.8 | 30 | 1.0 | 0.30 | 0.00 | 1.4 |
| 21 | 1.7 | 1.1 | 5.8 | 1.7 | 0.82 | 79 | 5.6 | 21 | 1.1 | 0.25 | 0.00 | 0.57 |
| 22 | 1.8 | 1.1 | 5.5 | 1.7 | 0.46 | 15 | 5.5 | 17 | 0.73 | 0.22 | 0.00 | 0.08 |
| 23 | 2.0 | 1.2 | 4.0 | 1.9 | 0.35 | 11 | 5.4 | 14 | 0.60 | 0.34 | 0.00 | 0.00 |
| 24 | 1.8 | 1.3 | 2.1 | 77 | 0.38 | 7.2 | 5.1 | 12 | 0.51 | 0.27 | 0.00 | 0.00 |
| 25 | 1.9 | 1.3 | 1.5 | 10 | 0.38 | 3.8 | 4.3 | 13 | 0.43 | 0.24 | 0.00 | 0.0 |
| 26 | 1.5 | 1.3 | 1.3 | 4.1 | 0.09 | 2.5 | 36 | 55 | 142 | 0.47 | 23 | 0.56 |
| 27 | 1.5 | 1.3 | 1.2 | 3.0 | 0.05 | 2.1 | 11 | 16 | 18 | 0.30 | 1.9 | 0.10 |
| 28 | 1.5 | 11 | 1.1 | 2.1 | 0.25 | 2.2 | 8.8 | 19 | 30 | 0.24 | 0.08 | 0.0 |
| 29 | 1.6 | 2.7 | 1.0 | 0.97 | --- | 1.8 | 6.6 | 31 | 7.8 | 0.27 | 0.00 | 0.00 |
| 30 | 1.6 | 1.1 | 0.82 | 1.0 | --- | 1880 | 3.6 | 24 | 89 | 1.5 | 0.07 | 0.00 |
| 31 | 1.8 | --- | 0.71 | 1620 | --- | 317 | --- | 11 | --- | 0.48 | 0.00 | --- |
| TOTAL | 461.83 | 105.0 | 1031.45 | 1736.25 | 981.62 | 4490.45 | 2199.4 | 3509.3 | 399.67 | 744.72 | 207.14 | 30.81 |
| MEAN | 14.90 | 3.500 | 33.27 | 56.01 | 35.06 | 144.9 | 73.31 | 113.2 | 13.32 | 24.02 | 6.682 | 1.027 |
| MAX | 226 | 21 | 726 | 1620 | 379 | 1880 | 1160 | 1290 | 142 | 264 | 140 | 20 |
| MIN | 0.00 | 1.1 | 0.71 | 0.00 | 0.05 | 0.00 | 3.6 | 3.0 | 0.43 | 0.22 | 0.00 | 0.00 |
| AC-FT | 916 | 208 | 2050 | 3440 | 1950 | 8910 | 4360 | 6960 | 793 | 1480 | 411 | 61 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 17.65 | 10.15 | 19.87 | 9.144 | 25.32 | 31.21 | 38.27 | 51.12 | 29.93 | 5.000 | 3.640 | 6.221 |
| MAX | 272 | 164 | 326 | 64.5 | 173 | 184 | 174 | 378 | 300 | 57.1 | 55.9 | 67.4 |
| (WY) | 1992 | 2001 | 1992 | 1992 | 1997 | 1977 | 1990 | 1989 | 1986 | 1975 | 2001 | 1973 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.014 | 0.13 | 0.40 | 0.074 | 0.030 | 0.000 | 0.000 | 0.000 |
| (WY) | 1964 | 1961 | 1964 | 1981 | 1981 | 1963 | 1978 | 1962 | 1963 | 1964 | 1961 | 1971 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1961 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 12246.85 | | 15897.64 | | | |
| ANNUAL MEAN | 33.55 | | 43.56 | | 20.59 | |
| HIGHEST ANNUAL MEAN | | | | | 82.2 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 1.34 | 1978 |
| HIGHEST DAILY MEAN | 2010 | Feb 16 | 1880 | Mar 30 | 7900 | May 17 1989 |
| LOWEST DAILY MEAN | 0.00 | Jan 1 | 0.00 | Oct 1 | 0.00 | Oct 1 1960 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jan 1 | 0.00 | Aug 18 | 0.00 | Oct 15 1960 |
| MAXIMUM PEAK FLOW | | | 3480 | Mar 30 | 22800 | May 17 1989 |
| MAXIMUM PEAK STAGE | | | 23.23 | Mar 30 | 33.77 | May 17 1989 |
| ANNUAL RUNOFF (AC-FT) | 24290 | | 31530 | | 14910 | |
| 10 PERCENT EXCEEDS | 28 | | 54 | | 15 | |
| 50 PERCENT EXCEEDS | 1.5 | | 1.7 | | 0.29 | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | | 0.00 | |

08049700 Walnut Creek near Mansfield, TX--Continued



## 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 $mi^2$.

PERIOD OF RECORD.--Jan. 1986 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year.
Water-quality records.--Chemical data: Jan. 1986 to Sept. 1993. Biochemical data: Jan. 1986 to Sept. 1993.

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 except those for estimated daily contents, which are fair. 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 |

COOPERATION.--Capacity Table No. 2 furnished by the U.S. Army Corps of Engineers.

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 contents, 191,200 acre-ft, May 10, elevation, 523.86 ft; minimum contents, 170,100 acre-ft, Sept. 30, elevation, 521.08 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

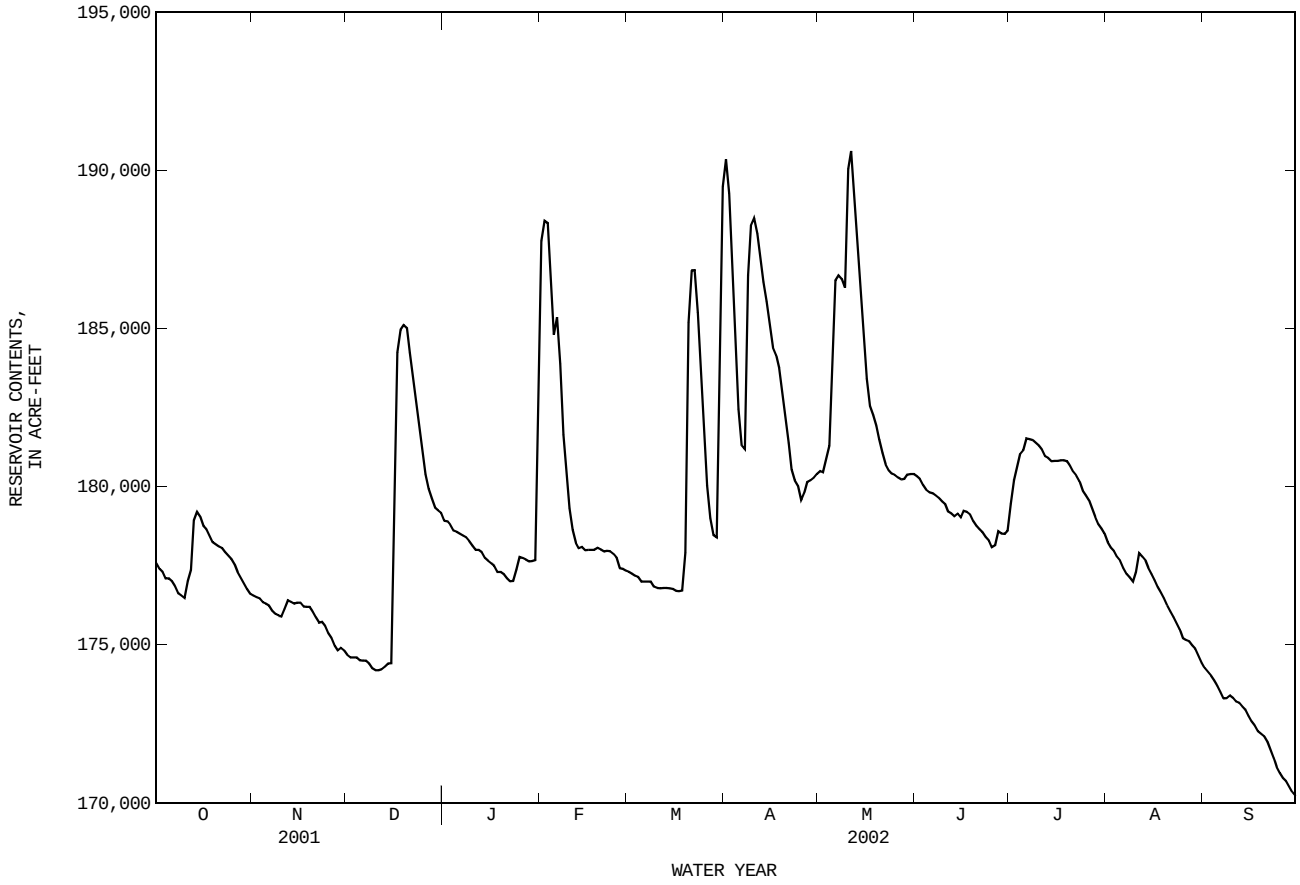
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 177600 | 176600 | 174700 | 178900 | 187800 | 177300 | 190300 | 180500 | 180300 | 179500 | 178200 | 174300 |
| 2 | 177400 | 176500 | 174600 | 178900 | 188400 | 177200 | 189300 | 180400 | 180200 | 180200 | 178100 | 174100 |
| 3 | 177300 | 176500 | 174600 | 178800 | 188300 | 177200 | 186800 | 180900 | 180100 | 180600 | 178000 | 174000 |
| 4 | 177100 | 176300 | 174600 | 178600 | 186500 | 177100 | 184700 | 181300 | 179900 | 181000 | 177800 | 173900 |
| 5 | 177100 | 176300 | 174500 | 178600 | 184800 | 177000 | 182500 | 183900 | 179800 | 181100 | 177700 | 173700 |
| 6 | 177000 | 176200 | 174500 | 178500 | 185400 | 177000 | 181300 | 186500 | 179800 | 181500 | 177400 | 173500 |
| 7 | 176800 | 176100 | 174500 | 178400 | 183900 | 177000 | 181200 | 186700 | 179700 | 181500 | 177200 | 173300 |
| 8 | 176600 | 176000 | 174400 | 178400 | 181600 | 177000 | 186700 | 186600 | 179700 | 181500 | 177100 | 173300 |
| 9 | 176600 | 175900 | 174300 | 178300 | 180500 | 176800 | 188200 | 186300 | 179500 | 181400 | 177000 | 173400 |
| 10 | 176500 | 175900 | 174200 | 178100 | 179300 | 176800 | 188500 | 190000 | 179400 | 181300 | 177300 | 173300 |
| 11 | 177000 | 176100 | 174200 | 178000 | 178600 | 176800 | 188000 | 190600 | 179200 | 181200 | 177900 | 173200 |
| 12 | 177400 | 176400 | 174200 | 178000 | 178200 | 176800 | 187200 | 189200 | 179200 | 181000 | 177800 | 173200 |
| 13 | 178900 | 176400 | 174300 | 177900 | 178000 | 176800 | 186500 | 187900 | 179100 | 180900 | 177700 | 173000 |
| 14 | 179200 | 176300 | 174400 | 177700 | 178100 | 176800 | 185800 | 186500 | 179100 | e180800 | 177400 | 172900 |
| 15 | 179100 | 176300 | 174400 | 177700 | 178000 | 176800 | 185200 | 184900 | 179000 | e180800 | 177200 | 172800 |
| 16 | 178800 | 176300 | 179400 | 177600 | 178000 | 176700 | 184400 | 183400 | 179200 | e180800 | 177000 | 172600 |
| 17 | 178600 | 176200 | 184200 | 177500 | 178000 | 176700 | 184200 | 182500 | 179200 | 180800 | 176800 | 172400 |
| 18 | 178500 | 176200 | 184900 | 177300 | 178000 | 176700 | 183800 | 182300 | 179100 | 180800 | 176600 | 172300 |
| 19 | 178200 | 176200 | 185100 | 177300 | 178100 | 177900 | 183000 | 181900 | 178900 | 180800 | 176500 | 172200 |
| 20 | 178200 | 176100 | 185000 | 177200 | 178000 | 185200 | 182200 | 181500 | 178800 | 180700 | 176200 | 172100 |
| 21 | 178100 | 175900 | 184200 | 177100 | 177900 | 186800 | 181400 | 181100 | 178700 | 180500 | 176100 | 171900 |
| 22 | 178000 | 175700 | 183500 | 177000 | 178000 | 186800 | 180500 | 180700 | 178600 | 180400 | 175900 | 171700 |
| 23 | 177900 | 175700 | 182800 | 177000 | 178000 | 185500 | 180200 | 180500 | 178400 | 180200 | 175700 | 171400 |
| 24 | 177800 | 175600 | 182000 | 177400 | 177900 | 183700 | 180000 | 180400 | 178300 | 179900 | 175500 | 171100 |
| 25 | 177700 | 175400 | 181200 | 177800 | 177800 | 181800 | 179600 | 180400 | 178100 | 179700 | 175200 | 171000 |
| 26 | 177500 | 175200 | 180400 | 177700 | 177400 | 180000 | 179800 | 180300 | 178100 | 179600 | 175100 | 170800 |
| 27 | 177300 | 175000 | 179900 | 177700 | 177400 | 179000 | 180100 | 180200 | 178600 | 179300 | 175100 | 170700 |
| 28 | 177100 | 174800 | 179600 | 177600 | 177300 | 178500 | 180200 | 180200 | 178500 | 179000 | 175000 | 170500 |
| 29 | 176900 | 174900 | 179300 | 177600 | --- | 178400 | 180300 | 180400 | 178500 | 178800 | 174900 | 170300 |
| 30 | 176800 | 174800 | 179300 | 177700 | --- | 184200 | 180400 | 180400 | 178600 | 178700 | 174700 | 170200 |
| 31 | 176600 | --- | 179200 | 183700 | --- | 189500 | --- | 180400 | --- | 178500 | 174400 | --- |
| MEAN | 177600 | 175900 | 178300 | 178100 | 180300 | 179400 | 183700 | 183200 | 179100 | 180400 | 176600 | 172400 |
| MAX | 179200 | 176600 | 185100 | 183700 | 188400 | 189500 | 190300 | 190600 | 180300 | 181500 | 178200 | 174300 |
| MIN | 176500 | 174800 | 174200 | 177000 | 177300 | 176700 | 179600 | 180200 | 178100 | 178500 | 174400 | 170200 |
| (+) | 521.96 | 521.72 | 522.30 | 522.89 | 522.06 | 523.65 | 522.46 | 522.46 | 522.22 | 522.21 | 521.66 | 521.09 |
| (@) | 0 | -1800 | +4400 | +4500 | -6400 | +12200 | -9100 | 0 | -1800 | -100 | -4100 | -4200 |

CAL YR 2001 MAX 208100 MIN 172100 (@) +4000
WTR YR 2002 MAX 190600 MIN 170200 (@) -6400

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08049800 Joe Pool Lake near Duncanville, TX--Continued



## 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 $mi^2$.

PERIOD OF RECORD.--Oct. 1960 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.--No estimated daily contents. Records good. 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. Dry weather conservation pool storage is 20,776 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 467.0 |
| Top of gates | 458.0 |
| Top of dry weather conservation pool | 457.0 |
| Top of wet weather conservation pool | 456.0 |
| Crest of spillway (sill of tainter gates) | 431.0 |

COOPERATION.--Capacity Table No. 1 was provided by the Dallas Power and Light Co., and was replaced by Capacity Table No. 2, furnished by TXU Electric of Dallas, and put into effect Oct. 1, 2000.

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 contents, 22,870 acre-ft, Jan. 31, elevation, 457.78 ft; minimum contents, 19,000 acre-ft, Sept. 18, elevation, 456.28 ft.

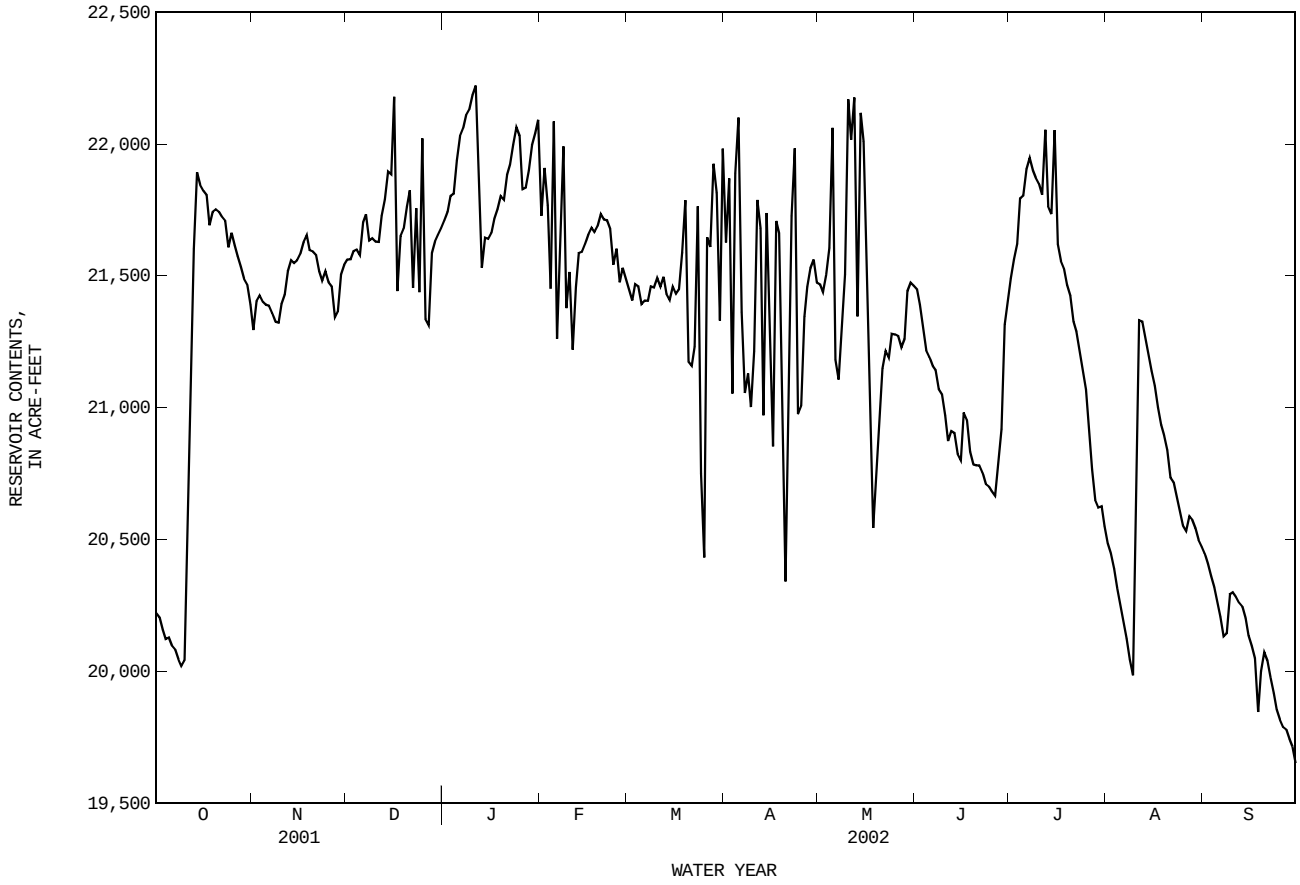
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20220 | 21290 | 21560 | 21710 | 21730 | 21440 | 21630 | 21470 | 21450 | 21490 | 20480 | 20450 |
| 2 | 20200 | 21400 | 21560 | 21740 | 21910 | 21410 | 21870 | 21440 | 21390 | 21560 | 20440 | 20410 |
| 3 | 20160 | 21420 | 21590 | 21800 | 21770 | 21470 | 21050 | 21500 | 21300 | 21620 | 20390 | 20360 |
| 4 | 20120 | 21400 | 21600 | 21810 | 21450 | 21460 | 21890 | 21610 | 21220 | 21790 | 20310 | 20320 |
| 5 | 20130 | 21390 | 21580 | 21940 | 22080 | 21390 | 22100 | 22060 | 21190 | 21800 | 20250 | 20260 |
| 6 | 20100 | 21390 | 21700 | 22030 | 21260 | 21410 | 21360 | 21180 | 21160 | 21900 | 20190 | 20210 |
| 7 | 20080 | 21360 | 21730 | 22060 | 21690 | 21400 | 21050 | 21110 | 21140 | 21950 | 20120 | 20130 |
| 8 | 20040 | 21330 | 21630 | 22110 | 21990 | 21460 | 21130 | 21300 | 21070 | 21900 | 20040 | 20140 |
| 9 | 20020 | 21320 | 21640 | 22130 | 21380 | 21460 | 21000 | 21500 | 21050 | 21870 | 19980 | 20290 |
| 10 | 20040 | 21390 | 21630 | 22190 | 21510 | 21490 | 21210 | 22170 | 20970 | 21850 | 20470 | 20300 |
| 11 | 20410 | 21430 | 21630 | 22220 | 21220 | 21460 | 21790 | 22020 | 20870 | 21810 | 21330 | 20280 |
| 12 | 20820 | 21520 | 21730 | 21940 | 21460 | 21500 | 21680 | 22180 | 20910 | 22050 | 21330 | 20260 |
| 13 | 21600 | 21560 | 21790 | 21530 | 21590 | 21430 | 20970 | 21340 | 20900 | 21760 | 21260 | 20240 |
| 14 | 21890 | 21550 | 21900 | 21640 | 21590 | 21410 | 21740 | 22120 | 20820 | 21730 | 21210 | 20200 |
| 15 | 21840 | 21560 | 21880 | 21640 | 21620 | 21460 | 21280 | 22010 | 20800 | 22050 | 21140 | 20130 |
| 16 | 21820 | 21580 | 22180 | 21660 | 21660 | 21430 | 20850 | 21500 | 20980 | 21620 | 21080 | 20100 |
| 17 | 21810 | 21630 | 21440 | 21720 | 21680 | 21450 | 21710 | 21000 | 20950 | 21550 | 21000 | 20050 |
| 18 | 21690 | 21650 | 21650 | 21750 | 21670 | 21590 | 21660 | 20540 | 20830 | 21530 | 20930 | 19840 |
| 19 | 21740 | 21600 | 21680 | 21800 | 21690 | 21790 | 20850 | 20750 | 20780 | 21460 | 20900 | 20000 |
| 20 | 21750 | 21590 | 21760 | 21790 | 21730 | 21170 | 20340 | 20960 | 20780 | 21420 | 20840 | 20070 |
| 21 | 21740 | 21580 | 21820 | 21880 | 21710 | 21160 | 20950 | 21150 | 20780 | 21330 | 20730 | 20040 |
| 22 | 21720 | 21520 | 21450 | 21920 | 21710 | 21230 | 21730 | 21220 | 20750 | 21290 | 20720 | 19970 |
| 23 | 21710 | 21480 | 21760 | 22000 | 21680 | 21760 | 21980 | 21190 | 20710 | 21220 | 20670 | 19920 |
| 24 | 21610 | 21520 | 21440 | 22060 | 21540 | 20750 | 20980 | 21280 | 20700 | 21140 | 20610 | 19850 |
| 25 | 21660 | 21470 | 22020 | 22030 | 21600 | 20430 | 21000 | 21280 | 20680 | 21070 | 20550 | 19820 |
| 26 | 21610 | 21460 | 21330 | 21830 | 21470 | 21650 | 21340 | 21270 | 20670 | 20900 | 20530 | 19790 |
| 27 | 21570 | 21340 | 21310 | 21830 | 21530 | 21610 | 21460 | 21230 | 20780 | 20770 | 20590 | 19780 |
| 28 | 21530 | 21360 | 21590 | 21900 | 21490 | 21920 | 21530 | 21260 | 20920 | 20650 | 20570 | 19740 |
| 29 | 21490 | 21500 | 21630 | 22000 | --- | 21810 | 21560 | 21440 | 21320 | 20620 | 20540 | 19710 |
| 30 | 21470 | 21540 | 21650 | 22040 | --- | 21330 | 21470 | 21470 | 21390 | 20620 | 20500 | 19650 |
| 31 | 21390 | --- | 21680 | 22090 | --- | 21980 | --- | 21460 | --- | 20550 | 20470 | --- |
| MEAN | 21100 | 21470 | 21660 | 21900 | 21620 | 21440 | 21370 | 21420 | 20980 | 21450 | 20650 | 20080 |
| MAX | 21890 | 21650 | 22180 | 22220 | 22080 | 21980 | 22100 | 22180 | 21450 | 22050 | 21330 | 20450 |
| MIN | 20020 | 21290 | 21310 | 21530 | 21220 | 20430 | 20340 | 20540 | 20670 | 20550 | 19980 | 19650 |
| (+) | 457.23 | 457.28 | 457.34 | 457.49 | 457.26 | 457.45 | 457.26 | 457.26 | 457.23 | 456.91 | 456.88 | 456.54 |
| (@) | +1160 | +150 | +140 | +410 | -600 | +490 | -510 | -10 | -70 | -840 | -80 | -820 |

CAL YR 2001 MAX 22380 MIN 17850 (@) +580
WTR YR 2002 MAX 22220 MIN 19650 (@) -580

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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 $mi^2$.

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.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1960, at least 10% of contributing drainage area has been regulated. No known diversions.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

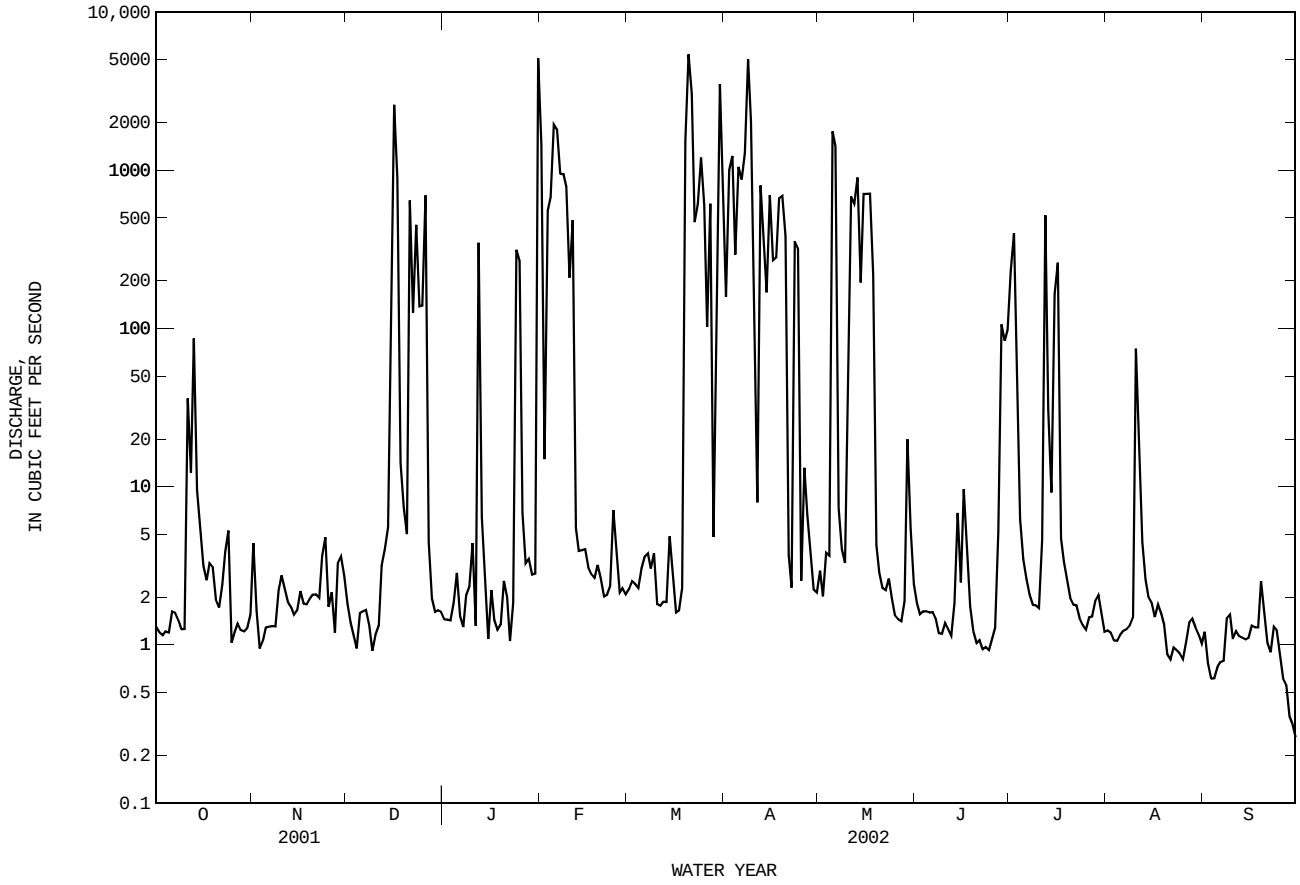
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.3 | 4.4 | 1.8 | 1.4 | 1460 | 2.2 | 158 | 2.9 | 1.8 | 233 | 1.2 | 1.2 |
| 2 | 1.2 | 1.6 | 1.4 | 1.4 | 15 | 2.5 | 998 | 2.0 | 1.6 | 400 | 1.2 | 0.77 |
| 3 | 1.1 | 0.95 | 1.1 | 1.4 | 555 | 2.4 | 1230 | 3.8 | 1.6 | 23 | 1.1 | 0.61 |
| 4 | 1.2 | 1.1 | 0.95 | 1.8 | 674 | 2.3 | 293 | 3.7 | 1.6 | 6.3 | 1.1 | 0.61 |
| 5 | 1.2 | 1.3 | 1.6 | 2.8 | 1950 | 3.0 | 1050 | 1760 | 1.6 | 3.5 | 1.2 | 0.72 |
| 6 | 1.6 | 1.3 | 1.6 | 1.5 | 1810 | 3.6 | 875 | 1420 | 1.6 | 2.6 | 1.2 | 0.78 |
| 7 | 1.6 | 1.3 | 1.7 | 1.3 | 950 | 3.8 | 1290 | 7.3 | 1.5 | 2.1 | 1.3 | 0.79 |
| 8 | 1.4 | 1.3 | 1.3 | 2.1 | 947 | 3.0 | 5010 | 4.0 | 1.2 | 1.8 | 1.3 | 1.5 |
| 9 | 1.3 | 2.2 | 0.92 | 2.3 | 784 | 3.8 | 2050 | 3.3 | 1.2 | 1.8 | 1.5 | 1.6 |
| 10 | 1.3 | 2.7 | 1.2 | 4.4 | 209 | 1.8 | 61 | 17 | 1.4 | 1.7 | 74 | 1.1 |
| 11 | 36 | 2.3 | 1.3 | 1.3 | 484 | 1.8 | 7.9 | 683 | 1.3 | 4.6 | 20 | 1.2 |
| 12 | 12 | 1.9 | 3.2 | 347 | 5.5 | 1.9 | 801 | 615 | 1.1 | 518 | 4.5 | 1.1 |
| 13 | 86 | 1.7 | 4.0 | 6.4 | 3.9 | 1.9 | 362 | 899 | 1.8 | 31 | 2.6 | 1.1 |
| 14 | 9.5 | 1.5 | 5.5 | 2.4 | 4.0 | 4.9 | 168 | 195 | 6.8 | 9.2 | 2.0 | 1.1 |
| 15 | 5.4 | 1.7 | 223 | 1.1 | 4.0 | 2.8 | 694 | 710 | 2.5 | 165 | 1.9 | 1.1 |
| 16 | 3.1 | 2.2 | 2590 | 2.2 | 3.1 | 1.6 | 270 | 707 | 9.6 | 261 | 1.5 | 1.3 |
| 17 | 2.6 | 1.8 | 891 | 1.4 | 2.8 | 1.6 | 282 | 713 | 4.0 | 4.7 | 1.8 | 1.3 |
| 18 | 3.3 | 1.8 | 14 | 1.2 | 2.6 | 2.3 | 662 | 217 | 1.8 | 3.4 | 1.6 | 1.3 |
| 19 | 3.1 | 1.9 | 7.4 | 1.3 | 3.2 | 1530 | 687 | 4.3 | 1.2 | 2.6 | 1.3 | 2.5 |
| 20 | 1.9 | 2.1 | 5.0 | 2.5 | 2.6 | 5410 | 384 | 2.9 | 1.0 | 2.0 | 0.87 | 1.6 |
| 21 | 1.7 | 2.1 | 642 | 2.0 | 2.0 | 3060 | 3.7 | 2.3 | 1.1 | 1.8 | 0.81 | 1.0 |
| 22 | 2.4 | 2.0 | 126 | 1.1 | 2.1 | 470 | 2.3 | 2.2 | 0.94 | 1.8 | 0.96 | 0.90 |
| 23 | 3.9 | 3.7 | 452 | 1.8 | 2.4 | 614 | 355 | 2.6 | 0.96 | 1.5 | 0.93 | 1.3 |
| 24 | 5.3 | 4.8 | 138 | 313 | 7.1 | 1200 | 320 | 2.0 | 0.93 | 1.3 | 0.88 | 1.2 |
| 25 | 1.0 | 1.7 | 139 | 266 | 3.9 | 602 | 2.5 | 1.5 | 1.1 | 1.2 | 0.81 | 0.85 |
| 26 | 1.2 | 2.1 | 692 | 6.8 | 2.1 | 102 | 13 | 1.4 | 1.3 | 1.5 | 1.0 | 0.61 |
| 27 | 1.4 | 1.2 | 4.5 | 3.3 | 2.3 | 612 | 6.7 | 1.4 | 5.2 | 1.5 | 1.4 | 0.56 |
| 28 | 1.2 | 3.3 | 2.0 | 3.5 | 2.1 | 4.8 | 3.8 | 1.9 | 106 | 1.9 | 1.5 | 0.35 |
| 29 | 1.2 | 3.6 | 1.6 | 2.8 | --- | 535 | 2.2 | 20 | 83 | 2.1 | 1.3 | 0.32 |
| 30 | 1.3 | 2.7 | 1.6 | 2.8 | --- | 3500 | 2.1 | 5.4 | 98 | 1.5 | 1.2 | 0.26 |
| 31 | 1.6 | --- | 1.6 | 5090 | --- | 956 | --- | 2.4 | --- | 1.2 | 1.0 | --- |
| TOTAL | 198.3 | 64.25 | 5958.27 | 6080.3 | 9893.7 | 18643.0 | 18044.2 | 8013.3 | 344.73 | 1694.6 | 134.96 | 30.63 |
| MEAN | 6.397 | 2.142 | 192.2 | 196.1 | 353.3 | 601.4 | 601.5 | 258.5 | 11.49 | 54.66 | 4.354 | 1.021 |
| MAX | 86 | 4.8 | 2590 | 5090 | 1950 | 5410 | 5010 | 1760 | 106 | 518 | 74 | 2.5 |
| MIN | 1.0 | 0.95 | 0.92 | 1.1 | 2.0 | 1.6 | 2.1 | 1.4 | 0.93 | 1.2 | 0.81 | 0.26 |
| AC-FT | 393 | 127 | 11820 | 12060 | 19620 | 36980 | 35790 | 15890 | 684 | 3360 | 268 | 61 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 67.75 | 66.99 | 105.7 | 103.3 | 171.3 | 233.2 | 217.1 | 285.5 | 145.8 | 32.98 | 9.008 | 23.00 |
| MAX | 785 | 1286 | 1102 | 1483 | 976 | 1104 | 1170 | 1941 | 1028 | 511 | 88.6 | 214 |
| (WY) | 1974 | 1992 | 1972 | 1992 | 2001 | 1977 | 1966 | 1969 | 1990 | 1989 | 1962 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1961 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 80611.96 | | 69100.24 | | | |
| ANNUAL MEAN | 220.9 | | 189.3 | | 121.5 | |
| HIGHEST ANNUAL MEAN | | | | | 506 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 4.39 | 1988 |
| HIGHEST DAILY MEAN | 8570 | Feb 16 | 5410 | Mar 20 | 24700 | May 7 1969 |
| LOWEST DAILY MEAN | 0.15 | May 25 | 0.26 | Sep 30 | 0.00 | Jan 25 1964 |
| ANNUAL SEVEN-DAY MINIMUM | 0.49 | Jul 17 | 0.59 | Sep 24 | 0.02 | Dec 23 1983 |
| MAXIMUM PEAK FLOW | | | 8430 | Jan 31 | 38100 | Apr 19 1976 |
| MAXIMUM PEAK STAGE | | | 19.93 | Jan 31 | 25.12 | Dec 20 1991 |
| ANNUAL RUNOFF (AC-FT) | 159900 | | 137100 | | 88040 | |
| 10 PERCENT EXCEEDS | 840 | | 626 | | 127 | |
| 50 PERCENT EXCEEDS | 2.0 | | 2.2 | | 1.3 | |
| 90 PERCENT EXCEEDS | 0.58 | | 1.1 | | 0.34 | |

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 $mi^2$.

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 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

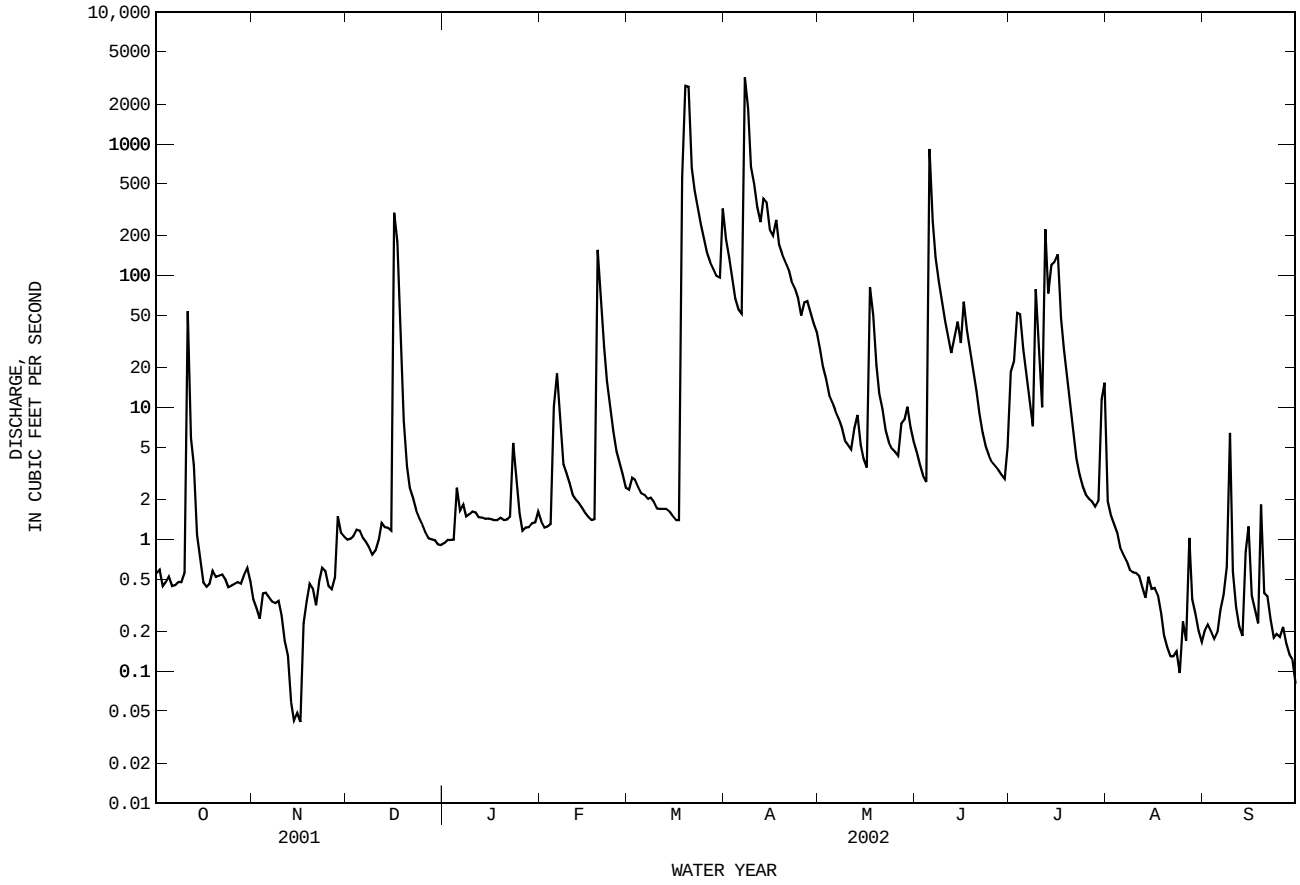
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.55 | 0.35 | 0.99 | 0.94 | 1.4 | 2.4 | 189 | 27 | 4.5 | 19 | 1.9 | 0.20 |
| 2 | 0.59 | 0.30 | 1.0 | 0.99 | 1.2 | 2.9 | 137 | 20 | 3.7 | 22 | 1.5 | 0.23 |
| 3 | 0.44 | 0.25 | 1.1 | 0.99 | 1.3 | 2.8 | 93 | 16 | 3.0 | 52 | 1.3 | 0.20 |
| 4 | 0.47 | 0.39 | 1.2 | 0.99 | 1.3 | 2.5 | 67 | 12 | 2.7 | 51 | 1.1 | 0.18 |
| 5 | 0.52 | 0.39 | 1.2 | 2.5 | 10 | 2.2 | 55 | 11 | 914 | 28 | 0.87 | 0.20 |
| 6 | 0.44 | 0.36 | 1.0 | 1.6 | 18 | 2.2 | 51 | 9.4 | 259 | 17 | 0.77 | 0.29 |
| 7 | 0.45 | 0.34 | 0.96 | 1.8 | 8.1 | 2.0 | 3190 | 8.3 | 137 | 11 | 0.69 | 0.38 |
| 8 | 0.48 | 0.33 | 0.87 | 1.5 | 3.7 | 2.1 | 1870 | 7.0 | 90 | 7.2 | 0.59 | 0.62 |
| 9 | 0.47 | 0.34 | 0.77 | 1.5 | 3.2 | 1.9 | 669 | 5.6 | 64 | 79 | 0.56 | 6.4 |
| 10 | 0.56 | 0.27 | 0.82 | 1.6 | 2.7 | 1.7 | 497 | 5.2 | 45 | 25 | 0.56 | 0.57 |
| 11 | 54 | 0.17 | 1.00 | 1.6 | 2.2 | 1.7 | 328 | 4.8 | 35 | 10 | 0.53 | 0.31 |
| 12 | 5.9 | 0.13 | 1.3 | 1.5 | 2.0 | 1.7 | 256 | 6.9 | 26 | 224 | 0.43 | 0.22 |
| 13 | 3.7 | 0.06 | 1.2 | 1.5 | 1.9 | 1.7 | 383 | 8.7 | 34 | 73 | 0.36 | 0.19 |
| 14 | 1.1 | 0.04 | 1.2 | 1.4 | 1.7 | 1.6 | 359 | 5.2 | 45 | 121 | 0.52 | 0.80 |
| 15 | 0.72 | 0.05 | 1.2 | 1.4 | 1.6 | 1.5 | 224 | 4.1 | 31 | 128 | 0.42 | 1.2 |
| 16 | 0.47 | 0.04 | 299 | 1.4 | 1.5 | 1.4 | 201 | 3.5 | 63 | 145 | 0.43 | 0.37 |
| 17 | 0.44 | 0.23 | 182 | 1.4 | 1.4 | 1.4 | 265 | 82 | 38 | 48 | 0.38 | 0.29 |
| 18 | 0.46 | 0.34 | 33 | 1.4 | 1.4 | 557 | 171 | 50 | 28 | 28 | 0.27 | 0.23 |
| 19 | 0.58 | 0.46 | 7.9 | 1.5 | 156 | 2760 | 145 | 21 | 19 | 17 | 0.19 | 1.8 |
| 20 | 0.52 | 0.42 | 3.6 | 1.4 | 74 | 2720 | 128 | 13 | 13 | 11 | 0.15 | 0.39 |
| 21 | 0.53 | 0.32 | 2.5 | 1.4 | 29 | 658 | 112 | 9.7 | 9.0 | 6.7 | 0.13 | 0.37 |
| 22 | 0.54 | 0.48 | 2.1 | 1.5 | 16 | 444 | 90 | 6.7 | 6.4 | 4.1 | 0.13 | 0.25 |
| 23 | 0.50 | 0.61 | 1.7 | 5.4 | 10 | 324 | 81 | 5.4 | 5.0 | 3.1 | 0.14 | 0.18 |
| 24 | 0.43 | 0.57 | 1.4 | 2.8 | 6.6 | 241 | 68 | 4.9 | 4.3 | 2.5 | 0.10 | 0.19 |
| 25 | 0.45 | 0.44 | 1.3 | 1.6 | 4.6 | 189 | 50 | 4.6 | 3.8 | 2.2 | 0.24 | 0.18 |
| 26 | 0.46 | 0.42 | 1.1 | 1.2 | 3.8 | 148 | 63 | 4.3 | 3.6 | 2.0 | 0.17 | 0.22 |
| 27 | 0.47 | 0.51 | 1.0 | 1.2 | 3.1 | 126 | 64 | 7.5 | 3.4 | 1.9 | 1.0 | 0.16 |
| 28 | 0.46 | 1.5 | 1.0 | 1.2 | 2.5 | 112 | 53 | 8.1 | 3.1 | 1.8 | 0.35 | 0.13 |
| 29 | 0.53 | 1.1 | 0.98 | 1.3 | --- | 99 | 43 | 10 | 2.9 | 2.0 | 0.27 | 0.12 |
| 30 | 0.60 | 1.0 | 0.92 | 1.3 | --- | 96 | 37 | 7.0 | 5.0 | 12 | 0.20 | 0.08 |
| 31 | 0.48 | --- | 0.91 | 1.6 | --- | 323 | --- | 5.4 | --- | 15 | 0.17 | --- |
| TOTAL | 78.31 | 12.21 | 556.22 | 49.41 | 370.2 | 8830.7 | 9939 | 394.3 | 1901.4 | 1169.5 | 16.42 | 16.95 |
| MEAN | 2.526 | 0.407 | 17.94 | 1.594 | 13.22 | 284.9 | 331.3 | 12.72 | 63.38 | 37.73 | 0.530 | 0.565 |
| MAX | 54 | 1.5 | 299 | 5.4 | 156 | 2760 | 3190 | 82 | 914 | 224 | 1.9 | 6.4 |
| MIN | 0.43 | 0.04 | 0.77 | 0.94 | 1.2 | 1.4 | 37 | 3.5 | 2.7 | 1.8 | 0.10 | 0.08 |
| AC-FT | 155 | 24 | 1100 | 98 | 734 | 17520 | 19710 | 782 | 3770 | 2320 | 33 | 34 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 52.15 | 78.09 | 130.3 | 85.95 | 177.2 | 191.1 | 157.6 | 271.8 | 129.6 | 16.76 | 3.618 | 29.70 |
| MAX | 310 | 372 | 743 | 316 | 828 | 565 | 1063 | 1359 | 659 | 91.1 | 13.2 | 123 |
| (WY) | 1994 | 2001 | 1992 | 1992 | 2001 | 1990 | 1990 | 1990 | 1989 | 1987 | 1996 | 1996 |
| MIN | 0.098 | 0.28 | 2.25 | 0.46 | 0.52 | 6.54 | 2.76 | 0.73 | 2.61 | 0.61 | 0.000 | 0.031 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 1986 | 2000 | 2000 | 1996 | 1998 | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1986 - 2002 | | |
|---|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 47454.13 | | 23334.62 | | | | |
| ANNUAL MEAN | 130.0 | | 63.93 | | 109.9 | | |
| HIGHEST ANNUAL MEAN | | | | | 277 | | 1990 |
| LOWEST ANNUAL MEAN | | | | | 3.12 | | 2000 |
| HIGHEST DAILY MEAN | 4450 | Feb 16 | 3190 | Apr 7 | 12500 | May 2 | 1990 |
| LOWEST DAILY MEAN | 0.04 | Nov 14 | 0.04 | Nov 14 | 0.00 | Aug 2 | 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 0.10 | Nov 11 | 0.10 | Nov 11 | 0.00 | Aug 2 | 1988 |
| MAXIMUM PEAK FLOW | | | 9130 | Mar 20 | 24000 | May 16 | 1989 |
| MAXIMUM PEAK STAGE | | | 17.57 | Mar 20 | 25.33 | May 16 | 1989 |
| ANNUAL RUNOFF (AC-FT) | 94130 | | 46280 | | 79650 | | |
| 10 PERCENT EXCEEDS | 266 | | 123 | | 215 | | |
| 50 PERCENT EXCEEDS | 3.9 | | 1.7 | | 8.9 | | |
| 90 PERCENT EXCEEDS | 0.44 | | 0.27 | | 0.60 | | |

08050400 Elm Fork Trinity River at Gainesville, TX--Continued



## 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 $mi^2$.

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 poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

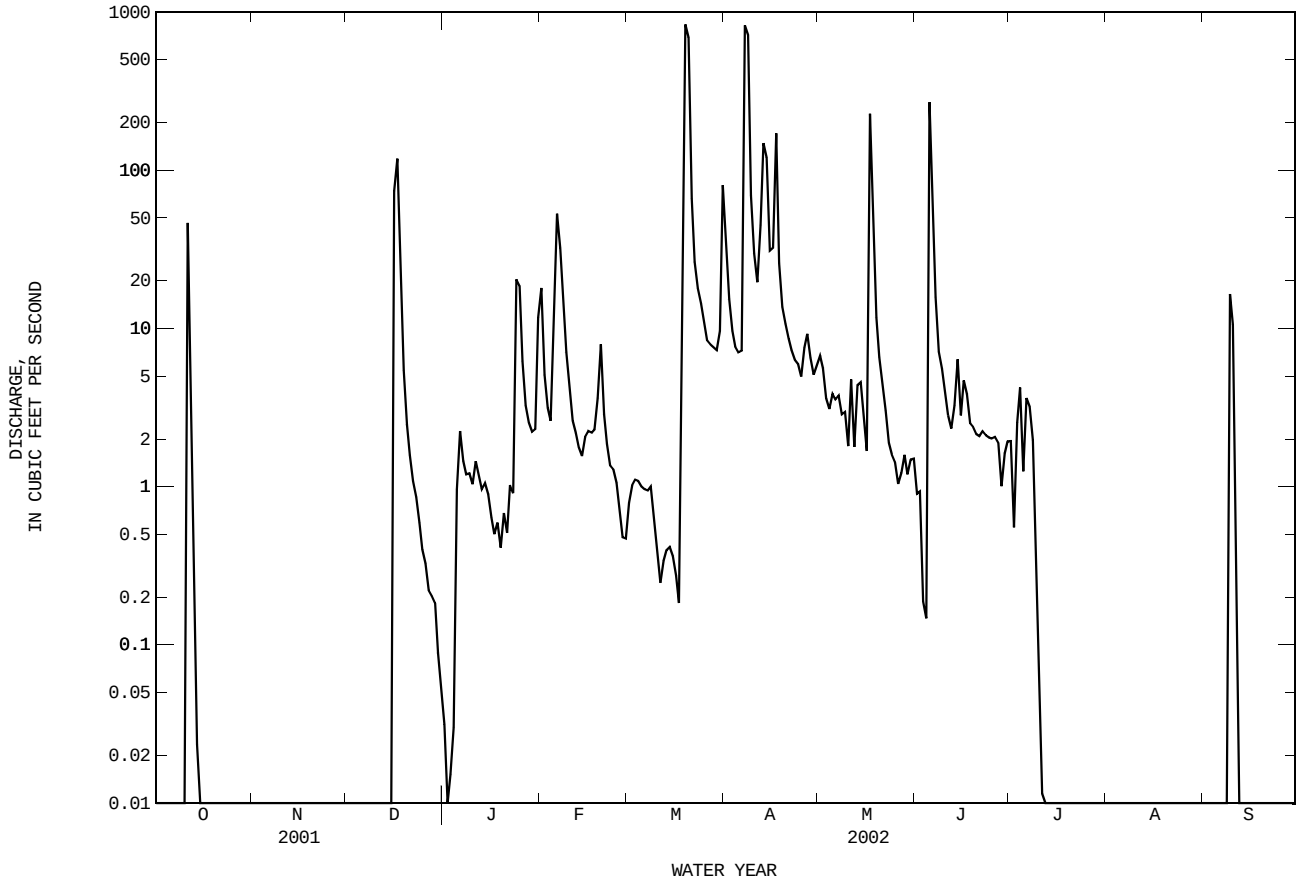
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.03 | 18 | 0.79 | 31 | 6.7 | 0.90 | 1.9 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.0 | 5.1 | 1.0 | 15 | 5.6 | 0.93 | 0.55 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.02 | 3.1 | 1.1 | 9.6 | 3.6 | 0.19 | 2.5 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.03 | 2.6 | 1.1 | 7.7 | 3.1 | 0.15 | 4.2 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.96 | 15 | 1.0 | 7.1 | 3.9 | 269 | 1.2 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 2.2 | 53 | 0.96 | 7.2 | 3.6 | 70 | 3.6 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 1.4 | 32 | 0.94 | 821 | 3.8 | 16 | 3.2 | 0.00 | 0.00 |
| 8 | 0.00 | 0.00 | 0.0 | 1.2 | 13 | 1.00 | 715 | 2.9 | 7.1 | 2.0 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 1.2 | 7.1 | 0.64 | 69 | 3.0 | 5.6 | 0.53 | 0.00 | 17 |
| 10 | 0.00 | 0.00 | 0.00 | 1.0 | 4.3 | 0.38 | 30 | 1.8 | 3.8 | 0.12 | 0.00 | 11 |
| 11 | 46 | 0.00 | 0.00 | 1.4 | 2.6 | 0.25 | 20 | 4.8 | 2.8 | 0.01 | 0.00 | 0.44 |
| 12 | 6.8 | 0.00 | 0.00 | 1.2 | 2.2 | 0.34 | 45 | 1.8 | 2.3 | 0.00 | 0.00 | 0.00 |
| 13 | 1.4 | 0.00 | 0.00 | 0.96 | 1.8 | 0.40 | 148 | 4.4 | 3.3 | 0.00 | 0.00 | 0.00 |
| 14 | 0.02 | 0.00 | 0.00 | 1.0 | 1.6 | 0.41 | 120 | 4.6 | 6.4 | 0.00 | 0.00 | 0.00 |
| 15 | 0.00 | 0.00 | 0.00 | 0.89 | 2.1 | 0.36 | 31 | 2.8 | 2.8 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 74 | 0.64 | 2.2 | 0.27 | 32 | 1.7 | 4.7 | 0.00 | 0.00 | 0.00 |
| 17 | 0.00 | 0.00 | 118 | 0.50 | 2.2 | 0.18 | 171 | 227 | 3.8 | 0.00 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 18 | 0.59 | 2.3 | 56 | 26 | 58 | 2.5 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 5.4 | 0.41 | 3.6 | 832 | 14 | 12 | 2.4 | 0.00 | 0.00 | 0.00 |
| 20 | 0.00 | 0.00 | 2.5 | 0.68 | 7.9 | 687 | 11 | 6.6 | 2.1 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 1.6 | 0.51 | 2.9 | 66 | 8.6 | 4.5 | 2.1 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 1.1 | 1.0 | 1.9 | 26 | 7.3 | 3.0 | 2.2 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.86 | 0.91 | 1.4 | 18 | 6.3 | 1.9 | 2.1 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.59 | 20 | 1.3 | 14 | 6.0 | 1.6 | 2.0 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.40 | 19 | 1.1 | 11 | 4.9 | 1.4 | 2.0 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.33 | 6.2 | 0.68 | 8.4 | 7.6 | 1.0 | 2.1 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.22 | 3.3 | 0.48 | 7.9 | 9.3 | 1.2 | 1.9 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.20 | 2.5 | 0.47 | 7.6 | 6.5 | 1.6 | 1.0 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.00 | 0.18 | 2.2 | --- | 7.3 | 5.1 | 1.2 | 1.6 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.09 | 2.3 | --- | 9.6 | 5.8 | 1.5 | 1.9 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.05 | 12 | --- | 80 | --- | 1.5 | --- | 0.00 | 0.00 | --- |
| TOTAL | 54.22 | 0.00 | 223.52 | 86.23 | 191.93 | 1841.92 | 2398.0 | 382.1 | 425.67 | 19.81 | 0.00 | 28.44 |
| MEAN | 1.749 | 0.000 | 7.210 | 2.782 | 6.855 | 59.42 | 79.93 | 12.33 | 14.19 | 0.639 | 0.000 | 0.948 |
| MAX | 46 | 0.00 | 118 | 20 | 53 | 832 | 821 | 227 | 269 | 4.2 | 0.00 | 17 |
| MIN | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 0.18 | 4.9 | 1.0 | 0.15 | 0.00 | 0.00 | 0.00 |
| AC-FT | 108 | 0.00 | 443 | 171 | 381 | 3650 | 4760 | 758 | 844 | 39 | 0.00 | 56 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 20.79 | 15.66 | 37.83 | 18.74 | 33.70 | 38.46 | 42.54 | 53.88 | 27.62 | 20.83 | 0.964 | 5.766 |
| 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 | 0.000 | 0.000 | 0.000 | 0.10 | 0.000 | 0.67 | 0.000 | 0.059 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1988 | 1990 | 1999 | 2000 | 1999 | 1999 | 1999 | 1996 | 1996 | 1988 | 1986 | 1995 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1986 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 7318.65 | | 5651.84 | | | |
| ANNUAL MEAN | 20.05 | | 15.48 | | 26.38 | |
| HIGHEST ANNUAL MEAN | | | | | 72.7 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 1.77 | 1999 |
| HIGHEST DAILY MEAN | 937 | Feb 24 | 832 | Mar 19 | 5410 | Jul 11 1994 |
| LOWEST DAILY MEAN | 0.00 | Apr 18 | 0.00 | Oct 1 | 0.00 | Oct 1 1985 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | May 12 | 0.00 | Oct 1 | 0.00 | Oct 1 1985 |
| MAXIMUM PEAK FLOW | | | 3260 | Apr 7 | 13300 | Jul 10 1994 |
| MAXIMUM PEAK STAGE | | | 13.44 | Apr 7 | 14.94 | Jul 10 1994 |
| ANNUAL RUNOFF (AC-FT) | 14520 | | 11210 | | 19110 | |
| 10 PERCENT EXCEEDS | 34 | | 15 | | 26 | |
| 50 PERCENT EXCEEDS | 0.00 | | 0.59 | | 1.2 | |
| 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 $mi^2$.

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.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. No flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 5.1 | e25 | 1.5 | 27 | 0.47 | 0.02 | 0.00 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | e5.4 | e9.3 | e1.6 | 8.6 | 0.40 | 0.01 | 0.00 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | e5.1 | 6.0 | e1.8 | 4.4 | 0.35 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | e4.9 | 4.5 | e1.9 | 2.7 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 5.9 | 9.5 | e1.7 | 2.1 | 0.25 | 1.3 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 7.4 | e51 | 1.8 | 1.9 | 0.26 | 3.6 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | e8.4 | e39 | 1.7 | 397 | 0.27 | 0.99 | 0.00 | 0.00 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 8.3 | e20 | 1.5 | 644 | 0.25 | 0.47 | 0.00 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 7.2 | 12 | e1.5 | 25 | 0.27 | 0.34 | 0.00 | 0.00 | 0.00 |
| 10 | 0.00 | 0.00 | 0.00 | 6.7 | e8.2 | e1.3 | 8.5 | 0.25 | 0.21 | 0.00 | 0.00 | 0.00 |
| 11 | 166 | 0.00 | 0.00 | 6.3 | e4.8 | 1.4 | 4.7 | 0.26 | 0.15 | 0.00 | 0.00 | 0.00 |
| 12 | 23 | 0.00 | 0.00 | e5.9 | e4.2 | 1.2 | 3.2 | 0.23 | 0.08 | 0.00 | 0.00 | 0.00 |
| 13 | 320 | 0.00 | 0.00 | e6.2 | e3.8 | 1.2 | 37 | 0.21 | 0.02 | 16 | 0.00 | 0.00 |
| 14 | 2.0 | 0.00 | 0.00 | e5.9 | e3.5 | 1.2 | 68 | 0.15 | 0.41 | 2.1 | 0.00 | 0.00 |
| 15 | 0.06 | 0.00 | 0.00 | e6.1 | e3.1 | 1.2 | 10 | 0.07 | 0.53 | 0.47 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 123 | 6.0 | e3.1 | 1.2 | 15 | 0.01 | 0.70 | 14 | 0.00 | 0.00 |
| 17 | 0.00 | 0.00 | 156 | 5.6 | e2.9 | 1.1 | 693 | 227 | 1.4 | 197 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 23 | 5.3 | 2.8 | 116 | 22 | 28 | 0.45 | 30 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 12 | e5.3 | 192 | 1400 | 7.4 | 3.6 | 0.27 | 3.5 | 0.00 | 0.00 |
| 20 | 0.00 | 0.00 | 8.7 | e4.0 | e32 | e1260 | 4.0 | 1.3 | 0.12 | 0.85 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 6.9 | e3.7 | 8.4 | e23 | 2.7 | 0.57 | 0.07 | 0.34 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 6.3 | 3.3 | e4.5 | e8.3 | 1.7 | 0.48 | 0.0 | 0.14 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 6.0 | 3.4 | e3.4 | e6.1 | 1.1 | 0.39 | 0.00 | 0.07 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 5.8 | e22 | 2.9 | 4.6 | 0.83 | 0.25 | 0.00 | 0.03 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 5.8 | e24 | e2.4 | 3.5 | 0.66 | 0.17 | 0.00 | 0.02 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 5.4 | e13 | e1.9 | e2.5 | 0.55 | 0.13 | 0.00 | 0.0 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 5.6 | e9.8 | e1.7 | e2.0 | 0.97 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 5.2 | 8.6 | e1.5 | 1.8 | 0.95 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.00 | 5.5 | 8.1 | --- | 1.7 | 0.70 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 5.5 | 8.5 | --- | 15 | 0.56 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 5.1 | e369 | --- | 574 | --- | 0.02 | --- | 0.00 | 0.00 | --- |
| TOTAL | 511.06 | 0.00 | 385.80 | 594.4 | 463.4 | 3443.3 | 1996.22 | 266.41 | 11.14 | 264.52 | 0.00 | 0.00 |
| MEAN | 16.49 | 0.000 | 12.45 | 19.17 | 16.55 | 111.1 | 66.54 | 8.594 | 0.371 | 8.533 | 0.000 | 0.000 |
| MAX | 320 | 0.00 | 156 | 369 | 192 | 1400 | 693 | 227 | 3.6 | 197 | 0.00 | 0.00 |
| MIN | 0.00 | 0.00 | 0.00 | 3.3 | 1.5 | 1.1 | 0.55 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| AC-FT | 1010 | 0.00 | 765 | 1180 | 919 | 6830 | 3960 | 528 | 22 | 525 | 0.00 | 0.00 |

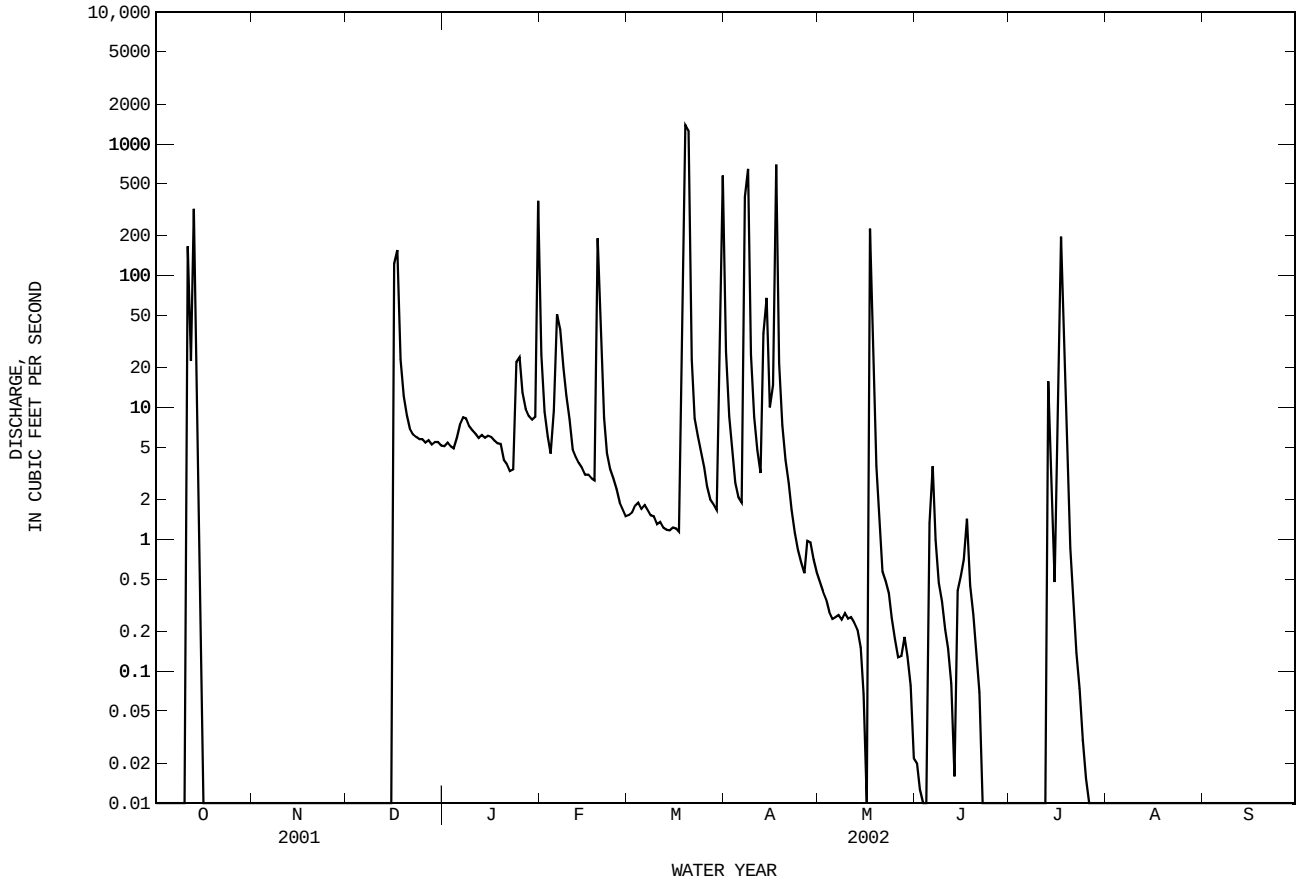
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 17.30 | 39.23 | 23.47 | 18.01 | 33.10 | 41.87 | 25.78 | 20.90 | 5.626 | 4.534 | 0.615 | 1.927 |
| MAX | 107 | 204 | 66.0 | 108 | 118 | 111 | 66.5 | 86.5 | 28.3 | 36.7 | 4.72 | 9.54 |
| (WY) | 1994 | 1997 | 1998 | 1998 | 2001 | 2002 | 2002 | 1995 | 1993 | 1994 | 1994 | 1994 |
| MIN | 0.000 | 0.000 | 0.40 | 0.000 | 0.000 | 1.25 | 0.15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1993 | 1996 | 2000 | 2000 | 1996 | 1999 | 1998 | 1996 | 1996 | 1993 | 1993 | 1997 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1993 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 7811.41 | | 7936.25 | | | |
| ANNUAL MEAN | 21.40 | | 21.74 | | 19.27 | |
| HIGHEST ANNUAL MEAN | | | | | 38.3 | 1997 |
| LOWEST ANNUAL MEAN | | | | | 1.88 | 1996 |
| HIGHEST DAILY MEAN | 1180 | Feb 16 | 1400 | Mar 19 | 2580 | Oct 19 1993 |
| LOWEST DAILY MEAN | 0.00 | May 23 | 0.00 | Oct 1 | 0.00 | Oct 1 1992 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jun 8 | 0.00 | Oct 1 | 0.00 | Oct 1 1992 |
| MAXIMUM PEAK FLOW | | | 3350 | Mar 20 | 7640 | Oct 19 1993 |
| MAXIMUM PEAK STAGE | | | 20.63 | Mar 20 | 23.32 | Oct 19 1993 |
| ANNUAL RUNOFF (AC-FT) | 15490 | | 15740 | | 13960 | |
| 10 PERCENT EXCEEDS | 16 | | 13 | | 10 | |
| 50 PERCENT EXCEEDS | 0.00 | | 0.18 | | 0.03 | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | | 0.00 | |

e Estimated

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 $mi^2$.

PERIOD OF RECORD.--July 1987 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 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.--No estimated daily contents. 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. Conservation pool storage is 799,750 acre-ft. 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 |
| Top of conservation pool | 632.5 |
| Invert, lowest gated outlet | 551.0 |

COOPERATION.--Capacity tables provided by the U.S. Army Corps of Engineers.

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 contents, 890,800 acre-ft, Apr. 10, elevation, 635.46 ft; minimum contents, 747,000 acre-ft, Dec. 11, 14, elevation, 630.65 ft.

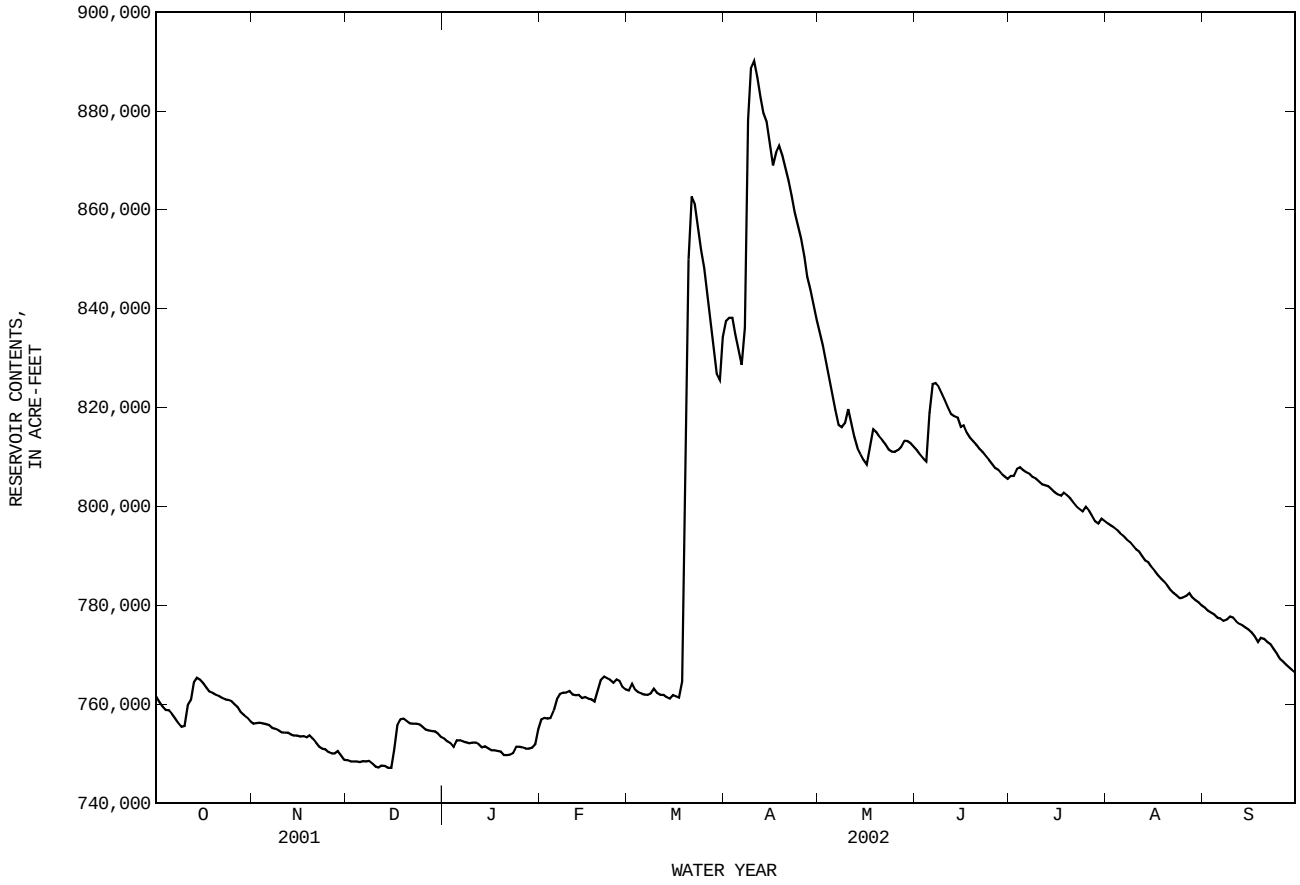
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 761500 | 756000 | 748700 | 753000 | 756900 | 762700 | 837500 | 834900 | 811300 | 806200 | 796600 | 779500 |
| 2 | 760400 | 756200 | 748400 | 752400 | 757200 | 764100 | 838200 | 832400 | 810500 | 806200 | 796100 | 778900 |
| 3 | 759500 | 756300 | 748400 | 752100 | 757100 | 763000 | 838100 | 829200 | 809700 | 807600 | 795700 | 778500 |
| 4 | 758800 | 756100 | 748400 | 751300 | 757200 | 762400 | 834900 | 826100 | 809000 | 807900 | 795200 | 778100 |
| 5 | 758800 | 756000 | 748300 | 752600 | 758700 | 762100 | 831600 | 822700 | 818900 | 807300 | 794600 | 777500 |
| 6 | 758000 | 755800 | 748400 | 752700 | 761000 | 762000 | 828600 | 819400 | 824700 | 806900 | 794000 | 777300 |
| 7 | 757100 | 755200 | 748400 | 752400 | 762100 | 761900 | 836100 | 816400 | 824900 | 806600 | 793300 | 776800 |
| 8 | 756100 | 755000 | 748500 | 752300 | 762300 | 762100 | 878200 | 816000 | 824200 | 805900 | 792800 | 777100 |
| 9 | 755400 | 754700 | 748000 | 752100 | 762300 | 763100 | 888600 | 816900 | 822800 | 805600 | 792000 | 777700 |
| 10 | 755600 | 754300 | 747400 | 752200 | 762600 | 762300 | 890100 | 819600 | 821400 | 805100 | 791300 | 777500 |
| 11 | 759800 | 754200 | 747200 | 752200 | 761900 | 761900 | 886800 | 817100 | 820000 | 804500 | 790900 | 776800 |
| 12 | 760800 | 754200 | 747500 | 751900 | 761800 | 761900 | 882700 | 814100 | 818700 | 804300 | 789900 | 776200 |
| 13 | 764400 | 753900 | 747500 | 751300 | 761800 | 761400 | 879500 | 811800 | 818200 | 804100 | 789000 | 775900 |
| 14 | 765300 | 753600 | 747100 | 751400 | 761200 | 761100 | 877800 | 810500 | 817900 | 803500 | 788700 | 775400 |
| 15 | 764900 | 753600 | 747100 | 751100 | 761400 | 761800 | 873400 | 809400 | 816000 | 802900 | 787700 | 775100 |
| 16 | 764200 | 753400 | 750800 | 750600 | 761100 | 761600 | 869000 | 808500 | 816400 | 802400 | 786900 | 774500 |
| 17 | 763300 | 753500 | 755700 | 750700 | 760900 | 761300 | 871600 | 812200 | 814900 | 802100 | 786100 | 773700 |
| 18 | 762500 | 753200 | 756900 | 750500 | 760500 | 764600 | 872900 | 815600 | 813900 | 802800 | 785300 | 772600 |
| 19 | 762300 | 753700 | 757000 | 750400 | 762700 | 798200 | 871000 | 815000 | 813100 | 802300 | 784800 | 773400 |
| 20 | 761800 | 753000 | 756600 | 749700 | 764900 | 849900 | 868300 | 814100 | 812400 | 801600 | 784000 | 773200 |
| 21 | 761600 | 752200 | 756100 | 749700 | 765600 | 862700 | 865700 | 813400 | 811700 | 800700 | 783100 | 772500 |
| 22 | 761200 | 751400 | 756000 | 749800 | 765200 | 861300 | 862900 | 812500 | 811000 | 800000 | 782500 | 772100 |
| 23 | 760900 | 751000 | 756000 | 750100 | 764900 | 856800 | 859400 | 811500 | 810200 | 799500 | 782000 | 771100 |
| 24 | 760900 | 750900 | 755900 | 751400 | 764300 | 852000 | 856700 | 811100 | 809400 | 799000 | 781400 | 770300 |
| 25 | 760600 | 750300 | 755400 | 751400 | 765000 | 848200 | 854000 | 811000 | 808600 | 799900 | 781500 | 769200 |
| 26 | 759900 | 750000 | 754800 | 751200 | 764600 | 842700 | 850500 | 811400 | 807800 | 799100 | 781800 | 768600 |
| 27 | 759400 | 750000 | 754600 | 751000 | 763500 | 837100 | 846400 | 812000 | 807400 | 798200 | 782500 | 767900 |
| 28 | 758300 | 750500 | 754500 | 751000 | 762900 | 831700 | 843800 | 813300 | 806600 | 797000 | 781600 | 767400 |
| 29 | 757800 | 749600 | 754500 | 751200 | --- | 826900 | 840700 | 813200 | 806100 | 796500 | 781000 | 766800 |
| 30 | 757300 | 748700 | 754000 | 751900 | --- | 825600 | 837500 | 812800 | 805600 | 797500 | 780600 | 766300 |
| 31 | 756500 | --- | 753300 | 754800 | --- | 834300 | --- | 812000 | --- | 797100 | 780000 | --- |
| MEAN | 760200 | 753200 | 751700 | 751500 | 761800 | 795100 | 859100 | 816000 | 814100 | 802600 | 787500 | 773900 |
| MAX | 765300 | 756300 | 757000 | 754800 | 765600 | 862700 | 890100 | 834900 | 824900 | 807900 | 796600 | 779500 |
| MIN | 755400 | 748700 | 747100 | 749700 | 756900 | 761100 | 828600 | 808500 | 805600 | 796500 | 780000 | 766300 |
| (+) | 630.99 | 630.71 | 630.88 | 630.93 | 631.22 | 633.65 | 633.76 | 632.91 | 632.70 | 632.41 | 631.82 | 631.34 |
| (@) | -6900 | -7800 | +4600 | +1500 | +8100 | +71400 | +3200 | -25500 | -6400 | -8500 | -17100 | -13700 |

CAL YR 2001 MAX 868900 MIN 552200 (@) +201800
WTR YR 2002 MAX 890100 MIN 747100 (@) +2900

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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, at the downstream side near right end of bridge on county road, 1,350 ft downstream from Duck Creek, 1.1 mi upstream from Gulf, Colorado, and Santa Fe Railway Company bridge, and 1.8 mi south of Sanger.

DRAINAGE AREA.--295 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Mar. 1949 to current year.

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.--Records fair. Since 1980, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 51 floodwater-retarding structure. These structures control runoff from 149 $mi^2$ 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 $ft^3/s$ (53,830 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1950-80).--Maximum discharge, 18,200 $ft^3/s$, Sept. 13, 1950, gage height, 29.80 ft, at site and datum then in use; no flow at times most years.

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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | e0.13 | 2.7 | 5.6 | 5.7 | 8.0 | 7.8 | 718 | 50 | 21 | 16 | 8.3 | 0.17 |
| 2 | e0.13 | 3.3 | 5.2 | 5.7 | 7.3 | 8.9 | 300 | 40 | 19 | 39 | 6.7 | 0.15 |
| 3 | e0.12 | 3.6 | 5.1 | 5.3 | 7.2 | 9.1 | 140 | 35 | 18 | 51 | 5.2 | 0.12 |
| 4 | 0.12 | 3.6 | 5.1 | 4.7 | 7.4 | 8.5 | 87 | 31 | 16 | 50 | 4.3 | 0.11 |
| 5 | e0.11 | 3.7 | 5.9 | 9.2 | 15 | 8.3 | 66 | 31 | 1050 | 41 | 3.9 | 0.10 |
| 6 | e0.11 | 3.7 | 6.0 | 10 | 19 | 8.3 | 58 | 31 | 450 | 30 | 3.5 | 0.12 |
| 7 | e0.12 | 3.8 | 5.7 | 8.5 | 19 | 8.2 | 634 | 29 | 165 | 23 | 3.1 | 0.13 |
| 8 | e0.12 | 3.8 | 5.5 | 7.3 | 15 | 8.0 | 3780 | 30 | 81 | 19 | 2.9 | 0.24 |
| 9 | 0.16 | 3.7 | 5.3 | 7.1 | 12 | 7.8 | 1330 | 28 | 51 | 16 | 2.7 | 0.59 |
| 10 | 0.30 | 3.7 | 4.9 | 7.3 | 10 | 7.0 | 936 | 246 | 37 | 14 | 2.7 | 0.33 |
| 11 | e16 | 3.6 | 5.4 | 6.7 | 9.2 | 6.9 | 709 | 71 | 29 | 12 | 2.6 | 0.31 |
| 12 | e12 | 4.1 | 6.4 | 6.4 | 8.8 | 7.3 | 451 | 39 | 24 | 12 | 2.2 | 0.23 |
| 13 | e9.0 | 4.3 | 7.2 | 6.5 | 8.7 | 7.5 | 250 | 33 | 25 | 15 | 2.1 | 0.19 |
| 14 | e6.0 | 4.6 | 6.8 | 5.7 | 8.5 | 7.6 | 679 | 30 | 46 | 30 | 1.9 | 0.16 |
| 15 | 2.9 | 5.7 | 6.6 | 5.5 | 8.4 | 7.7 | 325 | 27 | 35 | 48 | 1.8 | 0.20 |
| 16 | 1.4 | 10 | e44 | 5.4 | 8.4 | 7.2 | 199 | 28 | 28 | 26 | 1.4 | 0.20 |
| 17 | 0.86 | 17 | e90 | 5.4 | 8.4 | 7.2 | 388 | 88 | 28 | 26 | 1.2 | 0.20 |
| 18 | 0.64 | 7.4 | 24 | 5.7 | 8.6 | 8.2 | 328 | 53 | 23 | 19 | 1.1 | 0.18 |
| 19 | 0.64 | 6.6 | 12 | 5.9 | 12 | 1760 | 175 | 35 | 19 | 16 | 0.92 | 0.30 |
| 20 | 0.69 | 5.5 | 8.9 | 6.3 | 42 | 3440 | 129 | 27 | 16 | 13 | 0.83 | 0.25 |
| 21 | 1.2 | 5.2 | 7.5 | 6.5 | 18 | 1330 | 105 | 24 | 15 | 12 | 0.65 | 0.20 |
| 22 | 1.2 | 5.0 | 7.1 | 6.9 | 12 | 926 | 85 | 22 | 14 | 11 | 0.52 | 0.18 |
| 23 | 1.5 | 4.8 | 6.6 | 7.3 | 10 | 739 | 72 | 21 | 13 | 9.2 | 0.42 | 0.16 |
| 24 | 1.7 | 4.5 | 6.1 | 13 | 9.6 | 468 | 66 | 21 | 12 | 10 | 0.30 | 0.15 |
| 25 | 1.9 | 4.2 | 6.0 | 9.7 | 8.9 | 305 | 56 | 21 | 11 | 13 | 0.26 | 0.15 |
| 26 | 1.7 | 4.4 | 6.1 | 8.4 | 7.6 | 164 | 49 | 33 | 11 | 7.1 | 0.36 | 0.15 |
| 27 | 1.5 | 3.8 | 6.2 | 7.6 | 6.9 | 81 | 49 | 32 | 11 | 6.5 | 1.6 | 0.15 |
| 28 | 1.4 | 4.6 | 6.4 | 7.3 | 7.1 | 58 | 51 | 36 | 10 | 5.6 | 0.80 | 0.13 |
| 29 | 1.7 | 5.8 | 6.3 | 7.4 | --- | 49 | 45 | 34 | 10 | 5.6 | 0.40 | 0.12 |
| 30 | 2.1 | 6.0 | 5.8 | 7.6 | --- | 53 | 52 | 28 | 11 | 14 | 0.30 | 0.12 |
| 31 | 2.5 | --- | 5.7 | 10 | --- | 1100 | --- | 24 | --- | 12 | 0.21 | --- |
| TOTAL | 69.95 | 152.7 | 335.4 | 222.0 | 323.0 | 10614.5 | 12312 | 1278 | 2299 | 622.0 | 65.17 | 5.79 |
| MEAN | 2.256 | 5.090 | 10.82 | 7.161 | 11.54 | 342.4 | 410.4 | 41.23 | 76.63 | 20.06 | 2.102 | 0.193 |
| MAX | 16 | 17 | 90 | 13 | 42 | 3440 | 3780 | 246 | 1050 | 51 | 8.3 | 0.59 |
| MIN | 0.11 | 2.7 | 4.9 | 4.7 | 6.9 | 6.9 | 45 | 21 | 10 | 5.6 | 0.21 | 0.10 |
| AC-FT | 139 | 303 | 665 | 440 | 641 | 21050 | 24420 | 2530 | 4560 | 1230 | 129 | 11 |

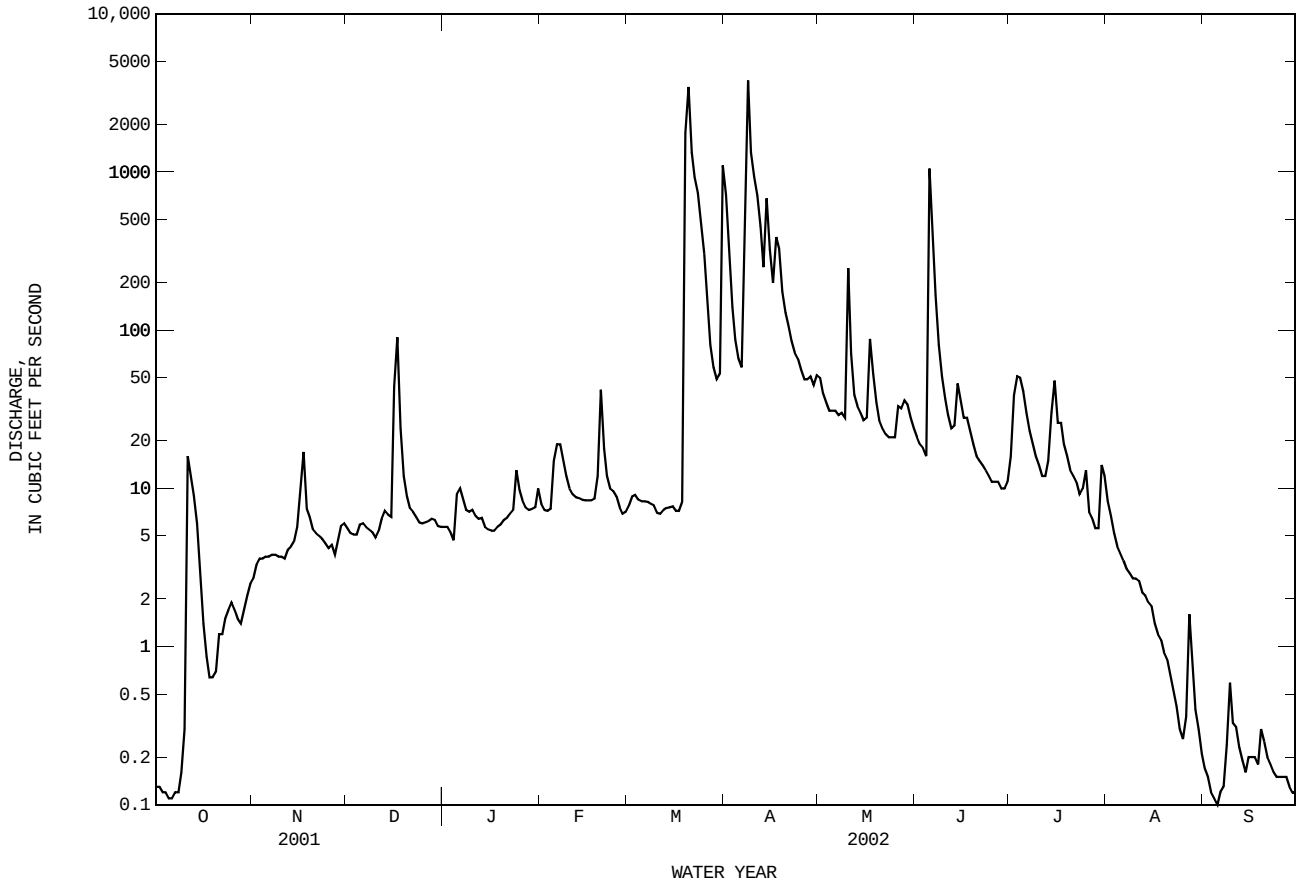
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 179.7 | 89.40 | 129.6 | 87.83 | 203.6 | 226.1 | 199.9 | 335.4 | 213.3 | 29.53 | 8.133 | 25.29 |
| MAX | 2739 | 526 | 1157 | 421 | 1112 | 719 | 1811 | 1764 | 1307 | 174 | 68.5 | 155 |
| (WY) | 1982 | 1995 | 1992 | 1992 | 2001 | 1990 | 1990 | 1990 | 1989 | 1982 | 1995 | 1986 |
| MIN | 0.000 | 0.000 | 0.30 | 0.022 | 1.64 | 14.8 | 10.1 | 4.60 | 0.11 | 0.002 | 0.000 | 0.000 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1988 | 1983 |

08051500 Clear Creek near Sanger, TX--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1981 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 67749.98 | | 28299.51 | | | |
| ANNUAL MEAN | 185.6 | | 77.53 | | 143.7 | |
| HIGHEST ANNUAL MEAN | | | | | 476 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 2.64 | 2000 |
| HIGHEST DAILY MEAN | 6460 | Feb 16 | 3780 | Apr 8 | 39700 | Oct 13 1981 |
| LOWEST DAILY MEAN | 0.11 | Aug 25 | 0.10 | Sep 5 | 0.00 | Oct 12 1980 |
| ANNUAL SEVEN-DAY MINIMUM | 0.12 | Oct 2 | 0.12 | Oct 2 | 0.00 | Aug 2 1981 |
| MAXIMUM PEAK FLOW | | | 6280 | Apr 8 | 104000 | Oct 13 1981 |
| MAXIMUM PEAK STAGE | | | 21.36 | Apr 8 | 35.70 | Oct 13 1981 |
| ANNUAL RUNOFF (AC-FT) | 134400 | | 56130 | | 104100 | |
| 10 PERCENT EXCEEDS | 355 | | 81 | | 254 | |
| 50 PERCENT EXCEEDS | 14 | | 7.6 | | 22 | |
| 90 PERCENT EXCEEDS | 0.45 | | 0.26 | | 0.01 | |

e Estimated
z Period of regulated streamflow.



08051500 Clear Creek near Sanger, TX--Continued
(National Water-Quality Assessment Program)

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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 06... | 1030 | 3.5 | 718 | 7.9 | 16.6 | 7.8 | 81 | 232 | 63.4 | 59.1 | -- | <.008 | E.03 |
| DEC | | | | | | | | | | | | | |
| 06... | 1015 | 6.0 | 700 | 8.1 | 15.1 | 8.2 | 82 | 244 | 64.7 | 41.4 | -- | <.008 | E.02 |
| JAN | | | | | | | | | | | | | |
| 08... | 1130 | 7.3 | 639 | 8.3 | 4.4 | 13.4 | 105 | 218 | 63.3 | 35.7 | -- | <.008 | .16 |
| FEB | | | | | | | | | | | | | |
| 14... | 1030 | 8.4 | 639 | 8.6 | 6.1 | 12.9 | 105 | 210 | -- | 36.2 | -- | <.008 | E.04 |
| MAR | | | | | | | | | | | | | |
| 14... | 1000 | 7.3 | 606 | 8.1 | 14.8 | 10.5 | 107 | 225 | 64.0 | 40.5 | -- | <.008 | <.05 |
| APR | | | | | | | | | | | | | |
| 11... | 1430 | 691 | 270 | 8.0 | 17.5 | 9.4 | 99 | 116 | 11.4 | 5.57 | .51 | .026 | .53 |
| MAY | | | | | | | | | | | | | |
| 16... | 0900 | 25 | 615 | 8.1 | 21.9 | 8.4 | 98 | 221 | 48.8 | 34.2 | -- | <.008 | .11 |
| JUN | | | | | | | | | | | | | |
| 13... | 1000 | 21 | 583 | 7.7 | 27.5 | 7.6 | 99 | 199 | 42.1 | 32.5 | -- | <.008 | .11 |
| JUL | | | | | | | | | | | | | |
| 11... | 1030 | 13 | 564 | 7.9 | 28.8 | 7.6 | 99 | 184 | 43.0 | 35.7 | -- | <.008 | .08 |
| AUG | | | | | | | | | | | | | |
| 07... | 1030 | 3.3 | 657 | 7.6 | 27.7 | 6.8 | 89 | 182 | 53.5 | 57.9 | -- | E.006 | E.04 |

| Date | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, TOTAL (MG/L AS N) (00600) | NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681) | CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155) | SEDI-MENT, SUS-PENDED (MG/L) (80154) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 06... | <.04 | -- | -- | .37 | .022 | <.02 | -- | 4.5 | 1.0 | .12 | 13 | <.002 | <.004 |
| DEC | | | | | | | | | | | | | |
| 06... | <.04 | -- | -- | .24 | .020 | <.02 | -- | 2.9 | 1.1 | .41 | 25 | <.002 | <.004 |
| JAN | | | | | | | | | | | | | |
| 08... | <.04 | .31 | -- | .15 | .013 | <.02 | -- | 1.8 | .5 | .57 | 29 | <.006 | <.006 |
| FEB | | | | | | | | | | | | | |
| 14... | <.04 | -- | -- | .23 | .014 | <.02 | -- | 2.9 | .6 | .32 | 14 | <.006 | <.006 |
| MAR | | | | | | | | | | | | | |
| 14... | <.04 | -- | -- | .22 | .019 | <.02 | -- | 2.3 | .9 | 1.2 | 63 | <.006 | <.006 |
| APR | | | | | | | | | | | | | |
| 11... | .05 | 1.4 | .81 | .86 | .19 | .05 | .147 | 7.0 | 6.9 | 612 | 328 | <.006 | <.006 |
| MAY | | | | | | | | | | | | | |
| 16... | <.04 | .37 | -- | .27 | .024 | <.02 | -- | 2.9 | .7 | 3.8 | 57 | <.006 | <.006 |
| JUN | | | | | | | | | | | | | |
| 13... | <.04 | .51 | -- | .40 | .030 | <.02 | -- | 3.5 | 1.2 | 4.3 | 76 | <.006 | <.006 |
| JUL | | | | | | | | | | | | | |
| 11... | <.04 | .44 | -- | .37 | .031 | <.02 | -- | 2.7 | 1.0 | 2.1 | 59 | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | E.03 | -- | -- | .32 | .032 | <.02 | -- | 2.6 | .8 | .91 | 102 | -- | -- |

08051500 Clear Creek near Sanger, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 06... | <.002 | <.005 | .008 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.002 |
| DEC | | | | | | | | | | | | | |
| 06... | <.002 | <.005 | <.007 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | <.006 |
| JAN | | | | | | | | | | | | | |
| 08... | <.004 | <.005 | .009 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | <.006 |
| FEB | | | | | | | | | | | | | |
| 14... | <.004 | <.005 | 1.05 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.072 |
| MAR | | | | | | | | | | | | | |
| 14... | <.004 | <.005 | .194 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.013 |
| APR | | | | | | | | | | | | | |
| 11... | .008 | <.005 | .094 | <.050 | <.010 | <.002 | <.041 | <.020 | E.003n | <.006 | <.018 | <.003 | E.007 |
| MAY | | | | | | | | | | | | | |
| 16... | <.004 | <.005 | .047 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.009 |
| JUN | | | | | | | | | | | | | |
| 13... | <.004 | <.005 | .078 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.014 |
| JUL | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Date | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 06... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | <.013 | <.006 | <.002 |
| DEC | | | | | | | | | | | | | |
| 06... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | <.013 | <.006 | <.002 |
| JAN | | | | | | | | | | | | | |
| 08... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | <.013 | <.006 | <.002 |
| FEB | | | | | | | | | | | | | |
| 14... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | <.013 | <.006 | <.002 |
| MAR | | | | | | | | | | | | | |
| 14... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.002n | <.006 | <.002 |
| APR | | | | | | | | | | | | | |
| 11... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.009n | <.006 | <.002 |
| MAY | | | | | | | | | | | | | |
| 16... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.012n | <.006 | <.002 |
| JUN | | | | | | | | | | | | | |
| 13... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .024 | <.006 | <.002 |
| JUL | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Date | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 06... | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | .02 | <.010 | <.011 | <.02 | <.004 | <.011 |
| DEC | | | | | | | | | | | | | |
| 06... | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.011 |
| JAN | | | | | | | | | | | | | |
| 08... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| FEB | | | | | | | | | | | | | |
| 14... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| MAR | | | | | | | | | | | | | |
| 14... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| APR | | | | | | | | | | | | | |
| 11... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| MAY | | | | | | | | | | | | | |
| 16... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .02 | <.010 | <.011 | <.02 | <.004 | <.005 |
| JUN | | | | | | | | | | | | | |
| 13... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| JUL | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08051500 Clear Creek near Sanger, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|
| NOV | | | | | | |
| 06... | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| DEC | | | | | | |
| 06... | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JAN | | | | | | |
| 08... | .13 | <.034 | <.02 | <.005 | <.002 | <.009 |
| FEB | | | | | | |
| 14... | .05 | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAR | | | | | | |
| 14... | E.07 | <.034 | <.02 | <.005 | <.002 | <.009 |
| APR | | | | | | |
| 11... | .02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAY | | | | | | |
| 16... | E.05 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUN | | | | | | |
| 13... | .05 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUL | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
n -- Below the NDV

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## 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 mi upstream from Lewisville Dam on the Elm Fork Trinity River.

DRAINAGE AREA.--75.5 $mi^2$.

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-l: 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.--Records fair except those for estimated daily discharges, which are poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.03 | 0.33 | 0.38 | 0.13 | 634 | 4.6 | 487 | 2.1 | 0.67 | 0.94 | 0.09 | 0.31 |
| 2 | 0.04 | 0.34 | 0.51 | 0.06 | 247 | 5.9 | 241 | 1.9 | 0.40 | 1.2 | 0.05 | 0.50 |
| 3 | 0.07 | 0.40 | 0.55 | 0.06 | 174 | 5.0 | 182 | 2.0 | 0.34 | 1.3 | 0.00 | 0.05 |
| 4 | 0.11 | 0.35 | 0.40 | 0.08 | 100 | 3.9 | 118 | 2.8 | 0.23 | 1.5 | 0.03 | 0.11 |
| 5 | 0.14 | 0.29 | 0.36 | 0.29 | 164 | 2.8 | 82 | 2.4 | 2.2 | 0.83 | 0.00 | 0.35 |
| 6 | 0.06 | 0.35 | 0.31 | 0.45 | 367 | 1.4 | 55 | 2.8 | 32 | 0.45 | 0.00 | 0.21 |
| 7 | 0.05 | 0.39 | 0.30 | 0.56 | 208 | 0.61 | 557 | 2.4 | 12 | 0.23 | 0.0 | 0.07 |
| 8 | 0.23 | 0.26 | 0.43 | 0.58 | 107 | 0.44 | 1690 | 2.1 | 4.7 | 0.08 | 0.02 | 0.58 |
| 9 | 0.02 | 0.25 | 0.46 | 0.40 | 61 | 0.55 | 539 | 1.9 | 2.3 | 0.07 | 0.04 | 1.4 |
| 10 | 0.68 | 0.26 | 0.55 | 0.42 | 31 | 0.82 | 349 | 200 | 1.2 | 0.12 | 0.00 | 1.9 |
| 11 | 27 | 0.12 | 0.88 | 0.64 | 17 | 0.89 | 214 | 91 | 0.71 | 0.10 | 0.00 | 1.5 |
| 12 | e73 | 0.11 | 1.4 | 0.52 | 12 | 0.73 | 140 | 35 | 0.44 | 0.0 | 0.00 | 1.1 |
| 13 | e1300 | 0.06 | 1.8 | 0.48 | 10 | 0.64 | 129 | 20 | 0.26 | 0.21 | 0.03 | 0.83 |
| 14 | e372 | 0.06 | 1.8 | 0.33 | 8.6 | 0.65 | 180 | 15 | 0.43 | 0.48 | 0.02 | 0.77 |
| 15 | e161 | 0.03 | 2.0 | 0.46 | 7.4 | 1.1 | 96 | 11 | 0.35 | 27 | 0.05 | 0.61 |
| 16 | e82 | 0.01 | 39 | 0.36 | 6.2 | 1.3 | 50 | 9.8 | 0.81 | 8.7 | 0.08 | 0.46 |
| 17 | e31 | 0.00 | 138 | 0.39 | 4.2 | 1.0 | 25 | 157 | 1.5 | 4.1 | 0.07 | 0.49 |
| 18 | e15 | 0.02 | 62 | 0.36 | 1.8 | 25 | 15 | 150 | 1.5 | 2.2 | 0.16 | 0.23 |
| 19 | e9.3 | 0.03 | 32 | 0.43 | 1.4 | 1780 | 12 | 65 | 0.86 | 2.0 | 0.01 | 0.27 |
| 20 | e7.8 | 0.00 | 16 | 0.52 | 12 | 3180 | 9.6 | 35 | 0.41 | 1.9 | 0.03 | 0.33 |
| 21 | e6.7 | 0.03 | 11 | 0.38 | 10 | 770 | 8.2 | 20 | 0.20 | 0.53 | 0.02 | 0.23 |
| 22 | e6.1 | 0.05 | 9.5 | 0.44 | 8.9 | 543 | 7.0 | 15 | 0.11 | 0.19 | 0.02 | 0.13 |
| 23 | e4.6 | 0.07 | 7.8 | 0.76 | 8.3 | 465 | 6.2 | 13 | 0.04 | 0.15 | 0.01 | 0.04 |
| 24 | 4.5 | 0.07 | 6.4 | 80 | 7.1 | 415 | 5.1 | 11 | 0.03 | 0.08 | 0.02 | 0.0 |
| 25 | 2.2 | 0.04 | 5.4 | 114 | 6.6 | 363 | 2.6 | 10 | 0.04 | 0.04 | 0.05 | 0.00 |
| 26 | 0.46 | 0.01 | 4.2 | 30 | 5.7 | 314 | 2.2 | 9.2 | 0.12 | 0.04 | 0.26 | 0.0 |
| 27 | 0.05 | 0.02 | 2.1 | 15 | 5.0 | 186 | 2.1 | 6.9 | 0.23 | 0.14 | 0.39 | 0.00 |
| 28 | 0.00 | 0.23 | 0.63 | 11 | 3.6 | 146 | 1.8 | 3.1 | 0.25 | 0.03 | 1.1 | 0.00 |
| 29 | 0.13 | 0.46 | 0.30 | 8.5 | --- | 122 | 1.6 | 2.3 | 0.27 | 0.00 | 0.95 | 0.00 |
| 30 | 0.43 | 0.52 | 0.26 | 7.3 | --- | 1380 | 2.2 | 1.6 | 0.40 | 0.00 | 0.54 | 0.04 |
| 31 | 0.42 | --- | 0.21 | 1130 | --- | 1500 | --- | 1.2 | --- | 0.00 | 0.48 | --- |
| TOTAL | 2105.12 | 5.16 | 346.93 | 1404.90 | 2228.8 | 11221.33 | 5209.6 | 902.5 | 65.00 | 54.61 | 4.52 | 12.51 |
| MEAN | 67.91 | 0.172 | 11.19 | 45.32 | 79.60 | 362.0 | 173.7 | 29.11 | 2.167 | 1.762 | 0.146 | 0.417 |
| MAX | 1300 | 0.52 | 138 | 1130 | 634 | 3180 | 1690 | 200 | 32 | 27 | 1.1 | 1.9 |
| MIN | 0.00 | 0.00 | 0.21 | 0.06 | 1.4 | 0.44 | 1.6 | 1.2 | 0.03 | 0.00 | 0.00 | 0.00 |
| AC-FT | 4180 | 10 | 688 | 2790 | 4420 | 22260 | 10330 | 1790 | 129 | 108 | 9.0 | 25 |

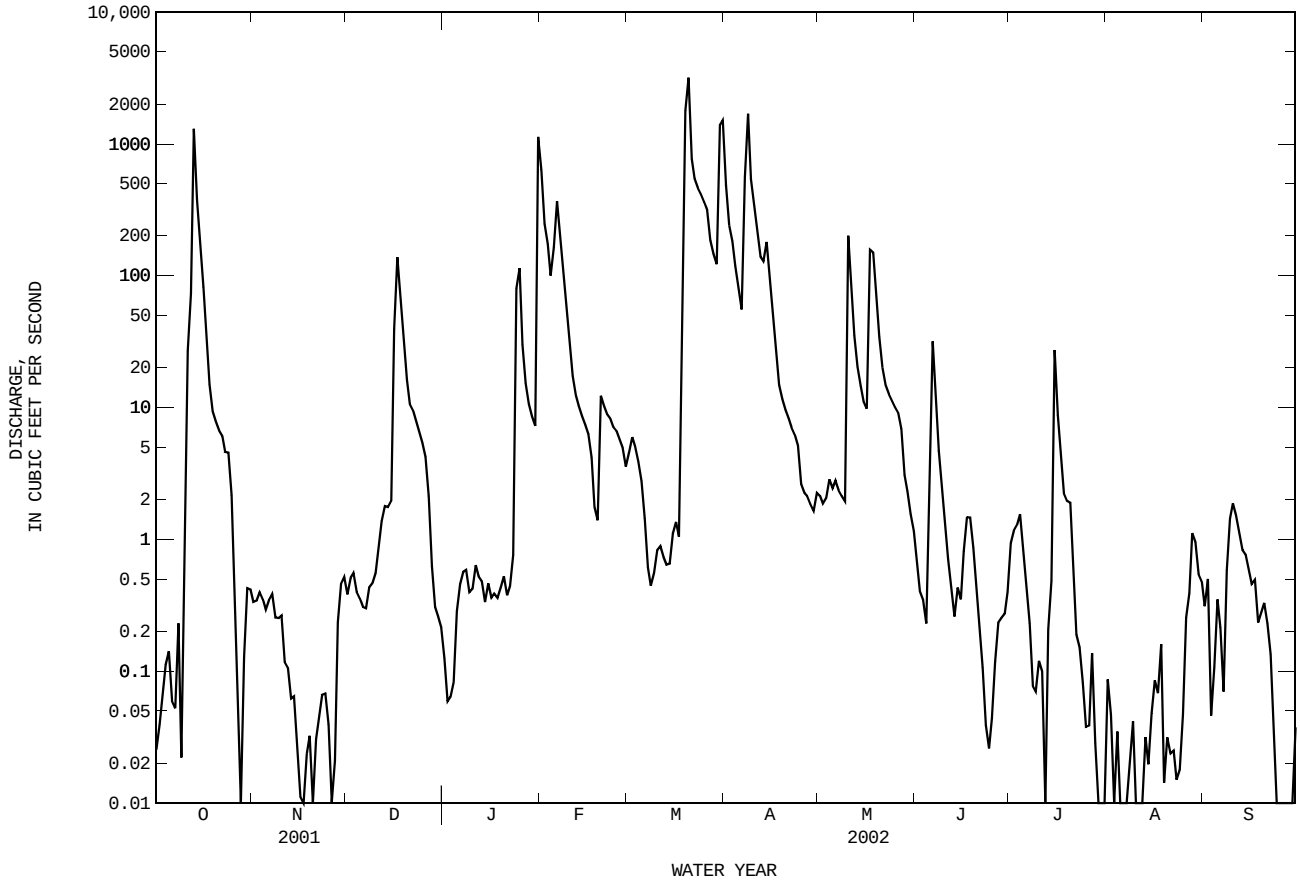
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 55.86 | 61.89 | 51.27 | 26.66 | 67.00 | 61.57 | 69.22 | 115.7 | 46.80 | 17.85 | 2.133 | 28.76 |
| MAX | 641 | 530 | 398 | 208 | 400 | 362 | 677 | 897 | 286 | 540 | 28.5 | 258 |
| (WY) | 1982 | 1997 | 1992 | 1998 | 2001 | 2002 | 1957 | 1982 | 1989 | 1994 | 1966 | 1964 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1957 | 1959 | 1959 | 1959 | 1959 | 1963 | 1959 | 1959 | 1956 | 1956 | 1956 | 1956 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1956 - 2002h | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 23662.25 | | 23560.98 | | | |
| ANNUAL MEAN | 64.83 | | 64.55 | | 50.44 | |
| HIGHEST ANNUAL MEAN | | | | | 178 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 2.24 | 1959 |
| HIGHEST DAILY MEAN | 2500 | Feb 16 | 3180 | Mar 20 | 11600 | Jul 11 1994 |
| LOWEST DAILY MEAN | 0.00 | May 1 | 0.00 | Oct 28 | 0.00 | Jun 1 1956 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jun 5 | 0.01 | Sep 23 | 0.00 | Jun 1 1956 |
| MAXIMUM PEAK FLOW | | | 8000 | Mar 20 | 36200 | Jul 11 1994 |
| MAXIMUM PEAK STAGE | | | 17.40 | Mar 20 | 18.27 | Jul 11 1994 |
| ANNUAL RUNOFF (AC-FT) | 46930 | | 46730 | | 36540 | |
| 10 PERCENT EXCEEDS | 169 | | 133 | | 83 | |
| 50 PERCENT EXCEEDS | 0.56 | | 0.77 | | 0.61 | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.03 | | 0.00 | |

e Estimated
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 $mi^2$.

PERIOD OF RECORD.--Nov. 1954 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 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 except those for estimated daily contents, which are fair. 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, l954, 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 mi in the Elm Fork Trinity River, Clear, Little Elm, and Hickory Creeks watersheds. An unknown amount of water was diverted for municipal and industrial uses. Conservation pool storage is 640,990 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 560.0 |
| Crest of spillway | 532.0 |
| Top of conservation pool | 522.0 |
| Lowest intakes to wet wells (invert) | 481.0 |
| Invert of three broome-type gates | 448.0 |

COOPERATION.--Capacity Table No. 1, furnished by the U.S. Army Corps of Engineers, from 1965 survey, and put into effect on Oct. 1, 1995.

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 contents, 749,300 acre-ft, Apr. 14, 15, 16, elevation, 525.51 ft; minimum contents, 488,600 acre-ft, Jan. 22, elevation, 516.30 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

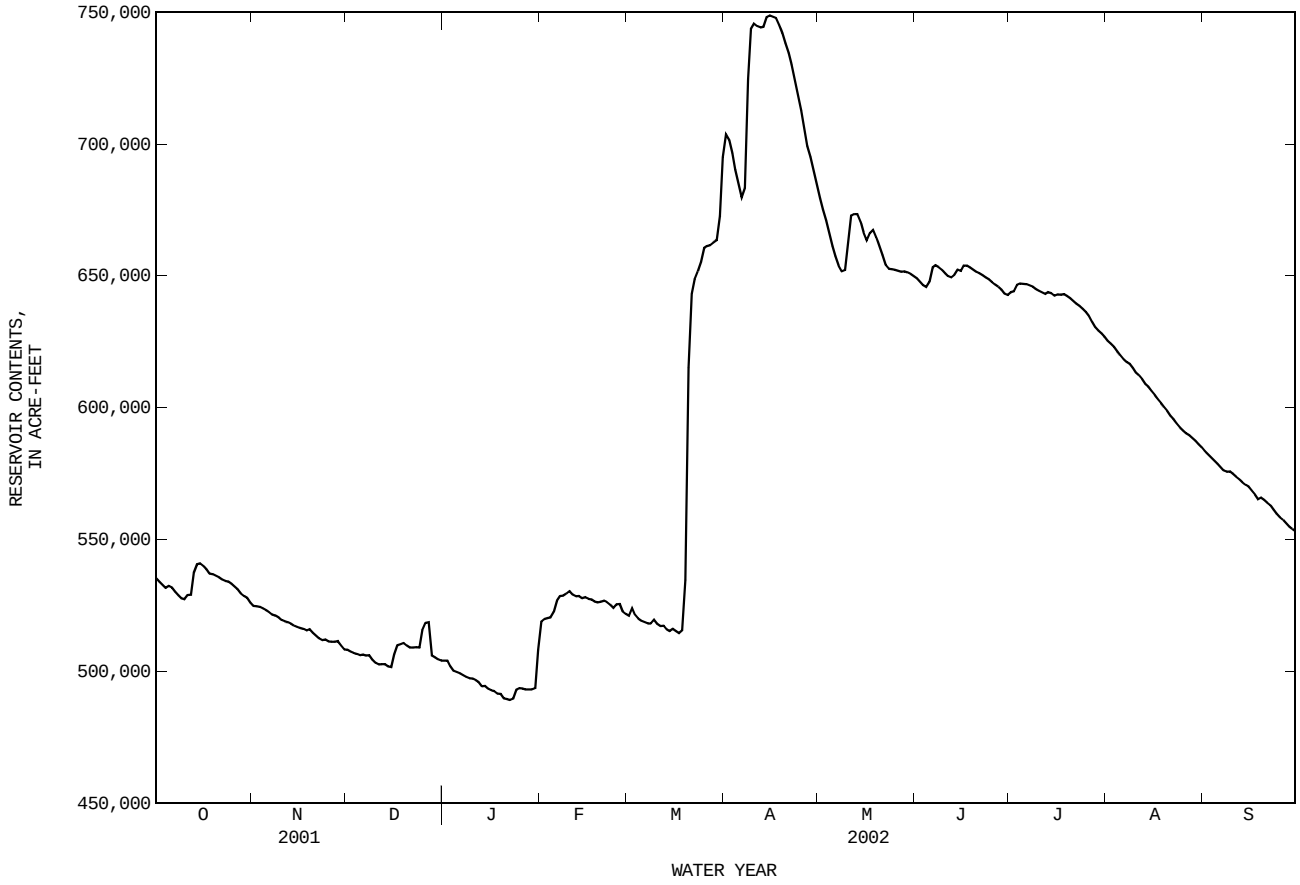
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 535100 | 524700 | 508100 | e504000 | 518800 | 521000 | 703600 | 679300 | 648900 | 643700 | 625300 | 583500 |
| 2 | 533800 | 524600 | 507400 | e504000 | 519800 | 523900 | 701600 | 675100 | 647700 | 644100 | 624200 | 582300 |
| 3 | 532600 | 524400 | 506900 | e501800 | 520200 | 521300 | 696400 | 671000 | 646400 | 646500 | 622900 | 581100 |
| 4 | 531500 | 523800 | 506500 | e500100 | 520400 | 519900 | 690100 | 666000 | 645700 | 647000 | 621300 | 579900 |
| 5 | 532200 | 523200 | 506000 | e499600 | 522400 | 519000 | 684800 | 661100 | 647600 | 646900 | 619900 | 578700 |
| 6 | 531600 | 522400 | 506300 | e499100 | 526700 | 518600 | 679700 | 657300 | 653100 | 646800 | 618300 | 577500 |
| 7 | 530100 | 521500 | 505900 | e498400 | 528500 | 518100 | 683300 | 653800 | 653900 | 646300 | 617300 | 576100 |
| 8 | 528800 | 521100 | 506100 | 497900 | 528600 | 518100 | 724500 | 651600 | 653100 | 645800 | 616500 | 575600 |
| 9 | 527700 | 520400 | 504300 | 497300 | 529300 | 519500 | 743500 | 652100 | 652300 | 645000 | 614900 | 575800 |
| 10 | 527400 | 519400 | 503200 | 497200 | 530400 | 517900 | 745600 | 663400 | 650900 | 644200 | 613300 | 574900 |
| 11 | 528900 | 518900 | 502500 | 496600 | 529000 | 517100 | 744600 | 672800 | 649800 | 643600 | 612200 | 573800 |
| 12 | 529000 | 518600 | 502700 | 495900 | 528400 | 517200 | 744200 | 673400 | 649400 | 643000 | 610700 | 572800 |
| 13 | 537400 | 518000 | 502600 | 494300 | 528500 | 515800 | 744400 | 673400 | 650300 | 643700 | 608900 | 571600 |
| 14 | 540600 | 517200 | 501800 | 494400 | 527600 | 515100 | 748100 | 670400 | 652200 | 643300 | 607900 | 570600 |
| 15 | 540900 | 516700 | 501500 | 493300 | 528000 | 516000 | 748600 | 666500 | 651800 | 642500 | 606200 | 570000 |
| 16 | 539900 | 516300 | 506300 | 492700 | 527400 | 515100 | 748200 | 663400 | 653800 | 642900 | 604800 | 568500 |
| 17 | 538600 | 516000 | 509800 | 492400 | 527100 | 514400 | 747600 | 666200 | 653800 | 642700 | 603100 | 567000 |
| 18 | 537000 | 515300 | 510100 | 491500 | 526500 | 515500 | 745200 | 667400 | 653000 | 643000 | 601600 | 565100 |
| 19 | 536700 | 515900 | 510700 | 491300 | 526100 | 534500 | 742100 | 664500 | 652200 | 642300 | 600100 | 565700 |
| 20 | 536200 | 514500 | 509600 | 489700 | 526300 | 615100 | 738100 | 661300 | 651400 | 641400 | 598700 | 565000 |
| 21 | 535500 | 513400 | 509000 | 489500 | 526700 | 643100 | 734500 | 657800 | 650900 | 640400 | 596900 | 563800 |
| 22 | 534800 | 512400 | 509000 | 489000 | 526200 | 648600 | 730000 | 654000 | 650100 | 639400 | 595500 | 562900 |
| 23 | 534200 | 511700 | e509000 | 489500 | 525200 | 651700 | 724100 | 652600 | 649400 | 638500 | 594000 | 561200 |
| 24 | 534000 | 512000 | e509000 | 492900 | 524000 | 655200 | 718600 | 652400 | 648600 | 637400 | 592500 | 559800 |
| 25 | 533100 | e511300 | e515500 | 493500 | 525400 | 660500 | 712700 | 652200 | 647600 | 636200 | 591300 | 558400 |
| 26 | 532000 | e511200 | e518300 | 493400 | 525500 | 661200 | 705500 | 651800 | 646700 | 634600 | 590200 | 557400 |
| 27 | 531000 | e511100 | e518500 | 493100 | 522700 | 661600 | 699200 | 651500 | 645800 | 632600 | 589500 | 556100 |
| 28 | 529400 | 511400 | e506000 | 493000 | 521700 | 662500 | 695000 | 651700 | 644700 | 630500 | 588500 | 554700 |
| 29 | 528600 | 509700 | e505200 | 493000 | --- | 663400 | 689700 | 651300 | 643100 | 629200 | 587400 | 553900 |
| 30 | 527700 | 508200 | e504500 | 493500 | --- | 672700 | 684500 | 650600 | 642700 | 628000 | 586000 | 553000 |
| 31 | 525900 | --- | e504000 | 508100 | --- | 694900 | --- | 649800 | --- | 626900 | 584800 | --- |
| MEAN | 533000 | 516800 | 507300 | 495500 | 525600 | 572500 | 719900 | 660800 | 649600 | 640600 | 604700 | 568600 |
| MAX | 540900 | 524700 | 518500 | 508100 | 530400 | 694900 | 748600 | 679300 | 653900 | 647000 | 625300 | 583500 |
| MIN | 525900 | 508200 | 501500 | 489000 | 518800 | 514400 | 679700 | 649800 | 642700 | 626900 | 584800 | 553000 |
| (+) | 517.80 | 517.10 | 516.93 | 517.09 | 517.64 | 523.78 | 523.44 | 522.29 | 522.06 | 521.52 | 520.05 | 518.86 |
| (@) | -11000 | -17700 | -4200 | +4100 | +13600 | +173200 | -10400 | -34700 | -7100 | -15800 | -42100 | -31800 |

CAL YR 2001 MAX 793500 MIN 447900 (@) +57600
WTR YR 2002 MAX 748600 MIN 489000 (@) +16100

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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 $mi^2$.

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.--No estimated daily discharges. Records good. 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 $ft^3/s$ (291,200 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1950-54).--Maximum discharge, 21,700 $ft^3/s$, Sept. 15, 1950, gage height, 30.75 ft; no flow June 14, 1954.

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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 277 | 244 | 218 | 183 | 230 | 1610 | 4120 | 431 | 396 | 377 | 303 |
| 2 | 336 | 277 | 245 | 232 | 214 | 245 | 3730 | 4080 | 429 | 348 | 363 | 301 |
| 3 | 226 | 277 | 243 | 246 | 164 | 210 | 4220 | 4120 | 396 | 341 | 359 | 306 |
| 4 | 240 | 266 | 243 | 235 | 164 | 190 | 4400 | 4110 | 286 | 315 | 368 | 327 |
| 5 | 294 | 257 | 258 | 226 | 239 | 200 | 4820 | 3860 | 259 | 304 | 377 | 342 |
| 6 | 269 | 242 | 254 | 237 | 215 | 200 | 4910 | 3170 | 350 | 303 | 375 | 366 |
| 7 | 267 | 228 | 221 | 244 | 176 | 217 | 4960 | 2690 | 660 | 302 | 381 | 363 |
| 8 | 265 | 224 | 220 | 252 | 142 | 223 | 2220 | 1280 | 871 | 311 | 381 | 378 |
| 9 | 266 | 220 | 230 | 267 | 118 | 213 | 991 | 497 | 866 | 307 | 381 | 341 |
| 10 | 265 | 214 | 241 | 307 | 137 | 213 | 2720 | 1100 | 859 | 290 | 380 | 297 |
| 11 | 262 | 208 | 255 | 338 | 216 | 213 | 4590 | 2150 | 747 | 307 | 346 | 294 |
| 12 | 251 | 197 | 262 | 312 | 222 | 213 | 4820 | 2180 | 427 | 387 | 320 | 294 |
| 13 | 263 | 209 | 245 | 273 | 173 | 215 | 4460 | 2010 | 393 | 310 | 311 | 289 |
| 14 | 182 | 229 | 234 | 245 | 139 | 222 | 3010 | 1660 | 278 | 302 | 315 | 282 |
| 15 | 212 | 226 | 224 | 247 | 147 | 227 | 3600 | 1650 | 288 | 303 | 306 | 277 |
| 16 | 238 | 176 | 461 | 288 | 147 | 226 | 4020 | 1640 | 327 | 301 | 302 | 283 |
| 17 | 246 | 178 | 181 | 306 | 164 | 226 | 4050 | 1710 | 312 | 302 | 340 | 288 |
| 18 | 243 | 179 | 170 | 283 | 318 | 250 | 4000 | 1660 | 310 | 301 | 365 | 292 |
| 19 | 223 | 175 | 183 | 258 | 461 | 999 | 3960 | 1640 | 310 | 297 | 364 | 302 |
| 20 | 205 | 171 | 192 | 248 | 151 | 1530 | 3870 | 1630 | 309 | 296 | 363 | 296 |
| 21 | 206 | 169 | 206 | 212 | 139 | 561 | 3830 | 1630 | 306 | 297 | 367 | 294 |
| 22 | 208 | 170 | 205 | 184 | 161 | 1490 | 3930 | 1100 | 305 | 293 | 370 | 293 |
| 23 | 231 | 172 | 203 | 192 | 208 | 2300 | 4370 | 481 | 301 | 302 | 371 | 283 |
| 24 | 250 | 173 | 202 | 235 | 219 | 2390 | 4790 | 462 | 300 | 311 | 359 | 285 |
| 25 | 248 | 216 | 211 | 149 | 217 | 2540 | 4800 | 450 | 300 | 320 | 376 | 307 |
| 26 | 244 | 321 | 219 | 143 | 216 | 2890 | 4720 | 451 | 341 | 312 | 394 | 323 |
| 27 | 244 | 329 | 231 | 143 | 217 | 2740 | 4290 | 448 | 382 | 351 | 360 | 314 |
| 28 | 247 | 283 | 247 | 143 | 217 | 2580 | 4160 | 448 | 371 | 376 | 312 | 306 |
| 29 | 272 | 247 | 246 | 143 | --- | 2960 | 4160 | 449 | 362 | 455 | 300 | 161 |
| 30 | 284 | 246 | 232 | 141 | --- | 2690 | 4150 | 437 | 368 | 462 | 300 | 86 |
| 31 | 271 | --- | 219 | 1090 | --- | 703 | --- | 435 | --- | 397 | 301 | --- |
| TOTAL | 7806 | 6756 | 7227 | 8037 | 5484 | 30306 | 118161 | 53748 | 12444 | 10199 | 10884 | 8873 |
| MEAN | 251.8 | 225.2 | 233.1 | 259.3 | 195.9 | 977.6 | 3939 | 1734 | 414.8 | 329.0 | 351.1 | 295.8 |
| MAX | 348 | 329 | 461 | 1090 | 461 | 2960 | 4960 | 4120 | 871 | 462 | 394 | 378 |
| MIN | 182 | 169 | 170 | 141 | 118 | 190 | 991 | 435 | 259 | 290 | 300 | 86 |
| AC-FT | 15480 | 13400 | 14330 | 15940 | 10880 | 60110 | 234400 | 106600 | 24680 | 20230 | 21590 | 17600 |

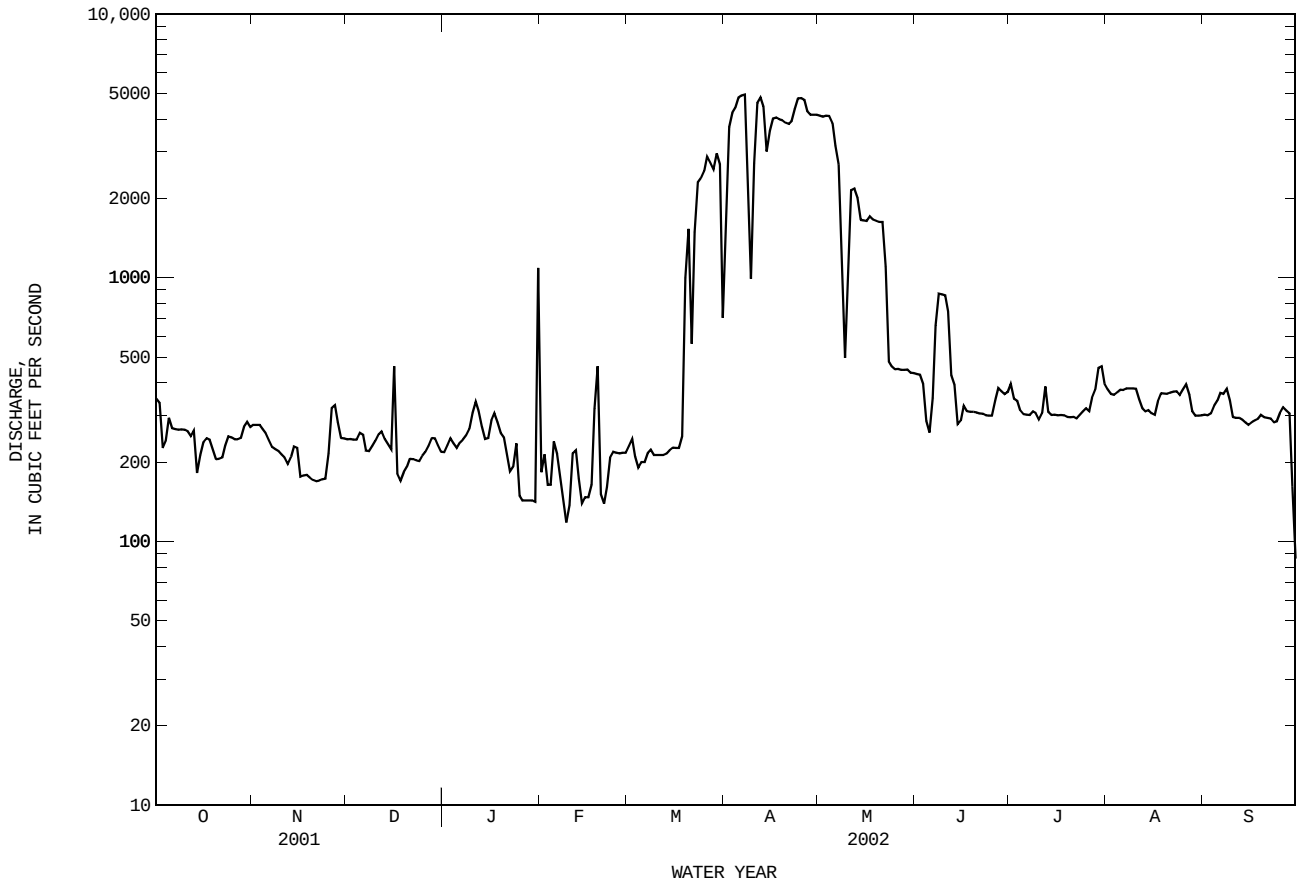
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 409.3 | 625.6 | 642.5 | 512.2 | 613.2 | 905.3 | 878.6 | 1318 | 1312 | 805.6 | 480.4 | 339.7 |
| MAX | 3628 | 6300 | 4681 | 5267 | 4611 | 4218 | 3939 | 8391 | 5222 | 4479 | 4101 | 2480 |
| (WY) | 1982 | 1982 | 1982 | 1992 | 1992 | 1997 | 2002 | 1990 | 1957 | 1989 | 1982 | 1962 |
| MIN | 23.1 | 37.3 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1955 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 282847 | | 279925 | | | |
| ANNUAL MEAN | 774.9 | | 766.9 | | 737.3 | |
| HIGHEST ANNUAL MEAN | | | | | 3062 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 94.2 | 1955 |
| HIGHEST DAILY MEAN | 4200 | Apr 22 | 4960 | Apr 7 | 19000 | May 4 1990 |
| LOWEST DAILY MEAN | 27 | Feb 10 | 86 | Sep 30 | 0.00 | Oct 20 1993 |
| ANNUAL SEVEN-DAY MINIMUM | 34 | Feb 6 | 157 | Jan 24 | 0.29 | Nov 3 1983 |
| MAXIMUM PEAK FLOW | | | 5120 | Apr 7 | 19600 | May 4 1990 |
| MAXIMUM PEAK STAGE | | | 21.66 | Apr 7 | 30.15 | May 4 1990 |
| ANNUAL RUNOFF (AC-FT) | 561000 | | 555200 | | 534100 | |
| 10 PERCENT EXCEEDS | 2620 | | 2700 | | 3040 | |
| 50 PERCENT EXCEEDS | 329 | | 300 | | 226 | |
| 90 PERCENT EXCEEDS | 131 | | 184 | | 80 | |

z Period of regulated streamflow.



## 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 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1949 to current year.

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 estimated daily discharges, which are poor. Since installation of gage, at least 10% of contributing drainage has been affected at times by discharge from the flood detention pools of 84 floodwater-retarding structures. These structures control runoff from 197 $mi^2$ 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | e0.0 | 0.0 | 3.8 | 8.5 | 13 | 9.6 | 520 | 78 | 39 | 28 | e14 | e0.02 |
| 2 | e0.0 | 0.0 | 3.4 | 8.5 | 11 | 10 | 259 | 53 | 36 | 47 | e13 | e0.02 |
| 3 | e0.0 | 0.0 | 3.2 | 8.5 | 10 | 11 | 150 | 48 | 34 | 71 | e12 | e0.01 |
| 4 | 0.0 | 0.0 | 3.3 | 8.5 | 9.7 | 12 | 91 | 52 | 33 | 230 | e11 | e0.01 |
| 5 | 0.0 | 0.0 | 3.5 | 10 | 23 | 12 | 71 | 51 | 651 | 138 | e10.5 | e0.01 |
| 6 | 0.0 | 0.0 | 3.5 | 12 | 35 | 11 | 63 | 47 | 1030 | 82 | e8.3 | e0.0 |
| 7 | 0.0 | 0.0 | 3.4 | 14 | 23 | 11 | 360 | 41 | 362 | 48 | e6.6 | e0.16 |
| 8 | 0.0 | 0.0 | 3.1 | 12 | 18 | 11 | 3380 | 41 | 202 | 34 | e6.1 | e0.25 |
| 9 | 0.0 | 0.0 | 2.6 | 11 | 14 | 10 | 1260 | 41 | 129 | 25 | e5.6 | e0.33 |
| 10 | 0.0 | 0.0 | 2.5 | 10 | 12 | 9.9 | 636 | 1900 | 84 | 22 | e7.6 | e0.31 |
| 11 | 0.0 | 0.0 | 2.7 | 10 | 11 | 9.8 | 413 | 661 | 57 | 21 | e6.8 | e0.26 |
| 12 | 2.5 | 0.0 | 3.6 | 10 | 10 | 9.4 | 300 | 293 | 43 | 23 | e5.9 | e0.19 |
| 13 | 3.3 | 0.0 | 4.1 | 10 | 10 | 9.6 | 242 | 180 | 37 | 46 | e4.5 | e0.11 |
| 14 | 1.5 | 0.0 | 5.2 | 10 | 10 | 9.9 | 561 | 124 | 48 | 37 | e3.5 | e0.10 |
| 15 | 0.60 | 0.0 | 4.8 | 10 | 10 | 9.9 | 383 | 91 | 41 | 21 | e2.9 | e0.08 |
| 16 | 0.25 | 0.0 | 114 | 10 | 10 | 9.7 | 248 | 71 | 47 | 21 | e1.4 | e0.05 |
| 17 | 0.02 | 1.5 | 156 | 9.8 | 10 | 9.8 | 237 | 287 | 51 | 25 | e0.97 | e0.04 |
| 18 | 0.0 | 1.7 | 71 | 9.6 | 10 | 47 | 232 | 315 | 33 | 23 | e0.60 | e0.04 |
| 19 | 0.0 | 1.7 | 22 | 10 | 28 | 2690 | 156 | 140 | 27 | e21 | e0.32 | e3.0 |
| 20 | 0.0 | 1.1 | 12 | 10 | 40 | 4200 | 121 | 100 | 24 | e20 | e0.18 | e2.8 |
| 21 | 0.0 | 0.83 | 11 | 10 | 29 | 1070 | 102 | 68 | 22 | e19 | e0.09 | e2.5 |
| 22 | 0.0 | 0.76 | 10 | 11 | 16 | 523 | 87 | 53 | 22 | e18 | e0.03 | e2.4 |
| 23 | 0.0 | 0.84 | 9.8 | 11 | 12 | 310 | 74 | 46 | 21 | e17 | 0.01 | e2.2 |
| 24 | 0.0 | 0.92 | 9.4 | 12 | 11 | 232 | 67 | 42 | 21 | e16 | e0.01 | e2.0 |
| 25 | 0.0 | 1.0 | 8.8 | 16 | 10 | 169 | 58 | 40 | 21 | e16 | e0.01 | e1.7 |
| 26 | 0.0 | 1.2 | 8.8 | 14 | 9.4 | 113 | 53 | 80 | 20 | e15 | e0.08 | e1.3 |
| 27 | 0.0 | 1.4 | 8.8 | 12 | 9.2 | 82 | 53 | 92 | 20 | e14 | e0.20 | e0.80 |
| 28 | 0.0 | 2.0 | 9.0 | 11 | 9.3 | 68 | 53 | 70 | 20 | e13 | e0.16 | e0.40 |
| 29 | 0.0 | 2.0 | 9.0 | 11 | --- | 60 | 50 | 65 | 20 | e12 | e0.11 | e0.20 |
| 30 | 0.0 | 3.4 | 8.8 | 10 | --- | 82 | 60 | 53 | 20 | e11 | e0.08 | e0.08 |
| 31 | 0.0 | --- | 8.6 | 18 | --- | 646 | --- | 45 | --- | e15 | e0.04 | --- |
| TOTAL | 8.17 | 20.35 | 529.7 | 338.4 | 423.6 | 10467.6 | 10340 | 5268 | 3215 | 1149 | 122.59 | 21.37 |
| MEAN | 0.264 | 0.678 | 17.09 | 10.92 | 15.13 | 337.7 | 344.7 | 169.9 | 107.2 | 37.06 | 3.955 | 0.712 |
| MAX | 3.3 | 3.4 | 156 | 18 | 40 | 4200 | 3380 | 1900 | 1030 | 230 | 14 | 3.0 |
| MIN | 0.00 | 0.00 | 2.5 | 8.5 | 9.2 | 9.4 | 50 | 40 | 20 | 11 | 0.01 | 0.00 |
| AC-FT | 16 | 40 | 1050 | 671 | 840 | 20760 | 20510 | 10450 | 6380 | 2280 | 243 | 42 |

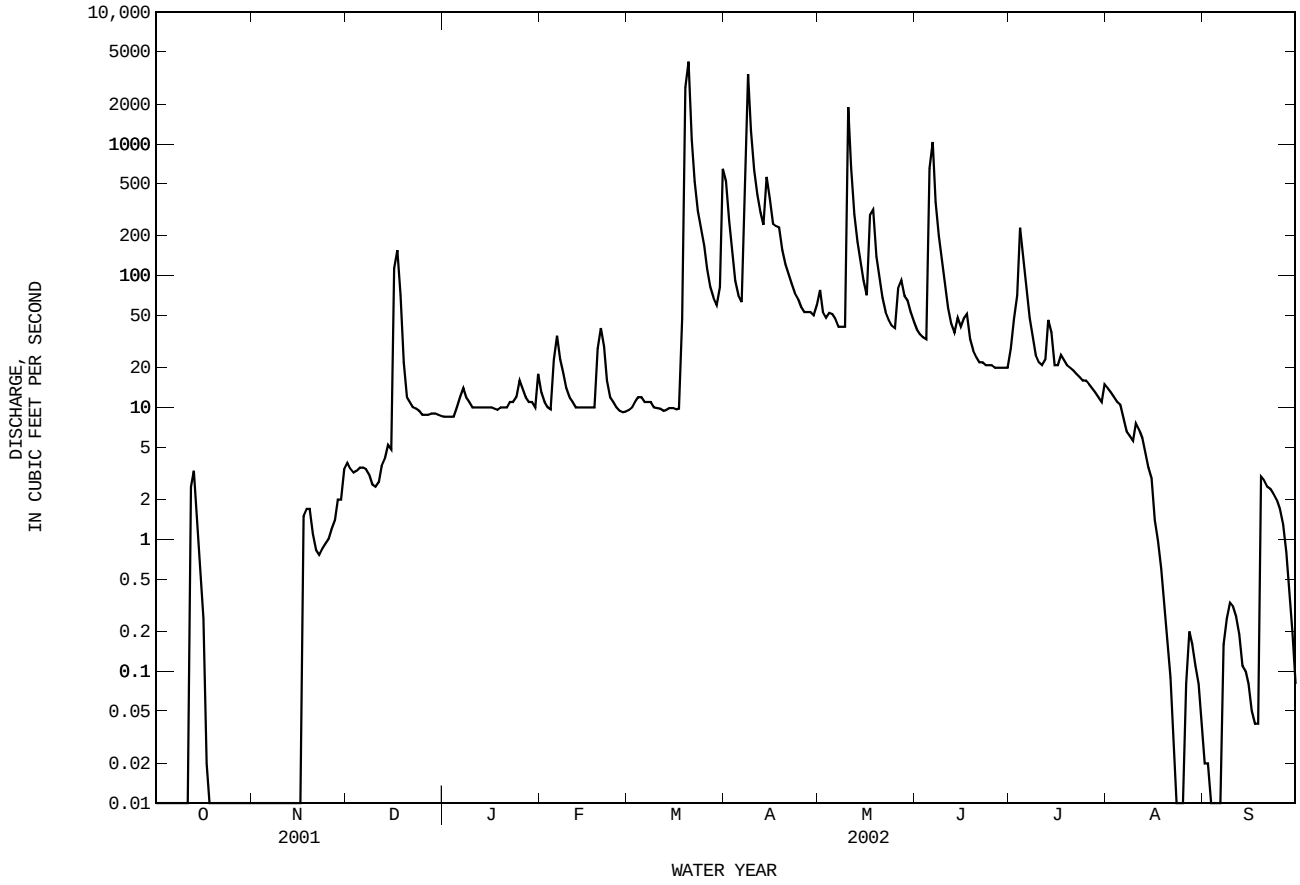
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 116.8 | 85.07 | 74.59 | 54.46 | 120.8 | 144.1 | 172.9 | 299.9 | 160.8 | 36.20 | 8.860 | 44.45 |
| MAX | 2828 | 817 | 1321 | 437 | 1236 | 598 | 2095 | 2036 | 1815 | 438 | 91.5 | 714 |
| (WY) | 1982 | 1965 | 1992 | 1992 | 2001 | 1998 | 1990 | 1982 | 1989 | 1950 | 1973 | 1962 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.00 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1952 | 1952 | 1952 | 1953 | 1953 | 1953 | 1955 | 1959 | 1953 | 1952 | 1952 | 1952 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1950 - 2002 | | |
|---|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 69315.87 | | 31903.78 | | | | |
| ANNUAL MEAN | 189.9 | | 87.41 | | 109.8 | | |
| HIGHEST ANNUAL MEAN | | | | | 577 | | 1982 |
| LOWEST ANNUAL MEAN | | | | | 2.76 | | 1956 |
| HIGHEST DAILY MEAN | 6880 | Feb 24 | 4200 | Mar 20 | 18600 | Oct 14 | 1981 |
| LOWEST DAILY MEAN | 0.00 | Aug 1 | 0.00 | Oct 1 | 0.00 | Oct 1 | 1949 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Aug 1 | 0.00 | Oct 1 | 0.00 | Oct 14 | 1949 |
| MAXIMUM PEAK FLOW | | | 8250 | Mar 19 | 34700 | Oct 13 | 1981 |
| MAXIMUM PEAK STAGE | | | 15.51 | Mar 19 | 18.68 | Oct 13 | 1981 |
| ANNUAL RUNOFF (AC-FT) | 137500 | | 63280 | | 79520 | | |
| 10 PERCENT EXCEEDS | 338 | | 144 | | 160 | | |
| 50 PERCENT EXCEEDS | 14 | | 10 | | 12 | | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | | 0.00 | | |

e Estimated

08053500 Denton Creek near Justin, TX--Continued



PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1980 to Sept. 1982, Oct. 1997 to current year.
BIOCHEMICAL DATA: Oct. 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1000 | 10 | 813 | 7.7 | 7.7 | 11.7 | 101 | -- | 260 | 60 | 78.6 | 16.0 | 58.1 |
| APR | | | | | | | | | | | | | |
| 11... | 1050 | 418 | 375 | 8.0 | 18.0 | 7.8 | 84 | 2.5 | 160 | 23 | 54.1 | 5.00 | 11.2 |
| MAY | | | | | | | | | | | | | |
| 15... | 0915 | 94 | 482 | 8.0 | 19.5 | 7.7 | 85 | <2.0 | 200 | 19 | 69.2 | 6.26 | 17.6 |
| AUG | | | | | | | | | | | | | |
| 13... | 1230 | 3.5 | 693 | 7.5 | 28.0 | 5.5 | 71 | <2.0 | 240 | 62 | 67.7 | 16.1 | 46.0 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 2 | 32 | 3.01 | 2 | 242 | 203 | 82.1 | 84.7 | .3 | 2.19 | 470 | 447 | <10 |
| APR | | | | | | | | | | | | | |
| 11... | .4 | 13 | 3.89 | 1 | 159 | 132 | 22.4 | 17.0 | .2 | 10.5 | 224 | 205 | 165 |
| MAY | | | | | | | | | | | | | |
| 15... | .5 | 16 | 3.52 | 2 | 215 | 179 | 33.8 | 21.2 | .2 | 10.3 | 284 | 271 | 36 |
| AUG | | | | | | | | | | | | | |
| 13... | 1 | 29 | 3.81 | 1 | 210 | 173 | 94.0 | 49.1 | .3 | 10.3 | 424 | 391 | 11 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | -- | <.008 | E.04 | <.04 | .24 | .016 | <.02 | -- | 63.0r | <1 | .14 | <2 | 85 |
| APR | | | | | | | | | | | | | |
| 11... | -- | E.007 | .24 | <.04 | .45 | .043 | .03 | .098 | 9.6 | 1 | .14 | 2 | 70 |
| MAY | | | | | | | | | | | | | |
| 15... | .37 | .015 | .39 | E.02 | .46 | .043 | E.01 | -- | 6.3 | 1 | .15 | 2 | 81 |
| AUG | | | | | | | | | | | | | |
| 13... | -- | <.008 | <.05 | <.04 | .42 | .012 | <.02 | -- | 5.1 | <1 | E.04 | 3 | 107 |

| Date | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | <.06 | <.04 | <.8 | .30 | 1.0 | <10 | <.08 | 9.6 | <.01 | 2.3 | 1.36 | <2 | <1 |
| APR | | | | | | | | | | | | | |
| 11... | <.06 | <.04 | <.8 | .25 | 1.5 | E7 | <.08 | 2.1 | -- | 1.3 | 1.90 | <2 | <1 |
| MAY | | | | | | | | | | | | | |
| 15... | <.06 | <.04 | <.8 | .33 | 1.5 | <10 | <.08 | 9.8 | <.01 | 1.8 | 2.12 | <2 | <1 |
| AUG | | | | | | | | | | | | | |
| 13... | <.06 | <.04 | <.8 | .20 | 1.2 | <10 | <.08 | 4.7 | <.01 | 2.8 | 1.05 | <2 | <1 |

08053500 Denton Creek near Justin, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | ZINC, DIS- SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703) |
|---|---|---|
| MAR | | |
| 06... | 1 | 4.22 |
| APR | | |
| 11... | <1 | 1.95 |
| MAY | | |
| 15... | 1 | 2.21 |
| AUG | | |
| 13... | 1 | 1.90 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
r -- Value verified by rerun, same method

08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX

LOCATION.--Lat 33°01'12", long 97°14'52", Denton County, Hydrologic Unit 12030104, over center of channel at downstream side of bridge on State Highway 114 1.5 mi east of Interstate Highway 35W and 1.9 mi northwest of courthouse in downtown Roanoke.

DRAINAGE AREA.--75 $mi^2$.

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1997 to current year.
BIOCHEMICAL DATA: Oct. 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1200 | 2.3 | 570 | 7.7 | 10.5 | 11.3 | 104 | -- | 210 | 11 | 74.4 | 5.31 | 32.9 |
| APR | | | | | | | | | | | | | |
| 16... | 1045 | 40 | 485 | 7.9 | 21.5 | 7.0 | 81 | <2.0 | 200 | 29 | 75.1 | 4.06 | 19.4 |
| MAY | | | | | | | | | | | | | |
| 15... | 1145 | 15 | 481 | 7.9 | 20.5 | 7.8 | 88 | <2.0 | 190 | 11 | 67.5 | 4.24 | 22.3 |
| AUG | | | | | | | | | | | | | |
| 13... | 1020 | 4.7 | 340 | 7.2 | 27.0 | 7.3 | 93 | 2.3 | 110 | 13 | 41.1 | 2.81 | 20.5 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1 | 25 | 2.44 | 2 | 236 | 197 | 48.1 | 30.9 | .3 | 2.37 | 326 | 316 | <10 |
| APR | | | | | | | | | | | | | |
| 16... | .6 | 17 | 2.92 | 2 | 210 | 175 | 31.1 | 16.4 | .3 | 7.97 | 299 | 264 | 12 |
| MAY | | | | | | | | | | | | | |
| 15... | .7 | 20 | 2.53 | <1 | 213 | 176 | 32.3 | 21.5 | .4 | 5.55 | 277 | 262 | 19 |
| AUG | | | | | | | | | | | | | |
| 13... | .8 | 27 | 4.13 | 1 | 122 | 100 | 22.8 | 22.8 | .3 | 7.83 | 198 | 185 | 28 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | -- | <.008 | .25 | <.04 | .20 | .005 | <.02 | 5.2 | 1 | .14 | <2 | 79 | <.06 |
| APR | | | | | | | | | | | | | |
| 16... | -- | E.006 | .39 | <.04 | .44 | .012 | <.02 | 6.5 | 2 | .26 | M | 82 | <.06 |
| MAY | | | | | | | | | | | | | |
| 15... | -- | E.005 | .21 | <.04 | .28 | .009 | <.02 | 3.9 | 2 | .14 | E1 | 79 | <.06 |
| AUG | | | | | | | | | | | | | |
| 13... | .47 | .025 | .49 | <.04 | .37 | .024 | E.01 | 6.6 | 3 | .10 | E2 | 57 | <.06 |

| Date | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | <.04 | <.8 | .25 | 1.2 | <10 | E.07 | 16.2 | <.01 | 1.7 | 1.12 | <2 | <1 | 1r |
| APR | | | | | | | | | | | | | |
| 16... | <.04 | <.8 | .30 | 1.6 | <10 | <.08 | 3.0 | -- | .9 | .56 | <2 | <1 | 2 |
| MAY | | | | | | | | | | | | | |
| 15... | <.04 | <.8 | .28 | 1.0 | <10 | E.05 | 9.2 | <.01 | 1.1 | 1.70 | <2 | <1 | <1 |
| AUG | | | | | | | | | | | | | |
| 13... | <.04 | <.8 | .18 | 1.6 | <10 | <.08 | 6.2 | <.01 | 1.8 | 1.06 | <2 | <1 | <1 |

08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|
| MAR | |
| 06... | 1.02 |
| APR | |
| 16... | .95 |
| MAY | |
| 15... | .79 |
| AUG | |
| 13... | .28 |

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report:
r -- Value verified by rerun, same method

## 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 $mi^2$.

### WATER-CONTENT RECORDS

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

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 fair except those for estimated daily contents, which are poor. 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 capacity table, used since Apr. 1972, is based on a survey made in Oct. 1966. 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 $mi^2$ in the Denton Creek watershed. Conservation pool storage is 181,100 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 588.0 |
| Crest of spillway | 560.0 |
| Top of conservation pool | 535.0 |
| Lowest intake to wet wells (invert) | 500.5 |
| Invert of two broome-type gates | 475.0 |

COOPERATION.--Capacity table furnished by the U.S. Army Corps of Engineers.

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 contents, 215,600 acre-ft, May 12, elevation, 539.50 ft; minimum contents, 139,100 acre-ft, Jan. 21, elevation, 528.79 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 152300 | 146600 | 141400 | 141900 | 144500 | 144100 | 192300 | 209800 | 186600 | 182700 | 178900 | 169800 |
| 2 | 152000 | 146400 | 141300 | 141800 | 144500 | 144500 | 192700 | 209800 | 186400 | 182800 | 178600 | 169600 |
| 3 | 151800 | 146300 | 141200 | 141500 | 144500 | 144100 | 192400 | 210100 | 186100 | 183500 | 178300 | 169200 |
| 4 | 151500 | 146200 | 141000 | 141300 | 144400 | 143900 | 191900 | 210300 | 185900 | 184200 | 178000 | 168900 |
| 5 | 151400 | 146000 | 140900 | 141300 | 144900 | 143700 | 191300 | 211000 | 185800 | 184600 | 177600 | 168600 |
| 6 | 151000 | 145800 | 140900 | 141300 | 145800 | 143500 | 190900 | 211600 | 187400 | 184700 | 177400 | 168300 |
| 7 | 150600 | 145600 | 140900 | 141100 | e146200 | 143500 | 192900 | 211300 | 188200 | 184700 | 177100 | 167900 |
| 8 | 150300 | 145400 | 140800 | 140900 | e146300 | 143500 | 204700 | 211000 | 188100 | 184700 | 176700 | 167700 |
| 9 | 150100 | 145200 | 140400 | 140800 | 146500 | 143500 | 211500 | 210800 | 187700 | 184600 | 176400 | 167800 |
| 10 | 150000 | 145000 | 140200 | 140700 | 146400 | 143200 | 213500 | 211800 | 187100 | 184400 | 176200 | 167600 |
| 11 | 150200 | 144800 | 140100 | 140700 | 146200 | 143100 | 213200 | 214900 | 186400 | 184200 | 176200 | 167300 |
| 12 | 150200 | 144700 | 140100 | 140600 | 146100 | 143000 | 212500 | 215300 | 185700 | 183900 | 175800 | 167100 |
| 13 | 150800 | 144500 | 140100 | 140400 | 146100 | 142800 | 212400 | 214300 | 185200 | 183900 | 175600 | 166700 |
| 14 | 150600 | 144400 | 140000 | 140300 | 145900 | 142700 | 213800 | 211600 | 185400 | 183800 | 175200 | 166400 |
| 15 | 150500 | 144200 | 139900 | 140100 | 145900 | 142700 | 214500 | 208700 | 185200 | 183500 | 174900 | 166200 |
| 16 | 150100 | 144100 | 141200 | 140000 | 145700 | 142500 | 214700 | 205900 | 185600 | 183300 | 174500 | 165900 |
| 17 | 149900 | 144000 | 142900 | 139900 | 145600 | 142300 | 214900 | 203900 | 185600 | 183200 | 174200 | 165500 |
| 18 | 149600 | 144000 | 143500 | 139700 | 145500 | 142500 | 215100 | 202300 | 185400 | 183100 | 173900 | 165100 |
| 19 | 149400 | 143900 | 143700 | 139700 | 145500 | 146600 | 215000 | 199800 | 185100 | 182900 | 173500 | 165000 |
| 20 | 149200 | 143600 | 143700 | 139400 | 145400 | 177100 | 214700 | 197000 | 184900 | 182600 | 173200 | 164800 |
| 21 | 149100 | 143400 | 143500 | 139300 | 145500 | 190200 | 214400 | 194100 | 184700 | 182300 | 172900 | 164500 |
| 22 | 148900 | 143100 | 143500 | 139200 | 145400 | 192500 | 213900 | 191200 | 184400 | 182000 | 172500 | 164200 |
| 23 | 148700 | 143000 | 143300 | 139400 | 145200 | 193300 | 213400 | 188300 | 184200 | 181800 | 172200 | 163700 |
| 24 | 148600 | 142800 | 143200 | 140000 | 145100 | 193800 | 213000 | 186600 | 183900 | 181400 | 171900 | 163300 |
| 25 | 148300 | 142500 | 143100 | 140100 | 145100 | 194300 | 212300 | 186000 | 183700 | 181200 | 171500 | 163000 |
| 26 | 148000 | 142300 | 142900 | 140000 | 145000 | 193000 | 211600 | 186200 | 183400 | 180800 | 171200 | 162800 |
| 27 | 147800 | 142100 | 142700 | 139900 | 144500 | 191500 | 211000 | 186200 | 183100 | 180400 | 171300 | 162300 |
| 28 | 147400 | 142100 | 142600 | 139900 | 144300 | 190200 | 210700 | 186500 | 182800 | 180000 | 171100 | 162000 |
| 29 | 147200 | 141800 | 142500 | 139800 | --- | 189000 | 210200 | 186800 | 182500 | 179600 | 170800 | 161200 |
| 30 | 147000 | 141600 | 142300 | 139900 | --- | 189300 | 209900 | 186800 | 182400 | 179600 | 170500 | 160300 |
| 31 | 146800 | --- | 142100 | 143100 | --- | 190900 | --- | 186700 | --- | 179300 | 170100 | --- |

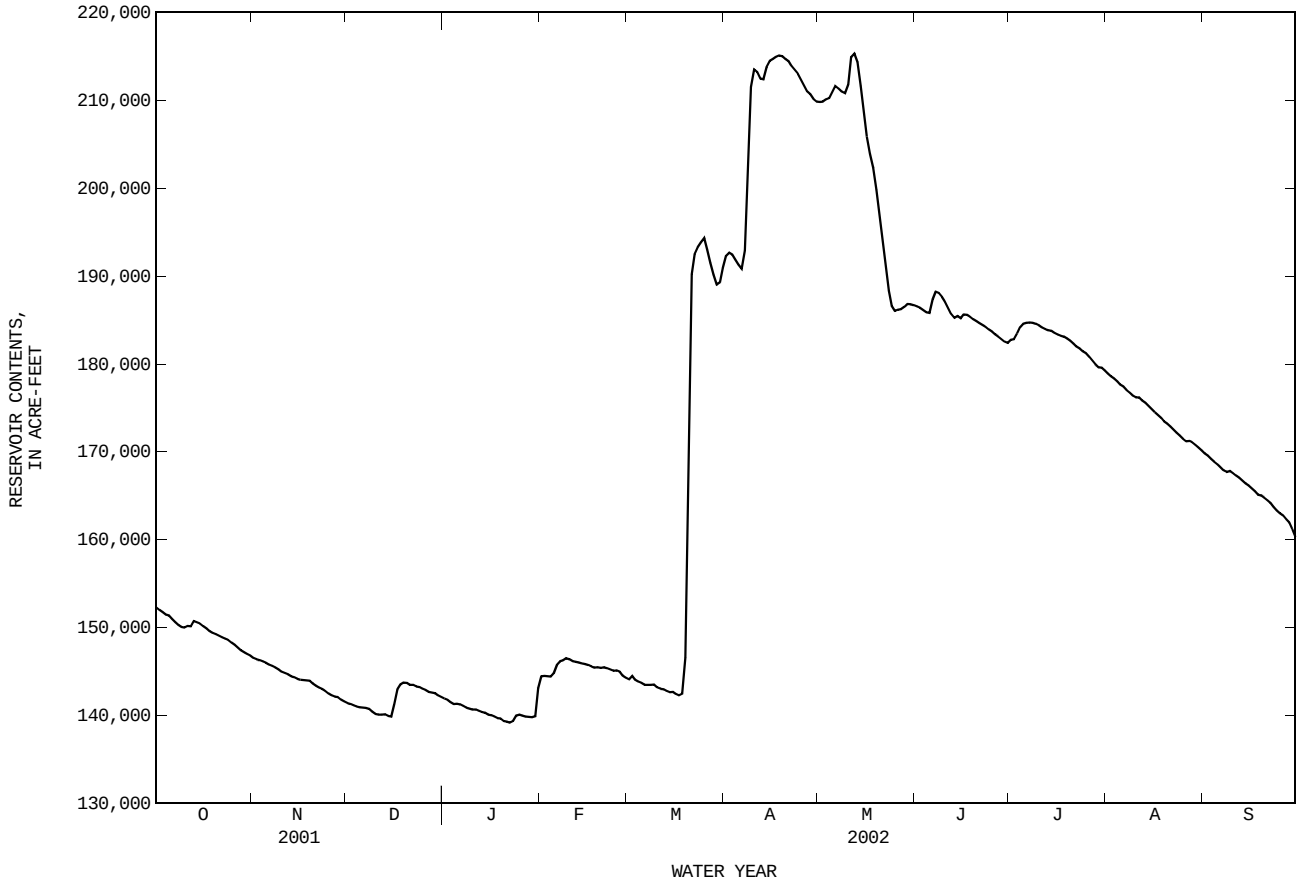
08054500 Grapevine Lake near Grapevine, TX--Continued

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 149700 | 144200 | 141800 | 140500 | 145400 | 161600 | 207800 | 201500 | 185300 | 182700 | 174500 | 165800 |
| MAX | 152300 | 146600 | 143700 | 143100 | 146500 | 194300 | 215100 | 215300 | 188200 | 184700 | 178900 | 169800 |
| MIN | 146800 | 141600 | 139900 | 139200 | 144300 | 142300 | 190900 | 186000 | 182400 | 179300 | 170100 | 160300 |
| (+) | 530.03 | 529.18 | 529.26 | 529.42 | 529.61 | 536.33 | 538.79 | 535.76 | 535.17 | 534.75 | 533.47 | 532.05 |
| (@) | -5700 | -5200 | +500 | +1000 | +1200 | +46600 | +19000 | -23200 | -4300 | -3100 | -9200 | -9800 |

CAL YR 2001 MAX 305300 MIN 139900 (@) -9100
WTR YR 2002 MAX 215300 MIN 139200 (@) +7800

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.



08054500 Grapevine Lake near Grapevine, TX--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is NGVD of 1929.

REMARKS.--Records fair.

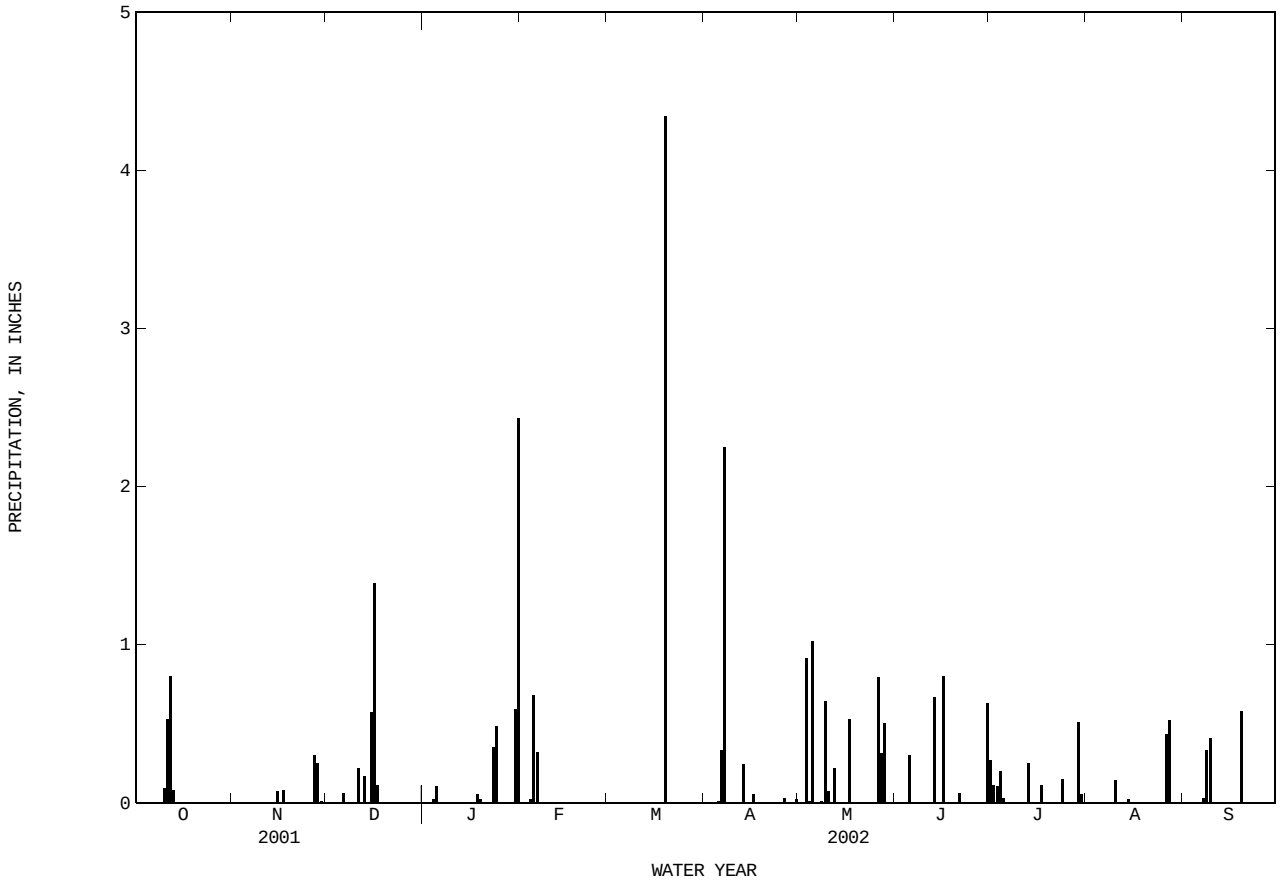
EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.43 inches, Jan. 31.

PRECIPITATION from dcp, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | --- | e0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | --- | e0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | --- | e0.00 | 0.91 | 0.00 | 0.10 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | --- | e0.00 | 0.01 | 0.00 | 0.20 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.10 | 0.68 | e0.00 | 0.01 | 1.02 | 0.30 | 0.03 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.06 | 0.00 | 0.32 | e0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | --- | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.33 |
| 9 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | --- | e0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.41 |
| 10 | 0.09 | 0.00 | 0.00 | 0.00 | e0.00 | --- | e0.00 | 0.07 | 0.00 | 0.00 | 0.14 | 0.00 |
| 11 | 0.53 | 0.00 | 0.22 | 0.00 | e0.00 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.80 | 0.00 | 0.00 | 0.00 | e0.00 | e0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 0.08 | 0.00 | 0.17 | 0.00 | e0.00 | e0.00 | 0.24 | 0.00 | 0.67 | 0.25 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 15 | 0.00 | 0.07 | 0.57 | 0.00 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 1.39 | 0.00 | e0.00 | e0.00 | 0.05 | 0.00 | 0.80 | 0.00 | 0.00 | 0.00 |
| 17 | 0.00 | 0.08 | 0.11 | 0.00 | e0.00 | --- | 0.00 | 0.53 | 0.00 | 0.11 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | 0.05 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0.02 | e0.00 | 4.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | --- | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.35 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.48 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | --- | 0.03 | 0.79 | 0.00 | 0.00 | 0.43 | 0.00 |
| 27 | 0.00 | 0.30 | 0.00 | 0.00 | e0.00 | e0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.52 | 0.00 |
| 28 | 0.00 | 0.25 | 0.00 | 0.00 | e0.00 | e0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.01 | 0.00 | 0.00 | --- | --- | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.59 | --- | --- | 0.02 | 0.00 | 0.63 | 0.05 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | 2.43 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 1.50 | 0.71 | 2.52 | 4.04 | 1.02 | --- | 2.93 | 5.01 | 2.46 | 1.78 | 1.11 | 1.35 |

e Estimated

08054500 Grapevine Lake near Grapevine, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1969 to Aug. 1986, Oct. 1997 to current year.
BIOCHEMICAL DATA: Oct. 1969 to Aug. 1986, Oct. 1997 to current year.
PESTICIDE DATA: Sept. 1999 to current year.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

| Date | Time | RESER-VOIR STORAGE (AC-FT) (00054) | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1153 | 144000 | .61 | 1.00 | 365 | 8.4 | 9.0 | 11.0 | 97 | 1 | E1k | 130 | 19 |
| MAR | | | | | | | | | | | | | |
| 06-06 | 1153 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | 1157 | -- | -- | 10.0 | 365 | 8.3 | 9.0 | 10.9 | 97 | -- | -- | -- | -- |
| 06... | 1202 | -- | -- | 20.0 | 366 | 8.4 | 8.5 | 11.0 | 96 | -- | -- | -- | -- |
| 06... | 1206 | -- | -- | 30.0 | 366 | 8.4 | 8.5 | 11.0 | 96 | -- | -- | -- | -- |
| 06... | 1210 | -- | -- | 40.0 | 366 | 8.4 | 8.5 | 11.0 | 96 | -- | -- | -- | -- |
| 06... | 1215 | -- | -- | 49.0 | 367 | 8.3 | 8.5 | 10.8 | 94 | -- | -- | 130 | 15 |
| MAY | | | | | | | | | | | | | |
| 15... | 1015 | 209000 | .76 | 1.00 | 344 | 8.0 | 22.0 | 7.3 | 85 | E2k | E2k | 130 | 20 |
| MAY | | | | | | | | | | | | | |
| 15-15 | 1015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 1019 | -- | -- | 10.0 | 345 | 8.0 | 22.0 | 7.3 | 85 | -- | -- | -- | -- |
| 15... | 1024 | -- | -- | 20.0 | 345 | 8.0 | 22.0 | 7.3 | 85 | -- | -- | -- | -- |
| 15... | 1029 | -- | -- | 30.0 | 345 | 8.0 | 22.0 | 7.3 | 85 | -- | -- | -- | -- |
| 15... | 1033 | -- | -- | 40.0 | 345 | 8.0 | 22.0 | 7.2 | 84 | -- | -- | -- | -- |
| 15... | 1037 | -- | -- | 50.0 | 346 | 7.6 | 20.5 | 4.9 | 55 | -- | -- | -- | -- |
| 15... | 1042 | -- | -- | 57.0 | 344 | 7.4 | 19.5 | 3.9 | 43 | -- | -- | 130 | 20 |
| AUG | | | | | | | | | | | | | |
| 14... | 1152 | 175000 | 1.22 | 1.00 | 340 | 7.5 | 28.0 | 3.9 | 51 | -- | -- | 120 | 13 |
| AUG | | | | | | | | | | | | | |
| 14-14 | 1152 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 1156 | -- | -- | 10.0 | 340 | 7.5 | 28.0 | 3.8 | 50 | -- | -- | -- | -- |
| 14... | 1200 | -- | -- | 20.0 | 343 | 7.4 | 27.5 | 3.2 | 42 | -- | -- | -- | -- |
| 14... | 1204 | -- | -- | 30.0 | 346 | 7.2 | 27.5 | 1.9 | 25 | -- | -- | -- | -- |
| 14... | 1209 | -- | -- | 40.0 | 371 | 7.1 | 25.0 | .2 | 2 | -- | -- | -- | -- |
| 14... | 1214 | -- | -- | 52.0 | 374 | 7.0 | 24.5 | .2 | 2 | -- | -- | 130 | 2 |

325822097030401 -- Grapevine Lk Site AC

| Date | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 42.4 | 5.94 | 21.0 | .8 | 25 | 4.21 | 1 | 134 | 115 | 35.3 | 22.5 | .3 | 2.5 |
| MAR | | | | | | | | | | | | | |
| 06-06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | 42.3 | 5.95 | 21.2 | .8 | 25 | 4.13 | 2 | 136 | 112 | 35.2 | 22.8 | .3 | 2.4 |
| MAY | | | | | | | | | | | | | |
| 15... | 42.8 | 5.02 | 17.7 | .7 | 22 | 4.04 | 1 | 129 | 107 | 28.7 | 18.6 | .3 | 4.3 |
| MAY | | | | | | | | | | | | | |
| 15-15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 42.8 | 5.14 | 18.2 | .7 | 23 | 4.02 | <1 | 132 | 109 | 29.2 | 18.5 | .3 | 5.3 |
| AUG | | | | | | | | | | | | | |
| 14... | 37.8 | 5.28 | 18.1 | .7 | 24 | 4.97 | <1 | 126 | 104 | 27.2 | 20.5 | .3 | 4.2 |
| AUG | | | | | | | | | | | | | |
| 14-14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 45.3 | 5.29 | 17.5 | .7 | 21 | 5.00 | 1 | 160 | 132 | 19.8 | 19.2 | .2 | 7.9 |

08054500 Grapevine Lake near Grapevine, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

| Date | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | BENZENE TOTAL (UG/L) (34030) | ETHYL-BENZENE TOTAL (UG/L) (34371) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 202 | E.004 | .32 | <.04 | -- | .35 | .005 | <.02 | -- | <10 | <2.0 | -- | -- |
| MAR | | | | | | | | | | | | | |
| 06-06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | 205 | E.004 | .32 | <.04 | -- | .33 | .005 | <.02 | -- | <10 | <2.0 | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15... | 188 | <.008 | .58 | <.04 | -- | .37 | .022 | E.01 | -- | <10 | <2.0 | .2 | .1 |
| MAY | | | | | | | | | | | | | |
| 15-15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | <.008 | .58 | <.04 | -- | .38 | .022 | E.01 | -- | <10 | E1.2n | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 192 | <.008 | .70 | <.04 | -- | .32 | .038 | .03 | .095 | <10 | E1.9b | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14... | 180 | <.008 | <.05 | <.04 | -- | .33 | .005 | <.02 | -- | <10 | E2.9 | <.2 | <.2 |
| AUG | | | | | | | | | | | | | |
| 14-14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | <.008 | <.05 | E.03 | -- | .36 | .006 | <.02 | -- | E7 | 19.3 | -- | -- |
| 14... | -- | <.008 | <.05 | .06 | .34 | .41 | .006 | <.02 | -- | 15 | 135 | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 203 | <.008 | <.05 | .61 | .37 | .98 | .113 | .10 | .304 | 517 | 1470 | -- | -- |

325822097030401 -- Grapevine Lk Site AC

| Date | TOLUENE TOTAL (UG/L) (34010) | XYLENE WATER UNFLTRD REC (UG/L) (81551) | METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 06-06 | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | .258 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15... | .6 | .6 | 3.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15-15 | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | .482 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14... | <.2 | <.2 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14-14 | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | .450 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

| Date | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 06-06 | <.005 | <.006 | <.018 | <.003 | E.020 | .008 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15-15 | <.005 | <.006 | <.018 | <.003 | E.044 | .031 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14-14 | <.005 | <.006 | <.018 | <.003 | E.051 | .009 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

325822097030401 -- Grapevine Lk Site AC

| Date | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 06-06 | <.035 | <.027 | E.010n | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 15-15 | <.035 | <.027 | .022 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 14-14 | <.035 | <.027 | .031 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08054500 Grapevine Lake near Grapevine, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325822097030401 -- Grapevine Lk Site AC

| Date | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 06-06 | <.010 | <.011 | <.02 | <.004 | .149 | E.01n | <.034 | <.02 | <.005 | <.002 | <.009 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 15-15 | <.010 | <.011 | <.02 | <.004 | .239 | E.05 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 14-14 | <.010 | <.011 | <.02 | <.004 | .213 | .03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

325751097033001 -- Grapevine Lk Site AR

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 06... | 1230 | 1.00 | 365 | 8.3 | 9.0 | 10.9 | 97 |
| 06... | 1233 | 10.0 | 365 | 8.3 | 8.5 | 10.9 | 95 |
| 06... | 1237 | 20.0 | 365 | 8.3 | 8.5 | 11.0 | 96 |
| 06... | 1240 | 30.0 | 365 | 8.6 | 8.5 | 10.9 | 95 |
| 06... | 1244 | 37.0 | 366 | 8.7 | 8.5 | 10.9 | 95 |
| MAY | | | | | | | |
| 15... | 1054 | 1.00 | 344 | 8.0 | 22.0 | 7.3 | 85 |
| 15... | 1056 | 10.0 | 344 | 8.0 | 22.0 | 7.2 | 84 |
| 15... | 1058 | 20.0 | 344 | 8.0 | 22.0 | 7.2 | 84 |
| 15... | 1100 | 30.0 | 345 | 8.0 | 22.0 | 7.2 | 84 |
| 15... | 1103 | 40.0 | 345 | 7.9 | 21.5 | 6.9 | 80 |
| 15... | 1106 | 48.0 | 344 | 7.8 | 21.5 | 6.3 | 73 |
| AUG | | | | | | | |
| 14... | 1226 | 1.00 | 340 | 7.5 | 28.0 | 3.7 | 48 |
| 14... | 1229 | 10.0 | 341 | 7.4 | 28.0 | 3.3 | 43 |
| 14... | 1232 | 20.0 | 342 | 7.4 | 27.5 | 2.8 | 36 |
| 14... | 1235 | 30.0 | 345 | 7.3 | 27.5 | 2.6 | 34 |
| 14... | 1238 | 42.0 | 373 | 7.1 | 25.0 | .2 | 2 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325930097053801 -- Grapevine Lk Site BC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1303 | .61 | 1.00 | 364 | 8.4 | 9.0 | 11.2 | 99 | 1 | E4k | 130 | 17 | 42.0 |
| 06... | 1307 | -- | 10.0 | 365 | 8.4 | 8.5 | 11.2 | 98 | -- | -- | -- | -- | -- |
| 06... | 1312 | -- | 20.0 | 364 | 8.4 | 8.5 | 11.1 | 97 | -- | -- | -- | -- | -- |
| 06... | 1317 | -- | 30.0 | 365 | 8.4 | 8.5 | 11.1 | 97 | -- | -- | -- | -- | -- |
| 06... | 1322 | -- | 42.0 | 365 | 8.4 | 8.5 | 11.1 | 97 | -- | -- | 130 | 33 | 41.5 |
| MAY | | | | | | | | | | | | | |
| 15... | 1126 | .73 | 1.00 | 348 | 8.2 | 22.5 | 7.5 | 88 | <1k | E3k | 130 | 18 | 43.9 |
| 15... | 1131 | -- | 10.0 | 347 | 8.2 | 22.5 | 7.5 | 88 | -- | -- | -- | -- | -- |
| 15... | 1135 | -- | 20.0 | 348 | 8.1 | 22.5 | 7.5 | 88 | -- | -- | -- | -- | -- |
| 15... | 1139 | -- | 30.0 | 347 | 8.1 | 22.5 | 7.6 | 89 | -- | -- | -- | -- | -- |
| 15... | 1143 | -- | 40.0 | 346 | 8.1 | 22.5 | 7.5 | 88 | -- | -- | -- | -- | -- |
| 15... | 1148 | -- | 50.0 | 349 | 7.4 | 20.5 | 3.2 | 36 | -- | -- | 130 | 19 | 43.4 |
| AUG | | | | | | | | | | | | | |
| 14... | 1256 | 1.16 | 1.00 | 328 | 8.1 | 29.0 | 5.1 | 68 | -- | -- | 110 | 17 | 36.7 |
| 14... | 1301 | -- | 10.0 | 329 | 8.0 | 29.0 | 4.8 | 64 | -- | -- | -- | -- | -- |
| 14... | 1306 | -- | 20.0 | 329 | 7.9 | 29.0 | 4.8 | 64 | -- | -- | -- | -- | -- |
| 14... | 1312 | -- | 30.0 | 332 | 7.7 | 28.5 | 4.2 | 56 | -- | -- | -- | -- | -- |
| 14... | 1318 | -- | 43.0 | 371 | 7.0 | 25.5 | .2 | 3 | -- | -- | 130 | -- | 44.8 |

325930097053801 -- Grapevine Lk Site BC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 5.90 | 21.1 | .8 | 25 | 4.19 | 2 | 133 | 112 | 35.5 | 22.9 | .3 | 2.3 | 203 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | 5.84 | 21.0 | .8 | 26 | 4.19 | <1 | 116 | 116 | 35.5 | 22.0 | .3 | 2.1 | 191 |
| MAY | | | | | | | | | | | | | |
| 15... | 5.09 | 17.9 | .7 | 22 | 4.10 | 1 | 136 | 112 | 28.6 | 18.8 | .2 | 3.9 | 192 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 5.15 | 17.9 | .7 | 22 | 4.29 | <1 | E134 | 110 | 28.5 | 18.7 | .3 | 5.6 | 193 |
| AUG | | | | | | | | | | | | | |
| 14... | 5.58 | 19.8 | .8 | 26 | 5.02 | 1 | 116 | 97 | 27.6 | 21.3 | .3 | 4.0 | 178 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 5.38 | 17.6 | .7 | 21 | 4.96 | 1 | 162 | 133 | 17.5 | 20.2 | .2 | 8.3 | 204 |

325930097053801 -- Grapevine Lk Site BC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 06... | -- | E.004 | .30 | <.04 | -- | .33 | .005 | <.02 | -- | <10 | <2.0 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06... | -- | E.004 | .29 | <.04 | -- | .30 | .007 | <.02 | -- | <10 | <2.0 |
| MAY | | | | | | | | | | | |
| 15... | -- | <.008 | .51 | <.04 | -- | .37 | .016 | E.01 | -- | <10 | <2.0 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | <.008 | .53 | <.04 | -- | .33 | .016 | <.02 | -- | <10 | <2.0 |
| 15... | .63 | .031 | .66 | E.02 | -- | .39 | .039 | .03 | .095 | <10 | E3.0b |
| AUG | | | | | | | | | | | |
| 14... | -- | <.008 | <.05 | <.04 | -- | .32 | .005 | <.02 | -- | <10 | E1.2 |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | <.008 | <.05 | <.04 | -- | .32 | .006 | <.02 | -- | <10 | E2.0 |
| 14... | -- | <.008 | <.05 | <.04 | -- | .33 | .006 | <.02 | -- | <10 | 21.3 |
| 14... | -- | <.008 | <.05 | 1.03 | .41 | 1.4 | .19 | .19 | .586 | 923 | 1230 |

08054500 Grapevine Lake near Grapevine, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

325933097081401 -- Grapevine Lk Site CC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1347 | 1.00 | 367 | 8.5 | 10.0 | 11.6 | 105 | -- | E.004 | .29 | <.04 | .33 | .004 |
| 06... | 1352 | 6.00 | 377 | 8.5 | 10.0 | 11.5 | 104 | -- | <.008 | .29 | <.04 | .31 | .006 |
| MAY | | | | | | | | | | | | | |
| 15... | 1208 | 1.00 | 359 | 8.5 | 23.5 | 9.2 | 110 | .25 | .011 | .27 | <.04 | .38 | .008 |
| 15... | 1214 | 12.0 | 357 | 8.3 | 23.0 | 7.7 | 91 | .36 | .009 | .37 | <.04 | .35 | .007 |
| AUG | | | | | | | | | | | | | |
| 14... | 1333 | 1.00 | 324 | 8.1 | 29.0 | 5.5 | 73 | -- | <.008 | <.05 | <.04 | .33 | .007 |
| 14... | 1338 | 10.0 | 324 | 8.0 | 29.0 | 5.2 | 69 | -- | <.008 | <.05 | <.04 | .33 | .006 |

325933097081401 -- Grapevine Lk Site CC

| Date | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|
| MAR | | | |
| 06... | <.02 | <10 | E2.0b |
| 06... | <.02 | <10 | 3.2 |
| MAY | | | |
| 15... | <.02 | E6 | E1.7b |
| 15... | <.02 | <10 | E1.2n |
| AUG | | | |
| 14... | <.02 | <10 | <2.0 |
| 14... | <.02 | <10 | <2.0 |

330106097094601 -- Grapevine Lk Site DC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1412 | 1.00 | 389 | 8.5 | 10.5 | 11.6 | 106 | -- | E.004 | .29 | <.04 | .32 | .005 |
| 06... | 1417 | 7.00 | 387 | 8.5 | 10.5 | 11.5 | 106 | -- | <.008 | .23 | <.04 | .31 | .006 |
| MAY | | | | | | | | | | | | | |
| 15... | 1238 | 1.00 | 364 | 8.1 | 23.0 | 7.1 | 84 | .35 | .023 | .38 | E.02 | .43 | .018 |
| 15... | 1243 | 10.0 | 358 | 8.1 | 23.0 | 7.1 | 84 | -- | -- | -- | -- | -- | -- |
| 15... | 1248 | 15.0 | 356 | 8.1 | 23.0 | 7.1 | 84 | .38 | .021 | .40 | <.04 | .42 | .014 |
| AUG | | | | | | | | | | | | | |
| 14... | 1357 | 1.00 | 326 | 8.4 | 29.5 | 7.1 | 96 | -- | <.008 | <.05 | <.04 | .35 | .009 |
| 14... | 1402 | 10.0 | 331 | 8.1 | 29.5 | 5.3 | 71 | -- | <.008 | <.05 | <.04 | .34 | .006 |

330106097094601 -- Grapevine Lk Site DC

| Date | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|
| MAR | | | | |
| 06... | <.02 | -- | <10 | E2.3b |
| 06... | .02 | .074 | <10 | E1.0n |
| MAY | | | | |
| 15... | E.01 | -- | <10 | E1.9b |
| 15... | -- | -- | -- | -- |
| 15... | <.02 | -- | <10 | E2.5b |
| AUG | | | | |
| 14... | <.02 | -- | <10 | <2.0 |
| 14... | <.02 | -- | <10 | <2.0 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

330207097103701 -- Grapevine Lk Site EC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1438 | .18 | 1.00 | 401 | 8.5 | 12.0 | 11.5 | 109 | E2k | E13k | 140 | 19 | 45.5 |
| 06... | 1449 | -- | 4.00 | 406 | 8.5 | 12.0 | 11.3 | 107 | -- | -- | 140 | 18 | 46.0 |
| MAY | | | | | | | | | | | | | |
| 15... | 1311 | .24 | 1.00 | 351 | 7.9 | 23.0 | 8.0 | 95 | E20k | E16k | 140 | 10 | 48.1 |
| 15... | 1317 | -- | 9.00 | 353 | 8.0 | 23.5 | 8.1 | 97 | -- | -- | 140 | 19 | 48.1 |
| AUG | | | | | | | | | | | | | |
| 14... | 1419 | .21 | 1.00 | 332 | 8.4 | 29.5 | 6.9 | 93 | -- | -- | 110 | 14 | 34.2 |
| 14... | 1425 | -- | 9.00 | 330 | 8.2 | 29.0 | 6.7 | 89 | -- | -- | 110 | 15 | 33.9 |

330207097103701 -- Grapevine Lk Site EC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 6.34 | 24.0 | .9 | 27 | 4.09 | 2 | 142 | 123 | 38.6 | 25.2 | .3 | 1.9 | 220 |
| 06... | 6.40 | 24.2 | .9 | 26 | 4.13 | 2 | 145 | 124 | 39.0 | 25.4 | .3 | 2.0 | 223 |
| MAY | | | | | | | | | | | | | |
| 15... | 4.79 | 15.6 | .6 | 19 | 4.16 | 1 | 156 | 130 | 23.9 | 17.1 | .3 | 4.6 | 198 |
| 15... | 4.84 | 16.0 | .6 | 19 | 4.18 | <1 | 148 | 122 | 24.6 | 17.3 | .3 | 4.3 | 194 |
| AUG | | | | | | | | | | | | | |
| 14... | 5.45 | 20.0 | .8 | 28 | 5.18 | 2 | 110 | 94 | 29.7 | 23.3 | .3 | 5.4 | 180 |
| 14... | 5.41 | 19.3 | .8 | 27 | 5.08 | 1 | 110 | 91 | 29.2 | 21.9 | .3 | 5.2 | 175 |

330207097103701 -- Grapevine Lk Site EC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | |
| 06... | -- | E.004 | .39 | <.04 | -- | .32 | .008 | <.02 | <10 | E2.6b |
| 06... | -- | E.006 | .44 | <.04 | -- | .33 | .007 | <.02 | <10 | E1.9b |
| MAY | | | | | | | | | | |
| 15... | .38 | .027 | .40 | .06 | .38 | .44 | .023 | <.02 | <10 | 10.6 |
| 15... | .37 | .027 | .40 | .05 | .42 | .48 | .022 | E.01 | <10 | 10.8 |
| AUG | | | | | | | | | | |
| 14... | -- | <.008 | <.05 | <.04 | -- | .34 | .008 | <.02 | <10 | <2.0 |
| 14... | -- | <.008 | <.05 | <.04 | -- | .34 | .006 | <.02 | <10 | <2.0 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
k -- Counts outside acceptable range
n -- Below the NDV

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## 08055000 Denton Creek near Grapevine, TX

LOCATION.--Lat 32°59'13", long 97°00'45", Denton County, Hydrologic Unit 12030104, over center of channel 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 $mi^2$.

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1997 to current year.
BIOCHEMICAL DATA: Oct. 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 1340 | 63 | 373 | 8.0 | 9.0 | 11.5 | 102 | 120 | 12 | 40.5 | 5.72 | 20.3 | .8 |
| MAY | | | | | | | | | | | | | |
| 15... | 1000 | -- | 350 | 8.1 | 21.5 | 9.5 | 109 | 130 | 18 | 42.6 | 5.09 | 18.5 | .7 |
| AUG | | | | | | | | | | | | | |
| 14... | 1200 | 99 | 354 | 7.4 | 27.0 | 5.7 | 72 | 120 | 10 | 40.6 | 5.39 | 20.0 | .8 |

| Date | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | 25 | 4.01 | 2 | 134 | 112 | 35.5 | 22.2 | .3 | 2.08 | 218 | 200 | <10 | E.004 |
| MAY | | | | | | | | | | | | | |
| 15... | 23 | 4.13 | <1 | 133 | 110 | 28.9 | 18.2 | .2 | 4.54 | 198 | 190 | <10 | <.008 |
| AUG | | | | | | | | | | | | | |
| 14... | 25 | 4.83 | <1 | 138 | 114 | 25.5 | 21.0 | .3 | 5.19 | 198 | 191 | <10 | E.005 |

| Date | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | .31 | <.04 | -- | .29 | .006 | <.02 | -- | 6.5 | <1 | .23 | M | 52 | <.06 |
| MAY | | | | | | | | | | | | | |
| 15... | .59 | <.04 | -- | .34 | .026 | E.01 | -- | 5.4 | <1 | .16 | 2 | 53 | <.06 |
| AUG | | | | | | | | | | | | | |
| 14... | E.03 | .19 | .39 | .58 | .030 | .02 | .061 | 5.4 | 2 | .06 | 5 | 50 | <.06 |

| Date | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 06... | <.04 | <.8 | .17 | 1.5 | <10 | E.06 | 1.1 | E.01n | 4.0 | 1.32 | <2 | <1 | 2 |
| MAY | | | | | | | | | | | | | |
| 15... | <.04 | <.8 | .17 | 1.3 | <10 | <.08 | .7 | <.01 | 1.8 | 1.87 | <2 | <1 | <1 |
| AUG | | | | | | | | | | | | | |
| 14... | <.04 | <.8 | .22 | .7 | 17 | E.07 | 426 | <.01 | 1.8 | .99 | <2 | <1 | 2 |

08055000 Denton Creek near Grapevine, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|
| MAR | |
| 06... | 1.25 |
| MAY | |
| 15... | 1.08 |
| AUG | |
| 14... | .77 |

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report:
n -- Below the NDV

## 08055500 Elm Fork Trinity River near Carrollton, TX

LOCATION.--Lat 32°57′57", long 96°56′39", Dallas County, Hydrologic Unit 12030103, on Sandy Lake Road 350 ft upstream on right bank at TXU Electric Co. pump station. Prior to July 7, 1999 located near left bank at downstream side of bridge on Sandy Lake Road, 40 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 $mi^2$

### WATER-DISCHARGE RECORDS

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".

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 present site and 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 present site and at datum 2.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good, except those for Sept. 10-21, 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 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 $ft^3/s$ (592,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1908-54).--Maximum gage height, about 19 ft May 25, 1908, present site and datum, from information by local resident; estimated discharge, 145,000 $ft^3/s$, 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 $ft^3/s$; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as flood of May 25, 1908.

DISCHARGE FROM DCP, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 180 | 169 | 101 | 62 | 250 | 106 | 2030 | 4220 | 331 | 539 | 202 | 177 |
| 2 | 254 | 137 | 90 | 56 | 276 | 214 | 3880 | 4200 | 319 | 503 | 172 | 163 |
| 3 | 170 | 172 | 78 | 98 | 100 | 132 | 4120 | 4470 | 237 | 459 | 179 | 117 |
| 4 | 179 | 201 | 73 | 58 | 77 | 80 | 4280 | 4320 | 169 | 123 | 173 | 107 |
| 5 | 188 | 173 | 62 | 84 | 623 | 72 | 4590 | 4490 | 177 | 183 | 195 | 142 |
| 6 | 154 | 122 | 260 | 98 | 513 | 98 | 4720 | 3660 | 226 | 104 | 178 | 131 |
| 7 | 141 | 164 | 89 | 87 | 185 | 95 | 6980 | 3270 | 586 | 2.8 | 193 | 163 |
| 8 | 98 | 106 | 66 | 67 | 88 | 119 | 3060 | 1660 | 996 | 146 | 213 | 328 |
| 9 | 112 | 127 | 73 | 58 | 14 | 155 | 1180 | 589 | 1040 | 123 | 172 | 279 |
| 10 | 104 | 130 | 78 | 111 | 3.8 | 127 | 3080 | 1510 | 960 | 112 | 288 | 141 |
| 11 | 159 | 143 | 69 | 156 | 90 | 110 | 4770 | 2590 | 870 | 163 | 276 | 137 |
| 12 | 123 | 113 | 162 | 160 | 82 | 120 | 4960 | 2790 | 537 | 328 | 186 | 139 |
| 13 | 781 | 93 | 157 | 114 | 25 | 67 | 4880 | 3210 | 526 | 252 | 181 | 105 |
| 14 | 145 | 146 | 148 | 92 | 3.4 | 101 | 3260 | 3230 | 302 | 182 | 183 | 114 |
| 15 | 120 | 200 | 95 | 59 | 0.00 | 127 | 3680 | 3250 | 127 | 179 | 196 | 128 |
| 16 | 154 | 154 | 1690 | 107 | 0.00 | 118 | 4150 | 3210 | 471 | 204 | 137 | 142 |
| 17 | 142 | 143 | 161 | 124 | 0.00 | 98 | 4310 | 3590 | 214 | 188 | 137 | 135 |
| 18 | 141 | 151 | 96 | 136 | 141 | 649 | 4230 | 3340 | 201 | 197 | 234 | 102 |
| 19 | 154 | 150 | 94 | 123 | 514 | 5900 | 4220 | 3120 | 192 | 150 | 208 | 178 |
| 20 | 116 | 109 | 78 | 139 | 31 | 2690 | 4220 | 3100 | 190 | 159 | 234 | 182 |
| 21 | 121 | 98 | 133 | 216 | 0.59 | 491 | 4210 | 3090 | 164 | 164 | 174 | 135 |
| 22 | 73 | 133 | 90 | 288 | 0.00 | 1710 | 4250 | 2690 | 172 | 126 | 203 | 142 |
| 23 | 92 | 140 | 60 | 279 | 0.17 | 2500 | 4560 | 1720 | 135 | 128 | 168 | 80 |
| 24 | 164 | 147 | 69 | 648 | 8.1 | 2540 | 4840 | 1130 | 156 | 143 | 131 | 59 |
| 25 | 124 | 128 | 72 | 109 | 56 | 2970 | 4910 | 592 | 175 | 140 | 170 | 133 |
| 26 | 110 | 172 | 109 | 137 | 61 | 3700 | 4990 | 542 | 197 | 105 | 216 | 143 |
| 27 | 126 | 219 | 64 | 119 | 78 | 3510 | 4720 | 360 | 206 | 144 | 320 | 153 |
| 28 | 122 | 290 | 74 | 42 | 82 | 3380 | 4520 | 448 | 219 | 208 | 219 | 172 |
| 29 | 109 | 122 | 103 | 39 | --- | 3660 | 4460 | 636 | 279 | 245 | 151 | 157 |
| 30 | 159 | 83 | 106 | 19 | --- | 4010 | 4330 | 386 | 275 | 365 | 152 | 174 |
| 31 | 154 | --- | 62 | 3600 | --- | 1050 | --- | 336 | --- | 234 | 149 | --- |
| TOTAL | 4969 | 4435 | 4662 | 7485 | 3302.06 | 40699 | 126390 | 75749 | 10649 | 6298.8 | 5990 | 4458 |
| MEAN | 160.3 | 147.8 | 150.4 | 241.5 | 117.9 | 1313 | 4213 | 2444 | 355.0 | 203.2 | 193.2 | 148.6 |
| MAX | 781 | 290 | 1690 | 3600 | 623 | 5900 | 6980 | 4490 | 1040 | 539 | 320 | 328 |
| MIN | 73 | 83 | 60 | 19 | 0.00 | 67 | 1180 | 336 | 127 | 2.8 | 131 | 59 |
| AC-FT | 9860 | 8800 | 9250 | 14850 | 6550 | 80730 | 250700 | 150200 | 21120 | 12490 | 11880 | 8840 |

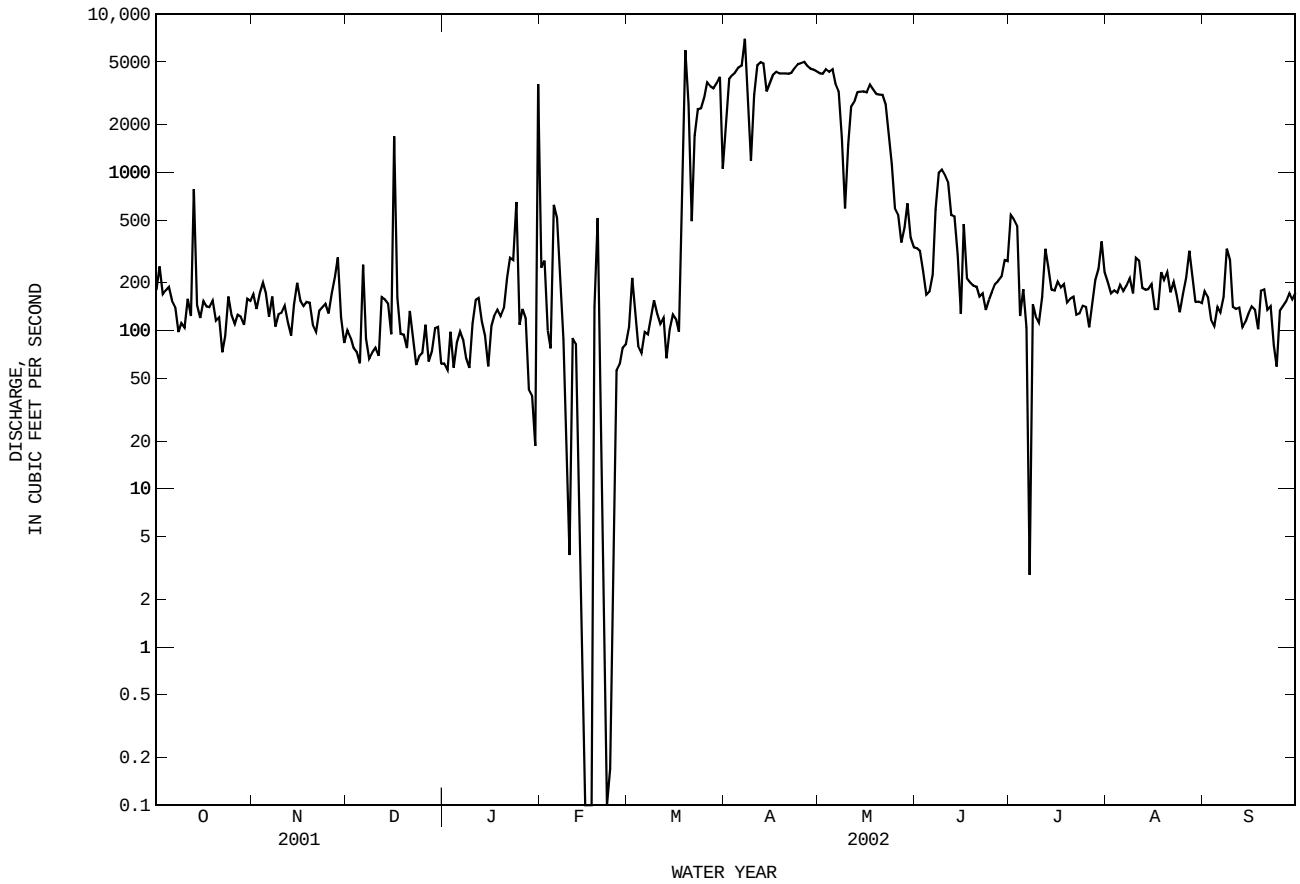
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 407.4 | 715.9 | 798.4 | 609.2 | 743.4 | 1121 | 1128 | 1569 | 1569 | 895.9 | 507.3 | 286.1 |
| MAX | 3554 | 8830 | 6785 | 6614 | 5868 | 5655 | 4782 | 10920 | 6757 | 6224 | 6003 | 3406 |
| (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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1955 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 365286.9 | | 295086.86 | | | |
| ANNUAL MEAN | 1001 | | 808.5 | | 862.8 | |
| HIGHEST ANNUAL MEAN | | | | | 4289 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 76.0 | 1978 |
| HIGHEST DAILY MEAN | 5760 | Mar 24 | 6980 | Apr 7 | 25300 | May 5 1990 |
| LOWEST DAILY MEAN | 0.00 | Feb 18 | 0.00 | Feb 15 | 0.00 | Dec 2 1954 |
| ANNUAL SEVEN-DAY MINIMUM | 36 | Jan 7 | 22 | Feb 20 | 0.00 | Jan 7 1959 |
| MAXIMUM PEAK FLOW | | | 9990 | Mar 19 | 33000 | Sep 21 1964 |
| MAXIMUM PEAK STAGE | | | 9.69 | Mar 19 | 13.48 | May 5 1990 |
| ANNUAL RUNOFF (AC-FT) | 724500 | | 585300 | | 625000 | |
| 10 PERCENT EXCEEDS | 4200 | | 3590 | | 3840 | |
| 50 PERCENT EXCEEDS | 197 | | 163 | | 149 | |
| 90 PERCENT EXCEEDS | 73 | | 73 | | 38 | |

z Period of regulated streamflow.



08055500 Elm Fork Trinity River near Carrollton, TX--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemtry. Datum of gage is 431.40 ft above NGVD of 1929.

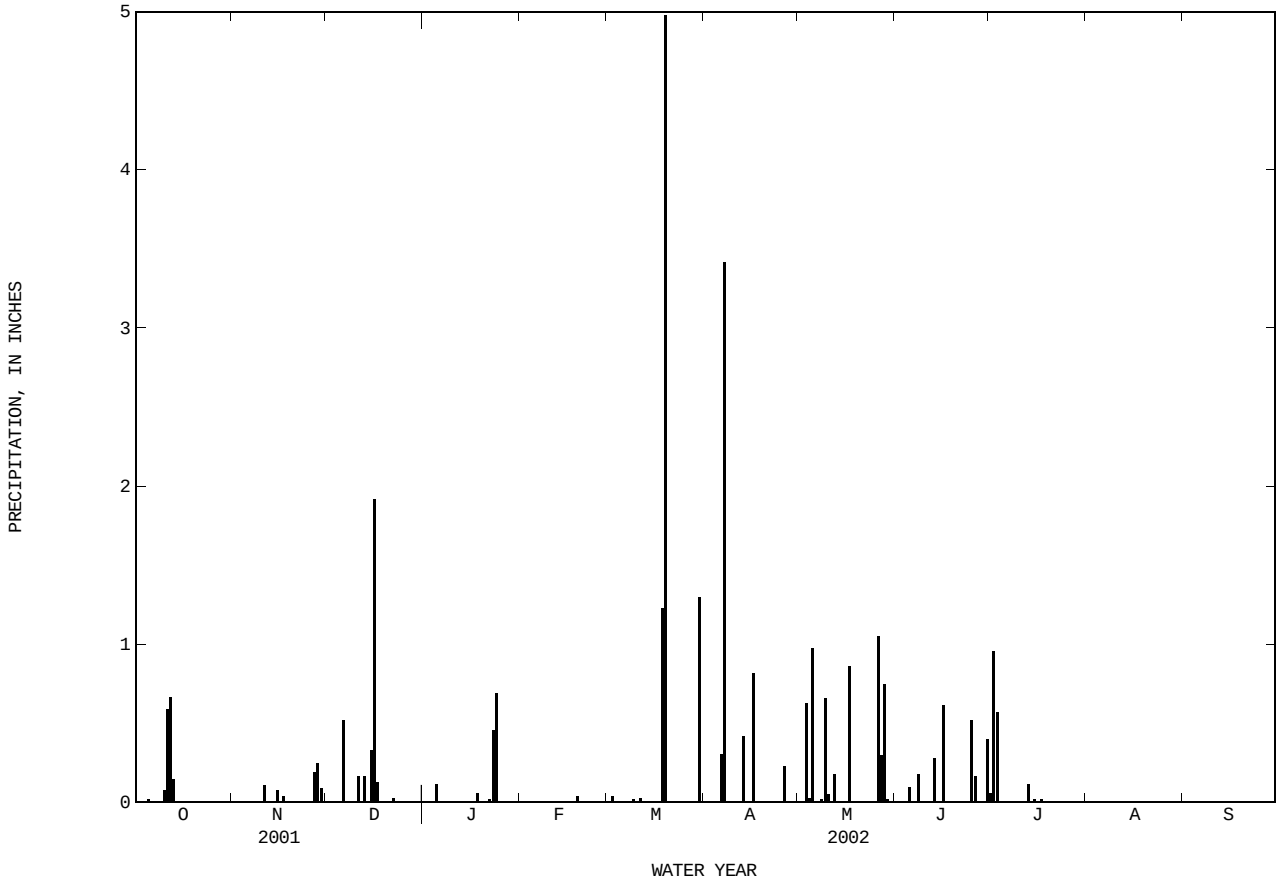
REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 4.985 inches, Mar. 19.

PRECIPITATION DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.04 | 0.00 | 0.00 | 0.00 | 0.96 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.01 | 0.00 | 0.63 | 0.00 | 0.57 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.01 | --- | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.02 | 0.00 | 0.01 | 0.12 | --- | 0.00 | 0.01 | 0.98 | 0.10 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.52 | 0.00 | --- | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.18 | 0.01 | 0.00 | 0.00 |
| 9 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 0.59 | 0.11 | 0.17 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.67 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 0.15 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.28 | 0.12 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 0.00 | 0.08 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 1.92 | 0.00 | 0.00 | 0.00 | 0.82 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 |
| 17 | 0.00 | 0.04 | 0.13 | 0.00 | 0.00 | 0.00 | 0.01 | 0.86 | 0.00 | 0.02 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 1.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 4.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.01 | 0.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.01 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 1.05 | 0.17 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.09 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | --- | --- | 1.30 | 0.01 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | --- | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 1.52 | 0.77 | 3.29 | --- | --- | 7.62 | 5.23 | 5.53 | 2.27 | 1.77 | 0.01 | 0.00 |

08055500 Elm Fork Trinity River near Carrollton, TX--Continued



## 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 $mi^2$.

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 estimated daily elevations, which are fair. Water elevation is regulated by a concrete weir at gage.

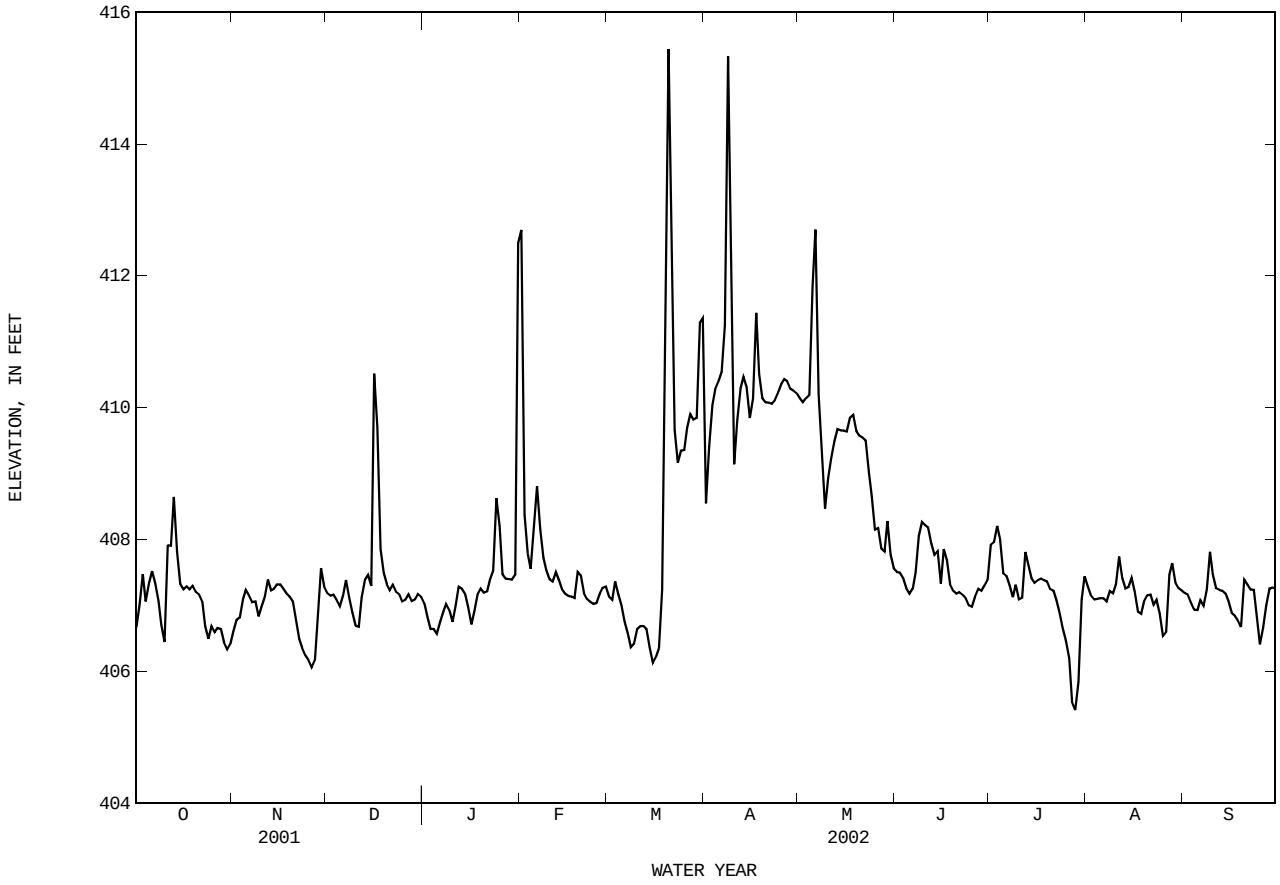
COOPERATION.--Maintained in cooperation with City of Dallas Water Utilities.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 416.02 ft, Mar. 20; minimum elevation, 405.23 ft, July 27.

ELEVATION FROM DCP, in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406.66 | 406.60 | 407.19 | 407.03 | 412.69 | 407.13 | 408.54 | 410.14 | 407.50 | 407.92 | 407.28 | 407.18 |
| 2 | 407.01 | 406.77 | 407.14 | 406.81 | 408.37 | 407.08 | 409.41 | 410.08 | 407.50 | 407.95 | 407.14 | 407.16 |
| 3 | 407.47 | 406.81 | 407.16 | 406.64 | 407.78 | 407.36 | 410.03 | 410.14 | 407.41 | 408.20 | 407.09 | 407.04 |
| 4 | 407.06 | 407.09 | 407.08 | 406.64 | 407.55 | 407.17 | 410.28 | 410.19 | 407.26 | 408.00 | 407.10 | 406.93 |
| 5 | 407.33 | 407.23 | 406.98 | 406.57 | 408.13 | 407.00 | 410.39 | 411.83 | 407.17 | 407.48 | 407.11 | 406.93 |
| 6 | 407.51 | 407.15 | 407.15 | 406.74 | 408.81 | 406.74 | 410.54 | 412.69 | 407.25 | 407.45 | 407.11 | 407.08 |
| 7 | 407.33 | 407.05 | 407.38 | 406.90 | 408.15 | 406.56 | 411.24 | 410.19 | 407.50 | 407.30 | 407.06 | 406.99 |
| 8 | 407.07 | 407.06 | 407.12 | 407.02 | 407.72 | 406.36 | 415.32 | 409.42 | 408.05 | 407.12 | 407.21 | 407.24 |
| 9 | 406.70 | 406.83 | 406.89 | 406.93 | 407.53 | 406.42 | 412.97 | 408.46 | 408.26 | 407.31 | 407.18 | 407.81 |
| 10 | 406.44 | 406.98 | 406.69 | 406.75 | 407.39 | 406.64 | 409.14 | 408.94 | 408.21 | 407.09 | 407.32 | 407.46 |
| 11 | 407.91 | 407.12 | 406.67 | 407.00 | 407.36 | 406.69 | 409.82 | 409.22 | 408.18 | 407.11 | 407.74 | 407.26 |
| 12 | 407.90 | 407.39 | 407.12 | 407.28 | 407.50 | 406.69 | 410.29 | 409.48 | 407.93 | 407.80 | 407.41 | 407.23 |
| 13 | 408.64 | 407.22 | 407.38 | 407.25 | 407.39 | 406.64 | 410.46 | 409.67 | 407.76 | 407.62 | 407.25 | 407.22 |
| 14 | 407.81 | 407.25 | 407.46 | 407.17 | 407.24 | 406.36 | 410.31 | 409.65 | 407.82 | 407.41 | 407.27 | 407.18 |
| 15 | 407.33 | 407.31 | 407.29 | 406.97 | 407.18 | 406.12 | 409.84 | 409.65 | 407.33 | 407.34 | 407.41 | 407.06 |
| 16 | 407.24 | 407.31 | 410.51 | 406.71 | 407.14 | 406.22 | 410.13 | 409.64 | 407.85 | 407.38 | 407.20 | 406.89 |
| 17 | 407.29 | 407.25 | 409.70 | 406.90 | 407.13 | 406.34 | 411.43 | 409.85 | 407.68 | 407.40 | 406.90 | 406.84 |
| 18 | 407.24 | 407.17 | 407.86 | 407.16 | 407.11 | 407.24 | 410.51 | 409.89 | 407.31 | 407.38 | 406.87 | 406.76 |
| 19 | 407.30 | 407.13 | 407.49 | 407.25 | 407.50 | 410.04 | 410.14 | 409.64 | 407.22 | 407.36 | 407.06 | 406.67 |
| 20 | 407.20 | 407.06 | 407.31 | 407.19 | 407.45 | 415.43 | 410.08 | 409.57 | 407.17 | 407.24 | 407.15 | 407.39 |
| 21 | 407.17 | 406.78 | 407.23 | 407.21 | 407.18 | 413.54 | 410.07 | 409.55 | 407.20 | 407.22 | 407.16 | 407.32 |
| 22 | 407.06 | 406.48 | 407.31 | 407.39 | 407.10 | 409.66 | 410.06 | 409.50 | 407.16 | 407.08 | 407.01 | 407.24 |
| 23 | 406.68 | 406.35 | 407.20 | 407.53 | 407.05 | 409.16 | 410.11 | 409.02 | 407.11 | 406.88 | 407.08 | 407.23 |
| 24 | 406.49 | 406.24 | 407.17 | 408.62 | 407.02 | 409.35 | 410.22 | 408.65 | 406.99 | 406.65 | 406.87 | 406.83 |
| 25 | 406.68 | 406.17 | 407.06 | 408.20 | 407.03 | 409.35 | 410.35 | 408.14 | 406.98 | 406.45 | 406.54 | 406.41 |
| 26 | 406.59 | 406.06 | 407.08 | 407.47 | 407.17 | 409.69 | 410.43 | 408.17 | 407.13 | 406.20 | 406.59 | 406.66 |
| 27 | 406.65 | 406.17 | 407.16 | 407.40 | 407.26 | 409.90 | 410.40 | 407.86 | 407.25 | 405.53 | 407.46 | 407.00 |
| 28 | 406.64 | 406.88 | 407.06 | 407.40 | 407.28 | 409.81 | 410.28 | 407.82 | 407.22 | 405.41 | 407.64 | 407.25 |
| 29 | 406.44 | 407.56 | 407.09 | 407.39 | --- | 409.84 | 410.25 | 408.28 | 407.30 | 405.84 | 407.34 | 407.27 |
| 30 | 406.33 | 407.28 | 407.17 | 407.46 | --- | 411.28 | 410.21 | 407.76 | 407.39 | 407.09 | 407.26 | 407.25 |
| 31 | 406.42 | --- | 407.13 | 412.49 | --- | 411.35 | --- | 407.56 | --- | 407.44 | 407.22 | --- |
| MEAN | 407.08 | 406.93 | 407.36 | 407.34 | 407.65 | 408.36 | 410.44 | 409.38 | 407.47 | 407.15 | 407.16 | 407.09 |
| MAX | 408.64 | 407.56 | 410.51 | 412.49 | 412.69 | 415.43 | 415.32 | 412.69 | 408.26 | 408.20 | 407.74 | 407.81 |
| MIN | 406.33 | 406.06 | 406.67 | 406.57 | 407.02 | 406.12 | 408.54 | 407.56 | 406.98 | 405.41 | 406.54 | 406.41 |

08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX--Continued



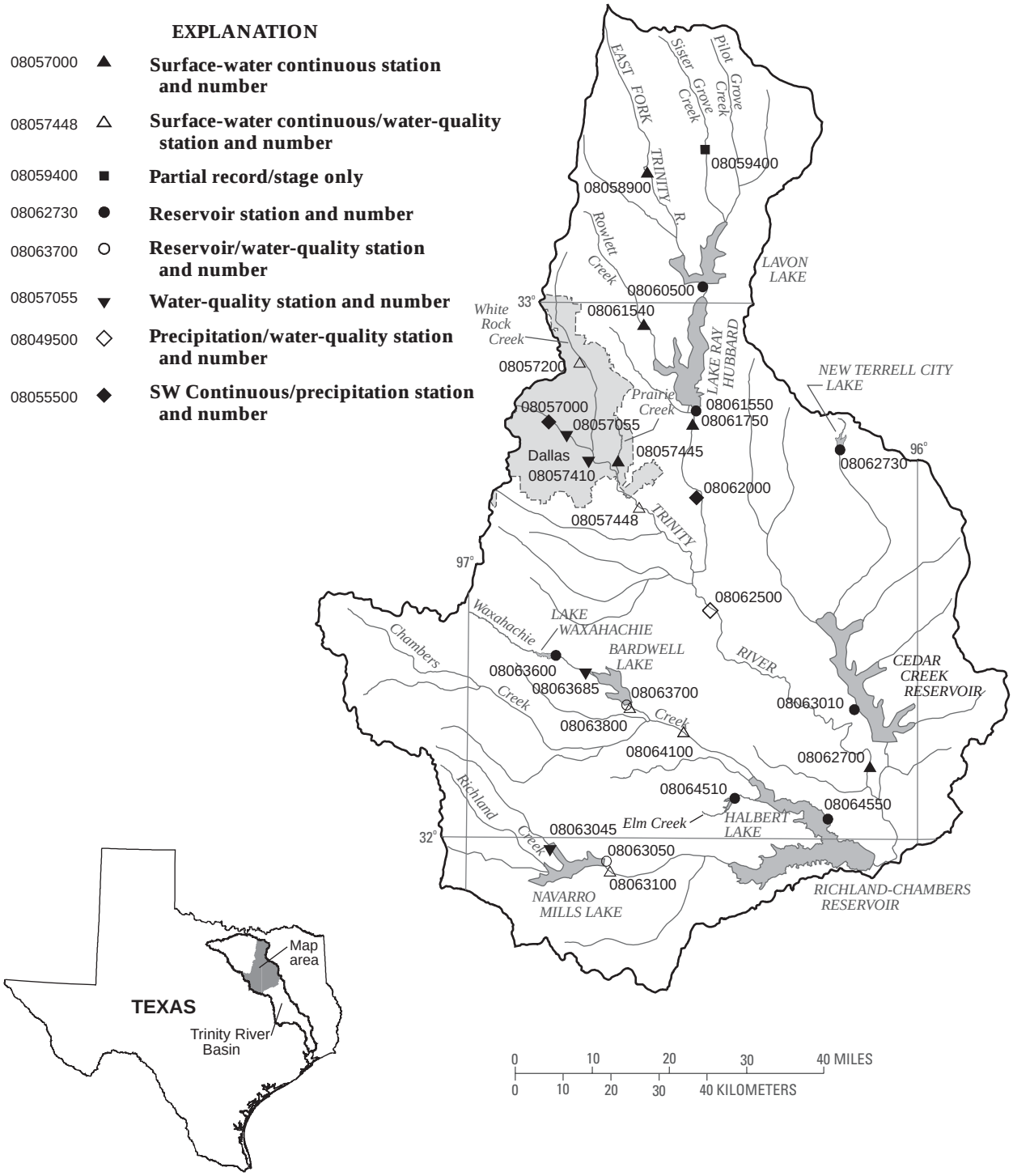



Figure 4.--Map showing location of gaging stations in the second section of the Trinity River Basin

08057000 Trinity River at Dallas, TX . . . . . 166
08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX . . . . . 170
08057200 White Rock Creek at Greenville Avenue, Dallas, TX . . . . . 178
08057410 Trinity River below Dallas, TX . . . . . 190
08057445 Prairie Creek at U.S. Highway 175, Dallas, TX . . . . . 194
08057448 Trinity River near Wilmer, TX . . . . . 196
08058900 East Fork Trinity River at McKinney, TX . . . . . 206
08059400 Sister Grove Creek near Blue Ridge, TX . . . . . 208
08060500 Lavon Lake near Lavon, TX . . . . . 210
08061540 Rowlett Creek near Sachse, TX . . . . . 212
08061550 Lake Ray Hubbard near Forney, TX . . . . . 214
08061750 East Fork Trinity River near Forney, TX . . . . . 216
08062000 East Fork Trinity River near Crandall, TX . . . . . 218
08062500 Trinity River near Rosser, TX . . . . . 222
08062700 Trinity River at Trinidad, TX . . . . . 236
08062730 New Terrell City Lake near Terrell, TX . . . . . 238
08063010 Cedar Creek Reservoir near Trinidad, TX . . . . . 240
08063045 Richland Creek near Irene, TX . . . . . 248
08063050 Navarro Mills Lake near Dawson, TX . . . . . 244
08063100 Richland Creek near Dawson, TX . . . . . 254
08063600 Lake Waxahachie near Waxahachie, TX . . . . . 258
08063685 Waxahachie Creek near Waxahachie, TX . . . . . 260
08063700 Bardwell Lake near Ennis, TX . . . . . 262
08063800 Waxahachie Creek near Bardwell, TX . . . . . 270
08064100 Chambers Creek near Rice, TX . . . . . 274
08064510 Halbert Lake near Corsicana, TX . . . . . 288
08064550 Richland-Chambers Reservoir near Kerens, TX . . . . . 290

## 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 $mi^2$.

WATER-DISCHARGE RECORDS

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.

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 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 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 DISHARGE FOR PERIOD PRIOR TO REGULATION.--10 years (water years 1904-13), 1,047 $ft^3/s$ (758,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1903-13).--Maximum discharge, 184,000 $ft^3/s$ May 25, 1908 (gage height, 52.6 ft), from rating curve extended above 109,000 $ft^3/s$. Maximum stage since at least 1840, that of May 25, 1908.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 reached about the same stage as that of May 25, 1908.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 447 | 443 | 529 | 482 | 18500 | 569 | 6310 | 4250 | 787 | 2610 | 580 | 506 |
| 2 | 445 | 450 | 494 | 465 | 6700 | 562 | 4400 | 4140 | 763 | 2780 | 505 | 492 |
| 3 | 451 | 447 | 482 | 474 | 2820 | 651 | 5370 | 4280 | 716 | 2760 | 475 | 508 |
| 4 | 443 | 451 | 486 | 481 | 2000 | 615 | 5470 | 4640 | 661 | 3210 | 471 | 485 |
| 5 | 546 | 463 | 473 | 507 | 3420 | 567 | 5950 | 9500 | 612 | 1140 | 466 | 487 |
| 6 | 503 | 456 | 518 | 523 | 6590 | 548 | 6210 | 14500 | 686 | 1190 | 469 | 489 |
| 7 | 456 | 435 | 712 | 521 | 4340 | 542 | 8030 | 8370 | 769 | 967 | 459 | 484 |
| 8 | 441 | 433 | 541 | 501 | 2680 | 542 | 24300 | 4740 | 1030 | 642 | 481 | 646 |
| 9 | 442 | 479 | 473 | 492 | 2090 | 584 | 20800 | 2880 | 1260 | 657 | 486 | 1140 |
| 10 | 440 | 534 | 459 | 487 | 1000 | 551 | e9470 | 4130 | 1300 | e577 | 1800 | 799 |
| 11 | 2260 | 529 | 464 | 478 | 1390 | 537 | 6030 | 5280 | 1490 | e678 | 3900 | 564 |
| 12 | 2580 | 629 | 574 | 576 | 776 | 530 | 6740 | 5110 | 1180 | 2820 | 1250 | 520 |
| 13 | 3650 | 795 | 681 | 686 | 742 | 536 | e6850 | 6120 | 920 | 1030 | 648 | 506 |
| 14 | 2250 | 571 | 828 | 481 | 679 | 533 | 6610 | 5110 | 1190 | 677 | 619 | 492 |
| 15 | 763 | 525 | 694 | 468 | 646 | 522 | 5970 | 4740 | 808 | 795 | 1150 | 487 |
| 16 | 612 | 550 | 5560 | 459 | 623 | 508 | 5820 | 4460 | 1620 | 1020 | 700 | 527 |
| 17 | 563 | 522 | 10700 | 458 | 610 | 505 | 8990 | 5040 | 1580 | 875 | 601 | 549 |
| 18 | 520 | 633 | 5250 | 464 | 600 | 1250 | 8260 | 6140 | 740 | 680 | 610 | 504 |
| 19 | 517 | 561 | 1430 | 472 | 697 | 5530 | 6800 | 4300 | 618 | 639 | 569 | 653 |
| 20 | 500 | 489 | 738 | 485 | 740 | 26100 | 6030 | 3710 | 572 | 553 | 541 | 872 |
| 21 | 483 | 466 | 706 | 477 | 604 | 24700 | 5210 | 3560 | 618 | 524 | 540 | 667 |
| 22 | 474 | 461 | 1140 | 526 | 573 | 12500 | 4980 | 3380 | 667 | 497 | 517 | 574 |
| 23 | 465 | 451 | 657 | 617 | 557 | 6840 | 4920 | 2600 | 543 | 497 | 518 | 540 |
| 24 | 458 | 445 | 949 | 2780 | 554 | 6230 | 5000 | 1930 | 506 | 491 | 495 | 492 |
| 25 | 448 | 440 | 510 | 3220 | 551 | 5260 | 4650 | 1330 | 544 | 480 | 497 | 470 |
| 26 | 444 | 450 | 1000 | 924 | 548 | 4530 | 5050 | 1330 | 539 | 480 | 595 | 467 |
| 27 | 442 | 457 | 652 | 618 | 564 | 5290 | 5030 | 1130 | 835 | 484 | 1110 | 460 |
| 28 | 447 | 639 | 489 | 584 | 571 | 4500 | 4670 | 1150 | 934 | 481 | 833 | 470 |
| 29 | 458 | 904 | 488 | 564 | --- | 3960 | 4420 | 1880 | 1250 | 475 | 583 | 483 |
| 30 | 454 | 628 | 482 | 588 | --- | 10100 | 4340 | 1240 | 902 | 614 | 531 | 485 |
| 31 | 444 | --- | 484 | 11300 | --- | 13000 | --- | 873 | --- | 679 | 513 | --- |
| TOTAL | 23846 | 15736 | 39643 | 32158 | 62165 | 139192 | 212680 | 131843 | 26640 | 32002 | 23512 | 16818 |
| MEAN | 769.2 | 524.5 | 1279 | 1037 | 2220 | 4490 | 7089 | 4253 | 888.0 | 1032 | 758.5 | 560.6 |
| MAX | 3650 | 904 | 10700 | 11300 | 18500 | 26100 | 24300 | 14500 | 1620 | 3210 | 3900 | 1140 |
| MIN | 440 | 433 | 459 | 458 | 548 | 505 | 4340 | 873 | 506 | 475 | 459 | 460 |
| AC-FT | 47300 | 31210 | 78630 | 63790 | 123300 | 276100 | 421900 | 261500 | 52840 | 63480 | 46640 | 33360 |

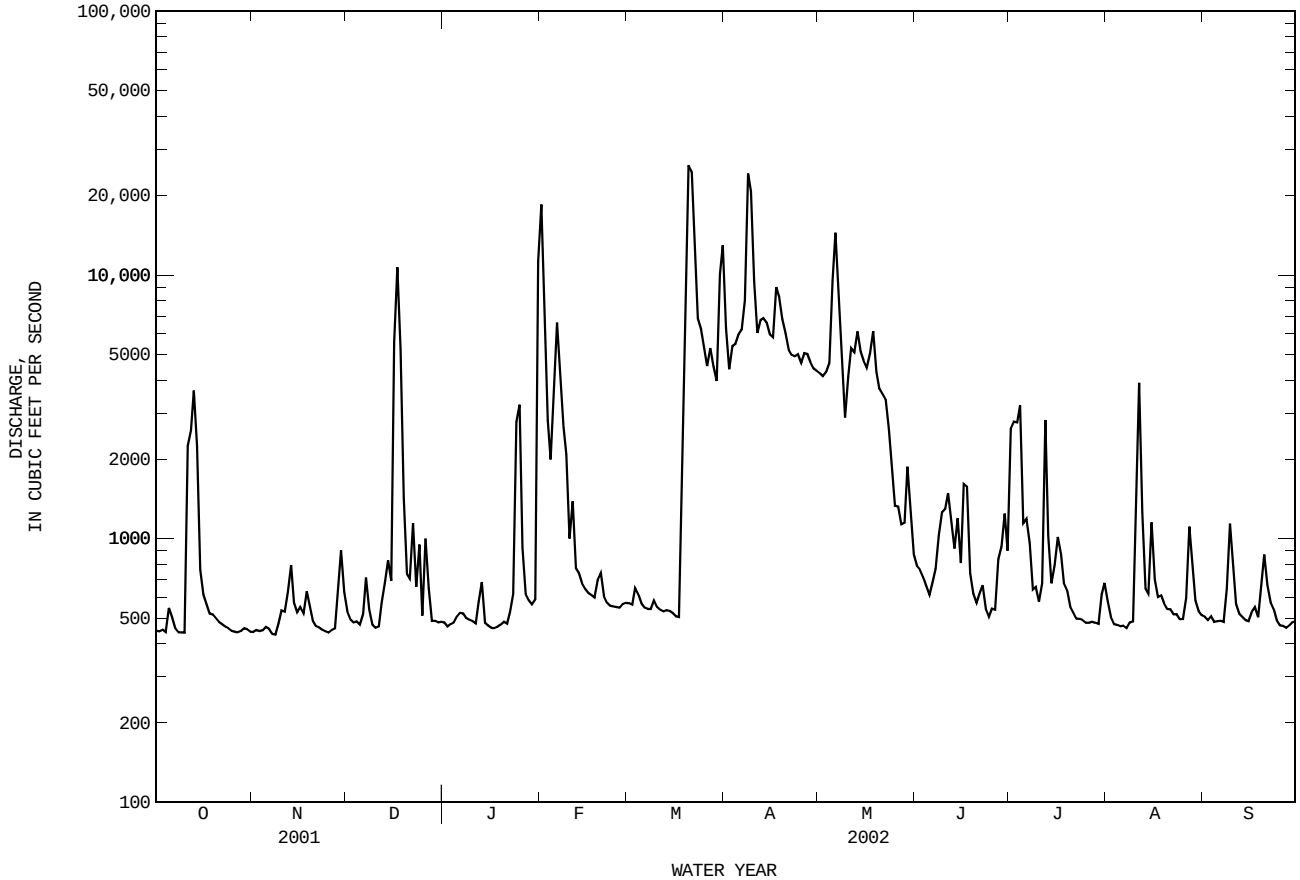
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002hz, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 1178 | 1317 | 1478 | 1338 | 2043 | 2414 | 2598 | 3863 | 2978 | 1239 | 705.1 | 790.8 |
| MAX | 10050 | 14150 | 12860 | 13350 | 10410 | 14910 | 27050 | 28050 | 17390 | 8629 | 6075 | 7107 |
| (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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1931 - 2002hz | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 838392 | | 756235 | | | |
| ANNUAL MEAN | 2297 | | 2072 | | 1826 | |
| HIGHEST ANNUAL MEAN | | | | | 7154 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 115 | 1956 |
| HIGHEST DAILY MEAN | 22900 | Feb 17 | 26100 | Mar 20 | 103000 | Apr 26 1942 |
| LOWEST DAILY MEAN | 418 | Aug 2 | 433 | Nov 8 | 10 | Oct 1 1953 |
| ANNUAL SEVEN-DAY MINIMUM | 424 | Aug 2 | 447 | Oct 26 | 26 | Apr 12 1935 |
| MAXIMUM PEAK FLOW | | | 32400 | Mar 20 | 111000 | Apr 26 1942 |
| MAXIMUM PEAK STAGE | | | 38.94 | Mar 20 | 47.10 | May 3 1990 |
| ANNUAL RUNOFF (AC-FT) | 1663000 | | 1500000 | | 1323000 | |
| 10 PERCENT EXCEEDS | 6540 | | 5490 | | 5230 | |
| 50 PERCENT EXCEEDS | 682 | | 618 | | 435 | |
| 90 PERCENT EXCEEDS | 447 | | 464 | | 114 | |

e Estimated
h See PERIOD OF RECORD paragraph.
z Period of regulated streamflow.



08057000 Trinity River at Dallas, TX--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry.

REMARKS.--Records fair.

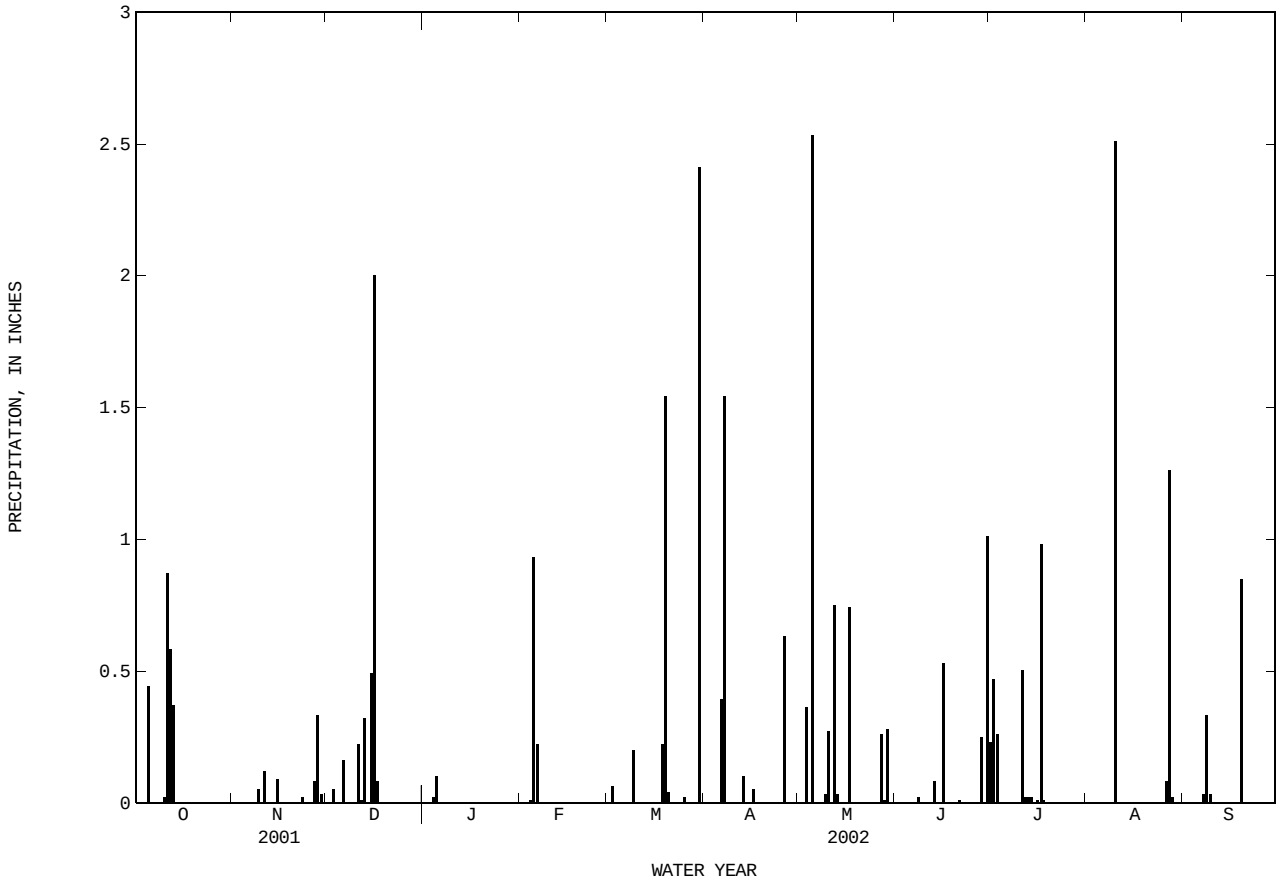
EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.526 inches, May 5.

PRECIPITATION FROM DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | e0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.05 | 0.00 | --- | 0.00 | 0.00 | 0.36 | 0.00 | 0.26 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.44 | 0.00 | 0.00 | 0.10 | 0.93 | 0.00 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.16 | 0.00 | 0.22 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.33 |
| 9 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.03 |
| 10 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 2.51 | 0.00 |
| 11 | 0.87 | 0.12 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 |
| 12 | 0.58 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 0.00 | 0.02 | 0.00 | 0.00 |
| 13 | 0.37 | 0.00 | 0.32 | 0.00 | 0.00 | 0.00 | 0.10 | 0.03 | 0.08 | 0.02 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 |
| 15 | 0.00 | 0.09 | 0.49 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 2.00 | e0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.53 | 0.01 | 0.00 | 0.00 |
| 17 | 0.00 | 0.00 | 0.08 | e0.00 | 0.00 | 0.00 | 0.00 | 0.74 | 0.00 | 0.98 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 19 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 |
| 20 | 0.00 | 0.00 | 0.00 | e0.00 | 0.00 | 0.04 | 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 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.02 | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | --- | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | e0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 27 | 0.00 | 0.08 | 0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 1.26 | 0.00 |
| 28 | 0.00 | 0.33 | 0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.25 | 0.00 | 0.02 | 0.00 |
| 29 | 0.00 | 0.03 | 0.00 | --- | --- | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | --- | --- | 2.41 | 0.00 | 0.00 | 1.01 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | --- | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 2.28 | 0.72 | 3.33 | --- | --- | 4.49 | 2.71 | 5.26 | 1.90 | 2.52 | 3.87 | 1.24 |

e Estimated

08057000 Trinity River at Dallas, TX--Continued



## 08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX

LOCATION.--Lat 32°45′04", long 96°47′07", Dallas County, Hydrologic Unit 12030105, on right bank at abandoned bridge abutment, 0.2 mi upstream from Cedar Crest Boulevard. Bridge, 1.8 mi southeast of Dallas City Hall, 2.1 mi downstream from Coombs Creek, and 2.7 mi downstream from Commerce Street Bridge (station 08057000).

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.

REMARKS.--Records poor. Interruption in the record was 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 units, June 27, 2000; minimum, 5.3 units, Feb. 1, 2002.
WATER TEMPERATURE: Maximum, 33.5°C, Aug. 12, 1987; minimum, 4.1°C, Dec. 27, 2000.
DISSOLVED OXYGEN: Maximum, 13.7 mg/L, Feb. 8, 1989; minimum, 0.0 mg/L, July 21, 1985.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 873 microsiemens/cm, Mar. 17; minimum, 214 microsiemens/cm, Feb. 6.
pH: Maximum, 8.4 units, Jan. 24; minimum, 5.3 units, Feb. 1.
WATER TEMPERATURE: Maximum, 32.4°C, July 25; minimum, 8.4°C, Feb. 1.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Aug. 17, 18; minimum, 5.2 mg/L, Aug. 11.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 792 | 767 | 776 | 750 | 735 | 742 | 690 | 656 | 676 | 778 | 754 | 765 |
| 2 | 793 | 762 | 771 | 780 | 740 | 760 | 758 | 685 | 725 | 777 | 738 | 759 |
| 3 | 804 | 780 | 790 | 787 | 775 | 782 | 762 | 726 | 745 | 766 | 735 | 750 |
| 4 | 791 | 766 | 779 | 788 | 780 | 784 | 787 | 737 | 755 | 769 | 751 | 761 |
| 5 | 791 | 319 | 697 | 791 | 753 | 772 | 788 | 761 | 772 | 768 | 742 | 754 |
| 6 | 723 | 673 | 694 | 767 | 751 | 756 | 777 | 726 | 758 | 798 | 752 | 771 |
| 7 | 766 | 701 | 734 | 793 | 767 | 782 | 763 | 636 | 708 | 794 | 772 | 784 |
| 8 | 773 | 755 | 764 | 770 | 757 | 764 | 721 | 636 | 698 | --- | --- | --- |
| 9 | 778 | 761 | 770 | 770 | 742 | 752 | 747 | 703 | 727 | --- | --- | --- |
| 10 | 784 | 760 | 776 | 805 | 687 | 749 | 759 | 729 | 744 | --- | --- | --- |
| 11 | 776 | 338 | 534 | 786 | 708 | 764 | 759 | 680 | 745 | --- | --- | --- |
| 12 | --- | --- | --- | 775 | 665 | 722 | 766 | 729 | 748 | --- | --- | --- |
| 13 | --- | --- | --- | 760 | 617 | 707 | 734 | 540 | 656 | --- | --- | --- |
| 14 | --- | --- | --- | 624 | 606 | 614 | 623 | 538 | 576 | --- | --- | --- |
| 15 | --- | --- | --- | 655 | 617 | 634 | 631 | 231 | 567 | --- | --- | --- |
| 16 | 614 | 535 | 575 | 725 | 655 | 694 | --- | --- | --- | 809 | 776 | 795 |
| 17 | 627 | 605 | 611 | 759 | 718 | 737 | --- | --- | --- | 794 | 759 | 773 |
| 18 | 656 | 625 | 644 | 794 | 751 | 765 | --- | --- | --- | 795 | 768 | 780 |
| 19 | 699 | 642 | 673 | 814 | 710 | 766 | --- | --- | --- | 802 | 771 | 788 |
| 20 | 716 | 667 | 687 | 710 | 661 | 676 | 633 | 535 | 593 | 816 | 768 | 785 |
| 21 | 743 | 716 | 730 | 748 | 678 | 718 | 690 | 515 | 632 | 815 | 781 | 796 |
| 22 | 738 | 716 | 728 | 752 | 721 | 738 | 684 | 515 | 579 | 782 | 745 | 764 |
| 23 | 741 | 700 | 719 | 803 | 751 | 776 | 730 | 532 | 673 | 746 | 589 | 712 |
| 24 | 746 | 711 | 729 | 808 | 774 | 792 | 698 | 534 | 584 | 645 | 429 | 536 |
| 25 | 726 | 699 | 712 | 787 | 772 | 780 | 752 | 698 | 730 | 486 | 413 | 449 |
| 26 | 755 | 713 | 727 | 798 | 771 | 785 | 740 | 501 | 563 | 553 | 470 | 510 |
| 27 | 768 | 753 | 758 | 780 | 753 | 765 | 737 | 513 | 647 | 662 | 553 | 614 |
| 28 | 790 | 768 | 785 | 766 | 653 | 725 | 746 | 714 | 730 | 698 | 661 | 680 |
| 29 | 785 | 755 | 771 | 735 | 624 | 662 | 742 | 717 | 730 | 733 | 688 | 711 |
| 30 | 776 | 752 | 759 | 665 | 638 | 653 | 749 | 727 | 739 | 727 | 700 | 708 |
| 31 | 789 | 747 | 767 | --- | --- | --- | 764 | 718 | 739 | --- | --- | --- |
| MONTH | --- | --- | --- | 814 | 606 | 737 | --- | --- | --- | --- | --- | --- |

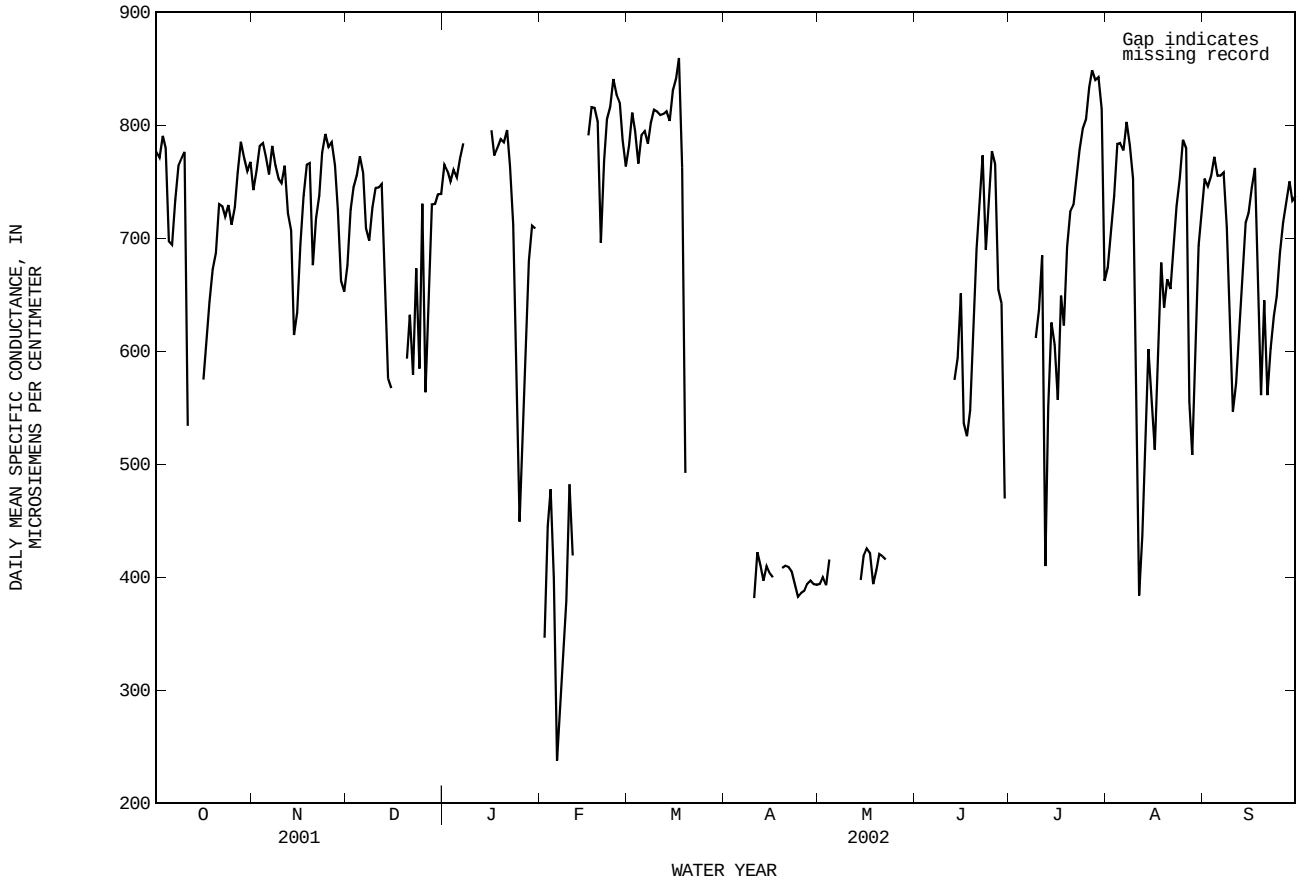
08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 809 | 772 | 782 | --- | --- | --- | 401 | 361 | 394 |
| 2 | 393 | 301 | 346 | 824 | 801 | 811 | --- | --- | --- | 403 | 393 | 400 |
| 3 | 516 | 393 | 445 | 819 | 761 | 794 | --- | --- | --- | 410 | 380 | 393 |
| 4 | 526 | 461 | 478 | 785 | 747 | 766 | --- | --- | --- | 427 | 400 | 416 |
| 5 | 561 | 224 | 399 | 805 | 780 | 791 | --- | --- | --- | --- | --- | --- |
| 6 | 250 | 214 | 237 | 807 | 784 | 795 | --- | --- | --- | --- | --- | --- |
| 7 | 317 | 250 | 282 | 796 | 774 | 784 | --- | --- | --- | --- | --- | --- |
| 8 | 367 | 317 | 336 | 823 | 790 | 802 | --- | --- | --- | --- | --- | --- |
| 9 | 399 | 364 | 379 | 827 | 796 | 814 | --- | --- | --- | --- | --- | --- |
| 10 | 538 | 399 | 482 | 823 | 804 | 812 | 430 | 338 | 381 | --- | --- | --- |
| 11 | 513 | 393 | 419 | 824 | 795 | 809 | 434 | 399 | 422 | --- | --- | --- |
| 12 | --- | --- | --- | 822 | 800 | 810 | 432 | 392 | 410 | --- | --- | --- |
| 13 | --- | --- | --- | 822 | 806 | 812 | 413 | 390 | 397 | --- | --- | --- |
| 14 | --- | --- | --- | 815 | 795 | 804 | 423 | 393 | 410 | 415 | 387 | 397 |
| 15 | --- | --- | --- | 850 | 815 | 831 | 421 | 397 | 403 | 421 | 415 | 419 |
| 16 | 800 | 784 | 791 | 850 | 836 | 841 | 410 | 392 | 400 | 428 | 420 | 425 |
| 17 | 833 | 787 | 816 | 873 | 841 | 859 | --- | --- | --- | 432 | 390 | 421 |
| 18 | 823 | 807 | 815 | 867 | 487 | 762 | --- | --- | --- | 423 | 376 | 394 |
| 19 | 842 | 687 | 803 | 603 | 308 | 492 | 413 | 402 | 408 | 417 | 388 | 406 |
| 20 | 737 | 668 | 696 | --- | --- | --- | 413 | 408 | 410 | 427 | 414 | 420 |
| 21 | 790 | 737 | 768 | --- | --- | --- | 412 | 407 | 409 | 425 | 410 | 418 |
| 22 | 825 | 790 | 805 | --- | --- | --- | 409 | 389 | 405 | 421 | 404 | 416 |
| 23 | 828 | 806 | 816 | --- | --- | --- | 402 | 378 | 394 | --- | --- | --- |
| 24 | 855 | 825 | 841 | --- | --- | --- | 399 | 367 | 382 | --- | --- | --- |
| 25 | 832 | 817 | 827 | --- | --- | --- | 392 | 375 | 386 | --- | --- | --- |
| 26 | 828 | 808 | 820 | --- | --- | --- | 406 | 360 | 388 | --- | --- | --- |
| 27 | 808 | 774 | 786 | --- | --- | --- | 406 | 381 | 394 | --- | --- | --- |
| 28 | 774 | 756 | 763 | --- | --- | --- | 400 | 392 | 397 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | 402 | 385 | 394 | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | 396 | 388 | 393 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | --- | --- | --- | 703 | 643 | 674 | 765 | 739 | 752 |
| 2 | --- | --- | --- | --- | --- | --- | 730 | 680 | 708 | 764 | 731 | 746 |
| 3 | --- | --- | --- | --- | --- | --- | 773 | 705 | 737 | 770 | 731 | 755 |
| 4 | --- | --- | --- | --- | --- | --- | 800 | 770 | 783 | 784 | 759 | 772 |
| 5 | --- | --- | --- | --- | --- | --- | 792 | 778 | 784 | 774 | 741 | 755 |
| 6 | --- | --- | --- | --- | --- | --- | 786 | 774 | 778 | 764 | 749 | 755 |
| 7 | --- | --- | --- | --- | --- | --- | 811 | 786 | 803 | 772 | 716 | 758 |
| 8 | --- | --- | --- | --- | --- | --- | 796 | 739 | 782 | 778 | 533 | 710 |
| 9 | --- | --- | --- | 620 | 605 | 611 | 764 | 739 | 753 | 642 | 551 | 608 |
| 10 | --- | --- | --- | 672 | 614 | 636 | 783 | 315 | 613 | 609 | 526 | 546 |
| 11 | --- | --- | --- | 761 | 349 | 685 | 574 | 329 | 383 | 593 | 510 | 571 |
| 12 | --- | --- | --- | 567 | 338 | 410 | 475 | 376 | 436 | 637 | 581 | 610 |
| 13 | 599 | 552 | 575 | 630 | 431 | 550 | 574 | 475 | 539 | 702 | 624 | 660 |
| 14 | 620 | 562 | 594 | 643 | 529 | 625 | 625 | 573 | 602 | 725 | 698 | 714 |
| 15 | 673 | 620 | 651 | 725 | 480 | 606 | 632 | 454 | 552 | 735 | 704 | 722 |
| 16 | 656 | 457 | 536 | 691 | 499 | 556 | 567 | 477 | 513 | 760 | 726 | 744 |
| 17 | 573 | 493 | 525 | 685 | 457 | 649 | 629 | 567 | 602 | 777 | 734 | 762 |
| 18 | 583 | 515 | 547 | 683 | 505 | 623 | 724 | 621 | 678 | 736 | 537 | 659 |
| 19 | 654 | 583 | 616 | 715 | 670 | 692 | 680 | 621 | 638 | 684 | 419 | 561 |
| 20 | 714 | 653 | 690 | 737 | 705 | 723 | 672 | 640 | 663 | 675 | 583 | 645 |
| 21 | 749 | 706 | 730 | 745 | 714 | 729 | 677 | 631 | 655 | 583 | 549 | 561 |
| 22 | 789 | 741 | 773 | 780 | 712 | 752 | 716 | 674 | 693 | 635 | 561 | 602 |
| 23 | 752 | 665 | 689 | 800 | 755 | 778 | 743 | 716 | 728 | 649 | 605 | 631 |
| 24 | 776 | 697 | 731 | 809 | 782 | 797 | 778 | 735 | 753 | 692 | 605 | 648 |
| 25 | 809 | 746 | 777 | 822 | 786 | 805 | 796 | 778 | 787 | 710 | 667 | 687 |
| 26 | 791 | 723 | 765 | 857 | 816 | 833 | 793 | 770 | 780 | 730 | 708 | 714 |
| 27 | 735 | 559 | 654 | 857 | 841 | 848 | 809 | 336 | 555 | 745 | 715 | 732 |
| 28 | 738 | 391 | 642 | 848 | 831 | 840 | 567 | 460 | 508 | 758 | 736 | 750 |
| 29 | 564 | 322 | 469 | 847 | 835 | 842 | 645 | 562 | 607 | 748 | 722 | 733 |
| 30 | --- | --- | --- | 845 | 734 | 814 | 725 | 645 | 694 | 763 | 723 | 737 |
| 31 | --- | --- | --- | 734 | 618 | 662 | 741 | 709 | 726 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 811 | 315 | 662 | 784 | 419 | 687 |

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued



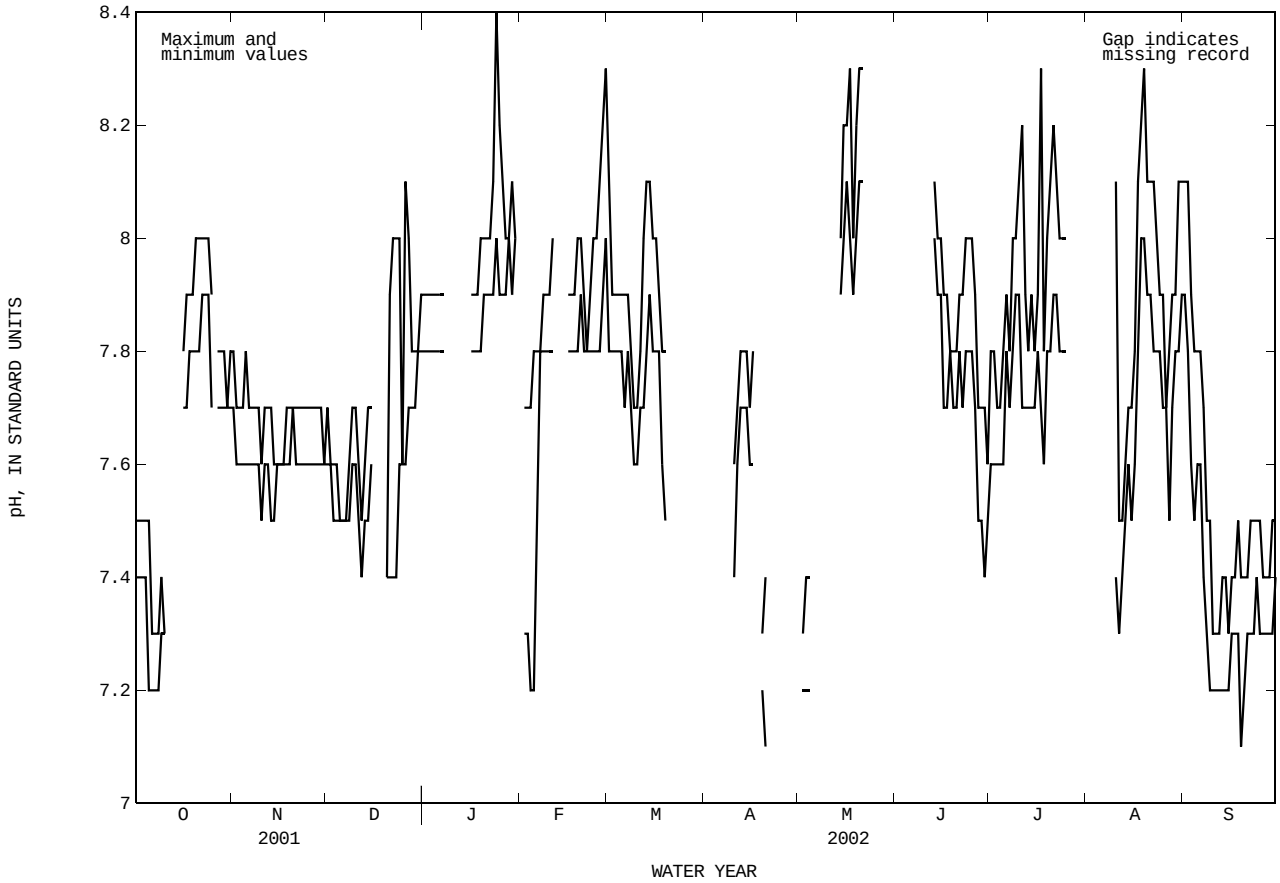

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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



08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

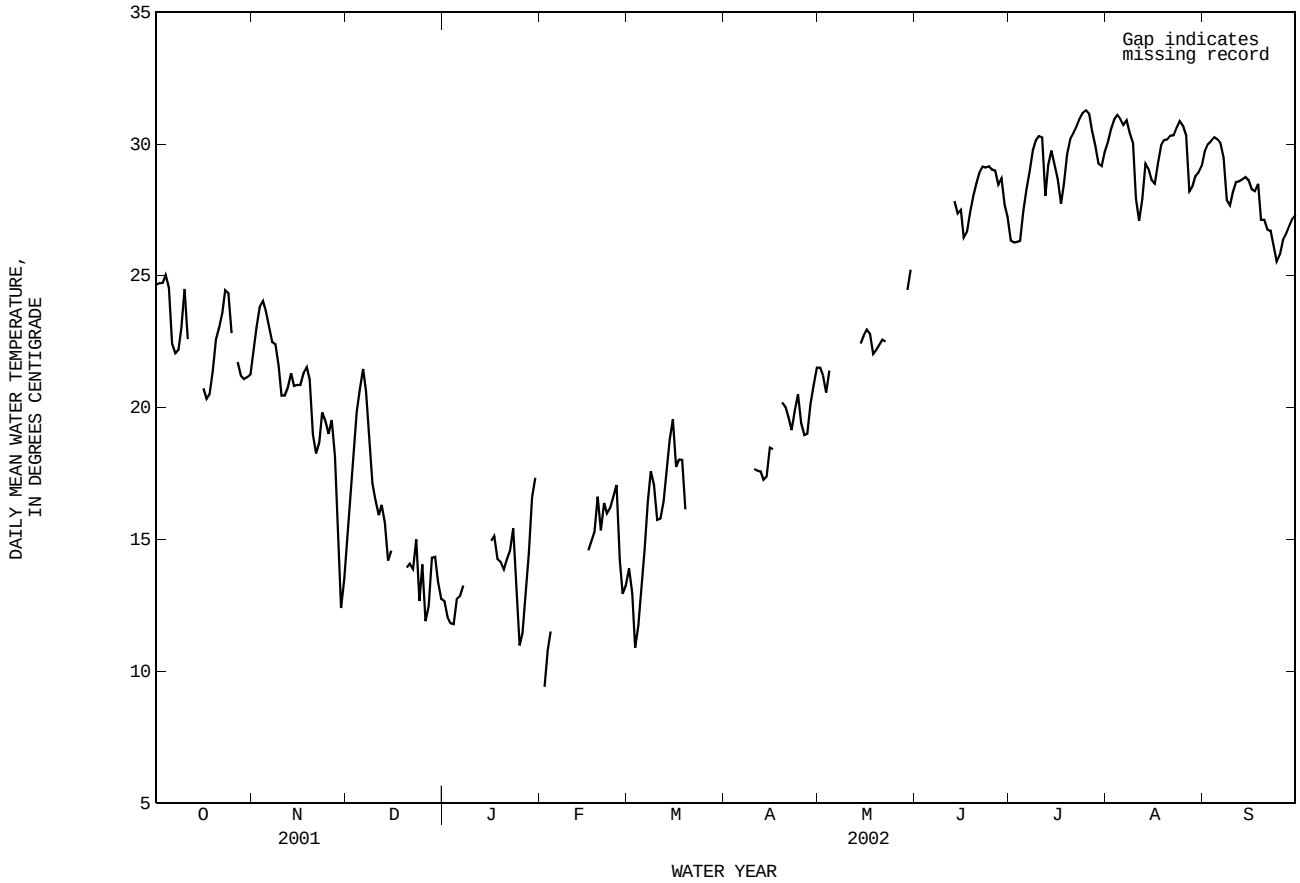
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 25.8 | 23.8 | 24.7 | 23.0 | 21.3 | 22.1 | 16.1 | 13.9 | 15.0 | 13.4 | 12.0 | 12.7 |
| 2 | 25.8 | 24.0 | 24.7 | 24.0 | 22.3 | 23.1 | 18.2 | 15.5 | 16.9 | 12.6 | 11.4 | 12.1 |
| 3 | 25.7 | 24.0 | 24.7 | 24.9 | 23.0 | 23.8 | 19.3 | 17.6 | 18.4 | 12.7 | 11.2 | 11.8 |
| 4 | 26.0 | 24.3 | 25.0 | 24.7 | 23.7 | 24.1 | 20.6 | 19.1 | 19.8 | 12.6 | 10.8 | 11.8 |
| 5 | 25.3 | 23.5 | 24.6 | 24.5 | 23.2 | 23.7 | 21.3 | 20.1 | 20.7 | 13.3 | 12.3 | 12.8 |
| 6 | 23.6 | 21.6 | 22.4 | 23.7 | 22.6 | 23.1 | 22.0 | 20.9 | 21.5 | 14.0 | 11.9 | 12.9 |
| 7 | 23.2 | 21.3 | 22.1 | 23.2 | 22.0 | 22.5 | 21.6 | 20.1 | 20.6 | 14.2 | 12.7 | 13.3 |
| 8 | 22.9 | 21.5 | 22.2 | 23.3 | 21.7 | 22.4 | 20.1 | 17.5 | 19.0 | --- | --- | --- |
| 9 | 23.9 | 22.4 | 23.0 | 22.4 | 21.0 | 21.6 | 17.9 | 16.5 | 17.1 | --- | --- | --- |
| 10 | 25.7 | 23.6 | 24.5 | 21.0 | 20.1 | 20.5 | 17.3 | 15.6 | 16.5 | --- | --- | --- |
| 11 | 25.0 | 20.9 | 22.6 | 20.7 | 20.1 | 20.5 | 16.5 | 15.3 | 15.9 | --- | --- | --- |
| 12 | --- | --- | --- | 21.2 | 20.3 | 20.8 | 17.1 | 15.3 | 16.3 | --- | --- | --- |
| 13 | --- | --- | --- | 21.6 | 20.7 | 21.3 | 16.5 | 14.7 | 15.6 | --- | --- | --- |
| 14 | --- | --- | --- | 21.2 | 20.5 | 20.8 | 14.8 | 13.8 | 14.2 | --- | --- | --- |
| 15 | --- | --- | --- | 21.1 | 20.6 | 20.9 | 15.1 | 14.0 | 14.6 | --- | --- | --- |
| 16 | 21.4 | 20.0 | 20.7 | 21.3 | 20.5 | 20.9 | --- | --- | --- | 16.0 | 14.3 | 14.9 |
| 17 | 21.0 | 19.8 | 20.3 | 21.9 | 20.8 | 21.3 | --- | --- | --- | 15.5 | 14.7 | 15.1 |
| 18 | 21.4 | 19.8 | 20.5 | 21.9 | 21.1 | 21.5 | --- | --- | --- | 14.7 | 13.9 | 14.3 |
| 19 | 22.6 | 20.5 | 21.4 | 21.8 | 19.6 | 21.1 | --- | --- | --- | 14.9 | 13.5 | 14.2 |
| 20 | 23.7 | 21.7 | 22.6 | 19.6 | 18.3 | 19.0 | 14.5 | 13.5 | 13.9 | 14.9 | 13.1 | 13.9 |
| 21 | 23.9 | 22.5 | 23.0 | 19.0 | 17.7 | 18.3 | 15.2 | 12.6 | 14.1 | 15.2 | 13.5 | 14.3 |
| 22 | 24.5 | 22.9 | 23.6 | 19.7 | 17.8 | 18.7 | 15.3 | 12.6 | 13.9 | 15.0 | 14.3 | 14.6 |
| 23 | 25.4 | 23.9 | 24.5 | 20.9 | 18.8 | 19.8 | 16.1 | 12.8 | 15.0 | 16.5 | 14.8 | 15.4 |
| 24 | 25.0 | 23.4 | 24.3 | 20.2 | 18.8 | 19.5 | 13.5 | 12.1 | 12.7 | 16.5 | 11.2 | 13.5 |
| 25 | 23.5 | 22.1 | 22.8 | 19.8 | 18.3 | 19.0 | 15.0 | 13.4 | 14.1 | 11.4 | 10.4 | 11.0 |
| 26 | --- | --- | --- | 20.5 | 18.7 | 19.5 | 14.7 | 10.8 | 11.9 | 12.3 | 10.8 | 11.4 |
| 27 | 22.5 | 21.2 | 21.7 | 19.4 | 16.8 | 18.2 | 14.3 | 10.6 | 12.5 | 13.9 | 12.1 | 12.9 |
| 28 | 22.1 | 20.6 | 21.2 | 16.8 | 13.2 | 14.9 | 15.2 | 13.6 | 14.3 | 15.6 | 13.6 | 14.5 |
| 29 | 21.9 | 20.4 | 21.1 | 13.2 | 11.3 | 12.4 | 15.1 | 13.8 | 14.3 | 17.4 | 15.4 | 16.6 |
| 30 | 22.1 | 20.5 | 21.2 | 14.4 | 12.6 | 13.5 | 14.0 | 13.0 | 13.4 | 17.7 | 16.9 | 17.3 |
| 31 | 22.0 | 20.5 | 21.3 | --- | --- | --- | 13.4 | 12.2 | 12.8 | --- | --- | --- |
| MONTH | --- | --- | --- | 24.9 | 11.3 | 20.3 | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 14.2 | 13.6 | 13.9 | --- | --- | --- | 22.0 | 21.2 | 21.5 |
| 2 | 10.1 | 9.1 | 9.4 | 14.4 | 11.3 | 13.0 | --- | --- | --- | 21.6 | 20.5 | 21.2 |
| 3 | 12.0 | 10.1 | 10.8 | 11.7 | 10.0 | 10.9 | --- | --- | --- | 21.2 | 20.1 | 20.6 |
| 4 | 12.2 | 11.3 | 11.5 | 13.1 | 10.6 | 11.7 | --- | --- | --- | 21.9 | 21.1 | 21.4 |
| 5 | --- | 10.1 | --- | 14.7 | 12.4 | 13.3 | --- | --- | --- | --- | --- | --- |
| 6 | --- | 11.9 | --- | 15.9 | 13.7 | 14.7 | --- | --- | --- | --- | --- | --- |
| 7 | --- | 12.1 | --- | 17.4 | 15.6 | 16.5 | --- | --- | --- | --- | --- | --- |
| 8 | --- | 13.6 | --- | 18.1 | 17.2 | 17.6 | --- | --- | --- | --- | --- | --- |
| 9 | --- | 15.2 | --- | 18.0 | 16.0 | 17.1 | --- | --- | --- | --- | --- | --- |
| 10 | --- | 15.6 | --- | 16.6 | 15.0 | 15.7 | 18.3 | 17.2 | 17.7 | --- | --- | --- |
| 11 | --- | 15.4 | --- | 16.0 | 15.6 | 15.8 | 18.3 | 17.1 | 17.6 | --- | --- | --- |
| 12 | --- | --- | --- | 17.9 | 15.4 | 16.5 | 18.1 | 17.1 | 17.6 | --- | --- | --- |
| 13 | --- | --- | --- | 18.9 | 16.4 | 17.5 | 17.7 | 16.9 | 17.3 | --- | --- | --- |
| 14 | --- | --- | --- | 20.2 | 17.7 | 18.8 | 18.3 | 16.8 | 17.4 | 22.9 | 21.9 | 22.4 |
| 15 | --- | --- | --- | 20.0 | 18.5 | 19.6 | 19.0 | 18.1 | 18.5 | 23.3 | 22.2 | 22.7 |
| 16 | 15.5 | 13.8 | 14.6 | 18.5 | 17.3 | 17.8 | 18.8 | 18.1 | 18.4 | 23.3 | 22.6 | 23.0 |
| 17 | 15.7 | 14.4 | 15.0 | 18.9 | 17.4 | 18.0 | --- | --- | --- | 23.2 | 22.4 | 22.8 |
| 18 | 15.9 | 14.8 | 15.3 | 18.7 | 16.2 | 18.0 | --- | --- | --- | 22.4 | 21.7 | 22.0 |
| 19 | 17.7 | 15.8 | 16.6 | 16.7 | 15.7 | 16.1 | 20.5 | 19.9 | 20.2 | 22.6 | 21.7 | 22.2 |
| 20 | 16.4 | 14.2 | 15.4 | --- | --- | --- | 20.4 | 19.8 | 20.0 | 22.8 | 21.9 | 22.4 |
| 21 | 16.6 | 15.9 | 16.4 | --- | --- | --- | 19.9 | 19.2 | 19.6 | 23.1 | 22.1 | 22.6 |
| 22 | 17.0 | 15.1 | 16.0 | --- | --- | --- | 19.7 | 18.6 | 19.1 | 23.0 | 21.7 | 22.5 |
| 23 | 17.1 | 15.5 | 16.2 | --- | --- | --- | 20.7 | 19.4 | 19.9 | --- | --- | --- |
| 24 | 17.7 | 15.9 | 16.6 | --- | --- | --- | 20.8 | 19.9 | 20.5 | --- | --- | --- |
| 25 | 17.8 | 16.1 | 17.1 | --- | --- | --- | 19.9 | 19.1 | 19.4 | --- | --- | --- |
| 26 | 16.1 | 13.0 | 14.2 | --- | --- | --- | 19.1 | 18.7 | 19.0 | --- | --- | --- |
| 27 | 14.0 | 12.0 | 13.0 | --- | --- | --- | 19.5 | 18.6 | 19.0 | --- | --- | --- |
| 28 | 14.3 | 12.6 | 13.3 | --- | --- | --- | 20.8 | 19.5 | 20.1 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | 21.5 | 20.3 | 20.9 | 25.2 | 23.7 | 24.5 |
| 30 | --- | --- | --- | --- | --- | --- | 21.9 | 21.2 | 21.5 | 26.1 | 23.8 | 25.2 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 26.5 | 25.5 | 26.3 | 31.0 | 29.4 | 30.1 | 30.9 | 28.9 | 29.7 |
| 2 | --- | --- | --- | 27.1 | 25.8 | 26.3 | 31.6 | 29.7 | 30.6 | 31.2 | 29.3 | 30.0 |
| 3 | --- | --- | --- | 26.8 | 25.8 | 26.3 | 32.1 | 30.1 | 30.9 | 31.0 | 29.5 | 30.1 |
| 4 | --- | --- | --- | 27.3 | 25.7 | 26.3 | 32.1 | 30.5 | 31.1 | 31.2 | 29.7 | 30.3 |
| 5 | --- | --- | --- | 28.1 | 26.8 | 27.4 | 31.9 | 30.3 | 31.0 | 31.1 | 29.7 | 30.2 |
| 6 | --- | --- | --- | 28.9 | 27.6 | 28.3 | 31.7 | 30.2 | 30.7 | 30.8 | 29.6 | 30.0 |
| 7 | --- | --- | --- | 29.7 | 28.2 | 29.0 | 31.8 | 30.2 | 30.9 | 30.0 | 28.9 | 29.5 |
| 8 | --- | --- | --- | 30.6 | 29.1 | 29.8 | 31.1 | 29.9 | 30.4 | 28.9 | 25.4 | 27.9 |
| 9 | --- | --- | --- | 31.0 | 29.2 | 30.1 | 31.0 | 29.3 | 30.0 | 28.4 | 27.1 | 27.7 |
| 10 | --- | --- | --- | 31.1 | 29.7 | 30.3 | 30.2 | 24.5 | 27.9 | 28.9 | 27.4 | 28.2 |
| 11 | --- | --- | --- | 31.3 | 27.0 | 30.3 | 27.7 | 26.2 | 27.1 | 29.4 | 28.0 | 28.6 |
| 12 | --- | --- | --- | 29.6 | 26.1 | 28.0 | 28.9 | 27.2 | 27.9 | 29.1 | 28.2 | 28.6 |
| 13 | 28.5 | 27.2 | 27.8 | 29.9 | 28.4 | 29.2 | 30.3 | 28.6 | 29.3 | 29.5 | 28.0 | 28.7 |
| 14 | 27.9 | 26.6 | 27.4 | 30.6 | 28.9 | 29.8 | 29.5 | 28.4 | 29.1 | 29.6 | 28.1 | 28.7 |
| 15 | 28.3 | 26.7 | 27.5 | 29.7 | 28.6 | 29.2 | 29.0 | 28.0 | 28.6 | 29.3 | 28.2 | 28.6 |
| 16 | 27.6 | 25.8 | 26.4 | 29.0 | 28.1 | 28.6 | 29.3 | 27.7 | 28.5 | 28.9 | 27.9 | 28.3 |
| 17 | 27.6 | 25.7 | 26.7 | 28.6 | 25.8 | 27.7 | 30.3 | 28.7 | 29.3 | 29.1 | 27.7 | 28.2 |
| 18 | 28.3 | 26.4 | 27.4 | 29.4 | 27.7 | 28.5 | 31.0 | 29.2 | 30.0 | 29.3 | 28.1 | 28.5 |
| 19 | 28.9 | 27.4 | 28.0 | 30.6 | 29.0 | 29.6 | 30.9 | 29.6 | 30.1 | 28.2 | 25.7 | 27.1 |
| 20 | 29.6 | 27.9 | 28.5 | 31.2 | 29.6 | 30.2 | 31.1 | 29.5 | 30.2 | 27.5 | 26.5 | 27.1 |
| 21 | 30.1 | 28.2 | 28.9 | 31.3 | 29.8 | 30.4 | 31.2 | 29.7 | 30.3 | 27.4 | 26.1 | 26.8 |
| 22 | 30.0 | 28.4 | 29.2 | 31.7 | 29.9 | 30.7 | 31.4 | 29.6 | 30.3 | 27.6 | 26.2 | 26.7 |
| 23 | 30.0 | 28.4 | 29.1 | 32.1 | 30.2 | 31.0 | 31.6 | 29.9 | 30.6 | 26.9 | 25.6 | 26.1 |
| 24 | 30.2 | 28.5 | 29.2 | 32.2 | 30.5 | 31.2 | 31.9 | 30.3 | 30.9 | 26.5 | 24.8 | 25.5 |
| 25 | 29.6 | 28.7 | 29.0 | 32.4 | 30.6 | 31.3 | 31.6 | 30.2 | 30.7 | 27.0 | 25.0 | 25.8 |
| 26 | 29.5 | 28.7 | 29.0 | 32.0 | 30.5 | 31.2 | 31.3 | 29.6 | 30.3 | 27.5 | 25.7 | 26.4 |
| 27 | 29.0 | 27.6 | 28.4 | 31.4 | 29.8 | 30.5 | 30.9 | 23.2 | 28.2 | 27.8 | 25.7 | 26.6 |
| 28 | 29.7 | 27.2 | 28.7 | 30.6 | 29.5 | 29.9 | 29.2 | 27.5 | 28.4 | 28.1 | 26.2 | 26.9 |
| 29 | 28.7 | 26.4 | 27.7 | 29.6 | 29.0 | 29.3 | 29.3 | 28.4 | 28.8 | 28.2 | 26.4 | 27.2 |
| 30 | 28.3 | 25.5 | 27.2 | 29.9 | 28.5 | 29.2 | 29.9 | 28.3 | 28.9 | 28.3 | 26.6 | 27.3 |
| 31 | --- | --- | --- | 30.5 | 28.6 | 29.7 | 30.2 | 28.5 | 29.2 | --- | --- | --- |
| MONTH | --- | --- | --- | 32.4 | 25.5 | 29.2 | 32.1 | 23.2 | 29.7 | 31.2 | 24.8 | 28.0 |



08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

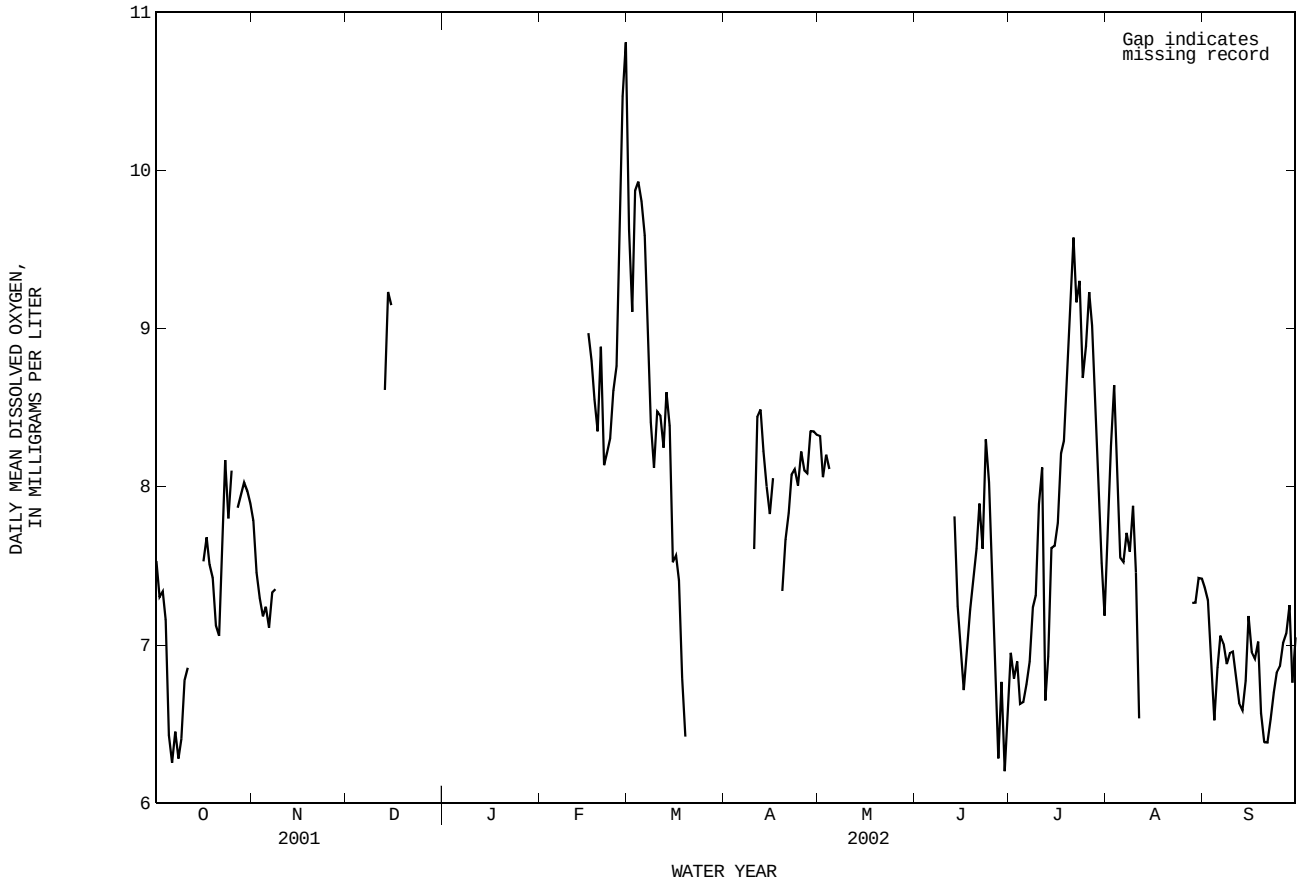
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 8.0 | 7.1 | 7.5 | 8.1 | 7.5 | 7.8 | --- | --- | --- | --- | --- | --- |
| 2 | 7.7 | 6.9 | 7.3 | 7.7 | 7.3 | 7.5 | --- | --- | --- | --- | --- | --- |
| 3 | 7.8 | 6.9 | 7.3 | 7.7 | 7.1 | 7.3 | --- | --- | --- | --- | --- | --- |
| 4 | 7.7 | 6.8 | 7.2 | 7.5 | 7.0 | 7.2 | --- | --- | --- | --- | --- | --- |
| 5 | 6.9 | 5.8 | 6.4 | 8.2 | 6.8 | 7.2 | --- | --- | --- | --- | --- | --- |
| 6 | 6.6 | 5.8 | 6.3 | 7.5 | 6.8 | 7.1 | --- | --- | --- | --- | --- | --- |
| 7 | 6.7 | 6.2 | 6.5 | 7.7 | 7.1 | 7.3 | --- | --- | --- | --- | --- | --- |
| 8 | 6.5 | 6.1 | 6.3 | 7.7 | 7.1 | 7.4 | --- | --- | --- | --- | --- | --- |
| 9 | 7.0 | 5.9 | 6.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 7.4 | 6.3 | 6.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 7.3 | 6.5 | 6.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | 8.9 | 8.2 | 8.6 | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | 9.6 | 8.9 | 9.2 | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | 9.6 | 8.8 | 9.1 | --- | --- | --- |
| 16 | 7.9 | 7.2 | 7.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 7.9 | 7.4 | 7.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 7.8 | 7.3 | 7.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 7.7 | 7.2 | 7.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 7.3 | 6.9 | 7.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 7.3 | 6.8 | 7.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 8.8 | 6.8 | 7.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 8.7 | 7.8 | 8.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 8.2 | 7.4 | 7.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | 8.7 | 7.5 | 8.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | 8.3 | 7.6 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 8.4 | 7.6 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 8.4 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 8.3 | 7.7 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 8.2 | 7.7 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 10.6 | 9.0 | 9.6 | --- | --- | --- | 8.5 | 8.1 | 8.3 |
| 2 | --- | --- | --- | 9.8 | 8.4 | 9.1 | --- | --- | --- | 8.3 | 7.8 | 8.1 |
| 3 | --- | --- | --- | 10.4 | 9.4 | 9.9 | --- | --- | --- | 8.4 | 7.9 | 8.2 |
| 4 | --- | --- | --- | 10.3 | 9.4 | 9.9 | --- | --- | --- | 8.5 | 7.8 | 8.1 |
| 5 | --- | --- | --- | 10.4 | 9.1 | 9.8 | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | 10.1 | 9.0 | 9.6 | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | 9.4 | 8.5 | 9.0 | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | 8.9 | 7.9 | 8.4 | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | 8.7 | 7.7 | 8.1 | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | 9.2 | 7.9 | 8.5 | 8.0 | 7.4 | 7.6 | --- | --- | --- |
| 11 | --- | --- | --- | 8.8 | 7.8 | 8.4 | 8.8 | 7.9 | 8.4 | --- | --- | --- |
| 12 | --- | --- | --- | 9.4 | 7.2 | 8.2 | 8.7 | 8.3 | 8.5 | --- | --- | --- |
| 13 | --- | --- | --- | 9.8 | 7.8 | 8.6 | 8.4 | 8.1 | 8.2 | --- | --- | --- |
| 14 | --- | --- | --- | 9.4 | 7.3 | 8.4 | 8.3 | 7.6 | 8.0 | --- | --- | --- |
| 15 | --- | --- | --- | 8.2 | 6.8 | 7.5 | 8.1 | 7.6 | 7.8 | --- | --- | --- |
| 16 | 9.3 | 8.6 | 9.0 | 8.6 | 6.8 | 7.6 | 8.3 | 7.9 | 8.1 | --- | --- | --- |
| 17 | 9.3 | 8.3 | 8.8 | 8.2 | 6.8 | 7.4 | --- | --- | --- | --- | --- | --- |
| 18 | 8.9 | 8.3 | 8.6 | 8.1 | 5.5 | 6.8 | --- | --- | --- | --- | --- | --- |
| 19 | 9.2 | 7.9 | 8.3 | 8.1 | 5.7 | 6.4 | 7.6 | 7.1 | 7.3 | --- | --- | --- |
| 20 | 9.3 | 8.5 | 8.9 | --- | --- | --- | 7.8 | 7.6 | 7.7 | --- | --- | --- |
| 21 | 8.7 | 7.8 | 8.1 | --- | --- | --- | 8.0 | 7.7 | 7.8 | --- | --- | --- |
| 22 | 8.6 | 7.8 | 8.2 | --- | --- | --- | 8.3 | 7.9 | 8.1 | --- | --- | --- |
| 23 | 8.8 | 7.8 | 8.3 | --- | --- | --- | 8.3 | 8.0 | 8.1 | --- | --- | --- |
| 24 | 9.4 | 8.0 | 8.6 | --- | --- | --- | 8.3 | 7.8 | 8.0 | --- | --- | --- |
| 25 | 9.5 | 8.1 | 8.8 | --- | --- | --- | 8.4 | 8.1 | 8.2 | --- | --- | --- |
| 26 | 10.6 | 8.6 | 9.6 | --- | --- | --- | 8.5 | 7.8 | 8.1 | --- | --- | --- |
| 27 | 11.5 | 9.6 | 10.5 | --- | --- | --- | 8.2 | 8.0 | 8.1 | --- | --- | --- |
| 28 | 11.8 | 10.0 | 10.8 | --- | --- | --- | 8.7 | 8.0 | 8.4 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | 8.7 | 7.8 | 8.3 | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | 8.6 | 7.9 | 8.3 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 7.2 | 6.7 | 7.0 | 8.2 | 7.2 | 7.6 | 8.1 | 6.9 | 7.4 |
| 2 | --- | --- | --- | 7.1 | 6.6 | 6.8 | 9.1 | 7.7 | 8.3 | 8.1 | 6.7 | 7.3 |
| 3 | --- | --- | --- | 7.1 | 6.6 | 6.9 | 9.7 | 7.9 | 8.6 | 7.4 | 6.1 | 6.9 |
| 4 | --- | --- | --- | 6.8 | 6.4 | 6.6 | 8.8 | 7.4 | 8.0 | 7.2 | 5.6 | 6.5 |
| 5 | --- | --- | --- | 6.8 | 6.5 | 6.6 | 8.4 | 6.7 | 7.6 | 7.8 | 5.6 | 6.9 |
| 6 | --- | --- | --- | 7.1 | 6.3 | 6.8 | 8.5 | 6.9 | 7.5 | 7.8 | 6.6 | 7.1 |
| 7 | --- | --- | --- | 7.2 | 6.6 | 6.9 | 8.8 | 6.5 | 7.7 | 7.6 | 6.5 | 7.0 |
| 8 | --- | --- | --- | 7.6 | 6.9 | 7.2 | 8.3 | 7.1 | 7.6 | 7.1 | 6.5 | 6.9 |
| 9 | --- | --- | --- | 7.8 | 6.8 | 7.3 | 8.6 | 7.2 | 7.9 | 7.2 | 6.8 | 6.9 |
| 10 | --- | --- | --- | 8.8 | 7.2 | 7.9 | 8.0 | 6.4 | 7.5 | 7.2 | 6.7 | 7.0 |
| 11 | --- | --- | --- | 9.3 | 7.1 | 8.1 | 7.3 | 5.2 | 6.5 | 7.0 | 6.6 | 6.8 |
| 12 | --- | --- | --- | 7.5 | 6.2 | 6.7 | --- | --- | --- | 6.9 | 6.4 | 6.6 |
| 13 | 8.2 | 7.3 | 7.8 | 7.4 | 6.5 | 6.9 | --- | --- | --- | 6.9 | 6.2 | 6.6 |
| 14 | 7.6 | 6.8 | 7.2 | 8.3 | 7.1 | 7.6 | --- | --- | --- | 7.8 | 5.9 | 6.8 |
| 15 | 7.5 | 6.6 | 7.0 | 7.9 | 7.2 | 7.6 | --- | --- | --- | 7.8 | 6.6 | 7.2 |
| 16 | 7.1 | 5.5 | 6.7 | 8.0 | 7.5 | 7.8 | --- | --- | --- | 7.3 | 6.3 | 7.0 |
| 17 | 7.2 | 6.7 | 7.0 | 8.6 | 7.9 | 8.2 | --- | --- | --- | 7.5 | 6.2 | 6.9 |
| 18 | 7.7 | 6.8 | 7.2 | 8.8 | 7.8 | 8.3 | --- | --- | --- | 7.4 | 6.1 | 7.0 |
| 19 | 7.8 | 7.1 | 7.4 | 9.4 | 8.3 | 8.8 | --- | --- | --- | 7.4 | 5.9 | 6.6 |
| 20 | 8.4 | 7.0 | 7.6 | 10.0 | 8.5 | 9.2 | --- | --- | --- | 6.7 | 5.9 | 6.4 |
| 21 | 8.6 | 7.3 | 7.9 | 10.7 | 8.7 | 9.6 | --- | --- | --- | 6.9 | 6.0 | 6.4 |
| 22 | 8.0 | 7.2 | 7.6 | 10.3 | 7.6 | 9.2 | --- | --- | --- | 7.1 | 6.1 | 6.5 |
| 23 | 9.1 | 7.5 | 8.3 | 9.8 | 8.8 | 9.3 | --- | --- | --- | 7.4 | 6.3 | 6.7 |
| 24 | 8.8 | 7.3 | 8.0 | 9.6 | 7.9 | 8.7 | --- | --- | --- | 7.4 | 6.3 | 6.8 |
| 25 | 8.0 | 6.7 | 7.3 | 10.0 | 8.3 | 8.9 | --- | --- | --- | 7.4 | 6.5 | 6.9 |
| 26 | 7.4 | 6.2 | 6.8 | 10.4 | 7.8 | 9.2 | --- | --- | --- | 7.5 | 6.7 | 7.0 |
| 27 | 6.9 | 5.3 | 6.3 | 9.8 | 8.3 | 9.0 | --- | --- | --- | 7.6 | 6.7 | 7.1 |
| 28 | 6.9 | 6.5 | 6.8 | 9.2 | 8.1 | 8.6 | 7.5 | 7.0 | 7.3 | 7.9 | 6.8 | 7.3 |
| 29 | 6.7 | 5.8 | 6.2 | 8.5 | 7.7 | 8.1 | 7.5 | 7.1 | 7.3 | 7.2 | 6.0 | 6.8 |
| 30 | 6.9 | 6.3 | 6.6 | 7.9 | 6.9 | 7.5 | 7.9 | 7.1 | 7.4 | 7.6 | 6.5 | 7.0 |
| 31 | --- | --- | --- | 7.8 | 6.5 | 7.2 | 8.1 | 7.0 | 7.4 | --- | --- | --- |
| MONTH | --- | --- | --- | 10.7 | 6.2 | 7.9 | --- | --- | --- | 8.1 | 5.6 | 6.9 |



## 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 $mi^2$.

### 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.--Records fair except those for estimated daily discharges, which are poor. No known regulation. Low flow is affected by diversions from small dams upstream from station.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25 | 22 | 35 | 24 | 140 | 33 | 85 | 20 | 38 | 266 | e3.2 | 11 |
| 2 | 24 | 22 | 32 | 24 | 89 | 57 | 67 | 18 | 33 | 133 | e3.3 | 9.2 |
| 3 | 24 | 23 | 31 | 23 | 79 | 49 | 57 | 224 | 29 | 210 | e3.0 | 11 |
| 4 | 24 | 22 | 31 | 23 | 74 | 37 | 47 | 46 | 27 | 106 | e2.7 | 8.6 |
| 5 | 106 | 26 | 30 | 65 | 516 | 33 | 43 | 535 | 48 | 60 | e2.7 | e5.0 |
| 6 | 43 | 34 | 154 | 35 | 457 | 31 | 69 | 54 | 41 | 40 | e2.4 | e3.0 |
| 7 | 31 | 23 | 49 | 26 | 332 | 34 | 3680 | 38 | 31 | 36 | e15.2 | e3.0 |
| 8 | 28 | 23 | 35 | 23 | 259 | 33 | 1020 | 40 | 28 | 31 | 41 | 475 |
| 9 | 26 | 27 | 30 | 22 | 217 | 57 | 94 | 45 | 32 | 26 | 12 | 147 |
| 10 | 35 | 23 | 29 | 24 | 179 | 37 | 67 | 633 | 30 | 21 | 120 | 62 |
| 11 | 486 | 110 | 70 | 22 | 164 | 42 | 52 | 81 | 23 | 138 | 43 | 37 |
| 12 | 214 | 50 | 79 | 23 | 137 | 33 | 47 | 57 | 20 | 118 | 29 | 30 |
| 13 | 517 | 32 | 132 | 23 | 128 | 31 | 211 | 105 | 119 | 54 | 16 | 28 |
| 14 | 77 | 28 | 73 | 22 | 107 | 28 | 86 | 44 | 108 | 57 | 60 | 25 |
| 15 | 55 | 34 | 81 | 21 | 91 | 27 | 58 | 39 | 39 | 35 | 49 | 24 |
| 16 | 44 | 39 | 5600 | 29 | 79 | 28 | 50 | 36 | 277 | 33 | 21 | 23 |
| 17 | 39 | 28 | 239 | 25 | 70 | 28 | 67 | 514 | 58 | 39 | 12 | 17 |
| 18 | 37 | 26 | 86 | 23 | 61 | 2300 | 63 | 80 | 35 | 40 | 8.2 | 19 |
| 19 | 37 | 42 | 63 | 30 | 63 | 6380 | 52 | 50 | 27 | 27 | 7.3 | 129 |
| 20 | 37 | 25 | 51 | 26 | 51 | 2020 | 42 | 50 | 23 | 20 | e3.3 | 48 |
| 21 | 35 | 23 | 44 | 22 | 41 | 81 | 36 | 36 | 19 | e16 | e3.7 | 30 |
| 22 | 33 | 23 | 40 | 37 | 44 | 53 | 32 | 32 | 23 | e13 | e4.1 | 24 |
| 23 | 30 | 29 | 34 | 158 | 42 | 41 | 30 | 29 | 22 | e9.5 | e1.7 | 22 |
| 24 | 27 | 44 | 30 | 614 | 42 | 34 | 27 | 28 | 25 | e5.9 | e1.4 | 17 |
| 25 | 22 | 28 | 27 | 94 | 38 | 31 | 23 | 27 | 22 | e5.8 | e1.3 | 16 |
| 26 | 19 | 27 | 26 | 57 | 34 | 24 | 93 | 357 | 26 | e6.5 | 5.9 | 14 |
| 27 | 22 | 23 | 25 | 48 | 34 | 20 | 41 | 90 | 56 | e5.6 | 241 | 15 |
| 28 | 22 | 178 | 25 | 46 | 35 | 19 | 27 | 168 | 31 | e4.0 | 51 | e9.2 |
| 29 | 20 | 75 | 26 | 42 | --- | 17 | 22 | 225 | 42 | e3.6 | 26 | 18 |
| 30 | 22 | 44 | 27 | 48 | --- | 717 | 20 | 60 | 197 | e3.6 | 19 | 15 |
| 31 | 24 | --- | 26 | 6730 | --- | 340 | --- | 44 | --- | e3.6 | 13 | --- |
| TOTAL | 2185 | 1153 | 7260 | 8429 | 3603 | 12695 | 6308 | 3805 | 1529 | 1567.1 | 822.4 | 1295.0 |
| MEAN | 70.48 | 38.43 | 234.2 | 271.9 | 128.7 | 409.5 | 210.3 | 122.7 | 50.97 | 50.55 | 26.53 | 43.17 |
| MAX | 517 | 178 | 5600 | 6730 | 516 | 6380 | 3680 | 633 | 277 | 266 | 241 | 475 |
| MIN | 19 | 22 | 25 | 21 | 34 | 17 | 20 | 18 | 19 | 3.6 | 1.3 | 3.0 |
| AC-FT | 4330 | 2290 | 14400 | 16720 | 7150 | 25180 | 12510 | 7550 | 3030 | 3110 | 1630 | 2570 |

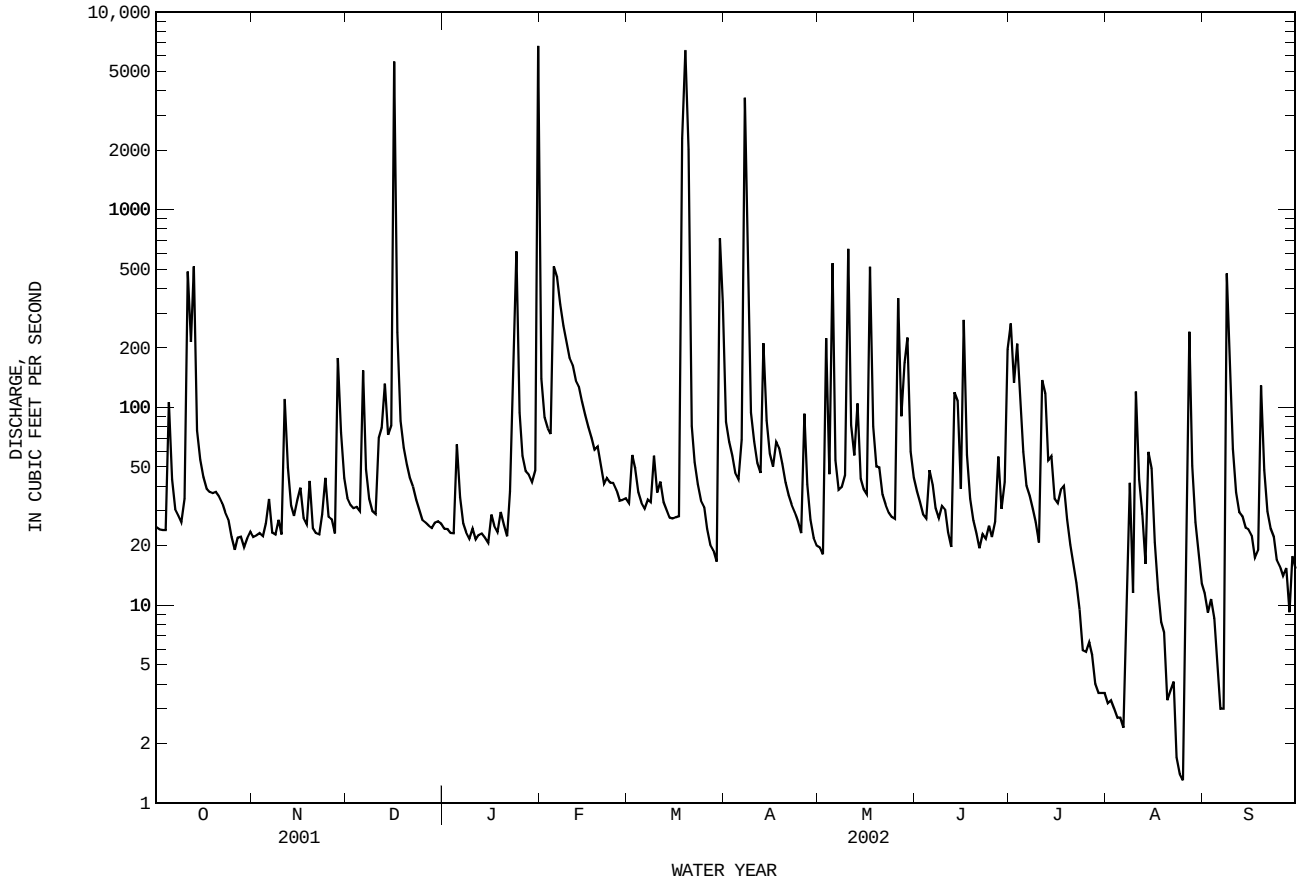
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 90.84 | 70.79 | 99.43 | 62.13 | 100.2 | 119.5 | 122.5 | 156.2 | 93.79 | 37.85 | 26.07 | 58.40 |
| 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1961 - 2002h | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 56284.1 | | 50651.5 | | | |
| ANNUAL MEAN | 154.2 | | 138.8 | | 87.26 | |
| HIGHEST ANNUAL MEAN | | | | | 201 | 2001 |
| LOWEST ANNUAL MEAN | | | | | 20.8 | 1971 |
| HIGHEST DAILY MEAN | 5710 | Feb 16 | 6730 | Jan 31 | 14700 | Sep 21 1964 |
| LOWEST DAILY MEAN | 6.7 | Jul 25 | 1.3 | Aug 25 | 0.01 | Jul 8 1970 |
| ANNUAL SEVEN-DAY MINIMUM | 8.5 | Aug 7 | 3.0 | Jul 31 | 0.21 | Aug 21 1961 |
| MAXIMUM PEAK FLOW | | | 25700 | Mar 19 | 39200 | May 2 1990 |
| MAXIMUM PEAK STAGE | | | 89.29 | Mar 19 | 90.59 | May 2 1990 |
| ANNUAL RUNOFF (AC-FT) | 111600 | | 100500 | | 63210 | |
| 10 PERCENT EXCEEDS | 235 | | 160 | | 121 | |
| 50 PERCENT EXCEEDS | 44 | | 34 | | 22 | |
| 90 PERCENT EXCEEDS | 13 | | 14 | | 4.2 | |

e Estimated
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
(National Water-Quality Assessment Program)

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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | 0900 | 29 | 565 | 8.2 | 22.9 | -- | -- | 153 | 63.8 | 38.7 | 1.95 | .022 | 1.97 |
| 25... | 1400 | 21 | 572 | 7.8 | 19.3 | 8.6 | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | 1100 | 22 | 593 | 8.2 | 18.1 | 8.8 | 94 | 167 | 71.4 | 39.4 | 1.27 | .013 | 1.28 |
| 19... | 1300 | 77 | 599 | 7.9 | 17.2 | 8.9 | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | 1200 | 32 | 607 | 8.0 | 17.3 | 8.5 | 89 | 172 | 69.0 | 38.0 | 2.11 | .027 | 2.14 |
| 20... | 1130 | 50 | 568 | 7.8 | 9.4 | 10.8 | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | 1130 | 23 | 647 | 8.1 | 11.6 | 12.0 | 112 | 202 | 83.2 | 40.0 | 2.50 | .021 | 2.53 |
| 25... | 0930 | 90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | 1630 | 120 | 689 | 8.1 | 10.6 | 11.8 | 106 | 189 | 79.7 | 35.0 | 2.50 | .026 | 2.53 |
| 19... | 1600 | 71 | 674 | 8.0 | 16.3 | 10.1 | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | 0900 | 32 | 654 | 7.9 | 6.9 | 11.6 | 95 | -- | -- | -- | 2.44 | .022 | 2.46 |
| 13... | 1600 | 30 | 593 | 8.2 | 15.2 | 12.8 | 130 | 170 | 73.7 | 35.8 | 1.93 | .030 | 1.96 |
| 20... | 1530 | 180 | 381 | 7.9 | 15.1 | 10.4 | 104 | -- | -- | -- | 1.61 | .034 | 1.64 |
| 27... | 1030 | 20 | 681 | 8.0 | 12.6 | 10.7 | 101 | -- | -- | -- | 2.69 | .027 | 2.71 |
| APR | | | | | | | | | | | | | |
| 02... | 1050 | 68 | 552 | 8.0 | 17.1 | 9.2 | 97 | -- | -- | -- | 2.15 | .034 | 2.19 |
| 10... | 1030 | 71 | 567 | 8.0 | 17.4 | 9.3 | 97 | 190 | 64.3 | 23.7 | 2.18 | .030 | 2.21 |
| 16... | 0900 | 49 | 623 | 7.8 | 20.5 | 7.8 | 88 | -- | -- | -- | 2.06 | .032 | 2.09 |
| 23... | 1230 | 31 | 656 | 8.1 | 24.0 | 12.7 | 151 | -- | -- | -- | 2.19 | .027 | 2.22 |
| MAY | | | | | | | | | | | | | |
| 07... | 0800 | 37 | 489 | 8.5 | 23.7 | 9.2 | 111 | -- | -- | -- | 1.55 | .022 | 1.57 |
| 15... | 1130 | 38 | 509 | 8.1 | 21.8 | 11.5 | 133 | 157 | 56.2 | 23.9 | 2.06 | .032 | 2.09 |
| 21... | 1000 | 36 | 477 | 7.8 | 19.7 | 10.9 | 120 | -- | -- | -- | 1.74 | .026 | 1.77 |
| 30... | 1000 | 86 | 382 | 7.4 | 22.7 | 9.2 | 109 | -- | -- | -- | 1.49 | .020 | 1.51 |
| JUN | | | | | | | | | | | | | |
| 03... | 1030 | 29 | 541 | 7.6 | 25.6 | 11.0 | 138 | -- | -- | -- | 2.01 | .023 | 2.03 |
| 11... | 1030 | 23 | 534 | 7.4 | 26.4 | 9.1 | 115 | 125 | 64.5 | 33.8 | 1.91 | .032 | 1.94 |
| 17... | 1030 | 79 | 358 | 7.6 | 25.1 | 10.1 | 125 | -- | -- | -- | 1.22 | .018 | 1.24 |
| 24... | 1430 | 25 | 474 | 7.9 | 30.3 | 13.4 | 180 | -- | -- | -- | 1.20 | .016 | 1.22 |
| JUL | | | | | | | | | | | | | |
| 09... | 1130 | 29 | 465 | 8.3 | 30.0 | 12.7 | 168 | 124 | 53.6 | 27.4 | 1.24 | .024 | 1.27 |
| 23... | 1030 | 11 | 560 | 7.9 | 28.6 | 9.4 | 121 | -- | -- | -- | 2.34 | .034 | 2.37 |
| AUG | | | | | | | | | | | | | |
| 05... | 1230 | 5.1 | 575 | 8.1 | 30.4 | 11.0 | 149 | 112 | 76.6 | 44.9 | 3.24 | .038 | 3.28 |
| 19... | 1100 | 7.9 | 500 | 8.1 | 28.3 | 10.0 | 132 | -- | -- | -- | 1.85 | .032 | 1.88 |
| SEP | | | | | | | | | | | | | |
| 11... | 1000 | 37 | 383 | 7.9 | 25.1 | 8.9 | 110 | 99 | 40.6 | 18.9 | 1.20 | .015 | 1.22 |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, TOTAL (MG/L AS N) (00600) | NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681) | CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155) | SEDI-MENT, SUS-PENDED (MG/L) (80154) | BENZENE TOTAL (UG/L) (34030) | 2,4-D, DIS-SOLVED (UG/L) (39732) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.04 | 2.5 | -- | .54 | .30 | .24 | .745 | 61.5 | 1.2 | .86 | 11 | <.04 | .10 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | E.02 | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.04 | 1.7 | -- | .47 | .23 | .16 | .488 | 4.3 | 3.0 | 2.0 | 34 | <.04 | .05 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.04 | -- |
| DEC | | | | | | | | | | | | | |
| 05... | <.04 | 2.7 | -- | .56 | .34 | .26 | .806 | 4.2 | 1.1 | 1.5 | 17 | <.04 | E.19 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | E.04 | -- |
| JAN | | | | | | | | | | | | | |
| 10... | E.02 | 3.0 | -- | .44 | .23 | .18 | .555 | 3.0 | 1.3 | .50 | 8.0 | <.04 | .04 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | E.02 | -- |
| FEB | | | | | | | | | | | | | |
| 13... | .10 | 3.0 | .42 | .51 | .123 | .08 | .258 | 3.0 | 1.3 | 8.1 | 25 | <.04 | .13 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.04 | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.04 | 3.0 | -- | .51 | .25 | .21 | .632 | -- | -- | -- | -- | -- | .16 |
| 13... | <.04 | 2.5 | -- | .52 | .21 | .13 | .405 | 3.7 | 7.6 | 3.2 | 39 | -- | .42 |
| 20... | .14 | 2.9 | 1.1 | 1.3 | .27 | .08 | .251 | -- | -- | -- | -- | -- | .83 |
| 27... | E.03 | 3.1 | -- | .39 | .133 | .08 | .242 | -- | -- | -- | -- | <.04 | .22 |
| APR | | | | | | | | | | | | | |
| 02... | .06 | 2.9 | .63 | .69 | .175 | .07 | .230 | -- | -- | -- | -- | -- | .10 |
| 10... | .06 | 2.8 | .51 | .57 | .133 | .07 | .202 | 3.2 | 2.5 | 8.6 | 45 | <.04 | .37 |
| 16... | E.02 | 2.9 | -- | .84 | .29 | .05 | .163 | -- | -- | -- | -- | -- | .48 |
| 23... | <.04 | 2.6 | -- | .42 | .171 | .12 | .377 | -- | -- | -- | -- | -- | .12 |
| MAY | | | | | | | | | | | | | |
| 07... | <.04 | 2.1 | -- | .51 | .134 | .08 | .242 | -- | -- | .90 | 9.0 | -- | .17 |
| 15... | <.04 | 2.6 | -- | .50 | .19 | .13 | .411 | 3.7 | .8 | .62 | 6.0 | <.04 | .06 |
| 21... | <.04 | 2.2 | -- | .40 | .183 | .11 | .337 | -- | -- | .78 | 8.0 | -- | .04 |
| 30... | <.04 | 2.1 | -- | .60 | .195 | .13 | .386 | -- | -- | .70 | 3.0 | -- | .11 |
| JUN | | | | | | | | | | | | | |
| 03... | <.04 | 2.5 | -- | .49 | .25 | .20 | .601 | -- | -- | .23 | 3.0 | -- | .13 |
| 11... | <.04 | 2.5 | -- | .53 | .26 | .22 | .668 | 3.5 | 1.0 | .43 | 7.0 | <.04 | .11 |
| 17... | <.04 | 1.8 | -- | .53 | .163 | .08 | .258 | -- | -- | .43 | 2.0 | -- | .25 |
| 24... | <.04 | 1.8 | -- | .55 | .21 | .15 | .451 | -- | -- | .34 | 5.0 | -- | .11 |
| JUL | | | | | | | | | | | | | |
| 09... | <.04 | 1.8 | -- | .51 | .21 | .15 | .466 | 4.0 | 1.1 | .23 | 3.0 | <.04 | E.79 |
| 23... | <.04 | 2.9 | -- | .54 | .50 | .41 | 1.25 | -- | -- | .12 | 4.0 | -- | <.02 |
| AUG | | | | | | | | | | | | | |
| 05... | E.02 | 4.0 | -- | .71 | .79 | .77 | 2.37 | 4.9 | 1.1 | .14 | 10 | <.04 | <.02 |
| 19... | .10 | 2.5 | .50 | .60 | .42 | .38 | 1.17 | -- | -- | .21 | 10 | -- | .07 |
| SEP | | | | | | | | | | | | | |
| 11... | <.04 | 1.7 | -- | .51 | .161 | .10 | .316 | 4.0 | 1.1 | .90 | 9.0 | <.04 | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | 2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | 3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) | ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312) | ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313) | ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.02 | <.002 | <.006 | <.004 | <.007 | <.002 | <.04 | <.02 | <.008 | <.005 | E.106 | <.050 | <.010 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.02 | <.002 | <.006 | <.004 | <.007 | <.002 | <.04 | <.02 | <.008 | <.005 | E.019 | <.050 | <.010 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | <.02 | <.002 | <.006 | <.004 | <.007 | <.002 | <.04 | <.02 | <.008 | <.005 | .100 | <.050 | <.010 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | <.02 | <.006 | <.006 | <.006 | <.007 | <.004 | <.04 | <.02 | <.008 | <.005 | .167 | <.050 | <.010 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.02 | <.006 | <.006 | <.006 | <.007 | <.004 | <.04 | <.02 | <.008 | <.005 | .513 | <.050 | <.010 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.02 | <.006 | <.006 | <.006 | <.007 | <.004 | <.04 | <.02 | <.008 | <.005 | .468 | <.050 | <.010 |
| 13... | <.02 | <.006 | <.006 | <.006 | <.007 | .027 | <.04 | <.02 | <.008 | <.005 | .516 | <.050 | <.010 |
| 20... | <.02 | <.006 | <.006 | .009 | <.104 | .013 | <.04 | <.02 | <.008 | <.005 | 1.63 | <.050 | E.005n |
| 27... | <.02 | <.006 | <.006 | .012 | <.097 | .015 | <.04 | <.02 | <.008 | <.005 | .609 | <.050 | <.010 |
| APR | | | | | | | | | | | | | |
| 02... | <.02 | <.006 | <.006 | .013 | <.007 | .025 | <.04 | <.02 | <.008 | <.005 | 1.06 | <.050 | <.010 |
| 10... | <.02 | <.006 | <.006 | .013 | <.007 | .016 | <.04 | <.02 | <.008 | <.005 | .880 | <.050 | <.010 |
| 16... | <.02 | <.006 | <.006 | .029 | <.007 | .028 | <.04 | <.02 | <.008 | <.005 | .799 | <.050 | <.010 |
| 23... | <.02 | <.006 | <.006 | .011 | <.007 | .018 | <.04 | <.02 | <.008 | <.005 | 2.69 | <.050 | <.010 |
| MAY | | | | | | | | | | | | | |
| 07... | <.02 | <.006 | <.006 | .015 | <.007 | .017 | <.04 | <.02 | <.008 | <.005 | .712 | <.050 | <.010 |
| 15... | <.02 | <.006 | <.006 | .017 | <.007 | .020 | <.04 | <.02 | <.008 | <.005 | .585 | <.050 | <.010 |
| 21... | <.02 | <.006 | <.006 | .010 | <.007 | .013 | <.04 | <.02 | <.008 | <.005 | .496 | <.050 | <.010 |
| 30... | <.02 | <.006 | <.006 | <.006 | <.007 | .011 | <.04 | <.02 | <.008 | <.005 | .403 | <.050 | <.010 |
| JUN | | | | | | | | | | | | | |
| 03... | <.02 | <.006 | <.006 | .013 | <.007 | .015 | <.04 | <.02 | <.008 | <.005 | .338 | <.050 | <.010 |
| 11... | <.02 | <.006 | <.006 | <.015 | <.007 | .014 | <.04 | <.02 | <.008 | <.005 | .343 | <.050 | <.010 |
| 17... | <.02 | <.006 | <.006 | <.007 | <.007 | .008 | <.04 | <.02 | <.008 | <.005 | E.373 | <.050 | <.010 |
| 24... | <.02 | --r | <.006 | --r | <.007 | --r | <.04 | <.02 | <.008 | --r | .252 | --r | --r |
| JUL | | | | | | | | | | | | | |
| 09... | <.02 | <.006 | <.006 | <.006 | <.007 | .010 | <.04 | <.02 | <.008 | <.005 | .312 | <.050 | <.010 |
| 23... | <.02 | <.006 | <.006 | <.010 | <.007 | <.015 | <.04 | <.02 | <.008 | <.005 | .317 | <.050 | <.010 |
| AUG | | | | | | | | | | | | | |
| 05... | <.02 | <.006 | <.006 | .009 | <.007 | .009 | <.04 | <.02 | <.008 | <.005 | .357 | <.050 | <.010 |
| 19... | <.02 | <.006 | <.006 | <.006 | <.007 | <.004 | <.04 | <.02 | <.008 | <.005 | .228 | <.050 | <.010 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711) | BRO-MACIL, WATER, DISS, REC (UG/L) (04029) | BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306) | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.01 | <.03 | <.02 | <.002 | M | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.01 | <.03 | <.02 | <.002 | <.03 | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | E.01 | <.03 | <.02 | <.002 | M | E.007 | <.006 | <.020 | E4.23 | <.005 | <.006 | <.01 | <.018 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | <.01 | E.02 | <.02 | <.002 | <.03 | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | E.01 | <.018 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.01 | <.03 | <.02 | <.002 | M | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.01 | E.02 | <.02 | <.002 | <.03 | E.008 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 13... | <.01 | E.05 | <.02 | <.002 | E.02 | E.065 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 20... | <.01 | <.03 | <.02 | <.002 | .06 | E.066 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 27... | <.01 | <.03 | <.02 | <.002 | E.02 | E.020 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| APR | | | | | | | | | | | | | |
| 02... | <.01 | <.03 | <.02 | <.002 | E.03 | E.023 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 10... | <.01 | .01 | <.02 | <.002 | .02 | E.029 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 16... | <.01 | <.03 | <.02 | <.002 | E.02 | E.041 | <.006 | <.020 | <.04 | .008 | <.006 | <.01 | <.018 |
| 23... | <.01 | <.03 | <.02 | <.002 | E.01 | <.041 | <.006 | E.012 | <.04 | <.005 | <.006 | <.01 | <.018 |
| MAY | | | | | | | | | | | | | |
| 07... | <.01 | <.03 | <.02 | <.002 | E.03 | E.043 | <.006 | <.020 | <.04 | E.004n | <.006 | <.01 | <.018 |
| 15... | <.01 | <.03 | <.02 | <.002 | .03 | E.061 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 21... | <.01 | <.03 | <.02 | <.002 | .05 | E.111 | <.006 | <.020 | <.04 | E.003n | <.006 | <.01 | <.018 |
| 30... | <.01 | <.03 | <.02 | <.002 | .05 | E.115 | <.006 | <.020 | <.04 | .006 | <.006 | <.01 | <.018 |
| JUN | | | | | | | | | | | | | |
| 03... | <.01 | <.03 | <.02 | <.002 | <.03 | E.007 | <.006 | <.020 | <.04 | E.003n | <.006 | <.01 | <.018 |
| 11... | E.04 | <.03 | <.02 | <.002 | <.03 | E.006 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 17... | <.01 | E.21 | <.02 | <.002 | E.02 | E.042 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 24... | <.01 | <.03 | <.02 | --r | <.03 | --r | <.006 | --r | <.04 | --r | --r | <.01 | --r |
| JUL | | | | | | | | | | | | | |
| 09... | <.01 | <.03 | <.02 | <.002 | <.03 | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 23... | <.01 | <.03 | <.02 | <.002 | <.03 | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| AUG | | | | | | | | | | | | | |
| 05... | <.01 | <.03 | <.02 | <.002 | <.03 | <.041 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| 19... | <.01 | <.03 | <.02 | <.002 | M | E.007 | <.006 | <.020 | <.04 | <.005 | <.006 | <.01 | <.018 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442) | DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.01 | <.003 | E.03 | .099 | .04 | <.01 | <.005 | <.01 | <.02 | E.02 | <.002 | <.009 | <.005 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.01 | <.003 | E.01 | .039 | <.01 | <.01 | <.005 | <.01 | <.02 | <.01 | <.002 | <.009 | <.005 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | <.01 | <.003 | E.03 | .053 | .05 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | <.01 | <.003 | E.031 | .017 | E.01 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.01 | <.003 | E.043 | .013 | <.01 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.01 | <.003 | E.050 | .015 | <.01 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 13... | <.01 | <.003 | E.035 | .029 | .11 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 20... | <.01 | <.003 | E.028 | .242 | .06 | .04 | <.005 | <.01 | <.02 | .04 | <.002 | <.009 | <.005 |
| 27... | <.01 | <.003 | E.028 | .076 | .04 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| APR | | | | | | | | | | | | | |
| 02... | --u | <.003 | E.036 | .292 | .32 | <.01 | <.005 | <.01 | <.02 | E.04 | <.002 | <.009 | <.005 |
| 10... | <.01 | <.003 | E.022 | .157 | .11 | .02 | <.005 | <.01 | <.02 | .09 | <.002 | <.009 | <.005 |
| 16... | <.01 | <.003 | E.034 | .178 | .12 | <.01 | <.005 | <.01 | <.02 | E.03 | <.002 | <.009 | <.005 |
| 23... | <.01 | <.003 | E.058 | .014 | .10 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| MAY | | | | | | | | | | | | | |
| 07... | <.01 | <.003 | E.067 | .186 | <.01 | <.01 | <.005 | <.01 | <.02 | .03 | <.002 | <.009 | <.005 |
| 15... | <.01 | <.003 | E.072 | .306 | .08 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 21... | <.01 | <.003 | E.053 | .222 | .12 | <.01 | <.005 | <.01 | <.02 | .13 | <.002 | <.009 | <.005 |
| 30... | <.01 | <.003 | E.043 | .218 | .06 | <.01 | <.005 | <.01 | <.02 | .09 | <.002 | <.009 | <.005 |
| JUN | | | | | | | | | | | | | |
| 03... | <.01 | <.003 | E.056 | .081 | <.01 | <.01 | <.005 | <.01 | <.02 | E.04 | <.002 | <.009 | <.005 |
| 11... | <.01 | <.003 | E.073 | .048 | .04 | <.01 | <.005 | <.01 | <.02 | .05 | <.002 | <.009 | <.005 |
| 17... | <.01 | <.003 | E.050 | .162 | .05 | <.01 | <.005 | <.01 | <.02 | .99 | <.002 | <.009 | <.005 |
| 24... | <.01 | --r | E.05 | --r | <.01 | <.01 | --r | <.01 | --r | .21 | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 09... | <.01 | <.003 | E.062 | .048 | <.01 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| 23... | <.01 | <.003 | E.076 | .024 | <.01 | <.01 | <.005 | <.01 | <.02 | .02 | <.002 | <.009 | <.005 |
| AUG | | | | | | | | | | | | | |
| 05... | <.01 | <.003 | E.103 | .165 | <.01 | <.01 | <.005 | <.01 | <.02 | <.01 | <.002 | <.009 | <.005 |
| 19... | <.01 | <.003 | E.050 | .169 | <.01 | <.01 | <.005 | <.01 | <.02 | E.05 | <.002 | <.009 | <.005 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297) | FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) | LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482) | MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487) | METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501) | METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .03 | <.01 | <.008 | <.004 | E.006 | <.006 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .17 | <.01 | <.008 | <.004 | E.006 | <.006 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .05 | <.01 | <.008 | <.004 | E.004 | <.006 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .02 | <.01 | <.008 | <.004 | E.005 | <.006 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .12 | <.01 | <.008 | <.004 | E.005n | <.006 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .09 | <.01 | <.008 | <.004 | E.012n | <.006 |
| 13... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .16 | <.01 | <.008 | <.004 | .017 | <.006 |
| 20... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | E.011n | .30 | <.01 | <.008 | <.004 | 1.69 | <.006 |
| 27... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | <.06 | <.01 | <.008 | <.004 | .233 | <.006 |
| APR | | | | | | | | | | | | | |
| 02... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .02 | <.01 | <.008 | <.004 | .889 | <.006 |
| 10... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | E.004n | .08 | <.01 | <.008 | <.004 | .288 | <.006 |
| 16... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | E.10 | <.01 | <.008 | <.004 | .172 | <.006 |
| 23... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .02 | <.01 | <.008 | <.004 | .261 | <.006 |
| MAY | | | | | | | | | | | | | |
| 07... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .02 | <.01 | <.008 | <.004 | .071 | <.006 |
| 15... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .04 | <.01 | <.008 | <.004 | .116 | <.006 |
| 21... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | E.012n | .04 | <.01 | <.008 | <.004 | .107 | <.006 |
| 30... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | E.017n | E.01 | <.01 | <.008 | <.004 | .039 | <.006 |
| JUN | | | | | | | | | | | | | |
| 03... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | E.01 | <.01 | <.008 | <.004 | .070 | <.006 |
| 11... | <.03 | <.03 | <.003 | <.004 | .11 | <.035 | <.027 | <.02 | <.01 | <.008 | <.004 | .077 | <.006 |
| 17... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | .05 | <.01 | <.008 | <.004 | .046 | <.006 |
| 24... | <.03 | <.03 | --r | --r | <.01 | --r | --r | <.02 | <.01 | <.008 | <.004 | --r | --r |
| JUL | | | | | | | | | | | | | |
| 09... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | <.02 | <.01 | <.008 | <.004 | .044 | <.006 |
| 23... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | <.02 | <.01 | <.008 | <.004 | .062 | <.006 |
| AUG | | | | | | | | | | | | | |
| 05... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | <.02 | <.01 | <.008 | <.004 | .075 | <.006 |
| 19... | <.03 | <.03 | <.003 | <.004 | <.01 | <.035 | <.027 | <.02 | <.01 | <.008 | <.004 | .032 | <.006 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294) | NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293) | ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292) | OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.007 | <.006 | <.002 | .020 | <.011 | <.02 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.02 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.007 | <.006 | <.002 | .037 | <.011 | <.02 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .052 | <.011 | <.02 |
| 13... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .075 | <.011 | <.02 |
| 20... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .214 | <.011 | <.02 |
| 27... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .116 | <.011 | <.02 |
| APR | | | | | | | | | | | | | |
| 02... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .100 | <.011 | <.02 |
| 10... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .080 | <.011 | <.02 |
| 16... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .077 | <.011 | <.02 |
| 23... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| MAY | | | | | | | | | | | | | |
| 07... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .028 | <.011 | <.02 |
| 15... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .032 | <.011 | <.02 |
| 21... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | E.018n | <.011 | <.02 |
| 30... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | .024 | <.011 | <.02 |
| JUN | | | | | | | | | | | | | |
| 03... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | E.010n | <.011 | <.02 |
| 11... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| 17... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | E.013n | <.011 | <.02 |
| 24... | --r | --r | <.01 | <.02 | <.02 | <.01 | --r | --r | --r | --r | --r | --r | <.02 |
| JUL | | | | | | | | | | | | | |
| 09... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| 23... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| AUG | | | | | | | | | | | | | |
| 05... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| 19... | <.002 | <.007 | <.01 | <.02 | <.02 | <.01 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.02 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236) | PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 10... | E.01 | <.010 | <.011 | <.02 | <.010 | E.023 | <.004 | .664 | <.006 | <.041 | <.02 | <.005 | <.002 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 07... | <.01 | <.010 | <.011 | <.02 | <.010 | <.008 | <.004 | .891 | <.006 | <.034 | <.02 | <.005 | <.002 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 05... | E.01 | <.010 | <.011 | <.02 | <.010 | E.012 | <.004 | 1.10 | <.006 | <.034 | <.02 | <.005 | <.002 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 10... | E.01 | <.010 | <.011 | <.02 | <.010 | .008 | <.004 | .527 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13... | <.01 | <.010 | <.011 | <.02 | <.010 | E.005 | .023 | .437 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 05... | E.01n | <.010 | <.011 | <.02 | <.010 | <.008 | E.030 | .746 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 13... | <.01 | <.010 | <.011 | <.02 | <.010 | .009 | .034 | 1.05 | E.01 | <.034 | <.02 | <.005 | <.002 |
| 20... | <.01 | <.010 | <.011 | <.02 | <.010 | .014 | .016 | 3.38 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 27... | <.01 | <.010 | <.011 | <.02 | <.010 | E.006 | .018 | .858 | E.01 | <.034 | <.02 | <.005 | <.002 |
| APR | | | | | | | | | | | | | |
| 02... | <.01 | <.010 | <.011 | <.02 | <.010 | E.008 | <.004 | 1.86 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 10... | E.01n | <.010 | <.011 | <.02 | <.010 | <.008 | .019 | .783 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 16... | E.01n | <.010 | <.011 | <.02 | <.010 | E.004 | .025 | .362 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 23... | E.01n | <.010 | <.011 | <.02 | <.010 | E.005 | <.004 | .104 | E.03 | <.034 | <.02 | <.005 | <.002 |
| MAY | | | | | | | | | | | | | |
| 07... | E.01n | <.010 | <.011 | <.02 | <.010 | E.005 | <.004 | .315 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 15... | .02 | <.010 | <.011 | <.02 | <.010 | E.006 | <.025 | .281 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 21... | E.01n | <.010 | <.011 | <.02 | <.010 | <.008 | E.004n | .233 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 30... | .02 | <.010 | <.011 | <.02 | <.010 | .011 | <.004 | .154 | <.02 | <.034 | <.02 | <.005 | <.002 |
| JUN | | | | | | | | | | | | | |
| 03... | .02 | <.010 | <.011 | <.02 | <.010 | E.005 | <.011 | .121 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 11... | .02 | <.010 | <.011 | <.02 | <.010 | .009 | <.004 | .107 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 17... | .02 | <.010 | <.011 | <.02 | <.010 | .008 | <.004 | .106 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 24... | --r | --r | --r | --r | <.010 | E.004 | --r | --r | <.006 | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 09... | .02 | <.010 | <.011 | <.02 | <.010 | E.007 | <.004 | .071 | <.02 | <.034 | <.02 | <.005 | <.002 |
| 23... | E.01 | <.010 | <.011 | <.02 | <.010 | E.007 | <.015 | .056 | <.02 | <.034 | <.02 | <.005 | <.002 |
| AUG | | | | | | | | | | | | | |
| 05... | .03 | <.010 | <.011 | <.02 | <.010 | E.011 | <.004 | .070 | E.01n | <.034 | <.02 | <.005 | <.002 |
| 19... | .02 | <.010 | <.011 | <.02 | <.010 | E.011 | <.004 | .049 | <.02 | <.034 | <.02 | <.005 | <.002 |
| SEP | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08057200 White Rock Creek at Greenville Avenue, Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|
| OCT | | |
| 10... | <.02 | E.006 |
| 25... | -- | -- |
| NOV | | |
| 07... | <.02 | <.009 |
| 19... | -- | -- |
| DEC | | |
| 05... | .03 | <.009 |
| 20... | -- | -- |
| JAN | | |
| 10... | <.02 | <.009 |
| 25... | -- | -- |
| FEB | | |
| 13... | E.02 | <.009 |
| 19... | -- | -- |
| MAR | | |
| 05... | .03 | <.009 |
| 13... | <.06 | <.009 |
| 20... | .08 | E.005n |
| 27... | .02 | <.009 |
| APR | | |
| 02... | .05 | E.003n |
| 10... | .05 | E.003n |
| 16... | .03 | <.009 |
| 23... | .02 | <.009 |
| MAY | | |
| 07... | <.02 | <.009 |
| 15... | .03 | <.009 |
| 21... | <.02 | <.009 |
| 30... | <.02 | <.009 |
| JUN | | |
| 03... | <.02 | <.009 |
| 11... | <.02 | <.009 |
| 17... | <.02 | <.009 |
| 24... | <.02 | --r |
| JUL | | |
| 09... | <.02 | <.009 |
| 23... | <.02 | <.009 |
| AUG | | |
| 05... | <.02 | <.009 |
| 19... | <.02 | <.009 |
| SEP | | |
| 11... | -- | -- |

Remark codes used in this report:
  < -- Less than
  E -- Estimated value
  M -- Presence verified, not quantified

Value qualifier codes used in this report:
  n -- Below the NDV

Null value qualifier codes used in this report:
  r -- Sample ruined in preparation
  u -- Unable to determine-matrix interference

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## 08057410 Trinity River below Dallas, TX
(National Water-Quality Assessment Program)

LOCATION.--Lat 32°42′26", long 96°44′08", Dallas County, Hydrologic Unit 12030105, on right 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 $mi^2$.

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to Sept. 2002.
BIOCHEMICAL DATA: Oct. 1967 to Sept. 1998, Oct. 2001 to Sept. 2002.
PESTICIDE DATA: Oct. 1970 to July 1981, Oct. 1994 to Sept. 1998, Oct. 2001 to Sept. 2002.
SEDIMENT DATA: Apr. 1972 to Apr. 1975, Oct. 1998 to Sept. 1999.
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 units, Jan. 23, 1980; minimum, 6.5 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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, IN CUBIC FEET PER SECOND (00060) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 11... | 1200 | E680 | -- | -- | -- | -- | -- | 100 | 78.3 | 68.6 | 11.1 | .063 | 11.2 |
| NOV | | | | | | | | | | | | | |
| 05... | 1200 | E760 | 725 | 7.3 | 23.2 | 8.0 | 94 | 112 | 86.0 | 74.0 | 11.6 | .059 | 11.7 |
| DEC | | | | | | | | | | | | | |
| 04... | 1200 | E2470 | 700 | 7.5 | 19.1 | 8.8 | 96 | 128 | 84.4 | 65.5 | 9.06 | .022 | 9.08 |
| JAN | | | | | | | | | | | | | |
| 09... | 1130 | E225 | 735 | 7.6 | 13.6 | 10.0 | 98 | 115 | 101 | 68.3 | 10.9 | .017 | 10.9 |
| FEB | | | | | | | | | | | | | |
| 13... | 1030 | E880 | 669 | 7.5 | 12.9 | 10.0 | 95 | 130 | 95.6 | 48.1 | 7.24 | .030 | 7.27 |
| MAR | | | | | | | | | | | | | |
| 13... | 1030 | E485 | 796 | 7.6 | 16.6 | 10.0 | 104 | 131 | 106 | 71.4 | 10.2 | .023 | 10.2 |
| 26... | 0930 | E4030 | 447 | 7.8 | 13.6 | 9.8 | 94 | 126 | 55.8 | 25.8 | 2.03 | .016 | 2.05 |
| APR | | | | | | | | | | | | | |
| 09... | 1100 | E24000 | 298 | 7.5 | 16.7 | 7.7 | 80 | 91 | 35.6 | 10.7 | .77 | .027 | .80 |
| 23... | 0930 | E4450 | 413 | 7.8 | 19.9 | 9.3 | 102 | -- | -- | -- | 1.94 | .012 | 1.95 |
| MAY | | | | | | | | | | | | | |
| 14... | 0930 | E5300 | 400 | 7.6 | 22.0 | 7.8 | 90 | 116 | 41.4 | 18.9 | 1.69 | .018 | 1.71 |
| 29... | 1100 | E2080 | 550 | 7.6 | 24.1 | 7.3 | 88 | -- | -- | -- | 4.22 | .043 | 4.26 |
| JUN | | | | | | | | | | | | | |
| 12... | 1040 | E1400 | 544 | 7.3 | 27.0 | 7.5 | 96 | 119 | 59.1 | 39.5 | 3.94 | .026 | 3.96 |
| 25... | 1015 | E315 | 751 | 7.2 | 28.4 | 7.6 | 99 | -- | -- | -- | 10.7 | .032 | 10.7 |
| JUL | | | | | | | | | | | | | |
| 10... | 1145 | E365 | 628 | 7.5 | 30.1 | 12.5 | 165 | 106 | 73.3 | 51.2 | 7.05 | .016 | 7.07 |
| 24... | 1030 | E340 | 746 | 7.4 | 30.3 | 7.4 | 98 | -- | -- | -- | 8.39 | .043 | 8.43 |
| AUG | | | | | | | | | | | | | |
| 06... | 1130 | E265 | 743 | 7.4 | 30.1 | 7.3 | 99 | 104 | 84.5 | 71.9 | 11.0 | .045 | 11.0 |
| 20... | 1100 | E340 | 667 | 7.3 | 29.6 | 7.6 | 102 | 100 | 73.7 | 63.2 | 8.39 | .041 | 8.43 |
| SEP | | | | | | | | | | | | | |
| 12... | 1100 | E170 | 595 | 7.3 | 28.4 | 6.5 | 86 | 91 | 69.1 | 52.0 | 7.05 | .044 | 7.09 |

08057410 Trinity River below Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) | NITROGEN, TOTAL (MG/L AS N) (00600) | NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605) | NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOSPHORUS TOTAL (MG/L AS P) (00665) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681) | CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689) | SEDIMENT, SUSPENDED (MG/L) (80154) | 2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETOCHLOR, WATER FLTRD REC (UG/L) (49260) | ALACHLOR, WATER, DISS, REC, (UG/L) (46342) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 11... | .15 | 13 | 1.2 | 1.4 | 2.07 | 1.44 | 4.42 | 7.7 | .3 | 229 | <.002 | <.004 | <.002 |
| NOV | | | | | | | | | | | | | |
| 05... | .31 | 13 | 1.0 | 1.3 | 1.90 | 1.75 | 5.37 | 7.1 | 1.7 | 23 | <.002 | <.004 | <.002 |
| DEC | | | | | | | | | | | | | |
| 04... | .07 | 10 | .96 | 1.0 | 1.66 | 1.52 | 4.65 | 5.9 | 2.1 | 48 | <.002 | <.004 | <.002 |
| JAN | | | | | | | | | | | | | |
| 09... | .08 | 12 | 1.1 | 1.1 | 1.82 | 1.69 | 5.18 | 5.7 | 1.2 | 14 | <.006 | <.006 | <.004 |
| FEB | | | | | | | | | | | | | |
| 13... | <.04 | 8.4 | -- | 1.1 | 1.06 | .96 | 2.94 | 5.4 | 1.9 | 38 | <.006 | <.006 | <.004 |
| MAR | | | | | | | | | | | | | |
| 13... | <.04 | 11 | -- | 1.1 | 1.43 | 1.25 | 3.82 | 6.7 | 1.6 | -- | <.006 | <.006 | <.004 |
| 26... | .10 | 2.8 | .67 | .77 | .49 | .23 | .696 | -- | -- | 287 | <.006 | <.006 | .010 |
| APR | | | | | | | | | | | | | |
| 09... | .07 | 1.9 | .99 | 1.1 | .32 | .08 | .245 | 4.9 | 6.0 | 214 | <.006 | <.006 | .028 |
| 23... | <.04 | 2.4 | -- | .45 | .36 | .22 | .665 | -- | -- | -- | <.006 | .011 | <.004 |
| MAY | | | | | | | | | | | | | |
| 14... | E.03 | 2.5 | -- | .81 | .37 | .21 | .644 | 4.7 | 2.7 | 164 | <.006 | .014 | .088 |
| 29... | .20 | 5.7 | 1.2 | 1.4 | .84 | .59 | 1.80 | -- | -- | 175 | <.006 | <.006 | .026 |
| JUN | | | | | | | | | | | | | |
| 12... | .07 | 4.8 | .82 | .89 | .76 | .60 | 1.84 | 5.1 | 3.2 | 74 | <.006 | <.006 | .065 |
| 25... | .06 | 12 | 1.1 | 1.1 | 1.88 | 1.77 | 5.42 | -- | -- | 49 | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 10... | <.04 | 8.1 | -- | .98 | 1.25 | 1.08 | 3.31 | 5.1 | 2.7 | 51 | <.006 | <.006 | .011 |
| 24... | .17 | 9.5 | .87 | 1.0 | 1.91 | 1.76 | 5.39 | -- | -- | 38 | <.006 | <.006 | <.004 |
| AUG | | | | | | | | | | | | | |
| 06... | .20 | 12 | .89 | 1.1 | 2.13 | 1.90 | 5.82 | 5.8 | 1.7 | 44 | <.006 | <.006 | <.004 |
| 20... | .20 | 9.5 | .84 | 1.0 | 1.94 | 1.75 | 5.35 | -- | -- | 55 | <.006 | <.006 | <.004 |
| SEP | | | | | | | | | | | | | |
| 12... | E.03 | 8.2 | -- | 1.2 | 1.52 | 1.33 | 4.07 | 6.5 | 3.1 | 44 | <.006 | <.006 | <.004 |

| Date | ALPHA BHC DISSOLVED (UG/L) (34253) | ATRAZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYLATE, WATER, DISS, REC (UG/L) (04028) | CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLORPYRIFOS DISSOLVED (UG/L) (38933) | PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANAZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040) | DIAZINON, DISSOLVED (UG/L) (39572) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 11... | <.005 | .183 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.033 | <.030 |
| NOV | | | | | | | | | | | | | |
| 05... | <.005 | .208 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.027 | .021 |
| DEC | | | | | | | | | | | | | |
| 04... | <.005 | .150 | <.050 | <.010 | <.002 | E.006 | <.020 | <.005 | <.006 | <.018 | <.003 | E.034 | .025 |
| JAN | | | | | | | | | | | | | |
| 09... | <.005 | .143 | <.050 | <.010 | <.002 | E.017 | <.020 | <.005 | <.006 | <.018 | <.003 | E.030 | .012 |
| FEB | | | | | | | | | | | | | |
| 13... | <.005 | .444 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.033 | .029 |
| MAR | | | | | | | | | | | | | |
| 13... | <.005 | .344 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.029 | <.005 |
| 26... | <.005 | .805 | <.050 | <.010 | <.002 | E.011 | <.020 | <.005 | <.006 | <.018 | <.003 | E.032 | .034 |
| APR | | | | | | | | | | | | | |
| 09... | <.005 | 2.46 | <.050 | <.010 | <.002 | E.125 | <.020 | <.005 | <.006 | <.018 | <.003 | E.037 | .333 |
| 23... | <.005 | .024 | <.050 | <.010 | <.002 | E.069 | <.020 | <.005 | <.006 | <.018 | <.003 | E.007 | .052 |
| MAY | | | | | | | | | | | | | |
| 14... | <.005 | .660 | <.050 | <.010 | <.002 | E.037 | <.020 | <.005 | <.006 | <.018 | <.003 | E.052 | .074 |
| 29... | <.005 | .564 | <.050 | <.010 | <.002 | E.061 | <.020 | <.005 | <.006 | <.018 | <.003 | E.053 | .091 |
| JUN | | | | | | | | | | | | | |
| 12... | <.005 | .486 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.061 | .020 |
| 25... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 10... | <.005 | .375 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.059 | .026 |
| 24... | <.005 | .276 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.054 | .026 |
| AUG | | | | | | | | | | | | | |
| 06... | <.005 | .311 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.073 | .034 |
| 20... | <.005 | .281 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.059 | .043 |
| SEP | | | | | | | | | | | | | |
| 12... | <.005 | .293 | <.050 | <.010 | <.002 | E.010 | <.020 | <.005 | <.006 | <.018 | <.003 | E.067 | .024 |

08057410 Trinity River below Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 11... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.006 | <.035 | <.027 | <.013 | <.006 | <.002 | <.007 |
| NOV | | | | | | | | | | | | | |
| 05... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.004 | <.006 | <.002 | <.007 |
| DEC | | | | | | | | | | | | | |
| 04... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.005 | <.006 | <.002 | <.007 |
| JAN | | | | | | | | | | | | | |
| 09... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.007 | <.006 | <.002 | <.007 |
| FEB | | | | | | | | | | | | | |
| 13... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.005n | <.006 | <.002 | <.007 |
| MAR | | | | | | | | | | | | | |
| 13... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.009n | <.006 | <.002 | <.007 |
| 26... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .066 | <.006 | <.002 | <.007 |
| APR | | | | | | | | | | | | | |
| 09... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .020 | <.006 | <.002 | <.007 |
| 23... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .035 | <.006 | <.002 | <.007 |
| MAY | | | | | | | | | | | | | |
| 14... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .033 | <.006 | <.002 | <.007 |
| 29... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | E.020n | .032 | <.006 | <.002 | <.007 |
| JUN | | | | | | | | | | | | | |
| 12... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .027 | <.006 | <.002 | <.007 |
| 25... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 10... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | .009 | <.035 | <.027 | .019 | <.006 | <.010 | <.007 |
| 24... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.013 | <.035 | <.027 | .014 | <.006 | <.002 | <.007 |
| AUG | | | | | | | | | | | | | |
| 06... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | .008 | <.035 | <.027 | .020 | <.010 | <.002 | <.007 |
| 20... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .014 | <.006 | <.002 | <.007 |
| SEP | | | | | | | | | | | | | |
| 12... | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .013 | <.006 | <.002 | <.007 |

| Date | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 11... | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .101 | .03 |
| NOV | | | | | | | | | | | | | |
| 05... | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .185 | .02 |
| DEC | | | | | | | | | | | | | |
| 04... | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | E.01 | <.010 | <.011 | <.02 | <.004 | .240 | E.06 |
| JAN | | | | | | | | | | | | | |
| 09... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | E.01 | <.010 | <.011 | <.02 | <.004 | .425 | .04 |
| FEB | | | | | | | | | | | | | |
| 13... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .836 | .06 |
| MAR | | | | | | | | | | | | | |
| 13... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .354 | E.04 |
| 26... | <.003 | <.010 | <.006 | <.004 | E.021n | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .382 | E.07 |
| APR | | | | | | | | | | | | | |
| 09... | <.003 | <.010 | <.006 | <.004 | .066 | <.011 | E.01n | <.010 | <.011 | <.02 | <.004 | .453 | .06 |
| 23... | <.003 | <.010 | <.006 | <.004 | .025 | <.011 | .07 | <.010 | <.011 | <.02 | <.004 | .287 | <.02 |
| MAY | | | | | | | | | | | | | |
| 14... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .176 | .04 |
| 29... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .02 | <.010 | <.011 | <.02 | <.004 | .141 | .04 |
| JUN | | | | | | | | | | | | | |
| 12... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .127 | .06 |
| 25... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 10... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .03 | <.010 | <.011 | <.02 | <.004 | .083 | E.10 |
| 24... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | E.01 | <.010 | <.011 | <.02 | <.004 | .053 | .06 |
| AUG | | | | | | | | | | | | | |
| 06... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .02 | <.010 | <.011 | <.02 | <.010 | .073 | E.08 |
| 20... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .02 | <.010 | <.011 | <.02 | <.004 | .060 | E.10 |
| SEP | | | | | | | | | | | | | |
| 12... | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .03 | <.010 | <.011 | <.02 | <.004 | .075 | .04 |

08057410 Trinity River below Dallas, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|
| OCT | | | | | |
| 11... | <.034 | <.02 | <.005 | <.002 | <.009 |
| NOV | | | | | |
| 05... | <.034 | <.02 | <.005 | <.002 | <.009 |
| DEC | | | | | |
| 04... | <.034 | <.02 | <.005 | <.002 | <.009 |
| JAN | | | | | |
| 09... | <.034 | <.02 | <.005 | <.002 | <.009 |
| FEB | | | | | |
| 13... | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAR | | | | | |
| 13... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 26... | <.034 | <.02 | <.005 | <.002 | <.009 |
| APR | | | | | |
| 09... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 23... | <.034 | <.02 | <.005 | <.002 | E.007n |
| MAY | | | | | |
| 14... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 29... | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUN | | | | | |
| 12... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 25... | --r | --r | --r | --r | --r |
| JUL | | | | | |
| 10... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 24... | <.034 | <.02 | <.005 | <.002 | <.009 |
| AUG | | | | | |
| 06... | <.034 | <.02 | <.005 | <.002 | <.009 |
| 20... | <.034 | <.02 | <.005 | <.002 | <.009 |
| SEP | | | | | |
| 12... | <.034 | <.02 | <.005 | <.002 | <.009 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
n -- Below the NDV

Null value qualifier codes used in this report:
r -- Sample ruined in preparation

## 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 $mi^2$.

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.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. No flow at times.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.23 | 0.23 | 5.5 | 0.87 | 1.2 | 1.0 | 13 | e0.86 | 0.42 | 28 | 0.14 | 0.17 |
| 2 | 0.36 | 0.24 | e5.3 | 0.57 | 1.9 | 0.94 | 7.2 | e0.89 | 0.30 | 33 | 0.09 | 0.07 |
| 3 | 0.24 | 0.24 | e5.2 | 0.48 | 1.9 | 0.96 | 3.3 | e7.4 | 0.20 | 17 | 0.08 | 0.05 |
| 4 | 0.17 | 0.23 | e5.1 | 0.71 | 1.4 | 1.1 | 1.7 | 13 | 0.16 | 4.4 | 0.07 | 0.04 |
| 5 | 74 | 0.20 | e5.5 | 1.1 | 1.0 | 0.99 | 1.3 | 389 | 0.14 | 1.5 | 0.08 | 0.04 |
| 6 | 8.1 | 0.17 | e11 | 2.1 | 0.87 | 1.0 | 5.6 | 30 | 0.12 | 0.65 | 0.09 | 0.04 |
| 7 | 0.63 | 0.16 | e7.5 | 0.99 | 1.4 | 1.4 | e111 | 9.3 | 0.11 | 0.38 | 0.09 | 0.03 |
| 8 | 0.18 | 0.13 | e5.4 | 1.3 | 3.7 | 1.2 | e320 | 4.8 | 0.10 | 0.27 | 0.08 | 23 |
| 9 | 0.13 | 0.13 | e4.9 | 1.3 | 3.3 | 4.0 | e14 | 3.2 | 0.20 | 0.19 | 0.07 | 20 |
| 10 | 0.18 | 0.13 | e4.8 | 1.3 | 1.3 | 2.5 | 3.8 | 16 | 0.22 | 0.15 | 145 | 2.7 |
| 11 | 151 | 3.5 | e5.6 | 1.0 | 1.2 | 2.5 | 2.3 | 5.4 | 0.20 | 1.7 | 13 | 0.94 |
| 12 | 9.1 | 3.6 | e7.2 | 0.96 | 1.3 | 1.9 | 2.2 | 2.7 | 0.26 | 151 | 2.9 | 0.32 |
| 13 | 93 | 2.2 | e8.6 | 0.86 | 1.2 | 2.0 | 1.8 | 43 | 0.34 | 17 | 1.3 | 0.15 |
| 14 | 6.6 | 0.64 | e9.1 | 1.4 | 0.99 | 2.1 | 5.6 | 6.6 | 0.41 | 8.8 | 0.85 | 0.08 |
| 15 | 1.7 | 0.27 | e5.9 | 1.3 | 1.0 | 2.2 | 2.8 | 2.6 | 0.45 | 37 | 0.57 | 0.06 |
| 16 | 0.74 | 0.19 | e345 | 2.1 | 0.84 | 2.2 | e4.2 | 1.5 | 32 | 10 | 0.33 | 0.05 |
| 17 | 0.61 | 0.27 | e39 | 2.5 | 0.97 | 3.4 | e4.7 | 92 | 5.8 | 55 | 0.22 | 0.05 |
| 18 | 0.68 | 0.38 | 11 | 1.5 | 1.1 | 29 | e2.7 | 14 | 1.3 | 40 | 0.16 | 0.04 |
| 19 | 0.71 | 0.23 | e4.1 | 1.7 | 1.2 | e341 | e2.0 | 3.8 | 0.41 | 5.1 | 0.13 | 116 |
| 20 | 0.53 | 1.3 | e2.5 | 2.4 | 1.4 | 24 | e1.7 | 2.2 | 0.24 | 2.3 | 0.08 | 64 |
| 21 | 0.52 | 4.2 | e11 | 2.5 | 1.1 | 6.6 | e1.4 | 1.2 | 0.15 | 1.2 | 0.07 | 4.7 |
| 22 | 0.44 | 1.6 | e3.6 | 3.0 | 1.00 | 2.3 | e1.3 | 0.82 | 0.11 | 0.62 | 0.06 | 1.6 |
| 23 | 0.33 | 2.2 | e9.4 | 21 | 0.85 | 2.1 | e1.2 | 0.89 | 0.09 | 0.34 | 0.06 | 0.45 |
| 24 | 0.23 | 8.7 | e3.8 | 3.8 | 0.86 | 2.0 | e1.2 | 0.66 | 0.09 | 0.21 | 0.06 | 0.18 |
| 25 | 0.28 | e6.3 | e3.0 | 2.8 | 0.92 | 2.2 | e1.1 | 0.54 | 0.09 | 0.14 | 0.08 | 0.09 |
| 26 | 0.28 | e5.5 | e10 | 2.1 | 0.85 | 2.2 | e3.1 | 0.46 | 0.23 | 0.11 | 0.23 | 0.07 |
| 27 | 0.25 | 5.0 | 2.2 | 1.4 | 0.85 | 1.4 | e1.7 | 0.41 | 0.18 | 0.09 | 81 | 0.08 |
| 28 | 0.26 | 4.9 | 1.7 | 1.3 | 0.88 | 1.4 | e1.0 | 3.1 | 0.16 | 0.12 | 12 | 0.08 |
| 29 | 0.26 | 5.0 | 1.3 | 1.3 | --- | 1.4 | e0.80 | 42 | 4.0 | 0.14 | 2.8 | 0.09 |
| 30 | 0.24 | 6.5 | 0.98 | 1.0 | --- | 152 | e0.77 | 4.2 | 2.9 | 0.15 | 1.0 | 0.10 |
| 31 | 0.23 | --- | 0.89 | e376 | --- | 32 | --- | 0.92 | --- | 0.16 | 0.38 | --- |
| TOTAL | 352.21 | 64.34 | 546.07 | 442.64 | 36.48 | 630.99 | 524.47 | 703.45 | 51.38 | 416.72 | 263.07 | 235.27 |
| MEAN | 11.36 | 2.145 | 17.62 | 14.28 | 1.303 | 20.35 | 17.48 | 22.69 | 1.713 | 13.44 | 8.486 | 7.842 |
| MAX | 151 | 8.7 | 345 | 376 | 3.7 | 341 | 320 | 389 | 32 | 151 | 145 | 116 |
| MIN | 0.13 | 0.13 | 0.89 | 0.48 | 0.84 | 0.94 | 0.77 | 0.41 | 0.09 | 0.09 | 0.06 | 0.03 |
| AC-FT | 699 | 128 | 1080 | 878 | 72 | 1250 | 1040 | 1400 | 102 | 827 | 522 | 467 |

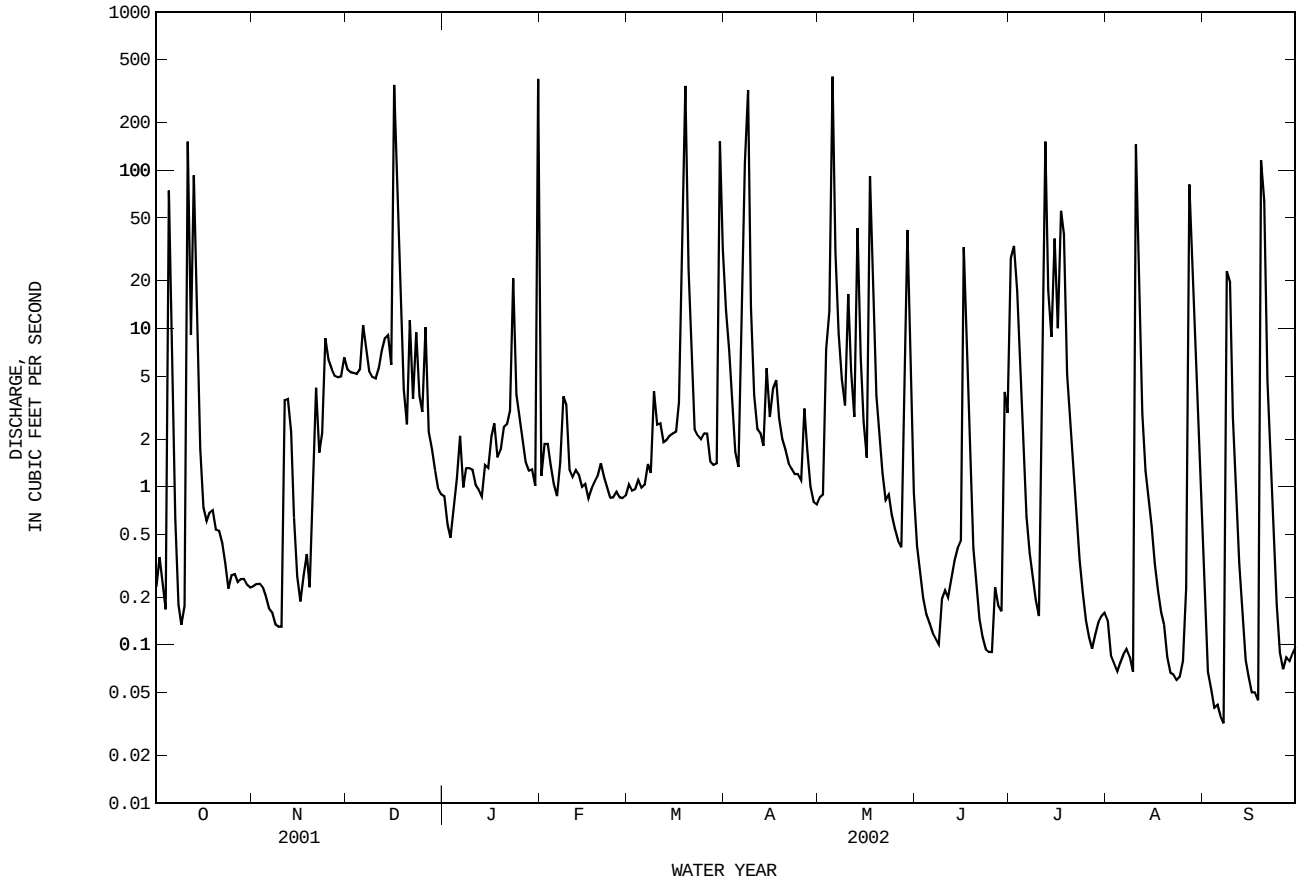
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 11.43 | 8.986 | 11.70 | 7.053 | 11.13 | 11.71 | 11.97 | 16.56 | 9.150 | 3.984 | 2.495 | 3.449 |
| MAX | 46.3 | 43.1 | 40.2 | 19.8 | 41.6 | 27.0 | 42.2 | 72.4 | 51.1 | 24.9 | 15.3 | 10.4 |
| (WY) | 1995 | 1995 | 1999 | 1990 | 1997 | 2001 | 1990 | 1989 | 2000 | 1994 | 2001 | 2001 |
| MIN | 0.000 | 0.33 | 0.42 | 0.12 | 0.34 | 1.28 | 0.66 | 0.64 | 0.32 | 0.000 | 0.000 | 0.003 |
| (WY) | 1976 | 1990 | 1978 | 1976 | 1976 | 1996 | 1978 | 1977 | 1978 | 1980 | 1980 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1976 - 2002h | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 3705.44 | | 4267.09 | | | |
| ANNUAL MEAN | 10.15 | | 11.69 | | 9.269 | |
| HIGHEST ANNUAL MEAN | | | | | 17.4 | 1995 |
| LOWEST ANNUAL MEAN | | | | | 1.61 | 1978 |
| HIGHEST DAILY MEAN | 345 | Dec 16 | 389 | May 5 | 1150 | May 17 1989 |
| LOWEST DAILY MEAN | 0.09 | May 15 | 0.03 | Sep 7 | 0.00 | Oct 1 1975 |
| ANNUAL SEVEN-DAY MINIMUM | 0.12 | Jul 23 | 0.06 | Sep 1 | 0.00 | Oct 1 1975 |
| MAXIMUM PEAK FLOW | | | 2140 | May 5 | 5660 | May 17 1989 |
| MAXIMUM PEAK STAGE | | | 22.76 | May 5 | 29.21 | May 17 1989 |
| ANNUAL RUNOFF (AC-FT) | 7350 | | 8460 | | 6710 | |
| 10 PERCENT EXCEEDS | 14 | | 14 | | 11 | |
| 50 PERCENT EXCEEDS | 1.4 | | 1.3 | | 1.0 | |
| 90 PERCENT EXCEEDS | 0.15 | | 0.11 | | 0.02 | |

e Estimated
h See PERIOD OF RECORD paragraph.

08057445 Prairie Creek at U.S. Highway 175, Dallas, TX--Continued



## 08057448 Trinity River near Wilmer, TX

LOCATION.--Lat 32°37′03", long 96°37′19", Dallas County, Hydrologic Unit 12030105, on left bank at downstream side of bridge on Belt Line Road, 2.6 mi downstream from Prairie Creek, 4.4 mi northeast of Wilmer, 5.1 mi upstream from Tenmile Creek, and at mile 504.4.

DRAINAGE AREA.--6,387 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1998 to Sept. 2002 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 345.95 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1998, 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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 763 | 784 | 814 | 741 | 12300 | 975 | 11800 | 5060 | 1350 | 3200 | 860 | 746 |
| 2 | 788 | 769 | 751 | 684 | 14700 | 962 | 6920 | 4930 | 1260 | 3860 | 751 | 693 |
| 3 | 784 | 794 | 684 | 708 | 8370 | 1170 | 5870 | 5190 | 1170 | 3770 | 662 | 729 |
| 4 | 807 | 770 | 718 | 736 | 3570 | 1160 | 6240 | 5580 | 1100 | 4380 | 580 | 728 |
| 5 | 1160 | 804 | 665 | 784 | 3580 | 1020 | 6280 | 7830 | 986 | 2600 | 569 | 742 |
| 6 | 1390 | 817 | 735 | 854 | 7190 | 1020 | 6810 | 10900 | 999 | 1690 | 597 | 769 |
| 7 | 983 | 769 | 1150 | 865 | 6850 | 918 | 7270 | 11800 | 1170 | 1940 | 574 | 773 |
| 8 | 844 | 752 | 906 | 789 | 4160 | 894 | 10500 | 8680 | 1430 | 1180 | 586 | 815 |
| 9 | 815 | 792 | 718 | 767 | 3230 | 1050 | 17200 | 4670 | 1850 | 1060 | 617 | 1220 |
| 10 | 802 | 971 | 619 | 754 | 2330 | 1040 | 18900 | 4470 | 1940 | 995 | 2200 | 1740 |
| 11 | 2510 | 937 | 627 | 760 | 2240 | 885 | 12500 | 6210 | 2140 | 822 | 4520 | 1080 |
| 12 | 4430 | 1320 | 925 | 768 | 1790 | 909 | 8160 | 6150 | 2000 | 3610 | 3110 | 837 |
| 13 | 4620 | 1470 | 1130 | 1160 | 1540 | 888 | 7760 | 6790 | 1510 | 2940 | 1360 | 742 |
| 14 | 4550 | 1190 | 1480 | 742 | 1390 | 884 | 7620 | 6710 | 1800 | 1430 | 1090 | 660 |
| 15 | 2020 | 962 | 1240 | 725 | 1320 | 900 | 7300 | 5690 | 1640 | 1380 | 1920 | 551 |
| 16 | 1380 | 969 | 7030 | 687 | 1240 | 874 | 6840 | 5390 | 2040 | 1800 | 1650 | 582 |
| 17 | 1130 | 903 | 11300 | 690 | 1160 | 820 | 7760 | 5630 | 2780 | 1410 | 1110 | 811 |
| 18 | 1110 | 958 | 9930 | 682 | 1140 | 1130 | 9090 | 7200 | 1570 | 2050 | 1020 | 738 |
| 19 | 963 | 1050 | 3610 | 690 | 1200 | 4170 | 8390 | 6100 | 1060 | 1270 | 913 | 1290 |
| 20 | 1000 | 857 | 1650 | 724 | 1480 | 10100 | 7390 | 4720 | 902 | 1010 | 976 | 1710 |
| 21 | 901 | 719 | 1310 | 699 | 1170 | 18200 | 6490 | 4420 | 855 | 816 | 969 | 1300 |
| 22 | 896 | 683 | 1890 | 720 | 1090 | 20800 | 5960 | 4180 | 1100 | 740 | 843 | 904 |
| 23 | 834 | 641 | 1120 | 989 | 1010 | 15300 | 5810 | 3610 | 838 | 714 | 797 | 775 |
| 24 | 880 | 633 | 1600 | 2680 | 953 | 9260 | 5940 | 2920 | 695 | 699 | 770 | 642 |
| 25 | 841 | 596 | 866 | 4820 | 956 | 6510 | 5590 | 2300 | 660 | 670 | 719 | 538 |
| 26 | 814 | 617 | 1370 | 2460 | 995 | 5190 | 5960 | 1920 | 796 | 659 | 755 | 500 |
| 27 | 741 | 657 | 1220 | 1230 | 1010 | 5500 | 6050 | 2170 | 1180 | 639 | 1900 | 486 |
| 28 | 761 | 868 | 794 | 1030 | 900 | 5490 | 5710 | 2000 | 1220 | 632 | 2030 | 458 |
| 29 | 769 | 1470 | 798 | 998 | --- | 4410 | 5330 | 2860 | 2520 | 614 | 1250 | 440 |
| 30 | 801 | 1200 | 788 | 999 | --- | 7360 | 5160 | 2690 | 1430 | 724 | 934 | 462 |
| 31 | 781 | --- | 751 | 5380 | --- | 11500 | --- | 1680 | --- | 1090 | 796 | --- |
| TOTAL | 41868 | 26722 | 59189 | 37315 | 88864 | 141289 | 238600 | 160450 | 41991 | 50394 | 37428 | 24461 |
| MEAN | 1351 | 890.7 | 1909 | 1204 | 3174 | 4558 | 7953 | 5176 | 1400 | 1626 | 1207 | 815.4 |
| MAX | 4620 | 1470 | 11300 | 5380 | 14700 | 20800 | 18900 | 11800 | 2780 | 4380 | 4520 | 1740 |
| MIN | 741 | 596 | 619 | 682 | 900 | 820 | 5160 | 1680 | 660 | 614 | 569 | 440 |
| AC-FT | 83050 | 53000 | 117400 | 74010 | 176300 | 280200 | 473300 | 318300 | 83290 | 99960 | 74240 | 48520 |

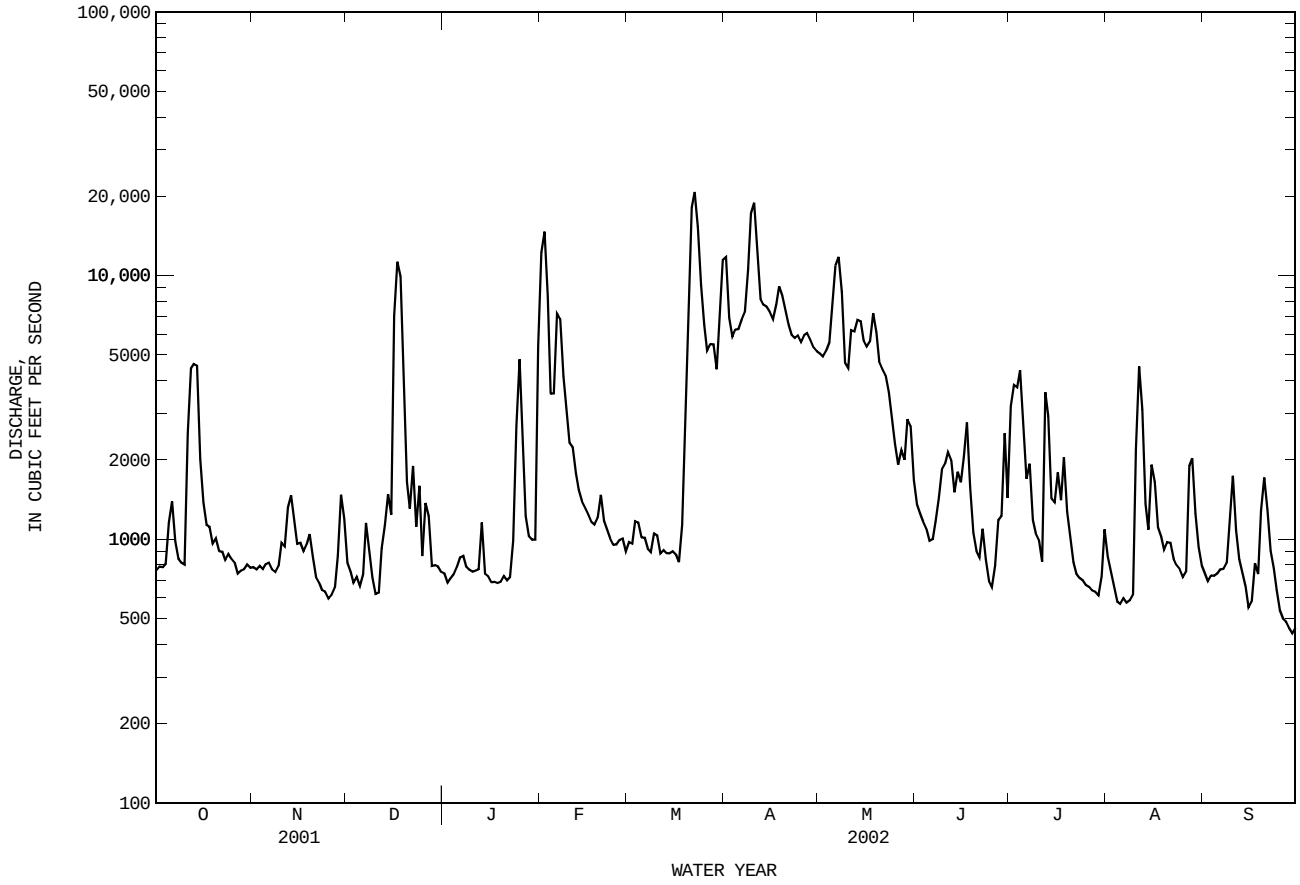
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 1514 | 1773 | 2470 | 1427 | 3001 | 4692 | 4118 | 3294 | 2393 | 1308 | 924.1 | 1105 |
| MAX | 2174 | 3029 | 4196 | 2096 | 6242 | 10710 | 7953 | 5176 | 5069 | 1626 | 1207 | 2083 |
| (WY) | 1999 | 2001 | 1999 | 2001 | 2001 | 2001 | 2002 | 2002 | 2000 | 2002 | 2002 | 2001 |
| MIN | 997 | 891 | 1535 | 1019 | 1176 | 1567 | 1434 | 1829 | 1085 | 783 | 581 | 593 |
| (WY) | 2000 | 2002 | 2000 | 2000 | 1999 | 2000 | 2000 | 2000 | 2001 | 2000 | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1999 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 1153208 | | 948571 | | | |
| ANNUAL MEAN | 3159 | | 2599 | | 2330 | |
| HIGHEST ANNUAL MEAN | | | | | 3379 | 2001 |
| LOWEST ANNUAL MEAN | | | | | 1480 | 2000 |
| HIGHEST DAILY MEAN | 32500 | Feb 17 | 20800 | Mar 22 | e32500 | Feb 17 2001 |
| LOWEST DAILY MEAN | 596 | Nov 25 | 440 | Sep 29 | 440 | Sep 29 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 649 | Nov 21 | 504 | Sep 24 | 504 | Sep 24 2002 |
| MAXIMUM PEAK FLOW | | | 21800 | Mar 22 | b21800 | Mar 22 2002 |
| MAXIMUM PEAK STAGE | | | 27.36 | Mar 22 | 27.36 | Mar 22 2002 |
| INSTANTANEOUS LOW FLOW | | | | | 321 | Sep 30 2002 |
| ANNUAL RUNOFF (AC-FT) | 2287000 | | 1881000 | | 1688000 | |
| 10 PERCENT EXCEEDS | 8390 | | 6820 | | 6130 | |
| 50 PERCENT EXCEEDS | 1290 | | 1110 | | 1030 | |
| 90 PERCENT EXCEEDS | 741 | | 689 | | 660 | |

e Estimated
b Maximum discharge for period of record occurred Feb. 17, 2001, discharge unknown.

08057448 Trinity River near Wilmer, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 2000 to Sept. 2001.
BIOCHEMICAL DATA: Oct. 2000 to Sept. 2001.
PESTICIDE DATA: Oct. 2000 to Sept. 2001.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct. 1999 to Sept. 2002 (discontinued).
pH: Oct. 1999 to Sept. 2002 (discontinued).
WATER TEMPERATURE: Oct. 1999 to Sept. 2002 (discontinued).
DISSOLVED OXYGEN: Oct. 1999 to Sept. 2002 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Oct. 1999.

REMARKS.--Records fair. Interruption in the record was 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 842 microsiemens/cm, Aug. 24, 2000; minimum, 199 microsiemens/cm, May 19, 2000.
pH: Maximum, 8.5 units, May 19, 2000; minimum, 6.3 units, Jan. 31, 2002.
WATER TEMPERATURE: Maximum, 32.1°C, July 24, 25, 2001; minimum, 7.8°C, Feb. 26, 2002.
DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Mar. 28, 2001, Feb. 6, 2002; minimum, 2.5 mg/L, Aug. 11, 2002.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 796 microsiemens/cm, Mar. 18; minimum, 221 microsiemens/cm, Aug. 10.
pH: Maximum, 8.3 units, on several days; minimum, 6.3 units, Jan. 31.
WATER TEMPERATURE: Maximum, 32.0°C, July 25; minimum, 7.8°C, Feb. 26.
DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Feb. 6; minimum, 2.5 mg/L, Aug. 11.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 733 | 723 | 729 | 746 | 715 | 732 | 657 | 635 | 646 | 717 | 703 | 709 |
| 2 | 729 | 720 | 724 | 726 | 712 | 717 | 685 | 655 | 670 | 728 | 717 | 724 |
| 3 | 732 | 722 | 727 | 728 | 712 | 722 | 714 | 682 | 695 | 723 | 709 | 716 |
| 4 | 752 | 732 | 745 | 744 | 727 | 736 | 722 | 699 | 711 | 732 | 720 | 726 |
| 5 | 742 | 586 | 723 | 747 | 726 | 735 | 735 | 714 | 720 | 744 | 732 | 739 |
| 6 | 674 | 506 | 593 | 733 | 712 | 725 | 743 | 728 | 737 | 743 | 722 | 734 |
| 7 | 676 | 633 | 651 | 719 | 708 | 714 | 729 | 706 | 721 | 737 | 720 | 728 |
| 8 | 726 | 676 | 705 | 735 | 707 | 723 | 706 | 653 | 685 | 747 | 732 | 739 |
| 9 | 744 | 721 | 733 | 723 | 708 | 716 | 690 | 650 | 678 | 754 | 744 | 749 |
| 10 | 751 | 723 | 734 | 727 | 690 | 706 | 730 | 687 | 709 | 751 | 739 | 744 |
| 11 | 728 | 380 | 597 | 762 | 684 | 726 | 736 | 723 | 728 | 746 | 733 | 738 |
| 12 | 467 | 377 | 417 | 721 | 650 | 686 | 741 | 705 | 729 | 760 | 729 | 740 |
| 13 | 421 | 320 | 372 | 680 | 626 | 645 | 725 | 681 | 715 | 774 | 593 | 699 |
| 14 | 408 | 376 | 392 | 706 | 613 | 673 | 681 | 600 | 638 | 748 | 604 | 674 |
| 15 | --- | --- | --- | 613 | 606 | 610 | 639 | 616 | 627 | 750 | 737 | 745 |
| 16 | --- | --- | --- | --- | --- | --- | 636 | 234 | 387 | 752 | 740 | 745 |
| 17 | --- | --- | --- | --- | --- | --- | 365 | 352 | 358 | 770 | 752 | 760 |
| 18 | --- | --- | --- | --- | --- | --- | 383 | 356 | 365 | 756 | 737 | 746 |
| 19 | --- | --- | --- | --- | --- | --- | 493 | 383 | 437 | 761 | 738 | 747 |
| 20 | --- | --- | --- | --- | --- | --- | 576 | 493 | 540 | 773 | 745 | 760 |
| 21 | --- | --- | --- | --- | --- | --- | 627 | 576 | 610 | 770 | 745 | 753 |
| 22 | --- | --- | --- | --- | --- | --- | 684 | 552 | 599 | 777 | 740 | 762 |
| 23 | --- | --- | --- | --- | --- | --- | 665 | 559 | 610 | 745 | 704 | 725 |
| 24 | --- | --- | --- | --- | --- | --- | 717 | 570 | 630 | 716 | 457 | 610 |
| 25 | --- | --- | --- | --- | --- | --- | 664 | 573 | 606 | 491 | 438 | 463 |
| 26 | --- | --- | --- | --- | --- | --- | 726 | 539 | 683 | 521 | 468 | 499 |
| 27 | 713 | 700 | 708 | --- | --- | --- | 566 | 539 | 552 | 595 | 521 | 569 |
| 28 | 730 | 711 | 724 | --- | --- | --- | 709 | 566 | 643 | 665 | 595 | 641 |
| 29 | 748 | 720 | 735 | --- | --- | --- | 713 | 701 | 707 | 693 | 662 | 681 |
| 30 | 737 | 716 | 730 | --- | --- | --- | 712 | 685 | 696 | 712 | 684 | 701 |
| 31 | 729 | 717 | 723 | --- | --- | --- | 718 | 703 | 712 | 708 | 288 | 504 |
| MONTH | --- | --- | --- | --- | --- | --- | 743 | 234 | 630 | 777 | 288 | 696 |

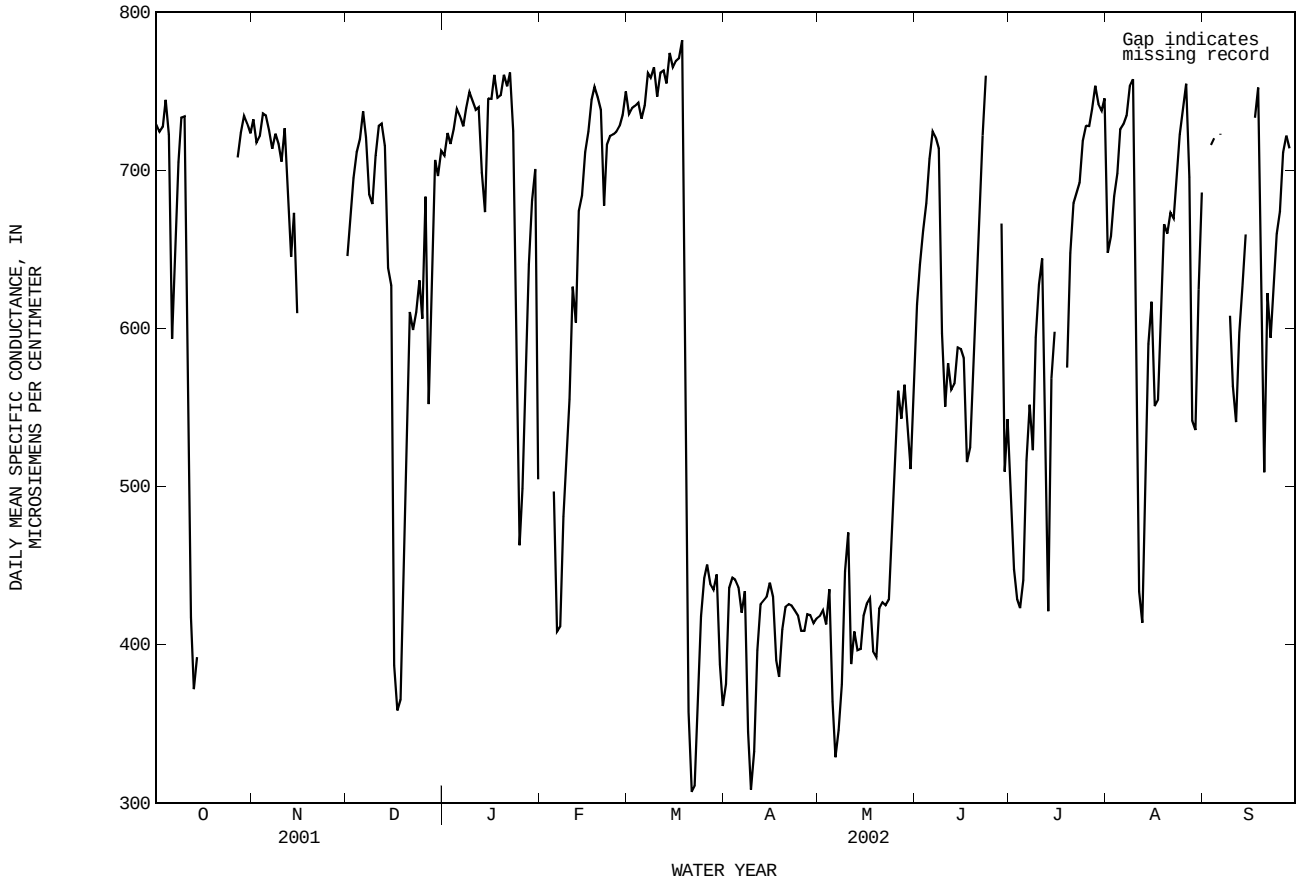
08057448 Trinity River near Wilmer, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 743 | 730 | 735 | 396 | 359 | 375 | 421 | 416 | 418 |
| 2 | --- | --- | --- | 746 | 733 | 739 | 474 | 396 | 436 | 424 | 419 | 422 |
| 3 | --- | --- | --- | 761 | 724 | 741 | 456 | 434 | 442 | 425 | 387 | 413 |
| 4 | --- | --- | --- | 752 | 729 | 743 | 455 | 429 | 441 | 451 | 417 | 435 |
| 5 | 557 | 427 | 497 | 746 | 722 | 733 | 455 | 424 | 436 | 448 | 271 | 364 |
| 6 | 427 | 397 | 408 | 765 | 718 | 741 | 436 | 391 | 420 | 335 | 314 | 329 |
| 7 | 445 | 396 | 411 | 767 | 757 | 761 | 450 | 424 | 434 | 361 | 334 | 346 |
| 8 | 509 | 445 | 481 | 766 | 753 | 758 | 426 | 319 | 345 | 404 | 361 | 375 |
| 9 | 532 | 506 | 517 | 776 | 760 | 765 | 322 | 303 | 308 | 487 | 404 | 446 |
| 10 | 603 | 530 | 555 | 778 | 734 | 747 | 364 | 308 | 333 | 509 | 384 | 471 |
| 11 | 659 | 583 | 626 | 772 | 746 | 762 | 420 | 364 | 396 | 418 | 349 | 388 |
| 12 | 641 | 585 | 604 | 774 | 757 | 763 | 441 | 417 | 426 | 419 | 388 | 408 |
| 13 | 684 | 641 | 674 | 771 | 749 | 755 | 444 | 421 | 428 | 406 | 379 | 396 |
| 14 | 704 | 671 | 684 | 777 | 771 | 774 | 445 | 421 | 430 | 407 | 385 | 397 |
| 15 | 719 | 704 | 712 | 774 | 759 | 765 | 447 | 432 | 439 | 425 | 407 | 418 |
| 16 | 734 | 719 | 725 | 777 | 764 | 769 | 435 | 426 | 430 | 431 | 424 | 426 |
| 17 | 753 | 734 | 744 | 776 | 764 | 771 | 435 | 339 | 390 | 437 | 406 | 429 |
| 18 | 762 | 737 | 753 | 796 | 750 | 782 | 397 | 361 | 380 | 413 | 376 | 396 |
| 19 | 755 | 730 | 746 | 790 | 430 | 598 | 421 | 397 | 410 | 410 | 373 | 392 |
| 20 | 780 | 668 | 738 | 430 | 330 | 357 | 427 | 421 | 424 | 430 | 410 | 423 |
| 21 | 701 | 664 | 677 | 331 | 291 | 307 | 427 | 423 | 426 | 431 | 422 | 427 |
| 22 | 724 | 701 | 716 | 335 | 292 | 311 | 429 | 421 | 425 | 430 | 422 | 425 |
| 23 | 736 | 705 | 722 | 396 | 335 | 365 | 425 | 417 | 422 | 439 | 424 | 428 |
| 24 | 727 | 721 | 723 | 432 | 396 | 418 | 426 | 415 | 418 | 486 | 439 | 472 |
| 25 | 726 | 721 | 724 | 451 | 432 | 442 | 417 | 403 | 409 | 525 | 486 | 508 |
| 26 | 739 | 725 | 728 | 455 | 432 | 451 | 428 | 387 | 409 | 588 | 525 | 560 |
| 27 | 743 | 724 | 735 | 449 | 432 | 439 | 428 | 411 | 419 | 596 | 515 | 543 |
| 28 | 759 | 743 | 750 | 440 | 432 | 435 | 422 | 416 | 419 | 584 | 529 | 564 |
| 29 | --- | --- | --- | 451 | 439 | 444 | 418 | 409 | 414 | 582 | 476 | 539 |
| 30 | --- | --- | --- | 456 | 327 | 387 | 421 | 414 | 417 | 533 | 499 | 511 |
| 31 | --- | --- | --- | 376 | 354 | 361 | --- | --- | --- | 593 | 533 | 566 |
| MONTH | --- | --- | --- | 796 | 291 | 610 | 474 | 303 | 410 | 596 | 271 | 440 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 627 | 593 | 615 | 590 | 411 | 491 | 687 | 624 | 648 | --- | --- | --- |
| 2 | 653 | 627 | 640 | 495 | 408 | 448 | 679 | 627 | 658 | --- | --- | --- |
| 3 | 670 | 651 | 662 | 449 | 408 | 429 | 699 | 662 | 684 | 725 | 704 | 716 |
| 4 | 691 | 663 | 679 | 478 | 384 | 423 | 713 | 688 | 698 | 739 | 704 | 720 |
| 5 | 720 | 690 | 707 | 482 | 401 | 441 | 732 | 713 | 726 | --- | --- | --- |
| 6 | 730 | 718 | 725 | 571 | 482 | 516 | 736 | 718 | 729 | 741 | 668 | 723 |
| 7 | 731 | 716 | 721 | 585 | 511 | 552 | 741 | 722 | 735 | --- | --- | --- |
| 8 | 740 | 651 | 714 | 547 | 507 | 523 | 767 | 732 | 753 | --- | --- | --- |
| 9 | 651 | 558 | 597 | 623 | 547 | 594 | 765 | 751 | 757 | 734 | 528 | 608 |
| 10 | 559 | 537 | 550 | 638 | 623 | 628 | 754 | 221 | 611 | 592 | 525 | 564 |
| 11 | 606 | 537 | 578 | 655 | 637 | 644 | 574 | 272 | 434 | 563 | 523 | 541 |
| 12 | 608 | 539 | 561 | 681 | 346 | 497 | 463 | 369 | 414 | 616 | 563 | 597 |
| 13 | 577 | 543 | 565 | 496 | 355 | 421 | 541 | 463 | 510 | 651 | 611 | 627 |
| 14 | 604 | 573 | 588 | 612 | 496 | 569 | 618 | 541 | 590 | 686 | 649 | 659 |
| 15 | 609 | 577 | 587 | 617 | 568 | 598 | 646 | 526 | 617 | --- | --- | --- |
| 16 | 636 | 492 | 581 | --- | --- | --- | 587 | 507 | 551 | --- | --- | --- |
| 17 | 549 | 462 | 515 | --- | --- | --- | 600 | 521 | 555 | 746 | 717 | 733 |
| 18 | 544 | 514 | 525 | --- | --- | --- | 642 | 600 | 622 | 759 | 742 | 752 |
| 19 | 602 | 544 | 573 | 628 | 486 | 575 | 709 | 633 | 666 | 742 | 481 | 672 |
| 20 | 651 | 602 | 624 | 660 | 628 | 648 | 690 | 648 | 660 | 603 | 430 | 509 |
| 21 | 699 | 651 | 680 | 688 | 660 | 679 | 680 | 664 | 673 | 642 | 590 | 622 |
| 22 | 747 | 699 | 722 | 692 | 679 | 685 | 686 | 651 | 670 | 609 | 585 | 594 |
| 23 | 765 | 747 | 760 | 708 | 682 | 692 | 709 | 684 | 694 | 654 | 609 | 630 |
| 24 | --- | --- | --- | 726 | 708 | 719 | 732 | 709 | 723 | 672 | 649 | 660 |
| 25 | --- | --- | --- | 737 | 721 | 728 | 745 | 730 | 738 | 700 | 663 | 674 |
| 26 | --- | --- | --- | 732 | 722 | 728 | 765 | 743 | 755 | 717 | 700 | 711 |
| 27 | --- | --- | --- | 744 | 731 | 739 | 762 | 454 | 695 | 731 | 712 | 722 |
| 28 | 728 | 611 | 666 | 764 | 741 | 754 | 582 | 454 | 542 | 719 | 706 | 714 |
| 29 | 732 | 396 | 509 | 756 | 728 | 742 | 588 | 507 | 536 | --- | --- | --- |
| 30 | 594 | 483 | 543 | 748 | 728 | 738 | 654 | 588 | 624 | --- | --- | --- |
| 31 | --- | --- | --- | 761 | 687 | 745 | 712 | 654 | 686 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 767 | 221 | 644 | --- | --- | --- |

08057448 Trinity River near Wilmer, TX--Continued



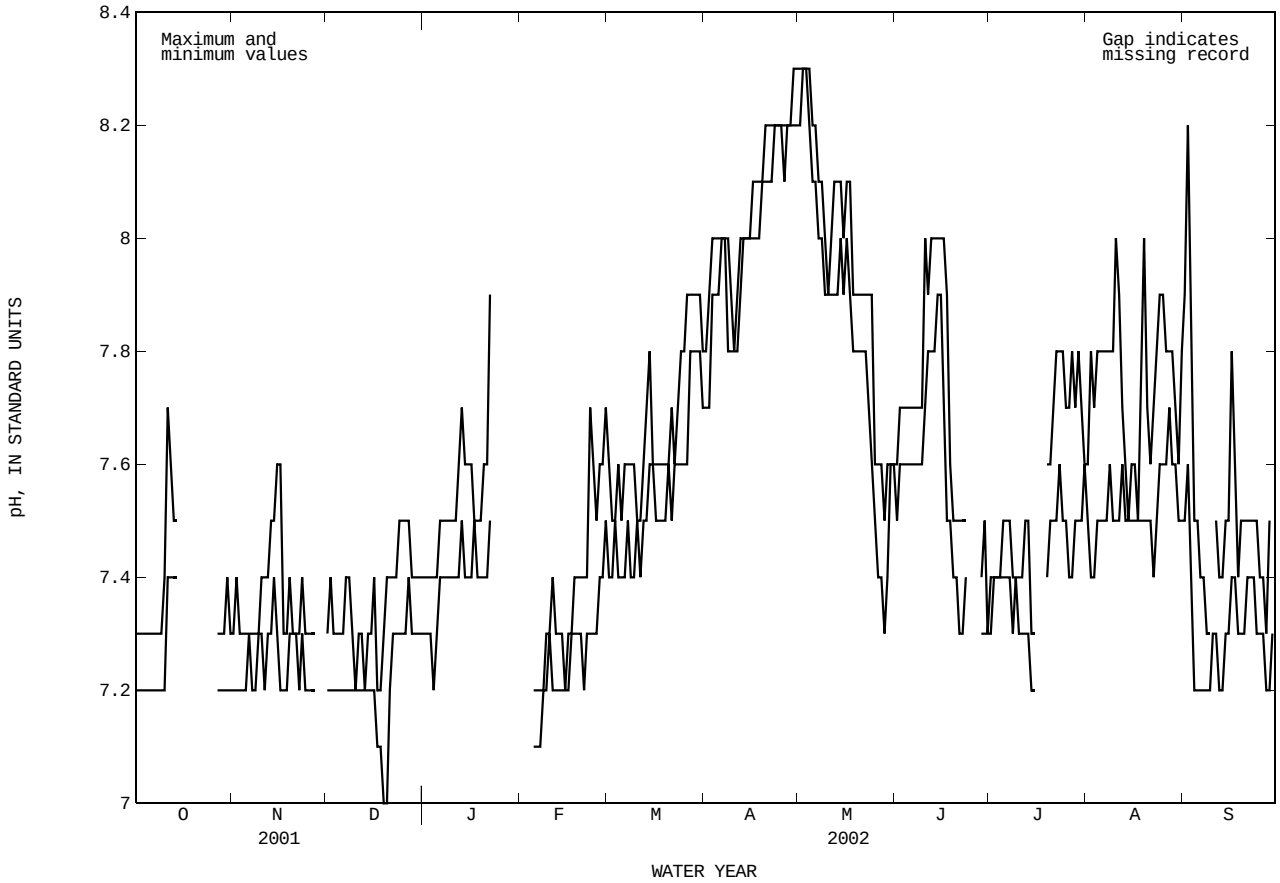

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

08057448 Trinity River near Wilmer, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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



08057448 Trinity River near Wilmer, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

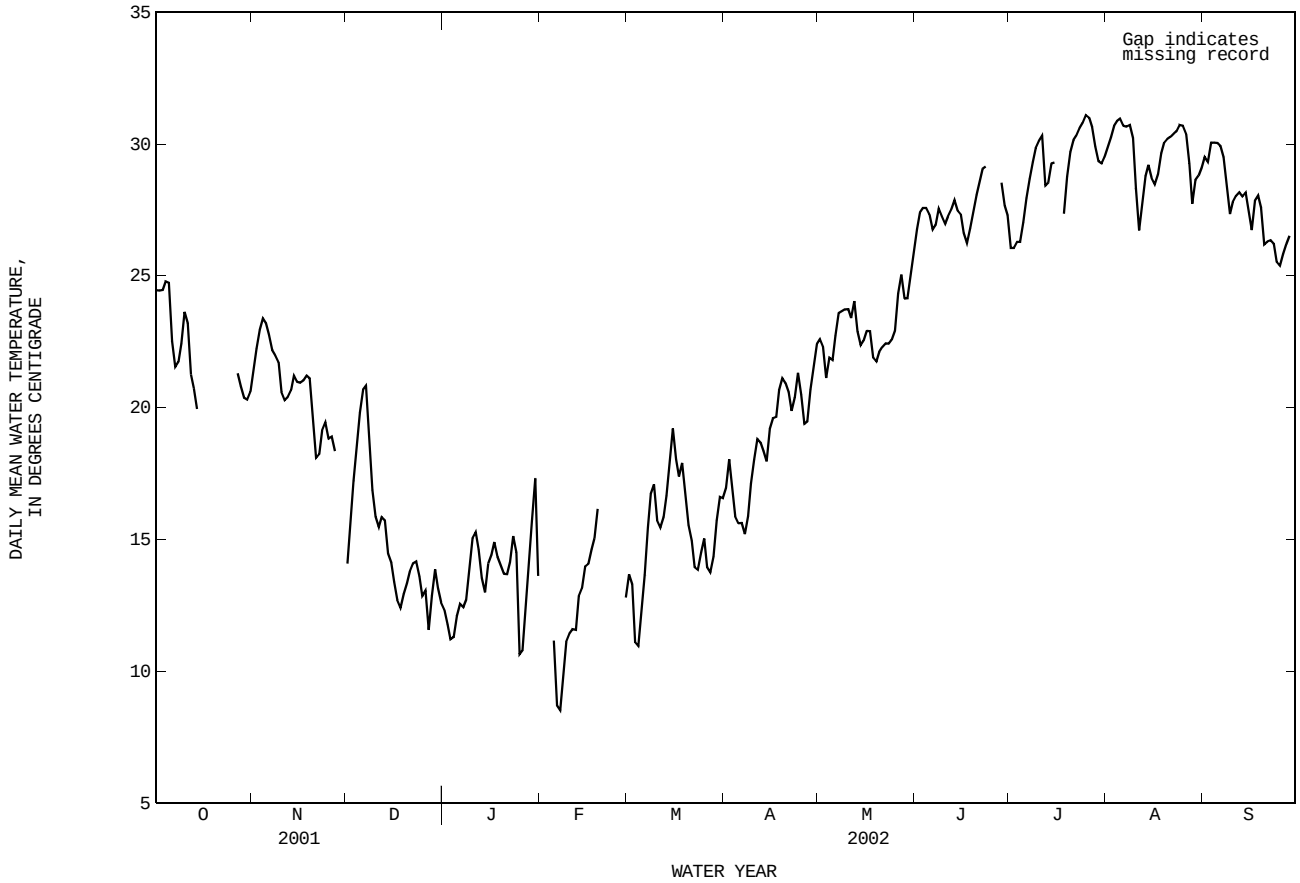
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 25.0 | 23.8 | 24.5 | 21.9 | 20.8 | 21.4 | 14.9 | 13.3 | 14.1 | 12.7 | 12.0 | 12.3 |
| 2 | 25.0 | 23.8 | 24.4 | 22.9 | 21.7 | 22.2 | 16.9 | 14.5 | 15.6 | 12.4 | 11.4 | 11.8 |
| 3 | 25.0 | 23.8 | 24.5 | 23.5 | 22.3 | 23.0 | 18.1 | 16.6 | 17.2 | 11.8 | 10.8 | 11.2 |
| 4 | 25.3 | 24.2 | 24.8 | 23.7 | 23.0 | 23.4 | 19.5 | 18.1 | 18.6 | 12.0 | 10.7 | 11.3 |
| 5 | 25.2 | 23.3 | 24.7 | 23.6 | 22.8 | 23.2 | 20.5 | 19.3 | 19.8 | 12.6 | 11.8 | 12.1 |
| 6 | 23.4 | 22.0 | 22.5 | 23.2 | 22.3 | 22.8 | 21.1 | 20.4 | 20.7 | 12.9 | 12.1 | 12.6 |
| 7 | 22.1 | 21.0 | 21.6 | 22.6 | 21.7 | 22.2 | 21.0 | 20.2 | 20.8 | 12.9 | 11.8 | 12.4 |
| 8 | 22.3 | 21.2 | 21.7 | 22.4 | 21.4 | 22.0 | 20.2 | 17.9 | 19.0 | 13.4 | 12.1 | 12.7 |
| 9 | 23.2 | 21.9 | 22.4 | 22.2 | 21.3 | 21.7 | 17.9 | 16.3 | 16.9 | 14.7 | 13.0 | 13.8 |
| 10 | 24.4 | 23.1 | 23.6 | 21.3 | 20.3 | 20.6 | 16.3 | 15.4 | 15.9 | 15.7 | 14.5 | 15.0 |
| 11 | 24.5 | 21.4 | 23.2 | 20.5 | 20.0 | 20.3 | 15.9 | 15.1 | 15.5 | 15.7 | 14.8 | 15.3 |
| 12 | 21.8 | 21.0 | 21.3 | 20.6 | 20.2 | 20.4 | 16.1 | 15.6 | 15.8 | 15.3 | 14.2 | 14.6 |
| 13 | 21.4 | 20.1 | 20.7 | 21.0 | 20.3 | 20.7 | 15.9 | 15.1 | 15.7 | 14.7 | 12.1 | 13.5 |
| 14 | 20.2 | 19.7 | 20.0 | 21.4 | 21.0 | 21.2 | 15.1 | 14.1 | 14.5 | 14.2 | 12.2 | 13.0 |
| 15 | --- | --- | --- | 21.2 | 20.7 | 21.0 | 14.4 | 13.9 | 14.1 | 14.5 | 13.5 | 14.1 |
| 16 | --- | --- | --- | 21.2 | 20.8 | 20.9 | 14.5 | 12.9 | 13.4 | 15.1 | 13.9 | 14.4 |
| 17 | --- | --- | --- | 21.6 | 20.6 | 21.0 | 12.9 | 12.6 | 12.7 | 15.1 | 14.7 | 14.9 |
| 18 | --- | --- | --- | 21.7 | 20.6 | 21.2 | 12.7 | 12.2 | 12.4 | 14.9 | 14.1 | 14.3 |
| 19 | --- | --- | --- | 21.6 | 20.4 | 21.1 | 13.2 | 12.7 | 12.9 | 14.3 | 13.7 | 14.0 |
| 20 | --- | --- | --- | 20.4 | 18.8 | 19.5 | 13.7 | 13.1 | 13.3 | 14.1 | 13.3 | 13.7 |
| 21 | --- | --- | --- | 18.8 | 17.5 | 18.1 | 14.1 | 13.4 | 13.8 | 14.4 | 13.1 | 13.7 |
| 22 | --- | --- | --- | 18.8 | 17.6 | 18.2 | 15.0 | 13.5 | 14.1 | 14.7 | 13.8 | 14.1 |
| 23 | --- | --- | --- | 19.9 | 18.6 | 19.1 | 14.7 | 13.6 | 14.2 | 15.7 | 14.5 | 15.1 |
| 24 | --- | --- | --- | 19.9 | 19.0 | 19.4 | 14.6 | 12.7 | 13.6 | 15.7 | 11.4 | 14.5 |
| 25 | --- | --- | --- | 19.4 | 18.3 | 18.8 | 13.3 | 12.4 | 12.9 | 11.4 | 10.3 | 10.6 |
| 26 | --- | --- | --- | 19.4 | 18.4 | 18.9 | 13.6 | 11.5 | 13.1 | 11.1 | 10.4 | 10.8 |
| 27 | 21.8 | 20.8 | 21.3 | 19.4 | 17.2 | 18.4 | 12.0 | 11.3 | 11.6 | 12.8 | 10.9 | 12.1 |
| 28 | 21.2 | 20.3 | 20.8 | --- | --- | --- | 14.2 | 11.9 | 12.9 | 14.7 | 12.8 | 13.7 |
| 29 | 20.8 | 20.0 | 20.4 | --- | --- | --- | 14.2 | 13.5 | 13.9 | 16.6 | 14.7 | 15.8 |
| 30 | 20.8 | 19.6 | 20.3 | --- | --- | --- | 13.9 | 12.8 | 13.2 | 17.8 | 16.6 | 17.3 |
| 31 | 21.1 | 20.0 | 20.6 | --- | --- | --- | 13.0 | 12.2 | 12.6 | 17.4 | 10.4 | 13.6 |
| MONTH | --- | --- | --- | --- | --- | --- | 21.1 | 11.3 | 15.0 | 17.8 | 10.3 | 13.5 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 14.2 | 13.1 | 13.7 | 18.0 | 16.4 | 17.0 | 23.0 | 22.2 | 22.6 |
| 2 | --- | --- | --- | 14.0 | 12.1 | 13.3 | 18.2 | 17.9 | 18.0 | 22.8 | 21.8 | 22.3 |
| 3 | --- | --- | --- | 12.1 | 10.4 | 11.1 | 18.1 | 16.0 | 16.8 | 21.8 | 20.7 | 21.1 |
| 4 | --- | --- | --- | 11.8 | 10.0 | 11.0 | 16.2 | 15.6 | 15.9 | 22.5 | 21.3 | 21.9 |
| 5 | 11.9 | 9.4 | 11.2 | 13.3 | 11.6 | 12.4 | 15.8 | 15.5 | 15.6 | 22.5 | 21.0 | 21.8 |
| 6 | 9.4 | 8.4 | 8.7 | 14.8 | 12.6 | 13.7 | 15.8 | 15.4 | 15.6 | 23.4 | 22.1 | 22.7 |
| 7 | 9.3 | 8.1 | 8.5 | 16.3 | 14.7 | 15.5 | 15.4 | 15.1 | 15.2 | 24.0 | 23.4 | 23.6 |
| 8 | 10.5 | 9.3 | 9.8 | 17.4 | 16.2 | 16.7 | 16.9 | 15.1 | 15.9 | 24.0 | 23.5 | 23.7 |
| 9 | 11.6 | 10.5 | 11.1 | 17.4 | 16.7 | 17.1 | 17.8 | 16.6 | 17.1 | 24.0 | 23.6 | 23.7 |
| 10 | 11.6 | 11.3 | 11.4 | 16.7 | 15.0 | 15.7 | 18.9 | 17.5 | 18.0 | 24.0 | 23.2 | 23.7 |
| 11 | 12.5 | 11.1 | 11.6 | 15.7 | 15.2 | 15.5 | 19.2 | 18.5 | 18.8 | 24.2 | 22.6 | 23.4 |
| 12 | 12.2 | 11.1 | 11.6 | 16.5 | 15.2 | 15.8 | 19.1 | 18.3 | 18.7 | 24.4 | 23.7 | 24.0 |
| 13 | 13.3 | 12.1 | 12.9 | 17.6 | 15.7 | 16.7 | 18.8 | 18.0 | 18.4 | 23.7 | 22.4 | 22.9 |
| 14 | 13.8 | 12.7 | 13.2 | 19.0 | 17.0 | 18.0 | 18.5 | 17.7 | 18.0 | 22.6 | 22.2 | 22.4 |
| 15 | 14.4 | 13.6 | 14.0 | 19.6 | 18.9 | 19.2 | 19.7 | 18.5 | 19.2 | 22.8 | 22.3 | 22.5 |
| 16 | 14.5 | 13.6 | 14.1 | 18.9 | 17.5 | 18.0 | 19.7 | 19.5 | 19.6 | 23.1 | 22.7 | 22.9 |
| 17 | 15.2 | 14.0 | 14.6 | 17.8 | 17.0 | 17.4 | 20.4 | 18.9 | 19.6 | 23.1 | 22.4 | 22.9 |
| 18 | 15.5 | 14.6 | 15.0 | 18.3 | 17.7 | 17.9 | 21.3 | 20.3 | 20.7 | 22.4 | 21.7 | 21.9 |
| 19 | 17.0 | 15.2 | 16.2 | 18.2 | 15.7 | 16.7 | 21.3 | 21.0 | 21.1 | 22.1 | 21.4 | 21.7 |
| 20 | --- | --- | --- | 15.9 | 15.2 | 15.5 | 21.0 | 20.7 | 20.9 | 22.5 | 21.7 | 22.1 |
| 21 | --- | --- | --- | 15.5 | 14.4 | 15.0 | 21.0 | 20.2 | 20.6 | 22.7 | 21.9 | 22.3 |
| 22 | --- | --- | --- | 14.7 | 13.5 | 14.0 | 20.2 | 19.5 | 19.9 | 22.7 | 22.1 | 22.4 |
| 23 | --- | --- | --- | 14.6 | 13.3 | 13.9 | 20.9 | 19.9 | 20.4 | 22.7 | 22.1 | 22.4 |
| 24 | --- | --- | --- | 15.1 | 14.2 | 14.5 | 21.8 | 20.7 | 21.3 | 22.8 | 22.4 | 22.6 |
| 25 | --- | --- | --- | 15.3 | 14.5 | 15.0 | 21.6 | 19.9 | 20.5 | 23.7 | 22.4 | 22.9 |
| 26 | --- | --- | --- | 14.5 | 13.7 | 14.0 | 19.9 | 19.1 | 19.4 | 25.6 | 23.4 | 24.3 |
| 27 | --- | --- | --- | 14.0 | 13.4 | 13.8 | 20.0 | 19.1 | 19.5 | 25.4 | 24.6 | 25.1 |
| 28 | 13.4 | 12.1 | 12.8 | 15.1 | 14.0 | 14.4 | 21.5 | 20.0 | 20.7 | 24.6 | 23.8 | 24.1 |
| 29 | --- | --- | --- | 16.4 | 15.1 | 15.7 | 22.1 | 21.1 | 21.6 | 25.0 | 23.5 | 24.2 |
| 30 | --- | --- | --- | 17.0 | 16.3 | 16.6 | 22.8 | 22.0 | 22.4 | 25.6 | 24.6 | 25.1 |
| 31 | --- | --- | --- | 17.0 | 16.3 | 16.6 | --- | --- | --- | 26.7 | 25.3 | 25.9 |
| MONTH | --- | --- | --- | 19.6 | 10.0 | 15.3 | 22.8 | 15.1 | 18.9 | 26.7 | 20.7 | 23.1 |

08057448 Trinity River near Wilmer, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 27.7 | 26.0 | 26.8 | 27.0 | 25.3 | 26.1 | 30.5 | 29.1 | 29.9 | 30.3 | 28.7 | 29.5 |
| 2 | 27.9 | 26.6 | 27.4 | 26.2 | 26.0 | 26.1 | 31.0 | 29.5 | 30.2 | 30.4 | 28.4 | 29.3 |
| 3 | 28.0 | 27.0 | 27.6 | 26.6 | 26.0 | 26.3 | 31.6 | 29.8 | 30.7 | 30.7 | 29.2 | 30.1 |
| 4 | 28.0 | 27.0 | 27.6 | 26.4 | 26.1 | 26.3 | 31.7 | 30.0 | 30.9 | 30.7 | 29.3 | 30.1 |
| 5 | 27.9 | 26.9 | 27.3 | 27.7 | 26.3 | 27.0 | 31.7 | 30.1 | 31.0 | 30.7 | 29.3 | 30.0 |
| 6 | 27.1 | 26.3 | 26.8 | 28.9 | 27.1 | 28.0 | 31.3 | 29.9 | 30.7 | 30.4 | 29.3 | 29.9 |
| 7 | 27.8 | 26.1 | 26.9 | 29.4 | 28.0 | 28.7 | 31.5 | 29.7 | 30.7 | 30.0 | 29.1 | 29.5 |
| 8 | 28.0 | 27.2 | 27.6 | 29.9 | 28.8 | 29.3 | 31.4 | 30.1 | 30.7 | 29.2 | 28.0 | 28.5 |
| 9 | 27.8 | 26.9 | 27.3 | 30.5 | 29.2 | 29.9 | 30.9 | 29.5 | 30.2 | 28.0 | 26.4 | 27.4 |
| 10 | 27.5 | 26.5 | 27.0 | 30.7 | 29.5 | 30.1 | 30.4 | 24.3 | 28.3 | 28.4 | 27.4 | 27.8 |
| 11 | 27.8 | 26.9 | 27.3 | 31.0 | 29.6 | 30.3 | 27.8 | 24.8 | 26.7 | 28.6 | 27.6 | 28.0 |
| 12 | 28.0 | 27.1 | 27.5 | 30.5 | 27.1 | 28.4 | 28.6 | 27.1 | 27.8 | 28.6 | 27.8 | 28.2 |
| 13 | 28.5 | 27.4 | 27.9 | 29.1 | 27.5 | 28.5 | 29.5 | 28.2 | 28.8 | 28.4 | 27.5 | 28.0 |
| 14 | 28.0 | 27.1 | 27.5 | 30.0 | 28.7 | 29.3 | 29.5 | 28.9 | 29.2 | 28.7 | 27.6 | 28.2 |
| 15 | 27.9 | 26.7 | 27.3 | 29.8 | 28.8 | 29.3 | 29.1 | 28.4 | 28.7 | 28.6 | 26.0 | 27.5 |
| 16 | 27.5 | 26.1 | 26.6 | --- | --- | --- | 29.1 | 28.0 | 28.5 | 28.0 | 24.5 | 26.7 |
| 17 | 26.8 | 25.7 | 26.2 | --- | --- | --- | 29.5 | 28.3 | 28.9 | 28.4 | 27.4 | 27.9 |
| 18 | 27.7 | 26.1 | 26.8 | 28.3 | 26.1 | 27.4 | 30.5 | 29.0 | 29.6 | 28.6 | 27.6 | 28.0 |
| 19 | 28.1 | 26.7 | 27.4 | 29.6 | 27.9 | 28.8 | 30.7 | 29.4 | 30.0 | 28.2 | 26.5 | 27.6 |
| 20 | 28.8 | 27.5 | 28.1 | 30.4 | 29.1 | 29.7 | 30.8 | 29.6 | 30.2 | 26.9 | 25.3 | 26.2 |
| 21 | 29.4 | 27.7 | 28.6 | 30.9 | 29.4 | 30.1 | 30.8 | 29.7 | 30.3 | 26.7 | 25.9 | 26.3 |
| 22 | 29.8 | 28.4 | 29.1 | 31.1 | 29.5 | 30.3 | 31.1 | 29.7 | 30.4 | 26.9 | 25.9 | 26.4 |
| 23 | 29.9 | 28.4 | 29.1 | 31.6 | 29.7 | 30.6 | 31.2 | 29.7 | 30.5 | 26.7 | 25.8 | 26.2 |
| 24 | --- | --- | --- | 31.7 | 29.9 | 30.8 | 31.5 | 29.9 | 30.7 | 26.1 | 25.0 | 25.5 |
| 25 | --- | --- | --- | 32.0 | 30.3 | 31.1 | 31.3 | 30.0 | 30.7 | 26.1 | 24.6 | 25.4 |
| 26 | --- | --- | --- | 31.7 | 30.2 | 31.0 | 31.1 | 29.6 | 30.4 | 26.5 | 25.1 | 25.8 |
| 27 | --- | --- | --- | 31.4 | 29.8 | 30.6 | 30.7 | 26.3 | 29.3 | 26.9 | 25.4 | 26.2 |
| 28 | 29.2 | 27.8 | 28.5 | 30.6 | 29.0 | 29.9 | 29.0 | 26.3 | 27.7 | 27.2 | 25.7 | 26.5 |
| 29 | 29.0 | 27.0 | 27.7 | 29.8 | 28.8 | 29.4 | 29.1 | 28.2 | 28.6 | --- | --- | --- |
| 30 | 27.4 | 27.0 | 27.3 | 29.9 | 28.6 | 29.3 | 29.3 | 28.2 | 28.8 | --- | --- | --- |
| 31 | --- | --- | --- | 30.0 | 28.9 | 29.5 | 29.9 | 28.4 | 29.1 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 31.7 | 24.3 | 29.6 | --- | --- | --- |



08057448 Trinity River near Wilmer, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 6.5 | 6.2 | 6.4 | 7.4 | 6.8 | 7.1 | 8.7 | 8.1 | 8.4 | 9.6 | 9.3 | 9.4 |
| 2 | 6.5 | 6.1 | 6.4 | 7.2 | 6.8 | 7.0 | 8.3 | 7.7 | 8.1 | 9.8 | 9.4 | 9.6 |
| 3 | 6.3 | 5.5 | 6.0 | 7.3 | 6.8 | 7.0 | 7.9 | 7.4 | 7.6 | 10.2 | 9.5 | 9.9 |
| 4 | 6.0 | 5.0 | 5.5 | 7.4 | 6.7 | 7.0 | 7.5 | 7.1 | 7.3 | 10.2 | 9.7 | 10.0 |
| 5 | 6.4 | 5.4 | 6.0 | 7.3 | 6.6 | 6.9 | 7.2 | 6.8 | 7.0 | 9.8 | 9.3 | 9.6 |
| 6 | 5.9 | 3.4 | 5.2 | 7.5 | 7.0 | 7.2 | 6.9 | 6.7 | 6.8 | 9.6 | 9.2 | 9.4 |
| 7 | 6.7 | 5.9 | 6.4 | 7.4 | 7.1 | 7.2 | 6.7 | 6.0 | 6.5 | 9.6 | 9.2 | 9.4 |
| 8 | 6.8 | 6.6 | 6.7 | 7.4 | 7.1 | 7.2 | 7.2 | 5.8 | 6.6 | 9.5 | 8.8 | 9.2 |
| 9 | 7.2 | 6.4 | 6.8 | 7.4 | 7.1 | 7.2 | 7.7 | 7.1 | 7.5 | 9.4 | 8.8 | 9.0 |
| 10 | 7.1 | 6.2 | 6.7 | 7.6 | 7.3 | 7.4 | 7.9 | 7.6 | 7.7 | 9.2 | 8.7 | 9.0 |
| 11 | 6.8 | 5.3 | 6.2 | 7.5 | 7.2 | 7.4 | 8.0 | 7.6 | 7.8 | 9.1 | 8.4 | 8.8 |
| 12 | 6.1 | 5.4 | 5.9 | 7.4 | 6.8 | 7.2 | 7.8 | 7.0 | 7.5 | 9.4 | 8.7 | 9.1 |
| 13 | 6.5 | 5.4 | 6.0 | 7.5 | 7.2 | 7.4 | 7.6 | 7.0 | 7.3 | 10.0 | 8.7 | 9.4 |
| 14 | 6.4 | 5.8 | 6.1 | 7.6 | 7.3 | 7.5 | 7.9 | 7.1 | 7.6 | 9.8 | 8.8 | 9.4 |
| 15 | --- | --- | --- | --- | --- | --- | 8.2 | 7.8 | 8.0 | 9.6 | 8.7 | 9.1 |
| 16 | --- | --- | --- | --- | --- | --- | 9.4 | 8.0 | 8.8 | 9.2 | 8.8 | 8.9 |
| 17 | --- | --- | --- | --- | --- | --- | 8.7 | 8.3 | 8.5 | 9.0 | 8.7 | 8.9 |
| 18 | --- | --- | --- | --- | --- | --- | 8.3 | 8.0 | 8.2 | 9.0 | 8.6 | 8.8 |
| 19 | --- | --- | --- | --- | --- | --- | 8.6 | 8.1 | 8.3 | 9.3 | 8.9 | 9.1 |
| 20 | --- | --- | --- | --- | --- | --- | 8.8 | 8.6 | 8.8 | 9.8 | 8.9 | 9.4 |
| 21 | --- | --- | --- | --- | --- | --- | 8.9 | 8.6 | 8.8 | 9.7 | 9.1 | 9.5 |
| 22 | --- | --- | --- | --- | --- | --- | 9.2 | 8.3 | 8.8 | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | 9.1 | 8.5 | 8.8 | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | 9.6 | 8.4 | 9.0 | 11.2 | 9.2 | 10.2 |
| 25 | --- | --- | --- | --- | --- | --- | 9.5 | 9.2 | 9.4 | 11.7 | 11.1 | 11.4 |
| 26 | --- | --- | --- | --- | --- | --- | 9.9 | 8.9 | 9.1 | 11.6 | 11.1 | 11.3 |
| 27 | 7.3 | 7.0 | 7.2 | --- | --- | --- | 10.2 | 9.9 | 10.0 | 11.5 | 11.1 | 11.2 |
| 28 | 7.4 | 7.0 | 7.2 | --- | --- | --- | 9.9 | 8.8 | 9.3 | 11.1 | 9.8 | 10.9 |
| 29 | 7.3 | 7.1 | 7.2 | --- | --- | --- | 8.9 | 8.7 | 8.8 | 10.7 | 9.8 | 10.5 |
| 30 | 7.4 | 7.1 | 7.2 | --- | --- | --- | 9.2 | 8.9 | 9.1 | 10.3 | 9.7 | 9.9 |
| 31 | 7.5 | 7.0 | 7.2 | --- | --- | --- | 9.4 | 9.1 | 9.2 | 11.3 | 9.0 | 10.4 |
| MONTH | --- | --- | --- | --- | --- | --- | 10.2 | 5.8 | 8.2 | --- | --- | --- |

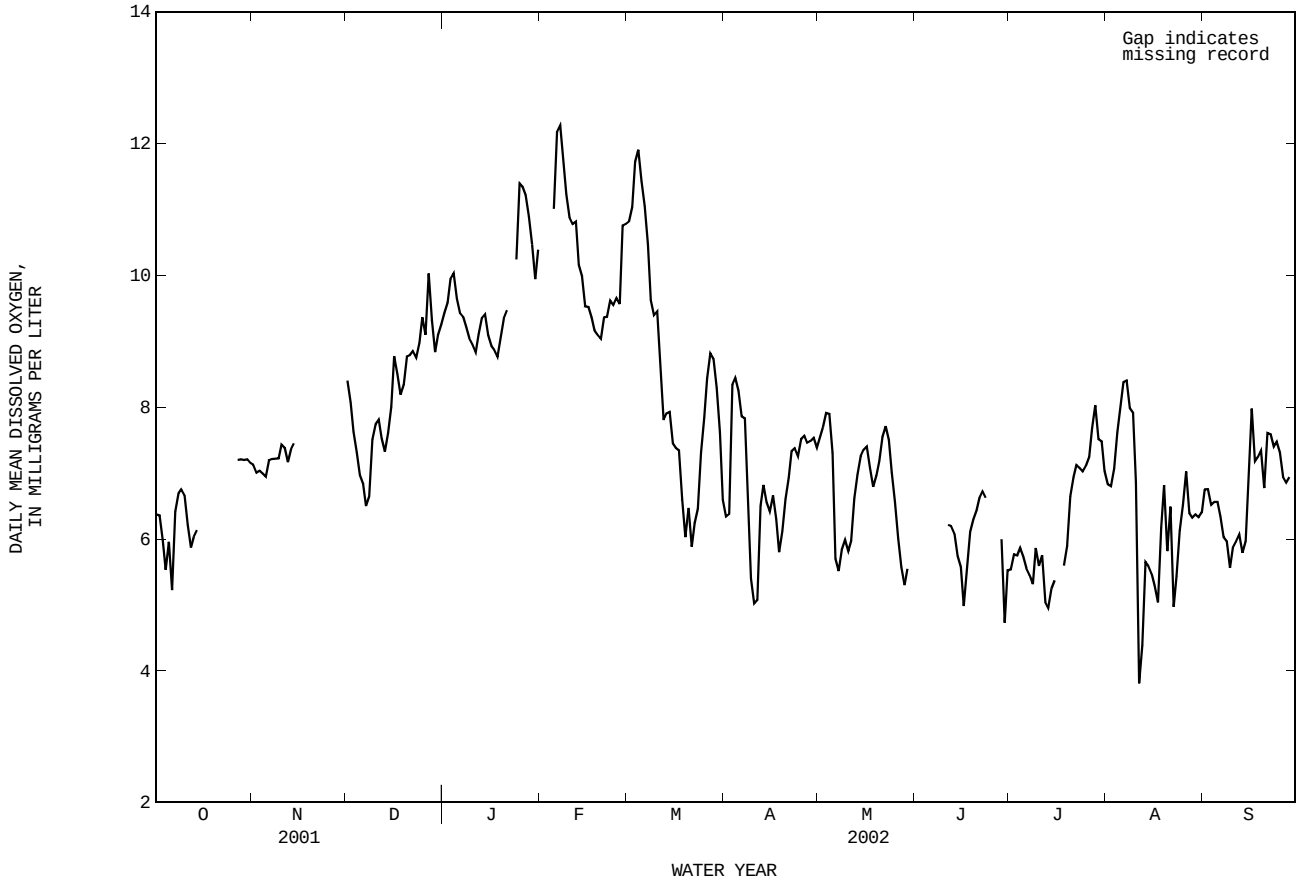
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 11.2 | 10.5 | 10.8 | 6.7 | 6.0 | 6.3 | 7.8 | 7.3 | 7.5 |
| 2 | --- | --- | --- | 11.5 | 10.5 | 11.0 | 7.7 | 5.9 | 6.4 | 7.9 | 7.5 | 7.7 |
| 3 | --- | --- | --- | 12.1 | 11.2 | 11.7 | 9.9 | 7.7 | 8.3 | 8.2 | 7.7 | 7.9 |
| 4 | --- | --- | --- | 12.1 | 11.7 | 11.9 | 8.8 | 8.0 | 8.4 | 8.1 | 7.8 | 7.9 |
| 5 | 11.8 | 10.6 | 11.0 | 11.8 | 11.1 | 11.4 | 8.5 | 8.1 | 8.2 | 8.0 | 6.3 | 7.3 |
| 6 | 12.6 | 11.8 | 12.2 | 11.6 | 10.6 | 11.1 | 8.2 | 7.7 | 7.9 | 6.3 | 5.4 | 5.7 |
| 7 | 12.5 | 12.0 | 12.3 | 11.4 | 10.1 | 10.5 | 8.0 | 7.5 | 7.8 | 5.8 | 5.4 | 5.5 |
| 8 | 12.0 | 11.5 | 11.8 | 10.1 | 9.0 | 9.6 | 7.6 | 5.7 | 6.5 | 6.1 | 5.6 | 5.8 |
| 9 | 11.6 | 11.0 | 11.2 | 9.7 | 9.0 | 9.4 | 5.7 | 5.1 | 5.4 | 6.2 | 5.8 | 6.0 |
| 10 | 11.0 | 10.7 | 10.9 | 9.6 | 9.3 | 9.5 | 5.2 | 4.7 | 5.0 | 5.9 | 5.5 | 5.8 |
| 11 | 11.2 | 10.4 | 10.8 | 9.4 | e7.5 | 8.5 | 5.9 | 4.7 | 5.1 | 6.4 | 5.6 | 6.0 |
| 12 | 11.2 | 10.3 | 10.8 | 8.2 | 7.5 | 7.8 | 6.9 | 5.9 | 6.5 | 6.9 | 6.3 | 6.6 |
| 13 | 10.4 | 10.0 | 10.2 | 8.3 | 7.5 | 7.9 | 7.0 | 6.6 | 6.8 | 7.3 | 6.6 | 7.0 |
| 14 | 10.2 | 9.6 | 10 | 8.4 | 7.6 | 7.9 | 6.8 | 6.2 | 6.6 | 7.4 | 7.1 | 7.3 |
| 15 | 9.8 | 9.4 | 9.5 | 7.9 | 7.2 | 7.5 | 6.6 | 6.3 | 6.4 | 7.6 | 7.2 | 7.4 |
| 16 | 9.6 | 9.3 | 9.5 | 7.8 | 7.0 | 7.4 | 6.9 | 6.4 | 6.7 | 7.6 | 7.3 | 7.4 |
| 17 | 9.5 | 9.2 | 9.4 | 7.6 | 7.0 | 7.3 | 7.1 | 5.7 | 6.3 | 7.4 | 6.8 | 7.1 |
| 18 | 9.4 | 8.9 | 9.2 | 7.0 | 6.2 | 6.6 | 6.0 | 5.5 | 5.8 | 7.0 | 6.6 | 6.8 |
| 19 | 9.5 | 8.6 | 9.1 | 7.0 | 5.2 | 6.0 | 6.4 | 5.9 | 6.1 | 7.2 | 6.6 | 7.0 |
| 20 | 9.7 | 8.3 | 9.0 | 7.0 | 6.0 | 6.5 | 6.9 | 6.1 | 6.6 | 7.4 | 7.0 | 7.2 |
| 21 | 9.9 | 9.2 | 9.4 | 6.3 | 5.7 | 5.9 | 7.2 | 6.6 | 6.9 | 7.8 | 7.3 | 7.5 |
| 22 | 9.8 | 9.1 | 9.4 | 6.4 | 6.0 | 6.2 | 7.5 | 6.9 | 7.3 | 7.9 | 7.6 | 7.7 |
| 23 | 9.8 | 9.4 | 9.6 | 6.7 | 6.3 | 6.5 | 7.6 | 7.2 | 7.4 | 7.6 | 7.3 | 7.5 |
| 24 | 9.8 | 9.4 | 9.5 | 7.6 | 6.6 | 7.3 | 7.4 | 7.0 | 7.3 | 7.3 | 6.8 | 7.0 |
| 25 | 9.8 | 9.5 | 9.7 | 8.3 | 7.5 | 7.8 | 7.8 | 7.2 | 7.5 | 6.8 | 6.3 | 6.6 |
| 26 | 9.7 | 9.4 | 9.6 | 8.8 | 8.1 | 8.4 | 7.8 | 7.1 | 7.6 | 6.3 | 5.9 | 6.0 |
| 27 | 11.1 | 9.4 | 10.8 | 9.0 | 8.7 | 8.8 | 7.6 | 7.3 | 7.5 | 5.9 | 5.2 | 5.6 |
| 28 | 11.2 | 10.4 | 10.8 | 8.9 | 8.5 | 8.7 | 7.7 | 7.3 | 7.5 | 5.6 | 4.7 | 5.3 |
| 29 | --- | --- | --- | 8.6 | 8.1 | 8.3 | 7.7 | 7.4 | 7.5 | 6.3 | 4.8 | 5.5 |
| 30 | --- | --- | --- | 8.3 | 7.0 | 7.6 | 7.5 | 7.3 | 7.4 | --- | --- | --- |
| 31 | --- | --- | --- | 7.1 | 6.4 | 6.6 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | 12.1 | 5.2 | 8.5 | 9.9 | 4.7 | 6.9 | --- | --- | --- |

08057448 Trinity River near Wilmer, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 6.0 | 4.8 | 5.5 | 7.1 | 6.5 | 6.8 | 7.2 | 6.2 | 6.8 |
| 2 | --- | --- | --- | 6.0 | 5.6 | 5.8 | 7.1 | 6.6 | 6.8 | 8.0 | 6.1 | 6.8 |
| 3 | --- | --- | --- | 6.2 | 5.4 | 5.8 | 7.9 | 6.5 | 7.1 | 7.2 | 5.7 | 6.5 |
| 4 | --- | --- | --- | 6.2 | 5.5 | 5.9 | 8.3 | 6.8 | 7.6 | 7.0 | 6.1 | 6.6 |
| 5 | --- | --- | --- | 6.0 | 5.5 | 5.7 | 9.2 | 6.7 | 8.0 | 7.0 | 6.0 | 6.6 |
| 6 | --- | --- | --- | 5.8 | 5.4 | 5.6 | 8.8 | 7.9 | 8.4 | 7.0 | 6.1 | 6.3 |
| 7 | --- | --- | --- | 5.8 | 5.1 | 5.4 | 8.9 | 7.9 | 8.4 | 6.4 | 5.7 | 6.0 |
| 8 | --- | --- | --- | 5.5 | 5.0 | 5.3 | 8.6 | 7.1 | 8.0 | 6.2 | 5.8 | 6.0 |
| 9 | --- | --- | --- | 6.2 | 5.5 | 5.9 | 8.3 | 7.4 | 7.9 | 6.2 | 4.9 | 5.6 |
| 10 | --- | --- | --- | 5.8 | 5.3 | 5.6 | 8.2 | 4.2 | 6.9 | 6.1 | 5.5 | 5.9 |
| 11 | 6.4 | 6.0 | 6.2 | 6.3 | 5.3 | 5.8 | 5.2 | 2.5 | 3.8 | 6.2 | 5.7 | 6.0 |
| 12 | 6.5 | 5.8 | 6.2 | 6.3 | 3.5 | 5.0 | 5.5 | 3.6 | 4.4 | 6.4 | 5.8 | 6.1 |
| 13 | 6.3 | 5.9 | 6.1 | 5.3 | 4.7 | 5.0 | 5.9 | 5.1 | 5.6 | 6.0 | 5.2 | 5.8 |
| 14 | 6.1 | 5.2 | 5.7 | 5.5 | 4.9 | 5.2 | 5.9 | 5.3 | 5.6 | 6.3 | 5.7 | 6.0 |
| 15 | 5.8 | 5.4 | 5.6 | 5.9 | 4.9 | 5.4 | 6.0 | 4.9 | 5.5 | 9.1 | 5.9 | 7.0 |
| 16 | 6.1 | 3.3 | 5.0 | --- | --- | --- | 6.4 | 4.6 | 5.3 | 9.4 | 6.3 | 8.0 |
| 17 | 6.1 | 4.6 | 5.5 | --- | --- | --- | 6.1 | 3.7 | 5.0 | 7.4 | 6.9 | 7.2 |
| 18 | 6.4 | 5.8 | 6.1 | 6.4 | 4.8 | 5.6 | 7.0 | 5.7 | 6.2 | 7.6 | 7.0 | 7.2 |
| 19 | 6.5 | 6.1 | 6.3 | 6.2 | 5.6 | 5.9 | 8.2 | 5.9 | 6.8 | 7.7 | 6.4 | 7.3 |
| 20 | 6.8 | 6.1 | 6.4 | 8.0 | 6.0 | 6.7 | 6.8 | 5.0 | 5.8 | 7.8 | 5.3 | 6.8 |
| 21 | 6.9 | 6.4 | 6.6 | 7.4 | 6.5 | 6.9 | 7.8 | 5.1 | 6.5 | 7.9 | 7.3 | 7.6 |
| 22 | 7.1 | 6.4 | 6.7 | 7.7 | 6.7 | 7.1 | 7.1 | 3.0 | 5.0 | 7.9 | 7.3 | 7.6 |
| 23 | 7.1 | 6.3 | 6.6 | 7.5 | 6.7 | 7.1 | 7.3 | 4.0 | 5.4 | 7.6 | 7.2 | 7.4 |
| 24 | --- | --- | --- | 7.4 | 6.6 | 7.0 | 8.3 | 4.7 | 6.1 | 7.7 | 7.3 | 7.5 |
| 25 | --- | --- | --- | 7.5 | 6.7 | 7.1 | 7.8 | 5.4 | 6.5 | 7.5 | 6.9 | 7.3 |
| 26 | --- | --- | --- | 7.7 | 6.9 | 7.2 | 7.5 | 6.6 | 7.0 | 7.3 | 6.8 | 6.9 |
| 27 | --- | --- | --- | 8.4 | 7.0 | 7.7 | 8.0 | 4.2 | 6.4 | 7.1 | 6.6 | 6.9 |
| 28 | 6.4 | 5.2 | 6.0 | 8.7 | 7.4 | 8.0 | 7.0 | 4.7 | 6.3 | 7.2 | 6.7 | 6.9 |
| 29 | 5.8 | 3.2 | 4.7 | 8.0 | 7.3 | 7.5 | 6.8 | 6.1 | 6.4 | --- | --- | --- |
| 30 | 6.2 | 4.7 | 5.5 | 7.9 | 7.1 | 7.5 | 6.6 | 5.9 | 6.3 | --- | --- | --- |
| 31 | --- | --- | --- | 7.3 | 6.7 | 7.0 | 7.3 | 5.4 | 6.4 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 9.2 | 2.5 | 6.4 | --- | --- | --- |

e Estimated



## 08058900 East Fork Trinity River at McKinney, TX

LOCATION.--Lat 33°14′40", long 96°36′30", Collin County, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State Highways 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 $mi^2$.

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 fair except those for estimated daily discharges, which are 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.10 | 5.8 | 6.5 | e51 | 1860 | 64 | 939 | 63 | 32 | 6.2 | 0.0 | 0.02 |
| 2 | 0.12 | 4.8 | 4.9 | e48 | 727 | 66 | 653 | 46 | 29 | 12 | 0.0 | 0.0 |
| 3 | 0.10 | 3.2 | 4.5 | 45 | 600 | 67 | 515 | 81 | 27 | 18 | 0.0 | 0.0 |
| 4 | 0.10 | 1.8 | 3.5 | 46 | 495 | 63 | 402 | 62 | 25 | 15 | 0.0 | 0.0 |
| 5 | 0.11 | 2.2 | 3.0 | 51 | 479 | 63 | 318 | 50 | 25 | 10 | 0.0 | 0.0 |
| 6 | 0.05 | 1.7 | 6.5 | 59 | 583 | 63 | 264 | 52 | 37 | 6.6 | 0.0 | 0.0 |
| 7 | 0.02 | 0.99 | 7.2 | 51 | 514 | 62 | 1660 | 45 | 29 | 3.7 | 0.0 | 0.0 |
| 8 | 0.02 | 0.38 | 5.2 | 48 | 393 | 62 | 6130 | 38 | 26 | 2.4 | 0.0 | 0.07 |
| 9 | 0.0 | 6.7 | 2.8 | 46 | 298 | 65 | 1370 | 34 | 24 | 2.2 | 0.0 | 0.05 |
| 10 | 0.0 | 1.7 | 1.7 | 45 | 211 | 63 | 939 | 1020 | 20 | 1.1 | 0.01 | 0.0 |
| 11 | 33 | 1.9 | 1.4 | 44 | 191 | 60 | 707 | 314 | 17 | 1.3 | 30 | 0.0 |
| 12 | 141 | 2.5 | 2.2 | 43 | 178 | 60 | 568 | 167 | 15 | 1.4 | 13 | 0.0 |
| 13 | 723 | 1.9 | 4.3 | 41 | 125 | 59 | 528 | 112 | 13 | 1.4 | 4.4 | 0.0 |
| 14 | 259 | 1.1 | 8.7 | 41 | 109 | 59 | 550 | 72 | 18 | 0.55 | 0.64 | 0.0 |
| 15 | 115 | 1.0 | 10 | 39 | 97 | 59 | 392 | 56 | 16 | 0.42 | 0.23 | 0.0 |
| 16 | 63 | 1.0 | 445 | 38 | 91 | 59 | 335 | 47 | 17 | 0.77 | 0.54 | 0.0 |
| 17 | 48 | 0.39 | 510 | 37 | 87 | 58 | 775 | 628 | 20 | 0.95 | 0.25 | 0.0 |
| 18 | 43 | 0.35 | 381 | 36 | 88 | 78 | 411 | 382 | 16 | 3.1 | 0.0 | 0.0 |
| 19 | 40 | 0.41 | e250 | 36 | 89 | 3760 | 305 | 167 | 14 | 4.6 | 0.0 | 0.01 |
| 20 | 39 | 0.15 | e131 | 36 | 114 | 7780 | 254 | 111 | 11 | 4.1 | 0.0 | 0.0 |
| 21 | 31 | 0.14 | e62 | 36 | 89 | 1480 | 217 | 81 | 9.8 | 3.5 | 0.0 | 0.0 |
| 22 | 29 | 0.12 | e51 | 36 | 80 | 1100 | 190 | 65 | 8.4 | 2.5 | 0.0 | 0.0 |
| 23 | 26 | 0.22 | e54 | 41 | 75 | 1030 | 158 | 53 | 7.0 | 3.0 | 0.0 | 0.0 |
| 24 | 24 | 0.19 | e56 | 153 | 73 | 882 | 134 | 48 | 6.2 | 0.58 | 0.0 | 0.0 |
| 25 | 20 | 0.10 | e46 | 216 | 71 | 704 | 109 | 47 | 5.6 | 0.09 | 0.0 | 0.0 |
| 26 | 16 | 0.03 | e54 | 113 | 67 | 534 | 97 | 49 | 5.4 | 0.06 | 0.0 | 0.0 |
| 27 | 14 | 0.02 | e48 | 86 | 63 | 409 | 91 | 47 | 5.7 | 0.03 | 0.19 | 0.0 |
| 28 | 11 | 1.3 | e46 | 74 | 63 | 357 | 78 | 45 | 7.8 | 0.0 | 2.6 | 0.0 |
| 29 | 11 | 2.2 | e56 | 69 | --- | 289 | 73 | 42 | 5.3 | 0.0 | 2.0 | 0.0 |
| 30 | 9.4 | 6.7 | e56 | 66 | --- | 2830 | 73 | 39 | 4.5 | 0.0 | 0.27 | 0.0 |
| 31 | 7.2 | --- | e51 | 3670 | --- | 2930 | --- | 36 | --- | 0.0 | 0.13 | --- |
| TOTAL | 1703.22 | 50.99 | 2369.4 | 5441 | 7910 | 25215 | 19235 | 4099 | 496.7 | 105.55 | 54.26 | 0.15 |
| MEAN | 54.94 | 1.700 | 76.43 | 175.5 | 282.5 | 813.4 | 641.2 | 132.2 | 16.56 | 3.405 | 1.750 | 0.005 |
| MAX | 723 | 6.7 | 510 | 3670 | 1860 | 7780 | 6130 | 1020 | 37 | 18 | 30 | 0.07 |
| MIN | 0.00 | 0.02 | 1.4 | 36 | 63 | 58 | 73 | 34 | 4.5 | 0.00 | 0.00 | 0.00 |
| AC-FT | 3380 | 101 | 4700 | 10790 | 15690 | 50010 | 38150 | 8130 | 985 | 209 | 108 | 0.3 |

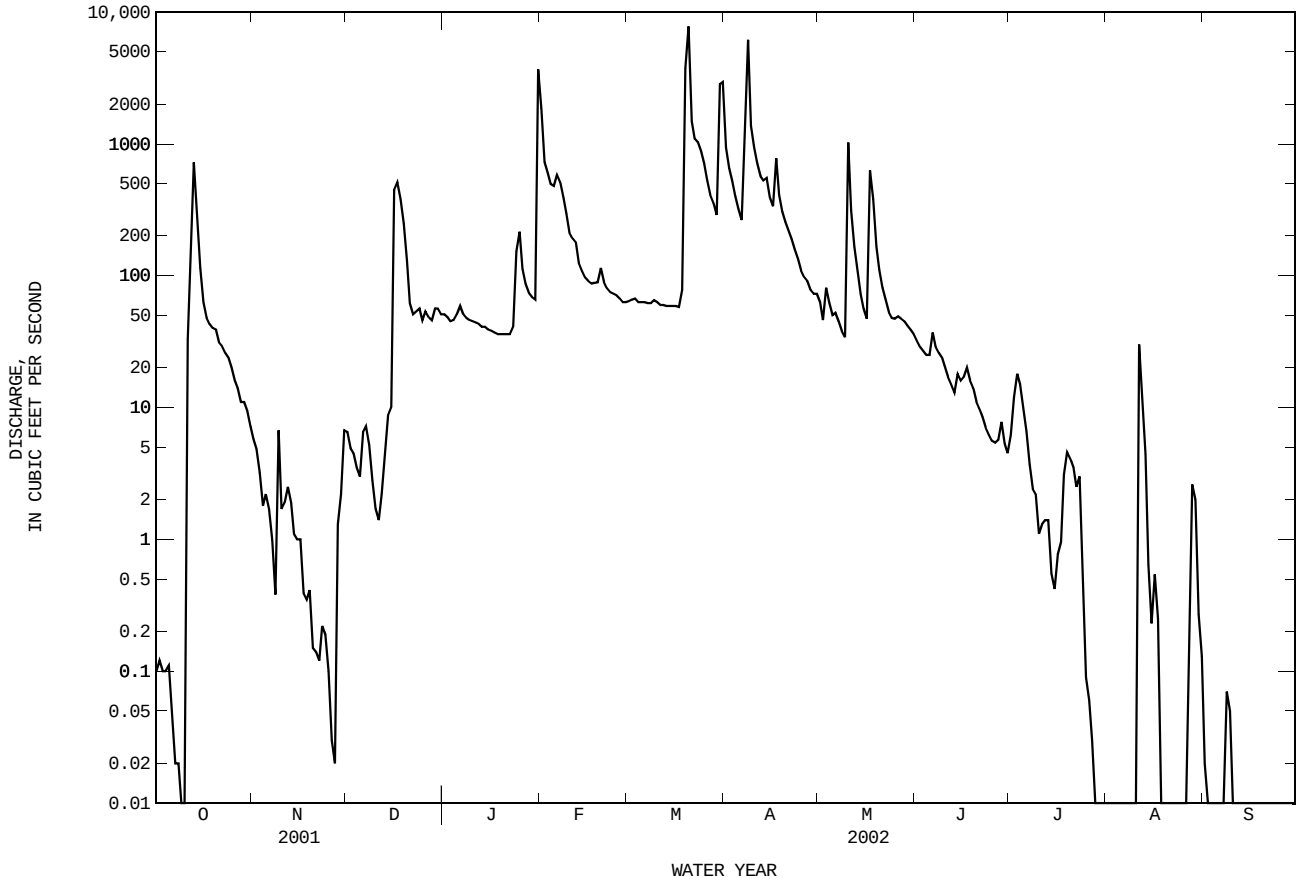
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 83.93 | 126.9 | 152.3 | 105.3 | 218.1 | 251.9 | 161.4 | 255.1 | 127.1 | 21.20 | 3.251 | 6.931 |
| MAX | 1022 | 1120 | 1160 | 805 | 987 | 813 | 804 | 1704 | 737 | 213 | 19.0 | 64.0 |
| (WY) | 1982 | 1995 | 1992 | 1998 | 2001 | 2002 | 1990 | 1982 | 1989 | 1994 | 1990 | 1994 |
| MIN | 0.000 | 0.000 | 0.000 | 0.000 | 1.37 | 2.30 | 4.08 | 2.52 | 0.81 | 0.000 | 0.000 | 0.000 |
| (WY) | 1978 | 1978 | 1978 | 1978 | 1976 | 1976 | 1980 | 1996 | 1996 | 1984 | 1980 | 1977 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1976 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 68580.91 | | 66680.27 | | | |
| ANNUAL MEAN | 187.9 | | 182.7 | | 125.7 | |
| HIGHEST ANNUAL MEAN | | | | | 373 | 1982 |
| LOWEST ANNUAL MEAN | | | | | 4.65 | 1980 |
| HIGHEST DAILY MEAN | 6420 | Feb 16 | 7780 | Mar 20 | 26800 | May 13 1982 |
| LOWEST DAILY MEAN | 0.00 | Jul 16 | 0.00 | Oct 9 | 0.00 | Aug 18 1976 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jul 16 | 0.00 | Jul 28 | 0.00 | Aug 18 1976 |
| MAXIMUM PEAK FLOW | | | 13600 | Mar 20 | 61800 | May 13 1982 |
| MAXIMUM PEAK STAGE | | | 20.27 | Mar 20 | 22.17 | May 13 1982 |
| ANNUAL RUNOFF (AC-FT) | 136000 | | 132300 | | 91030 | |
| 10 PERCENT EXCEEDS | 446 | | 410 | | 252 | |
| 50 PERCENT EXCEEDS | 46 | | 29 | | 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
(Flood hydrograph-partial record station)

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 $mi^2$.

PERIOD OF RECORD.--July 1975 to Sept. 2001 (daily mean discharge). Oct. 2001 to Sept. 2002.(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 fair. 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 $mi^2$. 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 $ft^3/s$ (50,340 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 $ft^3/s$, May 13, 1982, gage height, 32.50 ft. Mimimum 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 692 $ft^3/s$ and maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) | Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|---|---|---|---|
| Dec 17 | 0000 | 709 | 19.15 | Apr 8 | 0915 | 2,690 | 26.94 |
| Jan 31 | 2215 | 2,380 | 26.50 | Apr 17 | 1400 | 2,190 | 26.21 |
| Mar 20 | 0715 | *2,800 | *27.07 | May 17 | 1830 | 913 | 20.86 |
| Mar 30 | 2000 | 2,130 | 26.12 | | | | |

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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 $mi^2$.

PERIOD OF RECORD.--Sept. 1953 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Lavon 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 except those for estimated daily contents, which are poor. The lake is 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 $mi^2$ 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. Conservation pool storage is 456,526 acre-ft. 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 |
| Top of conservation pool | 492.0 |
| Crest of spillway (sill of tainter gates) | 475.5 |
| Lowest gated outlet (invert) | 453.0 |

COOPERATION.--Origin of Capacity Table No. 2 unknown; in use since Oct. 1995.

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, l976, elevation, 465.96 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 587,700 acre-ft, Apr. 11, elevation, 497.63 ft; minimum contents, 292,600 acre-ft, Dec. 14, elevation, 483.30 ft.

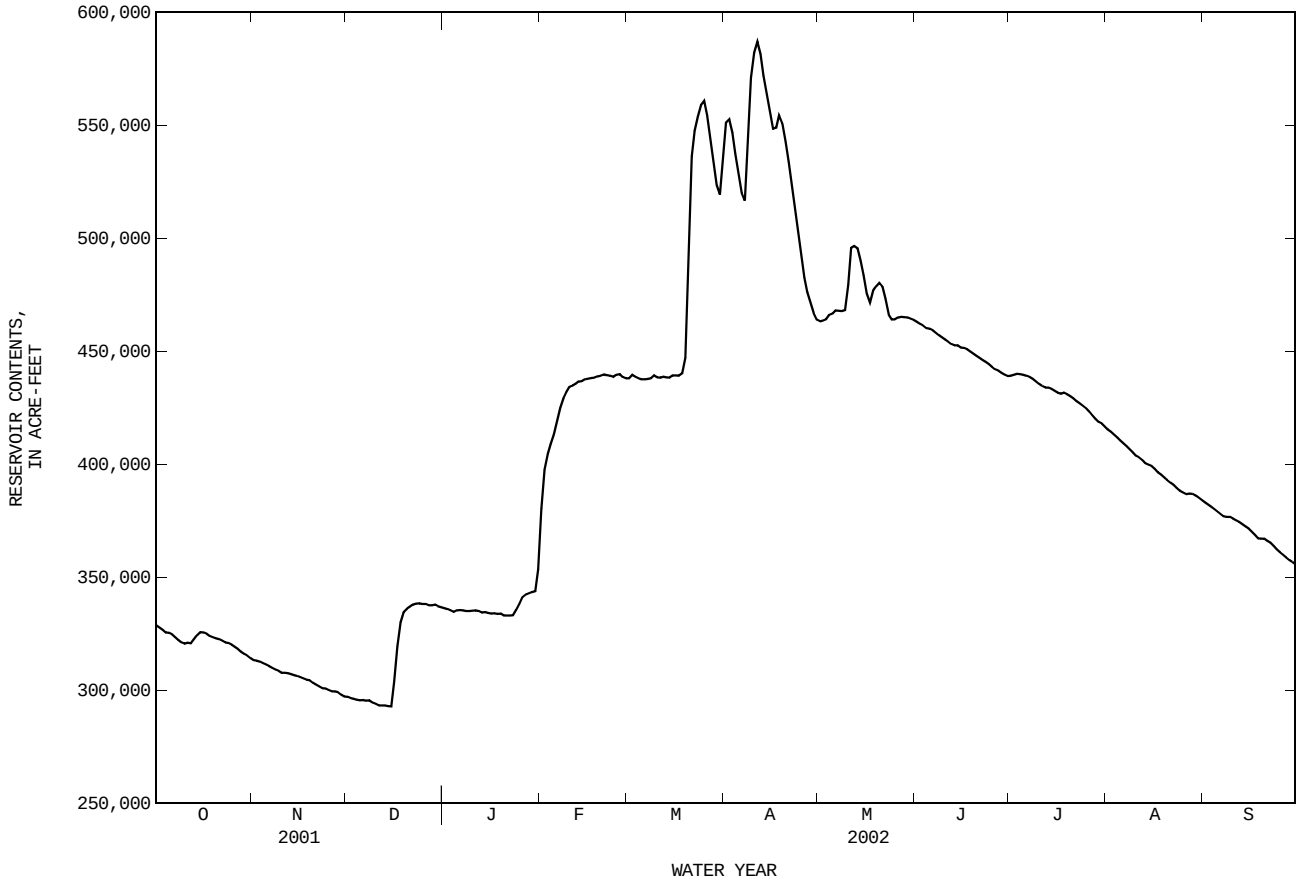
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 328600 | 313300 | 296900 | 336200 | 380100 | 437900 | 551000 | 463100 | 462900 | 439000 | 415300 | 383100 |
| 2 | 327500 | 313000 | 296400 | 335800 | 397500 | 439500 | 552500 | 463400 | 462000 | 439500 | 414200 | 382100 |
| 3 | 326600 | 312500 | 296100 | 335200 | 404400 | 438600 | 546600 | 464000 | 461300 | 439900 | 413100 | 381100 |
| 4 | 325400 | 311900 | 295700 | 334600 | 408800 | 437900 | 537400 | 466000 | 460200 | 439800 | 411700 | 380100 |
| 5 | 325300 | 311200 | 295500 | 335200 | 413000 | 437500 | 528500 | e466500 | 459900 | 439500 | 410400 | 379000 |
| 6 | 324600 | 310500 | 295500 | 335300 | 418800 | 437400 | 520000 | e467900 | 459100 | 439000 | 409100 | 377900 |
| 7 | 323300 | 309700 | 295200 | 335300 | 424700 | 437700 | 516600 | 467800 | 458200 | 438400 | 407800 | 376800 |
| 8 | 322100 | 309000 | 295500 | 335000 | 429000 | 437900 | 541000 | 467600 | 457100 | 437700 | 406400 | 376600 |
| 9 | 321000 | 308400 | 294400 | 334900 | 431600 | 439200 | 571000 | 468100 | 456100 | 436700 | 405000 | 376600 |
| 10 | 320500 | 307600 | 293800 | 335100 | 434100 | 438400 | 582000 | 479300 | 455100 | 435600 | 403600 | 375900 |
| 11 | 320900 | 307600 | 293200 | 335200 | 434700 | 438200 | 586800 | 495600 | 454200 | 434500 | 403000 | 375100 |
| 12 | 320700 | 307400 | 293200 | 335000 | 435500 | 438600 | 581200 | 496400 | 453100 | 433800 | 401800 | 374300 |
| 13 | 322400 | 307000 | 293200 | 334200 | 436500 | 438300 | 571900 | 495400 | 452500 | 433800 | 400300 | 373300 |
| 14 | 324100 | 306600 | 292900 | 334500 | 436600 | 438200 | 564600 | 489800 | 452600 | 433200 | 399700 | 372300 |
| 15 | 325600 | 306100 | 292800 | 334100 | 437500 | 439100 | 556600 | 483600 | 451500 | 432400 | 399100 | 371500 |
| 16 | 325500 | 305600 | 303600 | 333800 | 437800 | 439200 | 548400 | 475300 | 451400 | 431600 | 397800 | 370100 |
| 17 | 324900 | 305100 | 319300 | 333900 | 438100 | 439100 | 548800 | 471400 | 450700 | 431100 | 396300 | 368700 |
| 18 | 323800 | 304400 | 329800 | 333700 | 438100 | 440100 | 554300 | 476800 | 449800 | 431600 | 395200 | 367100 |
| 19 | 323300 | 304400 | 334400 | 333700 | 438700 | 447000 | 550800 | 478700 | 448800 | 430800 | 394100 | 367000 |
| 20 | 322900 | 303200 | 335900 | 332900 | 439100 | 496700 | 542900 | 480100 | 447900 | 429900 | 392900 | 367000 |
| 21 | 322500 | 302400 | 336800 | 333000 | 439600 | 536100 | 533600 | 478400 | 447000 | 429000 | 391800 | 366000 |
| 22 | 321800 | 301500 | 337700 | 333000 | 439300 | 547500 | 523800 | 472800 | 446000 | 427900 | 390700 | 365100 |
| 23 | 321100 | 300700 | 338300 | 333200 | 439100 | 553700 | 513200 | 466000 | 445200 | 426900 | 389500 | 363700 |
| 24 | 320800 | 300700 | 338300 | 335400 | 438500 | 558800 | 503100 | 464000 | 444100 | 425900 | 388200 | 362300 |
| 25 | 320100 | 300000 | 338100 | 338200 | 439500 | 560600 | 492900 | 463900 | 443000 | 424800 | 387300 | 361000 |
| 26 | 319100 | 299400 | 338000 | 341000 | 439800 | 554300 | 482500 | 464900 | 441900 | 423200 | 386700 | 359900 |
| 27 | 318300 | 299400 | 337500 | 342100 | 438500 | 544100 | 476100 | 465200 | 441300 | 421600 | 386900 | 358600 |
| 28 | 317000 | 299100 | 337500 | 342700 | 438000 | 533200 | 471500 | 465000 | 440300 | 420000 | 386700 | 357400 |
| 29 | 316000 | 298000 | 337800 | 343300 | --- | 523300 | 466800 | 464800 | 439500 | 418700 | 386100 | 356600 |
| 30 | 315200 | 297200 | 337100 | 343700 | --- | 519200 | 463800 | 464200 | 438900 | 417900 | 385200 | 355600 |
| 31 | 314200 | --- | 336600 | 353400 | --- | 535200 | --- | 463700 | --- | 416700 | 384100 | --- |
| TOTAL | 9985100 | 9162900 | 9757000 | 10432600 | 12026900 | 14802500 | 15980200 | 14649700 | 13531600 | 13360400 | 12340000 | 11101800 |
| MEAN | 322100 | 305400 | 314700 | 336500 | 429500 | 477500 | 532700 | 472600 | 451100 | 431000 | 398100 | 370100 |
| MAX | 328600 | 313300 | 338300 | 353400 | 439800 | 560600 | 586800 | 496400 | 462900 | 439900 | 415300 | 383100 |
| MIN | 314200 | 297200 | 292800 | 332900 | 380100 | 437400 | 463800 | 463100 | 438900 | 416700 | 384100 | 355600 |
| (+) | 484.57 | 483.57 | 485.85 | 486.77 | 491.12 | 495.48 | 492.34 | 492.33 | 491.16 | 490.06 | 488.41 | 486.90 |
| (@) | -15500 | -17000 | +39400 | +16800 | +84600 | +97200 | -71400 | -100 | -24800 | -22200 | -32600 | -28500 |

CAL YR 2001 MAX 659500 MIN 292800 (@) -130500
WTR YR 2002 MAX 586800 MIN 292800 (@) +25900

(+) Elevation, in feet, at end of month.
(@) Change in Contents, in acre-feet.

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, and 1.5 mi southwest of Sachse.

DRAINAGE AREA.--120 $mi^2$.

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. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 53 | 77 | 57 | 71 | 468 | 76 | 240 | 106 | 74 | 225 | 53 | 44 |
| 2 | 48 | 72 | 52 | 70 | 204 | 94 | 177 | 108 | 68 | 219 | 53 | 43 |
| 3 | 48 | 72 | 53 | 71 | 154 | 92 | 145 | 415 | 66 | 140 | 50 | 40 |
| 4 | 53 | 75 | 54 | 69 | 125 | 90 | 126 | 180 | 67 | 85 | 51 | 39 |
| 5 | 79 | 73 | 54 | 116 | 694 | 86 | 121 | 800 | 76 | 60 | 48 | 36 |
| 6 | 56 | 76 | 122 | 66 | 527 | 84 | 146 | e200 | 72 | 54 | 42 | 37 |
| 7 | 45 | 63 | 60 | 69 | 311 | 82 | 1730 | 97 | 59 | 51 | 41 | 37 |
| 8 | 43 | 52 | 54 | 65 | 189 | 87 | 3260 | 90 | 58 | 48 | 54 | 511 |
| 9 | 41 | 49 | 52 | 60 | 151 | 147 | 335 | 95 | 67 | 50 | 47 | 457 |
| 10 | 43 | 52 | 52 | 63 | 120 | 89 | 221 | 1740 | 60 | e47 | 212 | 99 |
| 11 | 429 | 187 | 69 | 61 | 111 | 100 | 184 | 131 | 55 | 49 | 75 | 69 |
| 12 | 135 | 91 | 95 | 58 | 105 | 91 | 159 | 83 | 52 | 286 | 50 | 62 |
| 13 | 801 | 73 | 112 | 62 | 99 | 84 | 317 | 100 | 112 | 140 | 45 | 61 |
| 14 | 105 | 62 | 86 | 61 | 92 | 81 | 226 | 70 | 122 | 75 | 340 | 59 |
| 15 | 84 | 58 | 72 | 58 | 88 | 83 | 160 | 65 | 61 | 65 | 93 | 76 |
| 16 | 88 | 63 | 4290 | 58 | 83 | 84 | 829 | 64 | 303 | 64 | 47 | 57 |
| 17 | 88 | 61 | 576 | 58 | 77 | 88 | 536 | 895 | 79 | 108 | 40 | 54 |
| 18 | 85 | 57 | 158 | 59 | 78 | 524 | 157 | 178 | 60 | 72 | 39 | 53 |
| 19 | 79 | 60 | 122 | 55 | 84 | 3260 | 135 | 117 | 57 | 56 | 39 | 211 |
| 20 | 78 | 56 | 101 | 52 | 75 | 5540 | 141 | 102 | 51 | 50 | 39 | 81 |
| 21 | 76 | 53 | 93 | 50 | 70 | 383 | 143 | 96 | 47 | 46 | 41 | 61 |
| 22 | 85 | 55 | 91 | 67 | 71 | 239 | 134 | 89 | 50 | 47 | 43 | 57 |
| 23 | 84 | 59 | 84 | 105 | 75 | 199 | 125 | 96 | 49 | 45 | 41 | 52 |
| 24 | 80 | 85 | 79 | 860 | 74 | 175 | 117 | 89 | 48 | 44 | 38 | 51 |
| 25 | 69 | 53 | 71 | 156 | 75 | 156 | 111 | 83 | 48 | 42 | 43 | 50 |
| 26 | 71 | 49 | 69 | 95 | e77 | 133 | 193 | 506 | 48 | 42 | 52 | 46 |
| 27 | 72 | 48 | 68 | 77 | 73 | 125 | 133 | 104 | 60 | 42 | 683 | 42 |
| 28 | 74 | 164 | 81 | 68 | 77 | 121 | 114 | 154 | 50 | 42 | 87 | 48 |
| 29 | 69 | 79 | 74 | 69 | --- | 116 | 103 | 174 | 63 | 44 | 58 | 44 |
| 30 | 71 | 63 | 72 | 76 | --- | 1090 | 113 | 90 | 76 | 45 | 50 | 43 |
| 31 | 76 | --- | 73 | 5230 | --- | 1420 | --- | 75 | --- | 43 | 47 | --- |
| TOTAL | 3308 | 2137 | 7146 | 8155 | 4427 | 15019 | 10631 | 7192 | 2158 | 2426 | 2641 | 2620 |
| MEAN | 106.7 | 71.23 | 230.5 | 263.1 | 158.1 | 484.5 | 354.4 | 232.0 | 71.93 | 78.26 | 85.19 | 87.33 |
| MAX | 801 | 187 | 4290 | 5230 | 694 | 5540 | 3260 | 1740 | 303 | 286 | 683 | 511 |
| MIN | 41 | 48 | 52 | 50 | 70 | 76 | 103 | 64 | 47 | 42 | 38 | 36 |
| AC-FT | 6560 | 4240 | 14170 | 16180 | 8780 | 29790 | 21090 | 14270 | 4280 | 4810 | 5240 | 5200 |

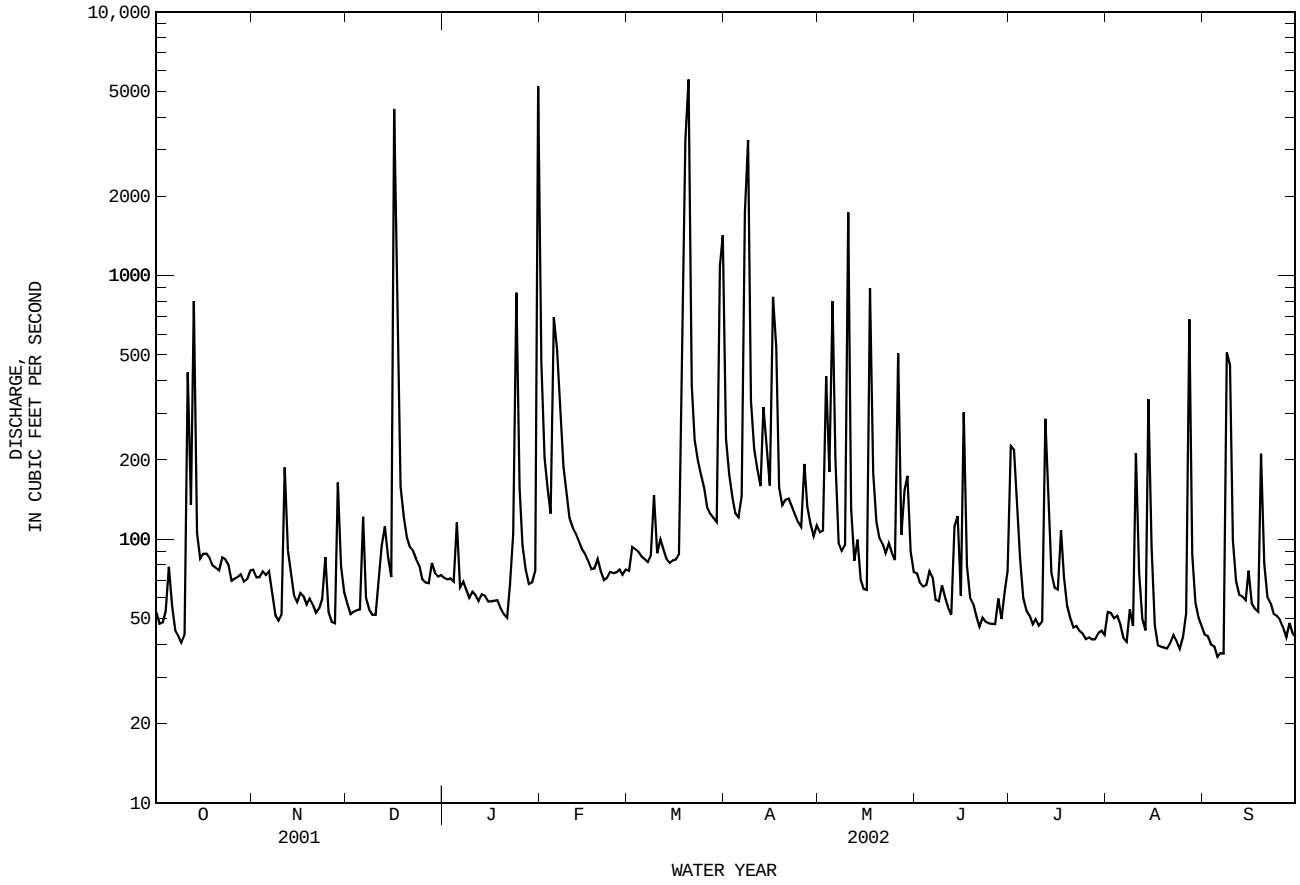
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 132.7 | 128.5 | 167.9 | 115.0 | 169.6 | 195.4 | 165.2 | 228.2 | 145.3 | 50.29 | 37.82 | 56.78 |
| MAX | 610 | 586 | 898 | 617 | 680 | 484 | 573 | 1039 | 566 | 241 | 120 | 180 |
| (WY) | 1982 | 1995 | 1992 | 1998 | 2001 | 2002 | 1990 | 1982 | 1981 | 1994 | 2001 | 1974 |
| 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1968 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 79903 | | 67860 | | | |
| ANNUAL MEAN | 218.9 | | 185.9 | | 132.4 | |
| HIGHEST ANNUAL MEAN | | | | | 269 | 2001 |
| LOWEST ANNUAL MEAN | | | | | 22.2 | 1971 |
| HIGHEST DAILY MEAN | 7570 | Feb 16 | 5540 | Mar 20 | 14900 | May 13 1982 |
| LOWEST DAILY MEAN | 41 | Aug 9 | 36 | Sep 5 | 0.00 | Aug 24 1969 |
| ANNUAL SEVEN-DAY MINIMUM | 43 | Jul 20 | 39 | Sep 1 | 0.00 | Aug 24 1969 |
| MAXIMUM PEAK FLOW | | | 18500 | Mar 20 | 32200 | Jan 5 1998 |
| MAXIMUM PEAK STAGE | | | 27.33 | Mar 20 | 29.62 | May 17 1989 |
| ANNUAL RUNOFF (AC-FT) | 158500 | | 134600 | | 95900 | |
| 10 PERCENT EXCEEDS | 350 | | 225 | | 212 | |
| 50 PERCENT EXCEEDS | 86 | | 75 | | 49 | |
| 90 PERCENT EXCEEDS | 48 | | 46 | | 8.5 | |

e Estimated

08061540 Rowlett Creek near Sachse, TX--Continued



## 08061550 Lake Ray Hubbard near Forney, TX

LOCATION.--Lat 32°48′00", long 96°29′45", Kaufman County, Hydrologic Unit 12030106, near 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.

DRAINAGE AREA.--1,071 $mi^2$.

PERIOD OF RECORD.--Jan. 1968 to Dec. 1993, Oct. 1996 to current year.
Water-quality records.--Chemical data: Oct. 1969 to Sept. 1979.

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

REMARKS.--No estimated daily contents. Records poor. 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 |

COOPERATION.--Capacity table No. 2 was provided by Forrest and Cotton, Consulting Engineers, for the city of Dallas, and put in use on Oct. 1, 1997.

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, 431,100 acre-ft, Mar. 20, elevation, 436.30 ft; minimum contents, 353,700 acre-ft, Sept. 30, elevation, 432.57 ft.

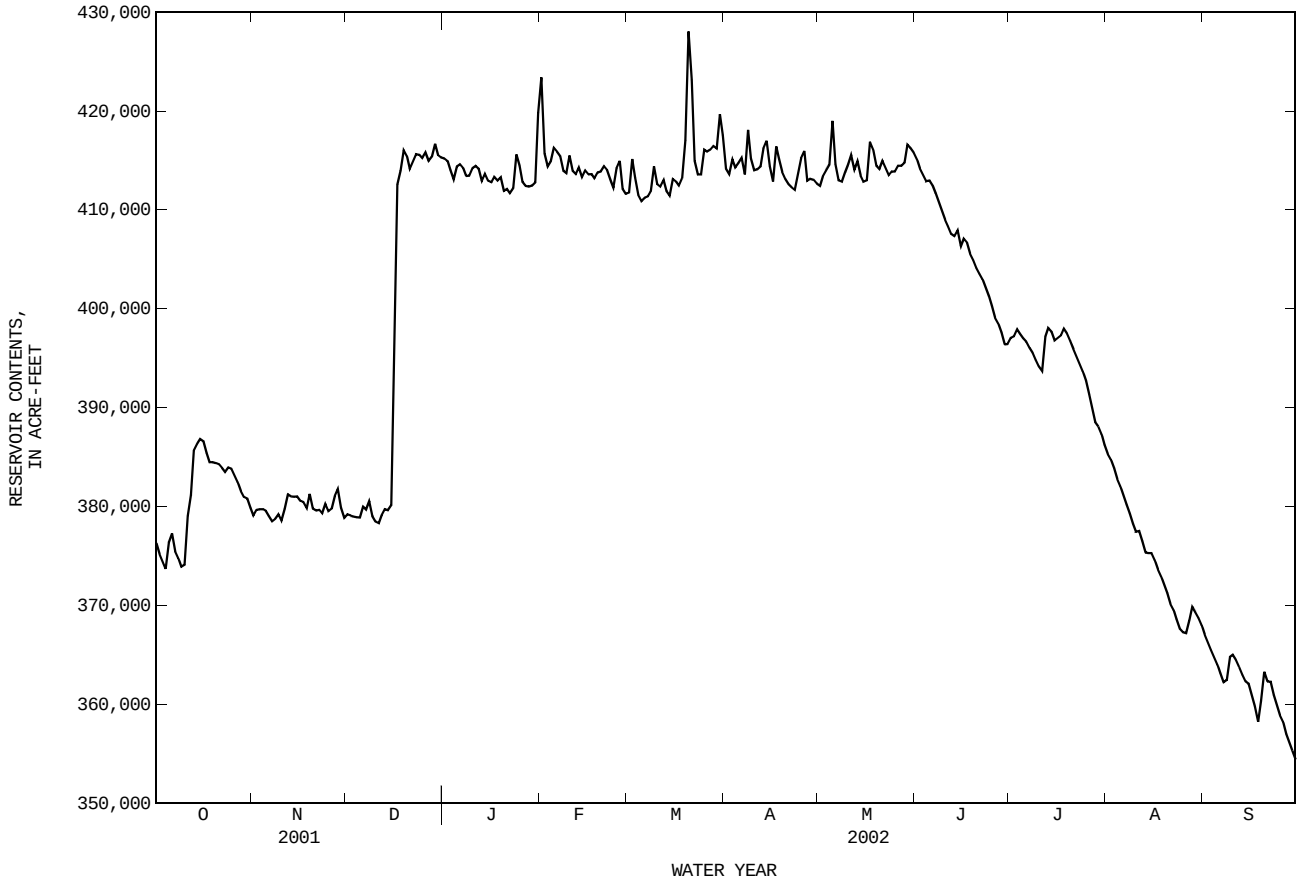
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376300 | 379100 | 379200 | 415200 | 423400 | 411700 | 414200 | 412400 | 415100 | 397000 | 385300 | 367100 |
| 2 | 375200 | 379600 | 379100 | 414900 | 415700 | 415100 | 413600 | 413400 | 414200 | 397200 | 384700 | 366300 |
| 3 | 374400 | 379700 | 379000 | 414000 | 414400 | 413300 | 415100 | 414000 | 413500 | 397900 | 383800 | 365500 |
| 4 | 373700 | 379700 | 378900 | 413100 | 414800 | 411500 | 414200 | 414500 | 412900 | 397400 | 382800 | 364700 |
| 5 | 376400 | 379600 | 378900 | 414400 | 416300 | 410900 | 414700 | 419000 | 413000 | 397000 | 382100 | 364000 |
| 6 | 377200 | 379000 | 380000 | 414600 | 415900 | 411200 | 415200 | 414600 | 412400 | 396600 | 381100 | 363100 |
| 7 | 375400 | 378500 | 379700 | 414200 | 415400 | 411300 | 413600 | 412900 | 411700 | 396000 | 380200 | 362200 |
| 8 | 374700 | 378700 | 380500 | 413400 | 413900 | 411900 | 418100 | 412800 | 410800 | 395500 | 379300 | 362400 |
| 9 | 373900 | 379200 | 379000 | 413400 | 413700 | 414400 | 415200 | 413800 | 409900 | 394800 | 378200 | 364800 |
| 10 | 374100 | 378600 | 378400 | 414200 | 415500 | 412600 | 414000 | 414600 | 409000 | 394200 | 377400 | 365000 |
| 11 | 379000 | 379700 | 378300 | 414400 | 413900 | 412300 | 414100 | 415500 | 408300 | 393700 | 377500 | 364500 |
| 12 | 381200 | 381200 | 379100 | 414200 | 413600 | 413000 | 414400 | 414100 | 407600 | 397200 | 376500 | 363700 |
| 13 | 385600 | 381000 | 379700 | 412900 | 414300 | 411900 | 416200 | 414900 | 407300 | 398000 | 375300 | 363000 |
| 14 | 386300 | 381000 | 379600 | 413600 | 413300 | 411400 | 417000 | 413500 | 407900 | 397700 | 375300 | 362300 |
| 15 | 386800 | 381000 | 380100 | 412900 | 414000 | 413100 | 414400 | 412800 | 406300 | 396800 | 375300 | 362100 |
| 16 | 386600 | 380600 | 398700 | 412800 | 413600 | 412900 | 412900 | 412900 | 407100 | 397000 | 374600 | 360900 |
| 17 | 385400 | 380400 | 412500 | 413300 | 413600 | 412400 | 416400 | 416900 | 406700 | 397300 | 373600 | 359700 |
| 18 | 384500 | 379800 | 413900 | 413000 | 413200 | 413200 | 415100 | 416100 | 405600 | 398000 | 372900 | 358200 |
| 19 | 384500 | 381300 | 416100 | 413300 | 413800 | 417000 | 413800 | 414400 | 404900 | 397500 | 372100 | 360300 |
| 20 | 384400 | 379800 | 415400 | 411900 | 413900 | 428000 | 413100 | 414100 | 404100 | 396800 | 371200 | 363300 |
| 21 | 384300 | 379600 | 414100 | 412100 | 414400 | 423100 | 412600 | 415000 | 403500 | 395900 | 370100 | 362300 |
| 22 | 383900 | 379600 | 414900 | 411700 | 414000 | 414900 | 412300 | 414200 | 402900 | 395200 | 369500 | 362300 |
| 23 | 383500 | 379300 | 415600 | 412100 | 413100 | 413600 | 412000 | 413500 | 402100 | 394400 | 368600 | 360900 |
| 24 | 383900 | 380300 | 415600 | 415600 | 412200 | 413600 | 413600 | 413900 | 401200 | 393700 | 367600 | 359900 |
| 25 | 383800 | 379500 | 415200 | 414400 | 414200 | 416100 | 415200 | 413900 | 400300 | 392700 | 367300 | 358900 |
| 26 | 383100 | 379800 | 415800 | 412800 | 414900 | 415900 | 415900 | 414500 | 399100 | 391300 | 367200 | 358200 |
| 27 | 382500 | 381100 | 414900 | 412400 | 412100 | 416100 | 412900 | 414500 | 398500 | 389900 | 368500 | 356900 |
| 28 | 381600 | 381700 | 415400 | 412400 | 411600 | 416500 | 413100 | 414800 | 397600 | 388500 | 369800 | 356100 |
| 29 | 380900 | 379900 | 416600 | 412500 | --- | 416200 | 413000 | 416600 | 396400 | 388100 | 369300 | 355300 |
| 30 | 380800 | 378800 | 415600 | 412800 | --- | 419700 | 412600 | 416200 | 396400 | 387300 | 368700 | 354400 |
| 31 | 379800 | --- | 415300 | 419800 | --- | 417600 | --- | 415800 | --- | 386200 | 368000 | --- |
| MEAN | 380800 | 379900 | 397300 | 413600 | 414400 | 414600 | 414300 | 414500 | 406200 | 394700 | 374600 | 361600 |
| MAX | 386800 | 381700 | 416600 | 419800 | 423400 | 428000 | 418100 | 419000 | 415100 | 398000 | 385300 | 367100 |
| MIN | 373700 | 378500 | 378300 | 411700 | 411600 | 410900 | 412000 | 412400 | 396400 | 386200 | 367200 | 354400 |
| (+) | 433.90 | 433.85 | 435.58 | 435.79 | 435.41 | 435.69 | 435.46 | 435.60 | 434.70 | 434.21 | 433.30 | 432.60 |
| (@) | +2400 | -1000 | +36500 | +4500 | -8200 | +6000 | -5000 | +3200 | -19400 | -10200 | -18200 | -13600 |

CAL YR 2001 MAX 434800 MIN 366700 (@) -3000
WTR YR 2002 MAX 428000 MIN 354400 (@) -23000

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08061550 Lake Ray Hubbard near Forney, TX--Continued



## 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 $mi^2$, of which 1,071 $mi^2$ 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.--No estimated daily discharges. Records good. 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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

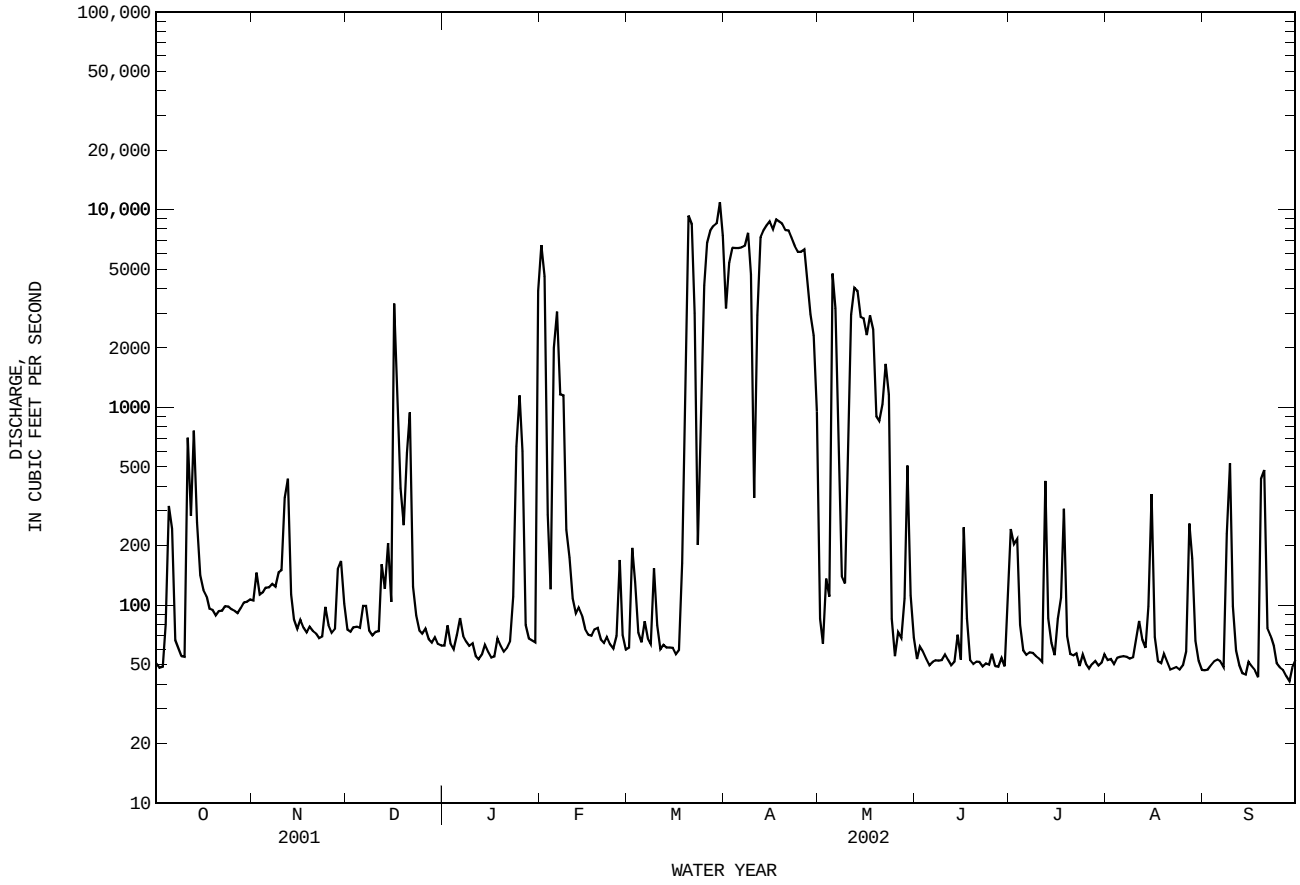
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 51 | 106 | 75 | 63 | 6630 | 61 | 3160 | 85 | 53 | 243 | 53 | 47 |
| 2 | 48 | 146 | 73 | 79 | 4610 | 195 | 5390 | 64 | 62 | 203 | 53 | 47 |
| 3 | 49 | 113 | 77 | 64 | 286 | 131 | 6430 | 136 | 58 | 215 | 50 | 50 |
| 4 | 80 | 116 | 78 | 60 | 121 | 73 | 6410 | 111 | 54 | 80 | 54 | 52 |
| 5 | 318 | 123 | 77 | 71 | 2000 | 65 | 6410 | 4750 | 50 | 59 | 55 | 53 |
| 6 | 243 | 123 | 99 | 86 | 3050 | 83 | 6440 | 3180 | 52 | 56 | 55 | 52 |
| 7 | 67 | 128 | 99 | 70 | 1170 | 68 | 6580 | 541 | 53 | 58 | 55 | 49 |
| 8 | 60 | 124 | 74 | 66 | 1150 | 64 | 7640 | 140 | 52 | 57 | 54 | 230 |
| 9 | 55 | 146 | 70 | 62 | 241 | 153 | 4700 | 129 | 53 | 56 | 54 | 521 |
| 10 | 55 | 150 | 73 | 64 | 174 | 79 | 348 | 676 | 56 | 54 | 67 | 99 |
| 11 | 702 | 349 | 74 | 55 | 108 | 60 | 2920 | 2950 | 53 | 52 | 83 | 59 |
| 12 | 283 | 435 | 161 | 53 | 91 | 63 | 7260 | 4040 | 50 | 424 | 67 | 50 |
| 13 | 763 | 113 | 121 | 56 | 97 | 61 | 7830 | 3880 | 52 | 86 | 61 | 45 |
| 14 | 261 | 84 | 206 | 63 | 89 | 61 | 8310 | 2860 | 71 | 64 | 98 | 45 |
| 15 | 142 | 76 | 104 | 58 | 76 | 61 | 8730 | 2820 | 53 | 56 | 364 | 52 |
| 16 | 120 | 84 | 3350 | 54 | 71 | 56 | 7970 | 2320 | 247 | 86 | 69 | 49 |
| 17 | 111 | 77 | 1070 | 55 | 70 | 59 | 8930 | 2910 | 86 | 109 | 52 | 47 |
| 18 | 96 | 73 | 392 | 68 | 75 | 163 | 8740 | 2470 | 53 | 307 | 51 | 43 |
| 19 | 95 | 78 | 253 | 63 | 77 | 1970 | 8490 | 901 | 50 | 70 | 57 | 437 |
| 20 | 89 | 74 | 590 | 58 | 67 | 9330 | 7890 | 854 | 52 | 56 | 52 | 482 |
| 21 | 93 | 72 | 941 | 61 | 64 | 8480 | 7870 | 1040 | 52 | 56 | 47 | 77 |
| 22 | 94 | 68 | 124 | 65 | 69 | 3000 | 7250 | 1660 | 49 | 57 | 48 | 70 |
| 23 | 99 | 69 | 89 | 110 | 63 | 202 | 6570 | 1160 | 51 | 49 | 49 | 62 |
| 24 | 99 | 98 | 74 | 635 | 60 | 892 | 6140 | 86 | 50 | 56 | 47 | 51 |
| 25 | 95 | 79 | 72 | 1150 | 70 | 4140 | 6120 | 55 | 57 | 50 | 50 | 48 |
| 26 | 93 | 72 | 76 | 602 | 169 | 6790 | 6280 | 73 | 49 | 48 | 58 | 47 |
| 27 | 91 | 76 | 67 | 79 | 71 | 7820 | 4550 | 68 | 49 | 50 | 259 | 44 |
| 28 | 97 | 152 | 65 | 68 | 60 | 8280 | 2970 | 108 | 54 | 52 | 172 | 41 |
| 29 | 103 | 167 | 69 | 66 | --- | 8550 | 2320 | 507 | 49 | 50 | 66 | 49 |
| 30 | 104 | 102 | 64 | 65 | --- | 10900 | 948 | 112 | 96 | 51 | 52 | 53 |
| 31 | 107 | --- | 62 | 3880 | --- | 7420 | --- | 69 | --- | 57 | 47 | --- |
| TOTAL | 4763 | 3673 | 8819 | 8049 | 20879 | 79330 | 181596 | 40755 | 1866 | 2967 | 2399 | 3051 |
| MEAN | 153.6 | 122.4 | 284.5 | 259.6 | 745.7 | 2559 | 6053 | 1315 | 62.20 | 95.71 | 77.39 | 101.7 |
| MAX | 763 | 435 | 3350 | 3880 | 6630 | 10900 | 8930 | 4750 | 247 | 424 | 364 | 521 |
| MIN | 48 | 68 | 62 | 53 | 60 | 56 | 348 | 55 | 49 | 48 | 47 | 41 |
| AC-FT | 9450 | 7290 | 17490 | 15970 | 41410 | 157400 | 360200 | 80840 | 3700 | 5890 | 4760 | 6050 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 366.7 | 512.8 | 628.1 | 625.9 | 910.6 | 1255 | 1208 | 1545 | 1059 | 384.2 | 125.0 | 184.2 |
| MAX | 3975 | 3076 | 3276 | 4826 | 4043 | 5918 | 6053 | 8008 | 5436 | 2207 | 1246 | 1583 |
| (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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1973 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 479746 | | 358147 | | | |
| ANNUAL MEAN | 1314 | | 981.2 | | 723.2 | |
| HIGHEST ANNUAL MEAN | | | | | 1941 | 1995 |
| LOWEST ANNUAL MEAN | | | | | 37.6 | 1978 |
| HIGHEST DAILY MEAN | 18200 | Feb 16 | 10900 | Mar 30 | 50700 | May 4 1990 |
| LOWEST DAILY MEAN | 48 | Oct 2 | 41 | Sep 28 | 8.0 | Jun 23 1979 |
| ANNUAL SEVEN-DAY MINIMUM | 51 | Sep 27 | 47 | Sep 12 | 15 | Sep 30 1977 |
| MAXIMUM PEAK FLOW | | | 13600 | Mar 30 | 53000 | May 3 1990 |
| MAXIMUM PEAK STAGE | | | 16.69 | Mar 30 | 22.01 | May 3 1990 |
| ANNUAL RUNOFF (AC-FT) | 951600 | | 710400 | | 523900 | |
| 10 PERCENT EXCEEDS | 5570 | | 4080 | | 2320 | |
| 50 PERCENT EXCEEDS | 95 | | 77 | | 64 | |
| 90 PERCENT EXCEEDS | 58 | | 50 | | 27 | |

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 $mi^2$.

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 1886 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.

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 fair, except those for estimated daily mean discharges, which are poor. Since Sept. 1953, at least 10% of contributing drainage area has been regulated by major reservoirs. 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 the flood-detention pools of 20 floodwater-retarding structures. These structures control runoff from a 39.2 $mi^2$ area above this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--4 years (water years 1950-53) prior to regulation by Lavon Lake, 652 $ft^3/s$ (472,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1950-53).--Maximum discharge, 16,400 $ft^3/s$ May 2, 1953 (gage height, 19.87 ft); no flow at times.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 85 | 87 | 101 | 175 | 4930 | 88 | e5200 | e210 | 83 | 175 | 86 | 91 |
| 2 | 83 | 90 | 95 | 168 | 7150 | 105 | e4850 | e180 | 78 | 170 | 84 | 88 |
| 3 | 82 | 95 | 95 | 172 | e5200 | 158 | e6240 | e240 | 78 | 247 | 83 | 89 |
| 4 | 86 | 87 | 95 | 146 | 370 | 100 | e6550 | e180 | 76 | 121 | 82 | 90 |
| 5 | 319 | 87 | 94 | 146 | 1850 | 92 | e6530 | e4000 | 75 | 76 | 83 | 89 |
| 6 | 492 | 87 | 108 | 163 | 3200 | 89 | e6570 | e4420 | 74 | 72 | 83 | 88 |
| 7 | 128 | 86 | 112 | 149 | e2220 | 96 | e7740 | e1760 | 72 | 79 | 83 | 90 |
| 8 | 100 | 87 | 98 | 141 | e1390 | 91 | 7300 | e390 | 74 | 70 | 82 | 101 |
| 9 | 92 | 87 | 91 | 139 | e650 | 110 | e6790 | e300 | 77 | 71 | 81 | 591 |
| 10 | 89 | 97 | 90 | 132 | e327 | 113 | e2540 | e840 | 77 | 70 | 217 | 164 |
| 11 | 1210 | 106 | 93 | 129 | 190 | 91 | e1710 | e2860 | 79 | 68 | 126 | 104 |
| 12 | 886 | 502 | 142 | 121 | 147 | 88 | e6000 | e3780 | 75 | 499 | 98 | 95 |
| 13 | 2050 | 135 | 138 | 121 | 137 | 88 | e7910 | e4030 | 74 | 252 | 90 | 89 |
| 14 | 1030 | 103 | 179 | 121 | 127 | 88 | e8410 | e3280 | 78 | 137 | 89 | 80 |
| 15 | 332 | 96 | 522 | 121 | 115 | 86 | e8770 | e2900 | 79 | 125 | 251 | 80 |
| 16 | 223 | 96 | 6850 | 118 | 108 | 85 | e8830 | e2550 | 129 | 181 | 130 | 82 |
| 17 | 174 | 98 | 7020 | 114 | 104 | 85 | e9250 | e3140 | 107 | 202 | 100 | 81 |
| 18 | 144 | 91 | 2010 | 114 | 104 | 106 | e9080 | e2900 | 67 | 675 | 91 | 79 |
| 19 | 130 | 92 | 809 | 122 | 108 | 660 | e8720 | e1510 | 63 | 191 | 94 | 293 |
| 20 | 121 | 94 | 980 | 118 | 105 | e11100 | e8230 | 1140 | 63 | 121 | 94 | 818 |
| 21 | 113 | 93 | 1550 | 117 | 99 | e10800 | e8020 | 901 | 66 | 109 | 89 | 197 |
| 22 | 106 | 90 | 904 | 120 | 98 | e7700 | e7590 | 1540 | 66 | 106 | 88 | 116 |
| 23 | 103 | 88 | 561 | 210 | 99 | e1900 | e6920 | 1670 | 65 | 100 | 89 | 110 |
| 24 | 98 | 103 | 371 | 700 | 95 | e262 | e6400 | 360 | 67 | 89 | 89 | 92 |
| 25 | 93 | 100 | 303 | 1290 | 95 | e3040 | e6240 | 93 | 66 | 90 | 86 | 86 |
| 26 | 91 | 91 | 273 | 1070 | 110 | e6000 | e6390 | 82 | 66 | 84 | 91 | 85 |
| 27 | 91 | 88 | 245 | 241 | 121 | 7600 | e5270 | 94 | 64 | 84 | 229 | 83 |
| 28 | 88 | 117 | 223 | 162 | 93 | e8250 | e3610 | 103 | 65 | 88 | 299 | 82 |
| 29 | 88 | 154 | 208 | 151 | --- | e8580 | e2640 | 513 | 79 | 91 | 119 | 81 |
| 30 | 87 | 115 | 196 | 146 | --- | e10900 | e1510 | 285 | 77 | 86 | 100 | 85 |
| 31 | 86 | --- | 184 | 1780 | --- | e11500 | --- | 95 | --- | 85 | 93 | --- |
| TOTAL | 8900 | 3342 | 24740 | 8717 | 29342 | 90051 | 191810 | 46346 | 2259 | 4614 | 3499 | 4299 |
| MEAN | 287.1 | 111.4 | 798.1 | 281.2 | 1048 | 2905 | 6394 | 1495 | 75.30 | 148.8 | 112.9 | 143.3 |
| MAX | 2050 | 502 | 7020 | 1780 | 7150 | 11500 | 9250 | 4420 | 129 | 675 | 299 | 818 |
| MIN | 82 | 86 | 90 | 114 | 93 | 85 | 1510 | 82 | 63 | 68 | 81 | 79 |
| AC-FT | 17650 | 6630 | 49070 | 17290 | 58200 | 178600 | 380500 | 91930 | 4480 | 9150 | 6940 | 8530 |

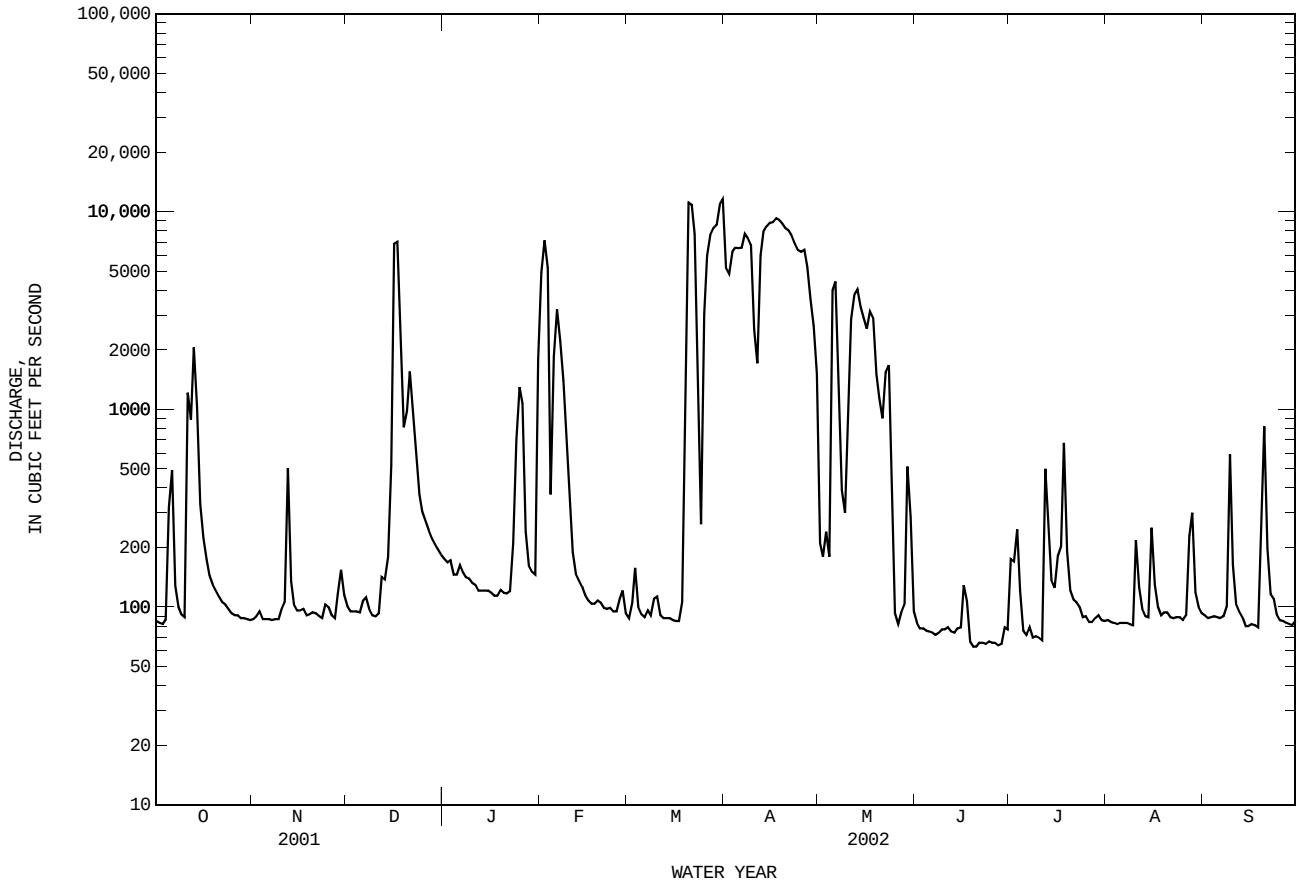
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 375.0 | 473.9 | 695.2 | 616.7 | 864.0 | 1091 | 1186 | 1700 | 1024 | 412.8 | 158.2 | 201.2 |
| MAX | 4116 | 3293 | 4401 | 5039 | 4176 | 8028 | 6394 | 9586 | 5718 | 2026 | 1459 | 1560 |
| (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 | 0.000 | 0.000 |
| (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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1954 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 625821 | | 417919 | | | |
| ANNUAL MEAN | 1715 | | 1145 | | 732.3 | |
| HIGHEST ANNUAL MEAN | | | | | 2209 | 1995 |
| LOWEST ANNUAL MEAN | | | | | 38.4 | 1955 |
| HIGHEST DAILY MEAN | 20700 | Feb 17 | 11500 | Mar 31 | 48800 | May 5 1990 |
| LOWEST DAILY MEAN | 74 | Aug 8 | 63 | Jun 19 | 0.00 | Oct 1 1953 |
| ANNUAL SEVEN-DAY MINIMUM | 77 | Aug 4 | 65 | Jun 19 | 0.00 | Oct 1 1953 |
| MAXIMUM PEAK FLOW | | | 12700 | Mar 31 | 59900 | May 5 1990 |
| MAXIMUM PEAK STAGE | | | 15.44 | Mar 31 | 27.17 | May 5 1990 |
| ANNUAL RUNOFF (AC-FT) | 1241000 | | 828900 | | 530600 | |
| 10 PERCENT EXCEEDS | 6810 | | 5200 | | 2170 | |
| 50 PERCENT EXCEEDS | 144 | | 113 | | 98 | |
| 90 PERCENT EXCEEDS | 82 | | 80 | | 21 | |

e Estimated
z Period of regulated streamflow.



08062000 East Fork Trinity River near Crandall, TX--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 338.69 ft above NGVD of 1929.

REMARKS.--Records fair.

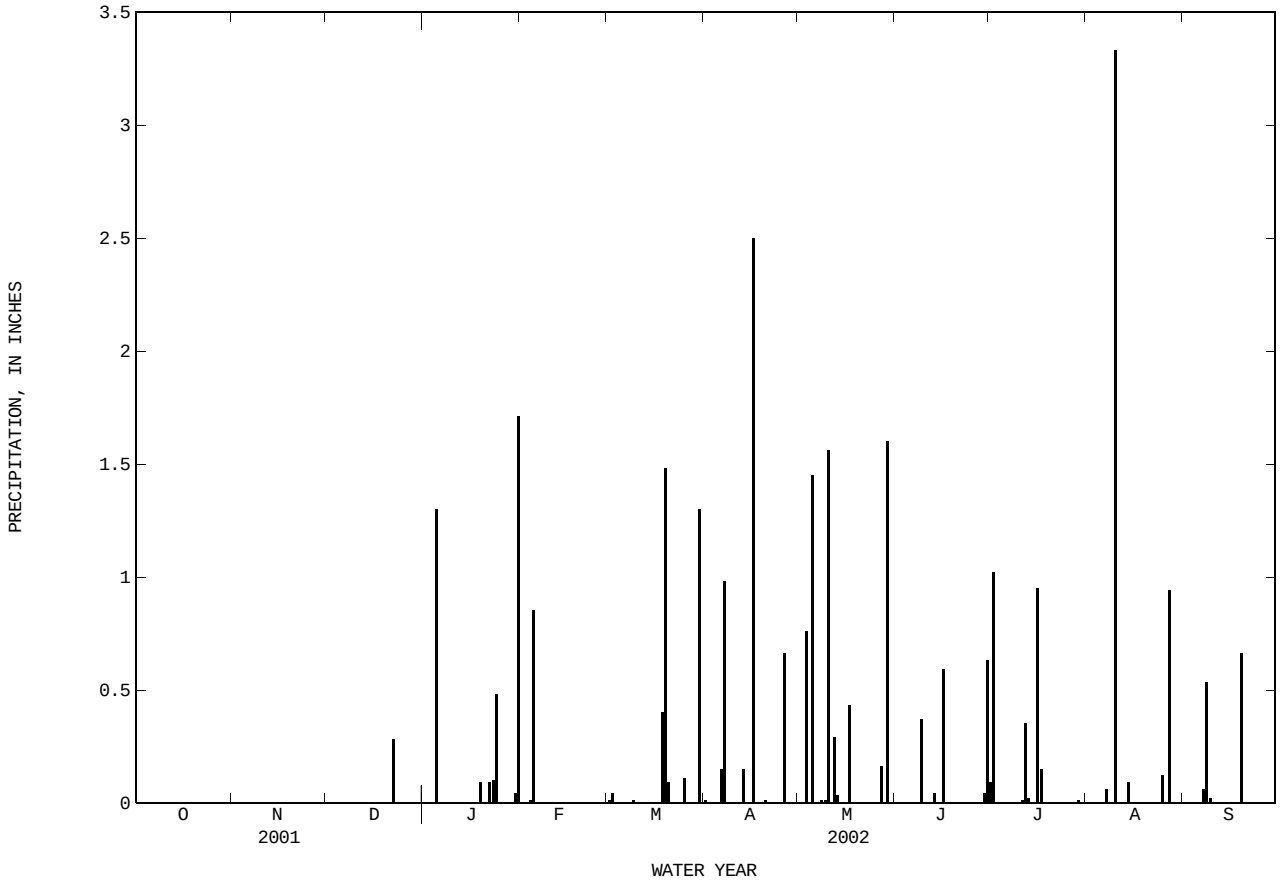
EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 3.339 inches, Aug. 10.

PRECIPITATION FROM DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | e0.00 | e0.00 | e0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 |
| 2 | e0.00 | e0.00 | --- | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 1.02 | 0.00 | 0.00 |
| 3 | e0.00 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | --- | e0.00 | --- | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | --- | e0.00 | --- | 1.30 | 0.85 | 0.00 | 0.00 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | --- | e0.00 | --- | 0.00 | --- | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | e0.00 | e0.00 | --- | 0.00 | --- | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 |
| 8 | e0.00 | --- | e0.00 | 0.00 | e0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.53 |
| 9 | e0.00 | --- | e0.00 | 0.00 | e0.00 | 0.01 | 0.00 | 0.01 | 0.37 | 0.00 | 0.00 | 0.02 |
| 10 | --- | --- | --- | 0.00 | e0.00 | 0.00 | 0.00 | 1.56 | 0.00 | 0.00 | 3.33 | 0.00 |
| 11 | --- | --- | --- | 0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 12 | --- | --- | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.00 | 0.35 | 0.00 | 0.00 |
| 13 | --- | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.15 | 0.03 | 0.04 | 0.02 | 0.00 | 0.00 |
| 14 | --- | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15 | e0.00 | --- | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | e0.00 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 2.50 | 0.00 | 0.59 | 0.95 | 0.00 | 0.00 |
| 17 | e0.00 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.00 | 0.15 | 0.00 | 0.00 |
| 18 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | e0.00 | e0.00 | 0.00 | 0.09 | 0.00 | 1.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 |
| 20 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | e0.00 | e0.00 | 0.28 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | e0.00 | --- | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | e0.00 | e0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | e0.00 | e0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 26 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.94 | 0.00 |
| 28 | e0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | e0.00 | --- | 0.00 | 0.00 | --- | 0.00 | 0.00 | 1.60 | 0.04 | 0.01 | 0.00 | 0.00 |
| 30 | e0.00 | --- | 0.00 | 0.04 | --- | 1.30 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 |
| 31 | e0.00 | --- | 0.00 | 1.71 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | --- | --- | --- | 3.81 | --- | 3.44 | 4.46 | 6.30 | 1.67 | 2.60 | 4.54 | 1.27 |

e Estimated

08062000 East Fork Trinity River near Crandall, TX--Continued



## 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 $mi^2$.

### 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.

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 fair except those for period from Mar. 28 to Apr. 29 and estimated daily discharges, which are poor. 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. The cities of Fort Worth, Dallas, and several smaller cities divert considerable water for their municipal use, of which about 60 percent is returned as wastewater effluent that sustains low flows at this site. Flow may also be affected at times by discharge from the flood-detention pools of 38 flood- water retarding structures in the drainage basin above this station. These structures control runoff from 76.7 $mi^2$ 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 812 | 774 | 1180 | 1340 | e15700 | e1130 | 25600 | 6590 | e2980 | 2790 | 1120 | 892 |
| 2 | 780 | 778 | 972 | 1280 | e19400 | 1140 | e18500 | 5860 | e2420 | 4520 | 883 | 862 |
| 3 | 764 | 803 | 903 | 1280 | e17000 | 1350 | 21700 | 6160 | e2100 | 4730 | 840 | 850 |
| 4 | 776 | 777 | 905 | 1260 | e8840 | e1370 | 17200 | 7140 | e1850 | 4810 | 776 | 876 |
| 5 | 802 | 769 | 878 | 1250 | e6460 | 1240 | 16200 | 9110 | e1750 | 3860 | 727 | 832 |
| 6 | 2090 | 804 | 872 | 1340 | e11000 | 1200 | e16000 | 17300 | e1690 | 1940 | 741 | 831 |
| 7 | 1280 | 780 | 1210 | 1350 | e13200 | 1140 | e15900 | 17700 | e1600 | 2200 | 754 | 824 |
| 8 | 917 | 751 | 1240 | 1310 | e9000 | 1100 | 18800 | 13900 | 1470 | 1580 | 728 | 834 |
| 9 | 825 | 746 | 980 | 1270 | e6150 | 1110 | 24400 | 8130 | 1920 | 1180 | 758 | 2160 |
| 10 | 788 | 910 | 849 | 1220 | e4200 | 1300 | 27800 | 7990 | 2160 | 1180 | 1250 | 2560 |
| 11 | 1920 | 892 | 802 | 1210 | e3120 | 1100 | 21500 | 9370 | 2250 | 1000 | 5180 | 1570 |
| 12 | 6780 | 859 | 1030 | 1180 | e2640 | 1040 | 15200 | 10300 | 2350 | 2630 | 4580 | 1100 |
| 13 | 8990 | 1520 | 1280 | 1530 | 1990 | 1060 | 28700 | 11100 | 1860 | 4470 | 1730 | 963 |
| 14 | 9860 | 1450 | 1740 | 1200 | 1860 | 1020 | 24400 | 12200 | 1750 | 2090 | 1200 | 914 |
| 15 | 4190 | 1050 | 1700 | 1100 | e1720 | 1030 | 19700 | 10200 | 2090 | 1650 | 1530 | 858 |
| 16 | 2120 | 985 | 17600 | 1060 | e1620 | 1010 | 15900 | 9200 | 1840 | 1790 | 2170 | 718 |
| 17 | 1640 | 1010 | 28900 | 1040 | e1500 | 972 | 14100 | 8600 | 3360 | 1960 | 1290 | 961 |
| 18 | 1430 | 945 | 20600 | e1050 | e1450 | 995 | 12700 | 10700 | 2300 | 2900 | 1110 | 1010 |
| 19 | 1310 | 1140 | 11700 | e1040 | e1490 | 4640 | 11500 | 10800 | 1350 | 1820 | 942 | 1060 |
| 20 | 1200 | 1020 | 5250 | e1040 | e1680 | 13800 | 10600 | 6870 | 1120 | 1370 | 1030 | 2950 |
| 21 | 1120 | 875 | 4200 | 1040 | e1560 | 20600 | 9500 | 5870 | 1040 | 1060 | 1010 | 2110 |
| 22 | 1030 | 809 | 4350 | 998 | 1370 | 26400 | 8640 | 5970 | 1150 | 946 | 953 | 1260 |
| 23 | 949 | 781 | 3200 | 1080 | 1300 | 25800 | 8320 | 5980 | 1110 | 892 | 889 | 1050 |
| 24 | 931 | 784 | 3150 | 2500 | 1230 | 17000 | 8110 | 4290 | 931 | 847 | 861 | 960 |
| 25 | 901 | 797 | 2480 | 6700 | 1180 | 12100 | 6930 | 2990 | 876 | 818 | 837 | 833 |
| 26 | 819 | 775 | 1920 | 5480 | 1180 | 10600 | 6370 | 2220 | 970 | 798 | 832 | 793 |
| 27 | 801 | 784 | 2410 | 2320 | 1280 | 11900 | 7060 | 2550 | 1170 | 812 | 1270 | 768 |
| 28 | 755 | 878 | 1570 | e1570 | 1170 | e13300 | 7090 | 2310 | 1430 | 785 | 2790 | 764 |
| 29 | 770 | 1560 | 1450 | 1440 | --- | 12900 | 8190 | 3400 | 2370 | 786 | 1670 | 761 |
| 30 | 792 | 1700 | 1420 | 1370 | --- | 14900 | 8320 | e4470 | 1930 | 799 | 1120 | 673 |
| 31 | 783 | --- | 1360 | e5530 | --- | e26600 | --- | e3600 | --- | 1090 | 956 | --- |
| TOTAL | 58925 | 28506 | 128101 | 54378 | 140290 | 230847 | 454930 | 242870 | 53187 | 60103 | 42527 | 33597 |
| MEAN | 1901 | 950.2 | 4132 | 1754 | 5010 | 7447 | 15160 | 7835 | 1773 | 1939 | 1372 | 1120 |
| MAX | 9860 | 1700 | 28900 | 6700 | 19400 | 26600 | 28700 | 17700 | 3360 | 4810 | 5180 | 2950 |
| MIN | 755 | 746 | 802 | 998 | 1170 | 972 | 6370 | 2220 | 876 | 785 | 727 | 673 |
| AC-FT | 116900 | 56540 | 254100 | 107900 | 278300 | 457900 | 902400 | 481700 | 105500 | 119200 | 84350 | 66640 |

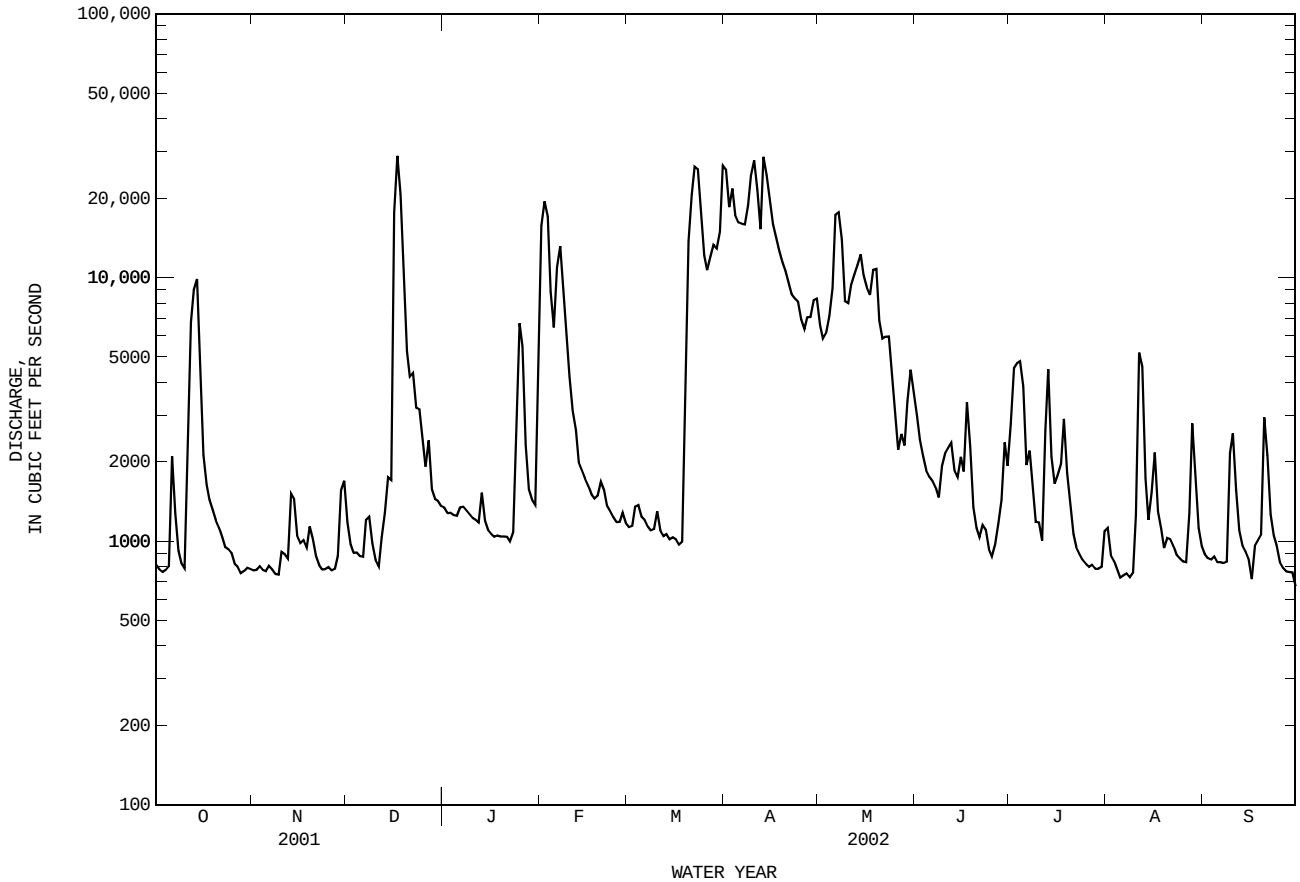
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002h, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 1856 | 2340 | 2841 | 2253 | 3451 | 4085 | 4665 | 6529 | 5132 | 2006 | 1106 | 1191 |
| MAX | 11140 | 16860 | 22340 | 17140 | 14680 | 20120 | 38610 | 40400 | 24600 | 10650 | 6912 | 8322 |
| (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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1925 - 2002h | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 1825931 | | 1528261 | | | |
| ANNUAL MEAN | 5003 | | 4187 | | 3150 | |
| HIGHEST ANNUAL MEAN | | | | | 9702 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 280 | 1956 |
| HIGHEST DAILY MEAN | 35300 | Feb 18 | 28900 | Dec 17 | 133000 | Apr 23 1942 |
| LOWEST DAILY MEAN | 703 | Sep 30 | 673 | Sep 30 | 32 | Oct 4 1924 |
| ANNUAL SEVEN-DAY MINIMUM | 768 | Sep 29 | 761 | Aug 3 | 32 | Oct 14 1924 |
| MAXIMUM PEAK FLOW | | | 40500 | Apr 3 | 150000 | Apr 23 1942 |
| MAXIMUM PEAK STAGE | | | 36.91 | Apr 3 | 41.55 | Apr 22 1942 |
| ANNUAL RUNOFF (AC-FT) | 3622000 | | 3031000 | | 2282000 | |
| 10 PERCENT EXCEEDS | 15000 | | 12800 | | 8830 | |
| 50 PERCENT EXCEEDS | 1900 | | 1370 | | 956 | |
| 90 PERCENT EXCEEDS | 849 | | 800 | | 243 | |

e Estimated
h See PERIOD OF RECORD paragraph.



08062500 Trinity River near Rosser, TX--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--Oct. 2001 to Sept. 2002 (discontinued).

GAGE.--Tipping-bucket rain gage (no wind shields used) with satellite telemetry. Datum of gage is 297.65 ft above NGVD of 1929.

REMARKS.--Records fair.

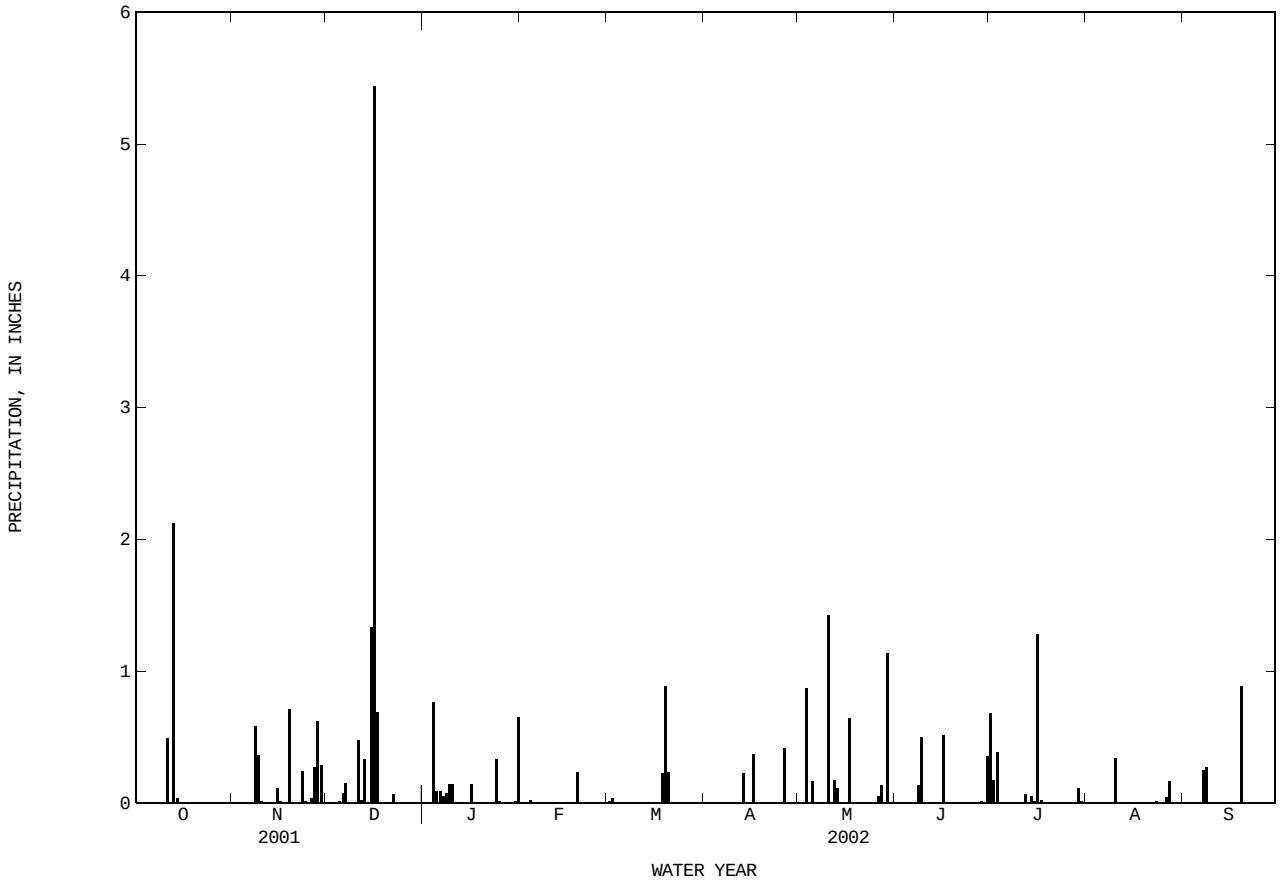
EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 5.43 inches, Dec. 16.

PRECIPITATION FROM DCP, in INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
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 | 0.68 | 0.00 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 0.00 | 0.38 | 0.00 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.76 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 0.00 | 0.00 | 0.01 | 0.09 | --- | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.07 | 0.09 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 0.00 | 0.00 | 0.15 | 0.05 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 |
| 8 | 0.00 | 0.58 | 0.00 | 0.07 | --- | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.27 |
| 9 | 0.00 | 0.36 | 0.00 | 0.14 | --- | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 |
| 10 | 0.00 | 0.01 | 0.00 | 0.14 | --- | 0.00 | 0.00 | 1.42 | 0.00 | 0.00 | 0.34 | 0.00 |
| 11 | 0.49 | --- | 0.47 | --- | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 0.00 | --- | 0.02 | --- | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.06 | 0.00 | 0.00 |
| 13 | 2.12 | --- | 0.33 | --- | 0.00 | 0.00 | 0.22 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 0.03 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |
| 15 | 0.00 | 0.11 | 1.33 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 16 | 0.00 | 0.01 | e5.43 | 0.14 | 0.00 | 0.00 | 0.37 | 0.00 | 0.51 | 1.28 | 0.00 | 0.00 |
| 17 | 0.00 | 0.00 | e0.69 | --- | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.02 | 0.00 | 0.00 |
| 18 | 0.00 | 0.00 | 0.00 | --- | 0.00 | e0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 0.71 | 0.00 | --- | 0.23 | e0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 |
| 20 | 0.00 | 0.00 | 0.00 | --- | 0.00 | e0.23 | 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 0.00 | 0.00 | 0.06 | --- | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 0.00 | 0.24 | 0.00 | --- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 24 | 0.00 | 0.01 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 | 0.05 | 0.00 | 0.00 | 0.04 | 0.00 |
| 27 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.16 | 0.00 |
| 28 | 0.00 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.28 | 0.00 | 0.00 | --- | 0.00 | 0.00 | 1.13 | 0.00 | 0.11 | 0.00 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.01 | --- | 0.00 | 0.00 | 0.00 | 0.35 | 0.01 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | 0.65 | --- | 0.00 | --- | 0.00 | --- | 0.00 | 0.00 | --- |
| TOTAL | 2.64 | --- | 8.56 | --- | --- | --- | 1.00 | 4.68 | 1.50 | 2.77 | 0.55 | 1.40 |

e Estimated

08062500 Trinity River near Rosser, TX--Continued



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 good. 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 units, July 12, 1982; minimum, 6.5 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 and Jan. 11, 25, 2001; minimum, 0.0 mg/L, on several days during 1979-81.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 775 microsiemens/cm, Mar. 11; minimum, 254 microsiemens/cm, Apr. 18.
pH: Maximum, 8.6 units, on several days; minimum, 6.5 units, Apr. 12.
WATER TEMPERATURE: Maximum, 32.2°C, July 11, Aug. 4; minimum, 6.9°C, Jan. 5.
DISSOLVED OXYGEN: Maximum, 13.4 mg/L, Mar. 5; minimum, 2.8 mg/L, Oct. 12, 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 01... | 1035 | 799 | 716 | 7.8 | 19.5 | 7.7 | 84 | <2.0 | 160 | 61 | 56.2 | 5.70 | 69.0 |
| MAR | | | | | | | | | | | | | |
| 28... | 0950 | 13500 | 394 | 7.9 | 15.0 | 9.9 | 99 | 2.3 | 140 | 32 | 50.0 | 4.06 | 23.8 |
| MAY | | | | | | | | | | | | | |
| 01... | 0950 | 6660 | 418 | 8.0 | 22.5 | 7.7 | 92 | <2.0 | 130 | 27 | 46.7 | 4.33 | 27.3 |
| JUN | | | | | | | | | | | | | |
| 27... | 0900 | 1170 | 700 | 7.8 | 29.0 | 6.4 | 86 | 2.2 | 170 | 63 | 57.8 | 6.05 | 67.6 |
| JUL | | | | | | | | | | | | | |
| 17... | 1045 | 2080 | 610 | 7.6 | 27.5 | 6.8 | 88 | 3.0 | 160 | 61 | 55.8 | 5.56 | 53.8 |
| SEP | | | | | | | | | | | | | |
| 03... | 1045 | 908 | 688 | 7.7 | 29.0 | 7.7 | 100 | 2.2 | -- | -- | -- | -- | -- |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | | |
| 01... | 2 | 46 | 9.86 | <1 | 126 | 104 | 83.1 | 71.7 | 1.1 | 8.0 | 424 | 11.6 | .079 |
| MAR | | | | | | | | | | | | | |
| 28... | .9 | 26 | 4.32 | <1 | 133 | 110 | 46.0 | 22.6 | .4 | 4.0 | 226 | 1.19 | .018 |
| MAY | | | | | | | | | | | | | |
| 01... | 1 | 30 | 4.69 | <1 | 131 | 109 | 46.2 | 22.4 | .4 | 4.1 | 230 | 2.04 | .025 |
| JUN | | | | | | | | | | | | | |
| 27... | 2 | 45 | 9.17 | <1 | 129 | 107 | 85.3 | 64.5 | 1.1 | 7.0 | 404 | 8.30 | .094 |
| JUL | | | | | | | | | | | | | |
| 17... | 2 | 40 | 7.85 | <1 | 124 | 102 | 68.8 | 51.9 | .9 | 7.6 | 347 | 6.91 | .037 |
| SEP | | | | | | | | | | | | | |
| 03... | -- | -- | -- | <1 | 121 | 100 | 78.6 | 65.3 | 1.2 | 7.6 | -- | 9.25 | .052 |

08062500 Trinity River near Rosser, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) |
|---|---|---|---|---|---|---|---|
| NOV | | | | | | | |
| 01... | 11.7 | .07 | .87 | .93 | 2.02 | 1.88 | 5.77 |
| MAR | | | | | | | |
| 28... | 1.21 | .05 | .39 | .44 | .12 | .12 | .371 |
| MAY | | | | | | | |
| 01... | 2.06 | E.03 | -- | .54 | .26 | .23 | .711 |
| JUN | | | | | | | |
| 27... | 8.40 | .06 | .70 | .76 | 1.59 | 1.59 | 4.88 |
| JUL | | | | | | | |
| 17... | 6.94 | E.04 | -- | .75 | .94 | .97 | 2.98 |
| SEP | | | | | | | |
| 03... | 9.30 | <.04 | -- | .79 | 1.72 | 1.62 | 4.97 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 698 | 640 | 666 | 724 | 711 | 720 | 681 | 620 | 637 | --- | --- | --- |
| 2 | 716 | 698 | 711 | 719 | 711 | 715 | 634 | 626 | 629 | --- | --- | --- |
| 3 | 718 | 712 | 716 | 732 | 708 | 721 | 647 | 628 | 640 | 620 | 600 | 608 |
| 4 | 716 | 708 | 712 | 716 | 707 | 711 | 674 | 647 | 665 | 628 | 620 | 624 |
| 5 | 718 | 709 | 712 | 722 | 710 | 717 | 699 | 674 | 688 | 635 | 622 | 628 |
| 6 | 731 | 541 | 662 | 731 | 718 | 726 | 708 | 691 | 699 | 655 | 634 | 641 |
| 7 | 613 | 428 | 500 | 731 | 718 | 724 | 726 | 701 | 710 | 664 | 653 | 657 |
| 8 | 564 | 445 | 532 | 725 | 701 | 718 | 725 | 701 | 714 | 660 | 646 | 653 |
| 9 | 618 | 564 | 589 | 706 | 703 | 704 | 711 | 684 | 701 | 662 | 648 | 656 |
| 10 | 671 | 618 | 649 | 722 | 703 | 714 | 684 | 653 | 671 | 669 | 658 | 664 |
| 11 | 685 | 474 | 662 | --- | --- | --- | 678 | 655 | 672 | 676 | 667 | 672 |
| 12 | 502 | 360 | 411 | --- | --- | --- | 708 | 676 | 692 | 675 | 666 | 671 |
| 13 | 412 | 281 | 383 | --- | --- | --- | 713 | 697 | 708 | 699 | 668 | 682 |
| 14 | 396 | 276 | 303 | 653 | 619 | 635 | 700 | 684 | 694 | --- | --- | --- |
| 15 | 377 | 278 | 352 | 689 | 631 | 664 | 687 | 585 | 622 | --- | --- | --- |
| 16 | 428 | 377 | 401 | 678 | 602 | 636 | --- | --- | --- | 728 | 623 | 683 |
| 17 | 483 | 428 | 459 | 617 | 602 | 611 | --- | --- | --- | 730 | 725 | 728 |
| 18 | 530 | 483 | 498 | 644 | 617 | 630 | --- | --- | --- | --- | --- | --- |
| 19 | 561 | 530 | 552 | 676 | 644 | 662 | --- | --- | --- | --- | --- | --- |
| 20 | 588 | 538 | 562 | 704 | 676 | 692 | --- | --- | --- | --- | --- | --- |
| 21 | 604 | 588 | 599 | 723 | 704 | 712 | --- | --- | --- | --- | --- | --- |
| 22 | 626 | 589 | 609 | 723 | 668 | 694 | --- | --- | --- | --- | --- | --- |
| 23 | 643 | 623 | 631 | 668 | 653 | 658 | --- | --- | --- | --- | --- | --- |
| 24 | 662 | 643 | 655 | 698 | 664 | 678 | --- | --- | --- | --- | --- | --- |
| 25 | 669 | 662 | 667 | 700 | 693 | 697 | --- | --- | --- | --- | --- | --- |
| 26 | 677 | 666 | 670 | 708 | 698 | 704 | --- | --- | --- | --- | --- | --- |
| 27 | 691 | 677 | 684 | 719 | 699 | 710 | --- | --- | --- | --- | --- | --- |
| 28 | 692 | 670 | 680 | 701 | 690 | 697 | --- | --- | --- | --- | --- | --- |
| 29 | 703 | 692 | 699 | 704 | 674 | 692 | --- | --- | --- | --- | --- | --- |
| 30 | 718 | 703 | 713 | 681 | 642 | 661 | --- | --- | --- | --- | --- | --- |
| 31 | 729 | 712 | 721 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | 731 | 276 | 592 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

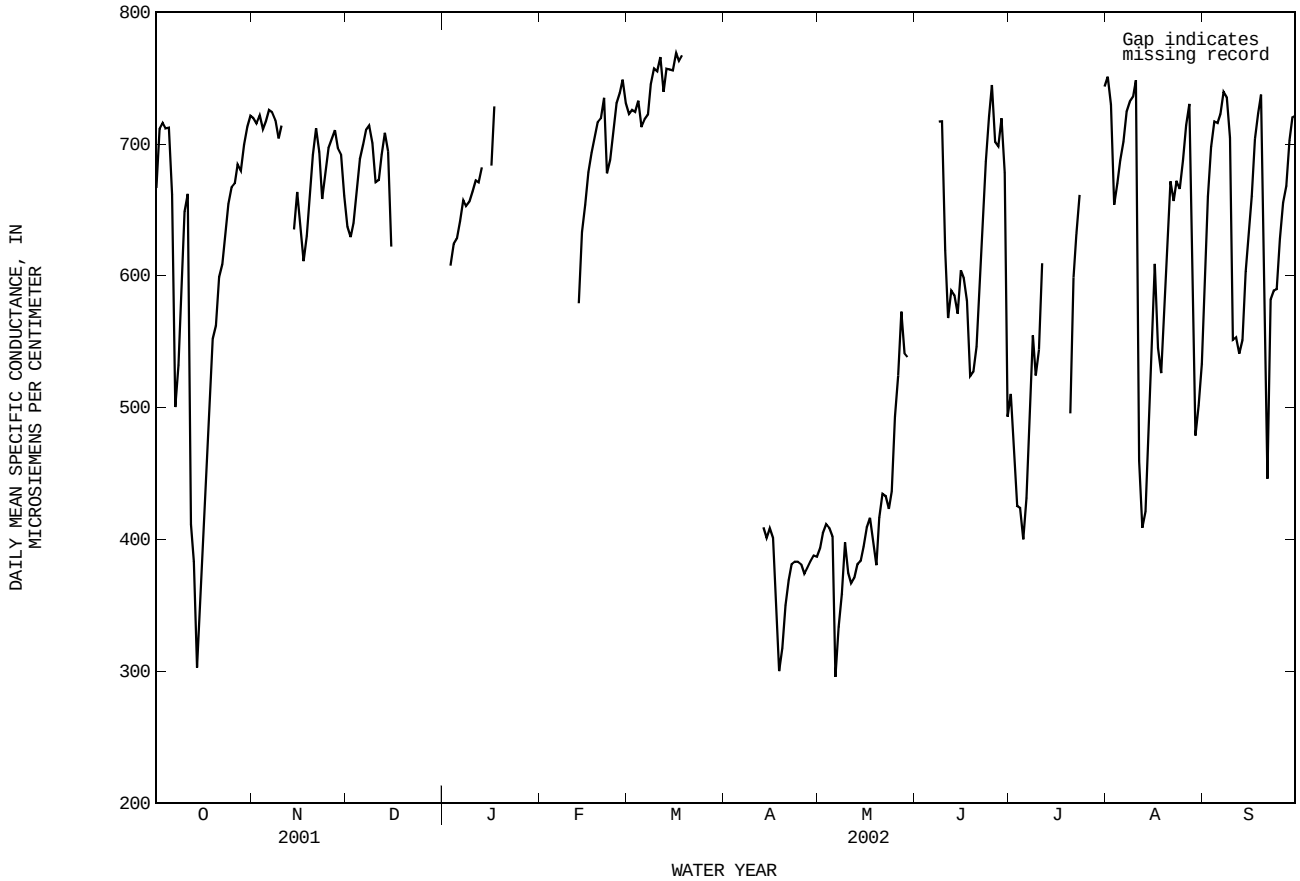
08062500 Trinity River near Rosser, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 726 | 719 | 723 | --- | --- | --- | 400 | 388 | 393 |
| 2 | --- | --- | --- | 730 | 720 | 726 | --- | --- | --- | 416 | 396 | 405 |
| 3 | --- | --- | --- | 734 | 716 | 724 | --- | --- | --- | 417 | 407 | 412 |
| 4 | --- | --- | --- | 743 | 716 | 733 | --- | --- | --- | 418 | 404 | 408 |
| 5 | --- | --- | --- | 722 | 705 | 713 | --- | --- | --- | 448 | 270 | 402 |
| 6 | --- | --- | --- | 726 | 711 | 719 | --- | --- | --- | 321 | 263 | 296 |
| 7 | --- | --- | --- | 732 | 712 | 722 | --- | --- | --- | 347 | 321 | 333 |
| 8 | --- | --- | --- | 756 | 722 | 745 | --- | --- | --- | 371 | 345 | 358 |
| 9 | --- | --- | --- | 760 | 753 | 757 | --- | --- | --- | 430 | 371 | 398 |
| 10 | --- | --- | --- | 759 | 749 | 755 | --- | --- | --- | 439 | 288 | 374 |
| 11 | --- | --- | --- | 775 | 752 | 766 | --- | --- | --- | 402 | 333 | 366 |
| 12 | --- | --- | --- | 752 | 732 | 739 | --- | --- | --- | 379 | 333 | 371 |
| 13 | 591 | 567 | 579 | 760 | 745 | 757 | 415 | 401 | 409 | 401 | 369 | 381 |
| 14 | 656 | 591 | 633 | 762 | 750 | 756 | 403 | 399 | 401 | 388 | 374 | 384 |
| 15 | 664 | 648 | 654 | 770 | 749 | 756 | 412 | 401 | 408 | 409 | 382 | 395 |
| 16 | 685 | 664 | 679 | 771 | 766 | 769 | 406 | 397 | 401 | 410 | 408 | 409 |
| 17 | 701 | 684 | 693 | 769 | 758 | 763 | 402 | 272 | 353 | 428 | 409 | 416 |
| 18 | 719 | 693 | 704 | 771 | 763 | 767 | 359 | 254 | 300 | 428 | 378 | 397 |
| 19 | 728 | 709 | 716 | --- | --- | --- | 346 | 299 | 318 | 398 | 354 | 380 |
| 20 | 728 | 706 | 719 | --- | --- | --- | 360 | 340 | 350 | 430 | 398 | 417 |
| 21 | 747 | 725 | 735 | --- | --- | --- | 385 | 356 | 369 | 437 | 430 | 434 |
| 22 | 731 | 661 | 678 | --- | --- | --- | 385 | 378 | 381 | 438 | 422 | 433 |
| 23 | 703 | 673 | 688 | --- | --- | --- | 387 | 380 | 383 | 425 | 421 | 423 |
| 24 | 721 | 703 | 710 | --- | --- | --- | 388 | 380 | 383 | 468 | 420 | 436 |
| 25 | 735 | 721 | 731 | --- | --- | --- | 383 | 374 | 381 | 507 | 468 | 493 |
| 26 | 745 | 735 | 738 | --- | --- | --- | 382 | 367 | 374 | 541 | 507 | 524 |
| 27 | 754 | 745 | 749 | --- | --- | --- | 385 | 371 | 378 | 598 | 541 | 573 |
| 28 | 746 | 717 | 731 | --- | --- | --- | 390 | 376 | 383 | 591 | 522 | 541 |
| 29 | --- | --- | --- | --- | --- | --- | 392 | 384 | 388 | 578 | 449 | 538 |
| 30 | --- | --- | --- | --- | --- | --- | 392 | 381 | 387 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 566 | 453 | 510 | 763 | 741 | 751 | 630 | 571 | 604 |
| 2 | --- | --- | --- | 527 | 436 | 470 | 759 | 668 | 730 | 685 | 630 | 660 |
| 3 | --- | --- | --- | 473 | 405 | 425 | 668 | 645 | 654 | 708 | 685 | 698 |
| 4 | --- | --- | --- | 457 | 391 | 424 | 684 | 650 | 670 | 723 | 708 | 717 |
| 5 | --- | --- | --- | 450 | 382 | 400 | 703 | 672 | 687 | 720 | 708 | 716 |
| 6 | --- | --- | --- | 456 | 410 | 431 | 711 | 696 | 702 | 738 | 713 | 722 |
| 7 | --- | --- | --- | 549 | 456 | 498 | 730 | 711 | 724 | 742 | 736 | 740 |
| 8 | 721 | 712 | 717 | 569 | 542 | 555 | 737 | 726 | 732 | 744 | 720 | 735 |
| 9 | 734 | 689 | 717 | 558 | 512 | 524 | 740 | 726 | 736 | 736 | 610 | 705 |
| 10 | 689 | 580 | 619 | 585 | 521 | 544 | 760 | 735 | 748 | 668 | 498 | 551 |
| 11 | 580 | 553 | 568 | 622 | 585 | 609 | 742 | 311 | 460 | 575 | 520 | 553 |
| 12 | 617 | 553 | 589 | --- | --- | --- | 529 | 370 | 409 | 567 | 526 | 541 |
| 13 | 619 | 558 | 585 | --- | --- | --- | 446 | 391 | 421 | 575 | 535 | 551 |
| 14 | 593 | 556 | 571 | --- | --- | --- | 518 | 446 | 480 | 617 | 575 | 603 |
| 15 | 618 | 589 | 604 | --- | --- | --- | 616 | 518 | 549 | 652 | 616 | 631 |
| 16 | 616 | 594 | 598 | --- | --- | --- | 646 | 564 | 609 | 681 | 652 | 660 |
| 17 | 641 | 530 | 581 | --- | --- | --- | 577 | 515 | 545 | 714 | 681 | 704 |
| 18 | 544 | 489 | 524 | --- | --- | --- | 550 | 505 | 526 | 730 | 712 | 723 |
| 19 | 541 | 524 | 527 | --- | --- | --- | 605 | 524 | 568 | 744 | 730 | 737 |
| 20 | 569 | 527 | 546 | 571 | 411 | 495 | 638 | 605 | 624 | 747 | 434 | 592 |
| 21 | 608 | 569 | 590 | 618 | 571 | 598 | 693 | 637 | 671 | 530 | 410 | 446 |
| 22 | 664 | 608 | 634 | 646 | 618 | 632 | 669 | 651 | 657 | 611 | 530 | 582 |
| 23 | 704 | 664 | 687 | 668 | 646 | 661 | 675 | 667 | 672 | 617 | 571 | 589 |
| 24 | 741 | 704 | 721 | --- | --- | --- | 678 | 661 | 666 | 600 | 574 | 590 |
| 25 | 748 | 741 | 745 | --- | --- | --- | 702 | 678 | 687 | 646 | 600 | 628 |
| 26 | 744 | 684 | 702 | --- | --- | --- | 722 | 702 | 714 | 670 | 644 | 656 |
| 27 | 710 | 694 | 698 | --- | --- | --- | 754 | 722 | 730 | 689 | 661 | 668 |
| 28 | 738 | 708 | 719 | --- | --- | --- | 754 | 418 | 644 | 710 | 689 | 703 |
| 29 | 716 | 581 | 678 | --- | --- | --- | 512 | 418 | 479 | 726 | 709 | 720 |
| 30 | 581 | 433 | 493 | --- | --- | --- | 515 | 490 | 501 | 728 | 717 | 721 |
| 31 | --- | --- | --- | 751 | 738 | 743 | 571 | 497 | 533 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 763 | 311 | 622 | 747 | 410 | 648 |

08062500 Trinity River near Rosser, TX--Continued



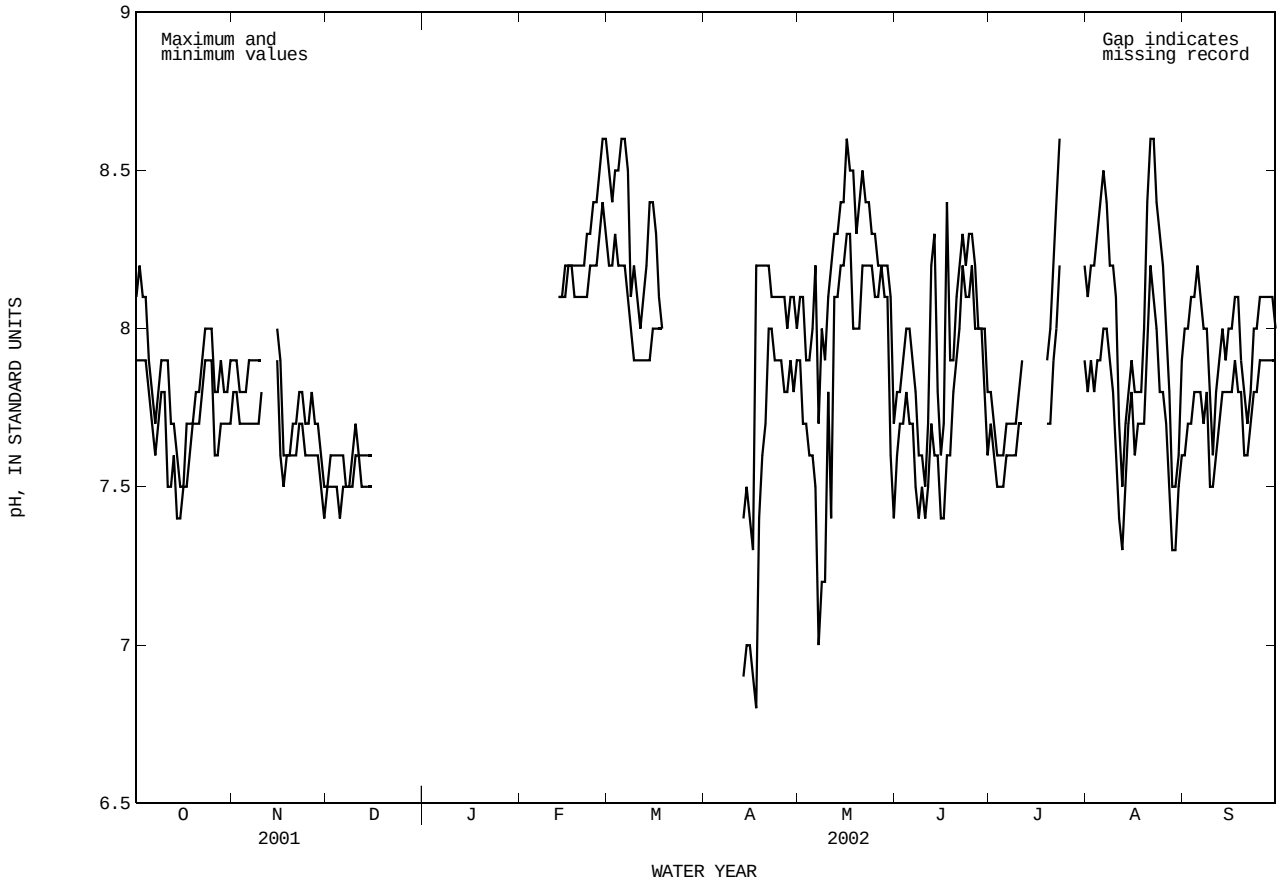

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

08062500 Trinity River near Rosser, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | --- | --- | 8.1 | 7.9 | 7.8 | 7.6 | 7.8 | 7.7 | 8.1 | 7.8 | 8.0 | 7.6 |
| 2 | --- | --- | 8.1 | 7.7 | 7.8 | 7.7 | 7.7 | 7.6 | 8.2 | 7.9 | 8.0 | 7.7 |
| 3 | --- | --- | 7.9 | 7.7 | 7.9 | 7.7 | 7.6 | 7.5 | 8.2 | 7.8 | 8.1 | 7.7 |
| 4 | --- | --- | 7.9 | 7.6 | 8.0 | 7.8 | 7.6 | 7.5 | 8.3 | 7.9 | 8.1 | 7.8 |
| 5 | --- | --- | 8.0 | 7.6 | 8.0 | 7.7 | 7.6 | 7.5 | 8.4 | 7.9 | 8.2 | 7.8 |
| 6 | --- | --- | 8.2 | 7.5 | 7.9 | 7.7 | 7.7 | 7.6 | 8.5 | 8.0 | 8.1 | 7.8 |
| 7 | --- | --- | 7.7 | 7.0 | 7.8 | 7.5 | 7.7 | 7.6 | 8.4 | 8.0 | 8.0 | 7.7 |
| 8 | --- | --- | 8.0 | 7.2 | 7.6 | 7.4 | 7.7 | 7.6 | 8.2 | 7.9 | 8.0 | 7.8 |
| 9 | --- | --- | 7.9 | 7.2 | 7.6 | 7.5 | 7.7 | 7.6 | 8.2 | 7.8 | 7.8 | 7.5 |
| 10 | --- | --- | 8.1 | 7.8 | 7.5 | 7.4 | 7.8 | 7.7 | 8.1 | 7.6 | 7.6 | 7.5 |
| 11 | --- | --- | 8.2 | 7.4 | 7.7 | 7.5 | 7.9 | 7.7 | 7.7 | 7.4 | 7.8 | 7.6 |
| 12 | --- | --- | 8.3 | 8.1 | 8.2 | 7.7 | --- | --- | 7.5 | 7.3 | 7.9 | 7.7 |
| 13 | 7.4 | 6.9 | 8.3 | 8.1 | 8.3 | 7.6 | --- | --- | 7.7 | 7.5 | 8.0 | 7.8 |
| 14 | 7.5 | 7.0 | 8.4 | 8.2 | 7.8 | 7.6 | --- | --- | 7.8 | 7.7 | 7.9 | 7.8 |
| 15 | 7.4 | 7.0 | 8.4 | 8.2 | 7.6 | 7.4 | --- | --- | 7.9 | 7.8 | 8.0 | 7.8 |
| 16 | 7.3 | 6.9 | 8.6 | 8.3 | 7.7 | 7.4 | --- | --- | 7.8 | 7.6 | 8.0 | 7.8 |
| 17 | 8.2 | 6.8 | 8.5 | 8.3 | 8.4 | 7.6 | --- | --- | 7.8 | 7.7 | 8.1 | 7.9 |
| 18 | 8.2 | 7.4 | 8.5 | 8.0 | 7.9 | 7.6 | --- | --- | 7.8 | 7.7 | 8.1 | 7.8 |
| 19 | 8.2 | 7.6 | 8.3 | 8.0 | 7.9 | 7.8 | 7.9 | 7.7 | 8.0 | 7.7 | 7.9 | 7.8 |
| 20 | 8.2 | 7.7 | 8.4 | 8.0 | 8.1 | 7.9 | 8.0 | 7.7 | 8.4 | 7.9 | 7.8 | 7.6 |
| 21 | 8.2 | 8.0 | 8.5 | 8.2 | 8.2 | 8.0 | 8.2 | 7.9 | 8.6 | 8.2 | 7.7 | 7.6 |
| 22 | 8.1 | 8.0 | 8.4 | 8.2 | 8.3 | 8.2 | 8.4 | 8.0 | 8.6 | 8.1 | 7.8 | 7.7 |
| 23 | 8.1 | 7.9 | 8.4 | 8.2 | 8.2 | 8.1 | 8.6 | 8.2 | 8.4 | 8.0 | 8.0 | 7.8 |
| 24 | 8.1 | 7.9 | 8.3 | 8.2 | 8.3 | 8.1 | --- | --- | 8.3 | 7.8 | 8.0 | 7.8 |
| 25 | 8.1 | 7.9 | 8.3 | 8.1 | 8.3 | 8.2 | --- | --- | 8.2 | 7.8 | 8.1 | 7.9 |
| 26 | 8.1 | 7.8 | 8.2 | 8.1 | 8.2 | 8.0 | --- | --- | 8.0 | 7.7 | 8.1 | 7.9 |
| 27 | 8.0 | 7.8 | 8.2 | 8.2 | 8.0 | 8.0 | --- | --- | 7.8 | 7.5 | 8.1 | 7.9 |
| 28 | 8.1 | 7.9 | 8.2 | 8.1 | 8.0 | 8.0 | --- | --- | 7.5 | 7.3 | 8.1 | 7.9 |
| 29 | 8.1 | 7.8 | 8.2 | 8.1 | 8.0 | 7.8 | --- | --- | 7.5 | 7.3 | 8.1 | 7.9 |
| 30 | 8.0 | 7.9 | 8.1 | 7.6 | 7.8 | 7.6 | --- | --- | 7.6 | 7.5 | 8.0 | 7.9 |
| 31 | --- | --- | 7.7 | 7.4 | --- | --- | 8.2 | 7.9 | 7.9 | 7.6 | --- | --- |
| MONTH | --- | --- | 8.6 | 7.0 | 8.4 | 7.4 | --- | --- | 8.6 | 7.3 | 8.2 | 7.5 |



08062500 Trinity River near Rosser, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

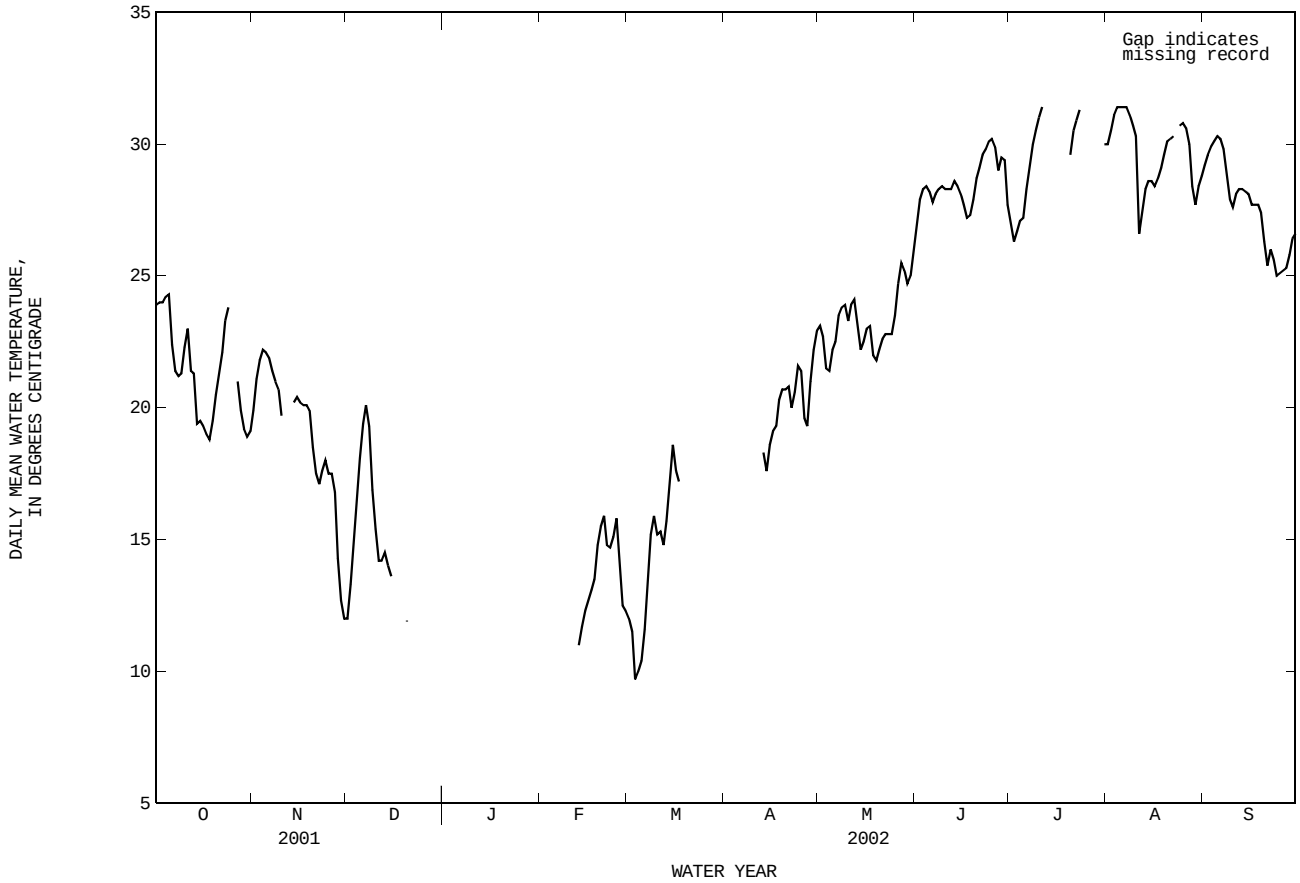
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 24.6 | 23.2 | 23.9 | 20.6 | 19.2 | 19.9 | 12.5 | 11.6 | 12.0 | --- | --- | --- |
| 2 | 24.7 | 23.2 | 24.0 | 21.5 | 20.6 | 21.1 | 13.9 | 12.5 | 13.3 | --- | --- | --- |
| 3 | 24.5 | 23.3 | 24.0 | 22.3 | 21.2 | 21.8 | 15.3 | 13.9 | 14.8 | --- | --- | --- |
| 4 | 24.9 | 23.6 | 24.2 | 22.6 | 21.8 | 22.2 | 17.4 | 15.3 | 16.4 | --- | --- | --- |
| 5 | 24.7 | 23.4 | 24.3 | 22.5 | 21.7 | 22.1 | 18.7 | 17.4 | 18.1 | --- | --- | --- |
| 6 | 23.4 | 21.9 | 22.4 | 22.4 | 21.5 | 21.9 | 19.8 | 18.7 | 19.4 | --- | --- | --- |
| 7 | 22.2 | 21.1 | 21.4 | 21.8 | 21.0 | 21.4 | 20.3 | 19.8 | 20.1 | --- | --- | --- |
| 8 | 21.5 | 20.9 | 21.2 | 21.5 | 20.6 | 21.0 | 20.2 | 18.0 | 19.3 | --- | --- | --- |
| 9 | 21.7 | 20.9 | 21.3 | 21.1 | 20.1 | 20.7 | 18.0 | 16.1 | 16.9 | --- | --- | --- |
| 10 | 23.0 | 21.6 | 22.3 | 20.1 | 19.5 | 19.7 | 16.1 | 14.7 | 15.4 | --- | --- | --- |
| 11 | 23.4 | 21.8 | 23.0 | --- | --- | --- | 14.7 | 13.8 | 14.2 | --- | --- | --- |
| 12 | 21.9 | 20.9 | 21.4 | --- | --- | --- | 14.8 | 13.7 | 14.2 | --- | --- | --- |
| 13 | 21.7 | 19.3 | 21.3 | --- | --- | --- | 14.7 | 14.0 | 14.5 | --- | --- | --- |
| 14 | 21.4 | 18.9 | 19.4 | 20.5 | 19.8 | 20.2 | 14.3 | 13.7 | 14.0 | --- | --- | --- |
| 15 | 20.0 | 18.9 | 19.5 | 20.6 | 20.2 | 20.4 | 14.2 | 13.3 | 13.6 | --- | --- | --- |
| 16 | 19.9 | 18.8 | 19.3 | 20.4 | 19.9 | 20.2 | --- | --- | --- | --- | --- | --- |
| 17 | 19.3 | 18.6 | 19.0 | 20.4 | 19.8 | 20.1 | --- | --- | --- | --- | --- | --- |
| 18 | 19.2 | 18.6 | 18.8 | 20.3 | 20.0 | 20.1 | --- | --- | --- | --- | --- | --- |
| 19 | 20.2 | 19.2 | 19.5 | 20.3 | 19.1 | 19.9 | --- | --- | --- | --- | --- | --- |
| 20 | 21.0 | 20.1 | 20.5 | 19.1 | 17.9 | 18.5 | 12.5 | 11.6 | 11.9 | --- | --- | --- |
| 21 | 21.7 | 20.9 | 21.3 | 17.9 | 17.1 | 17.5 | --- | --- | --- | --- | --- | --- |
| 22 | 22.7 | 21.5 | 22.1 | 17.4 | 16.7 | 17.1 | --- | --- | --- | --- | --- | --- |
| 23 | 23.9 | 22.5 | 23.3 | 18.2 | 17.1 | 17.6 | --- | --- | --- | --- | --- | --- |
| 24 | 24.2 | 23.5 | 23.8 | 18.3 | 17.7 | 18.0 | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | 17.8 | 17.0 | 17.5 | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | 17.9 | 17.2 | 17.5 | --- | --- | --- | --- | --- | --- |
| 27 | 21.5 | 20.5 | 21.0 | 17.8 | 15.6 | 16.8 | --- | --- | --- | --- | --- | --- |
| 28 | 20.5 | 19.5 | 19.9 | 15.6 | 13.2 | 14.3 | --- | --- | --- | --- | --- | --- |
| 29 | 19.6 | 18.8 | 19.2 | 13.2 | 12.5 | 12.7 | --- | --- | --- | --- | --- | --- |
| 30 | 19.4 | 18.3 | 18.9 | 12.5 | 11.6 | 12.0 | --- | --- | --- | --- | --- | --- |
| 31 | 19.5 | 18.6 | 19.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 12.3 | 11.8 | 12.0 | --- | --- | --- | 23.6 | 22.5 | 23.1 |
| 2 | --- | --- | --- | 12.1 | 10.4 | 11.5 | --- | --- | --- | 23.3 | 22.2 | 22.7 |
| 3 | --- | --- | --- | 10.4 | 9.4 | 9.7 | --- | --- | --- | 22.2 | 20.9 | 21.5 |
| 4 | --- | --- | --- | 10.2 | 9.8 | 10.0 | --- | --- | --- | 22.3 | 20.7 | 21.4 |
| 5 | --- | --- | --- | 10.8 | 10.0 | 10.4 | --- | --- | --- | 22.7 | 21.6 | 22.2 |
| 6 | --- | --- | --- | 12.6 | 10.7 | 11.6 | --- | --- | --- | 23.3 | 21.5 | 22.5 |
| 7 | --- | --- | --- | 14.4 | 12.6 | 13.7 | --- | --- | --- | 23.8 | 23.2 | 23.5 |
| 8 | --- | --- | --- | 15.8 | 14.3 | 15.2 | --- | --- | --- | 24.0 | 23.6 | 23.8 |
| 9 | --- | --- | --- | 16.3 | 15.5 | 15.9 | --- | --- | --- | 24.4 | 23.5 | 23.9 |
| 10 | --- | --- | --- | 15.7 | 14.7 | 15.2 | --- | --- | --- | 24.4 | 22.6 | 23.3 |
| 11 | --- | --- | --- | 15.6 | 14.6 | 15.3 | --- | --- | --- | 24.2 | 23.4 | 23.9 |
| 12 | --- | --- | --- | 15.4 | 14.3 | 14.8 | --- | --- | --- | 24.5 | 23.7 | 24.1 |
| 13 | 11.3 | 10.6 | 11.0 | 16.5 | 15.0 | 15.7 | 18.7 | 17.6 | 18.3 | 24.0 | 22.3 | 23.1 |
| 14 | 12.1 | 11.3 | 11.7 | 18.0 | 16.1 | 17.0 | 18.0 | 17.3 | 17.6 | 22.6 | 21.8 | 22.2 |
| 15 | 12.6 | 12.1 | 12.3 | 19.3 | 18.0 | 18.6 | 19.4 | 18.0 | 18.6 | 23.0 | 22.0 | 22.5 |
| 16 | 13.1 | 12.4 | 12.7 | 18.3 | 17.0 | 17.6 | 19.5 | 18.8 | 19.1 | 23.6 | 22.5 | 23.0 |
| 17 | 13.4 | 13.0 | 13.1 | 17.5 | 17.0 | 17.2 | 20.2 | 18.7 | 19.3 | 23.5 | 22.7 | 23.1 |
| 18 | 13.9 | 13.3 | 13.5 | --- | --- | --- | 20.8 | 20.1 | 20.3 | 22.7 | 21.7 | 22.0 |
| 19 | 15.4 | 13.9 | 14.8 | --- | --- | --- | 20.8 | 20.6 | 20.7 | 22.3 | 21.3 | 21.8 |
| 20 | 16.0 | 15.2 | 15.5 | --- | --- | --- | 21.0 | 20.4 | 20.7 | 23.0 | 21.5 | 22.2 |
| 21 | 16.3 | 15.4 | 15.9 | --- | --- | --- | 21.1 | 20.3 | 20.8 | 23.3 | 22.0 | 22.6 |
| 22 | 15.4 | 14.5 | 14.8 | --- | --- | --- | 20.4 | 19.7 | 20.0 | 23.4 | 22.2 | 22.8 |
| 23 | 15.1 | 14.4 | 14.7 | --- | --- | --- | 21.2 | 20.2 | 20.6 | 23.4 | 22.3 | 22.8 |
| 24 | 15.5 | 14.6 | 15.1 | --- | --- | --- | 22.2 | 21.2 | 21.6 | 23.3 | 22.4 | 22.8 |
| 25 | 16.5 | 15.3 | 15.8 | --- | --- | --- | 22.2 | 20.3 | 21.4 | 24.3 | 22.9 | 23.5 |
| 26 | 15.5 | 12.7 | 14.1 | --- | --- | --- | 20.3 | 18.8 | 19.6 | 25.4 | 24.0 | 24.7 |
| 27 | 12.8 | 12.1 | 12.5 | --- | --- | --- | 20.1 | 18.8 | 19.3 | 25.9 | 25.2 | 25.5 |
| 28 | 12.7 | 12.0 | 12.3 | --- | --- | --- | 21.8 | 20.1 | 21.0 | 25.5 | 24.9 | 25.2 |
| 29 | --- | --- | --- | --- | --- | --- | 22.7 | 21.8 | 22.2 | 25.4 | 23.8 | 24.7 |
| 30 | --- | --- | --- | --- | --- | --- | 23.4 | 22.5 | 22.9 | 25.9 | 24.1 | 25.0 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26.6 | 25.3 | 26.0 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26.6 | 20.7 | 23.3 |

08062500 Trinity River near Rosser, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 27.7 | 26.5 | 27.0 | 27.4 | 26.6 | 27.0 | 30.5 | 29.6 | 30.0 | 30.0 | 28.5 | 29.2 |
| 2 | 28.3 | 27.6 | 27.9 | 26.7 | 25.9 | 26.3 | 31.3 | 29.8 | 30.5 | 30.5 | 28.7 | 29.6 |
| 3 | 28.6 | 28.0 | 28.3 | 27.4 | 26.2 | 26.7 | 32.0 | 30.3 | 31.1 | 30.5 | 29.1 | 29.9 |
| 4 | 28.7 | 28.1 | 28.4 | 27.6 | 26.5 | 27.1 | 32.2 | 30.6 | 31.4 | 30.7 | 29.5 | 30.1 |
| 5 | 28.5 | 27.7 | 28.2 | 27.8 | 26.6 | 27.2 | 32.0 | 30.7 | 31.4 | 30.9 | 29.7 | 30.3 |
| 6 | 28.3 | 27.3 | 27.8 | 29.0 | 27.8 | 28.3 | 31.9 | 30.6 | 31.4 | 30.6 | 29.7 | 30.2 |
| 7 | 28.5 | 27.7 | 28.1 | 30.0 | 28.6 | 29.2 | 31.9 | 30.7 | 31.4 | 30.2 | 29.4 | 29.8 |
| 8 | 28.5 | 28.1 | 28.3 | 30.5 | 29.6 | 30.0 | 31.5 | 30.6 | 31.1 | 29.5 | 28.1 | 28.8 |
| 9 | 28.7 | 28.2 | 28.4 | 31.0 | 30.0 | 30.5 | 31.3 | 29.9 | 30.7 | 28.1 | 27.6 | 27.9 |
| 10 | 28.7 | 27.8 | 28.3 | 31.5 | 30.4 | 31.0 | 31.0 | 29.3 | 30.3 | 28.1 | 26.8 | 27.6 |
| 11 | 28.7 | 27.9 | 28.3 | 32.2 | 30.8 | 31.4 | 29.3 | 25.1 | 26.6 | 28.3 | 27.7 | 28.1 |
| 12 | 28.7 | 27.9 | 28.3 | --- | --- | --- | 28.1 | 26.4 | 27.5 | 28.8 | 28.0 | 28.3 |
| 13 | 29.0 | 28.3 | 28.6 | --- | --- | --- | 28.7 | 27.9 | 28.3 | 28.6 | 27.9 | 28.3 |
| 14 | 28.8 | 27.9 | 28.4 | --- | --- | --- | 28.7 | 28.4 | 28.6 | 28.7 | 27.8 | 28.2 |
| 15 | 28.6 | 27.6 | 28.1 | --- | --- | --- | 29.0 | 28.2 | 28.6 | 28.4 | 27.7 | 28.1 |
| 16 | 28.1 | 27.5 | 27.7 | --- | --- | --- | 28.8 | 28.0 | 28.4 | 28.1 | 27.4 | 27.7 |
| 17 | 27.8 | 26.5 | 27.2 | --- | --- | --- | 29.0 | 28.4 | 28.7 | 28.1 | 27.1 | 27.7 |
| 18 | 27.8 | 26.7 | 27.3 | --- | --- | --- | 29.7 | 28.6 | 29.1 | 28.2 | 27.4 | 27.7 |
| 19 | 28.4 | 27.4 | 27.9 | --- | --- | --- | 30.3 | 29.0 | 29.6 | 27.6 | 27.0 | 27.4 |
| 20 | 29.4 | 28.2 | 28.7 | 30.2 | 29.1 | 29.6 | 30.8 | 29.5 | 30.1 | 27.1 | 25.7 | 26.3 |
| 21 | 29.9 | 28.5 | 29.1 | 31.1 | 29.9 | 30.5 | 30.8 | 29.7 | 30.2 | 26.0 | 24.7 | 25.4 |
| 22 | 30.3 | 29.1 | 29.6 | 31.6 | 30.3 | 30.9 | 31.0 | 29.7 | 30.3 | 26.2 | 25.8 | 26.0 |
| 23 | 30.3 | 29.3 | 29.8 | 32.1 | 30.6 | 31.3 | --- | --- | --- | 26.1 | 25.3 | 25.6 |
| 24 | 30.7 | 29.4 | 30.1 | --- | --- | --- | 31.4 | 30.1 | 30.7 | 25.5 | 24.6 | 25.0 |
| 25 | 30.9 | 29.8 | 30.2 | --- | --- | --- | 31.5 | 30.2 | 30.8 | 25.8 | 24.4 | 25.1 |
| 26 | 30.7 | 29.4 | 29.9 | --- | --- | --- | 31.3 | 29.8 | 30.6 | 25.9 | 24.6 | 25.2 |
| 27 | 29.4 | 28.7 | 29.0 | --- | --- | --- | 30.8 | 29.0 | 30.0 | 25.9 | 24.5 | 25.3 |
| 28 | 29.9 | 29.1 | 29.5 | --- | --- | --- | 29.0 | 27.5 | 28.4 | 26.5 | 25.1 | 25.8 |
| 29 | 29.8 | 28.8 | 29.4 | --- | --- | --- | 28.3 | 27.2 | 27.7 | 26.9 | 25.7 | 26.4 |
| 30 | 28.8 | 26.9 | 27.7 | --- | --- | --- | 28.9 | 28.1 | 28.4 | 27.0 | 26.1 | 26.6 |
| 31 | --- | --- | --- | 30.7 | 29.4 | 30.0 | 29.5 | 28.2 | 28.8 | --- | --- | --- |
| MONTH | 30.9 | 26.5 | 28.5 | --- | --- | --- | --- | --- | --- | 30.9 | 24.4 | 27.6 |



08062500 Trinity River near Rosser, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 8.1 | 7.5 | 7.8 | 8.7 | 8.1 | 8.4 | 10.6 | 9.9 | 10.3 | --- | --- | --- |
| 2 | 7.8 | 7.3 | 7.6 | 8.3 | 7.8 | 8.0 | 10.3 | 9.8 | 10.0 | --- | --- | --- |
| 3 | 7.3 | 6.3 | 6.8 | 8.1 | 7.5 | 7.8 | 9.9 | 9.1 | 9.4 | --- | --- | --- |
| 4 | 6.3 | 6.0 | 6.1 | 8.0 | 7.4 | 7.7 | 9.2 | 8.4 | 8.8 | --- | --- | --- |
| 5 | 6.2 | 5.9 | 6.0 | 7.9 | 7.3 | 7.6 | 9.5 | 8.2 | 8.8 | --- | --- | --- |
| 6 | 6.1 | 5.8 | 5.9 | 8.2 | 7.4 | 7.7 | 9.3 | 8.5 | 8.9 | --- | --- | --- |
| 7 | 6.5 | 6.1 | 6.6 | 8.1 | 7.2 | 7.7 | 8.8 | 8.4 | 8.6 | --- | --- | --- |
| 8 | 6.7 | 6.4 | 6.6 | 8.3 | 7.6 | 7.9 | 9.0 | 8.4 | 8.8 | --- | --- | --- |
| 9 | 6.9 | 6.5 | 7.2 | 8.0 | 7.6 | 7.8 | 9.7 | 8.9 | 9.4 | --- | --- | --- |
| 10 | 6.6 | 6.0 | 6.3 | 8.1 | 7.5 | 7.9 | 10.3 | 9.4 | 10 | --- | --- | --- |
| 11 | 6.8 | 5.1 | 6.2 | --- | --- | --- | 10.6 | 10.0 | 10.4 | --- | --- | --- |
| 12 | 5.4 | 2.8 | 4.5 | --- | --- | --- | 10.4 | 10.1 | 10.3 | --- | --- | --- |
| 13 | 5.5 | 2.8 | 4.4 | --- | --- | --- | 10.2 | 9.8 | 10.1 | --- | --- | --- |
| 14 | 5.2 | 3.5 | 3.8 | --- | --- | --- | 10.3 | 9.8 | 10.1 | --- | --- | --- |
| 15 | 4.4 | 3.5 | 4.1 | --- | --- | --- | 10.4 | 9.9 | 10.2 | --- | --- | --- |
| 16 | 5.2 | 4.4 | 4.9 | 7.0 | 8.2 | 8.4 | --- | --- | --- | --- | --- | --- |
| 17 | 5.6 | 5.2 | 5.4 | 8.4 | 8.1 | 8.2 | --- | --- | --- | --- | --- | --- |
| 18 | 5.9 | 5.5 | 5.7 | 8.5 | 8.1 | 8.2 | --- | --- | --- | --- | --- | --- |
| 19 | 6.1 | 5.8 | 5.9 | 8.5 | 8.1 | 8.2 | --- | --- | --- | --- | --- | --- |
| 20 | 6.4 | 5.8 | 6.0 | 8.9 | 8.3 | 8.6 | --- | --- | --- | --- | --- | --- |
| 21 | 6.7 | 6.2 | 6.5 | 9.2 | 8.8 | 9.0 | --- | --- | --- | --- | --- | --- |
| 22 | 7.0 | 6.6 | 6.8 | 9.5 | 9.1 | 9.3 | --- | --- | --- | --- | --- | --- |
| 23 | 7.0 | 6.6 | 6.8 | 9.4 | 8.8 | 9.2 | --- | --- | --- | --- | --- | --- |
| 24 | 7.5 | 6.9 | 7.2 | 9.5 | 8.8 | 9.1 | --- | --- | --- | --- | --- | --- |
| 25 | 7.7 | 7.4 | 7.5 | 9.4 | 8.9 | 9.1 | --- | --- | --- | --- | --- | --- |
| 26 | 8.3 | 7.9 | 8.1 | 9.5 | 8.9 | 9.1 | --- | --- | --- | --- | --- | --- |
| 27 | 8.7 | 7.8 | 8.2 | 9.6 | 8.9 | 9.2 | --- | --- | --- | --- | --- | --- |
| 28 | 8.8 | 8.1 | 8.4 | 10.0 | 9.3 | 9.7 | --- | --- | --- | --- | --- | --- |
| 29 | 8.8 | 8.3 | 8.6 | 10.2 | 9.7 | 9.9 | --- | --- | --- | --- | --- | --- |
| 30 | 9.1 | 8.4 | 8.7 | 10.3 | 10.0 | 10.1 | --- | --- | --- | --- | --- | --- |
| 31 | 8.9 | 8.3 | 8.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | 9.1 | 2.8 | 6.6 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

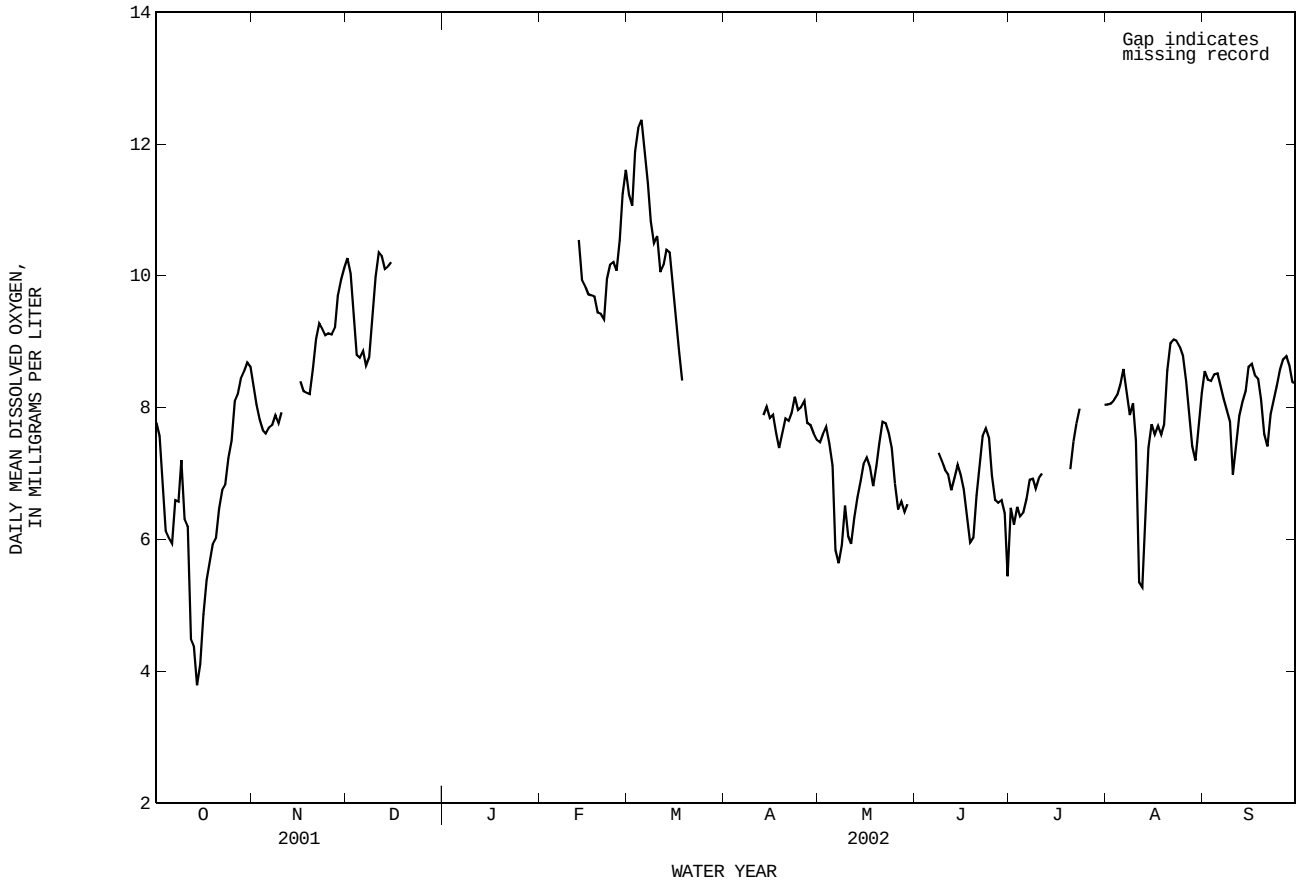
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 11.7 | 10.7 | 11.2 | --- | --- | --- | 7.6 | 7.4 | 7.5 |
| 2 | --- | --- | --- | 11.8 | 10.2 | 11.1 | --- | --- | --- | 7.7 | 7.5 | 7.6 |
| 3 | --- | --- | --- | 12.6 | 11.1 | 11.9 | --- | --- | --- | 7.8 | 7.4 | 7.7 |
| 4 | --- | --- | --- | 12.8 | 11.5 | 12.2 | --- | --- | --- | 7.6 | 7.3 | 7.5 |
| 5 | --- | --- | --- | 13.4 | 11.6 | 12.4 | --- | --- | --- | 7.7 | 5.9 | 7.1 |
| 6 | --- | --- | --- | 12.4 | 11.3 | 11.8 | --- | --- | --- | 6.2 | 5.6 | 5.8 |
| 7 | --- | --- | --- | 12.4 | 10.6 | 11.4 | --- | --- | --- | 5.7 | 5.5 | 5.6 |
| 8 | --- | --- | --- | 11.4 | 10.1 | 10.8 | --- | --- | --- | 6.3 | 5.6 | 5.9 |
| 9 | --- | --- | --- | 11.5 | 9.4 | 10.5 | --- | --- | --- | 6.7 | 6.3 | 6.5 |
| 10 | --- | --- | --- | 11.3 | 9.9 | 10.6 | --- | --- | --- | 6.6 | 5.4 | 6.0 |
| 11 | --- | --- | --- | 10.5 | 9.6 | 10.1 | --- | --- | --- | 6.1 | 5.8 | 5.9 |
| 12 | --- | --- | --- | 11.2 | 9.4 | 10.2 | --- | --- | --- | 6.6 | 6.0 | 6.3 |
| 13 | 10.7 | 10.1 | 10.5 | 11.4 | 9.4 | 10.4 | 8.1 | 7.8 | 7.9 | 6.8 | 6.4 | 6.6 |
| 14 | 10.1 | 9.8 | 9.9 | 11.4 | 9.4 | 10.4 | 8.1 | 7.9 | 8.0 | 7.2 | 6.5 | 6.9 |
| 15 | 10.0 | 9.7 | 9.8 | 11.1 | 9.0 | 9.9 | 8.1 | 7.6 | 7.8 | 7.4 | 6.9 | 7.1 |
| 16 | 9.9 | 9.6 | 9.7 | 10.3 | 8.6 | 9.4 | 8.1 | 7.7 | 7.9 | 7.4 | 7.1 | 7.2 |
| 17 | 9.8 | 9.5 | 9.7 | 9.4 | 8.4 | 8.9 | 8.0 | 7.3 | 7.6 | 7.2 | 7.0 | 7.1 |
| 18 | 9.8 | 9.6 | 9.7 | 8.9 | 8.2 | 8.4 | 7.8 | 7.1 | 7.4 | 7.1 | 6.6 | 6.8 |
| 19 | 9.6 | 9.2 | 9.4 | --- | --- | --- | 7.9 | 7.3 | 7.6 | 7.3 | 7.0 | 7.1 |
| 20 | 9.7 | 9.1 | 9.4 | --- | --- | --- | 8.2 | 7.6 | 7.8 | 7.7 | 7.1 | 7.5 |
| 21 | 9.5 | 9.2 | 9.3 | --- | --- | --- | 8.3 | 7.4 | 7.8 | 8.0 | 7.5 | 7.8 |
| 22 | 10.4 | 9.5 | 10 | --- | --- | --- | 8.5 | 7.7 | 7.9 | 7.9 | 7.6 | 7.8 |
| 23 | 10.5 | 9.7 | 10.2 | --- | --- | --- | 8.6 | 7.7 | 8.2 | 7.7 | 7.4 | 7.6 |
| 24 | 10.7 | 9.8 | 10.2 | --- | --- | --- | 8.5 | 7.6 | 8.0 | 7.6 | 7.3 | 7.4 |
| 25 | 10.5 | 9.4 | 10.1 | --- | --- | --- | 8.4 | 7.7 | 8.0 | 7.4 | 6.6 | 6.8 |
| 26 | 11.3 | 9.7 | 10.5 | --- | --- | --- | 8.6 | 7.7 | 8.1 | 6.6 | 6.2 | 6.5 |
| 27 | 11.8 | 10.5 | 11.2 | --- | --- | --- | 8.0 | 7.6 | 7.8 | 6.8 | 6.3 | 6.6 |
| 28 | 12.5 | 10.7 | 11.6 | --- | --- | --- | 8.1 | 7.5 | 7.7 | 6.9 | 5.9 | 6.4 |
| 29 | --- | --- | --- | --- | --- | --- | 7.8 | 7.5 | 7.6 | 6.7 | 6.3 | 6.5 |
| 30 | --- | --- | --- | --- | --- | --- | 7.8 | 7.3 | 7.5 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

TRINITY RIVER BASIN

08062500 Trinity River near Rosser, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 6.8 | 6.1 | 6.5 | 8.8 | 7.4 | 8.0 | 9.1 | 8.1 | 8.6 |
| 2 | --- | --- | --- | 6.6 | 5.7 | 6.2 | 8.7 | 7.5 | 8.1 | 9.1 | 7.7 | 8.4 |
| 3 | --- | --- | --- | 6.6 | 6.3 | 6.5 | 8.8 | 7.5 | 8.1 | 8.9 | 7.7 | 8.4 |
| 4 | --- | --- | --- | 6.5 | 6.0 | 6.3 | 9.1 | 7.5 | 8.2 | 9.2 | 7.9 | 8.5 |
| 5 | --- | --- | --- | 6.7 | 6.1 | 6.4 | 9.3 | 7.5 | 8.3 | 9.4 | 7.7 | 8.5 |
| 6 | --- | --- | --- | 6.8 | 6.5 | 6.6 | 9.7 | 7.7 | 8.6 | 9.0 | 7.9 | 8.3 |
| 7 | --- | --- | --- | 7.0 | 6.8 | 6.9 | 8.9 | 7.5 | 8.3 | 8.7 | 7.6 | 8.1 |
| 8 | 7.7 | 7.1 | 7.3 | 7.1 | 6.7 | 6.9 | 8.5 | 7.3 | 7.9 | 8.3 | 7.6 | 8.0 |
| 9 | 7.5 | 7.0 | 7.2 | 7.0 | 6.7 | 6.8 | 8.8 | 7.3 | 8.1 | 8.1 | 7.6 | 7.8 |
| 10 | 7.3 | 6.8 | 7.1 | 7.2 | 6.6 | 6.9 | 8.1 | 7.2 | 7.5 | 7.9 | 6.5 | 7.0 |
| 11 | 7.2 | 6.8 | 7.0 | 7.4 | 6.6 | 7.0 | 7.2 | 4.7 | 5.4 | 8.0 | 6.9 | 7.4 |
| 12 | 7.1 | 6.5 | 6.8 | --- | --- | --- | 6.0 | 4.5 | 5.3 | 8.2 | 7.5 | 7.9 |
| 13 | 7.1 | 6.7 | 6.9 | --- | --- | --- | 7.1 | 6.0 | 6.6 | 8.7 | 7.7 | 8.1 |
| 14 | 7.4 | 6.9 | 7.1 | --- | --- | --- | 7.7 | 7.1 | 7.4 | 8.7 | 7.7 | 8.3 |
| 15 | 7.4 | 6.4 | 7.0 | --- | --- | --- | 8.1 | 7.3 | 7.8 | 9.2 | 8.0 | 8.6 |
| 16 | 7.1 | 6.5 | 6.8 | --- | --- | --- | 7.9 | 7.3 | 7.6 | 9.0 | 8.3 | 8.7 |
| 17 | 7.2 | 5.4 | 6.4 | --- | --- | --- | 8.0 | 7.2 | 7.7 | 8.9 | 7.9 | 8.5 |
| 18 | 6.2 | 5.8 | 6.0 | --- | --- | --- | 8.0 | 7.3 | 7.6 | 8.9 | 7.7 | 8.4 |
| 19 | 6.7 | 5.7 | 6.0 | --- | --- | --- | 8.4 | 7.3 | 7.7 | 8.5 | 7.7 | 8.1 |
| 20 | 6.9 | 6.4 | 6.7 | 7.3 | 6.8 | 7.1 | 9.6 | 7.7 | 8.6 | 8.6 | 6.9 | 7.6 |
| 21 | 7.6 | 6.6 | 7.1 | 8.0 | 7.1 | 7.5 | 10.1 | 8.0 | 9.0 | 7.7 | 7.1 | 7.4 |
| 22 | 7.8 | 7.4 | 7.6 | 8.4 | 7.3 | 7.8 | 10.4 | 7.8 | 9.0 | 8.2 | 7.5 | 7.9 |
| 23 | 8.0 | 7.4 | 7.7 | 8.6 | 7.5 | 8.0 | 9.9 | 8.0 | 9.0 | 8.5 | 7.8 | 8.1 |
| 24 | 7.8 | 7.3 | 7.5 | --- | --- | --- | 9.9 | 8.1 | 8.9 | 8.8 | 7.8 | 8.3 |
| 25 | 7.4 | 6.8 | 7.0 | --- | --- | --- | 9.5 | 8.1 | 8.8 | 9.4 | 8.0 | 8.6 |
| 26 | 6.8 | 6.4 | 6.6 | --- | --- | --- | 9.2 | 7.8 | 8.4 | 9.7 | 8.0 | 8.7 |
| 27 | 6.7 | 6.4 | 6.6 | --- | --- | --- | 8.4 | 7.3 | 7.9 | 9.3 | 8.3 | 8.8 |
| 28 | 6.7 | 6.3 | 6.6 | --- | --- | --- | 8.1 | 6.5 | 7.4 | 9.1 | 8.2 | 8.6 |
| 29 | 6.7 | 5.4 | 6.4 | --- | --- | --- | 7.7 | 6.5 | 7.2 | 8.9 | 7.9 | 8.4 |
| 30 | 6.1 | 4.8 | 5.4 | --- | --- | --- | 8.1 | 7.0 | 7.7 | 8.9 | 8.1 | 8.4 |
| 31 | --- | --- | --- | 8.8 | 7.5 | 8.0 | 8.9 | 7.7 | 8.2 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 10.4 | 4.5 | 7.9 | 9.7 | 6.5 | 8.2 |



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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 $mi^2$, not including 1,007 $mi^2$ 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.--Records fair except those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1964, at least 10% of contributing drainage area has been regulated. The cities of Fort Worth, Dallas, and several smaller cities divert considerable water for their municipal use, of which about 60 percent is returned as wastewater effluent that sustains low flows at this site.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 952 | 938 | 1680 | 1560 | 7520 | 1250 | 18400 | 8580 | 2350 | 1920 | 1110 | 995 |
| 2 | 932 | 939 | 1270 | e1520 | 13600 | 1220 | 20800 | 6610 | 1770 | 3010 | 1140 | 938 |
| 3 | 925 | 949 | 1110 | 1460 | 15700 | 1240 | 25300 | 5750 | 1560 | 4520 | 983 | 906 |
| 4 | 914 | 963 | 1050 | 1450 | 17200 | 1400 | 26900 | 6300 | 1480 | 4510 | 950 | 896 |
| 5 | 924 | 951 | 1040 | 1420 | 16600 | 1440 | 24400 | 6920 | 1390 | 4600 | 883 | 911 |
| 6 | 1020 | 940 | 1030 | 1420 | 14500 | 1320 | 21600 | 9730 | 1310 | 3460 | 840 | 877 |
| 7 | 1910 | 963 | 1020 | 1470 | 17100 | 1290 | 19200 | 14300 | 1250 | 1930 | 845 | 874 |
| 8 | 1320 | 946 | 1290 | 1480 | 18400 | 1230 | 18900 | 16300 | 1340 | 2050 | 852 | 883 |
| 9 | 1040 | 938 | 1290 | 1420 | 16800 | 1200 | 19200 | 17100 | 1490 | 1550 | 828 | 893 |
| 10 | 969 | 935 | 1090 | 1370 | 11400 | 1210 | 19800 | 14000 | 1860 | 1240 | 856 | 2080 |
| 11 | 955 | 1040 | 1020 | 1330 | 7070 | 1350 | 21000 | 11400 | 2040 | 1210 | 1850 | 2240 |
| 12 | 2640 | 1070 | 1130 | 1310 | 4100 | 1210 | 23300 | 12200 | 2150 | 1120 | 4560 | 1490 |
| 13 | 7040 | 1520 | 1210 | 1290 | 2610 | 1160 | 25000 | 13100 | 2180 | 3000 | 3910 | 1140 |
| 14 | 10800 | 1630 | 1440 | 1540 | 2040 | 1170 | 24000 | 13800 | 1780 | 3870 | 1670 | 1030 |
| 15 | 10200 | 1440 | 2080 | 1320 | 1860 | 1140 | 22000 | 14500 | 1730 | 2010 | 1180 | 978 |
| 16 | 5150 | 1160 | 11800 | 1220 | 1730 | 1150 | 20300 | 12800 | 1940 | 2710 | 1510 | 933 |
| 17 | 3210 | 1100 | 31000 | 1180 | 1630 | 1160 | 19000 | 11200 | 1930 | 10600 | 1860 | 832 |
| 18 | 2270 | 1110 | 49800 | 1160 | 1550 | 1190 | 18500 | 11300 | 2990 | 7350 | 1250 | 1010 |
| 19 | 1600 | 1080 | 49100 | 1160 | 1760 | e1310 | 19200 | 12400 | 2130 | 4610 | 1090 | 1090 |
| 20 | 1440 | 1200 | 42000 | 1160 | 2650 | e4000 | 20100 | 11900 | 1380 | 2810 | 972 | 1320 |
| 21 | 1340 | 1120 | 34600 | 1150 | 2730 | e7000 | e20400 | 7660 | 1180 | 1520 | 1020 | 2570 |
| 22 | 1250 | 1020 | 24600 | 1130 | 1690 | e12000 | e20300 | 5820 | 1110 | 1220 | 1020 | 1920 |
| 23 | 1180 | 977 | 16000 | 1130 | 1420 | e20000 | 19300 | 5790 | 1180 | 1090 | 974 | 1280 |
| 24 | 1100 | 960 | 9270 | 1320 | 1350 | e25700 | 17600 | 5570 | 1160 | 1030 | 916 | 1110 |
| 25 | 1070 | 953 | 7090 | 3950 | 1290 | e29500 | 15700 | 3920 | 1020 | 990 | 892 | 1030 |
| 26 | 1040 | 957 | 4330 | 7100 | 1260 | 28700 | 14100 | 2740 | 981 | 961 | 871 | 928 |
| 27 | 987 | 938 | 3370 | 5790 | 1270 | 24400 | 13300 | 2150 | 1050 | 924 | 892 | 886 |
| 28 | 963 | 1010 | 2520 | 2430 | 1320 | 19200 | 13300 | 2370 | 1210 | 917 | 1400 | 865 |
| 29 | 932 | 1130 | 2020 | 1560 | --- | 16200 | 12400 | 3290 | 1400 | 898 | 2330 | 860 |
| 30 | 942 | 1680 | 2800 | 1450 | --- | 15100 | 10500 | 4370 | 2230 | 897 | 1560 | 855 |
| 31 | 954 | --- | 1920 | 2000 | --- | 16600 | --- | 3790 | --- | 909 | 1140 | --- |
| TOTAL | 67969 | 32557 | 310970 | 56250 | 188150 | 242040 | 583800 | 277660 | 48571 | 79436 | 42154 | 34620 |
| MEAN | 2193 | 1085 | 10030 | 1815 | 6720 | 7808 | 19460 | 8957 | 1619 | 2562 | 1360 | 1154 |
| MAX | 10800 | 1680 | 49800 | 7100 | 18400 | 29500 | 26900 | 17100 | 2990 | 10600 | 4560 | 2570 |
| MIN | 914 | 935 | 1020 | 1130 | 1260 | 1140 | 10500 | 2150 | 981 | 897 | 828 | 832 |
| AC-FT | 134800 | 64580 | 616800 | 111600 | 373200 | 480100 | 1158000 | 550700 | 96340 | 157600 | 83610 | 68670 |

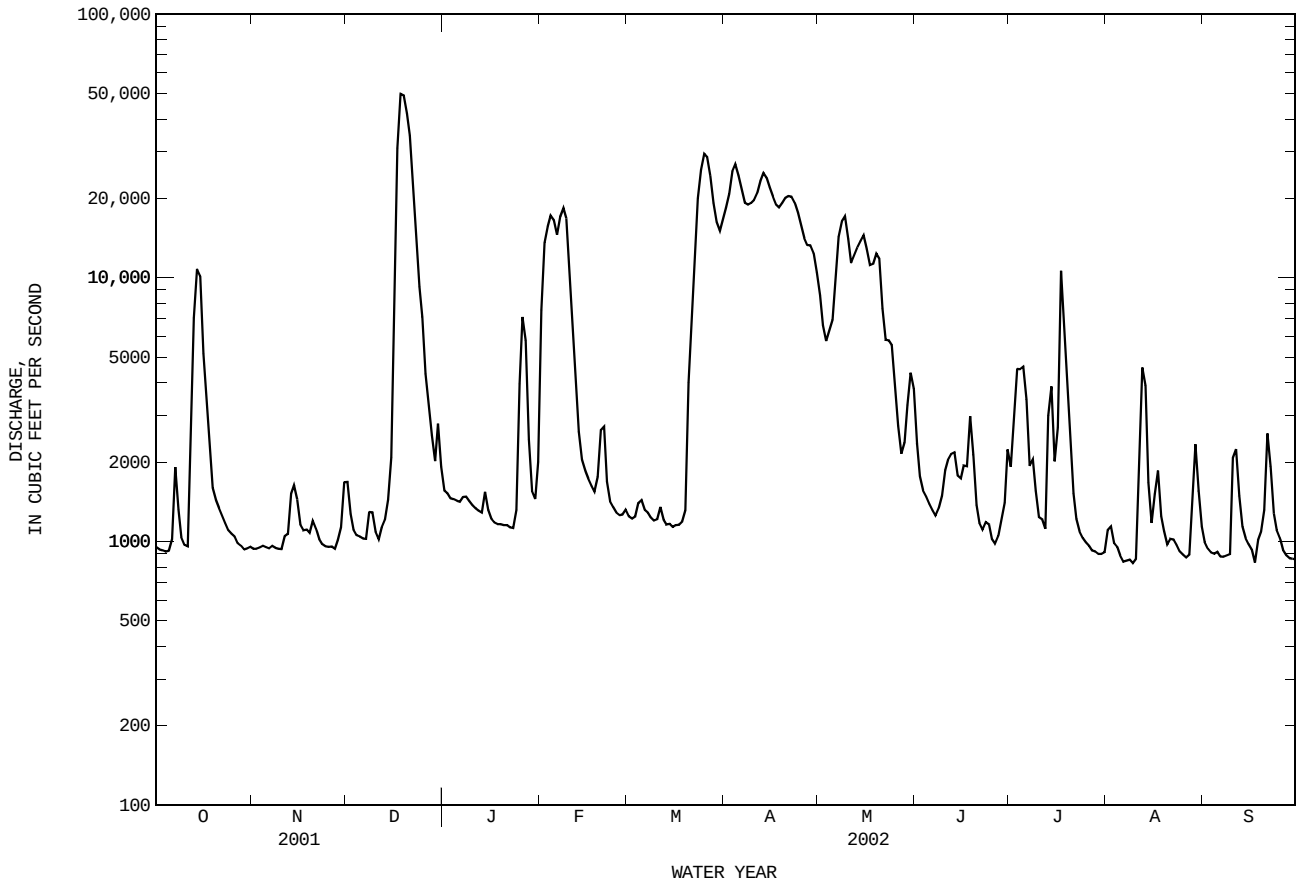
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 2583 | 3855 | 4891 | 3713 | 5405 | 6921 | 6246 | 9034 | 6280 | 2454 | 1353 | 1252 |
| MAX | 11390 | 20160 | 24320 | 20490 | 20550 | 28360 | 20550 | 47120 | 26790 | 11800 | 6886 | 3347 |
| (WY) | 1974 | 1975 | 1992 | 1992 | 1992 | 2001 | 1997 | 1990 | 1989 | 1982 | 1982 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1965 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 2703384 | | 1964177 | | | |
| ANNUAL MEAN | 7407 | | 5381 | | 4493 | |
| HIGHEST ANNUAL MEAN | | | | | 11400 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 854 | 1978 |
| HIGHEST DAILY MEAN | 49800 | Dec 18 | 49800 | Dec 18 | 94100 | May 7 1990 |
| LOWEST DAILY MEAN | 839 | Jul 31 | 828 | Aug 9 | 312 | Aug 9 1972 |
| ANNUAL SEVEN-DAY MINIMUM | 851 | Aug 6 | 865 | Aug 4 | 326 | Jul 7 1972 |
| MAXIMUM PEAK FLOW | | | 52600 | Dec 18 | 94500 | May 7 1990 |
| MAXIMUM PEAK STAGE | | | 41.94 | Dec 18 | 48.11 | May 7 1990 |
| ANNUAL RUNOFF (AC-FT) | 5362000 | | 3896000 | | 3255000 | |
| 10 PERCENT EXCEEDS | 21000 | | 17900 | | 12500 | |
| 50 PERCENT EXCEEDS | 2220 | | 1470 | | 1310 | |
| 90 PERCENT EXCEEDS | 934 | | 938 | | 520 | |

e Estimated



## 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.--14.33 $mi^2$.

PERIOD OF RECORD.--Apr. 1999 to current year.

GAGE.--Water data 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 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. Conservation pool storage is 8,580 acre-ft. 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 |

COOPERATION.--The capacity table was provided by the Texas Water Development Board on Apr. 15, 1999.

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.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 11,840 acre-ft, June 10, elevation, 507.31 ft; minimum contents, 6,210 acre-ft, Oct. 11, elevation, 501.04 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

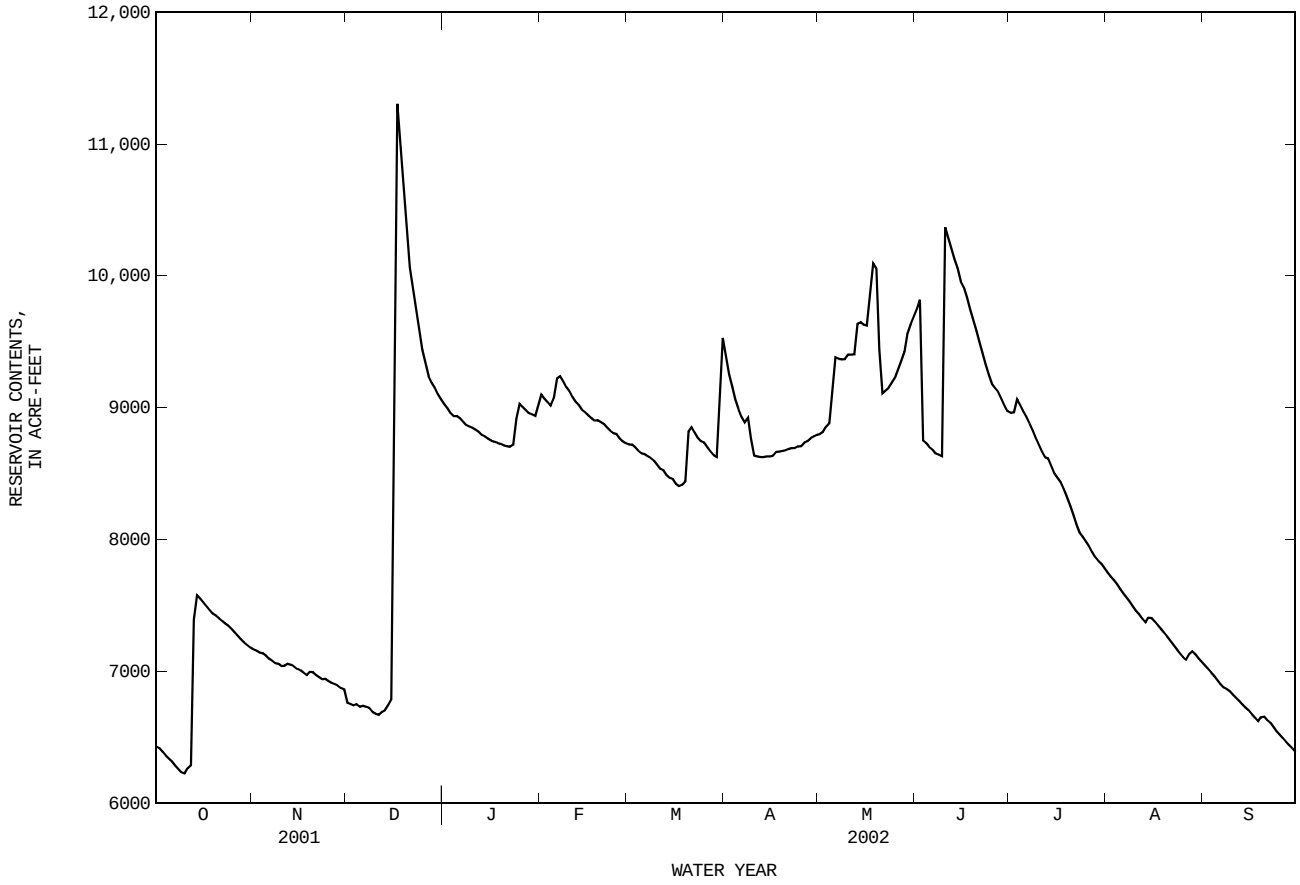
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6430 | 7170 | e6760 | 9030 | 9100 | 8720 | 9390 | 8800 | 9750 | 8960 | 7750 | 7050 |
| 2 | 6410 | 7150 | e6750 | 8990 | 9070 | 8720 | 9250 | 8810 | 9820 | 8960 | 7720 | 7020 |
| 3 | 6390 | 7140 | e6740 | 8960 | 9040 | 8700 | 9150 | 8850 | e8750 | 9060 | 7690 | 6990 |
| 4 | 6360 | 7140 | e6750 | 8940 | 9010 | 8670 | 9060 | 8880 | e8730 | 9020 | 7660 | 6960 |
| 5 | 6340 | 7120 | e6730 | 8930 | 9070 | 8650 | 8990 | 9160 | e8700 | 8970 | 7620 | 6930 |
| 6 | 6310 | 7090 | 6740 | 8920 | 9220 | 8650 | 8930 | 9380 | e8680 | 8930 | 7590 | 6900 |
| 7 | 6280 | 7080 | 6730 | 8890 | 9240 | 8630 | 8890 | 9370 | e8650 | 8880 | 7560 | 6880 |
| 8 | 6260 | 7060 | 6720 | 8870 | 9200 | 8620 | 8920 | 9360 | e8640 | 8830 | 7530 | 6860 |
| 9 | 6230 | 7060 | 6690 | 8860 | 9160 | 8600 | 8760 | 9370 | e8630 | 8770 | 7490 | 6850 |
| 10 | 6220 | 7040 | 6680 | 8840 | 9120 | 8570 | 8640 | 9400 | 10370 | 8720 | 7460 | 6820 |
| 11 | 6260 | 7040 | 6670 | 8830 | 9080 | 8540 | 8630 | 9400 | 10290 | 8670 | 7430 | 6800 |
| 12 | 6280 | 7060 | 6690 | 8820 | 9040 | 8520 | 8620 | 9400 | 10210 | 8620 | 7400 | 6770 |
| 13 | 7390 | 7050 | 6700 | 8790 | 9020 | 8490 | 8620 | 9640 | 10130 | 8620 | 7370 | 6750 |
| 14 | 7580 | 7040 | 6740 | 8780 | 8980 | 8470 | 8630 | 9650 | 10050 | 8560 | 7410 | 6720 |
| 15 | 7550 | 7020 | 6780 | 8760 | 8960 | 8460 | 8630 | 9630 | 9960 | 8500 | 7400 | 6700 |
| 16 | 7520 | 7010 | 9560 | 8750 | 8940 | 8420 | 8630 | 9620 | 9910 | 8460 | 7380 | 6680 |
| 17 | 7490 | 6990 | 11300 | 8740 | 8920 | 8400 | 8660 | 9860 | 9830 | 8430 | 7350 | 6650 |
| 18 | 7460 | 6970 | 10920 | 8730 | 8900 | 8410 | 8670 | 10090 | 9740 | 8380 | 7320 | 6620 |
| 19 | 7440 | 6990 | 10590 | 8720 | 8900 | 8440 | 8670 | 10050 | 9660 | 8320 | 7290 | 6650 |
| 20 | 7420 | 6990 | 10290 | 8710 | 8890 | 8820 | 8680 | 9440 | 9580 | 8250 | 7260 | 6660 |
| 21 | 7400 | 6970 | 10060 | 8710 | 8870 | 8850 | 8690 | 9110 | 9500 | 8180 | 7230 | 6630 |
| 22 | 7380 | 6950 | 9880 | 8700 | 8850 | 8810 | 8690 | 9130 | 9410 | 8110 | 7200 | 6610 |
| 23 | 7360 | 6940 | 9710 | 8720 | 8830 | 8770 | 8690 | 9150 | 9320 | 8050 | 7170 | 6570 |
| 24 | 7340 | 6940 | 9560 | 8910 | 8810 | 8740 | 8700 | 9180 | 9240 | 8020 | 7130 | 6540 |
| 25 | 7320 | 6920 | 9440 | 9030 | 8800 | 8730 | 8710 | 9220 | 9180 | 7980 | 7110 | 6520 |
| 26 | 7290 | 6910 | 9330 | 9000 | 8770 | 8700 | 8730 | 9290 | 9150 | 7950 | 7090 | 6490 |
| 27 | 7270 | e6900 | 9240 | 8980 | 8740 | 8670 | 8740 | 9350 | 9120 | 7910 | 7130 | 6460 |
| 28 | 7240 | e6890 | 9190 | 8960 | 8730 | 8640 | 8760 | 9430 | 9070 | 7860 | 7150 | 6440 |
| 29 | 7220 | e6870 | 9150 | 8950 | --- | 8630 | 8780 | 9560 | 9010 | 7830 | 7130 | 6410 |
| 30 | 7200 | e6860 | 9100 | 8940 | --- | 9150 | 8790 | 9630 | 8970 | 7810 | 7100 | 6390 |
| 31 | 7180 | --- | 9060 | 9010 | --- | 9530 | --- | 9690 | --- | 7780 | 7070 | --- |
| MEAN | 6960 | 7010 | 8300 | 8860 | 8970 | 8670 | 8790 | 9380 | 9400 | 8430 | 7360 | 6710 |
| MAX | 7580 | 7170 | 11300 | 9030 | 9240 | 9530 | 9390 | 10090 | 10370 | 9060 | 7750 | 7050 |
| MIN | 6220 | 6860 | 6670 | 8700 | 8730 | 8400 | 8620 | 8800 | 8630 | 7780 | 7070 | 6390 |
| (+) | 502.30 | e501.82 | 504.71 | 504.63 | 504.20 | 505.27 | 504.30 | 505.42 | 504.58 | 503.04 | 502.16 | 501.27 |
| (@) | +770 | -320 | +2200 | -50 | -280 | +800 | -740 | +900 | -720 | -1190 | -710 | -680 |

CAL YR 2001 MAX 11300 MIN 5990 (@) +1230
WTR YR 2002 MAX 11300 MIN 6220 (@) -20

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08062730 New Terrell City Lake near Terrell, 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 $mi^2$.

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.--Records fair except those for estimated daily contents, which are poor. 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 Maba. 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 |
| Top of conservation pool | 322.0 |
| 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 into 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 using Table 1-C.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 686,200 acre-ft, Dec. 17, elevation, 323.45 ft; minimum contents, 587,900 acre-ft, Oct. 10, elevation, 320.40 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

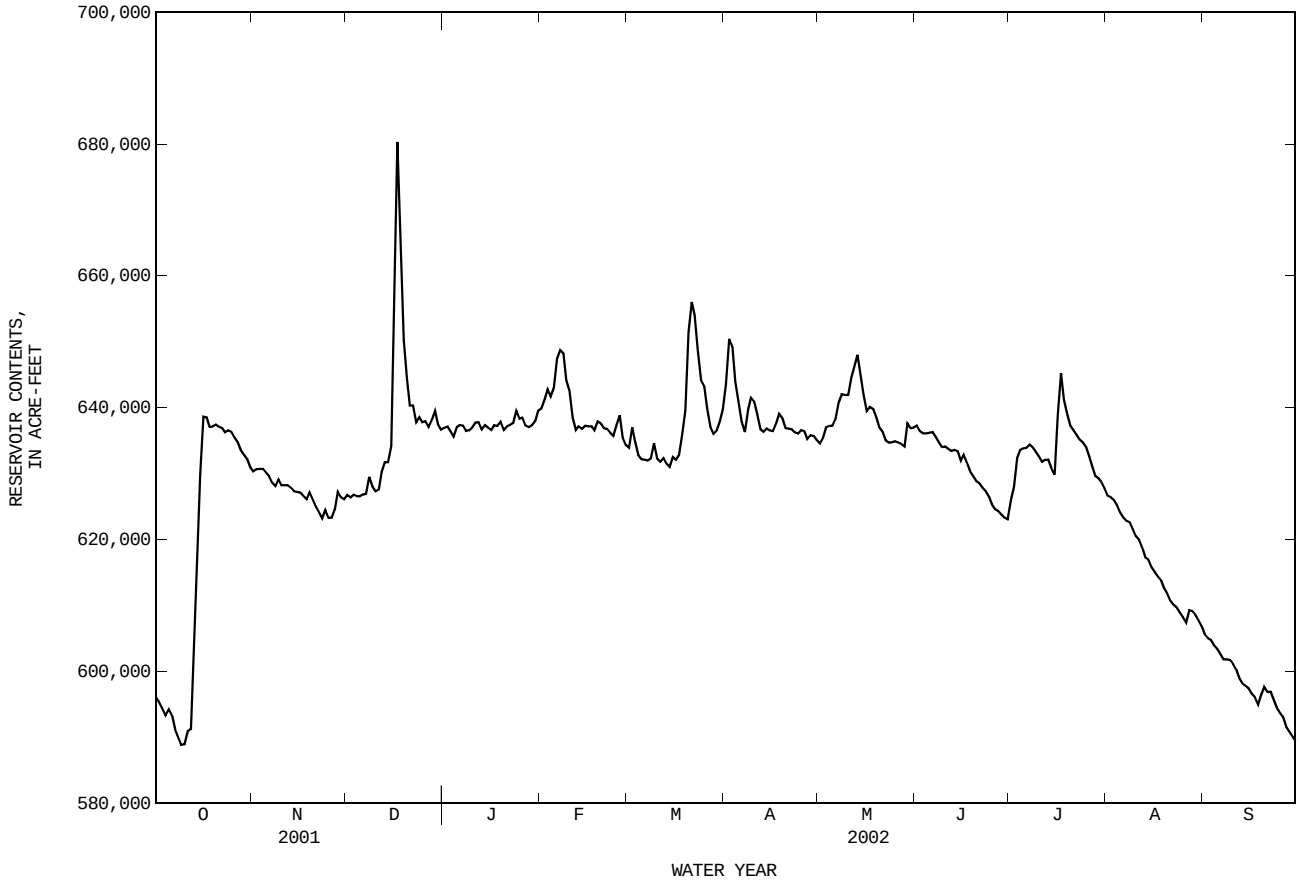
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 596000 | 630300 | 626700 | 636900 | 639800 | 633900 | 643600 | 634500 | 637200 | 625800 | 626600 | e605600 |
| 2 | 595200 | 630600 | 626400 | 637100 | 641200 | 637000 | 650400 | 635400 | 636400 | 628000 | 626400 | e605000 |
| 3 | 594200 | 630700 | 626800 | 636400 | 642800 | 634800 | 649300 | 637000 | 636100 | 632300 | 625900 | e604700 |
| 4 | 593300 | 630700 | 626600 | 635600 | 641700 | 632800 | 643900 | 637200 | 636100 | 633500 | 625100 | e603900 |
| 5 | 594200 | 630100 | 626500 | 637000 | 643000 | 632200 | 640700 | 637300 | 636200 | 633800 | 624100 | 603400 |
| 6 | 593300 | 629600 | 626800 | 637300 | 647400 | 632100 | 637800 | 638200 | 636300 | 633900 | 623300 | 602600 |
| 7 | 591100 | 628600 | 626900 | 637200 | 648700 | 631900 | 636200 | 640700 | 635600 | 634400 | 622800 | 601800 |
| 8 | 589900 | 628100 | 629500 | 636500 | 648200 | 632200 | 639600 | 642000 | 634800 | 633900 | 622600 | 601800 |
| 9 | 588800 | 629100 | 628000 | 636600 | 644100 | 634600 | 641500 | 641900 | 634000 | 633300 | 621500 | 601700 |
| 10 | 588900 | 628200 | 627300 | 637000 | 642500 | 632200 | 640900 | 641900 | 634100 | 632600 | 620500 | 601200 |
| 11 | 590900 | 628200 | 627600 | 637700 | 638400 | 631700 | 638900 | 644400 | 633700 | 631800 | 620000 | 600300 |
| 12 | 591200 | 628200 | 630200 | 637800 | 636600 | 632300 | 636700 | 646100 | 633400 | 632000 | 618800 | 599000 |
| 13 | 604800 | 627800 | 631700 | 636700 | 637100 | 631500 | 636300 | 648000 | 633600 | 632100 | 617200 | 598100 |
| 14 | 616000 | 627300 | 631700 | 637300 | 636800 | 631000 | 636800 | 644800 | 633300 | 630800 | 616900 | 597800 |
| 15 | 629900 | 627200 | 634200 | 636900 | 637200 | 632500 | 636500 | 641900 | 631900 | 629800 | 615800 | 597400 |
| 16 | 638600 | 627100 | 655000 | 636600 | 637100 | 632100 | 636400 | 639400 | 632800 | 639000 | 615000 | 596600 |
| 17 | 638500 | 626600 | 680300 | 637300 | 637100 | 632700 | 637600 | 640100 | 631700 | 645200 | 614300 | 596100 |
| 18 | 637000 | 626100 | 663100 | 637200 | 636500 | 635900 | 639000 | 639800 | 630300 | 641200 | 613700 | 594900 |
| 19 | 637100 | 627200 | 650300 | 637800 | 637900 | 639500 | 638400 | 638500 | 629600 | 639000 | 612600 | 596300 |
| 20 | 637400 | 626000 | 644400 | 636600 | 637600 | 651500 | 636800 | 637000 | 628800 | 637200 | 611800 | 597600 |
| 21 | 637000 | 625000 | 640300 | 637200 | 636900 | 656000 | 636800 | 636400 | 628500 | 636600 | 610700 | 596800 |
| 22 | 636800 | 624100 | 640300 | 637300 | 636800 | 654000 | 636700 | 635000 | 627800 | 635900 | 610100 | 596900 |
| 23 | 636200 | 623200 | 637700 | 637600 | 636200 | 648600 | 636200 | 634700 | 627300 | 635200 | 609700 | 595600 |
| 24 | 636500 | 624500 | 638500 | 639500 | 635700 | 644200 | 636100 | 634700 | 626400 | 634700 | 608900 | 594500 |
| 25 | 636300 | 623200 | 637800 | 638300 | 637400 | 643300 | 636600 | 634900 | 625300 | 634000 | 608200 | 593700 |
| 26 | 635400 | 623300 | 637900 | 638400 | 638800 | 639900 | 636400 | 634700 | 624600 | 632600 | 607400 | 593000 |
| 27 | 634800 | 624600 | 637100 | 637300 | 635500 | 637200 | 635200 | 634500 | 624300 | 631100 | 609200 | 591600 |
| 28 | 633500 | 627200 | 638100 | 637000 | 634300 | 636000 | 635800 | 634100 | 623700 | 629600 | 609100 | 590800 |
| 29 | 632800 | 626400 | 639500 | 637300 | --- | 636500 | 635700 | 637600 | 623300 | 629300 | 608500 | 590100 |
| 30 | 632200 | 626100 | 637500 | 637900 | --- | 637900 | 635100 | 636900 | 623000 | 628700 | e607700 | 589400 |
| 31 | 630900 | --- | 636600 | 639500 | --- | 639700 | --- | 637000 | --- | 627800 | e606800 | --- |
| MEAN | 617100 | 627200 | 636800 | 637300 | 639400 | 637300 | 638600 | 638600 | 631000 | 633400 | 615800 | 597900 |
| MAX | 638600 | 630700 | 680300 | 639500 | 648700 | 656000 | 650400 | 648000 | 637200 | 645200 | 626600 | 605600 |
| MIN | 588800 | 623200 | 626400 | 635600 | 634300 | 631000 | 635100 | 634100 | 623000 | 625800 | 606800 | 589400 |
| (+) | 321.80 | 321.64 | 321.98 | 322.07 | 321.91 | 322.08 | 321.93 | 321.99 | 321.54 | 321.70 | e321.02 | 320.45 |
| (@) | +33800 | -4800 | +10500 | +2900 | -5200 | +5400 | -4600 | +1900 | -14000 | +4800 | -21000 | -17400 |

CAL YR 2001 MAX 680300 MIN 584700 (@) -16100
WTR YR 2002 MAX 680300 MIN 588800 (@) -7700

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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 $mi^2$.

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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1200 | 35 | 441 | 7.9 | 8.5 | 8.6 | 75 | <2.0 | 220 | 25 | 83.3 | 1.89 | 7.78 |
| MAY | | | | | | | | | | | | | |
| 01... | 1100 | 14 | 387 | 7.9 | 23.0 | 7.0 | 82 | 3.1 | 180 | -- | 69.1 | 2.00 | 10.0 |
| JUL | | | | | | | | | | | | | |
| 10... | 0945 | 1.0 | 418 | 7.6 | 26.5 | 7.6 | 95 | 2.6 | 180 | 28 | 65.1 | 3.03 | 21.6 |
| AUG | | | | | | | | | | | | | |
| 01... | 1145 | .04 | 392 | 7.9 | 30.0 | 5.3 | 70 | 2.1 | 150 | 16 | 55.9 | 2.90 | 19.1 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | .2 | 7 | 1.14 | 2 | 229 | 190 | 20.4 | 7.32 | .3 | 5.77 | 250 | 246 | 44 |
| MAY | | | | | | | | | | | | | |
| 01... | .3 | 11 | 1.27 | 2 | 219 | 182 | 21.9 | 10.0 | .3 | 8.94 | 234 | 235 | 34 |
| JUL | | | | | | | | | | | | | |
| 10... | .7 | 21 | 2.13 | 1 | 177 | 146 | 31.1 | 19.8 | .4 | 9.53 | 235 | 241 | 44 |
| AUG | | | | | | | | | | | | | |
| 01... | .7 | 21 | 2.12 | 1 | 164 | 135 | 25.0 | 19.1 | .4 | 10.3 | 228 | 217 | <10 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | .90 | .019 | .92 | <.04 | -- | .18 | E.004 | <.02 | 2.6 | 7 | .08 | <2 | 49 |
| MAY | | | | | | | | | | | | | |
| 01... | -- | E.005 | .46 | <.04 | -- | .24 | .009 | <.04 | 4.7 | 2 | .14 | E2 | 57 |
| JUL | | | | | | | | | | | | | |
| 10... | -- | E.004 | .11 | .04 | .42 | .47 | .012 | <.02 | 4.0 | <1 | .15 | 2 | 65 |
| AUG | | | | | | | | | | | | | |
| 01... | -- | E.005 | .05 | .06 | .33 | .39 | .010 | <.02 | 4.8 | 2 | .20 | 3 | 61 |

| Date | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | <.06 | <.04 | <.8 | .20 | 1.0 | <10 | <.08 | 4.6 | E.01n | .5 | .43 | <2 | <1 |
| MAY | | | | | | | | | | | | | |
| 01... | <.06 | .06 | <.8 | .33 | 1.4 | <10 | E.06 | 16.4 | <.01 | .6 | 2.08 | <2 | <1 |
| JUL | | | | | | | | | | | | | |
| 10... | <.06 | E.02 | <.8 | .41 | 2.3 | <10 | <.08 | 41.1 | .01 | .9 | 2.92 | <2 | <1 |
| AUG | | | | | | | | | | | | | |
| 01... | <.06 | E.02 | <.8 | .36 | 1.1 | <10 | E.05 | 91.3 | .03 | 1.0 | 2.47 | <2 | <1 |

08063045 Richland Creek near Irene, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | ZINC, DIS- SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703) |
|---|---|---|
| FEB | | |
| 13... | 2 | 1.26 |
| MAY | | |
| 01... | 2 | .96 |
| JUL | | |
| 10... | 1 | .68 |
| AUG | | |
| 01... | 4 | .57 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
n -- Below the NDV

## 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 $mi^2$.

### WATER-CONTENT RECORDS

PERIOD OF RECORD.--Aug. 1962 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 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 except those for estimated daily contents, which are fair. 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. Capacity table prior to Sept. 1976 is based on survey made in Feb. 1956 by U.S. Army Corps of Engineers. Capacity table after Aug. 31, 1976, is based on a sedimentation survey made in Sept. 1972. 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 $mi^2$ 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. Conservation pool storage is 56,963 acre-ft. 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 |
| Top of conservation pool | 424.5 |
| Crest of spillway | 414.0 |
| Lowest gated outlet (invert) | 400.0 |

COOPERATION.--Capacity table furnished by the U.S. Army Corps of Engineers.

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 contents, 115,000 acre-ft, Dec. 25, elevation, 433.44 ft; minimum contents, 45,340 acre-ft, Oct. 12, elevation, 422.07 ft.

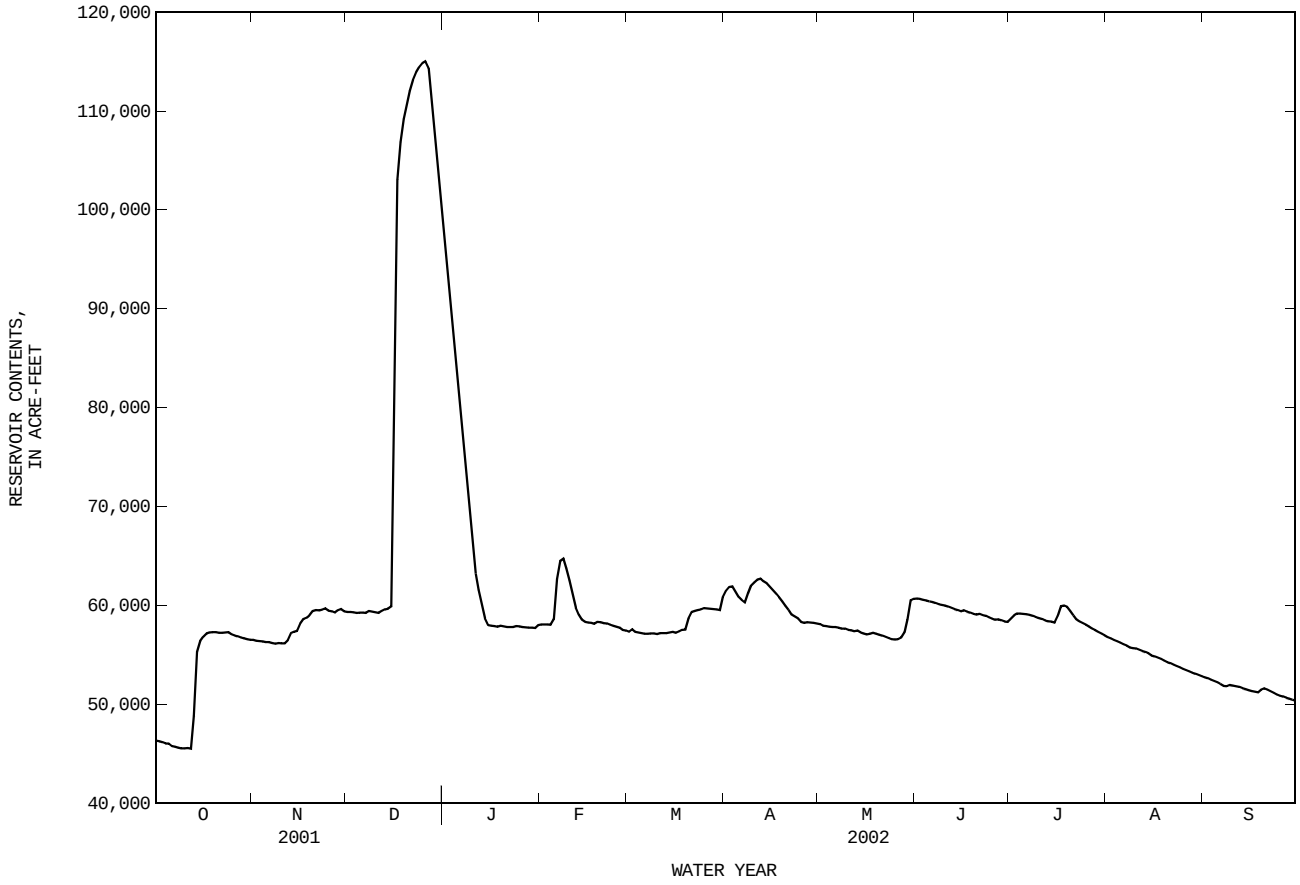
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 46320 | 56490 | 59320 | 96120 | 58070 | 57320 | 61450 | 58090 | 60690 | e58630 | 56770 | 52730 |
| 2 | 46230 | 56400 | 59300 | 92560 | 58060 | 57580 | 61850 | 57940 | 60650 | e58970 | 56620 | 52610 |
| 3 | 46130 | 56380 | 59280 | 88930 | 58050 | 57300 | 61890 | 57900 | 60560 | e59160 | 56470 | 52460 |
| 4 | 46000 | 56330 | 59210 | 85410 | 58020 | 57250 | 61430 | 57830 | 60480 | 59140 | 56330 | 52330 |
| 5 | 46000 | 56280 | 59260 | 82110 | 58580 | 57170 | 60870 | 57800 | 60380 | 59120 | 56210 | 52190 |
| 6 | 45760 | 56270 | 59240 | 78840 | 62640 | 57120 | 60540 | 57790 | 60330 | 59100 | 56060 | 52040 |
| 7 | 45680 | 56180 | 59210 | 75470 | 64470 | 57100 | 60300 | 57730 | 60230 | 59020 | 55920 | 51820 |
| 8 | 45590 | 56110 | 59430 | 72250 | 64680 | 57150 | 61220 | 57620 | 60110 | 58930 | 55730 | 51820 |
| 9 | 45520 | 56160 | 59360 | 69110 | 63730 | 57150 | 61960 | 57630 | 60020 | 58820 | 55650 | 51940 |
| 10 | 45520 | 56140 | 59300 | 66090 | 62480 | 57080 | 62310 | 57520 | 59960 | 58710 | 55610 | 51880 |
| 11 | 45570 | 56130 | 59210 | 63210 | 61050 | 57170 | 62590 | 57480 | 59860 | 58590 | 55510 | 51810 |
| 12 | 45490 | 56480 | 59430 | 61550 | 59740 | 57190 | 62700 | 57390 | 59730 | 58460 | 55380 | 51730 |
| 13 | 48800 | 57170 | 59590 | 60060 | 59050 | 57190 | 62440 | 57440 | 59620 | 58380 | 55270 | 51620 |
| 14 | 55270 | 57320 | 59640 | 58680 | 58530 | 57240 | 62220 | 57260 | 59530 | 58360 | 55130 | 51530 |
| 15 | 56390 | 57420 | 59870 | 58000 | 58330 | 57310 | 61880 | 57140 | 59390 | 58250 | 54920 | 51430 |
| 16 | 56830 | 58140 | 78420 | 57910 | 58250 | 57200 | 61530 | 57050 | 59480 | 58930 | 54820 | 51310 |
| 17 | 57130 | 58600 | 103000 | 57910 | 58220 | 57350 | 61170 | 57110 | 59360 | 59910 | 54680 | 51250 |
| 18 | 57260 | 58730 | 106800 | 57820 | 58120 | 57490 | 60800 | 57210 | 59260 | 59980 | 54540 | 51180 |
| 19 | 57280 | 58980 | 109200 | 57940 | 58320 | 57550 | 60380 | 57100 | 59120 | 59840 | 54400 | 51460 |
| 20 | 57280 | 59410 | 110700 | 57860 | 58280 | 58690 | 59920 | 57010 | 59070 | 59420 | 54250 | 51590 |
| 21 | 57220 | 59520 | 112000 | 57810 | 58180 | 59330 | 59510 | 56910 | 59120 | 58970 | 54130 | 51440 |
| 22 | 57220 | 59470 | 113100 | 57790 | 58140 | 59430 | 59070 | 56780 | 59010 | 58560 | 53980 | 51280 |
| 23 | 57250 | 59560 | 113900 | 57800 | 58020 | 59510 | 58880 | 56660 | 58910 | 58330 | 53850 | 51110 |
| 24 | 57280 | 59680 | 114500 | 57900 | 57930 | 59580 | 58680 | 56560 | 58770 | 58170 | 53730 | 50970 |
| 25 | 57050 | 59440 | 114800 | 57850 | 57830 | 59710 | 58310 | 56540 | 58640 | 58010 | 53550 | 50830 |
| 26 | 56920 | 59370 | 115000 | 57800 | 57730 | 59680 | 58230 | 56560 | 58550 | 57840 | 53410 | 50760 |
| 27 | 56870 | 59260 | 114300 | 57750 | 57500 | 59640 | 58280 | 56720 | 58570 | 57650 | 53290 | 50650 |
| 28 | 56720 | 59470 | 110900 | 57730 | 57440 | 59610 | 58230 | 57230 | 58480 | 57460 | 53180 | 50530 |
| 29 | 56650 | 59610 | 107200 | 57730 | --- | 59590 | 58210 | 58530 | 58340 | 57280 | 53070 | 50440 |
| 30 | 56570 | 59390 | 103400 | 57700 | --- | 59520 | 58170 | 60480 | 58310 | 57130 | 52950 | 50350 |
| 31 | 56520 | --- | 99770 | 58000 | --- | 60820 | --- | 60640 | --- | 56940 | 52810 | --- |
| TOTAL | 1622320 | 1735890 | 2617640 | 2033690 | 1659440 | 1803020 | 1815020 | 1783650 | 1784530 | 1816060 | 1698220 | 1545090 |
| MEAN | 52330 | 57860 | 84440 | 65600 | 59270 | 58160 | 60500 | 57540 | 59480 | 58580 | 54780 | 51500 |
| MAX | 57280 | 59680 | 115000 | 96120 | 64680 | 60820 | 62700 | 60640 | 60690 | 59980 | 56770 | 52730 |
| MIN | 45490 | 56110 | 59210 | 57700 | 57440 | 57080 | 58170 | 56540 | 58310 | 56940 | 52810 | 50350 |
| (+) | 424.41 | 424.97 | 431.46 | 424.70 | 424.59 | 425.24 | 424.73 | 425.21 | 424.76 | 424.49 | 423.66 | 423.16 |
| (@) | +10120 | +2870 | +40380 | -41770 | -560 | +3380 | -2650 | +2470 | -2330 | -1370 | -4130 | -2460 |

CAL YR 2001 MAX 137200 MIN 45490 (@) +23080
WTR YR 2002 MAX 115000 MIN 45490 (@) +3950

e Estimated
(+) Elevation, in feet, at end of month.
(@) Change in Contents, in acre-feet.

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 Sept. 2000.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

| Date | Time | RESER-VOIR STORAGE (AC-FT) (00054) | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1426 | 59000 | .27 | 1.00 | 274 | 7.9 | 10.0 | 9.9 | 88 | E2k | <1k | 110 | 8 |
| FEB | | | | | | | | | | | | | |
| 13-13 | 1426 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 1432 | -- | -- | 10.0 | 275 | 7.9 | 10.0 | 10.0 | 89 | -- | -- | -- | -- |
| 13... | 1439 | -- | -- | 20.0 | 275 | 7.9 | 10.0 | 10.0 | 89 | -- | -- | -- | -- |
| 13... | 1446 | -- | -- | 27.0 | 275 | 7.9 | 10.0 | 10.2 | 91 | -- | -- | 110 | 12 |
| MAY | | | | | | | | | | | | | |
| 01... | 1309 | 58200 | .43 | 1.00 | 335 | 8.2 | 25.5 | 7.8 | 98 | E20k | E6k | 140 | 11 |
| MAY | | | | | | | | | | | | | |
| 01-01 | 1309 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 1317 | -- | -- | 10.0 | 335 | 8.2 | 25.5 | 7.8 | 98 | -- | -- | -- | -- |
| 01... | 1324 | -- | -- | 20.0 | 336 | 8.1 | 25.0 | 7.5 | 93 | -- | -- | -- | -- |
| 01... | 1331 | -- | -- | 26.0 | 336 | 8.0 | 25.0 | 7.1 | 88 | -- | -- | 140 | 14 |
| AUG | | | | | | | | | | | | | |
| 01... | 1216 | 56800 | .24 | 1.00 | 279 | 7.6 | 29.5 | 4.4 | 59 | <2k | <2k | 110 | 11 |
| AUG | | | | | | | | | | | | | |
| 01-01 | 1216 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 1221 | -- | -- | 10.0 | 278 | 7.8 | 30.0 | 4.9 | 66 | -- | -- | -- | -- |
| 01... | 1226 | -- | -- | 20.0 | 280 | 7.6 | 29.5 | 4.0 | 53 | -- | -- | -- | -- |
| 01... | 1230 | -- | -- | 26.0 | 280 | 7.6 | 30.0 | 4.6 | 62 | -- | -- | 110 | 10 |

315730096412601 -- Navarro Mills Lk Site AC

| Date | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 40.5 | 2.54 | 9.05 | .4 | 15 | 3.46 | <1 | 126 | 105 | 21.2 | 6.47 | .3 | 6.2 |
| FEB | | | | | | | | | | | | | |
| 13-13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 41.3 | 2.58 | 9.11 | .4 | 14 | 3.40 | <1 | 124 | 103 | 21.1 | 5.67 | .3 | 6.4 |
| MAY | | | | | | | | | | | | | |
| 01... | 50.1 | 3.05 | 12.4 | .5 | 16 | 3.18 | 2 | 152 | 127 | 26.1 | 7.14 | .3 | .6r |
| MAY | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 51.2 | 3.10 | 12.6 | .5 | 16 | 3.52 | 1 | 152 | 127 | 26.2 | 6.79 | .5 | .9r |
| AUG | | | | | | | | | | | | | |
| 01... | 37.9 | 3.09 | 13.1 | .6 | 20 | 3.68 | 1 | 116 | 95 | 23.5 | 8.41 | .4 | 6.3 |
| AUG | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 37.1 | 3.04 | 12.8 | .5 | 20 | 3.50 | 1 | 114 | 94 | 23.7 | 8.80 | .4 | 6.3 |

08063050 Navarro Mills Lake near Dawson, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

| Date | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | BENZENE TOTAL (UG/L) (34030) | ETHYL-BENZENE TOTAL (UG/L) (34371) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 157 | 1.17 | .036 | 1.20 | .04 | .33 | .38 | .019 | E.01 | <10 | E.9n | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13-13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 156 | 1.16 | .035 | 1.20 | .04 | .33 | .37 | .019 | E.01 | <10 | E1.8b | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01... | 185 | 1.25 | .014 | 1.27 | <.04 | -- | .34 | .005 | <.02 | <10 | <2.0 | <.2 | <.2 |
| MAY | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 187 | 1.26 | .018 | 1.28 | <.04 | -- | .34 | .007 | <.04 | <10 | E.8n | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | 154 | -- | <.008 | <.05 | E.02 | -- | .27 | .006 | <.02 | <10 | 45.9 | <.2 | <.2 |
| AUG | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 153 | -- | <.008 | E.03 | E.03 | -- | .30 | .007 | <.02 | <10 | 51.9 | -- | -- |

315730096412601 -- Navarro Mills Lk Site AC

| Date | TOLUENE TOTAL (UG/L) (34010) | XYLENE WATER UNFLTRD REC (UG/L) (81551) | METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13-13 | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | 3.58 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01... | <.2 | <.2 | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | <.006 | .036 | .113 | <.005 | 1.32 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | <.2 | <.2 | E.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01-01 | -- | -- | -- | <.006 | .006 | .019 | <.005 | 1.18 | <.050 | <.010 | <.002 | <.041 | <.020 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

| Date | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13-13 | <.005 | <.006 | <.018 | <.003 | E.149 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01-01 | <.005 | <.006 | <.018 | <.003 | E.258 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01-01 | <.005 | <.006 | <.018 | <.003 | E.220 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

315730096412601 -- Navarro Mills Lk Site AC

| Date | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 13-13 | <.035 | <.027 | .038 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 01-01 | <.035 | <.027 | .282 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01-01 | <.035 | <.027 | .155 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08063050 Navarro Mills Lake near Dawson, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315730096412601 -- Navarro Mills Lk Site AC

| Date | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 13-13 | <.010 | <.011 | <.02 | <.004 | <.005 | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01-01 | <.010 | <.011 | <.02 | <.004 | .011 | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 01-01 | <.010 | <.011 | <.02 | <.004 | .007 | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

315706096420201 -- Navarro Mills Lk Site AR

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 13... | 1458 | 1.00 | 275 | 8.0 | 10.5 | 10.6 | 95 |
| 13... | 1500 | 10.0 | 275 | 8.0 | 10.5 | 10.5 | 94 |
| 13... | 1503 | 20.0 | 275 | 7.9 | 10.0 | 10.3 | 92 |
| MAY | | | | | | | |
| 01... | 1342 | 1.00 | 336 | 8.2 | 25.5 | 8.4 | 105 |
| 01... | 1344 | 10.0 | 336 | 8.2 | 25.5 | 8.4 | 105 |
| 01... | 1346 | 20.0 | 339 | 8.1 | 25.0 | 7.7 | 96 |
| AUG | | | | | | | |
| 01... | 1238 | 1.00 | 277 | 8.1 | 30.0 | 6.1 | 82 |
| 01... | 1240 | 10.0 | 278 | 8.0 | 29.5 | 5.7 | 76 |
| 01... | 1242 | 20.0 | 280 | 7.7 | 29.5 | 4.7 | 63 |

315710096431301 -- Navarro Mills Lk Site BC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1521 | .30 | 1.00 | 278 | 8.0 | 10.5 | 10.6 | 95 | E3k | E4k | 120 | 13 | 42.0 |
| 13... | 1528 | -- | 10.0 | 278 | 8.0 | 10.5 | 10.6 | 95 | -- | -- | -- | -- | -- |
| 13... | 1535 | -- | 24.0 | 281 | 7.9 | 9.5 | 10.2 | 90 | -- | -- | 120 | 12 | 42.2 |
| MAY | | | | | | | | | | | | | |
| 01... | 1413 | .27 | 1.00 | 338 | 8.2 | 25.5 | 8.2 | 103 | E3k | <2k | 140 | 10 | 50.5 |
| 01... | 1421 | -- | 10.0 | 338 | 8.2 | 25.0 | 7.8 | 97 | -- | -- | -- | -- | -- |
| 01... | 1429 | -- | 24.0 | 344 | 7.7 | 23.0 | 5.3 | 63 | -- | -- | 140 | 8 | 50.9 |
| AUG | | | | | | | | | | | | | |
| 01... | 1258 | .44 | 1.00 | 275 | 8.0 | 29.5 | 5.9 | 79 | <2k | E2k | 100 | 10 | 36.9 |
| 01... | 1303 | -- | 10.0 | 279 | 7.8 | 29.0 | 5.1 | 68 | -- | -- | -- | -- | -- |
| 01... | 1308 | -- | 23.0 | 281 | 7.6 | 29.0 | 4.3 | 57 | -- | -- | 110 | 9 | 37.1 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315710096431301 -- Navarro Mills Lk Site BC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 2.58 | 9.73 | .4 | 15 | 3.34 | <1 | 125 | 104 | 21.4 | 5.83 | .3 | 6.1 | 159 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 2.59 | 9.69 | .4 | 15 | 3.32 | <1 | 126 | 105 | 21.4 | 6.10 | .3 | 6.1 | 160 |
| MAY | | | | | | | | | | | | | |
| 01... | 3.05 | 12.4 | .5 | 16 | 3.22 | 2 | 154 | 129 | 26.2 | 6.94 | .3 | .5 | 186 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 3.04 | 12.3 | .5 | 16 | 3.21 | 1 | 159 | 132 | 25.6 | 6.75 | .4 | 2.2 | 189 |
| AUG | | | | | | | | | | | | | |
| 01... | 3.04 | 12.7 | .5 | 20 | 3.55 | 1 | 114 | 94 | 23.7 | 8.50 | .4 | 5.9 | 151 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 3.01 | 12.8 | .5 | 20 | 3.57 | 1 | 116 | 96 | 23.8 | 8.72 | .4 | 6.1 | 153 |

315710096431301 -- Navarro Mills Lk Site BC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | |
| 13... | 1.32 | .061 | 1.38 | E.02 | -- | .35 | .019 | <.02 | <10 | <2.0 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 1.37 | .079 | 1.45 | E.03 | -- | .35 | .017 | E.01 | <10 | E1.2n |
| MAY | | | | | | | | | | |
| 01... | 1.23 | .013 | 1.24 | <.04 | -- | .32 | E.004 | <.04 | <10 | <2.0 |
| 01... | 1.24 | .014 | 1.25 | <.04 | -- | .32 | .005 | <.02 | <10 | E.8n |
| 01... | 1.24 | .041 | 1.28 | <.04 | -- | .35 | .006 | <.04 | <10 | <2.0 |
| AUG | | | | | | | | | | |
| 01... | -- | <.008 | <.05 | <.04 | -- | .22 | E.003 | <.02 | <10 | E2.8 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | -- | E.004 | <.05 | .07 | .24 | .31 | .007 | <.02 | <10 | 36.6 |

315642096444401 -- Navarro Mills Lk Site CC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1550 | .27 | 1.00 | 288 | 8.0 | 10.0 | 10.8 | 96 | E7k | E3k | 120 | 14 | 43.5 |
| 13... | 1556 | -- | 10.0 | 288 | 8.0 | 9.5 | 10.7 | 94 | -- | -- | -- | -- | -- |
| 13... | 1602 | -- | 16.0 | 289 | 8.0 | 9.0 | 10.5 | 91 | -- | -- | 120 | 16 | 43.8 |
| MAY | | | | | | | | | | | | | |
| 01... | 1456 | .26 | 1.00 | 344 | 8.2 | 25.5 | 8.3 | 104 | E3k | <2k | 140 | 12 | 51.9 |
| 01... | 1502 | -- | 10.0 | 344 | 8.2 | 25.5 | 8.3 | 104 | -- | -- | -- | -- | -- |
| 01... | 1507 | -- | 15.0 | 344 | 8.2 | 25.5 | 8.4 | 105 | -- | -- | 140 | 11 | 52.0 |
| AUG | | | | | | | | | | | | | |
| 01... | 1324 | .37 | 1.00 | 281 | 8.3 | 30.0 | 7.2 | 97 | <2k | E2k | 110 | 10 | 37.1 |
| 01... | 1332 | -- | 14.0 | 281 | 8.2 | 29.0 | 6.2 | 82 | -- | -- | 110 | 9 | 37.7 |

08063050 Navarro Mills Lake near Dawson, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315642096444401 -- Navarro Mills Lk Site CC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 2.65 | 10.0 | .4 | 15 | 3.35 | 1 | 126 | 106 | 22.3 | 6.03 | .3 | 6.2 | 166 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 2.66 | 10.1 | .4 | 15 | 3.46 | <1 | 127 | 106 | 22.7 | 6.00 | .3 | 6.4 | 167 |
| MAY | | | | | | | | | | | | | |
| 01... | 3.07 | 12.2 | .4 | 15 | 3.54 | 2 | 156 | 131 | 26.2 | 6.82 | .3 | .8 | 188 |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 3.07 | 12.1 | .4 | 15 | 3.44 | 2 | 156 | 131 | 26.1 | 6.86 | .3 | .8 | 189 |
| AUG | | | | | | | | | | | | | |
| 01... | 3.02 | 12.7 | .5 | 20 | 3.55 | 1 | 114 | 96 | 24.2 | 8.81 | .4 | 5.7 | 153 |
| 01... | 3.04 | 12.9 | .5 | 20 | 3.51 | 1 | 117 | 98 | 23.9 | 8.39 | .4 | 5.7 | 154 |

315642096444401 -- Navarro Mills Lk Site CC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 13... | 1.79 | .191 | 1.98 | <.04 | .36 | .016 | <.02 | <10 | E.9n |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 1.83 | .202 | 2.04 | E.03 | .40 | .017 | <.02 | <10 | E.9n |
| MAY | | | | | | | | | |
| 01... | 1.19 | .012 | 1.20 | <.04 | .32 | .005 | <.02 | <10 | E1.9b |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 1.18 | .012 | 1.20 | <.04 | .30 | .006 | <.04 | <10 | E3.0b |
| AUG | | | | | | | | | |
| 01... | -- | <.008 | <.05 | <.04 | .24 | E.004 | <.02 | <10 | <2.0 |
| 01... | -- | <.008 | <.05 | <.04 | .24 | .005 | <.02 | <10 | <2.0 |

315602096470001 -- Navarro Mills Lk Site DC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1624 | 1.00 | 343 | 8.1 | 11.0 | 11.6 | 106 | 2.73 | .262 | 2.99 | <.04 | .38 | .010 |
| MAY | | | | | | | | | | | | | |
| 01... | 1530 | 1.00 | 344 | 8.1 | 26.5 | 8.0 | 102 | 1.17 | .017 | 1.18 | <.04 | .32 | .007 |
| 01... | 1534 | 3.00 | 344 | 8.1 | 26.5 | 7.9 | 101 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | 1356 | 1.00 | 281 | 8.2 | 29.5 | 6.6 | 88 | -- | <.008 | <.05 | <.04 | .24 | .006 |
| 01... | 1400 | 4.00 | 282 | 8.2 | 29.5 | 6.6 | 88 | -- | -- | -- | -- | -- | -- |

315602096470001 -- Navarro Mills Lk Site DC

| Date | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|
| FEB | | | |
| 13... | <.02 | <10 | E1.2n |
| MAY | | | |
| 01... | <.02 | <10 | E1.1n |
| 01... | -- | -- | -- |
| AUG | | | |
| 01... | <.02 | <10 | <2.0 |
| 01... | -- | -- | -- |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

315706096463201 -- Navarro Mills Lk Site EC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1645 | 1.00 | 299 | 8.2 | 11.0 | 11.5 | 105 | 2.22 | .389 | 2.60 | E.02 | .42 | .015 |
| MAY | | | | | | | | | | | | | |
| 01... | 1556 | 1.00 | 345 | 8.2 | 26.0 | 8.2 | 104 | 1.17 | .021 | 1.19 | <.04 | .33 | .006 |
| 01... | 1601 | 4.00 | 344 | 8.1 | 26.0 | 8.3 | 105 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 01... | 1420 | 1.00 | 296 | 8.3 | 30.0 | 7.1 | 96 | -- | <.008 | E.02 | <.04 | .27 | .005 |
| 01... | 1424 | 3.00 | 296 | 8.3 | 30.0 | 7.2 | 97 | -- | -- | -- | -- | -- | -- |

315706096463201 -- Navarro Mills Lk Site EC

| Date | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|
| FEB | | | |
| 13... | <.02 | E6 | E1.5n |
| MAY | | | |
| 01... | E.01 | <10 | <2.0 |
| 01... | -- | -- | -- |
| AUG | | | |
| 01... | <.02 | <10 | <2.0 |
| 01... | -- | -- | -- |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
k -- Counts outside acceptable range
n -- Below the NDV
r -- Value verified by rerun, same method

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## 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 $mi^2$.

### 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.--No estimated daily discharges. Records fair. Since Mar. 15, 1963, at least 10% of contributing drainage area has been regulated. Flow may be slightly affected at times by discharge from the flood-detention pool of one floodwater-retarding structure. This structure controls runoff from a 1.28 $mi^2$ area below Navarro Mills Lake and above this station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1961-63) prior to completion of Navarro Mills Lake, 181 $ft^3/s$ (131,100 acre-ft/yr)

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1961-63).--Maximum discharge, 25,500 $ft^3/s$, July 3, 1961, gage height, 25.50 ft, from rating curve extended above 14,000 $ft^3/s$; no flow at times.

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.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.90 | 1.7 | 37 | 1720 | 38 | 34 | 64 | 22 | 1.1 | 2.0 | 2.8 | 0.12 |
| 2 | 0.92 | 2.3 | 38 | 1700 | 38 | 34 | 65 | 11 | 1.1 | 1.9 | 0.42 | 0.12 |
| 3 | 0.98 | 0.78 | 39 | 1670 | 38 | 34 | 173 | 1.1 | 1.0 | 2.0 | 0.27 | 0.13 |
| 4 | 1.2 | 2.3 | 39 | 1630 | 38 | 34 | 352 | 0.95 | 1.1 | 1.7 | 0.19 | 0.14 |
| 5 | 0.88 | 2.1 | 39 | 1600 | 50 | 34 | 302 | 0.91 | 1.0 | 1.5 | 0.12 | 0.13 |
| 6 | 0.76 | 1.6 | 39 | 1570 | 73 | 34 | 260 | 0.93 | 0.98 | 1.6 | 0.10 | 0.14 |
| 7 | 0.86 | 1.6 | 39 | 1550 | 42 | 34 | 261 | 0.88 | 1.0 | 1.6 | 0.09 | 0.20 |
| 8 | 0.90 | 1.6 | 38 | 1520 | 446 | 17 | 203 | 0.86 | 1.0 | 1.6 | 0.09 | 0.29 |
| 9 | 0.84 | 1.4 | 38 | 1480 | 757 | 1.7 | 3.1 | 0.85 | 1.0 | 1.7 | 0.10 | 0.31 |
| 10 | 0.79 | 0.82 | 37 | 1450 | 747 | 1.6 | 2.2 | 0.82 | 1.0 | 1.5 | 0.16 | 0.28 |
| 11 | 0.82 | 1.2 | 38 | 1160 | 737 | 1.6 | 2.0 | 0.84 | 1.1 | 1.5 | 0.16 | 0.24 |
| 12 | 1.0 | 1.2 | 38 | 724 | 612 | 1.6 | 137 | 0.84 | 1.0 | 1.5 | 0.15 | 0.24 |
| 13 | 1.4 | 1.5 | 38 | 720 | 348 | 1.6 | 247 | 0.89 | 1.1 | 1.5 | 0.13 | 0.24 |
| 14 | 0.78 | 1.4 | 37 | 541 | 260 | 1.7 | 249 | 0.83 | 1.1 | 1.5 | 0.00 | 0.24 |
| 15 | 0.70 | 1.3 | 59 | 196 | 108 | 1.6 | 250 | 0.88 | 1.0 | 1.5 | 0.00 | 0.23 |
| 16 | 0.63 | 1.6 | 1180 | 39 | 72 | 1.5 | 250 | 0.86 | 1.2 | 5.9 | 0.0 | 0.22 |
| 17 | 1.0 | 1.5 | 239 | 38 | 72 | 1.6 | 250 | 1.3 | 1.1 | 4.2 | 0.0 | 0.24 |
| 18 | 0.70 | 1.6 | 88 | 38 | 72 | 1.7 | 249 | 1.1 | 1.1 | 2.0 | 0.0 | 0.24 |
| 19 | 0.70 | 2.0 | 82 | 38 | 72 | 1.8 | 249 | 0.90 | 1.4 | 87 | 0.03 | 0.41 |
| 20 | 0.69 | 2.0 | 65 | 38 | 72 | 3.1 | 247 | 0.93 | 1.4 | 181 | 0.03 | 0.33 |
| 21 | 0.68 | 5.4 | 57 | 37 | 72 | 2.1 | 246 | 1.6 | 1.3 | 181 | 0.04 | 0.29 |
| 22 | 0.71 | 38 | 59 | 38 | 72 | 1.7 | 175 | 1.7 | 1.2 | 127 | 0.04 | 0.29 |
| 23 | 0.75 | 39 | 61 | 38 | 72 | 1.6 | 116 | 1.5 | 1.3 | 31 | 0.05 | 0.27 |
| 24 | 1.2 | 39 | 61 | 38 | 72 | 1.6 | 117 | 1.1 | 1.3 | 7.4 | 0.05 | 0.26 |
| 25 | 0.83 | 39 | 62 | 38 | 72 | 1.6 | 62 | 1.1 | 1.2 | 6.9 | 0.06 | 0.25 |
| 26 | 0.78 | 39 | 63 | 39 | 58 | 1.5 | 20 | 1.2 | 1.3 | 6.4 | 0.08 | 0.26 |
| 27 | 0.75 | 39 | 974 | 39 | 34 | 23 | 20 | 1.5 | 1.4 | 6.0 | 0.16 | 0.26 |
| 28 | 0.81 | 39 | 1830 | 39 | 34 | 64 | 20 | 2.1 | 1.4 | 5.5 | 0.14 | 0.27 |
| 29 | 1.2 | 39 | 1810 | 39 | --- | 64 | 20 | 16 | 1.4 | 5.3 | 0.11 | 0.29 |
| 30 | 2.0 | 39 | 1790 | 39 | --- | 64 | 21 | 1.7 | 1.6 | 5.0 | 0.12 | 0.28 |
| 31 | 2.2 | --- | 1760 | 39 | --- | 64 | --- | 1.2 | --- | 4.6 | 0.12 | --- |
| TOTAL | 29.36 | 386.90 | 10774 | 19845 | 5178 | 565.2 | 4632.3 | 80.37 | 35.18 | 690.8 | 5.81 | 7.21 |
| MEAN | 0.947 | 12.90 | 347.5 | 640.2 | 184.9 | 18.23 | 154.4 | 2.593 | 1.173 | 22.28 | 0.187 | 0.240 |
| MAX | 2.2 | 39 | 1830 | 1720 | 757 | 64 | 352 | 22 | 1.6 | 181 | 2.8 | 0.41 |
| MIN | 0.63 | 0.78 | 37 | 37 | 34 | 1.5 | 2.0 | 0.82 | 0.98 | 1.5 | 0.00 | 0.12 |
| AC-FT | 58 | 767 | 21370 | 39360 | 10270 | 1120 | 9190 | 159 | 70 | 1370 | 12 | 14 |

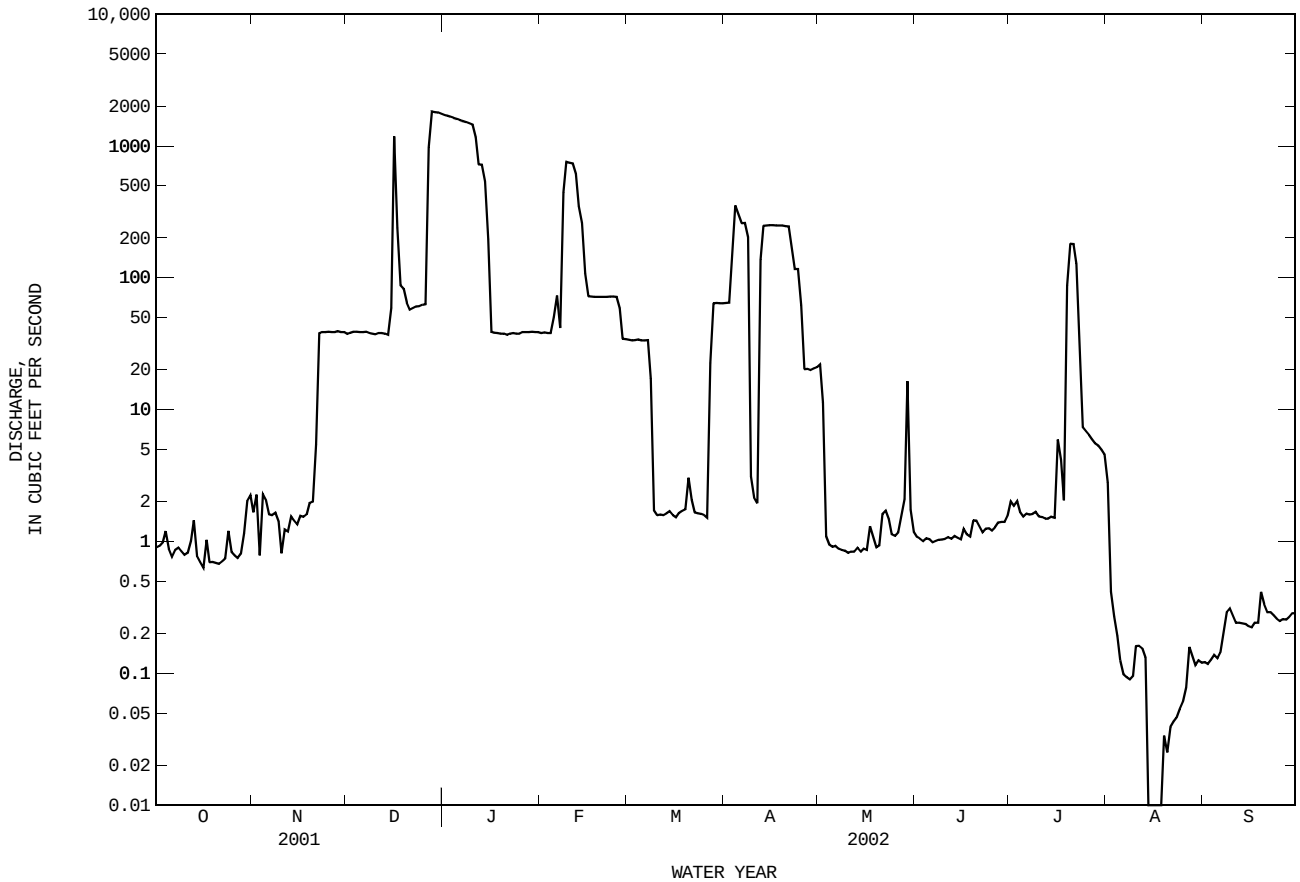
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002z, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 45.55 | 141.4 | 157.7 | 202.0 | 199.0 | 216.1 | 225.8 | 262.5 | 327.3 | 94.05 | 25.74 | 19.33 |
| MAX | 400 | 1366 | 1050 | 1288 | 1090 | 971 | 992 | 980 | 1356 | 773 | 541 | 269 |
| (WY) | 1974 | 1968 | 1975 | 1998 | 1992 | 1970 | 1992 | 1980 | 1975 | 1968 | 1995 | 1974 |
| MIN | 0.000 | 0.000 | 0.000 | 0.058 | 0.066 | 0.22 | 0.023 | 0.019 | 0.000 | 0.000 | 0.068 | 0.005 |
| (WY) | 1964 | 1964 | 1964 | 1964 | 1964 | 1971 | 1964 | 1964 | 1964 | 1970 | 1981 | 1997 |

08063100 Richland Creek near Dawson, TX--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1964 - 2002z | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 83518.35 | | 42230.13 | | | |
| ANNUAL MEAN | 228.8 | | 115.7 | | 159.2 | |
| HIGHEST ANNUAL MEAN | | | | | 561 | 1968 |
| LOWEST ANNUAL MEAN | | | | | 0.20 | 1964 |
| HIGHEST DAILY MEAN | 2110 | Mar 22 | 1830 | Dec 28 | 2620 | Aug 4 1995 |
| LOWEST DAILY MEAN | 0.25 | Jul 12 | 0.00 | Aug 14 | 0.00 | Oct 1 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 0.27 | Jul 7 | 0.01 | Aug 14 | 0.00 | Oct 1 1963 |
| MAXIMUM PEAK FLOW | | | 2110 | Dec 16 | 3850 | Nov 24 1974 |
| MAXIMUM PEAK STAGE | | | 18.54 | Dec 16 | 22.85 | Nov 24 1974 |
| ANNUAL RUNOFF (AC-FT) | 165700 | | 83760 | | 115300 | |
| 10 PERCENT EXCEEDS | 874 | | 249 | | 666 | |
| 50 PERCENT EXCEEDS | 5.0 | | 1.7 | | 1.8 | |
| 90 PERCENT EXCEEDS | 0.35 | | 0.23 | | 0.04 | |

z Period of regulated streamflow.



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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 1400 | 347 | 286 | 8.1 | 10.5 | 10.0 | 91 | 110 | 13 | 41.5 | 2.57 | 9.24 | .4 |
| MAY | | | | | | | | | | | | | |
| 01... | 1345 | 24 | 346 | 8.2 | 23.0 | 8.6 | 101 | 150 | 11 | 53.5 | 3.26 | 13.6 | .5 |
| AUG | | | | | | | | | | | | | |
| 01... | 1315 | 2.3 | 311 | 7.6 | 28.5 | 5.2 | 67 | 110 | 14 | 39.2 | 3.27 | 14.3 | .6 |

| Date | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | 15 | 3.34 | <1 | 124 | 103 | 19.1 | 5.74 | .3 | 5.70 | 160 | 154 | 26 | 1.20 |
| MAY | | | | | | | | | | | | | |
| 01... | 16 | 3.39 | 1 | 163 | 136 | 28.0 | 10.2 | .3 | 1.25 | 207 | 201 | 46 | 1.22 |
| AUG | | | | | | | | | | | | | |
| 01... | 21 | 3.40 | <1 | 118 | 98 | 25.6 | 9.82 | .4 | 6.32 | 168 | 161 | <10 | -- |

| Date | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | .029 | 1.23 | .05 | .33 | .38 | .022 | E.01 | 5.4 | 1 | .19 | 4 | 39 | <.06 |
| MAY | | | | | | | | | | | | | |
| 01... | .016 | 1.24 | <.04 | -- | .40 | .010 | <.04 | 5.3 | 4 | .21 | 3 | 56 | <.06 |
| AUG | | | | | | | | | | | | | |
| 01... | E.004 | .05 | E.03 | -- | .35 | .009 | <.02 | 5.8 | 2 | .29 | 7 | 83 | <.06 |

| Date | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 13... | <.04 | <.8 | .13 | 1.3 | E8 | <.08 | 5.8 | .04 | .4 | .99 | <2 | <1 | 2 |
| MAY | | | | | | | | | | | | | |
| 01... | <.04 | <.8 | .20 | 3.7 | <10 | E.07 | 3.6 | .12 | .5 | 2.12 | <2 | <1 | 1 |
| AUG | | | | | | | | | | | | | |
| 01... | .20 | <.8 | .14 | .7 | <10 | E.05 | 5.3 | .02 | .6 | 1.26 | <2 | <1 | 1 |

| Date | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|
| FEB | |
| 13... | .70 |
| MAY | |
| 01... | .90 |
| AUG | |
| 01... | .69 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

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## 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 mi northwest of Ennis.

DRAINAGE AREA.--30.0 $mi^2$.

PERIOD OF RECORD.--Apr. 1999 to current year.

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

REMARKS.--No estimated daily contents. 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. Conservation pool storage is 10,799 acre-ft. Data regarding the dam is given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 543.0 |
| Crest of spillway | 531.0 |

COOPERATION.--Capacity table was furnished by the Texas Water Development Board.

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.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,770 acre-ft, Mar. 30, elevation, 531.27 ft; minimum contents, 12,380 acre-ft, Dec. 11, 13, 14, 15, elevation, 529.75 ft.

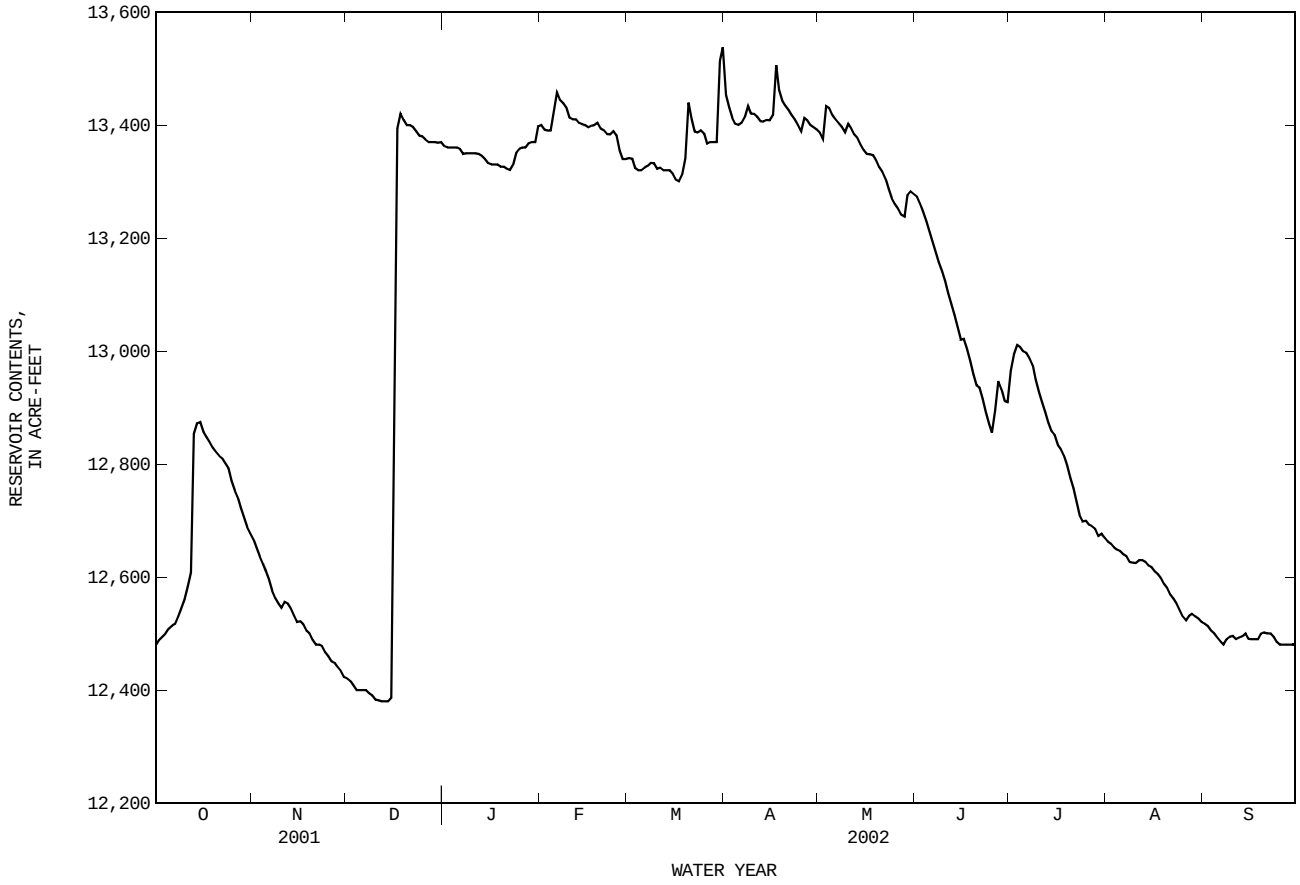
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12480 | 12670 | 12420 | 13360 | 13400 | 13340 | 13450 | 13390 | 13270 | 12960 | 12660 | 12520 |
| 2 | 12490 | 12650 | 12420 | 13360 | 13390 | 13340 | 13430 | 13380 | 13260 | 12990 | 12660 | 12510 |
| 3 | 12500 | 12640 | 12410 | 13360 | 13390 | 13320 | 13410 | 13430 | 13250 | 13010 | 12650 | 12510 |
| 4 | 12500 | 12620 | 12400 | 13360 | 13390 | 13320 | 13400 | 13430 | 13230 | 13010 | 12650 | 12500 |
| 5 | 12510 | 12610 | 12400 | 13360 | 13420 | 13320 | 13400 | 13420 | 13210 | 13000 | 12650 | 12490 |
| 6 | 12510 | 12600 | 12400 | 13360 | 13460 | 13320 | 13400 | 13410 | 13190 | 13000 | 12640 | 12490 |
| 7 | 12520 | 12580 | 12400 | 13350 | 13440 | 13330 | 13410 | 13400 | 13180 | 12990 | 12640 | 12480 |
| 8 | 12530 | 12560 | 12390 | 13350 | 13440 | 13330 | 13430 | 13400 | 13160 | 12970 | 12630 | 12490 |
| 9 | 12540 | 12550 | 12390 | 13350 | 13430 | 13330 | 13420 | 13390 | 13140 | 12950 | 12630 | 12490 |
| 10 | 12560 | 12550 | 12380 | 13350 | 13410 | 13320 | 13420 | 13400 | 13120 | 12930 | 12620 | 12500 |
| 11 | 12580 | 12560 | 12380 | 13350 | 13410 | 13320 | 13410 | 13390 | 13100 | 12910 | 12630 | 12490 |
| 12 | 12610 | 12550 | 12380 | 13350 | 13410 | 13320 | 13410 | 13380 | 13080 | 12890 | 12630 | 12490 |
| 13 | 12850 | 12540 | 12380 | 13350 | 13400 | 13320 | 13410 | 13380 | 13060 | 12870 | 12630 | 12500 |
| 14 | 12870 | 12530 | 12380 | 13340 | 13400 | 13320 | 13410 | 13370 | 13040 | 12860 | 12620 | 12500 |
| 15 | 12870 | 12520 | 12390 | 13330 | 13400 | 13310 | 13410 | 13360 | 13020 | 12850 | 12620 | 12490 |
| 16 | 12860 | 12520 | 13110 | 13330 | 13400 | 13300 | 13420 | 13350 | 13020 | 12830 | 12610 | 12490 |
| 17 | 12850 | 12520 | 13390 | 13330 | 13400 | 13300 | 13510 | 13350 | 13000 | 12830 | 12600 | 12490 |
| 18 | 12840 | 12500 | 13420 | 13330 | 13400 | 13310 | 13460 | 13350 | 12980 | 12820 | 12600 | 12490 |
| 19 | 12830 | 12500 | 13410 | 13330 | 13400 | 13340 | 13440 | 13340 | 12960 | 12800 | 12590 | 12500 |
| 20 | 12820 | 12490 | 13400 | 13330 | 13390 | 13440 | 13430 | 13330 | 12940 | 12780 | 12580 | 12500 |
| 21 | 12810 | 12480 | 13400 | 13320 | 13390 | 13410 | 13430 | 13320 | 12940 | 12760 | 12570 | 12500 |
| 22 | 12810 | 12480 | 13400 | 13320 | 13380 | 13390 | 13420 | 13300 | 12920 | 12730 | 12560 | 12500 |
| 23 | 12800 | 12480 | 13390 | 13330 | 13380 | 13390 | 13410 | 13290 | 12890 | 12710 | 12550 | 12490 |
| 24 | 12790 | 12470 | 13380 | 13350 | 13390 | 13390 | 13400 | 13270 | 12870 | 12700 | 12540 | 12490 |
| 25 | 12770 | 12460 | 13380 | 13360 | 13380 | 13380 | 13390 | 13260 | 12860 | 12700 | 12530 | 12480 |
| 26 | 12750 | 12450 | 13370 | 13360 | 13350 | 13370 | 13410 | 13250 | 12890 | 12690 | 12520 | 12480 |
| 27 | 12740 | 12450 | 13370 | 13360 | 13340 | 13370 | 13410 | 13240 | 12950 | 12690 | 12530 | 12480 |
| 28 | 12720 | 12440 | 13370 | 13370 | 13340 | 13370 | 13400 | 13240 | 12930 | 12690 | 12530 | 12480 |
| 29 | 12710 | 12430 | 13370 | 13370 | --- | 13370 | 13400 | 13280 | 12910 | 12670 | 12530 | 12480 |
| 30 | 12690 | 12420 | 13370 | 13370 | --- | 13510 | 13390 | 13280 | 12910 | 12680 | 12530 | 12480 |
| 31 | 12680 | --- | 13370 | 13400 | --- | 13540 | --- | 13280 | --- | 12670 | 12520 | --- |
| MEAN | 12690 | 12530 | 12900 | 13350 | 13400 | 13360 | 13420 | 13340 | 13040 | 12840 | 12600 | 12490 |
| MAX | 12870 | 12670 | 13420 | 13400 | 13460 | 13540 | 13510 | 13430 | 13270 | 13010 | 12660 | 12520 |
| MIN | 12480 | 12420 | 12380 | 13320 | 13340 | 13300 | 13390 | 13240 | 12860 | 12670 | 12520 | 12480 |
| (+) | 530.18 | 529.85 | 530.87 | 530.90 | 530.84 | 531.04 | 530.89 | 530.78 | 530.41 | 530.17 | 530.02 | 529.96 |
| (@) | +200 | -260 | +950 | +30 | -60 | +200 | -150 | -110 | -370 | -240 | -150 | -40 |

CAL YR 2001 MAX 13420 MIN 11960 (@) +890
WTR YR 2002 MAX 13540 MIN 12380 (@) 0

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08063600 Lake Waxahachie near Waxahachie, TX--Continued



## 08063685 Waxahachie Creek near Waxahachie, TX

LOCATION.--Lat 32°18′27", long 96°44′19", Ellis County, Hydrologic Unit 12030109, on county road bridge, over center of channel at downstream side of bridge, 1.0 mi upstream from normal pool of Bardwell Lake, and 8.4 mi southeast of Waxahachie.

DRAINAGE AREA.-- 111 $mi^2$.

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1980 to Aug. 1982, Oct. 1985 to June 1987, and Oct. 1998 to current year.
BIOCHEMICAL DATA: Oct. 1980 to Aug. 1982, Oct. 1985 to June 1987, and Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1010 | 43 | 730 | 8.2 | 7.0 | 11.2 | 93 | -- | 250 | 33 | 95.0 | 2.40 | 60.9 |
| APR | | | | | | | | | | | | | |
| 10... | 1315 | -- | 517 | 8.0 | 17.8 | 8.3 | 87 | 3.1 | 200 | 25 | 78.3 | 2.10 | 24.5 |
| 24... | 1100 | 113 | 554 | 8.2 | 22.0 | 6.8 | 79 | <2.0 | 220 | 16 | 83.9 | 2.12 | 26.2 |
| AUG | | | | | | | | | | | | | |
| 07... | 0845 | 10 | 1120 | 7.9 | 25.0 | 5.9 | 72 | <2.0 | 210 | 42 | 81.3 | 2.65 | 129 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 2 | 34 | 5.74 | 3 | 256 | 215 | 121 | 27.6 | .4 | 5.01 | 470 | 457 | <10 |
| APR | | | | | | | | | | | | | |
| 10... | .7 | 20 | 3.08 | 2 | 215 | 179 | 51.8 | 16.1 | .3 | 5.61 | 306 | 294 | 63 |
| 24... | .8 | 20 | 3.77 | 2 | 242 | 202 | 53.5 | 15.8 | .3 | 7.07 | 343 | 319 | 27 |
| AUG | | | | | | | | | | | | | |
| 07... | 4 | 55 | 12.1 | 1 | 207 | 172 | 229 | 84.6 | .5 | 7.40 | 713 | 674 | <10 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | -- | E.005 | 2.24 | <.04 | -- | .24 | .020 | E.01 | -- | 3.3 | 1 | <.05 | <2 |
| APR | | | | | | | | | | | | | |
| 10... | 1.01 | .027 | 1.03 | .07 | .29 | .36 | .019 | E.01 | -- | 6.6 | 2 | .21 | E2 |
| 24... | 1.21 | .018 | 1.22 | E.03 | -- | .38 | .026 | E.01 | -- | 3.9 | 5 | .30 | E2 |
| AUG | | | | | | | | | | | | | |
| 07... | 5.24 | .022 | 5.26 | <.04 | -- | .56 | .120 | .09 | .267 | 6.8 | 3 | .35 | 3 |

| Date | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 68 | <.06 | .04 | <.8 | .45 | 1.5 | E6 | .13 | 37.5 | <.01 | 15.7 | 1.43 | <2 |
| APR | | | | | | | | | | | | | |
| 10... | 62 | <.06 | E.03 | <.8 | .30 | 1.1 | <10 | <.08 | 2.3 | -- | 8.9 | 2.40 | <2 |
| 24... | 66 | <.1 | .06 | <.8 | .37 | 1.4 | <10 | .19 | 13.1 | <.01 | 8.1 | 2.12 | <2 |
| AUG | | | | | | | | | | | | | |
| 07... | 96 | <.06 | .21 | E.5 | 1.04 | 3.0 | <10 | .26 | 19.5 | .02 | 60.9 | 4.64 | <2 |

08063685 Waxahachie Creek near Waxahachie, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|---|---|
| FEB | | | |
| 28... | <1 | 6 | 1.20 |
| APR | | | |
| 10... | <1 | 2 | 1.13 |
| 24... | <1 | 7 | 1.14 |
| AUG | | | |
| 07... | <1 | 15 | .59 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

## 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 $mi^2$.

### WATER-CONTENT RECORDS

PERIOD OF RECORD.--Nov. 1965 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Bardwell Reservoir".

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.--No estimated daily contents. 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. Capacity table is based on a 1999 TWDB survey. Runoff from 81.4 mi above Bardwell Lake is modified by Lake Waxahachie (station 08063600, conservation pool storage 10,799 acre-ft). 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 $mi^2$ in the Chambers Creek watershed. Conservation pool storage is 46,122 acre-ft. 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 |
| Top of conservation pool | 421.0 |
| Lowest gated outlet (invert) | 391.0 |

COOPERATION.--Capacity tables furnished by the U.S. Army Corps of Engineers.

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, based on Oct. 1976 capacity table.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 68,160 acre-ft, Dec. 26, elevation, 426.55 ft; minimum contents, 41,090 acre-ft, Sept. 30, elevation, 419.24 ft.

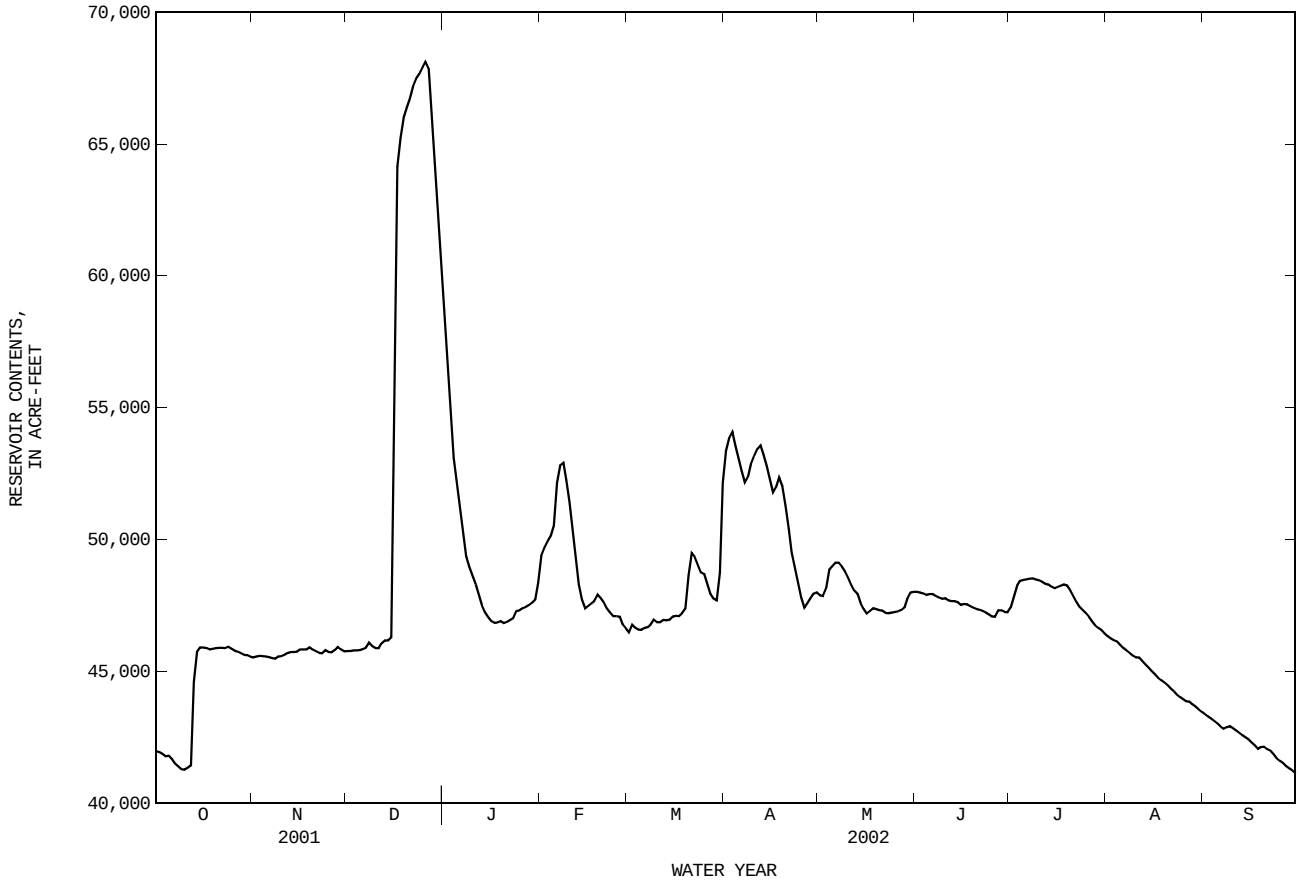
RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 41960 | 45520 | 45760 | 58680 | 49380 | 46470 | 53350 | 47880 | 48010 | 47420 | 46330 | 43380 |
| 2 | 41920 | 45550 | 45760 | 56840 | 49680 | 46750 | 53840 | 47850 | 47990 | 47810 | 46240 | 43290 |
| 3 | 41860 | 45580 | 45790 | 54880 | 49930 | 46650 | 54070 | 48140 | 47950 | 48240 | 46170 | 43200 |
| 4 | 41770 | 45570 | 45790 | 53090 | 50110 | 46580 | 53580 | 48860 | 47890 | 48420 | 46120 | 43110 |
| 5 | 41790 | 45550 | 45800 | 52150 | 50510 | 46570 | 53060 | 48990 | 47920 | 48450 | 45990 | 43020 |
| 6 | 41650 | 45530 | 45830 | 51220 | 52140 | 46630 | 52590 | 49110 | 47920 | 48480 | 45870 | 42910 |
| 7 | 41490 | 45490 | 45890 | 50240 | 52800 | 46670 | 52150 | 49110 | 47850 | 48510 | 45780 | 42810 |
| 8 | 41380 | 45470 | 46080 | 49360 | 52910 | 46770 | 52380 | 48960 | 47790 | 48520 | 45690 | 42880 |
| 9 | 41290 | 45550 | 45940 | 48940 | 52250 | 46960 | 52860 | 48790 | 47740 | 48480 | 45580 | 42910 |
| 10 | 41260 | 45570 | 45870 | 48620 | 51400 | 46850 | 53150 | 48540 | 47760 | 48450 | 45520 | 42840 |
| 11 | 41340 | 45610 | 45870 | 48290 | 50370 | 46850 | 53430 | 48290 | 47690 | 48390 | 45520 | 42760 |
| 12 | 41410 | 45680 | 46060 | 47930 | 49310 | 46950 | 53560 | 48060 | 47650 | 48320 | 45380 | 42670 |
| 13 | 44580 | 45730 | 46170 | 47520 | 48290 | 46930 | 53220 | 47940 | 47660 | 48280 | 45250 | 42570 |
| 14 | 45730 | 45730 | 46160 | 47240 | 47700 | 46950 | 52790 | 47570 | 47630 | 48210 | 45140 | 42490 |
| 15 | 45890 | 45740 | 46290 | 47040 | 47380 | 47070 | 52290 | 47360 | 47510 | 48140 | 45010 | 42410 |
| 16 | 45900 | 45820 | 56640 | 46890 | 47470 | 47100 | 51780 | 47180 | 47550 | 48190 | 44890 | 42280 |
| 17 | 45870 | 45820 | 64130 | 46830 | 47570 | 47090 | 51990 | 47280 | 47540 | 48240 | 44760 | 42180 |
| 18 | 45820 | 45820 | 65230 | 46840 | 47670 | 47200 | 52340 | 47390 | 47460 | 48290 | 44660 | 42050 |
| 19 | 45850 | 45900 | 66010 | 46890 | 47900 | 47370 | 52010 | 47350 | 47400 | 48250 | 44580 | 42120 |
| 20 | 45880 | 45810 | 66390 | 46830 | 47770 | 48630 | 51270 | 47320 | 47360 | 48080 | 44490 | 42130 |
| 21 | 45880 | 45760 | 66710 | 46870 | 47600 | 49470 | 50410 | 47290 | 47330 | 47840 | 44350 | 42030 |
| 22 | 45880 | 45690 | 67160 | 46930 | 47380 | 49350 | 49520 | 47210 | 47280 | 47630 | 44240 | 41980 |
| 23 | 45880 | 45670 | 67470 | 47000 | 47220 | 49040 | 48930 | 47200 | 47220 | 47440 | 44130 | 41840 |
| 24 | 45920 | 45800 | 67660 | 47280 | 47080 | 48730 | 48370 | 47220 | 47150 | 47310 | 44030 | 41700 |
| 25 | 45840 | 45720 | 67870 | 47300 | 47090 | 48680 | 47790 | 47250 | 47070 | 47200 | 43940 | 41600 |
| 26 | 45770 | 45720 | 68110 | 47380 | 47060 | 48320 | 47410 | 47270 | 47060 | 47050 | 43860 | 41520 |
| 27 | 45740 | 45800 | 67860 | 47430 | 46770 | 47940 | 47570 | 47310 | 47300 | 46890 | 43850 | 41390 |
| 28 | 45680 | 45920 | 66190 | 47500 | 46630 | 47750 | 47760 | 47410 | 47310 | 46740 | 43750 | 41310 |
| 29 | 45620 | 45820 | 64420 | 47590 | --- | 47680 | 47940 | 47750 | 47240 | 46640 | 43660 | 41240 |
| 30 | 45610 | 45750 | 62470 | 47720 | --- | 48730 | 47980 | 47990 | 47230 | 46560 | 43550 | 41130 |
| 31 | 45540 | --- | 60560 | 48350 | --- | 52150 | --- | 48010 | --- | 46440 | 43450 | --- |
| TOTAL | 1368000 | 1370690 | 1733940 | 1517670 | 1369370 | 1476880 | 1539390 | 1483880 | 1426460 | 1482910 | 1391780 | 1269750 |
| MEAN | 44130 | 45690 | 55930 | 48960 | 48910 | 47640 | 51310 | 47870 | 47550 | 47840 | 44900 | 42320 |
| MAX | 45920 | 45920 | 68110 | 58680 | 52910 | 52150 | 54070 | 49110 | 48010 | 48520 | 46330 | 43380 |
| MIN | 41260 | 45470 | 45760 | 46830 | 46630 | 46470 | 47410 | 47180 | 47060 | 46440 | 43450 | 41130 |
| (+) | 420.70 | 420.77 | 424.71 | 421.52 | 421.04 | 422.54 | 421.42 | 421.42 | 421.21 | 420.99 | 420.02 | 419.25 |
| (@) | +3510 | +210 | +14810 | -12210 | -1720 | +5520 | -4170 | +30 | -780 | -790 | -2990 | -2320 |

CAL YR 2001 MAX 106900 MIN 41090 (@) +9790
WTR YR 2002 MAX 68110 MIN 41130 (@) -900

(+) Elevation, in feet, at end of month.
(@) Change in Contents, in acre-feet.

08063700 Bardwell Lake near Ennis, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1998 to current year.
BIOCHEMICAL DATA: Oct. 1998 to current year.
PESTICIDE DATA: July 1999 to current year.

REMARKS.--Pesticide samples are composited from discrete samples collected at the surface, middle, and bottom of the reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

| Date | Time | RESER-VOIR STORAGE (AC-FT) (00054) | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1151 | 46700 | .53 | 1.00 | 326 | 8.1 | 10.0 | 10.7 | 96 | E18k | 23 | 120 | 6 |
| FEB | | | | | | | | | | | | | |
| 28-28 | 1151 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 1156 | -- | -- | 10.0 | 325 | 8.0 | 10.0 | 10.6 | 95 | -- | -- | -- | -- |
| 28... | 1202 | -- | -- | 20.0 | 326 | 8.0 | 10.0 | 10.6 | 95 | -- | -- | -- | -- |
| 28... | 1207 | -- | -- | 30.0 | 328 | 8.0 | 9.5 | 10.3 | 91 | -- | -- | -- | -- |
| 28... | 1212 | -- | -- | 38.0 | 321 | 7.9 | 6.5 | 10.3 | 85 | -- | -- | 120 | 5 |
| APR | | | | | | | | | | | | | |
| 25... | 1227 | 47700 | .55 | 1.00 | 364 | 8.2 | 22.5 | 7.8 | 91 | E1k | E1k | 130 | 14 |
| 25... | 1233 | -- | -- | 10.0 | 364 | 8.2 | 22.0 | 7.7 | 89 | -- | -- | -- | -- |
| 25... | 1239 | -- | -- | 20.0 | 365 | 8.2 | 22.0 | 7.8 | 90 | -- | -- | -- | -- |
| 25... | 1245 | -- | -- | 30.0 | 366 | 7.3 | 18.0 | 1.4 | 15 | -- | -- | -- | -- |
| 25... | 1253 | -- | -- | 39.0 | 369 | 7.2 | 17.0 | .2 | 2 | -- | -- | 140 | 8 |
| AUG | | | | | | | | | | | | | |
| 07... | 1104 | 45800 | .85 | 1.00 | 309 | 8.5 | 30.5 | 8.9 | 121 | <1k | <1k | 92 | 8 |
| AUG | | | | | | | | | | | | | |
| 07-07 | 1104 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 1110 | -- | -- | 10.0 | 311 | 8.3 | 30.0 | 7.6 | 102 | -- | -- | -- | -- |
| 07... | 1115 | -- | -- | 20.0 | 338 | 7.3 | 28.5 | .2 | 3 | -- | -- | -- | -- |
| 07... | 1120 | -- | -- | 30.0 | 349 | 7.1 | 28.0 | .2 | 3 | -- | -- | -- | -- |
| 07... | 1125 | -- | -- | 35.0 | 364 | 7.1 | 27.5 | .3 | 4 | -- | -- | 110 | -- |

321506096382601 -- Bardwell Lk Site AC

| Date | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 43.3 | 2.30 | 21.3 | .9 | 27 | 4.30 | 1 | 134 | 113 | 36.6 | 13.1 | .3 | 5.6 |
| FEB | | | | | | | | | | | | | |
| 28-28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 43.3 | 2.29 | 21.1 | .8 | 27 | 4.18 | 1 | 134 | 112 | 36.6 | 13.4 | .3 | 5.7 |
| APR | | | | | | | | | | | | | |
| 25... | 49.9 | 2.47 | 21.7 | .8 | 25 | 3.98 | 2 | 143 | 121 | 37.2 | 11.7 | .3 | 3.5 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 49.9 | 2.55 | 22.2 | .8 | 26 | 4.07 | 1 | 153 | 126 | 36.2 | 11.8 | .3 | 6.2 |
| AUG | | | | | | | | | | | | | |
| 07... | 32.5 | 2.55 | 25.2 | 1 | 36 | 4.77 | 2 | 98 | 84 | 38.1 | 14.0 | .4 | 5.4 |
| AUG | | | | | | | | | | | | | |
| 07-07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 41.3 | 2.65 | 24.6 | 1 | 31 | 4.57 | 1 | 153 | 126 | 27.6 | 14.9 | .4 | 8.2 |

08063700 Bardwell Lake near Ennis, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

| Date | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | BENZENE TOTAL (UG/L) (34030) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 197 | .65 | .029 | .68 | .06 | .30 | .35 | .006 | <.02 | -- | <10 | E1.0n | -- |
| FEB | | | | | | | | | | | | | |
| 28-28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 198 | .66 | .027 | .69 | .07 | .29 | .37 | .009 | <.02 | -- | <10 | 3.8 | -- |
| APR | | | | | | | | | | | | | |
| 25... | 206 | .66 | .023 | .69 | <.04 | -- | .35 | .005 | <.02 | -- | <10 | E1.2n | <.2 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .67 | .024 | .69 | <.04 | -- | .35 | .005 | <.02 | -- | <10 | 4.1 | -- |
| 25... | -- | -- | <.008 | .98 | <.04 | -- | .35 | .008 | <.02 | -- | <10 | 3.3 | -- |
| 25... | 214 | .86 | .055 | .91 | .05 | .38 | .43 | .011 | <.02 | -- | <10 | 37.0 | -- |
| AUG | | | | | | | | | | | | | |
| 07... | 173 | -- | E.004 | <.05 | <.04 | -- | .29 | .009 | <.02 | -- | <10 | E1.3n | <.2 |
| AUG | | | | | | | | | | | | | |
| 07-07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | <.008 | <.05 | <.04 | -- | .29 | .005 | <.02 | -- | <10 | 6.3 | -- |
| 07... | -- | -- | E.004 | <.05 | .04 | .30 | .34 | .006 | <.02 | -- | 38 | 202 | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 205 | -- | <.008 | <.05 | 1.21 | .32 | 1.5 | .110 | .09 | .264 | 681 | 1950 | -- |

321506096382601 -- Bardwell Lk Site AC

| Date | ETHYL-BENZENE TOTAL (UG/L) (34371) | TOLUENE TOTAL (UG/L) (34010) | XYLENE WATER UNFLTRD REC (UG/L) (81551) | METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 28-28 | -- | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | .517 | <.050 | <.010 | <.002 | <.041 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 25... | <.2 | <.2 | <.2 | <.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | <.2 | <.2 | <.2 | .4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07-07 | -- | -- | -- | -- | <.006 | <.006 | <.004 | <.005 | 1.10 | <.050 | <.010 | <.002 | <.041 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

| Date | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 28-28 | <.020 | <.005 | <.006 | <.018 | <.003 | E.063 | .007 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07-07 | <.020 | <.005 | <.006 | <.018 | <.003 | E.150 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

321506096382601 -- Bardwell Lk Site AC

| Date | LINDANE DIS-SOLVED (UG/L) (39341) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 28-28 | <.004 | <.035 | <.027 | .037 | <.006 | <.002 | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07-07 | <.004 | <.035 | <.027 | .136 | <.006 | <.002 | <.007 | <.003 | <.010 | --u | <.004 | <.022 | <.011 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08063700 Bardwell Lake near Ennis, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321506096382601 -- Bardwell Lk Site AC

| Date | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 28-28 | E.01n | <.010 | <.011 | <.02 | <.004 | .069 | E.02n | <.034 | <.02 | <.005 | <.002 | <.009 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 07-07 | .03 | <.010 | <.011 | <.02 | <.004 | .057 | .03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

321704096393501 -- Bardwell Lk Site BC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1228 | .34 | 1.00 | 329 | 8.1 | 10.0 | 10.8 | 97 | E8k | E1k | 20 | 6 | 43.9 |
| 28... | 1232 | -- | 10.0 | 327 | 8.1 | 10.0 | 10.8 | 97 | -- | -- | -- | -- | -- |
| 28... | 1237 | -- | 22.0 | 324 | 8.1 | 9.5 | 10.7 | 95 | -- | -- | 120 | 2 | 43.2 |
| APR | | | | | | | | | | | | | |
| 25... | 1318 | .46 | 1.00 | 366 | 8.2 | 22.5 | 7.8 | 91 | E2k | E2k | 130 | 8 | 49.5 |
| 25... | 1325 | -- | 10.0 | 366 | 8.2 | 22.5 | 7.7 | 90 | -- | -- | -- | -- | -- |
| 25... | 1332 | -- | 22.0 | 368 | 7.5 | 20.5 | 2.9 | 33 | -- | -- | 130 | 11 | 49.3 |
| AUG | | | | | | | | | | | | | |
| 07... | 1144 | .67 | 1.00 | 317 | 8.5 | 31.0 | 8.1 | 111 | <1k | E6k | 91 | 3 | 32.5 |
| 07... | 1149 | -- | 10.0 | 324 | 7.8 | 29.5 | 5.5 | 73 | -- | -- | -- | -- | -- |
| 07... | 1156 | -- | 21.0 | 344 | 7.3 | 28.5 | .2 | 3 | -- | -- | 100 | -- | 37.9 |

321704096393501 -- Bardwell Lk Site BC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 2.32 | 21.0 | .8 | 27 | 4.07 | 1 | 136 | 113 | 36.8 | 13.8 | .3 | 5.7 | 199 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 2.29 | 21.2 | .9 | 27 | 4.19 | 1 | 138 | 115 | 36.5 | 13.7 | .3 | 5.7 | 199 |
| APR | | | | | | | | | | | | | |
| 25... | 2.42 | 21.5 | .8 | 25 | 4.06 | 2 | 148 | 125 | 36.7 | 11.8 | .3 | 3.6 | 208 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 2.50 | 21.9 | .8 | 26 | 4.10 | <1 | 149 | 123 | 36.6 | 11.6 | .3 | 4.7 | 208 |
| AUG | | | | | | | | | | | | | |
| 07... | 2.42 | 25.8 | 1 | 37 | 4.74 | 2 | 103 | 88 | 38.9 | 14.9 | .4 | 5.4 | 178 |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 2.48 | 25.4 | 1 | 33 | 4.52 | 1 | 128 | 105 | 35.2 | 14.7 | .4 | 6.5 | 192 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321704096393501 -- Bardwell Lk Site BC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | |
| 28... | .66 | .027 | .68 | .05 | .29 | .34 | .008 | <.02 | 31 | E2.2b |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .66 | .027 | .69 | .05 | .29 | .34 | .006 | <.02 | 16 | E1.9b |
| APR | | | | | | | | | | |
| 25... | .64 | .019 | .66 | <.04 | -- | .36 | .004 | <.02 | <10 | <2.0 |
| 25... | .64 | .018 | .66 | <.04 | -- | .37 | .006 | <.02 | 15 | E1.2n |
| 25... | .85 | .014 | .87 | <.04 | -- | .42 | .007 | <.02 | <10 | E2.7b |
| AUG | | | | | | | | | | |
| 07... | -- | E.004 | <.05 | <.04 | -- | .28 | .006 | <.02 | <10 | E1.5 |
| 07... | -- | E.004 | <.05 | <.04 | -- | .29 | .005 | <.02 | <10 | 11.0 |
| 07... | -- | E.004 | <.05 | .15 | .32 | .47 | .009 | <.02 | 393 | 482 |

321830096404001 -- Bardwell Lk Site CC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1250 | .30 | 1.00 | 330 | 8.2 | 9.0 | 11.8 | 103 | .65 | .026 | .68 | E.03 | .34 |
| 28... | 1553 | -- | 4.00 | 334 | 8.2 | 9.0 | 11.7 | 102 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 25... | 1343 | .30 | 1.00 | 363 | 8.3 | 22.5 | 8.3 | 97 | .64 | .021 | .66 | <.04 | .37 |
| 25... | 1347 | -- | 3.00 | 363 | 8.3 | 22.5 | 8.4 | 98 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | 1211 | .34 | 1.00 | 324 | 8.4 | 31.5 | 7.8 | 108 | -- | E.004 | <.05 | <.04 | .29 |
| 07... | 1214 | -- | 4.00 | 326 | 8.4 | 31.0 | 7.6 | 104 | -- | -- | -- | -- | -- |

321830096404001 -- Bardwell Lk Site CC

| Date | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|
| FEB | | | | |
| 28... | .009 | <.02 | 61 | 5.1 |
| 28... | -- | -- | -- | -- |
| APR | | | | |
| 25... | .006 | <.02 | <10 | E1.5n |
| 25... | -- | -- | -- | -- |
| AUG | | | | |
| 07... | .006 | <.02 | <10 | <2.0 |
| 07... | -- | -- | -- | -- |

321758096412901 -- Bardwell Lk Site DC

| Date | Time | TRANS-PAR-ENCY (SECCHI DISK) (M) (00078) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1317 | .30 | 1.00 | 329 | 8.2 | 9.5 | 11.5 | 102 | E4k | E9k | 130 | 9 | 46.7 |
| 28... | 1326 | -- | 5.00 | 329 | 8.2 | 9.5 | 11.5 | 102 | -- | -- | 130 | 10 | 47.7 |
| APR | | | | | | | | | | | | | |
| 25... | 1407 | .23 | 1.00 | 392 | 8.1 | 22.5 | 8.4 | 98 | E16k | E23 | 160 | 18 | 59.6 |
| 25... | 1415 | -- | 6.00 | 397 | 8.1 | 22.5 | 8.2 | 96 | -- | -- | 150 | 5 | 57.4 |
| AUG | | | | | | | | | | | | | |
| 07... | 1229 | .34 | 1.00 | 349 | 8.4 | 32.0 | 9.0 | 126 | <2k | <2k | 93 | 6 | 33.2 |
| 07... | 1235 | -- | 5.00 | 384 | 8.2 | 30.5 | 7.8 | 106 | -- | -- | 100 | 9 | 37.2 |

08063700 Bardwell Lake near Ennis, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

321758096412901 -- Bardwell Lk Site DC

| Date | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 2.36 | 22.3 | .9 | 27 | 4.22 | 1 | 140 | 117 | 38.3 | 13.6 | .3 | 5.6 | 207 |
| 28... | 2.36 | 22.4 | .9 | 27 | 4.35 | 2 | 142 | 119 | 42.4 | 14.6 | .3 | 5.3 | 214 |
| APR | | | | | | | | | | | | | |
| 25... | 2.33 | 21.0 | .7 | 22 | 3.80 | 2 | 166 | 141 | 37.0 | 12.0 | .3 | 5.0 | 228 |
| 25... | 2.33 | 20.7 | .7 | 22 | 3.84 | 1 | 179 | 148 | 36.4 | 11.8 | .3 | 4.8 | 229 |
| AUG | | | | | | | | | | | | | |
| 07... | 2.38 | 29.8 | 1 | 39 | 5.28 | 2 | 102 | 87 | 46.8 | 19.2 | .4 | 6.0 | 195 |
| 07... | 2.49 | 33.0 | 1 | 39 | 5.81 | 1 | 112 | 94 | 53.9 | 20.2 | .4 | 6.6 | 216 |

321758096412901 -- Bardwell Lk Site DC

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | |
| 28... | .70 | .026 | .73 | E.03 | .33 | .009 | <.02 | 60 | 5.7 |
| 28... | .77 | .023 | .80 | E.04 | .30 | .006 | <.02 | 80 | 9.6 |
| APR | | | | | | | | | |
| 25... | .54 | .013 | .55 | <.04 | .34 | .007 | <.02 | <10 | E.9n |
| 25... | .54 | .013 | .55 | <.04 | .34 | .007 | <.02 | <10 | <2.0 |
| AUG | | | | | | | | | |
| 07... | -- | E.005 | <.05 | <.04 | .31 | .006 | <.02 | <10 | <2.0 |
| 07... | -- | E.006 | .05 | <.04 | .31 | .006 | <.02 | <10 | E1.3n |

Remark codes used in this report
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
k -- Counts outside acceptable range
n -- Below the NDV

Null value qualifier codes used in this report:
u -- Unable to determine-matrix interference

## 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 $mi^2$.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1963 to current year.

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.--Records fair except those for estimated daily discharges, which are poor. Since Nov. 1965, at least 10% of contributing drainage area has been regulated. No flow at times.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | e0.0 | 0.03 | 0.13 | 848 | 0.22 | 21 | 68 | 54 | e0.34 | e0.25 | e0.11 | e0.0 |
| 2 | e0.0 | 0.03 | 0.09 | 841 | 0.17 | 0.29 | 69 | 54 | e0.34 | e0.24 | e0.12 | e0.0 |
| 3 | e0.0 | 0.03 | 0.08 | 834 | 0.15 | 0.40 | 160 | 55 | e0.34 | e0.24 | e0.12 | e0.0 |
| 4 | e0.00 | 0.03 | 0.08 | 615 | 52 | 0.38 | 273 | 53 | e0.34 | e0.22 | e0.11 | e0.0 |
| 5 | e0.0 | 0.02 | 0.07 | 414 | 157 | 0.36 | 271 | 53 | e0.33 | e0.22 | e0.11 | e0.0 |
| 6 | e0.0 | 0.02 | 0.07 | 412 | 157 | 0.36 | 269 | 53 | e0.34 | e0.22 | e0.10 | e0.0 |
| 7 | e0.0 | 0.02 | 0.09 | 409 | 157 | 0.35 | 269 | 103 | e0.34 | e0.20 | e0.10 | e0.0 |
| 8 | e0.0 | 0.02 | 0.18 | 291 | 378 | 0.34 | 177 | 139 | e0.33 | e0.20 | e0.08 | e0.0 |
| 9 | e0.0 | 0.05 | 0.10 | 159 | 540 | 0.31 | 0.98 | 139 | e0.33 | e0.18 | e0.07 | e0.0 |
| 10 | e0.0 | 0.05 | 0.08 | 159 | 529 | 0.24 | 0.73 | 139 | e0.34 | e0.18 | e0.06 | e0.0 |
| 11 | e0.0 | 0.06 | 0.13 | 158 | 524 | 0.23 | 0.56 | 138 | e0.34 | e0.16 | e0.05 | e0.0 |
| 12 | 0.04 | 0.08 | 0.24 | 158 | 518 | 0.23 | 155 | 136 | e0.32 | e0.16 | e0.05 | e0.0 |
| 13 | 1.6 | 0.08 | 0.21 | 157 | 422 | 0.19 | 269 | 135 | e0.30 | e0.14 | e0.04 | e0.0 |
| 14 | 0.52 | 0.07 | 0.20 | 106 | 258 | 0.18 | 267 | 92 | e0.28 | e0.14 | e0.02 | e0.0 |
| 15 | 0.25 | 0.06 | e0.25 | 72 | 116 | 0.17 | 264 | 50 | e0.28 | e0.14 | e0.01 | e0.0 |
| 16 | 0.12 | 0.09 | e0.30 | 73 | 0.54 | 0.16 | 265 | 50 | e0.28 | e0.14 | e0.0 | e0.0 |
| 17 | 0.06 | 0.07 | e0.35 | 28 | 0.43 | 0.17 | 317 | 23 | e0.26 | e0.12 | e0.0 | e0.0 |
| 18 | 0.04 | 0.07 | e0.35 | 0.33 | 0.36 | 0.20 | 385 | 0.47 | e0.26 | e0.12 | e0.0 | e0.0 |
| 19 | 0.04 | 0.08 | 0.35 | 0.15 | 69 | 0.34 | 437 | 0.44 | e0.26 | 16 | e0.0 | e0.0 |
| 20 | 0.04 | 0.08 | 0.29 | 0.08 | 138 | 0.67 | 527 | 0.43 | e0.25 | 50 | e0.0 | e0.0 |
| 21 | 0.03 | 0.08 | 0.26 | 0.07 | 136 | 53 | 524 | 0.42 | e0.24 | 47 | e0.0 | e0.0 |
| 22 | 0.03 | 0.08 | 0.23 | 0.12 | 86 | 154 | 377 | 0.41 | e0.25 | 47 | e0.0 | e0.0 |
| 23 | 0.03 | 0.09 | 0.19 | 0.15 | 56 | 153 | 266 | 0.40 | e0.24 | 29 | e0.0 | e0.0 |
| 24 | 0.02 | 0.05 | 0.17 | 0.20 | 56 | 153 | 266 | 0.37 | e0.22 | e0.18 | e0.0 | e0.0 |
| 25 | 0.02 | 0.05 | 0.16 | 0.15 | 56 | 153 | 269 | 0.36 | e0.24 | e0.16 | e0.0 | e0.0 |
| 26 | 0.02 | 0.05 | 0.15 | 0.13 | 56 | 153 | 111 | 0.36 | e0.22 | e0.16 | e0.0 | e0.0 |
| 27 | 0.02 | 0.05 | 485 | 0.09 | 56 | 117 | 0.35 | 0.36 | e0.24 | e0.12 | e0.0 | e0.0 |
| 28 | 0.02 | 0.23 | 897 | 0.10 | 56 | 66 | 0.30 | 0.36 | e0.24 | e0.10 | e0.0 | e0.0 |
| 29 | 0.02 | 0.23 | 879 | 0.11 | --- | 66 | 0.27 | 0.48 | e0.25 | e0.11 | e0.0 | e0.0 |
| 30 | 0.02 | 0.17 | 867 | 0.12 | --- | 67 | 33 | e0.35 | e0.24 | e0.10 | e0.0 | e0.0 |
| 31 | 0.02 | --- | 858 | 0.28 | --- | 68 | --- | e0.34 | --- | e0.11 | e0.0 | --- |
| TOTAL | 2.96 | 2.12 | 3990.80 | 5736.08 | 4574.87 | 1229.57 | 6291.19 | 1471.55 | 8.58 | 193.31 | 1.15 | 0.0 |
| MEAN | 0.095 | 0.071 | 128.7 | 185.0 | 163.4 | 39.66 | 209.7 | 47.47 | 0.286 | 6.236 | 0.037 | 0.000 |
| MAX | 1.6 | 0.23 | 897 | 848 | 540 | 154 | 527 | 139 | 0.34 | 50 | 0.12 | 0.00 |
| MIN | 0.00 | 0.02 | 0.07 | 0.07 | 0.15 | 0.16 | 0.27 | 0.34 | 0.22 | 0.10 | 0.00 | 0.00 |
| AC-FT | 5.9 | 4.2 | 7920 | 11380 | 9070 | 2440 | 12480 | 2920 | 17 | 383 | 2.3 | 0.00 |

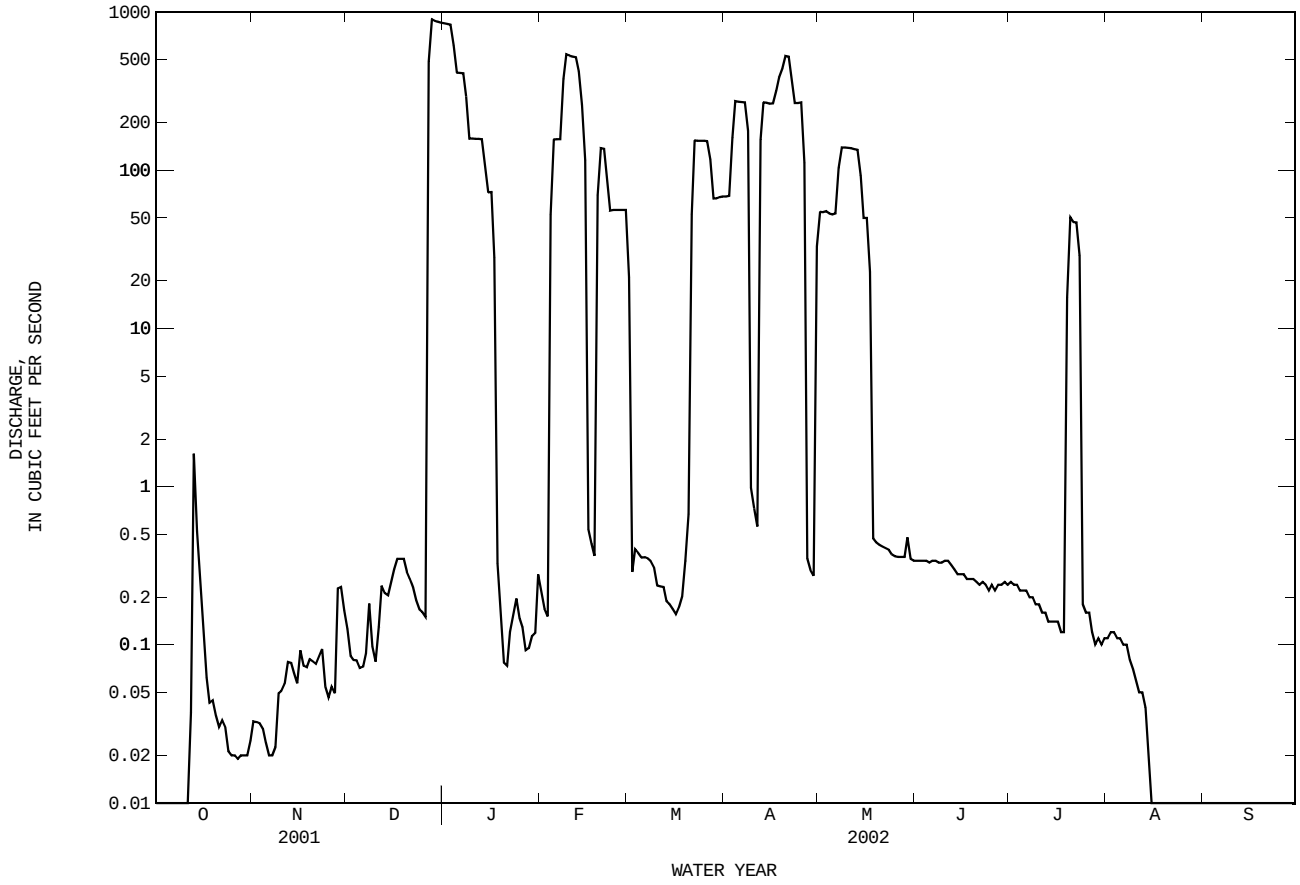
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 18.90 | 74.62 | 87.74 | 124.5 | 114.3 | 161.2 | 128.6 | 158.6 | 179.9 | 24.67 | 4.293 | 5.831 |
| MAX | 299 | 723 | 603 | 921 | 605 | 710 | 590 | 827 | 773 | 370 | 71.8 | 178 |
| (WY) | 1974 | 1992 | 1999 | 1998 | 1992 | 1997 | 1977 | 1973 | 1989 | 1981 | 1973 | 1976 |
| MIN | 0.000 | 0.000 | 0.018 | 0.022 | 0.022 | 0.024 | 0.11 | 0.11 | 0.001 | 0.000 | 0.000 | 0.000 |
| (WY) | 1964 | 1964 | 1990 | 1967 | 1967 | 1967 | 1996 | 1996 | 1996 | 1966 | 1964 | 1966 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1964 - 2002 | | |
|---|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 44551.96 | | 23502.18 | | | | |
| ANNUAL MEAN | 122.1 | | 64.39 | | 90.02 | | |
| HIGHEST ANNUAL MEAN | | | | | 318 | | 1992 |
| LOWEST ANNUAL MEAN | | | | | 0.063 | | 1967 |
| HIGHEST DAILY MEAN | 1580 | Mar 22 | 897 | Dec 28 | 1880 | Jun 25 | 1981 |
| LOWEST DAILY MEAN | 0.00 | Jul 7 | 0.00 | Oct 1 | 0.00 | Oct 1 | 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jul 7 | 0.00 | Oct 1 | 0.00 | Oct 1 | 1963 |
| MAXIMUM PEAK FLOW | | | 930 | Dec 27 | 1960 | Jun 25 | 1981 |
| MAXIMUM PEAK STAGE | | | 20.23 | Dec 27 | aa28.13 | Jun 25 | 1981 |
| ANNUAL RUNOFF (AC-FT) | 88370 | | 46620 | | 65210 | | |
| 10 PERCENT EXCEEDS | 287 | | 260 | | 283 | | |
| 50 PERCENT EXCEEDS | 0.09 | | 0.23 | | 1.1 | | |
| 90 PERCENT EXCEEDS | 0.00 | | 0.00 | | 0.00 | | |

e Estimated
aa Adjusted to present datum.

08063800 Waxahachie Creek near Bardwell, TX--Continued



08063800 Waxahachie Creek near Bardwell, 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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | 1300 | 56 | 324 | 8.4 | 10.0 | 11.7 | 104 | -- | 120 | 10 | 43.9 | 2.31 | 21.4 |
| APR | | | | | | | | | | | | | |
| 24... | 1400 | 262 | 368 | 8.3 | 21.0 | 8.4 | 96 | -- | 130 | 9 | 49.1 | 2.46 | 21.8 |
| AUG | | | | | | | | | | | | | |
| 07... | 1032 | .42 | 407 | 7.4 | 27.5 | 5.3 | 68 | <2.0 | 130 | -- | 46.8 | 2.87 | 26.9 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | .9 | 27 | 3.88 | 1 | 131 | 110 | 36.7 | 13.7 | .3 | 5.31 | 212 | 196 | 24 |
| APR | | | | | | | | | | | | | |
| 24... | .8 | 26 | 4.07 | 1 | 148 | 124 | 36.9 | 12.0 | .2 | 3.61 | 222 | 208 | 23 |
| AUG | | | | | | | | | | | | | |
| 07... | 1 | 30 | 4.02 | <1 | 161 | 132 | 41.1 | 16.9 | .4 | 5.93 | 243 | 224 | <10 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | .66 | .027 | .69 | .05 | .33 | .38 | .008 | <.02 | 5.0 | <1 | <.05 | 2 | 52 |
| APR | | | | | | | | | | | | | |
| 24... | .73 | .051 | .78 | E.02 | -- | .41 | .007 | <.02 | 5.3 | 1 | .38 | 3 | 61 |
| AUG | | | | | | | | | | | | | |
| 07... | -- | <.008 | <.05 | <.04 | -- | .33 | .015 | <.02 | 4.6 | 3 | .24 | 4 | 61 |

| Date | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 28... | <.06 | <.04 | <.8 | .15 | 1.2 | E9 | .10 | .3 | <.01 | .3 | 1.53 | <2 | <1 |
| APR | | | | | | | | | | | | | |
| 24... | <.06 | E.03 | <.8 | .17 | 1.8 | <10 | .08 | .4 | E.01n | 3.4 | 1.45 | <2 | <1 |
| AUG | | | | | | | | | | | | | |
| 07... | <.06 | <.04 | <.8 | .17 | .9 | <10 | <.08 | 8.7 | <.01 | 4.6 | 2.17 | <2 | <1 |

| Date | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) |
|---|---|---|
| FEB | | |
| 28... | <1 | .71 |
| APR | | |
| 24... | 2 | .82 |
| AUG | | |
| 07... | 4 | .58 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
n -- Below the NDV

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## 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 $mi^2$.

### 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 good 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. Flood releases from Bardwell Lake will sustain flows at this site from time to time. In addition, flow is affected at times by discharge from the flood-detention pools of numerous floodwater-retarding structures in the drainage basin above this station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood information for the next downstream station, Chambers Creek near Corsicana, (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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12 | 12 | 22 | e517 | 1350 | 151 | 1640 | 171 | 115 | 14 | 2.2 | 0.09 |
| 2 | 19 | 12 | 22 | e492 | 751 | 77 | 955 | 164 | 73 | 100 | 2.4 | 0.08 |
| 3 | 19 | 13 | 21 | e467 | 397 | 75 | 751 | 175 | 54 | 178 | 3.5 | 0.08 |
| 4 | 19 | 13 | 20 | e442 | 280 | 69 | 753 | 921 | 44 | 195 | 1.9 | 0.07 |
| 5 | 16 | 13 | 20 | e417 | 577 | 65 | 659 | 531 | 36 | 169 | 1.1 | 0.06 |
| 6 | 9.8 | e2.6 | 21 | e392 | 2930 | 66 | 608 | 410 | 32 | 74 | 0.96 | 0.06 |
| 7 | 7.5 | e2.6 | e11 | e367 | e4490 | 66 | 595 | 441 | 28 | 49 | 0.74 | 0.07 |
| 8 | 7.1 | 12 | e12 | e343 | e1960 | e100 | 888 | 386 | 26 | 36 | 0.56 | 0.08 |
| 9 | 7.2 | 13 | e8.3 | e318 | e1440 | 67 | 1340 | 337 | 24 | 28 | 0.45 | 0.09 |
| 10 | 6.7 | 18 | e8.9 | e306 | e1210 | 66 | 663 | 308 | 23 | 22 | 0.43 | 0.09 |
| 11 | 6.6 | 19 | e11 | e293 | e1000 | 60 | 461 | 359 | 20 | 18 | 0.41 | 0.08 |
| 12 | 10 | 18 | 30 | 285 | e775 | 59 | 461 | 320 | 18 | 17 | 1.3 | 0.07 |
| 13 | e53 | 38 | 36 | 281 | e610 | 60 | 624 | 294 | 16 | 15 | 1.4 | 0.07 |
| 14 | e162 | 34 | 42 | 242 | e501 | 59 | 589 | 255 | e33 | 13 | 0.74 | 0.07 |
| 15 | e171 | 26 | 48 | 164 | 433 | 57 | 574 | 166 | 13 | 12 | 0.49 | 0.06 |
| 16 | 341 | 28 | 9960 | 163 | 170 | 54 | 545 | 152 | 14 | 14 | 0.41 | 0.06 |
| 17 | 219 | 37 | 13000 | e144 | 150 | 53 | 786 | 132 | 16 | 62 | 0.37 | 0.05 |
| 18 | 137 | 46 | 7550 | e156 | 141 | 53 | 2110 | 62 | 16 | 91 | 0.29 | 0.05 |
| 19 | 76 | e34 | 2550 | e152 | 178 | 60 | 978 | 56 | 14 | 56 | 0.23 | 0.08 |
| 20 | e17 | e27 | 1730 | e145 | 353 | 822 | 904 | 56 | 12 | 108 | 0.20 | 0.08 |
| 21 | e12 | e23 | 1260 | e133 | 336 | 1180 | 837 | 48 | 10 | 110 | 0.18 | 0.07 |
| 22 | e11 | e20 | e1090 | e145 | 289 | 788 | 711 | 42 | 21 | 103 | 0.17 | 0.06 |
| 23 | e10 | e17 | e991 | e163 | 214 | 601 | 504 | 38 | 12 | 96 | 0.15 | 0.06 |
| 24 | e9.4 | e13 | e867 | e200 | 209 | 506 | 485 | 34 | 9.4 | 23 | 0.14 | 0.06 |
| 25 | e6.6 | e12 | e767 | e251 | 203 | 445 | 469 | 31 | 8.2 | 8.9 | 0.13 | 0.05 |
| 26 | e3.9 | e11 | e717 | 211 | 192 | 410 | 349 | 30 | 7.9 | 6.2 | 0.12 | 0.04 |
| 27 | e3.2 | e10 | e692 | 108 | 186 | 361 | 133 | 31 | 13 | 4.6 | 0.13 | 0.05 |
| 28 | 14 | e12 | e617 | 74 | 180 | 251 | 126 | 53 | 19 | 4.4 | 0.13 | 0.04 |
| 29 | 13 | e16 | e592 | 62 | --- | 237 | 105 | 442 | 12 | 3.6 | 0.11 | 0.03 |
| 30 | 13 | e15 | e567 | 57 | --- | 531 | 113 | 630 | 8.4 | 2.9 | 0.10 | 0.03 |
| 31 | 12 | --- | e542 | 135 | --- | 3030 | --- | 241 | --- | 3.0 | 0.09 | --- |
| TOTAL | 1424.0 | 567.2 | 43825.2 | 7625 | 21505 | 10479 | 20716 | 7316 | 747.9 | 1636.6 | 21.53 | 1.93 |
| MEAN | 45.94 | 18.91 | 1414 | 246.0 | 768.0 | 338.0 | 690.5 | 236.0 | 24.93 | 52.79 | 0.695 | 0.064 |
| MAX | 341 | 46 | 13000 | 517 | 4490 | 3030 | 2110 | 921 | 115 | 195 | 3.5 | 0.09 |
| MIN | 3.2 | 2.6 | 8.3 | 57 | 141 | 53 | 105 | 30 | 7.9 | 2.9 | 0.09 | 0.03 |
| AC-FT | 2820 | 1130 | 86930 | 15120 | 42660 | 20790 | 41090 | 14510 | 1480 | 3250 | 43 | 3.8 |

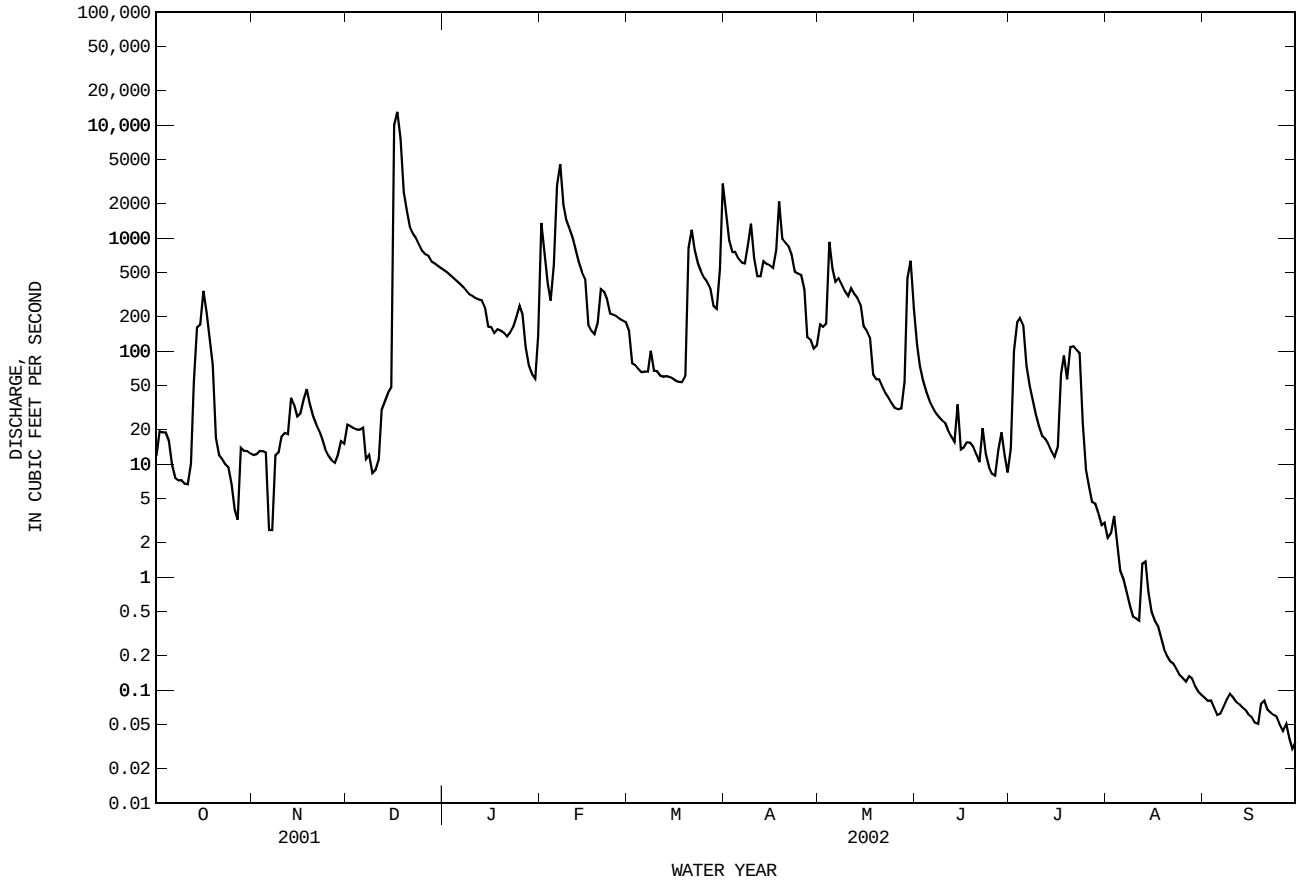
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 303.5 | 354.9 | 911.6 | 566.7 | 805.8 | 831.3 | 555.5 | 698.6 | 624.0 | 47.96 | 33.71 | 24.62 |
| MAX | 1499 | 2002 | 3579 | 2393 | 2450 | 2497 | 2218 | 2932 | 2560 | 194 | 185 | 149 |
| (WY) | 1986 | 1999 | 1992 | 1998 | 1997 | 2001 | 1995 | 1989 | 1986 | 1989 | 1995 | 1991 |
| MIN | 0.000 | 0.000 | 1.45 | 4.66 | 5.16 | 6.35 | 12.2 | 1.34 | 0.051 | 0.081 | 0.000 | 0.000 |
| (WY) | 1989 | 2000 | 1989 | 1996 | 1996 | 1996 | 1996 | 1996 | 1996 | 1988 | 1988 | 1985 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1984 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 202492.72 | | 115865.36 | | | |
| ANNUAL MEAN | 554.8 | | 317.4 | | 487.2 | |
| HIGHEST ANNUAL MEAN | | | | | 1263 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 12.9 | 1996 |
| HIGHEST DAILY MEAN | 13000 | Dec 17 | 13000 | Dec 17 | 22700 | Dec 21 1991 |
| LOWEST DAILY MEAN | 0.09 | Aug 11 | 0.03 | Sep 29 | 0.00 | Aug 6 1985 |
| ANNUAL SEVEN-DAY MINIMUM | 0.09 | Aug 11 | 0.04 | Sep 24 | 0.00 | Aug 6 1985 |
| MAXIMUM PEAK FLOW | | | 18600 | Dec 16 | c43400 | Jun 6 1986 |
| MAXIMUM PEAK STAGE | | | 29.93 | Dec 16 | 32.57 | Dec 21 1991 |
| ANNUAL RUNOFF (AC-FT) | 401600 | | 229800 | | 352900 | |
| 10 PERCENT EXCEEDS | 1850 | | 713 | | 1220 | |
| 50 PERCENT EXCEEDS | 53 | | 49 | | 43 | |
| 90 PERCENT EXCEEDS | 0.27 | | 0.13 | | 0.07 | |

e Estimated
c From rating curve extended above 15,000 $ft^3/s$ on basis of velocity-area study.

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 current year.
WATER TEMPERATURE: Oct. 1983 to Dec. 1993 (local observer), Jan. 1994 to current year.

INSTRUMENTATION.--Water-quality monitor since Jan. 1994.

REMARKS.--Records poor. Interruptions in the record were due to 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. 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 daily, 2,510 microsiemens/cm, Nov. 21, 1988; minimum, 100 microsiemens/cm, Nov. 11, 13, 14, 1998.
WATER TEMPERATURE: Maximum daily, 38.0°C, Aug. 16, 1987; minimum daily, 0.0°C, Feb. 7, 1989.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,050 microsiemens/cm, Aug. 18; minimum, 115 microsiemens/cm, Oct. 13.
WATER TEMPERATURE: Maximum, 31.8°C, July 25; minimum, 5.0°C, Mar. 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 0745 | 352 | 423 | 8.3 | 10.7 | 9.9 | 90 | 160 | 23 | 59.7 | 2.75 | 22.2 | .8 |
| MAR | | | | | | | | | | | | | |
| 15... | 0845 | 1680 | 361 | 8.1 | 14.5 | 8.8 | 88 | 150 | 21 | 56.5 | 2.65 | 12.6 | .4 |
| APR | | | | | | | | | | | | | |
| 11... | 1430 | 892 | 444 | 8.2 | 20.0 | 7.5 | 96 | 160 | 13 | 59.7 | 2.59 | 18.3 | .6 |
| MAY | | | | | | | | | | | | | |
| 16... | 1130 | 95 | 526 | 7.6 | 25.5 | 6.3 | 79 | 190 | 40 | 69.8 | 4.56 | 32.2 | 1 |
| JUN | | | | | | | | | | | | | |
| 14... | 1100 | 33 | 828 | 6.8 | 29.0 | 5.5 | 73 | 250 | 72 | 88.3 | 6.44 | 73.3 | 2 |
| JUL | | | | | | | | | | | | | |
| 11... | 1300 | 24 | 568 | 6.1 | 30.2 | 6.1 | 83 | 190 | 62 | 69.0 | 4.65 | 37.1 | 1 |
| SEP | | | | | | | | | | | | | |
| 06... | 1300 | 332 | 263 | 6.2 | 25.7 | 6.6 | -- | 89 | 9 | 32.4 | 1.82 | 12.0 | .6 |

| Date | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 23 | 3.99 | 138 | 42.8 | 13.9 | .4 | 5.01 | 254 | 238 | .97 | .026 | 1.00 | <.04 |
| MAR | | | | | | | | | | | | | |
| 15... | 15 | 3.02 | 131 | 30.8 | 7.07 | .3 | 8.99 | 227 | 204 | .72 | .013 | .73 | E.03 |
| APR | | | | | | | | | | | | | |
| 11... | 19 | 3.64 | 147 | 37.8 | 12.0 | .3 | 4.22 | 253 | 230 | .71 | .025 | .74 | <.04 |
| MAY | | | | | | | | | | | | | |
| 16... | 26 | 3.85 | 153 | 70.0 | 23.2 | .4 | 6.35 | 335 | 306 | .98 | .014 | 1.00 | <.04 |
| JUN | | | | | | | | | | | | | |
| 14... | 39 | 3.71 | 175 | 135 | 65.3 | .5 | 6.47 | 515 | 484 | -- | <.006 | E.03 | <.04 |
| JUL | | | | | | | | | | | | | |
| 11... | 29 | 5.03 | 130 | 94.5 | 32.8 | .5 | 7.62 | 360 | 329 | -- | <.006 | <.05 | <.04 |
| SEP | | | | | | | | | | | | | |
| 06... | 22 | 3.21 | 80 | 26.2 | 8.80 | .3 | 9.18 | 162 | 145 | .55 | .031 | .59 | E.03 |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| Date | NITRO-GEN, TOTAL (MG/L AS N) (00600) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155) | SEDI-MENT, SUS-PENDED (MG/L) (80154) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 1.9 | .37 | .92 | .147 | .008 | <.02 | -- | 64.6 | 68 | 97 | <10 | <3.2 | <.002 |
| MAR | | | | | | | | | | | | | |
| 15... | 2.2 | .43 | 1.4 | .59 | .031 | .03 | .077 | 3620 | 797 | 98 | E6 | <3.2 | <.002 |
| APR | | | | | | | | | | | | | |
| 11... | 1.4 | .37 | .65 | .078 | .010 | <.02 | -- | 190 | 79 | 100 | <10 | 3.4 | <.002 |
| MAY | | | | | | | | | | | | | |
| 16... | 2.1 | .45 | 1.1 | .162 | .013 | <.02 | -- | 40.8 | 159 | 100 | <10 | 3.5 | <.002 |
| JUN | | | | | | | | | | | | | |
| 14... | -- | .27 | .67 | .096 | .009 | <.02 | -- | 11.0 | 123 | 84 | <10 | 10.1 | <.002 |
| JUL | | | | | | | | | | | | | |
| 11... | -- | .41 | .79 | .121 | .011 | <.02 | -- | 4.2 | 65 | 100 | <10 | 3.2 | <.002 |
| SEP | | | | | | | | | | | | | |
| 06... | 2.7 | .42 | 2.1 | .79 | .028 | E.01 | -- | 898 | 1000 | 100 | E9 | <3.0 | <.002 |

| Date | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | <.004 | <.002 | <.005 | .418 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |
| MAR | | | | | | | | | | | | | |
| 15... | <.004 | <.002 | <.005 | .088 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |
| APR | | | | | | | | | | | | | |
| 11... | <.004 | .012 | <.005 | .506 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |
| MAY | | | | | | | | | | | | | |
| 16... | <.004 | .015 | <.005 | 2.80 | <.050 | <.010 | <.002 | E.050 | <.020 | <.005 | <.006 | <.018 | <.003 |
| JUN | | | | | | | | | | | | | |
| 14... | <.004 | <.002 | <.005 | .364 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |
| JUL | | | | | | | | | | | | | |
| 11... | <.004 | <.002 | <.005 | .263 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |
| SEP | | | | | | | | | | | | | |
| 06... | <.004 | <.002 | <.005 | .016 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 |

| Date | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | E.075 | <.005 | <.005 | <.02 | .008 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .025 | <.006 |
| MAR | | | | | | | | | | | | | |
| 15... | E.029 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .024 | <.006 |
| APR | | | | | | | | | | | | | |
| 11... | E.032 | .008 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .073 | <.006 |
| MAY | | | | | | | | | | | | | |
| 16... | E.188 | E.003 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | 1.45 | <.006 |
| JUN | | | | | | | | | | | | | |
| 14... | E.063 | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .138 | <.006 |
| JUL | | | | | | | | | | | | | |
| 11... | <.006 | .008 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .025 | <.006 |
| SEP | | | | | | | | | | | | | |
| 06... | E.006 | .015 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.007 | <.006 |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| Date | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | <.002 | <.007 | E.001 | <.007 | <.006 | <.002 | <.010 | <.011 | M | <.010 | <.011 | <.02 | <.004 |
| MAR | | | | | | | | | | | | | |
| 15... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 |
| APR | | | | | | | | | | | | | |
| 11... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.40 | <.004 |
| MAY | | | | | | | | | | | | | |
| 16... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | .050 | <.011 | M | <.010 | <.011 | <.02 | <.004 |
| JUN | | | | | | | | | | | | | |
| 14... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 |
| JUL | | | | | | | | | | | | | |
| 11... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 |
| SEP | | | | | | | | | | | | | |
| 06... | <.002 | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 |

| Date | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|---|
| FEB | | | | | | | |
| 07... | .038 | .02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAR | | | | | | | |
| 15... | .018 | E.01 | <.034 | <.02 | <.005 | <.002 | <.009 |
| APR | | | | | | | |
| 11... | .056 | .02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAY | | | | | | | |
| 16... | .034 | E.01 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUN | | | | | | | |
| 14... | E.009 | E.01 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUL | | | | | | | |
| 11... | E.007 | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| SEP | | | | | | | |
| 06... | <.011 | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | 1130 | 20 | -- | 7.7 | 20.0 | 5.9 | -- | <2.0 | 190 | 48 | 68.2 | 3.85 | 37.2 |
| NOV | | | | | | | | | | | | | |
| 08... | 1200 | 12 | 708 | 7.7 | 16.9 | 5.9 | 61 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 03... | 1300 | 21 | 764 | 7.7 | 10.9 | 9.7 | 89 | -- | -- | -- | -- | -- | -- |
| 13... | 0920 | 34 | -- | 8.1 | 10.0 | 9.2 | -- | 2.2 | 230 | 41 | 84.5 | 5.21 | 53.8 |
| JAN | | | | | | | | | | | | | |
| 07... | 1200 | 618 | 315 | 8.2 | 7.3 | 12.5 | 104 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 12... | 1230 | 888 | 361 | 8.1 | 9.1 | 12.1 | 105 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 04... | 1500 | 68 | 571 | 8.2 | 6.4 | 12.8 | 103 | -- | -- | -- | -- | -- | -- |
| 12... | 1500 | 59 | 604 | 8.2 | 14.6 | 10.9 | 108 | -- | -- | -- | -- | -- | -- |
| 19... | 1300 | 60 | 630 | 8.0 | 16.8 | 9.0 | 94 | -- | -- | -- | -- | -- | -- |
| 25... | 1230 | 443 | 423 | 8.1 | 15.5 | 9.5 | 96 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 01... | 1300 | 1480 | 381 | 8.0 | 16.6 | 8.9 | 92 | -- | -- | -- | -- | -- | -- |
| 04... | 0945 | 758 | 394 | 8.1 | 16.0 | 11.5 | 116 | 2.5 | 150 | 17 | 55.9 | 2.59 | 17.8 |
| 08... | 1300 | 888 | 396 | 8.1 | 16.2 | 9.3 | 97 | -- | -- | -- | -- | -- | -- |
| 15... | 1200 | 575 | 419 | 8.2 | 19.9 | 9.2 | 104 | -- | -- | -- | -- | -- | -- |
| 22... | 1200 | 797 | 399 | 8.3 | 22.2 | 9.0 | 103 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 06... | 1130 | 317 | 445 | 7.9 | 24.7 | 7.1 | 86 | -- | -- | -- | -- | -- | -- |
| 13... | 1130 | 298 | 451 | 7.8 | 16.2 | 7.9 | 80 | -- | -- | -- | -- | -- | -- |
| 20... | 1100 | 59 | 583 | 7.9 | 21.6 | 8.7 | 99 | -- | -- | -- | -- | -- | -- |
| 21... | 1015 | 49 | 592 | 8.0 | 21.5 | 7.1 | 80 | --e | 220 | 52 | 80.0 | 5.07 | 39.0 |
| 28... | 1230 | 32 | 690 | 7.5 | 24.5 | 5.8 | 71 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 03... | 1500 | 52 | 535 | 7.3 | 28.0 | 6.5 | 85 | -- | -- | -- | -- | -- | -- |
| 10... | 1115 | 24 | 650 | 7.0 | 27.8 | 5.1 | 66 | -- | -- | -- | -- | -- | -- |
| 18... | 1000 | 16 | 735 | 7.4 | 25.7 | 5.2 | 65 | -- | -- | -- | -- | -- | -- |
| 26... | 1045 | 7.7 | 721 | 7.4 | 27.9 | 5.3 | 68 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | | |
| 08... | 1130 | 36 | 459 | 7.6 | 29.0 | 5.4 | 70 | -- | -- | -- | -- | -- | -- |
| 09... | 1002 | 28 | 482 | 7.6 | 29.0 | 9.3 | 124 | 3.2 | 180 | 70 | 65.7 | 4.28 | 29.4 |
| 22... | 1100 | 102 | 383 | 7.8 | 29.4 | 6.6 | 86 | -- | -- | -- | -- | -- | -- |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | 1 | 30 | 4.19 | <1 | 168 | 138 | 2.5 | 14.1 | .4 | 9.18 | 330 | 228 | 80 |
| NOV | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | 172 | 109 | 55.3 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | 190 | 121 | 52.7 | -- | -- | -- | -- | -- |
| 13... | 2 | 33 | 3.67 | 1 | 232 | 192 | 92.1 | 50.1 | .5 | 4.94 | 434 | 411 | 24 |
| JAN | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | 114 | 36.1 | 14.3 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | 116 | 41.3 | 12.6 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | 183 | 81.6 | 27.8 | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 04... | .6 | 20 | 3.32 | 1 | 161 | 134 | 38.4 | 12.2 | .3 | 5.74 | 230 | 222 | 274 |
| 08... | -- | -- | -- | -- | -- | 144 | 38.6 | 12.3 | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | 136 | 65.5 | 14.6 | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 1 | 27 | 3.58 | 2 | 202 | 169 | 85.7 | 29.1 | .4 | 5.95 | 358 | 351 | 44 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | -- | -- | -- | -- | -- | 151 | 102 | 37.3 | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | 112 | 71.8 | 18.5 | -- | -- | -- | -- | -- |
| 09... | .9 | 25 | 4.86 | <1 | 136 | 113 | 76.5 | 19.8 | .5 | 10.6 | 297 | 280 | 105 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, TOTAL (MG/L AS N) (00600) | NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | 1.17 | .022 | 1.20 | <.04 | -- | -- | -- | .48 | -- | -- | <.06 | <.02 | -- |
| NOV | | | | | | | | | | | | | |
| 08... | -- | <.008 | .10 | <.04 | .62 | -- | -- | -- | .52 | .058 | -- | <.02 | -- |
| DEC | | | | | | | | | | | | | |
| 03... | -- | <.008 | .12 | <.04 | .65 | -- | -- | -- | .53 | .055 | -- | <.02 | -- |
| 13... | -- | E.006 | .34 | E.03 | -- | -- | -- | .33 | -- | -- | .007 | <.02 | -- |
| JAN | | | | | | | | | | | | | |
| 07... | .48 | .009 | .49 | E.03 | 1.1 | -- | -- | -- | .61 | .081 | -- | .02 | .055 |
| FEB | | | | | | | | | | | | | |
| 12... | .79 | .057 | .85 | <.04 | 1.5 | -- | -- | -- | .69 | .092 | -- | <.02 | -- |
| MAR | | | | | | | | | | | | | |
| 04... | -- | <.008 | 1.02 | <.04 | 1.3 | -- | -- | -- | .25 | .020 | -- | <.02 | -- |
| 12... | -- | E.004 | .75 | <.04 | 1.0 | -- | -- | -- | .30 | .023 | -- | <.02 | -- |
| 19... | -- | E.004 | .49 | <.04 | .84 | -- | -- | -- | .35 | .033 | -- | <.02 | -- |
| 25... | .98 | .039 | 1.02 | E.04 | 2.0 | -- | -- | -- | .93 | .178 | -- | <.02 | -- |
| APR | | | | | | | | | | | | | |
| 01... | 1.75 | .098 | 1.84 | .06 | 3.4 | 1.5 | -- | -- | 1.6 | .67 | -- | .02 | .061 |
| 04... | 1.19 | .109 | 1.30 | .11 | -- | -- | .36 | .47 | -- | -- | E.04 | .09 | .276 |
| 08... | 1.28 | .051 | 1.33 | <.04 | 2.5 | -- | -- | -- | 1.1 | .35 | -- | <.02 | -- |
| 15... | .77 | .013 | .78 | <.04 | 1.5 | -- | -- | -- | .76 | .126 | -- | <.02 | -- |
| 22... | .66 | .015 | .68 | <.04 | 1.3 | -- | -- | -- | .58 | .113 | -- | <.02 | -- |
| MAY | | | | | | | | | | | | | |
| 06... | 1.22 | .078 | 1.30 | .07 | 2.7 | 1.3 | -- | -- | 1.4 | .31 | -- | E.01 | -- |
| 13... | .84 | .026 | .87 | <.04 | 1.7 | -- | -- | -- | .81 | .144 | -- | <.02 | -- |
| 20... | -- | <.008 | .36 | <.04 | .92 | -- | -- | -- | .56 | .070 | -- | <.02 | -- |
| 21... | -- | <.008 | .33 | <.04 | -- | -- | -- | .29 | -- | -- | .006 | <.02 | -- |
| 28... | -- | <.008 | .15 | <.04 | .74 | -- | -- | -- | .58 | .084 | -- | <.02 | -- |
| JUN | | | | | | | | | | | | | |
| 03... | 1.19 | .014 | 1.20 | <.04 | 2.0 | -- | -- | -- | .81 | .141 | -- | <.02 | -- |
| 10... | -- | E.004 | .12 | <.04 | .87 | -- | -- | -- | .75 | .097 | -- | <.02 | -- |
| 18... | -- | <.008 | <.05 | <.04 | -- | -- | -- | -- | .61 | .091 | -- | <.02 | -- |
| 26... | -- | <.008 | <.05 | <.04 | -- | -- | -- | -- | .76 | .077 | -- | <.02 | -- |
| JUL | | | | | | | | | | | | | |
| 08... | .41 | .010 | .42 | <.04 | 1.3 | -- | -- | -- | .86 | .159 | -- | E.01 | -- |
| 09... | -- | E.006 | .37 | <.04 | -- | -- | -- | .42 | -- | -- | .019 | E.01 | -- |
| 22... | -- | <.008 | <.05 | <.04 | -- | -- | -- | -- | .69 | .111 | -- | <.02 | -- |

| Date | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681) | CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155) | SEDI-MENT, SUS-PENDED (MG/L) (80154) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | 9.8 | -- | -- | -- | -- | <1 | .31 | 4 | 64 | <.06 | <.04 | <.8 | .28 |
| NOV | | | | | | | | | | | | | |
| 08... | -- | 5.7 | 1.9 | 1.5 | 47 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | | |
| 03... | -- | 4.8 | 2.1 | 2.7 | 47 | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 65.1 | -- | -- | -- | -- | <1 | .15 | 2 | 73 | <.06 | <.04 | <.8 | .34 |
| JAN | | | | | | | | | | | | | |
| 07... | -- | 3.6 | 2.4 | 81.8 | 49 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | | |
| 12... | -- | 4.1 | 4.1 | 189 | 79 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | 2.8 | 1.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 04... | 10.0 | -- | -- | -- | -- | <1 | .20 | 3 | 49 | <.06 | <.04 | <.8 | .24 |
| 08... | -- | 4.5 | --i | 1200 | 499 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | | |
| 06... | -- | -- | -- | 239 | 279 | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | 4.5 | 5.4 | 200 | 249 | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | -- | 13.4 | 84 | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 5.7 | -- | -- | -- | -- | 2 | .15 | E1 | 62 | <.06 | <.04 | <.8 | .37 |
| 28... | -- | -- | -- | 10.4 | 120 | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | 12.5 | 89 | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | -- | 4.5 | 2.4 | 5.2 | 81 | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | 5.4 | 124 | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | -- | -- | -- | 1.6 | 76 | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | | |
| 08... | -- | 5.8 | 4.2 | 10.2 | 105 | -- | -- | -- | -- | -- | -- | -- | -- |
| 09... | 8.5 | -- | -- | -- | -- | <1 | .28 | 3 | 56 | <.06 | E.03 | <.8 | .32 |
| 22... | -- | -- | -- | 24.0 | 87 | -- | -- | -- | -- | -- | -- | -- | -- |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | 2.1 | E6 | <.08 | 7.5 | <.01 | 4.5 | 1.89 | <2 | <1 | <1 | 1.60 | -- | -- |
| NOV | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.002 | <.004 |
| DEC | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.002 | <.004 |
| 13... | 1.9 | <10 | <.08 | 8.8 | -- | 2.5 | 3.16 | <2 | <1 | 2 | 2.01 | -- | -- |
| JAN | | | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| FEB | | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| MAR | | | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | .029 |
| APR | | | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | .053 |
| 04... | 1.7 | <10 | <.08 | .6 | <.01 | 2.4 | 2.44 | <2 | <1 | <1 | 1.11 | -- | -- |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | .006 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | .040 |
| MAY | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.030 | <.030 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 21... | 2.0 | <10 | <.08 | 3.8 | E.01n | 3.2 | 3.14 | <2 | <1 | 1 | 1.92 | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| JUN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --r | --r |
| JUL | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |
| 09... | 2.6 | <10 | <.08 | 4.5 | <.01 | 6.3 | 3.93 | <2 | <1 | 1 | 1.30 | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.006 | <.006 |

| Date | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ALPHA BHC DIS-SOLVED (UG/L) (34253) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632) | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028) | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933) | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041) | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 08... | <.002 | <.005 | 2.62 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.166 |
| DEC | | | | | | | | | | | | | |
| 03... | <.002 | <.005 | .518 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.064 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 07... | <.004 | <.005 | .498 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.051 |
| FEB | | | | | | | | | | | | | |
| 12... | <.004 | <.005 | .916 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.059 |
| MAR | | | | | | | | | | | | | |
| 04... | <.004 | <.005 | .414 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.037 |
| 12... | <.010 | <.005 | .400 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.021 |
| 19... | .010 | <.005 | .382 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.015 |
| 25... | .407 | <.005 | 3.76 | <.050 | <.010 | <.002 | <.041 | E.070 | <.005 | <.006 | <.018 | <.003 | E.062 |
| APR | | | | | | | | | | | | | |
| 01... | 1.61 | <.005 | 7.49 | <.050 | <.010 | <.002 | <.041 | E.174 | <.005 | <.006 | <.018 | <.003 | E.186 |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08... | .111 | <.005 | 4.71 | <.050 | <.010 | <.002 | <.041 | E.050 | <.005 | <.006 | <.018 | <.003 | E.104 |
| 15... | .069 | <.005 | 1.97 | <.050 | <.010 | <.002 | <.041 | E.032 | <.005 | <.006 | <.018 | <.003 | E.060 |
| 22... | .166 | <.005 | 1.45 | <.050 | <.010 | <.002 | E.010 | <.020 | <.005 | <.006 | <.018 | <.003 | E.041 |
| MAY | | | | | | | | | | | | | |
| 06... | .599 | <.023 | 4.53 | <.250 | <.050 | <.010 | <.205 | E.228 | <.025 | <.030 | <.090 | <.015 | E.227 |
| 13... | .039 | <.005 | 1.56 | <.050 | <.010 | <.002 | <.041 | E.007 | <.005 | <.006 | <.018 | <.003 | E.157 |
| 20... | .058 | <.005 | .546 | <.050 | <.010 | <.002 | <.041 | E.003 | <.005 | <.006 | <.018 | <.003 | E.097 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | .025 | <.005 | .963 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.122 |
| JUN | | | | | | | | | | | | | |
| 03... | .238 | <.005 | 1.22 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.312 |
| 10... | .032 | <.005 | .793 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.245 |
| 18... | .007 | <.005 | .443 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.142 |
| 26... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 08... | <.004 | <.005 | .633 | <.050 | <.010 | <.002 | E.015 | <.020 | <.005 | <.006 | <.018 | <.003 | E.106 |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | <.004 | <.005 | .800 | <.050 | <.010 | <.002 | <.041 | <.020 | <.005 | <.006 | <.018 | <.003 | E.143 |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | DI-AZINON, DIS-SOLVED (UG/L) (39572) | DI-ELDRIN DIS-SOLVED (UG/L) (39381) | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677) | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668) | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095) | LINDANE DIS-SOLVED (UG/L) (39341) | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 08... | <.007 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .017 | <.006 | <.002 |
| DEC | | | | | | | | | | | | | |
| 03... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.007 | <.006 | <.002 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 07... | E.004 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .023 | <.006 | <.002 |
| FEB | | | | | | | | | | | | | |
| 12... | <.007 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .041 | <.006 | <.002 |
| MAR | | | | | | | | | | | | | |
| 04... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.011n | <.006 | <.002 |
| 12... | E.004n | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.008n | <.006 | <.002 |
| 19... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .028 | <.006 | <.002 |
| 25... | .012 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .302 | <.006 | <.002 |
| APR | | | | | | | | | | | | | |
| 01... | .009 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .540 | <.006 | <.002 |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08... | .007 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .442 | <.006 | <.002 |
| 15... | .009 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .259 | <.006 | <.002 |
| 22... | .031 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .050 | <.006 | <.002 |
| MAY | | | | | | | | | | | | | |
| 06... | .026 | <.024 | <.10 | <.010 | <.045 | <.025 | <.013 | <.020 | <.175 | <.135 | .148 | <.030 | <.008 |
| 13... | .009 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .248 | <.006 | <.002 |
| 20... | E.003n | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .026 | <.006 | <.002 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | E.004n | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .024 | <.006 | <.002 |
| JUN | | | | | | | | | | | | | |
| 03... | .008 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .024 | <.006 | <.002 |
| 10... | <.009 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .018 | <.006 | <.002 |
| 18... | <.005 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | E.011n | <.006 | <.002 |
| 26... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 08... | .006 | <.005 | <.02 | <.002 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .013 | <.006 | <.002 |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | <.005 | <.005 | <.02 | <.020 | <.009 | <.005 | <.003 | <.004 | <.035 | <.027 | .129 | <.006 | <.002 |

| Date | NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684) | P,P' DDE DISSOLV (UG/L) (34653) | PARA-THION, DIS-SOLVED (UG/L) (39542) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683) | PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037) | PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024) | PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679) | PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685) | PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | | |
| 08... | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.011 |
| DEC | | | | | | | | | | | | | |
| 03... | <.007 | <.003 | <.007 | <.006 | <.002 | <.010 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.011 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 07... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | E.01 | <.010 | <.011 | <.02 | <.004 | .051 |
| FEB | | | | | | | | | | | | | |
| 12... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .054 |
| MAR | | | | | | | | | | | | | |
| 04... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .006 |
| 12... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| 19... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | <.005 |
| 25... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .057 |
| APR | | | | | | | | | | | | | |
| 01... | <.007 | <.003 | <.010 | <.006 | <.004 | E.013n | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .051 |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | Mn | <.010 | <.011 | <.02 | <.004 | .058 |
| 15... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .089 |
| 22... | <.007 | <.003 | <.010 | <.006 | <.004 | E.013n | <.011 | E.01n | <.010 | <.011 | <.02 | <.004 | .264 |
| MAY | | | | | | | | | | | | | |
| 06... | <.035 | <.013 | <.050 | <.030 | <.021 | <.110 | <.055 | <.07 | <.050 | <.055 | <.12 | <.021 | .065 |
| 13... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | E.01n | <.010 | <.011 | <.02 | <.004 | .065 |
| 20... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | Mn | <.010 | <.011 | <.02 | <.004 | .028 |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .028 |
| JUN | | | | | | | | | | | | | |
| 03... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .012 |
| 10... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .019 |
| 18... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .018 |
| 26... | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | | | | | | | | |
| 08... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | <.01 | <.010 | <.011 | <.02 | <.004 | .024 |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | <.007 | <.003 | <.010 | <.006 | <.004 | <.022 | <.011 | .02 | <.010 | <.011 | <.02 | <.004 | .039 |

08064100 Chambers Creek near Rice, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665) | TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675) | THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678) | TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661) |
|---|---|---|---|---|---|---|
| OCT | | | | | | |
| 25... | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | |
| 08... | E.01 | <.041 | <.02 | <.005 | <.002 | <.009 |
| DEC | | | | | | |
| 03... | E.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 13... | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | |
| 07... | .02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| FEB | | | | | | |
| 12... | E.01n | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAR | | | | | | |
| 04... | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 12... | E.01 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 19... | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 25... | E.01 | <.034 | <.02 | <.005 | <.002 | <.009 |
| APR | | | | | | |
| 01... | E.01n | <.034 | <.02 | <.005 | <.002 | <.009 |
| 04... | -- | -- | -- | -- | -- | -- |
| 08... | E.01n | <.034 | <.02 | <.005 | <.002 | <.009 |
| 15... | .02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 22... | E.03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| MAY | | | | | | |
| 06... | E.05 | <.170 | <.09 | <.024 | <.011 | <.045 |
| 13... | <.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 20... | E.01n | <.034 | <.02 | <.005 | <.002 | <.009 |
| 21... | -- | -- | -- | -- | -- | -- |
| 28... | .03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| JUN | | | | | | |
| 03... | E.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 10... | E.03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 18... | E.02 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 26... | --r | --r | --r | --r | --r | --r |
| JUL | | | | | | |
| 08... | E.03 | <.034 | <.02 | <.005 | <.002 | <.009 |
| 09... | -- | -- | -- | -- | -- | -- |
| 22... | .03 | <.034 | <.02 | <.005 | <.002 | <.009 |

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this report:
n -- Below the NDV

Null value qualifier codes used in this report:
e -- Required equipment not functional/avail
i -- Required sample type not received
r -- Sample ruined in preparation

08064100 Chambers Creek near Rice, TX--Continued

SPECIFIC CONDUCTANCE (DCP 1788E306), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 799 | 761 | 785 | 641 | 637 | 639 | 740 | 722 | 728 | --- | --- | e292 |
| 2 | 794 | 761 | 777 | 652 | 641 | 646 | 752 | 724 | 735 | --- | --- | e292 |
| 3 | 825 | 767 | 798 | 664 | 652 | 657 | 783 | 752 | 768 | 292 | 291 | 291 |
| 4 | 873 | 825 | 837 | 672 | 664 | 668 | 784 | 777 | 781 | 314 | 291 | 297 |
| 5 | 875 | 723 | 801 | 686 | 672 | 680 | 781 | 769 | 777 | 306 | 304 | 305 |
| 6 | 723 | 683 | 697 | 700 | 686 | 694 | 786 | 768 | 774 | 308 | 305 | 307 |
| 7 | 683 | 647 | 663 | 710 | 700 | 706 | 803 | 786 | 798 | 307 | 305 | 306 |
| 8 | 654 | 646 | 650 | 725 | 707 | 719 | --- | --- | e798 | 350 | 305 | 313 |
| 9 | 650 | 633 | 644 | 722 | 706 | 712 | --- | --- | e753 | 350 | 341 | 343 |
| 10 | 634 | 628 | 630 | 732 | 708 | 726 | --- | --- | e721 | 343 | 342 | 343 |
| 11 | 639 | 616 | 632 | 731 | 705 | 719 | 719 | 713 | 716 | 344 | 342 | 343 |
| 12 | 673 | 528 | 653 | 705 | 631 | 678 | 724 | 709 | 718 | 343 | 338 | 341 |
| 13 | 528 | 115 | 273 | 685 | 631 | 659 | 713 | 655 | 697 | 340 | 338 | 339 |
| 14 | 326 | 228 | 299 | 674 | 641 | 659 | --- | --- | e650 | 378 | 336 | 343 |
| 15 | 324 | 316 | 320 | 678 | 649 | 663 | 673 | 614 | 649 | 378 | 368 | 370 |
| 16 | 318 | 315 | 316 | 680 | 643 | 659 | 622 | 132 | 211 | 369 | 365 | 367 |
| 17 | 319 | 315 | 316 | 647 | 619 | 638 | 251 | 143 | 198 | 378 | 366 | 369 |
| 18 | 348 | 319 | 332 | 628 | 582 | 612 | 257 | 239 | 248 | --- | --- | e393 |
| 19 | 392 | 348 | 368 | 588 | 574 | 582 | 246 | 239 | 241 | --- | --- | e407 |
| 20 | 425 | 392 | 408 | 617 | 582 | 603 | 244 | 237 | 240 | --- | --- | e425 |
| 21 | 457 | 425 | 442 | 605 | 575 | 587 | 248 | 244 | 246 | --- | --- | e453 |
| 22 | 488 | 457 | 473 | 612 | 575 | 587 | --- | --- | e247 | --- | --- | e487 |
| 23 | 513 | 488 | 504 | 671 | 612 | 649 | --- | --- | e246 | --- | --- | e514 |
| 24 | 543 | 513 | 529 | 688 | 671 | 679 | --- | --- | e249 | --- | --- | e548 |
| 25 | 560 | 543 | 550 | 706 | 683 | 689 | --- | --- | e251 | --- | --- | e582 |
| 26 | 576 | 560 | 567 | --- | --- | e719 | --- | --- | e259 | 548 | 427 | 467 |
| 27 | 588 | 576 | 581 | --- | --- | e774 | --- | --- | e265 | 462 | 426 | 440 |
| 28 | 607 | 587 | 594 | --- | --- | e786 | --- | --- | e270 | 492 | 462 | 476 |
| 29 | 621 | 607 | 615 | --- | --- | e779 | --- | --- | e276 | 523 | 492 | 509 |
| 30 | 634 | 621 | 627 | --- | 740 | e753 | --- | --- | e282 | 536 | 523 | 529 |
| 31 | 640 | 634 | 636 | --- | --- | --- | --- | --- | e287 | 538 | 320 | 515 |
| MONTH | 875 | 115 | 559 | --- | --- | 677 | --- | --- | 486 | --- | --- | 397 |

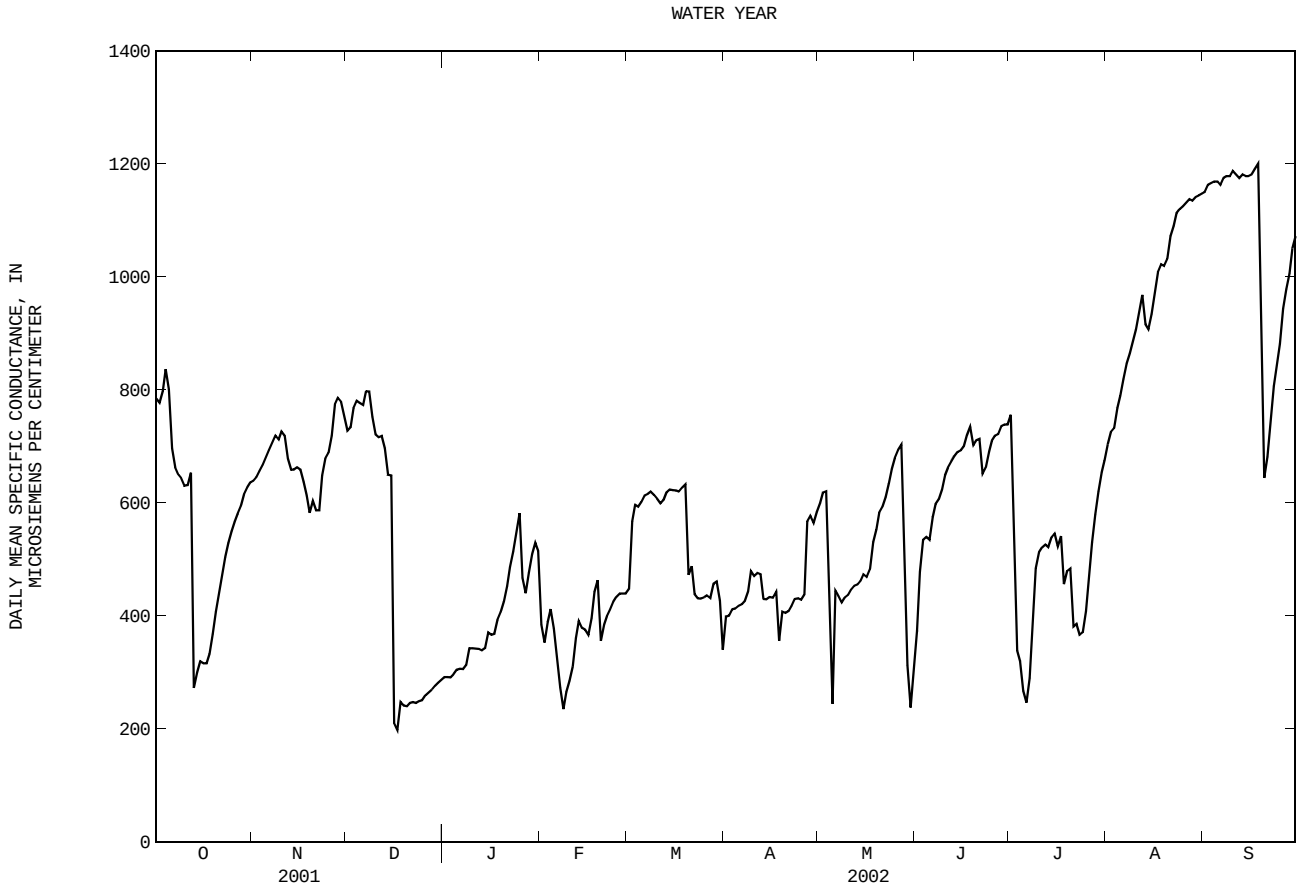
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 483 | 321 | 385 | 469 | 441 | 447 | 412 | 384 | 399 | --- | --- | e599 |
| 2 | 373 | 330 | 353 | 600 | 469 | 568 | 407 | 393 | 401 | --- | --- | e618 |
| 3 | 400 | 373 | 389 | 600 | 592 | 597 | 418 | 407 | 412 | --- | --- | e621 |
| 4 | 422 | 400 | 412 | 594 | 592 | 593 | 416 | 410 | 413 | --- | --- | e400 |
| 5 | 551 | 327 | 378 | 607 | 594 | 602 | 420 | 414 | 418 | --- | --- | e244 |
| 6 | 346 | 315 | 324 | 616 | 607 | 613 | 423 | 418 | 420 | --- | --- | e445 |
| 7 | --- | --- | e273 | 619 | 614 | 616 | 432 | 419 | 427 | --- | --- | e435 |
| 8 | --- | --- | e235 | 624 | 615 | 620 | 501 | 425 | 443 | --- | --- | e424 |
| 9 | --- | --- | e265 | 616 | 609 | 614 | 567 | 443 | 479 | --- | --- | e433 |
| 10 | --- | --- | e285 | 609 | 600 | 607 | 475 | 458 | 471 | --- | --- | e438 |
| 11 | --- | --- | e310 | 604 | 597 | 600 | 480 | 472 | 476 | --- | --- | e447 |
| 12 | --- | --- | e361 | 618 | 600 | 606 | 509 | 429 | 474 | --- | --- | e453 |
| 13 | --- | --- | e392 | 626 | 616 | 619 | 434 | 426 | 430 | --- | --- | e456 |
| 14 | --- | --- | e379 | 631 | 620 | 624 | 436 | 426 | 430 | --- | --- | e462 |
| 15 | --- | --- | e376 | 630 | 618 | 623 | 440 | 430 | 433 | --- | --- | e474 |
| 16 | --- | --- | e366 | 627 | 619 | 622 | 440 | 428 | 432 | --- | --- | e469 |
| 17 | --- | --- | e396 | 627 | 615 | 620 | 511 | 365 | 443 | --- | --- | e483 |
| 18 | --- | --- | e442 | 635 | 625 | 627 | 415 | 317 | 356 | --- | --- | e530 |
| 19 | --- | --- | e463 | 640 | 607 | 633 | 412 | 402 | 407 | --- | --- | e553 |
| 20 | --- | --- | e356 | 626 | 348 | 473 | 410 | 401 | 405 | --- | --- | e583 |
| 21 | --- | --- | e384 | 597 | 421 | 488 | 413 | 407 | 409 | --- | --- | e593 |
| 22 | --- | --- | e399 | 500 | 426 | 438 | 434 | 409 | 418 | --- | --- | e610 |
| 23 | --- | --- | e411 | 433 | 430 | 431 | 435 | 428 | 430 | --- | --- | e635 |
| 24 | --- | --- | e425 | 432 | 430 | 431 | 433 | 428 | 431 | --- | --- | e660 |
| 25 | --- | --- | e434 | 435 | 431 | 433 | 431 | 424 | 428 | --- | --- | e680 |
| 26 | --- | --- | e440 | 438 | 435 | 436 | 508 | 424 | 438 | --- | --- | e694 |
| 27 | --- | --- | e440 | 447 | 428 | 432 | 577 | 508 | 567 | --- | --- | e703 |
| 28 | 441 | 439 | 440 | 460 | 447 | 457 | 581 | 560 | 577 | --- | --- | e485 |
| 29 | --- | --- | --- | 462 | 459 | 461 | 574 | 560 | 565 | --- | --- | e313 |
| 30 | --- | --- | --- | 464 | 295 | 427 | --- | --- | e584 | --- | --- | e238 |
| 31 | --- | --- | --- | 427 | 275 | 340 | --- | --- | --- | --- | --- | e299 |
| MONTH | --- | --- | 375 | 640 | 275 | 539 | --- | --- | 447 | --- | --- | 499 |

08064100 Chambers Creek near Rice, TX--Continued

SPECIFIC CONDUCTANCE (DCP 1788E306), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | e374 | --- | --- | e756 | 719 | 686 | 704 | --- | --- | e1150 |
| 2 | --- | --- | e478 | --- | --- | e562 | 745 | 717 | 726 | --- | --- | e1160 |
| 3 | --- | --- | e535 | --- | --- | e338 | 757 | 718 | 733 | --- | --- | e1170 |
| 4 | --- | --- | e540 | --- | --- | e320 | 782 | 757 | 768 | --- | --- | e1170 |
| 5 | --- | --- | e535 | --- | --- | e267 | 803 | 782 | 789 | --- | --- | e1170 |
| 6 | --- | --- | e575 | --- | --- | e246 | 831 | 803 | 819 | --- | --- | e1160 |
| 7 | --- | --- | e598 | --- | --- | e290 | 854 | 831 | 846 | --- | --- | e1180 |
| 8 | --- | --- | e606 | --- | --- | e382 | 873 | 851 | 865 | --- | --- | e1180 |
| 9 | --- | --- | e623 | --- | --- | e485 | 897 | 871 | 887 | --- | --- | e1180 |
| 10 | --- | --- | e650 | --- | --- | e512 | 919 | 897 | 907 | --- | --- | e1190 |
| 11 | --- | --- | e663 | 525 | 515 | 521 | 947 | 919 | 936 | --- | --- | e1180 |
| 12 | --- | --- | e673 | 536 | 518 | 527 | 991 | 947 | 969 | --- | --- | e1180 |
| 13 | --- | --- | e683 | 528 | 516 | 522 | 962 | 895 | 916 | --- | --- | e1180 |
| 14 | --- | --- | e690 | 546 | 528 | 539 | 917 | 897 | 908 | --- | --- | e1180 |
| 15 | --- | --- | e693 | 557 | 540 | 546 | 948 | 917 | 934 | --- | --- | e1180 |
| 16 | --- | --- | e700 | 558 | 474 | 523 | 994 | 948 | 972 | --- | --- | e1180 |
| 17 | --- | --- | e720 | 643 | 497 | 541 | 1020 | 994 | 1010 | --- | --- | e1190 |
| 18 | --- | --- | e735 | 602 | 376 | 456 | 1050 | 1010 | 1020 | --- | --- | e1200 |
| 19 | --- | --- | e702 | 497 | 468 | 480 | --- | --- | e1020 | --- | --- | e904 |
| 20 | --- | --- | e711 | 1040 | 367 | 484 | --- | --- | e1030 | --- | --- | e644 |
| 21 | --- | --- | e713 | 393 | 367 | 381 | --- | --- | e1070 | --- | --- | e682 |
| 22 | --- | --- | e652 | 393 | 376 | 386 | --- | --- | e1090 | --- | --- | e744 |
| 23 | --- | --- | e663 | 376 | 361 | 367 | --- | --- | e1110 | --- | --- | e807 |
| 24 | --- | --- | e690 | 389 | 362 | 371 | --- | --- | e1120 | --- | --- | e844 |
| 25 | --- | --- | e710 | 437 | 389 | 408 | --- | --- | e1130 | --- | --- | e882 |
| 26 | --- | --- | e719 | 493 | 437 | 475 | --- | --- | e1130 | --- | --- | e944 |
| 27 | --- | --- | e722 | 555 | 493 | 531 | --- | --- | e1140 | --- | --- | e978 |
| 28 | --- | --- | e736 | 597 | 555 | 580 | --- | --- | e1130 | --- | --- | e1010 |
| 29 | --- | --- | e739 | 642 | 597 | 620 | --- | --- | e1140 | --- | --- | e1050 |
| 30 | --- | --- | e739 | 667 | 642 | 654 | --- | --- | e1140 | --- | --- | e1070 |
| 31 | --- | --- | --- | 686 | 665 | 675 | --- | --- | e1150 | --- | --- | --- |
| MONTH | --- | --- | 652 | --- | --- | 476 | --- | --- | 971 | --- | --- | 1060 |

e Estimated



08064100 Chambers Creek near Rice, TX--Continued

WATER TEMPERATURE (DCP 1788E306), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

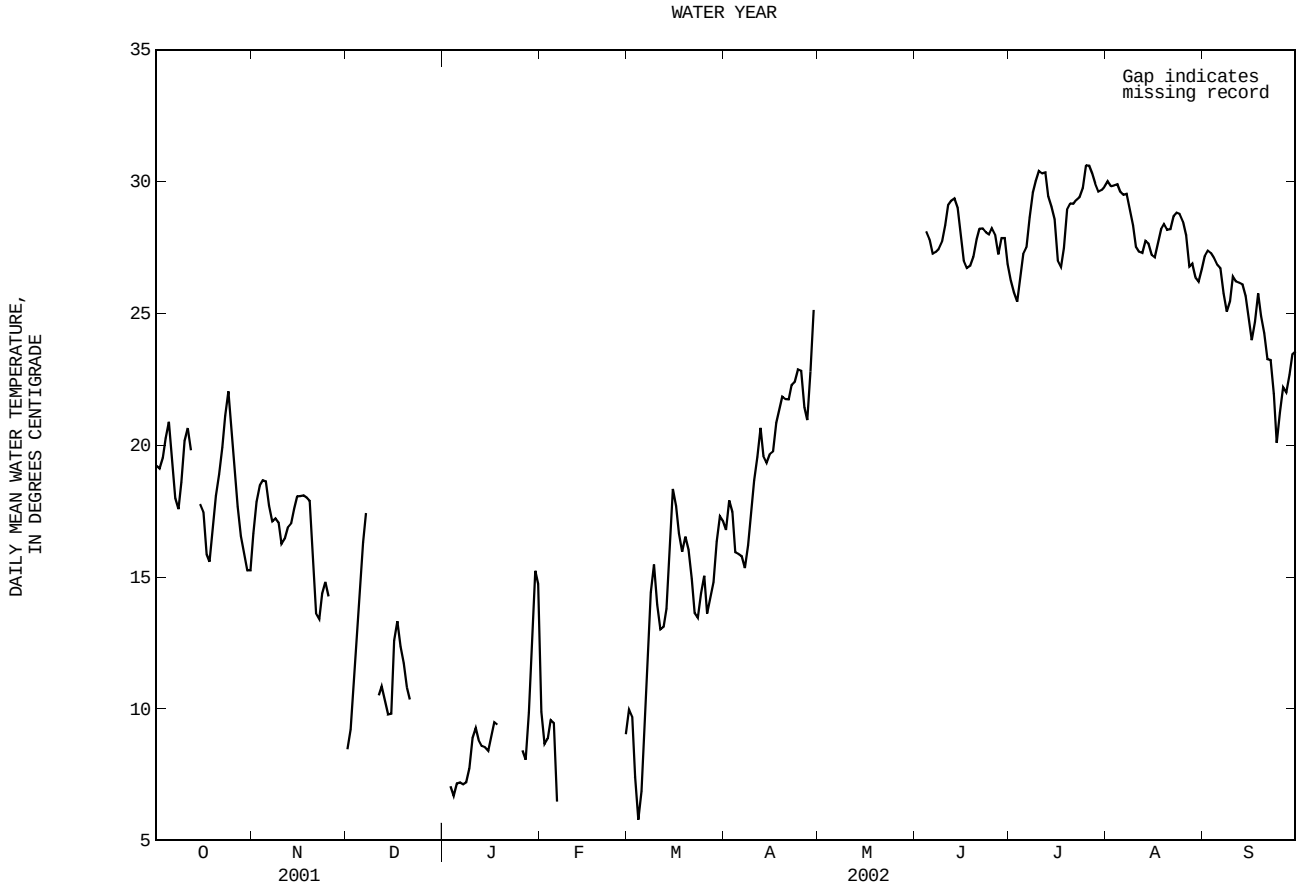
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 19.9 | 18.4 | 19.2 | 17.4 | 15.7 | 16.6 | 8.9 | 8.0 | 8.5 | --- | --- | --- |
| 2 | 19.8 | 18.2 | 19.1 | 18.4 | 17.3 | 17.8 | 10.0 | 8.5 | 9.2 | 7.5 | --- | --- |
| 3 | 20.3 | 18.6 | 19.5 | 19.0 | 18.0 | 18.5 | 11.4 | 10.0 | 10.6 | 7.4 | 6.7 | 7.1 |
| 4 | 21.0 | 19.5 | 20.3 | 19.1 | 18.2 | 18.7 | 13.4 | 11.4 | 12.5 | 7.0 | 6.5 | 6.7 |
| 5 | 21.4 | 20.3 | 20.9 | 19.0 | 18.2 | 18.6 | 15.5 | 13.4 | 14.5 | 7.4 | 6.8 | 7.2 |
| 6 | 20.3 | 18.8 | 19.5 | 18.3 | 17.2 | 17.7 | 17.1 | 15.4 | 16.3 | 7.7 | 6.8 | 7.2 |
| 7 | 18.8 | 17.1 | 18.0 | 17.5 | 16.6 | 17.1 | 17.9 | 17.0 | 17.4 | 7.7 | 6.7 | 7.1 |
| 8 | 18.4 | 16.8 | 17.6 | 17.8 | 16.6 | 17.2 | --- | --- | --- | 7.6 | 6.8 | 7.2 |
| 9 | 19.6 | 18.0 | 18.6 | 17.7 | 16.4 | 17.1 | --- | --- | --- | 8.8 | 7.0 | 7.7 |
| 10 | 21.4 | 19.4 | 20.2 | 16.5 | 16.0 | 16.2 | --- | --- | --- | 9.5 | 8.2 | 8.9 |
| 11 | 21.2 | 20.2 | 20.6 | 16.9 | 16.0 | 16.4 | 10.7 | 10.4 | 10.5 | 9.6 | 8.8 | 9.3 |
| 12 | 20.8 | 19.0 | 19.8 | 17.1 | 16.7 | 16.9 | 11.3 | 10.5 | 10.8 | 9.4 | 8.3 | 8.8 |
| 13 | 19.6 | --- | --- | 17.5 | 16.6 | 17.0 | 10.9 | 10.1 | 10.3 | 9.1 | 8.0 | 8.6 |
| 14 | --- | 16.9 | --- | 18.1 | 17.0 | 17.6 | 10.1 | 9.4 | 9.8 | 9.1 | 8.1 | 8.5 |
| 15 | 18.4 | 17.4 | 17.8 | 18.2 | 17.9 | 18.1 | 10.4 | 9.6 | 9.8 | 8.7 | 8.1 | 8.4 |
| 16 | 18.0 | 16.3 | 17.5 | 18.3 | 17.8 | 18.1 | 13.4 | 10.3 | 12.6 | 9.6 | 8.5 | 9.0 |
| 17 | 16.3 | 15.2 | 15.9 | 18.3 | 17.9 | 18.1 | 13.5 | 12.9 | 13.3 | 9.9 | 9.2 | 9.5 |
| 18 | 16.2 | 15.0 | 15.6 | 18.5 | 17.5 | 18.0 | 12.9 | 12.1 | 12.4 | 9.7 | 9.1 | 9.4 |
| 19 | 17.4 | 16.1 | 16.7 | 18.3 | 17.1 | 17.9 | 12.4 | 11.4 | 11.7 | --- | --- | --- |
| 20 | 18.9 | 17.2 | 18.1 | 17.1 | 14.7 | 15.8 | 11.8 | 10.4 | 10.8 | --- | --- | --- |
| 21 | 19.5 | 18.1 | 18.9 | 14.7 | 13.2 | 13.6 | 11.0 | 9.8 | 10.3 | --- | --- | --- |
| 22 | 20.7 | 19.3 | 19.9 | 13.7 | 13.2 | 13.4 | --- | --- | --- | --- | --- | --- |
| 23 | 21.7 | 20.6 | 21.1 | 15.1 | 13.4 | 14.4 | --- | --- | --- | --- | --- | --- |
| 24 | 22.6 | 21.6 | 22.0 | 15.2 | 14.4 | 14.8 | --- | --- | --- | --- | --- | --- |
| 25 | 21.6 | 19.7 | 20.4 | 14.7 | 13.7 | 14.3 | --- | --- | --- | 10.9 | --- | --- |
| 26 | 19.7 | 18.3 | 18.9 | --- | --- | --- | --- | --- | --- | 8.9 | 7.8 | 8.4 |
| 27 | 18.3 | 17.2 | 17.7 | --- | --- | --- | --- | --- | --- | 8.9 | 7.2 | 8.1 |
| 28 | 17.2 | 16.2 | 16.6 | --- | --- | --- | --- | --- | --- | 11.0 | 8.9 | 9.8 |
| 29 | 16.2 | 15.5 | 15.9 | --- | --- | --- | --- | --- | --- | 13.9 | 11.0 | 12.5 |
| 30 | 15.6 | 14.8 | 15.2 | 8.8 | --- | --- | --- | --- | --- | 16.2 | 13.9 | 15.2 |
| 31 | 15.7 | 14.7 | 15.3 | --- | --- | --- | --- | --- | --- | 15.9 | 9.6 | 14.7 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 10.9 | 9.5 | 9.9 | 10.4 | 9.6 | 10 | 18.3 | 15.9 | 16.8 | --- | --- | --- |
| 2 | 9.6 | 8.2 | 8.7 | 10.5 | 8.4 | 9.7 | 18.8 | 16.9 | 17.9 | --- | --- | --- |
| 3 | 9.1 | 8.7 | 8.9 | 8.4 | 6.0 | 7.4 | 18.8 | 16.5 | 17.5 | --- | --- | --- |
| 4 | 9.9 | 9.0 | 9.6 | 6.4 | 5.0 | 5.8 | 16.5 | 15.5 | 15.9 | --- | --- | --- |
| 5 | 10.0 | 7.6 | 9.5 | 7.9 | 5.6 | 6.9 | 16.5 | 15.4 | 15.9 | --- | --- | --- |
| 6 | 7.6 | 6.0 | 6.5 | 10.4 | 7.8 | 9.0 | 16.2 | 15.2 | 15.8 | --- | --- | --- |
| 7 | --- | --- | --- | 13.3 | 10.4 | 11.8 | 15.6 | 15.1 | 15.3 | --- | --- | --- |
| 8 | --- | --- | --- | 15.2 | 13.3 | 14.4 | 18.0 | 15.5 | 16.2 | --- | --- | --- |
| 9 | --- | --- | --- | 16.1 | 14.8 | 15.5 | 18.8 | 16.4 | 17.4 | --- | --- | --- |
| 10 | --- | --- | --- | 14.8 | 13.4 | 14.0 | 19.3 | 17.8 | 18.7 | --- | --- | --- |
| 11 | --- | --- | --- | 13.5 | 12.7 | 13.0 | 20.1 | 19.2 | 19.6 | --- | --- | --- |
| 12 | --- | --- | --- | 14.3 | 12.5 | 13.1 | 21.3 | 19.4 | 20.7 | --- | --- | --- |
| 13 | --- | --- | --- | 15.3 | 12.8 | 13.8 | 20.2 | 18.6 | 19.6 | --- | --- | --- |
| 14 | --- | --- | --- | 17.8 | 14.8 | 16.0 | 19.9 | 18.7 | 19.3 | --- | --- | --- |
| 15 | --- | --- | --- | 19.4 | 17.3 | 18.3 | 20.3 | 19.0 | 19.7 | --- | --- | --- |
| 16 | --- | --- | --- | 18.1 | 17.2 | 17.7 | 20.3 | 18.9 | 19.8 | --- | --- | --- |
| 17 | --- | --- | --- | 17.2 | 16.0 | 16.6 | 22.5 | 19.5 | 20.8 | --- | --- | --- |
| 18 | --- | --- | --- | 16.4 | 15.6 | 16.0 | 22.5 | 20.0 | 21.3 | --- | --- | --- |
| 19 | --- | --- | --- | 17.0 | 16.0 | 16.5 | 22.4 | 21.4 | 21.9 | --- | --- | --- |
| 20 | --- | --- | --- | 16.9 | 15.4 | 16.0 | 22.1 | 21.4 | 21.7 | --- | --- | --- |
| 21 | --- | --- | --- | 15.5 | 14.4 | 14.9 | 22.0 | 21.4 | 21.7 | --- | --- | --- |
| 22 | --- | --- | --- | 15.4 | 12.8 | 13.6 | 22.9 | 21.6 | 22.3 | --- | --- | --- |
| 23 | --- | --- | --- | 13.8 | 13.1 | 13.5 | 23.2 | 21.6 | 22.4 | --- | --- | --- |
| 24 | --- | --- | --- | 14.9 | 13.7 | 14.4 | 23.9 | 21.8 | 22.9 | --- | --- | --- |
| 25 | --- | --- | --- | 15.5 | 14.1 | 15.0 | 23.4 | 22.1 | 22.8 | --- | --- | --- |
| 26 | --- | --- | --- | 14.1 | 13.0 | 13.6 | 22.1 | 20.8 | 21.4 | --- | --- | --- |
| 27 | 9.3 | --- | --- | 15.2 | 13.3 | 14.2 | 21.8 | 20.3 | 20.9 | --- | --- | --- |
| 28 | 10.2 | 8.0 | 9.0 | 15.9 | 14.0 | 14.8 | 24.1 | 21.7 | 22.8 | --- | --- | --- |
| 29 | --- | --- | --- | 17.6 | 15.4 | 16.3 | 26.6 | 23.9 | 25.1 | --- | --- | --- |
| 30 | --- | --- | --- | 17.6 | 16.8 | 17.3 | --- | 26.1 | --- | --- | --- | --- |
| 31 | --- | --- | --- | 17.6 | 16.6 | 17.1 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | 19.4 | 5.0 | 13.7 | --- | 15.1 | --- | --- | --- | --- |

08064100 Chambers Creek near Rice, TX--Continued

WATER TEMPERATURE (DCP 1788E306), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | 26.6 | 25.9 | 26.2 | 31.7 | 28.9 | 30.0 | 29.3 | 25.0 | 27.2 |
| 2 | --- | --- | --- | 26.2 | 25.3 | 25.8 | 31.7 | 28.5 | 29.8 | 29.9 | 25.2 | 27.4 |
| 3 | 28.3 | --- | --- | 25.6 | 25.0 | 25.4 | 31.2 | 28.8 | 29.8 | 29.3 | 25.4 | 27.3 |
| 4 | 28.7 | 27.6 | 28.1 | 27.5 | 25.6 | 26.2 | 31.5 | 28.8 | 29.9 | 29.0 | 25.7 | 27.1 |
| 5 | 28.1 | 27.4 | 27.8 | 28.1 | 26.2 | 27.2 | 31.0 | 28.3 | 29.6 | 28.4 | 25.2 | 26.8 |
| 6 | 27.8 | 26.4 | 27.3 | 28.3 | 26.6 | 27.5 | 31.3 | 28.0 | 29.5 | 28.6 | 24.9 | 26.7 |
| 7 | 27.9 | 26.7 | 27.3 | 29.4 | 27.9 | 28.6 | 31.3 | 28.0 | 29.5 | 26.9 | 24.9 | 25.8 |
| 8 | 28.1 | 26.8 | 27.4 | 30.7 | 28.6 | 29.6 | 29.7 | 28.1 | 29.0 | 25.6 | 24.7 | 25.1 |
| 9 | 28.4 | 27.3 | 27.7 | 30.9 | 29.0 | 30.0 | 29.8 | 26.9 | 28.3 | 27.0 | 24.3 | 25.5 |
| 10 | 29.3 | 27.7 | 28.3 | 31.1 | 29.6 | 30.4 | 28.7 | 26.7 | 27.5 | 28.5 | 24.5 | 26.4 |
| 11 | 30.1 | 28.4 | 29.1 | 31.0 | 29.5 | 30.3 | 29.1 | 25.9 | 27.3 | 28.2 | 24.4 | 26.2 |
| 12 | 30.1 | 28.6 | 29.3 | 31.4 | 29.7 | 30.3 | 28.7 | 26.1 | 27.3 | 28.3 | 24.3 | 26.2 |
| 13 | 30.3 | 28.6 | 29.4 | 30.0 | 28.8 | 29.4 | 29.3 | 26.5 | 27.7 | 27.7 | 24.6 | 26.1 |
| 14 | 29.9 | 27.9 | 29.0 | 29.9 | 28.2 | 29.0 | 28.6 | 26.8 | 27.7 | 27.4 | 23.9 | 25.6 |
| 15 | 28.8 | 27.0 | 28.0 | 29.3 | 28.1 | 28.6 | 27.8 | 26.7 | 27.2 | 25.6 | 23.7 | 24.8 |
| 16 | 28.0 | 26.4 | 27.0 | 28.1 | 26.4 | 27.0 | 28.8 | 25.8 | 27.1 | 25.2 | 23.3 | 24.0 |
| 17 | 27.8 | 25.6 | 26.7 | 27.3 | 26.3 | 26.8 | 29.2 | 26.3 | 27.7 | 27.4 | 22.8 | 24.7 |
| 18 | 27.9 | 25.7 | 26.8 | 28.7 | 26.2 | 27.5 | 30.2 | 26.6 | 28.2 | 27.3 | 24.6 | 25.8 |
| 19 | 28.1 | 26.2 | 27.1 | 29.9 | 28.2 | 28.9 | 29.9 | 26.9 | 28.4 | 25.3 | 24.3 | 24.9 |
| 20 | 28.8 | 26.9 | 27.8 | 29.6 | 28.4 | 29.2 | 29.8 | 26.6 | 28.2 | 26.3 | 22.4 | 24.2 |
| 21 | 29.3 | 27.2 | 28.2 | 29.3 | 28.9 | 29.1 | 30.0 | 26.6 | 28.2 | 25.6 | 21.0 | 23.3 |
| 22 | 29.1 | 27.3 | 28.2 | 29.6 | 29.0 | 29.3 | 30.5 | 27.0 | 28.7 | 25.5 | 21.5 | 23.2 |
| 23 | 29.0 | 27.1 | 28.1 | 29.8 | 29.2 | 29.4 | 31.2 | 26.8 | 28.8 | 23.9 | 19.9 | 21.9 |
| 24 | 28.8 | 27.1 | 28.0 | 31.0 | 28.6 | 29.7 | 30.8 | 26.9 | 28.8 | 22.4 | 17.0 | 20.1 |
| 25 | 29.1 | 27.2 | 28.2 | 31.8 | 29.6 | 30.6 | 31.0 | 26.8 | 28.5 | 23.9 | 18.9 | 21.2 |
| 26 | 28.7 | 27.4 | 28.0 | 31.6 | 29.6 | 30.6 | 30.2 | 26.3 | 28.0 | 24.9 | 20.2 | 22.2 |
| 27 | 28.1 | 26.4 | 27.2 | 31.1 | 29.3 | 30.3 | 28.3 | 25.8 | 26.8 | 25.2 | 18.7 | 22.0 |
| 28 | 28.7 | 27.2 | 27.9 | 30.4 | 29.2 | 29.9 | 28.9 | 25.1 | 26.9 | 25.7 | 19.4 | 22.7 |
| 29 | 28.3 | 27.4 | 27.9 | 30.0 | 29.1 | 29.6 | 27.5 | 24.9 | 26.4 | 26.1 | 20.9 | 23.5 |
| 30 | 27.6 | 26.5 | 26.9 | 31.1 | 28.7 | 29.7 | 28.0 | 24.0 | 26.2 | 26.1 | 21.6 | 23.6 |
| 31 | --- | --- | --- | 31.3 | 28.8 | 29.8 | 28.6 | 24.6 | 26.7 | --- | --- | --- |
| MONTH | --- | --- | --- | 31.8 | 25.0 | 28.8 | 31.7 | 24.0 | 28.2 | 29.9 | 17.0 | 24.7 |



## 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 mi southeast of Corsicana.

DRAINAGE AREA.--12.0 $mi^2$.

PERIOD OF RECORD.--Apr. 1999 to current year.

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 poor. 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 to 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. Conservation pool storage is 6,033 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 375.0 |
| Crest of spillway (top of conservation pool) | 368.0 |

COOPERATION.--Capacity table furnished by Texas Water Development Board survey Nov. 1999.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,530 acre-ft, Apr. 8, 2002, elevation, 367.12 ft; minimum contents, 2,670 acre-ft, Feb. 17, 18, 2000, elevation, 361,17 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,530 acre-ft, Apr. 8, elevation, 367.12 ft; minimum contents, 3,420 acre-ft, Nov. 27, elevation, 362.97 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

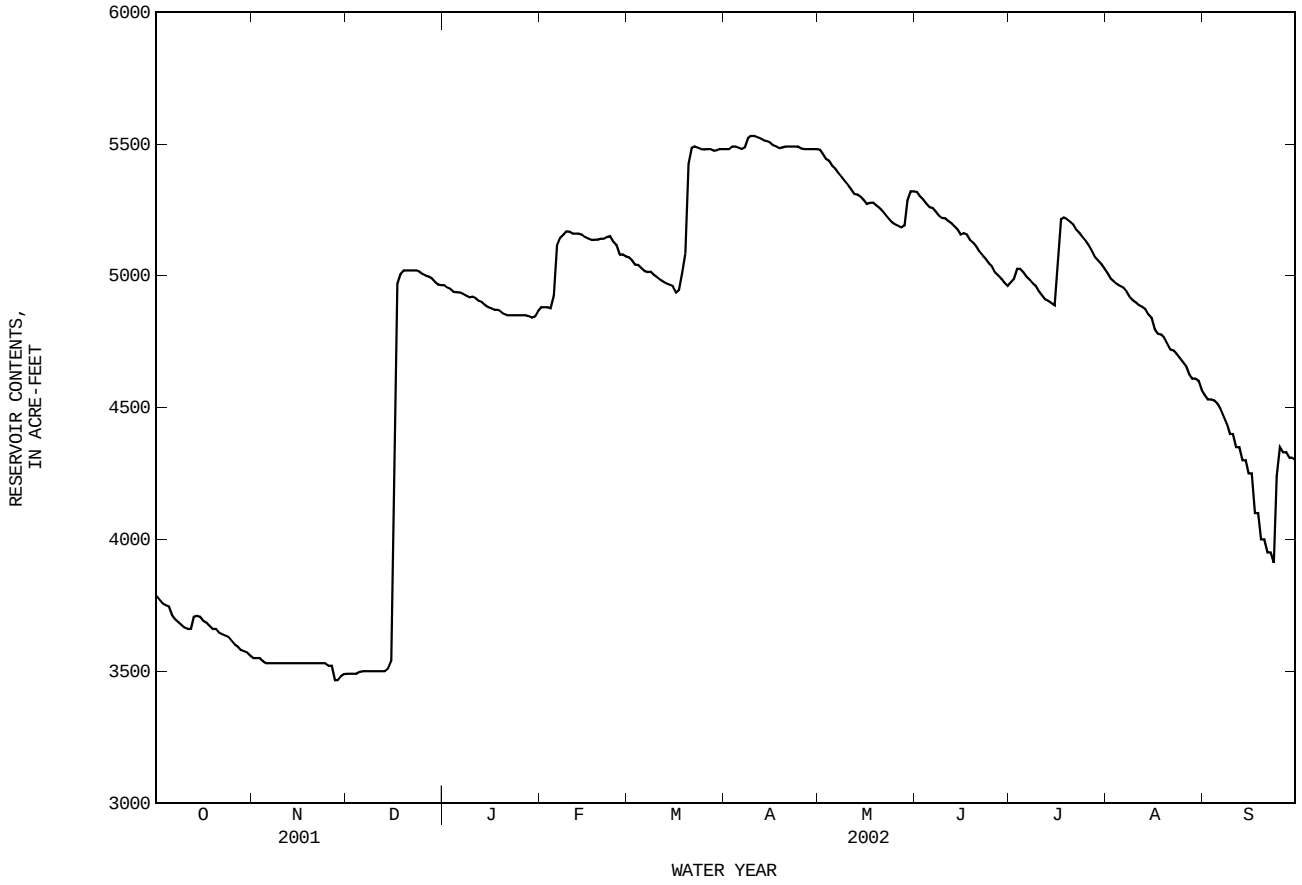
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3780 | 3550 | 3490 | 4960 | 4880 | 5070 | 5480 | 5480 | 5320 | 4970 | 5010 | 4550 |
| 2 | 3770 | 3550 | 3490 | 4950 | 4880 | 5060 | 5480 | 5460 | 5300 | 4990 | 4990 | 4530 |
| 3 | 3760 | 3550 | 3490 | 4950 | 4880 | 5040 | 5490 | 5440 | 5290 | 5030 | 4980 | 4530 |
| 4 | 3750 | 3540 | 3490 | 4940 | 4880 | 5040 | 5490 | 5440 | 5270 | 5030 | 4970 | 4530 |
| 5 | 3740 | 3530 | 3500 | 4940 | 4920 | 5030 | 5480 | 5420 | 5260 | 5010 | 4960 | 4510 |
| 6 | 3710 | 3530 | 3500 | 4940 | 5120 | 5020 | 5480 | 5410 | 5260 | 5000 | 4950 | 4500 |
| 7 | 3700 | 3530 | 3500 | 4930 | 5140 | 5010 | 5490 | 5390 | 5240 | 4980 | 4940 | 4470 |
| 8 | 3690 | 3530 | 3500 | 4920 | 5160 | 5010 | 5520 | 5370 | 5230 | 4970 | 4920 | 4440 |
| 9 | 3680 | 3530 | 3500 | 4920 | 5170 | 5000 | 5530 | 5360 | 5220 | 4960 | 4910 | e4400 |
| 10 | 3660 | 3530 | 3500 | 4920 | 5170 | 4990 | 5530 | 5340 | 5220 | 4940 | 4900 | e4400 |
| 11 | 3660 | 3530 | 3500 | 4910 | 5160 | 4980 | 5520 | 5330 | 5210 | 4930 | 4890 | e4350 |
| 12 | 3660 | 3530 | 3500 | 4900 | 5160 | 4980 | 5520 | 5310 | 5200 | 4910 | 4880 | e4350 |
| 13 | 3710 | 3530 | 3500 | 4900 | 5160 | 4970 | 5510 | 5310 | 5190 | 4900 | 4870 | e4300 |
| 14 | 3710 | 3530 | 3510 | 4890 | 5160 | 4960 | 5510 | 5300 | 5170 | 4900 | 4850 | e4300 |
| 15 | 3710 | 3530 | 3540 | 4880 | 5150 | 4960 | 5510 | 5290 | 5160 | 4890 | 4840 | e4250 |
| 16 | 3690 | 3530 | 4160 | 4870 | 5140 | 4940 | 5500 | 5270 | 5160 | 5060 | 4800 | e4250 |
| 17 | 3680 | 3530 | 4970 | 4870 | 5140 | 4950 | 5490 | 5280 | 5160 | 5210 | 4780 | e4100 |
| 18 | 3670 | 3530 | 5010 | 4870 | 5140 | 5010 | 5480 | 5280 | 5140 | 5220 | 4780 | e4100 |
| 19 | 3660 | 3530 | 5020 | 4860 | 5140 | 5080 | 5490 | 5270 | 5130 | 5210 | 4770 | e4000 |
| 20 | 3660 | 3530 | 5020 | 4850 | 5140 | 5420 | 5490 | 5260 | 5110 | 5200 | 4740 | e4000 |
| 21 | 3650 | 3530 | 5020 | 4850 | 5140 | 5480 | 5490 | 5250 | 5090 | 5190 | 4720 | e3950 |
| 22 | 3640 | 3530 | 5020 | 4850 | 5150 | 5490 | 5490 | 5230 | 5080 | 5170 | 4720 | e3950 |
| 23 | 3640 | 3530 | 5020 | 4850 | 5150 | 5480 | 5490 | 5210 | 5060 | 5160 | 4700 | e3910 |
| 24 | 3630 | 3530 | 5020 | 4850 | 5130 | 5480 | 5490 | 5200 | 5050 | 5140 | 4690 | e4240 |
| 25 | 3620 | 3520 | 5010 | 4850 | 5120 | 5480 | 5480 | 5190 | 5040 | 5130 | 4670 | e4350 |
| 26 | 3600 | 3520 | 5000 | 4850 | 5080 | 5480 | 5480 | 5190 | 5010 | 5110 | 4660 | e4330 |
| 27 | 3590 | 3470 | 5000 | 4850 | 5080 | 5480 | 5480 | 5180 | 5000 | 5090 | 4620 | e4330 |
| 28 | 3580 | 3470 | 4990 | 4850 | 5070 | 5470 | 5480 | 5190 | 4990 | 5070 | 4610 | e4310 |
| 29 | 3580 | 3480 | 4980 | 4840 | --- | 5480 | 5480 | 5290 | 4970 | 5060 | 4610 | e4310 |
| 30 | 3570 | 3490 | 4970 | 4850 | --- | 5480 | 5480 | 5320 | 4960 | 5040 | 4600 | e4300 |
| 31 | 3560 | --- | 4960 | 4860 | --- | 5480 | --- | 5320 | --- | 5030 | 4570 | --- |
| MEAN | 3670 | 3520 | 4250 | 4890 | 5090 | 5190 | 5490 | 5310 | 5150 | 5050 | 4800 | 4290 |
| MAX | 3780 | 3550 | 5020 | 4960 | 5170 | 5490 | 5530 | 5480 | 5320 | 5220 | 5010 | 4550 |
| MIN | 3560 | 3470 | 3490 | 4840 | 4880 | 4940 | 5480 | 5180 | 4960 | 4890 | 4570 | 3910 |
| (+) | 363.26 | 363.11 | 366.07 | 365.88 | 366.28 | 367.03 | 367.03 | 366.74 | 366.07 | 366.19 | 365.31 | e364.80 |
| (@) | -220 | -70 | +1470 | -100 | +210 | +410 | 0 | -160 | -360 | +70 | -460 | -270 |

CAL YR 2001 MAX 5410 MIN 3470 (@) +140
WTR YR 2002 MAX 5530 MIN 3470 (@) +520

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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 $mi^2$.

PERIOD OF RECORD.--Nov. 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--Records good, except for estimated daily mean contents, which are fair. The reservoir is formed by a rolled earthfill dam 31,000 ft long. Deliberate impoundment of water began Jul. 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 $mi^2$ above the dam is controlled by Bardwell and Navarro Mills Lakes. Conservation pool storage is 1,136,600 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 330.0 |
| Top of gates | 317.3 |
| Top of conservation pool | 314.2 |
| Crest of spillway | 290.0 |
| Lowest gated outlet | 266.0 |

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, 1,204,000 acre-ft, Mar. 2, elevation, 316.61 ft; minimum contents, 1,023,000 acre-ft, Oct. 15, elevation, 312.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,192,000 acre-ft, Dec. 19, elevation, 316.32 ft; minimum contents, 1,033,000 acre-ft, Nov. 27, 28, Dec. 11, elevation, 312.47 ft.

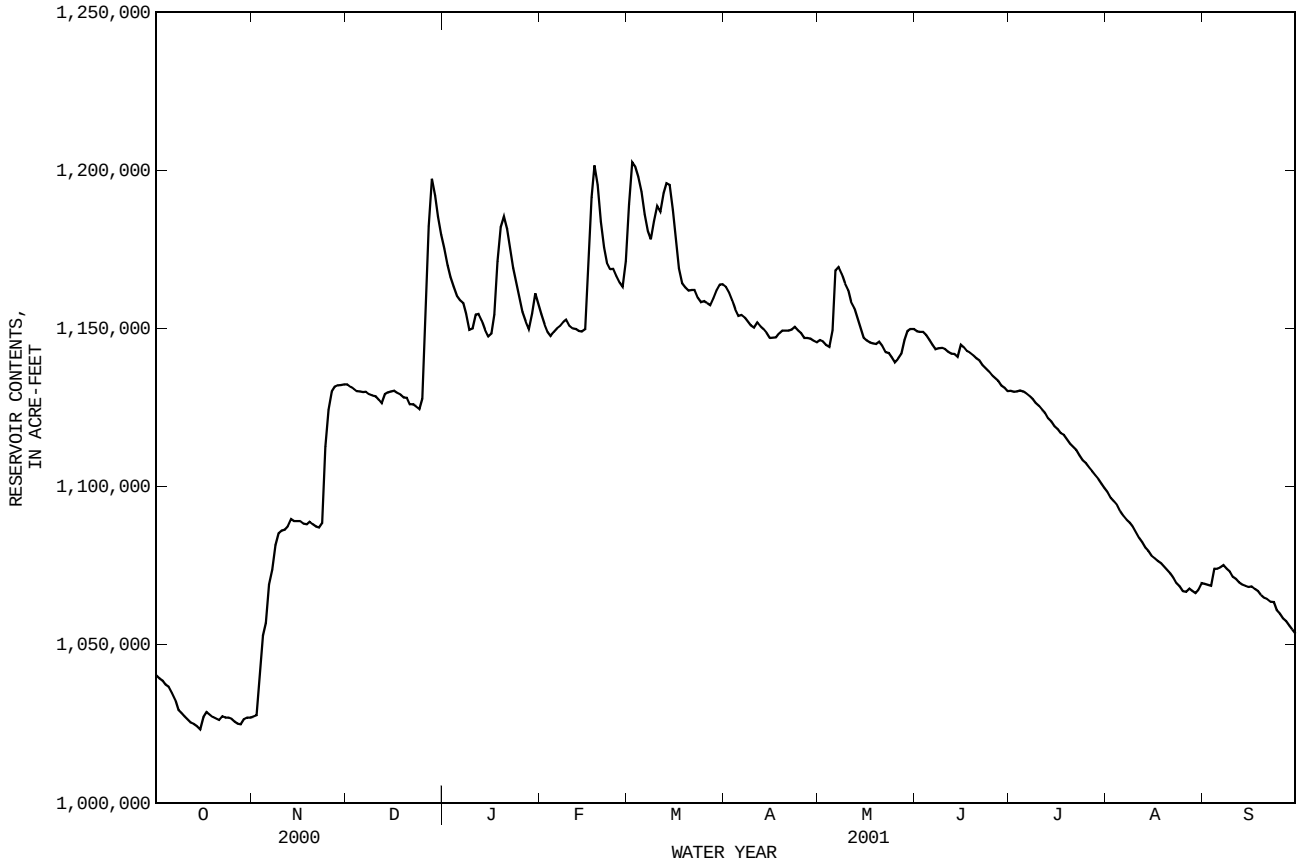
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1040000 | 1027000 | 1132000 | 1175000 | 1154000 | 1189000 | 1163000 | 1146000 | 1149000 | 1130000 | 1098000 | 1069000 |
| 2 | 1039000 | 1028000 | 1131000 | 1170000 | 1151000 | 1202000 | 1161000 | 1146000 | 1149000 | 1130000 | 1096000 | 1069000 |
| 3 | 1039000 | 1039000 | 1131000 | 1166000 | 1149000 | 1201000 | 1159000 | 1145000 | 1149000 | 1130000 | 1095000 | 1069000 |
| 4 | 1037000 | 1053000 | 1130000 | 1163000 | 1148000 | 1198000 | 1156000 | 1144000 | 1148000 | 1130000 | 1094000 | 1074000 |
| 5 | 1037000 | 1057000 | 1130000 | 1160000 | 1149000 | 1193000 | 1154000 | 1149000 | 1146000 | 1130000 | 1092000 | 1074000 |
| 6 | 1035000 | 1069000 | 1130000 | 1159000 | 1150000 | 1186000 | 1154000 | 1168000 | 1145000 | 1129000 | 1091000 | 1074000 |
| 7 | 1033000 | 1074000 | 1130000 | 1158000 | 1151000 | 1181000 | 1153000 | 1169000 | 1143000 | 1129000 | 1090000 | 1075000 |
| 8 | 1029000 | 1081000 | 1129000 | 1155000 | 1152000 | 1178000 | 1152000 | 1167000 | 1144000 | 1128000 | 1089000 | 1074000 |
| 9 | 1028000 | 1085000 | 1129000 | 1150000 | 1153000 | 1184000 | 1151000 | 1164000 | 1144000 | 1126000 | 1087000 | 1073000 |
| 10 | 1027000 | 1086000 | 1129000 | 1150000 | 1151000 | 1189000 | 1150000 | 1162000 | 1143000 | 1126000 | 1086000 | 1072000 |
| 11 | 1026000 | 1086000 | 1127000 | 1154000 | 1150000 | 1187000 | 1152000 | 1158000 | 1143000 | 1124000 | 1084000 | 1071000 |
| 12 | 1025000 | 1088000 | 1126000 | 1155000 | 1150000 | 1193000 | 1151000 | 1156000 | 1142000 | 1123000 | 1082000 | 1070000 |
| 13 | 1025000 | 1090000 | 1129000 | 1152000 | 1149000 | 1196000 | 1150000 | 1153000 | 1142000 | 1122000 | 1081000 | 1069000 |
| 14 | 1024000 | 1089000 | 1130000 | 1150000 | 1149000 | 1195000 | 1149000 | 1150000 | 1141000 | 1121000 | 1080000 | 1069000 |
| 15 | 1023000 | 1089000 | 1130000 | 1148000 | 1150000 | 1187000 | 1147000 | 1147000 | 1145000 | 1119000 | 1078000 | 1068000 |
| 16 | 1027000 | 1089000 | 1130000 | 1148000 | 1171000 | 1177000 | 1147000 | 1146000 | 1144000 | 1118000 | 1077000 | 1068000 |
| 17 | 1029000 | 1088000 | 1130000 | 1154000 | 1191000 | 1169000 | 1147000 | 1146000 | 1143000 | 1117000 | 1076000 | 1068000 |
| 18 | 1028000 | 1088000 | 1129000 | 1171000 | 1201000 | 1164000 | 1148000 | 1145000 | 1142000 | 1116000 | 1076000 | 1067000 |
| 19 | 1027000 | 1089000 | 1128000 | 1182000 | 1195000 | 1163000 | 1149000 | 1145000 | 1141000 | 1115000 | 1075000 | 1066000 |
| 20 | 1027000 | 1088000 | 1128000 | 1185000 | 1184000 | 1162000 | 1149000 | 1146000 | 1140000 | 1113000 | 1074000 | 1065000 |
| 21 | 1026000 | 1087000 | 1126000 | 1181000 | 1176000 | 1162000 | 1149000 | 1144000 | 1140000 | 1112000 | 1072000 | 1064000 |
| 22 | 1027000 | 1087000 | 1126000 | 1175000 | 1171000 | 1162000 | 1150000 | 1143000 | 1138000 | 1112000 | 1071000 | 1064000 |
| 23 | 1027000 | 1088000 | 1125000 | 1169000 | 1169000 | 1160000 | 1150000 | 1142000 | 1137000 | 1110000 | 1069000 | 1063000 |
| 24 | 1027000 | 1113000 | 1124000 | 1165000 | 1169000 | 1158000 | 1149000 | 1141000 | 1136000 | 1108000 | 1068000 | 1061000 |
| 25 | 1027000 | 1124000 | 1128000 | 1160000 | 1167000 | 1159000 | 1148000 | 1139000 | 1135000 | 1107000 | 1067000 | 1060000 |
| 26 | 1026000 | 1130000 | 1154000 | 1155000 | 1165000 | 1158000 | 1147000 | 1140000 | 1134000 | 1106000 | 1067000 | 1058000 |
| 27 | 1025000 | 1132000 | 1182000 | 1152000 | 1163000 | 1157000 | 1147000 | 1142000 | 1133000 | 1105000 | 1068000 | 1057000 |
| 28 | 1025000 | 1132000 | 1197000 | 1150000 | 1171000 | 1160000 | 1147000 | 1146000 | 1132000 | 1104000 | 1067000 | 1056000 |
| 29 | 1026000 | 1132000 | 1192000 | 1155000 | --- | 1162000 | 1146000 | 1149000 | 1131000 | 1102000 | 1066000 | 1055000 |
| 30 | 1027000 | 1132000 | 1185000 | 1161000 | --- | 1164000 | 1146000 | 1150000 | 1130000 | 1101000 | 1067000 | 1053000 |
| 31 | 1027000 | --- | 1180000 | 1158000 | --- | 1164000 | --- | 1150000 | --- | 1099000 | 1069000 | --- |
| MEAN | 1029000 | 1088000 | 1139000 | 1161000 | 1162000 | 1176000 | 1151000 | 1150000 | 1141000 | 1117000 | 1079000 | 1066000 |
| MAX | 1040000 | 1132000 | 1197000 | 1185000 | 1201000 | 1202000 | 1163000 | 1169000 | 1149000 | 1130000 | 1098000 | 1075000 |
| MIN | 1023000 | 1027000 | 1124000 | 1148000 | 1148000 | 1157000 | 1146000 | 1139000 | 1130000 | 1099000 | 1066000 | 1053000 |
| (+) | 312.30 | 314.90 | 316.04 | 315.52 | 315.84 | 315.66 | 315.22 | 315.32 | 314.85 | 314.10 | 313.36 | 312.96 |
| (@) | -14000 | +105000 | +48000 | -22000 | +13000 | -7000 | -18000 | +4000 | -20000 | -31000 | -30000 | -16000 |

CAL YR 2000 MAX 1197000 MIN 958700 (@) +209500
WTR YR 2001 MAX 1202000 MIN 1023000 (@) +12000

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08064550 Richland-Chambers Reservoir near Kerens, TX--Continued



08064550 Richland-Chambers Reservoir near Kerens, TX--Continued

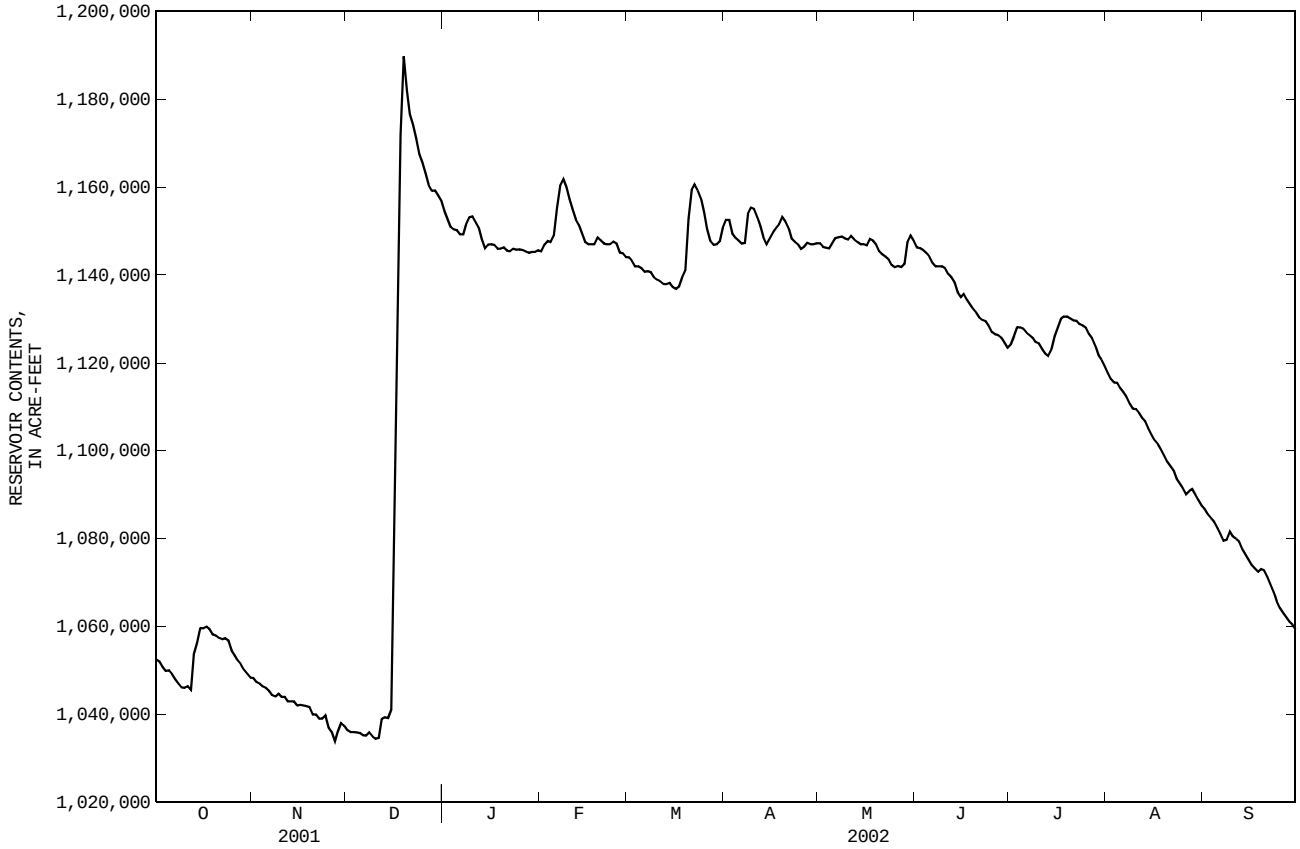
RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1052000 | 1048000 | 1036000 | 1155000 | 1145000 | 1144000 | 1153000 | 1147000 | 1146000 | 1124000 | 1118000 | 1087000 |
| 2 | 1052000 | 1047000 | 1036000 | 1153000 | 1147000 | 1143000 | 1153000 | 1146000 | 1146000 | 1126000 | 1116000 | 1086000 |
| 3 | 1051000 | 1047000 | 1036000 | 1151000 | 1148000 | 1142000 | 1149000 | 1146000 | 1146000 | 1128000 | 1116000 | 1085000 |
| 4 | 1050000 | 1046000 | 1036000 | 1150000 | 1147000 | 1142000 | 1149000 | 1146000 | 1145000 | 1128000 | 1115000 | 1084000 |
| 5 | 1050000 | 1046000 | 1036000 | 1150000 | 1149000 | 1142000 | 1148000 | 1147000 | 1144000 | 1128000 | 1114000 | 1082000 |
| 6 | 1049000 | 1045000 | 1035000 | 1149000 | 1155000 | 1141000 | 1147000 | 1148000 | 1143000 | 1127000 | 1113000 | 1081000 |
| 7 | 1048000 | 1044000 | 1035000 | 1149000 | 1160000 | 1141000 | 1147000 | 1149000 | 1142000 | 1126000 | 1112000 | 1080000 |
| 8 | 1047000 | 1044000 | 1036000 | 1152000 | 1162000 | 1141000 | 1154000 | 1149000 | 1142000 | 1126000 | 1111000 | 1080000 |
| 9 | 1046000 | 1045000 | 1035000 | 1153000 | 1160000 | 1139000 | 1155000 | 1148000 | 1142000 | 1125000 | 1110000 | 1082000 |
| 10 | 1046000 | e1044000 | 1034000 | 1153000 | 1157000 | 1139000 | 1155000 | 1148000 | 1142000 | 1124000 | 1109000 | 1080000 |
| 11 | 1046000 | e1044000 | 1035000 | 1152000 | 1155000 | 1139000 | 1153000 | 1149000 | 1140000 | 1123000 | 1109000 | 1080000 |
| 12 | 1046000 | e1043000 | 1039000 | 1151000 | 1153000 | 1138000 | 1151000 | 1148000 | 1140000 | 1122000 | 1107000 | 1079000 |
| 13 | 1054000 | e1043000 | 1039000 | 1148000 | 1151000 | 1138000 | 1149000 | 1148000 | 1138000 | 1122000 | 1107000 | 1078000 |
| 14 | 1056000 | e1043000 | 1039000 | 1146000 | 1150000 | 1138000 | 1147000 | 1147000 | 1136000 | e1123000 | 1105000 | 1076000 |
| 15 | 1060000 | 1042000 | 1041000 | 1147000 | 1147000 | 1137000 | 1148000 | 1147000 | 1135000 | e1126000 | 1104000 | 1075000 |
| 16 | 1060000 | 1042000 | 1065000 | 1147000 | 1147000 | 1137000 | 1150000 | 1147000 | 1136000 | e1128000 | 1102000 | 1074000 |
| 17 | 1060000 | 1042000 | 1117000 | 1147000 | 1147000 | 1137000 | 1151000 | 1148000 | 1134000 | e1130000 | 1101000 | 1073000 |
| 18 | 1059000 | 1042000 | 1172000 | 1146000 | 1147000 | 1139000 | 1152000 | 1148000 | 1133000 | 1131000 | 1100000 | 1072000 |
| 19 | 1058000 | 1042000 | 1190000 | 1146000 | 1149000 | 1141000 | 1153000 | 1147000 | 1132000 | 1131000 | 1099000 | 1073000 |
| 20 | 1058000 | e1040000 | 1182000 | 1146000 | 1148000 | 1153000 | 1152000 | 1145000 | 1131000 | 1130000 | 1098000 | 1073000 |
| 21 | 1057000 | e1040000 | 1177000 | 1146000 | 1147000 | 1159000 | 1151000 | 1145000 | 1130000 | 1130000 | 1096000 | 1071000 |
| 22 | 1057000 | e1039000 | 1174000 | 1145000 | 1147000 | 1161000 | 1148000 | 1144000 | 1130000 | 1130000 | 1095000 | 1070000 |
| 23 | 1057000 | e1039000 | 1171000 | 1146000 | 1147000 | 1159000 | 1148000 | 1144000 | 1129000 | 1129000 | 1094000 | 1068000 |
| 24 | 1057000 | e1040000 | 1167000 | 1146000 | 1148000 | 1157000 | 1147000 | 1142000 | 1128000 | 1128000 | 1093000 | 1066000 |
| 25 | 1055000 | 1037000 | 1166000 | 1146000 | 1147000 | 1154000 | 1146000 | 1142000 | 1127000 | 1128000 | 1091000 | 1064000 |
| 26 | 1053000 | 1036000 | 1163000 | 1146000 | 1145000 | 1150000 | 1146000 | 1142000 | 1127000 | 1127000 | 1090000 | 1063000 |
| 27 | 1052000 | 1034000 | 1160000 | 1145000 | 1145000 | 1148000 | 1147000 | 1142000 | 1126000 | 1126000 | 1091000 | 1062000 |
| 28 | 1051000 | 1036000 | 1159000 | 1145000 | 1144000 | 1147000 | 1147000 | 1143000 | 1126000 | 1124000 | 1091000 | 1061000 |
| 29 | 1050000 | 1038000 | 1159000 | 1145000 | --- | 1147000 | 1147000 | 1147000 | 1125000 | 1122000 | 1090000 | 1060000 |
| 30 | 1049000 | 1037000 | 1158000 | 1145000 | --- | 1148000 | 1147000 | 1149000 | 1123000 | 1121000 | 1089000 | 1059000 |
| 31 | 1048000 | --- | 1157000 | 1146000 | --- | 1151000 | --- | 1148000 | --- | 1119000 | 1087000 | --- |
| MEAN | 1053000 | 1042000 | 1100000 | 1148000 | 1150000 | 1145000 | 1150000 | 1146000 | 1135000 | 1126000 | 1102000 | 1074000 |
| MAX | 1060000 | 1048000 | 1190000 | 1155000 | 1162000 | 1161000 | 1155000 | 1149000 | 1146000 | 1131000 | 1118000 | 1087000 |
| MIN | 1046000 | 1034000 | 1034000 | 1145000 | 1144000 | 1137000 | 1146000 | 1142000 | 1123000 | 1119000 | 1087000 | 1059000 |
| (+) | 312.85 | 312.57 | 315.49 | 315.22 | 315.19 | 315.34 | 315.26 | 315.27 | 314.68 | 314.58 | 313.81 | 313.12 |
| (@) | -5000 | -11000 | +120000 | -11000 | -2000 | +7000 | -4000 | +1000 | -25000 | -4000 | -32000 | -28000 |

CAL YR 2001 MAX 1202000 MIN 1034000 (@) -23000
WTR YR 2002 MAX 1190000 MIN 1034000 (@) +6000

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.


1,200,000
1,180,000
1,160,000
1,140,000
1,120,000
1,100,000
1,080,000
1,060,000
1,040,000
1,020,000
RESERVOIR CONTENTS,
IN ACRE-FEET
O
N
D
J
F
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A
M
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A
S
2001
2002

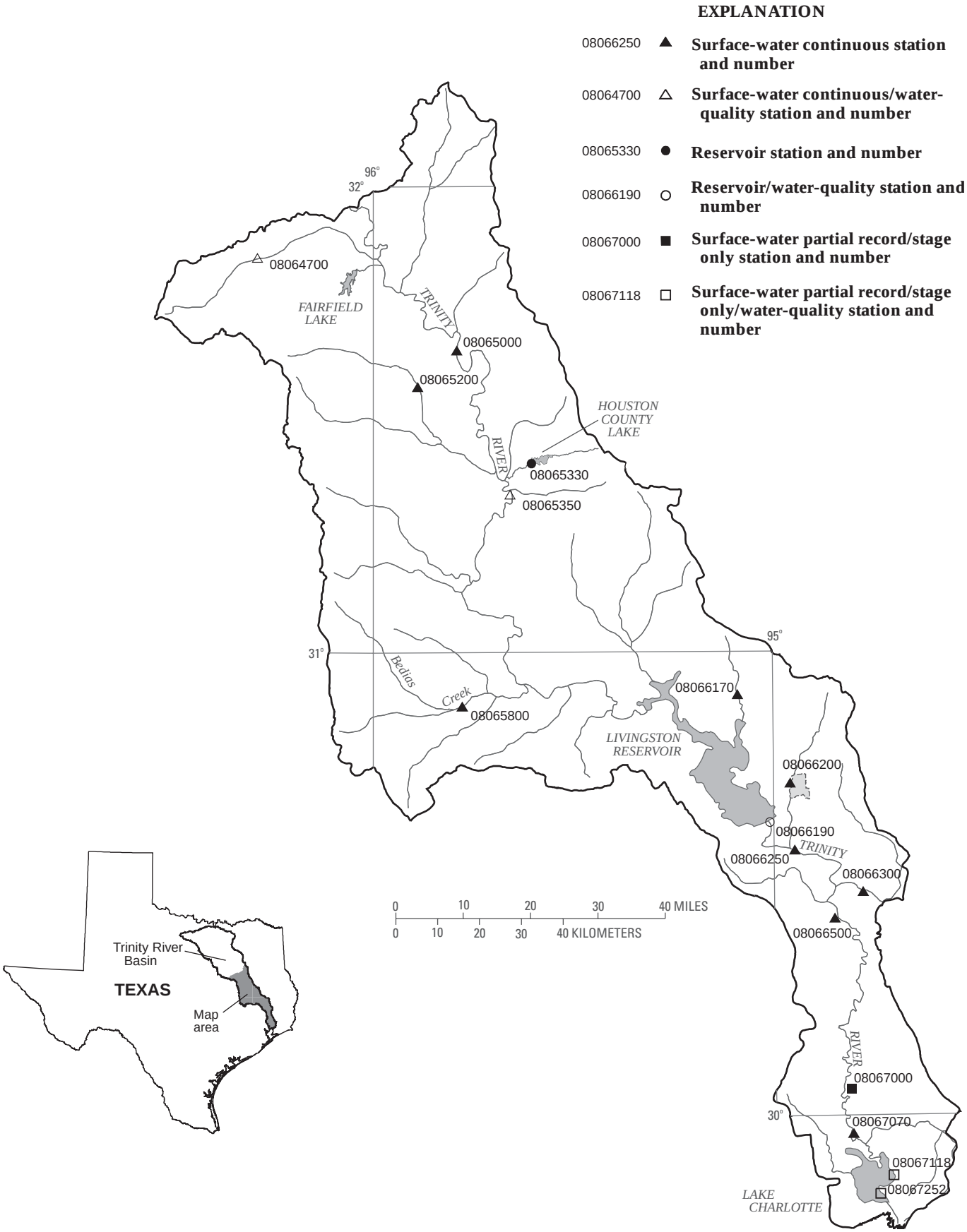



Figure 5.--Map showing location of gaging stations in the third section of the Trinity River Basin

08064700 Tehuacana Creek near Streetman, TX . . . . . 296
08065000 Trinity River near Oakwood, TX . . . . . 300
08065200 Upper Keechi Creek near Oakwood, TX . . . . . 302
08065330 Houston County Lake near Corckett, TX . . . . . 304
08065350 Trinity River near Crockett, TX . . . . . 306
08065800 Bedias Creek near Madisonville, TX . . . . . 318
08066170 Kickapoo Creek near Onalaska, TX . . . . . 320
08066190 Livingston Reservoir near Goodrich, TX . . . . . 322
08066200 Long King Creek at Livingston, TX . . . . . 332
08066250 Trinity River near Goodrich, TX . . . . . 334
08066300 Menard Creek near Rye, TX . . . . . 336
08066500 Trinity River at Romayor, TX . . . . . 338
08067000 Trinity River at Liberty, TX . . . . . 340
08067070 CWA Canal near Dayton, TX . . . . . 342
08067118 Lake Charlotte near Anahuac, TX . . . . . 344
08067252 Trinity River at Wallisville, TX . . . . . 350

## 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, 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 mi upstream from mouth.

DRAINAGE AREA.--142 $mi^2$.

### 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 fair except those for estimated daily discharges, which are poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.10 | 0.56 | 5.4 | 1.5 | e4.7 | e7.8 | 84 | 15 | 13 | 0.48 | 0.07 | 0.00 |
| 2 | 0.09 | 0.60 | 2.7 | 1.5 | e4.6 | 8.5 | 40 | 15 | 6.9 | 0.97 | e0.05 | 0.00 |
| 3 | 0.08 | 0.61 | 1.9 | 1.5 | e4.3 | 8.4 | 29 | 14 | 3.9 | 3.8 | e0.04 | 0.00 |
| 4 | 0.07 | 0.64 | 1.5 | 1.6 | e4.1 | 8.6 | 23 | 14 | 2.3 | 1.3 | 0.04 | 0.00 |
| 5 | 0.07 | 0.66 | 1.3 | 1.8 | e9.7 | 8.8 | 20 | 15 | 1.3 | 0.75 | 0.04 | 0.00 |
| 6 | 0.07 | 0.69 | 1.2 | 2.1 | 854 | 9.0 | 19 | 14 | 0.66 | 0.59 | 0.03 | 0.00 |
| 7 | 0.07 | 0.73 | 1.1 | 2.2 | 199 | 9.1 | 19 | 14 | 0.56 | 0.53 | 0.03 | 0.00 |
| 8 | 0.08 | 0.73 | 17 | 2.2 | 37 | 9.2 | 780 | 14 | 0.53 | 0.49 | 0.03 | 0.00 |
| 9 | 0.09 | 0.93 | 44 | 2.3 | 19 | 9.4 | 216 | 15 | 0.51 | 0.46 | 0.02 | 0.00 |
| 10 | 0.10 | 0.99 | 4.3 | 2.4 | e13 | 8.9 | 61 | 14 | 0.56 | 0.43 | 0.05 | 0.00 |
| 11 | 0.12 | 0.96 | 1.9 | 2.2 | e9.3 | 9.1 | 43 | 14 | 0.54 | 0.41 | 0.05 | 0.00 |
| 12 | 0.14 | 1.1 | 401 | 2.1 | e7.9 | 9.3 | 35 | 15 | 0.54 | 0.36 | 0.05 | 0.00 |
| 13 | 3.2 | 1.1 | 117 | 2.0 | e7.2 | 9.7 | 29 | 15 | 0.52 | 0.35 | 0.04 | 0.00 |
| 14 | 4.5 | 1.1 | 17 | 2.2 | e6.9 | 10 | 148 | 14 | 0.49 | 0.33 | 0.04 | 0.00 |
| 15 | 1.6 | 1.0 | 11 | 2.2 | e6.1 | 10 | 52 | 13 | 0.50 | 0.33 | 0.04 | 0.00 |
| 16 | 0.83 | 1.1 | 2390 | 2.3 | e6.5 | 9.9 | 33 | 14 | 0.59 | 0.77 | 0.03 | 0.00 |
| 17 | 0.62 | 1.1 | 5100 | 2.3 | e6.5 | 13 | 26 | 24 | 0.63 | 9.2 | 0.03 | 0.00 |
| 18 | 0.57 | 1.1 | 1060 | 2.4 | e6.4 | 16 | 22 | 36 | 0.60 | 3.2 | 0.03 | 0.00 |
| 19 | 0.58 | 1.2 | 46 | 2.5 | e6.8 | 17 | 20 | 19 | 0.55 | 1.2 | 0.03 | 0.00 |
| 20 | 0.52 | 1.2 | 9.7 | 2.5 | 8.6 | 781 | 19 | 16 | 0.49 | 0.72 | 0.02 | 0.00 |
| 21 | 0.50 | 1.2 | 5.7 | 2.7 | e12 | 158 | 18 | 14 | 0.44 | 0.54 | 0.02 | 0.00 |
| 22 | 0.47 | 1.4 | 4.3 | 2.9 | e10 | 46 | 17 | 13 | 0.46 | 0.41 | 0.00 | 0.00 |
| 23 | 0.50 | 2.3 | 3.9 | 3.1 | e8.7 | 28 | 17 | 13 | 0.47 | 0.32 | 0.00 | 0.00 |
| 24 | 0.49 | 2.2 | 3.4 | 3.8 | e8.1 | 23 | 17 | 13 | 0.44 | 0.27 | 0.00 | 0.00 |
| 25 | 0.48 | 1.9 | 3.0 | 3.2 | e7.7 | 19 | 17 | 13 | 0.39 | 0.24 | 0.00 | 0.00 |
| 26 | 0.47 | 1.9 | 2.2 | e3.3 | e7.5 | 16 | 16 | 13 | 0.41 | 0.21 | 0.00 | 0.00 |
| 27 | 0.47 | 1.8 | 1.7 | e3.3 | e7.3 | 17 | 15 | 18 | 0.43 | 0.19 | 0.00 | 0.00 |
| 28 | 0.51 | 2.6 | 1.7 | e3.3 | e7.4 | 16 | 15 | 186 | 0.40 | 0.17 | 0.00 | 0.00 |
| 29 | 0.51 | 44 | 1.6 | e3.6 | --- | 15 | 15 | 593 | 0.38 | 0.14 | 0.00 | 0.00 |
| 30 | 0.52 | 14 | 1.6 | e3.8 | --- | 60 | 15 | 256 | 0.41 | 0.10 | 0.00 | 0.00 |
| 31 | 0.53 | --- | 1.6 | e4.4 | --- | 669 | --- | 31 | --- | 0.08 | 0.00 | --- |
| TOTAL | 18.95 | 91.40 | 9264.7 | 79.2 | 1290.3 | 2039.7 | 1880 | 1487 | 39.90 | 29.34 | 0.78 | 0.00 |
| MEAN | 0.611 | 3.047 | 298.9 | 2.555 | 46.08 | 65.80 | 62.67 | 47.97 | 1.330 | 0.946 | 0.025 | 0.000 |
| MAX | 4.5 | 44 | 5100 | 4.4 | 854 | 781 | 780 | 593 | 13 | 9.2 | 0.07 | 0.00 |
| MIN | 0.07 | 0.56 | 1.1 | 1.5 | 4.1 | 7.8 | 15 | 13 | 0.38 | 0.08 | 0.00 | 0.00 |
| AC-FT | 38 | 181 | 18380 | 157 | 2560 | 4050 | 3730 | 2950 | 79 | 58 | 1.5 | 0.00 |

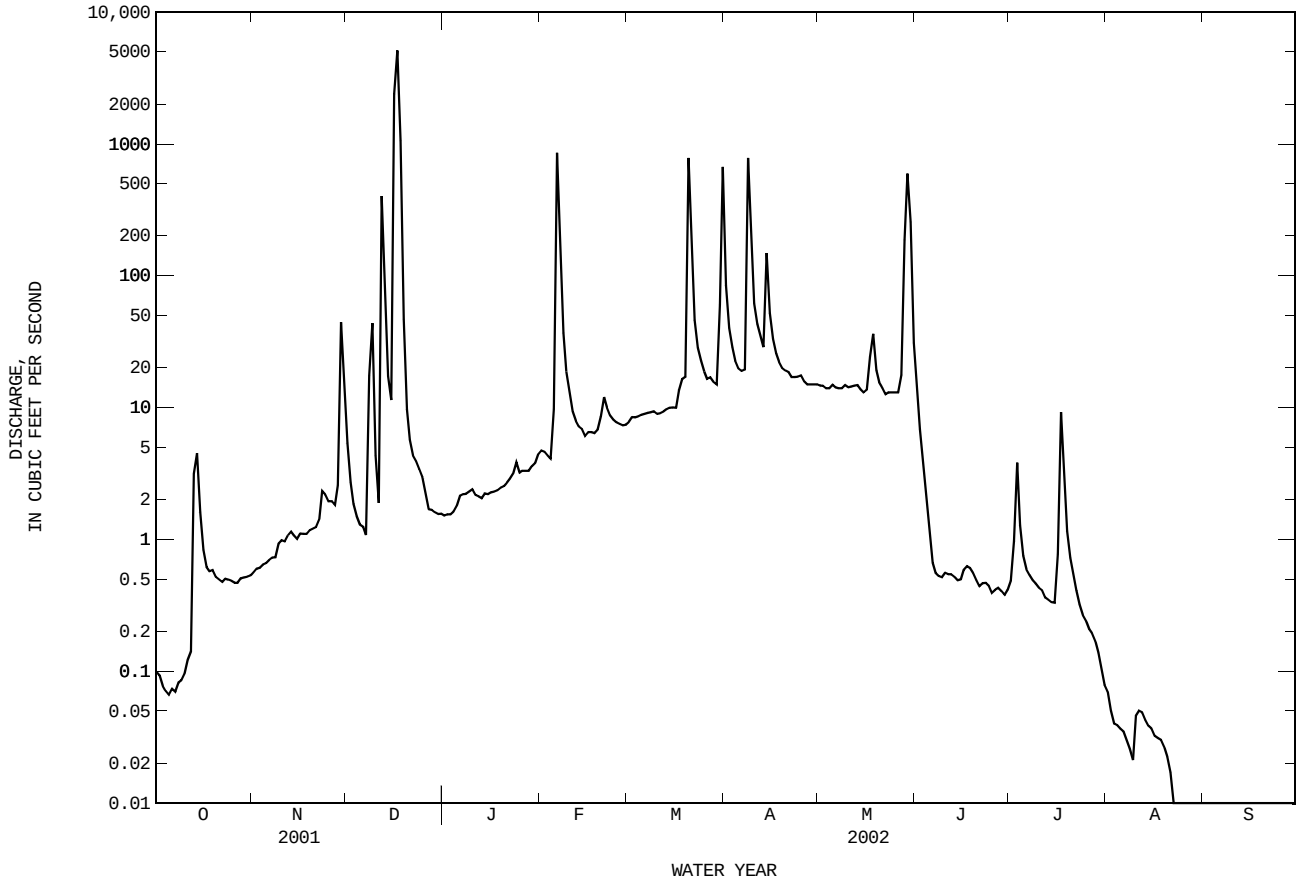
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 53.91 | 63.65 | 144.7 | 82.24 | 161.6 | 123.1 | 97.76 | 219.7 | 69.55 | 3.649 | 14.23 | 26.94 |
| MAX | 379 | 399 | 1013 | 381 | 930 | 1048 | 762 | 2927 | 388 | 35.1 | 234 | 547 |
| (WY) | 1974 | 1999 | 1992 | 1998 | 1986 | 1990 | 1997 | 1989 | 1981 | 1976 | 1983 | 1974 |
| MIN | 0.000 | 0.000 | 0.000 | 0.12 | 0.45 | 0.25 | 0.000 | 0.020 | 0.040 | 0.000 | 0.000 | 0.000 |
| (WY) | 1981 | 1981 | 2000 | 1971 | 1996 | 1996 | 1971 | 1971 | 1996 | 1978 | 1969 | 1980 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1968 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 46030.59 | | 16221.27 | | | |
| ANNUAL MEAN | 126.1 | | 44.44 | | 86.70 | |
| HIGHEST ANNUAL MEAN | | | | | 274 | 1989 |
| LOWEST ANNUAL MEAN | | | | | 3.52 | 1996 |
| HIGHEST DAILY MEAN | 7530 | Feb 17 | 5100 | Dec 17 | 42000 | May 4 1989 |
| LOWEST DAILY MEAN | 0.00 | Feb 6 | 0.00 | Aug 22 | 0.00 | Sep 30 1968 |
| ANNUAL SEVEN-DAY MINIMUM | 0.01 | Feb 6 | 0.00 | Aug 22 | 0.00 | Sep 30 1968 |
| MAXIMUM PEAK FLOW | | | 6390 | Dec 17 | g85700 | May 17 1989 |
| MAXIMUM PEAK STAGE | | | 23.93 | Dec 17 | 34.99 | Feb 17 2001 |
| ANNUAL RUNOFF (AC-FT) | 91300 | | 32170 | | 62810 | |
| 10 PERCENT EXCEEDS | 119 | | 23 | | 55 | |
| 50 PERCENT EXCEEDS | 1.9 | | 1.9 | | 1.6 | |
| 90 PERCENT EXCEEDS | 0.13 | | 0.00 | | 0.00 | |

e Estimated
g At site and datum then in use.

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 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 23... | 1005 | .52 | 460 | 7.3 | 21.0 | 4.5 | 51 | <2.0 | 120 | 42 | 30.3 | 11.6 | 37.6 |
| DEC | | | | | | | | | | | | | |
| 12... | 0915 | 231 | 126 | 7.8 | 10.5 | 8.9 | 81 | 6.9 | 36 | 7 | 9.15 | 3.25 | 8.38 |
| FEB | | | | | | | | | | | | | |
| 14... | 0845 | 6.9 | 520 | 7.5 | 8.0 | 10.4 | 88 | 2.7 | 150 | -- | 38.1 | 13.3 | 46.1 |
| APR | | | | | | | | | | | | | |
| 17... | 1020 | 26 | 365 | 7.4 | 22.5 | 6.2 | 73 | 3.3 | 110 | 29 | 27.3 | 9.36 | 29.8 |
| MAY | | | | | | | | | | | | | |
| 08... | 1215 | 14 | 1270 | 7.4 | 26.5 | 6.3 | 81 | 4.3 | 340 | 130 | 83.1 | 31.1 | 139 |
| JUN | | | | | | | | | | | | | |
| 20... | 1030 | .50 | 1200 | 7.6 | 27.5 | 6.5 | 85 | 2.9 | 320 | 110 | 80.2 | 29.6 | 124 |

| Date | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 23... | 1 | 38 | 5.74 | <1 | 100 | 82 | 60.5 | 50.3 | .2 | 6.48 | 272 | 252 | 24 |
| DEC | | | | | | | | | | | | | |
| 12... | .6 | 31 | 3.95 | <1 | 35 | 29 | 13.9 | 8.53 | .2 | 5.76 | 96 | 72 | 912 |
| FEB | | | | | | | | | | | | | |
| 14... | 2 | 39 | 4.52 | -- | -- | -- | 75.4 | 54.0 | .2 | 9.59 | 326 | -- | 36 |
| APR | | | | | | | | | | | | | |
| 17... | 1 | 37 | 4.79 | <1 | 94 | 78 | 43.1 | 34.0 | .1 | 8.88 | 233 | 204 | 32 |
| MAY | | | | | | | | | | | | | |
| 08... | 3 | 47 | 5.31 | 1 | 248 | 205 | 172 | 168 | .4 | 14.1 | 790 | 737 | 10 |
| JUN | | | | | | | | | | | | | |
| 20... | 3 | 45 | 6.08 | <1 | 258 | 213 | 157 | 152 | .3 | 11.3 | 716 | 688 | 11 |

| Date | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC DIS-SOLVED (UG/L AS AS) (01000) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 23... | -- | E.005 | E.04 | E.02 | -- | .49 | E.03 | .02 | .055 | 9.9 | 1 | .11 | E2 |
| DEC | | | | | | | | | | | | | |
| 12... | .29 | .009 | .30 | .06 | .58 | .64 | .054 | .03 | .098 | 28.1 | 6 | .08 | <2 |
| FEB | | | | | | | | | | | | | |
| 14... | -- | E.007 | .21 | <.04 | -- | .53 | .029 | <.02 | -- | 10.5 | 2 | .09 | <2 |
| APR | | | | | | | | | | | | | |
| 17... | .09 | .009 | .10 | .05 | .76 | .80 | .061 | .04 | .117 | 13.0 | 3 | .30 | E1 |
| MAY | | | | | | | | | | | | | |
| 08... | -- | <.008 | <.05 | <.04 | -- | .34 | .014 | <.02 | -- | 7.4 | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 20... | -- | <.008 | <.05 | <.04 | -- | .44 | .013 | <.02 | -- | 8.3 | <1 | .16 | 2 |

| Date | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY DIS-SOLVED (UG/L AS HG) (71890) | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060) | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | | |
| 23... | 60 | <.06 | <.04 | <.8 | .59 | 1.6 | 17 | <.08 | 441 | <.01 | .5 | 2.18 | <2 |
| DEC | | | | | | | | | | | | | |
| 12... | 17 | <.06 | <.04 | <.8 | .36 | 1.5 | 76 | .11 | 12.6 | -- | .3 | 2.53 | <2 |
| FEB | | | | | | | | | | | | | |
| 14... | 62 | <.06 | <.04 | <.8 | .90 | 2.6 | 55 | .09 | 259 | <.01 | .3 | 2.34 | <2 |
| APR | | | | | | | | | | | | | |
| 17... | 51 | <.06 | <.04 | <.8 | .44 | 2.7 | 93 | .09 | 89.0 | <.01 | .3 | 2.98 | <2 |
| MAY | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | <10 | -- | 70.8 | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 20... | 97 | <.06 | <.04 | <.8 | .24 | 2.2 | <10 | <.08 | 16.7 | <.01 | .8 | 1.85 | <2 |

08064700 Tehuacana Creek near Streetman, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | SILVER, DIS- SOLVED (UG/L AS AG) (01075) | ZINC, DIS- SOLVED (UG/L AS ZN) (01090) | URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703) |
|---|---|---|---|
| OCT | | | |
| 23... | <1 | <1 | .45 |
| DEC | | | |
| 12... | <1 | 2 | .11 |
| FEB | | | |
| 14... | <1 | 1 | 1.28 |
| APR | | | |
| 17... | <1 | 2 | .66 |
| MAY | | | |
| 08... | -- | -- | -- |
| JUN | | | |
| 20... | <1 | 1 | 2.67 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

## 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 $mi^2$.

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 fair. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. These structures control runoff from 614 $mi^2$ in the Richland, Chambers, and Tehuacana Creeks drainage basins. 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 $ft^3/s$) 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 $ft^3/s$).

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1190 | 1050 | 1940 | 6330 | 2040 | 1770 | 25100 | 12200 | 6720 | 1900 | 973 | 1440 |
| 2 | 1090 | 1050 | 2150 | 5690 | 5020 | 1760 | 23600 | 10200 | 4460 | 2430 | 1030 | 1130 |
| 3 | 1060 | 1040 | 1770 | 5460 | 9910 | 1650 | 22400 | 8200 | 2460 | 2930 | 1220 | 991 |
| 4 | 1040 | 1050 | 1550 | 5080 | 12400 | 1640 | 21600 | 6510 | 1840 | 4300 | 1160 | 929 |
| 5 | 1050 | 1050 | 1410 | 4790 | 14200 | 1670 | 21300 | 6100 | 1630 | 4770 | 1060 | 888 |
| 6 | 1120 | 1070 | 1330 | 4740 | 16300 | 1800 | 21500 | 6620 | 1540 | 4770 | 988 | 890 |
| 7 | 1090 | 1040 | 1290 | 4480 | 17100 | 1770 | 22100 | 7880 | 1480 | 4390 | 922 | 886 |
| 8 | 1560 | 1050 | 1380 | 3350 | 17800 | 1680 | 23900 | 10400 | 1390 | 3070 | 906 | 885 |
| 9 | 1770 | 1050 | 1510 | 2770 | 18400 | 1640 | 24700 | 12300 | 1420 | 2340 | 915 | 954 |
| 10 | 1350 | 1030 | 1810 | 2900 | 18800 | 1590 | 24500 | 13600 | 1680 | 2100 | 910 | 938 |
| 11 | 1170 | 1050 | 1710 | 3310 | 19000 | 1560 | 24100 | 14200 | 1770 | 1630 | 938 | 1290 |
| 12 | 1170 | 1080 | 2480 | 3350 | 18000 | 1640 | 23600 | 13300 | 2070 | 1430 | 1090 | 2240 |
| 13 | 2120 | 1190 | 3010 | 3700 | 13300 | 1660 | 23000 | 12200 | 2130 | 1430 | 3290 | 1930 |
| 14 | 5880 | 1310 | 3230 | 3920 | 7860 | 1560 | 22500 | 12100 | 2250 | 2010 | 4220 | 1360 |
| 15 | 8810 | 1730 | 2750 | 2710 | 5200 | 1530 | 22500 | 12400 | 2120 | 3780 | 2930 | 1100 |
| 16 | 9950 | 1690 | 5330 | 1890 | 4010 | 1510 | 22700 | 12800 | 1870 | 3140 | 1650 | 1000 |
| 17 | 8560 | 1460 | 13100 | 1600 | 2630 | 1540 | 23000 | 12900 | 1990 | 2620 | 1310 | 942 |
| 18 | e5430 | 1260 | 16800 | 1520 | 2200 | 1870 | 22900 | 12300 | 1910 | 7180 | 1850 | 865 |
| 19 | e4080 | 1230 | 19200 | 1490 | 2130 | 1850 | 22300 | 11500 | 2430 | 8570 | 1650 | 873 |
| 20 | e3130 | 1210 | 22600 | 1490 | 3110 | 3950 | 21600 | 11400 | 2580 | 6500 | 1260 | 1070 |
| 21 | e2450 | 1250 | 36800 | 1470 | 4580 | 9410 | 20900 | 11300 | 1950 | 4360 | 1110 | 1110 |
| 22 | e1950 | 1290 | 53200 | 1460 | 4220 | 14000 | 20400 | 9640 | 1440 | 2570 | 1040 | 1920 |
| 23 | e1540 | 1210 | 51900 | 1470 | 3270 | 16200 | 20400 | 7000 | 1280 | 1680 | 1070 | 2260 |
| 24 | 1380 | 1140 | 46800 | 1490 | 2440 | 17500 | 20400 | 5740 | 1260 | 1360 | 1050 | 1640 |
| 25 | 1310 | 1100 | 42100 | 1580 | 2150 | 18600 | 20300 | 5390 | 1340 | 1230 | 982 | 1210 |
| 26 | 1250 | 1090 | 37800 | 2790 | 1990 | 19600 | 19900 | 4620 | 1230 | 1150 | 932 | 1060 |
| 27 | e1180 | 1100 | 32300 | 5850 | 1860 | 20700 | 19000 | 4380 | 1150 | 1080 | 920 | 959 |
| 28 | e1140 | 1330 | 22800 | 6470 | 1780 | 22100 | 17300 | 3540 | 1150 | 1020 | 944 | 869 |
| 29 | 1090 | 1620 | 11300 | 4450 | --- | 23600 | 15200 | 4020 | 1260 | 985 | 1060 | 823 |
| 30 | 1060 | 1750 | 6590 | 2530 | --- | 24900 | 13700 | 5550 | 1500 | 971 | 2000 | 808 |
| 31 | 1050 | --- | 6520 | 1950 | --- | 26300 | --- | 6640 | --- | 1000 | 2020 | --- |
| TOTAL | 78020 | 36570 | 454460 | 102080 | 231700 | 248550 | 646400 | 286930 | 59300 | 88696 | 43400 | 35260 |
| MEAN | 2517 | 1219 | 14660 | 3293 | 8275 | 8018 | 21550 | 9256 | 1977 | 2861 | 1400 | 1175 |
| MAX | 9950 | 1750 | 53200 | 6470 | 19000 | 26300 | 25100 | 14200 | 6720 | 8570 | 4220 | 2260 |
| MIN | 1040 | 1030 | 1290 | 1460 | 1780 | 1510 | 13700 | 3540 | 1150 | 971 | 906 | 808 |
| AC-FT | 154800 | 72540 | 901400 | 202500 | 459600 | 493000 | 1282000 | 569100 | 117600 | 175900 | 86080 | 69940 |

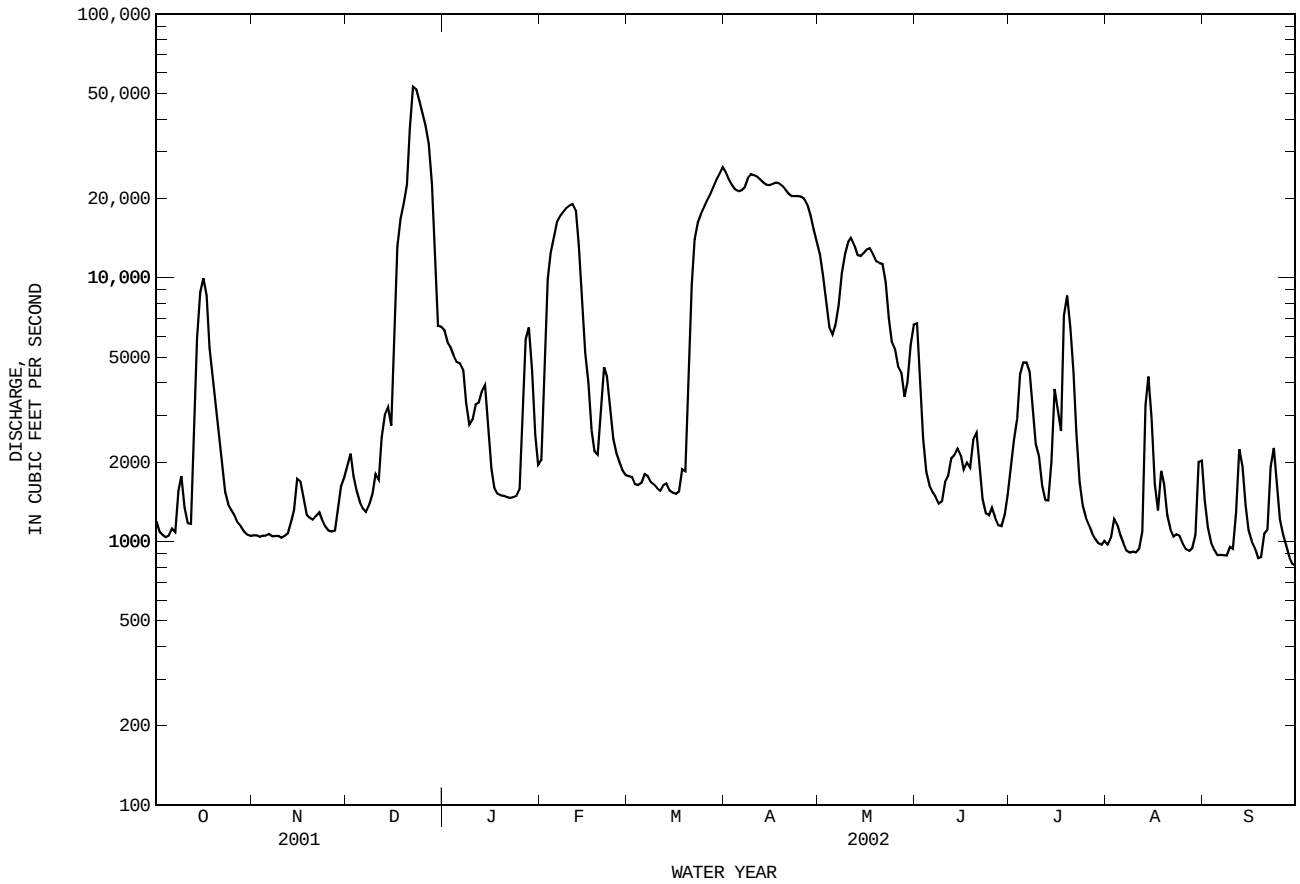
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 2443 | 3646 | 5225 | 5269 | 6477 | 7872 | 7861 | 11400 | 7781 | 2720 | 1259 | 1459 |
| MAX | 14250 | 25900 | 33280 | 31870 | 35060 | 40450 | 45710 | 56050 | 33550 | 15240 | 7050 | 7361 |
| (WY) | 1974 | 1975 | 1992 | 1998 | 1932 | 1945 | 1945 | 1990 | 1957 | 1941 | 1982 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1925 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 3734946 | | 2311366 | | | |
| ANNUAL MEAN | 10230 | | 6333 | | 5276 | |
| HIGHEST ANNUAL MEAN | | | | | 15240 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 657 | 1925 |
| HIGHEST DAILY MEAN | 55600 | Mar 6 | 53200 | Dec 22 | 153000 | Apr 29 1942 |
| LOWEST DAILY MEAN | 873 | Aug 11 | 808 | Sep 30 | 28 | Nov 1 1924 |
| ANNUAL SEVEN-DAY MINIMUM | 893 | Aug 7 | 910 | Sep 4 | 38 | Aug 19 1925 |
| MAXIMUM PEAK FLOW | | | 54800 | Dec 22 | 153000 | Apr 29 1942 |
| MAXIMUM PEAK STAGE | | | 45.07 | Dec 22 | 51.64 | Apr 29 1942 |
| ANNUAL RUNOFF (AC-FT) | 7408000 | | 4585000 | | 3822000 | |
| 10 PERCENT EXCEEDS | 33400 | | 20400 | | 15000 | |
| 50 PERCENT EXCEEDS | 3230 | | 1990 | | 1510 | |
| 90 PERCENT EXCEEDS | 1040 | | 1040 | | 310 | |

e Estimated



## 08065200 Upper Keechi Creek near Oakwood, TX

LOCATION.--Lat 31°34′11", long 95°53′17", Leon County, Hydrologic Unit 12030201, at right bank at downstream side of 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 $mi^2$.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

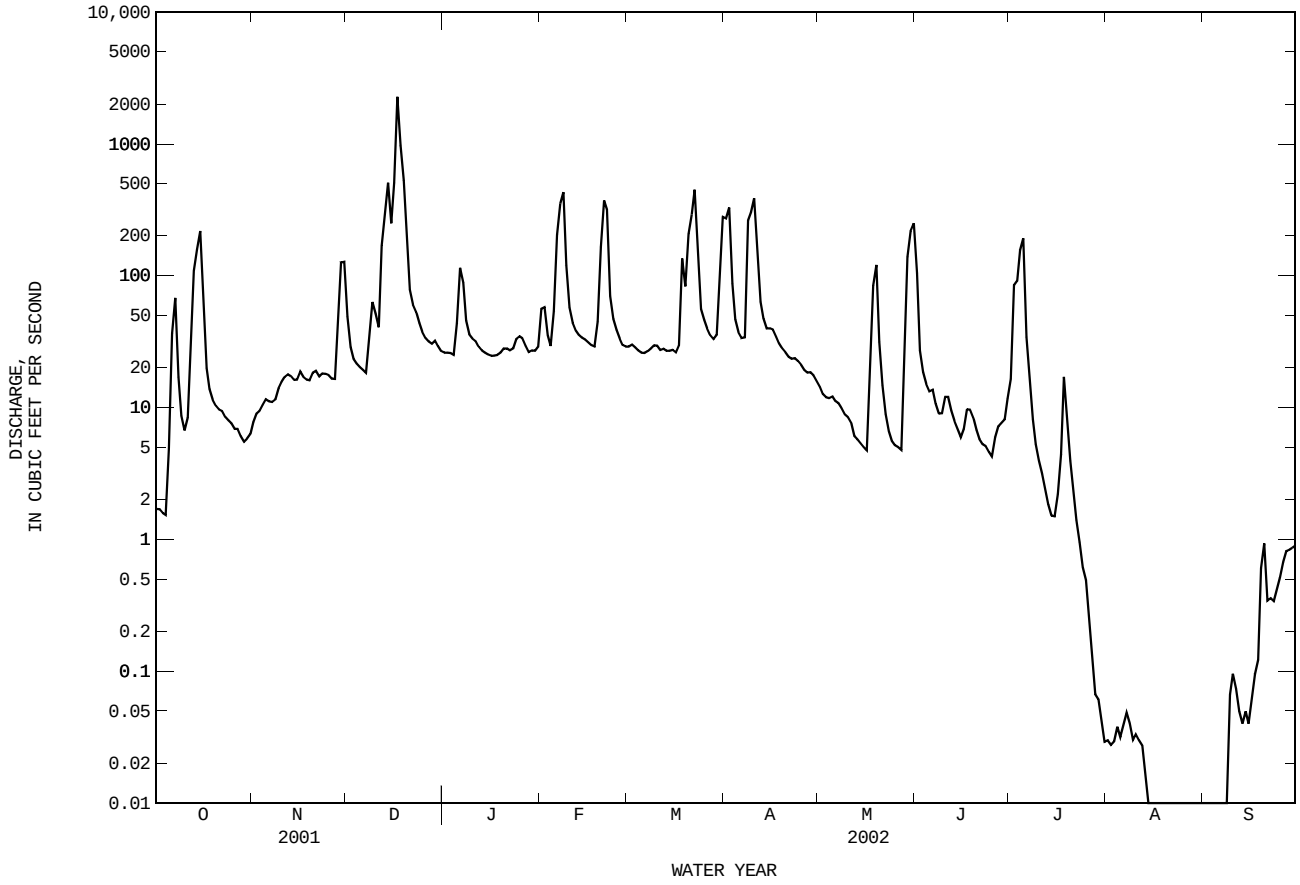
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.7 | 7.8 | 49 | 26 | 56 | 29 | 272 | 14 | 104 | 16 | 0.03 | 0.00 |
| 2 | 1.7 | 9.0 | 29 | 26 | 58 | 30 | 327 | 13 | 27 | 84 | 0.03 | 0.00 |
| 3 | 1.6 | 9.5 | 23 | 26 | 35 | 29 | 87 | 12 | 19 | 91 | 0.03 | 0.00 |
| 4 | 1.5 | 11 | 22 | 25 | 29 | 27 | 47 | 12 | 15 | 156 | 0.04 | 0.00 |
| 5 | 4.8 | 12 | 20 | 44 | 54 | 26 | 37 | 12 | 13 | 192 | 0.03 | 0.00 |
| 6 | 36 | 11 | 19 | 115 | 204 | 26 | 34 | 11 | 14 | 34 | 0.04 | 0.00 |
| 7 | 68 | 11 | 18 | 89 | 351 | 27 | 34 | 11 | 11 | 16 | 0.05 | 0.00 |
| 8 | 17 | 12 | 36 | 45 | 430 | 28 | 262 | 9.8 | 9.0 | 8.1 | 0.04 | 0.00 |
| 9 | 8.7 | 14 | 63 | 36 | 120 | 30 | 302 | 8.8 | 9.1 | 5.3 | 0.03 | 0.07 |
| 10 | 6.7 | 16 | 51 | 33 | 57 | 29 | 385 | 8.4 | 12 | 3.9 | 0.03 | 0.10 |
| 11 | 8.4 | 17 | 41 | 32 | 44 | 27 | 169 | 7.7 | 12 | 3.1 | 0.03 | 0.07 |
| 12 | 40 | 18 | 169 | 29 | 38 | 28 | 63 | 6.1 | 9.4 | 2.3 | 0.03 | 0.05 |
| 13 | 109 | 17 | 295 | 27 | 36 | 27 | 47 | 5.7 | 7.9 | 1.8 | 0.02 | 0.04 |
| 14 | 159 | 16 | 508 | 26 | 34 | 27 | 40 | 5.3 | 6.9 | 1.5 | 0.00 | 0.05 |
| 15 | 218 | 16 | 250 | 25 | 33 | 27 | 40 | 5.0 | 5.9 | 1.5 | 0.00 | 0.04 |
| 16 | 76 | 19 | 503 | 25 | 31 | 26 | 39 | 4.7 | 6.8 | 2.2 | 0.00 | 0.06 |
| 17 | 20 | 17 | 2270 | 25 | 30 | 29 | 34 | 23 | 9.7 | 4.4 | 0.00 | 0.09 |
| 18 | 14 | 16 | 975 | 25 | 29 | 135 | 31 | 84 | 9.6 | 17 | 0.00 | 0.12 |
| 19 | 11 | 16 | 532 | 26 | 45 | 83 | 28 | 121 | 8.4 | 7.8 | 0.00 | 0.60 |
| 20 | 10 | 18 | 178 | 28 | 165 | 207 | 26 | 32 | 6.7 | 3.9 | 0.00 | 0.93 |
| 21 | 9.6 | 19 | 78 | 28 | 371 | 291 | 24 | 15 | 5.8 | 2.3 | 0.00 | 0.34 |
| 22 | 9.3 | 17 | 60 | 27 | 317 | 448 | 23 | 8.9 | 5.3 | 1.4 | 0.00 | 0.36 |
| 23 | 8.5 | 18 | 53 | 28 | 70 | 142 | 24 | 6.6 | 5.1 | 0.95 | 0.00 | 0.34 |
| 24 | 8.0 | 18 | 43 | 33 | 47 | 56 | 23 | 5.6 | 4.6 | 0.61 | 0.00 | 0.41 |
| 25 | 7.6 | 18 | 37 | 35 | 39 | 46 | 21 | 5.2 | 4.3 | 0.49 | 0.00 | 0.51 |
| 26 | 6.9 | 17 | 34 | 34 | 33 | 40 | 19 | 5.0 | 5.9 | 0.23 | 0.00 | 0.67 |
| 27 | 6.9 | 16 | 32 | 30 | 30 | 35 | 18 | 4.8 | 7.2 | 0.13 | 0.00 | 0.81 |
| 28 | 6.1 | 40 | 30 | 26 | 29 | 33 | 18 | 39 | 7.7 | 0.07 | 0.00 | 0.83 |
| 29 | 5.5 | 126 | 32 | 27 | --- | 35 | 18 | 138 | 8.1 | 0.06 | 0.00 | 0.86 |
| 30 | 5.8 | 128 | 29 | 27 | --- | 94 | 16 | 217 | 12 | 0.04 | 0.00 | 0.90 |
| 31 | 6.3 | --- | 27 | 29 | --- | 279 | --- | 249 | --- | 0.03 | 0.00 | --- |
| TOTAL | 893.6 | 700.3 | 6506 | 1057 | 2815 | 2396 | 2508 | 1100.6 | 382.4 | 658.11 | 0.43 | 8.25 |
| MEAN | 28.83 | 23.34 | 209.9 | 34.10 | 100.5 | 77.29 | 83.60 | 35.50 | 12.75 | 21.23 | 0.014 | 0.275 |
| MAX | 218 | 128 | 2270 | 115 | 430 | 448 | 385 | 249 | 104 | 192 | 0.05 | 0.93 |
| MIN | 1.5 | 7.8 | 18 | 25 | 29 | 26 | 16 | 4.7 | 4.3 | 0.03 | 0.00 | 0.00 |
| AC-FT | 1770 | 1390 | 12900 | 2100 | 5580 | 4750 | 4970 | 2180 | 758 | 1310 | 0.9 | 16 |
| CFSM | 0.19 | 0.16 | 1.40 | 0.23 | 0.67 | 0.52 | 0.56 | 0.24 | 0.08 | 0.14 | 0.00 | 0.00 |
| IN. | 0.22 | 0.17 | 1.61 | 0.26 | 0.70 | 0.59 | 0.62 | 0.27 | 0.09 | 0.16 | 0.00 | 0.00 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 43.43 | 54.84 | 110.6 | 107.1 | 122.2 | 125.4 | 114.3 | 136.3 | 65.69 | 12.68 | 5.379 | 13.97 |
| MAX | 371 | 513 | 878 | 614 | 425 | 461 | 574 | 1413 | 517 | 128 | 54.5 | 246 |
| (WY) | 1974 | 1975 | 1992 | 1999 | 1997 | 1973 | 1966 | 1965 | 1976 | 1981 | 1979 | 1974 |
| MIN | 0.000 | 0.000 | 0.36 | 4.03 | 8.28 | 8.79 | 8.41 | 1.82 | 0.48 | 0.000 | 0.000 | 0.000 |
| (WY) | 1964 | 1964 | 1964 | 1964 | 1964 | 1996 | 1971 | 1972 | 1963 | 1964 | 1963 | 1963 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1962 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 30759.12 | | 19025.69 | | | |
| ANNUAL MEAN | 84.27 | | 52.13 | | 76.18 | |
| HIGHEST ANNUAL MEAN | | | | | 168 | 1965 |
| LOWEST ANNUAL MEAN | | | | | 4.52 | 1963 |
| HIGHEST DAILY MEAN | 2270 | Dec 17 | 2270 | Dec 17 | 11500 | Jan 29 1999 |
| LOWEST DAILY MEAN | 0.09 | Aug 15 | 0.00 | Aug 14 | 0.00 | Aug 5 1962 |
| ANNUAL SEVEN-DAY MINIMUM | 0.14 | Aug 10 | 0.00 | Aug 14 | 0.00 | Aug 5 1962 |
| MAXIMUM PEAK FLOW | | | 2900 | Dec 17 | 24000 | May 16 1965 |
| MAXIMUM PEAK STAGE | | | 13.62 | Dec 17 | 15.69 | Jan 29 1999 |
| ANNUAL RUNOFF (AC-FT) | 61010 | | 37740 | | 55190 | |
| ANNUAL RUNOFF (CFSM) | 0.56 | | 0.35 | | 0.51 | |
| ANNUAL RUNOFF (INCHES) | 7.63 | | 4.72 | | 6.90 | |
| 10 PERCENT EXCEEDS | 230 | | 123 | | 132 | |
| 50 PERCENT EXCEEDS | 20 | | 18 | | 11 | |
| 90 PERCENT EXCEEDS | 1.5 | | 0.04 | | 0.07 | |

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 $mi^2$.

PERIOD OF RECORD.--May 1999 to current year.

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 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. Conservation pool storage is 17,665 acre-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 |
| Top of conservation pool | 259.5 |
| Lowest gated outlet | 234.0 |

COOPERATION.--The capacity table, furnished by the Texas Water Development Board, dated Mar. 11, 1999, is from a Jan. 1999 survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 23,450 acre-ft, June 8, 2001, elevation, 264.87 ft; minimum contents, 15,540 acre-ft, Oct. 15, 2000, elevation, 258.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,280 acre-ft, Dec. 17, elevation, 261.36 ft; minimum contents, 17,120 acre-ft, Sept. 7, 8, elevation, 259.54 ft.

RESERVOIR STORAGE FROM DCP, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

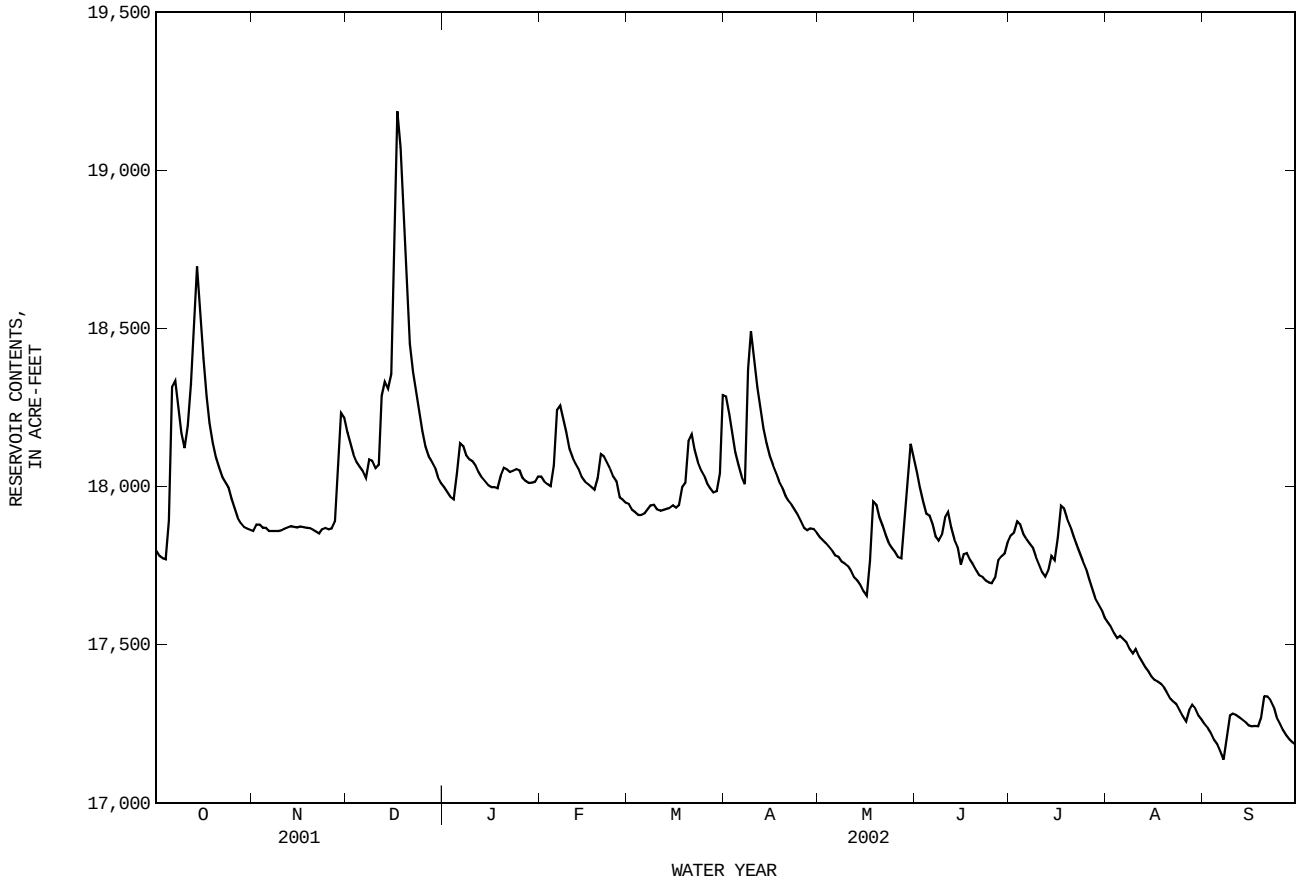
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 17800 | 17860 | 18170 | 18000 | 18030 | 17940 | 18280 | 17840 | 18040 | 17850 | 17570 | 17250 |
| 2 | 17780 | e17880 | 18130 | 17980 | 18020 | 17930 | 18230 | 17830 | 18000 | 17850 | 17560 | 17240 |
| 3 | 17770 | e17880 | 18100 | 17970 | 18010 | 17920 | 18170 | 17820 | 17950 | 17890 | 17540 | 17220 |
| 4 | 17770 | e17870 | 18080 | 17960 | 18000 | 17910 | 18110 | 17810 | 17910 | 17880 | 17520 | 17200 |
| 5 | 17890 | e17870 | 18060 | 18040 | 18070 | 17910 | 18070 | 17800 | 17910 | 17850 | 17530 | 17180 |
| 6 | 18310 | 17860 | 18050 | 18140 | 18240 | 17920 | 18030 | 17780 | 17880 | 17830 | 17520 | 17160 |
| 7 | 18330 | 17860 | 18030 | 18130 | 18260 | 17930 | 18010 | 17780 | 17840 | 17820 | 17510 | 17140 |
| 8 | 18240 | 17860 | 18080 | 18100 | 18210 | 17940 | 18370 | 17760 | 17830 | 17810 | 17490 | 17210 |
| 9 | 18170 | 17860 | 18080 | 18090 | 18170 | 17940 | 18490 | 17760 | 17850 | 17780 | 17470 | 17280 |
| 10 | 18120 | 17860 | 18060 | 18080 | 18120 | 17930 | 18400 | 17750 | 17900 | 17760 | 17490 | 17280 |
| 11 | 18190 | 17870 | 18070 | 18070 | 18090 | 17920 | 18310 | 17730 | 17920 | 17730 | 17460 | 17280 |
| 12 | 18330 | 17870 | 18290 | 18050 | 18070 | 17930 | 18240 | 17710 | 17870 | 17710 | 17450 | 17270 |
| 13 | 18520 | 17870 | 18330 | 18030 | 18050 | 17930 | 18180 | 17700 | 17830 | 17730 | 17430 | 17260 |
| 14 | 18700 | 17870 | 18310 | 18020 | 18030 | 17930 | 18140 | 17690 | 17810 | 17780 | 17420 | 17260 |
| 15 | 18570 | 17870 | 18360 | 18000 | 18020 | 17940 | 18100 | 17670 | 17750 | 17770 | 17400 | 17250 |
| 16 | 18410 | 17870 | 18640 | 18000 | 18010 | 17930 | 18070 | 17660 | 17790 | 17840 | 17390 | 17240 |
| 17 | 18280 | 17870 | 19190 | 18000 | 18000 | 17940 | 18040 | 17770 | 17790 | 17940 | 17380 | 17240 |
| 18 | 18200 | 17870 | 19070 | 17990 | 17990 | 18000 | 18020 | 17950 | 17770 | 17930 | 17380 | 17240 |
| 19 | 18140 | 17870 | 18790 | 18030 | 18030 | 18010 | 18000 | 17940 | 17750 | 17900 | 17360 | 17270 |
| 20 | 18090 | 17860 | 18590 | 18060 | 18100 | 18140 | 17970 | 17900 | 17730 | 17870 | 17350 | 17340 |
| 21 | 18060 | 17860 | 18450 | 18050 | 18100 | 18160 | 17950 | 17880 | 17720 | 17840 | 17330 | 17340 |
| 22 | 18030 | 17850 | 18360 | 18050 | 18080 | 18120 | 17940 | 17850 | 17710 | 17820 | 17320 | 17320 |
| 23 | 18020 | 17870 | 18300 | 18050 | 18060 | 18080 | 17930 | 17820 | 17700 | 17790 | 17310 | 17300 |
| 24 | 18000 | 17870 | 18240 | 18050 | 18030 | 18050 | 17910 | 17810 | 17700 | 17770 | 17290 | 17270 |
| 25 | 17960 | 17860 | 18180 | 18050 | 18020 | 18040 | 17890 | 17790 | 17690 | 17740 | 17270 | 17250 |
| 26 | 17930 | 17870 | 18130 | 18030 | 17970 | 18010 | 17870 | 17780 | 17710 | 17710 | 17260 | 17230 |
| 27 | 17900 | 17890 | 18100 | 18020 | 17960 | 17990 | 17860 | 17770 | 17770 | 17680 | 17290 | 17210 |
| 28 | 17880 | 18080 | 18080 | 18010 | 17950 | 17980 | 17870 | 17890 | 17780 | 17650 | 17310 | 17200 |
| 29 | 17870 | 18230 | 18060 | 18010 | --- | 17990 | 17870 | 18020 | 17790 | 17630 | 17300 | 17190 |
| 30 | 17870 | 18220 | 18030 | 18020 | --- | 18040 | 17850 | 18140 | 17820 | 17610 | 17280 | 17180 |
| 31 | 17860 | --- | 18010 | 18030 | --- | 18290 | --- | 18090 | --- | 17590 | 17260 | --- |
| MEAN | 18100 | 17900 | 18270 | 18040 | 18060 | 17990 | 18070 | 17820 | 17820 | 17790 | 17400 | 17240 |
| MAX | 18700 | 18230 | 19190 | 18140 | 18260 | 18290 | 18490 | 18140 | 18040 | 17940 | 17570 | 17340 |
| MIN | 17770 | 17850 | 18010 | 17960 | 17950 | 17910 | 17850 | 17660 | 17690 | 17590 | 17260 | 17140 |
| (+) | 260.16 | 260.47 | 260.29 | 260.31 | 261.24 | 260.52 | 260.16 | 260.36 | 260.13 | 259.94 | 259.66 | 259.59 |
| (@) | +60 | +360 | -210 | +20 | -80 | +340 | -440 | +240 | -270 | -230 | -330 | -80 |

CAL YR 2001 MAX 23140 MIN 17360 (@) -510
WTR YR 2002 MAX 19190 MIN 17140 (@) -620

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

08065330 Houston County Lake near Crockett, TX--Continued



## 08065350 Trinity River near Crockett, TX

LOCATION.--Lat 31°20'18", long 95°39'22", Houston-Leon County line, 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 $mi^2$.

### 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.--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 From DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1660 | 1400 | 1850 | 6570 | 2200 | 2110 | 24000 | 13300 | 7190 | 1980 | 952 | 1890 |
| 2 | 1540 | 1410 | 1850 | 5720 | 2500 | 2120 | 23100 | 11700 | 6250 | 2390 | 919 | 1510 |
| 3 | 1460 | 1420 | 1770 | 5370 | 6190 | 2080 | 22100 | 9540 | 3890 | 2830 | 1050 | 1200 |
| 4 | 1430 | 1430 | 1560 | 4700 | 10700 | 2010 | 21200 | 7250 | 2630 | 3140 | 1290 | 996 |
| 5 | 1740 | 1470 | 1410 | 4910 | 13000 | 2000 | 20300 | 5740 | 2300 | 3900 | 1220 | 904 |
| 6 | 3020 | 1480 | 1310 | 5320 | 15900 | 2050 | 19700 | 5650 | 2170 | 4170 | 1060 | 846 |
| 7 | 2490 | 1480 | 1300 | 4830 | 17300 | 2120 | 19600 | 6280 | 2090 | 4260 | 953 | 851 |
| 8 | 1880 | 1460 | 1300 | 4090 | 17500 | 2110 | 21300 | 8210 | 2000 | 3720 | 851 | 892 |
| 9 | 2410 | 1470 | 1360 | 3190 | 17900 | 2080 | 23400 | 10900 | 2030 | 2830 | 825 | 958 |
| 10 | 2320 | 1470 | 1400 | 2860 | 18400 | 2030 | 23400 | 12500 | 2200 | 2500 | 846 | 1010 |
| 11 | 2010 | 1470 | 1540 | 3050 | 18700 | 1990 | 22900 | 13600 | 2230 | 2270 | 843 | 947 |
| 12 | 2070 | 1490 | 2730 | 3240 | 18400 | 2000 | 22500 | 13800 | 2260 | 1980 | 864 | 1550 |
| 13 | 4340 | 1520 | 3510 | 3260 | 16900 | 2070 | 21900 | 12900 | 2380 | 1860 | 1400 | 2070 |
| 14 | 7410 | 1570 | 3190 | 3530 | 12400 | 2040 | 21200 | 12100 | 2410 | 1850 | 2920 | 1820 |
| 15 | 9160 | 1640 | 3350 | 3330 | 7120 | 1960 | 20600 | 12100 | 2450 | 2540 | 3050 | 1460 |
| 16 | 10300 | 1780 | 6790 | 2580 | 4500 | 1900 | 20400 | 12400 | 2360 | 3240 | 2300 | 1190 |
| 17 | 10700 | 1740 | 14100 | 2200 | 3340 | 1870 | 20400 | 13000 | 2270 | 2830 | 1670 | 1050 |
| 18 | 8030 | 1630 | 19100 | 2070 | 2600 | 1970 | 20500 | 13300 | 2330 | 3410 | 1550 | 958 |
| 19 | 3770 | 1550 | 21400 | 2040 | 2420 | 2140 | 20400 | 12700 | 2330 | 7130 | 1880 | 872 |
| 20 | 2660 | 1530 | 21600 | 2060 | 2800 | 2670 | 20100 | 12100 | 2670 | 7270 | 1670 | 961 |
| 21 | 2230 | 1520 | 22000 | 2040 | 3580 | 5320 | 19600 | 12100 | 2550 | 4950 | 1400 | 1220 |
| 22 | 2040 | 1570 | e26900 | 2030 | 4270 | 10900 | 19200 | 11600 | 2120 | 3250 | 1210 | 1330 |
| 23 | 1930 | 1620 | e31500 | e2020 | 3880 | 14400 | 18900 | 9250 | 1810 | 2340 | 1130 | 2010 |
| 24 | 1770 | 1550 | 36600 | e2040 | 3240 | 16100 | 18800 | 6580 | 1670 | 1850 | 1140 | 2040 |
| 25 | 1550 | 1500 | 38200 | e2500 | 2740 | 17100 | 18800 | 5510 | 1640 | 1600 | 1110 | 1650 |
| 26 | 1470 | 1480 | 38300 | e3000 | 2400 | 17600 | 18700 | 4870 | 1680 | 1450 | 991 | 1320 |
| 27 | 1420 | 1490 | 36200 | e3500 | 2250 | 18100 | 18400 | 3820 | 1770 | 1320 | 918 | 1110 |
| 28 | 1410 | 1810 | 32000 | 6100 | 2150 | 18800 | 17600 | 3290 | 1660 | 1180 | 965 | 933 |
| 29 | 1410 | 2500 | 25000 | 5430 | --- | 19700 | 16300 | 3210 | 1610 | 1080 | 980 | 804 |
| 30 | 1400 | 2080 | 14000 | 3430 | --- | 20700 | 14800 | 4290 | 1760 | 993 | 1270 | 730 |
| 31 | 1410 | --- | 7460 | 2460 | --- | 23200 | --- | 5940 | --- | 944 | 2000 | --- |
| TOTAL | 98440 | 47530 | 420580 | 109470 | 235280 | 223240 | 610100 | 289530 | 74710 | 87057 | 41227 | 37082 |
| MEAN | 3175 | 1584 | 13570 | 3531 | 8403 | 7201 | 20340 | 9340 | 2490 | 2808 | 1330 | 1236 |
| MAX | 10700 | 2500 | 38300 | 6570 | 18700 | 23200 | 24000 | 13800 | 7190 | 7270 | 3050 | 2070 |
| MIN | 1400 | 1400 | 1300 | 2020 | 2150 | 1870 | 14800 | 3210 | 1610 | 944 | 825 | 730 |
| AC-FT | 195300 | 94280 | 834200 | 217100 | 466700 | 442800 | 1210000 | 574300 | 148200 | 172700 | 81770 | 73550 |

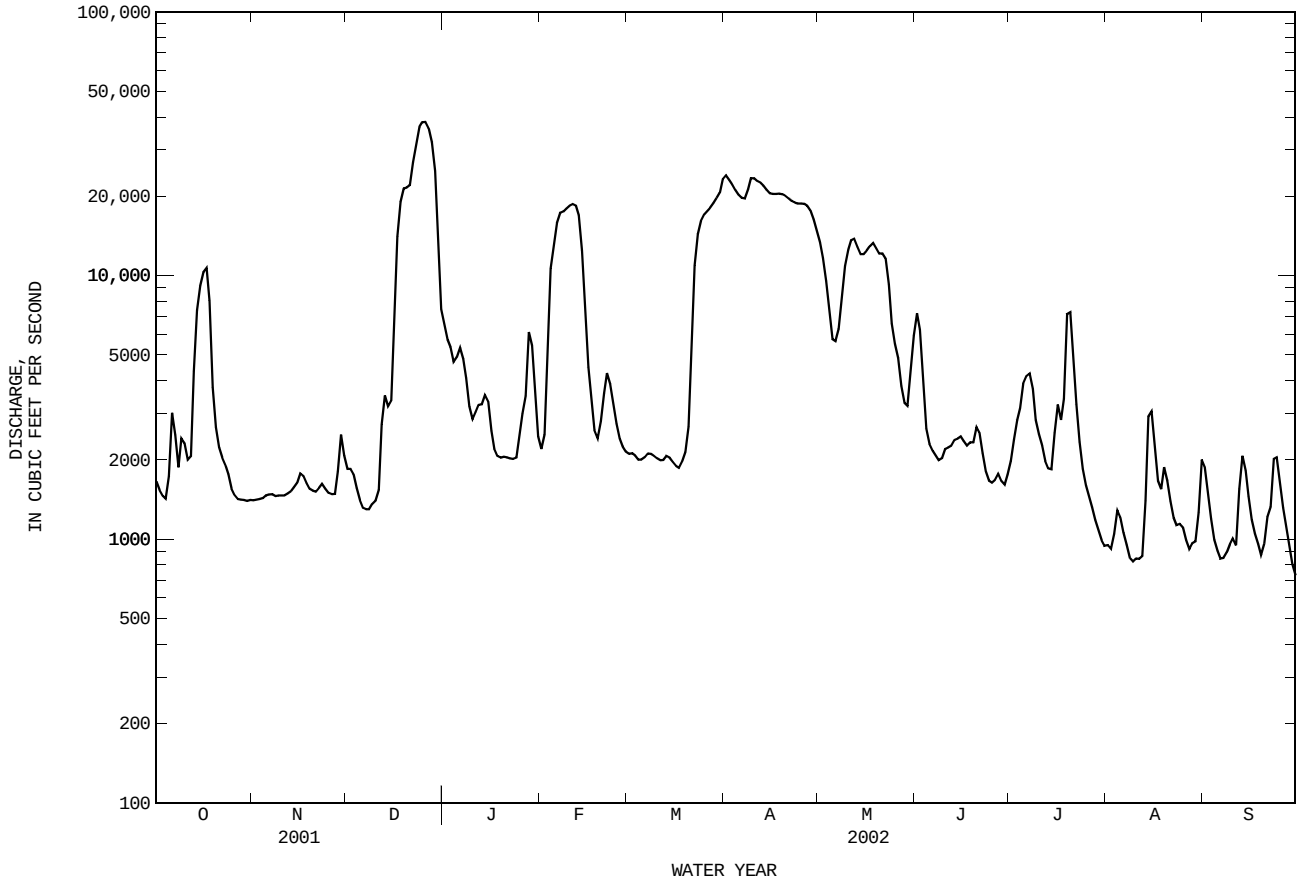
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 3160 | 5566 | 7595 | 6545 | 8145 | 10450 | 9115 | 12880 | 9298 | 3311 | 1790 | 1795 |
| MAX | 16840 | 26110 | 35440 | 33620 | 30490 | 39700 | 25960 | 62100 | 29570 | 15030 | 7188 | 6932 |
| (WY) | 1974 | 1975 | 1992 | 1992 | 1992 | 2001 | 1977 | 1990 | 1989 | 1989 | 1982 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1964 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 3849563 | | 2274246 | | | |
| ANNUAL MEAN | 10550 | | 6231 | | 6745 | |
| HIGHEST ANNUAL MEAN | | | | | 16810 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 1352 | 1971 |
| HIGHEST DAILY MEAN | 58400 | Mar 9 | 38300 | Dec 26 | 109000 | May 10 1990 |
| LOWEST DAILY MEAN | 984 | Aug 12 | 730 | Sep 30 | 278 | Aug 12 1964 |
| ANNUAL SEVEN-DAY MINIMUM | 1010 | Aug 9 | 892 | Aug 6 | 293 | Aug 10 1964 |
| MAXIMUM PEAK FLOW | | | 38700 | Dec 25 | 109000 | May 10 1990 |
| MAXIMUM PEAK STAGE | | | 40.11 | Dec 25 | 48.54 | May 10 1990 |
| ANNUAL RUNOFF (AC-FT) | 7636000 | | 4511000 | | 4886000 | |
| 10 PERCENT EXCEEDS | 30500 | | 19100 | | 19200 | |
| 50 PERCENT EXCEEDS | 4090 | | 2340 | | 2450 | |
| 90 PERCENT EXCEEDS | 1260 | | 1160 | | 765 | |

e Estimated

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.--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 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 units, Aug. 11-12, 1981; minimum, 5.9 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, 820 microsiemens/cm, Dec. 31; minimum, 142 microsiemens/cm, July 19.
pH: Maximum, 8.5 units, Mar. 12, 13; minimum, 6.4 units, Dec. 13.
WATER TEMPERATURE: Maximum, 32.7°C, Aug. 4, 6; minimum, 7.8°C, Nov. 30, Jan. 6, 8.
DISSOLVED OXYGEN: Maximum, 13.1 mg/L, Mar. 13; minimum, 4.6 mg/L, June 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 1204 | 17400 | 340 | 7.9 | 8.8 | 770 | 10.4 | 89 | 2.3 | 120 | 32 | 40.8 | 3.69 |
| MAR | | | | | | | | | | | | | |
| 27... | 1615 | 18200 | 328 | 7.8 | 15.0 | 766 | 8.1 | 80 | 2.2 | 120 | 25 | 41.9 | 3.46 |
| MAY | | | | | | | | | | | | | |
| 14... | 1515 | 12000 | 342 | 7.7 | 24.3 | 765 | 8.3 | 99 | 2.1 | 120 | 23 | 41.3 | 3.13 |
| JUN | | | | | | | | | | | | | |
| 17... | 1622 | 2260 | 572 | 7.7 | 29.0 | 760 | 6.6 | 86 | 1.5 | 160 | 47 | 55.1 | 5.72 |
| JUL | | | | | | | | | | | | | |
| 17... | 0842 | 2900 | 520 | 7.7 | 28.3 | 762 | 6.3 | 81 | 2.6 | 150 | 48 | 50.6 | 5.26 |
| AUG | | | | | | | | | | | | | |
| 30... | 1200 | 1190 | 618 | 7.9 | 29.0 | 763 | 7.3 | 95 | 1.6 | 160 | 63 | 54.6 | 6.02 |

| Date | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | | |
| 07... | 18.3 | .7 | 4.32 | 85 | 40.8 | 19.8 | .3 | 6.3 | 190 | .94 | .014 | .95 | .05 |
| MAR | | | | | | | | | | | | | |
| 27... | 15.2 | .6 | 4.47 | 94 | 36.3 | 15.3 | .3 | 5.9 | 183 | .67 | .024 | .70 | .05 |
| MAY | | | | | | | | | | | | | |
| 14... | 17.8 | .7 | 4.25 | 93 | 32.0 | 16.9 | .3 | 6.5 | 186 | 1.62 | .029 | 1.65 | <.04 |
| JUN | | | | | | | | | | | | | |
| 17... | 47.3 | 2 | 6.98 | 114 | 65.6 | 47.0 | .7 | 7.6 | 325 | 4.27 | .016 | 4.29 | <.04 |
| JUL | | | | | | | | | | | | | |
| 17... | 47.3 | 2 | 6.38 | 100 | 66.9 | 46.8 | .7 | 8.6 | 320 | 5.90 | .022 | 5.92 | <.04 |
| AUG | | | | | | | | | | | | | |
| 30... | 56.8 | 2 | 7.41 | 98 | 70.6 | 60.6 | .9 | 8.9 | 351 | 5.41 | .012 | 5.42 | <.04 |

08065350 Trinity River near Crockett, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) |
|---|---|---|---|---|---|
| FEB | | | | | |
| 07... | .37 | .42 | .10 | .08 | .245 |
| MAR | | | | | |
| 27... | .39 | .44 | .08 | .07 | .227 |
| MAY | | | | | |
| 14... | -- | .36 | .11 | .10 | .310 |
| JUN | | | | | |
| 17... | -- | .60 | .51 | .49 | 1.50 |
| JUL | | | | | |
| 17... | -- | .54 | .46 | .47 | 1.44 |
| AUG | | | | | |
| 30... | -- | .42 | .69 | .65 | 1.98 |

Remark codes used in this report:
< -- Less than

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 517 | 483 | 500 | 581 | 555 | 568 | 463 | 376 | 436 | 433 | 393 | 407 |
| 2 | 516 | 507 | 510 | 595 | 579 | 585 | 510 | 463 | 485 | 442 | 374 | 408 |
| 3 | 515 | 499 | 508 | 610 | 595 | 602 | 586 | 509 | 544 | 374 | 296 | 319 |
| 4 | 519 | 499 | 508 | 618 | 610 | 615 | 568 | 538 | 552 | 329 | 297 | 316 |
| 5 | 544 | 472 | 519 | 624 | 618 | 622 | 568 | 561 | 565 | 340 | 329 | 334 |
| 6 | 472 | 243 | 319 | 638 | 622 | 629 | 561 | 556 | 558 | 356 | 324 | 341 |
| 7 | 395 | 353 | 376 | 638 | 636 | 637 | 562 | 550 | 557 | 348 | 326 | 340 |
| 8 | 492 | 392 | 447 | 654 | 637 | 645 | 550 | 529 | 537 | 350 | 347 | 348 |
| 9 | 535 | 492 | 519 | 671 | 654 | 661 | 533 | 520 | 524 | 349 | 348 | 348 |
| 10 | 611 | 535 | 573 | 676 | 670 | 672 | 521 | 500 | 510 | 395 | 346 | 361 |
| 11 | 629 | 558 | 591 | 679 | 672 | 675 | 508 | 457 | 500 | 407 | 395 | 403 |
| 12 | 560 | 491 | 522 | 672 | 663 | 666 | 457 | 373 | 402 | 416 | 407 | 411 |
| 13 | 534 | 283 | 413 | 669 | 663 | 665 | 380 | 285 | 316 | 419 | 409 | 414 |
| 14 | 341 | 292 | 315 | 671 | 665 | 668 | 377 | 300 | 361 | 418 | 416 | 417 |
| 15 | 586 | 312 | 454 | 689 | 670 | 678 | 392 | 293 | 357 | 416 | 410 | 414 |
| 16 | 493 | 336 | 387 | 690 | 684 | 687 | 293 | 228 | 258 | 420 | 414 | 417 |
| 17 | 336 | 309 | 317 | 685 | 672 | 677 | 287 | 226 | 251 | 435 | 420 | 424 |
| 18 | 352 | 312 | 331 | 676 | 672 | 673 | 282 | 239 | 264 | 481 | 435 | 470 |
| 19 | 367 | 343 | 358 | 675 | 656 | 665 | 243 | 201 | 222 | 541 | 481 | 521 |
| 20 | 362 | 354 | 356 | 674 | 654 | 662 | 229 | 210 | 218 | 548 | 541 | 544 |
| 21 | 362 | 337 | 345 | 674 | 575 | 630 | 248 | 229 | 237 | 561 | 548 | 555 |
| 22 | 345 | 340 | 342 | 596 | 575 | 588 | 369 | 248 | 271 | 570 | 561 | 566 |
| 23 | 353 | 339 | 344 | 588 | 581 | 585 | 449 | 369 | 417 | 581 | 568 | 574 |
| 24 | 413 | 353 | 390 | 608 | 578 | 586 | 482 | 449 | 470 | 582 | 522 | 563 |
| 25 | 447 | 413 | 431 | 615 | 583 | 605 | 537 | 482 | 513 | 550 | 511 | 526 |
| 26 | 466 | 447 | 456 | 583 | 570 | 572 | 593 | 537 | 567 | 567 | 548 | 555 |
| 27 | 500 | 466 | 484 | 578 | 570 | 574 | 627 | 593 | 608 | 640 | 567 | 594 |
| 28 | 514 | 500 | 509 | 578 | 456 | 547 | 652 | 627 | 642 | 665 | 536 | 602 |
| 29 | 531 | 508 | 515 | 456 | 271 | 380 | 656 | 650 | 653 | 581 | 433 | 491 |
| 30 | 553 | 531 | 543 | 377 | 261 | 315 | 820 | 656 | 712 | 433 | 417 | 424 |
| 31 | 555 | 552 | 554 | --- | --- | --- | 820 | 390 | 504 | 417 | 410 | 413 |
| MONTH | 629 | 243 | 443 | 690 | 261 | 611 | 820 | 201 | 452 | 665 | 296 | 446 |

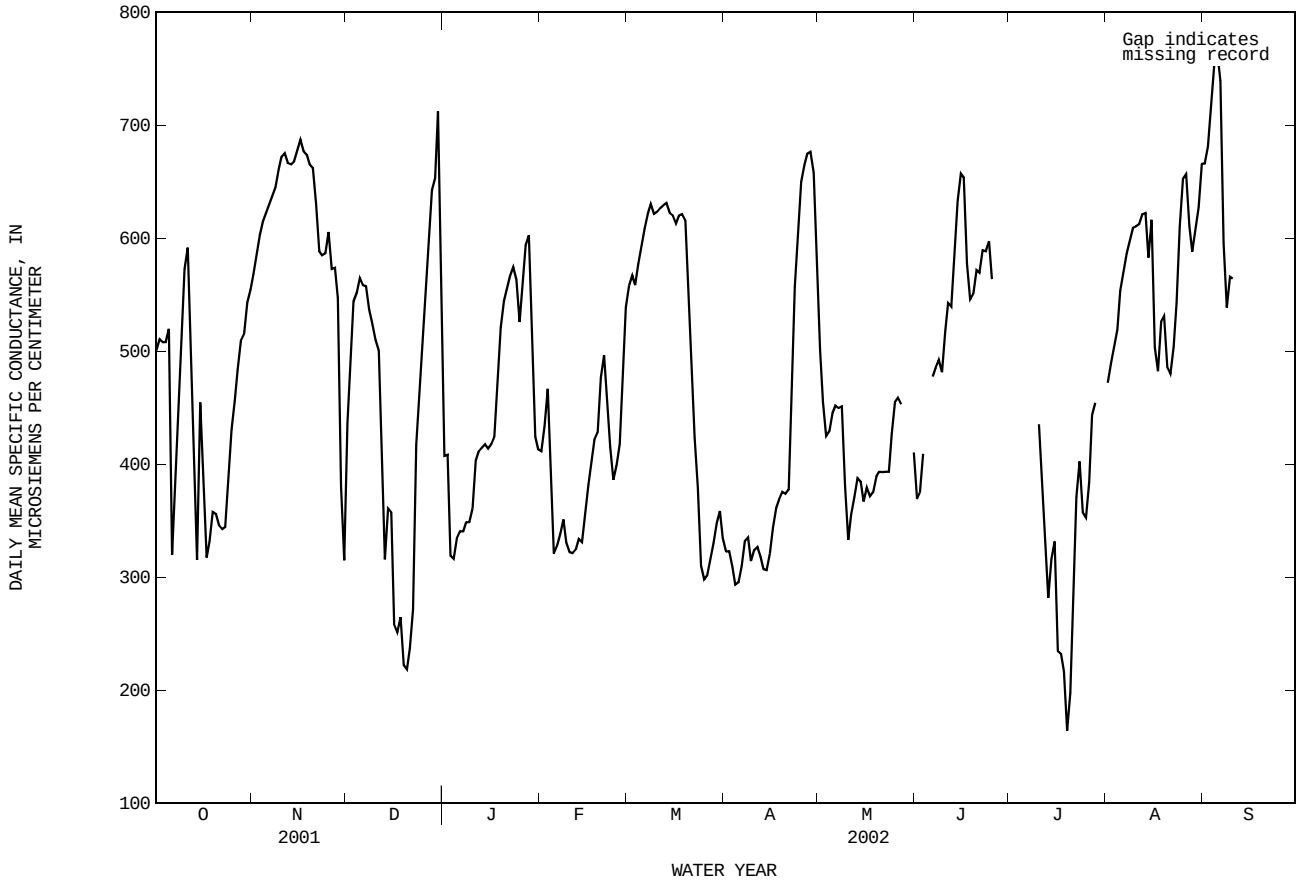
08065350 Trinity River near Crockett, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 413 | 408 | 411 | 568 | 549 | 558 | 330 | 316 | 322 | 540 | 476 | 501 |
| 2 | 456 | 408 | 434 | 574 | 554 | 567 | 330 | 318 | 323 | 476 | 432 | 455 |
| 3 | 521 | 386 | 467 | 568 | 552 | 558 | 318 | 294 | 309 | 432 | 421 | 425 |
| 4 | 564 | 323 | 413 | 586 | 568 | 577 | 295 | 291 | 293 | 441 | 420 | 429 |
| 5 | 328 | 318 | 321 | 603 | 585 | 592 | 300 | 291 | 295 | 448 | 441 | 445 |
| 6 | 338 | 319 | 328 | 617 | 603 | 609 | 321 | 300 | 309 | 455 | 448 | 452 |
| 7 | 344 | 335 | 338 | 629 | 617 | 622 | 338 | 321 | 332 | 453 | 447 | 449 |
| 8 | 361 | 331 | 351 | 631 | 628 | 630 | 340 | 324 | 335 | 468 | 446 | 451 |
| 9 | 334 | 322 | 330 | 628 | 617 | 621 | 324 | 308 | 314 | 476 | 312 | 381 |
| 10 | 324 | 320 | 322 | 628 | 620 | 623 | 331 | 311 | 324 | 345 | 320 | 333 |
| 11 | 323 | 320 | 321 | 629 | 624 | 626 | 331 | 324 | 326 | 366 | 345 | 355 |
| 12 | 332 | 320 | 325 | 634 | 621 | 629 | 326 | 312 | 318 | 374 | 366 | 370 |
| 13 | 336 | 332 | 334 | 635 | 626 | 631 | 312 | 303 | 307 | 418 | 374 | 387 |
| 14 | 338 | 329 | 331 | 626 | 616 | 622 | 310 | 303 | 306 | 420 | 354 | 384 |
| 15 | 360 | 338 | 355 | 626 | 613 | 620 | 333 | 310 | 321 | 389 | 351 | 367 |
| 16 | 399 | 359 | 381 | 616 | 610 | 613 | 354 | 333 | 344 | 382 | 373 | 379 |
| 17 | 415 | 399 | 404 | 625 | 612 | 620 | 366 | 354 | 361 | 379 | 364 | 371 |
| 18 | 426 | 415 | 422 | 624 | 619 | 621 | 372 | 365 | 369 | 381 | 369 | 375 |
| 19 | 478 | 419 | 428 | 620 | 602 | 616 | 376 | 372 | 375 | 398 | 377 | 389 |
| 20 | 483 | 470 | 477 | 602 | 526 | 552 | 377 | 366 | 374 | 400 | 379 | 393 |
| 21 | 522 | 470 | 496 | 537 | 409 | 490 | 416 | 362 | 377 | 408 | 379 | 393 |
| 22 | 498 | 409 | 456 | 517 | 351 | 423 | 522 | 416 | 471 | 399 | 390 | 393 |
| 23 | 433 | 380 | 416 | 409 | 336 | 379 | 584 | 522 | 556 | 410 | 389 | 393 |
| 24 | 393 | 380 | 386 | 336 | 302 | 310 | 634 | 584 | 609 | 442 | 410 | 427 |
| 25 | 411 | 392 | 399 | 304 | 293 | 298 | 660 | 634 | 650 | 463 | 442 | 454 |
| 26 | 423 | 411 | 418 | 307 | 298 | 301 | 672 | 656 | 665 | 463 | 456 | 459 |
| 27 | 531 | 423 | 464 | 321 | 307 | 315 | 680 | 669 | 674 | 457 | 442 | 453 |
| 28 | 549 | 531 | 539 | 338 | 321 | 330 | 685 | 661 | 676 | --- | --- | --- |
| 29 | --- | --- | --- | 355 | 338 | 348 | 674 | 634 | 658 | --- | --- | --- |
| 30 | --- | --- | --- | 361 | 348 | 358 | 634 | 540 | 594 | --- | --- | --- |
| 31 | --- | --- | --- | 349 | 319 | 334 | --- | --- | --- | 428 | 396 | 410 |
| MONTH | 564 | 318 | 395 | 635 | 293 | 516 | 685 | 291 | 416 | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 426 | 339 | 369 | --- | --- | --- | 481 | 463 | 472 | 678 | 654 | 666 |
| 2 | 392 | 353 | 375 | --- | --- | --- | 503 | 481 | 489 | 704 | 670 | 681 |
| 3 | 424 | 392 | 409 | --- | --- | --- | 518 | 488 | 504 | 731 | 704 | 718 |
| 4 | --- | --- | --- | --- | --- | --- | 539 | 505 | 519 | 764 | 728 | 754 |
| 5 | --- | --- | --- | --- | --- | --- | 561 | 536 | 554 | 764 | 761 | 763 |
| 6 | 485 | 471 | 477 | --- | --- | --- | 586 | 560 | 571 | 762 | 684 | 739 |
| 7 | 488 | 482 | 485 | --- | --- | --- | 593 | 583 | 586 | 684 | 525 | 595 |
| 8 | 500 | 487 | 492 | --- | --- | --- | 606 | 590 | 597 | 553 | 526 | 538 |
| 9 | 507 | 445 | 481 | --- | --- | --- | 613 | 602 | 609 | 575 | 553 | 566 |
| 10 | 546 | 468 | 517 | 465 | 424 | 435 | 613 | 605 | 610 | 569 | 559 | 564 |
| 11 | 552 | 523 | 542 | 444 | 337 | 383 | 616 | 606 | 612 | --- | --- | --- |
| 12 | 550 | 520 | 539 | 369 | 278 | 325 | 632 | 615 | 621 | --- | --- | --- |
| 13 | 615 | 550 | 591 | 298 | 256 | 281 | 635 | 589 | 622 | --- | --- | --- |
| 14 | 655 | 615 | 633 | 356 | 295 | 316 | 598 | 576 | 583 | --- | --- | --- |
| 15 | 662 | 653 | 657 | 406 | 251 | 331 | 630 | 597 | 616 | --- | --- | --- |
| 16 | 664 | 615 | 654 | 255 | 213 | 234 | 597 | 450 | 503 | --- | --- | --- |
| 17 | 615 | 555 | 578 | 234 | 223 | 232 | 531 | 450 | 482 | --- | --- | --- |
| 18 | 555 | 535 | 545 | 235 | 184 | 217 | 534 | 522 | 526 | --- | --- | --- |
| 19 | 578 | 535 | 551 | 184 | 142 | 164 | 551 | 493 | 531 | --- | --- | --- |
| 20 | 588 | 550 | 572 | 268 | 143 | 197 | 493 | 471 | 486 | --- | --- | --- |
| 21 | 583 | 550 | 569 | 323 | 268 | 303 | 491 | 472 | 480 | --- | --- | --- |
| 22 | 596 | 582 | 589 | 412 | 323 | 371 | 525 | 490 | 504 | --- | --- | --- |
| 23 | 599 | 583 | 588 | 414 | 388 | 402 | 566 | 518 | 542 | --- | --- | --- |
| 24 | 602 | 585 | 597 | 393 | 323 | 357 | 627 | 584 | 610 | --- | --- | --- |
| 25 | 585 | 552 | 564 | 370 | 332 | 353 | 662 | 627 | 652 | --- | --- | --- |
| 26 | --- | --- | --- | 409 | 365 | 384 | 666 | 643 | 656 | --- | --- | --- |
| 27 | --- | --- | --- | 461 | 401 | 443 | 643 | 585 | 611 | --- | --- | --- |
| 28 | --- | --- | --- | 474 | 431 | 454 | 591 | 586 | 588 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | 612 | 604 | 607 | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | 650 | 612 | 627 | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | 695 | 648 | 666 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 695 | 450 | 569 | --- | --- | --- |

08065350 Trinity River near Crockett, TX--Continued



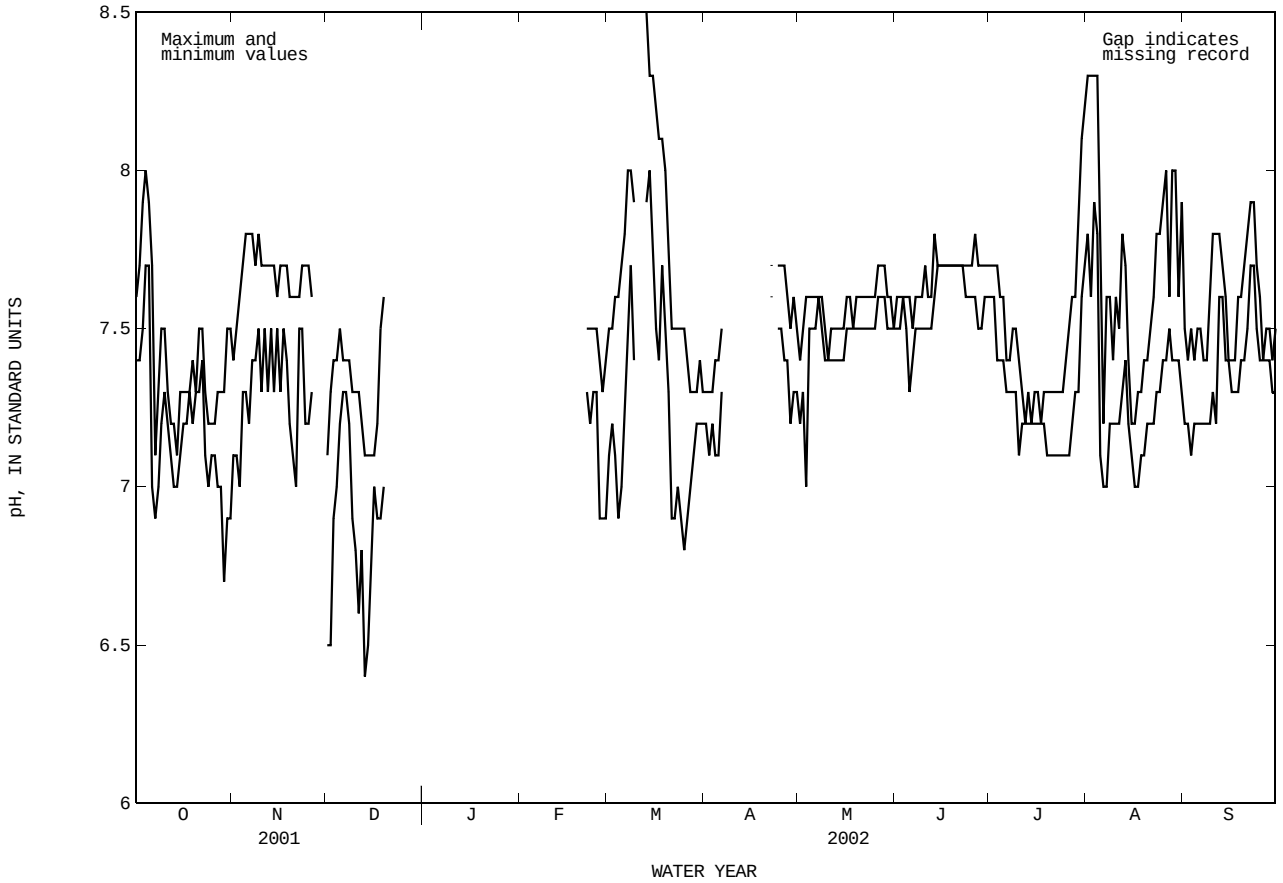

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 7.6 | 7.4 | 7.4 | 7.1 | 7.1 | 6.5 | --- | --- | --- | --- | 7.5 | 7.1 |
| 2 | 7.7 | 7.4 | 7.5 | 7.1 | 7.3 | 6.5 | --- | --- | --- | --- | 7.5 | 7.2 |
| 3 | 7.9 | 7.5 | 7.6 | 7.0 | 7.4 | 6.9 | --- | --- | --- | --- | 7.6 | 7.1 |
| 4 | 8.0 | 7.7 | 7.7 | 7.3 | 7.4 | 7.0 | --- | --- | --- | --- | 7.6 | 6.9 |
| 5 | 7.9 | 7.7 | 7.8 | 7.3 | 7.5 | 7.2 | --- | --- | --- | --- | 7.7 | 7.0 |
| 6 | 7.7 | 7.0 | 7.8 | 7.2 | 7.4 | 7.3 | --- | --- | --- | --- | 7.8 | 7.3 |
| 7 | 7.1 | 6.9 | 7.8 | 7.4 | 7.4 | 7.3 | --- | --- | --- | --- | 8.0 | 7.5 |
| 8 | 7.3 | 7.0 | 7.7 | 7.4 | 7.4 | 7.2 | --- | --- | --- | --- | 8.0 | 7.7 |
| 9 | 7.5 | 7.2 | 7.8 | 7.5 | 7.3 | 6.9 | --- | --- | --- | --- | 7.9 | 7.4 |
| 10 | 7.5 | 7.3 | 7.7 | 7.3 | 7.3 | 6.8 | --- | --- | --- | --- | --- | --- |
| 11 | 7.3 | 7.2 | 7.7 | 7.5 | 7.3 | 6.6 | --- | --- | --- | --- | --- | --- |
| 12 | 7.2 | 7.1 | 7.7 | 7.3 | 7.2 | 6.8 | --- | --- | --- | --- | --- | --- |
| 13 | 7.2 | 7.0 | 7.7 | 7.5 | 7.1 | 6.4 | --- | --- | --- | --- | 8.5 | 7.9 |
| 14 | 7.1 | 7.0 | 7.7 | 7.3 | 7.1 | 6.5 | --- | --- | --- | --- | 8.3 | 8.0 |
| 15 | 7.3 | 7.1 | 7.6 | 7.5 | 7.1 | 6.8 | --- | --- | --- | --- | 8.3 | 7.7 |
| 16 | 7.3 | 7.2 | 7.7 | 7.3 | 7.1 | 7.0 | --- | --- | --- | --- | 8.2 | 7.5 |
| 17 | 7.3 | 7.2 | 7.7 | 7.5 | 7.2 | 6.9 | --- | --- | --- | --- | 8.1 | 7.4 |
| 18 | 7.3 | 7.3 | 7.7 | 7.4 | 7.5 | 6.9 | --- | --- | --- | --- | 8.1 | 7.7 |
| 19 | 7.4 | 7.2 | 7.6 | 7.2 | 7.6 | 7.0 | --- | --- | --- | --- | 8.0 | 7.5 |
| 20 | 7.3 | 7.3 | 7.6 | 7.1 | --- | --- | --- | --- | --- | --- | 7.8 | 7.3 |
| 21 | 7.5 | 7.3 | 7.6 | 7.0 | --- | --- | --- | --- | --- | --- | 7.5 | 6.9 |
| 22 | 7.5 | 7.4 | 7.6 | 7.5 | --- | --- | --- | --- | 7.5 | 7.3 | 7.5 | 6.9 |
| 23 | 7.3 | 7.1 | 7.7 | 7.5 | --- | --- | --- | --- | 7.5 | 7.2 | 7.5 | 7.0 |
| 24 | 7.2 | 7.0 | 7.7 | 7.2 | --- | --- | --- | --- | 7.5 | 7.3 | 7.5 | 6.9 |
| 25 | 7.2 | 7.1 | 7.7 | 7.2 | --- | --- | --- | --- | 7.5 | 7.3 | 7.5 | 6.8 |
| 26 | 7.2 | 7.1 | 7.6 | 7.3 | --- | --- | --- | --- | 7.4 | 6.9 | 7.4 | 6.9 |
| 27 | 7.3 | 7.0 | --- | --- | --- | --- | --- | --- | 7.3 | 6.9 | 7.3 | 7.0 |
| 28 | 7.3 | 7.0 | --- | --- | --- | --- | --- | --- | 7.4 | 6.9 | 7.3 | 7.1 |
| 29 | 7.3 | 6.7 | --- | --- | --- | --- | --- | --- | --- | --- | 7.3 | 7.2 |
| 30 | 7.5 | 6.9 | --- | --- | --- | --- | --- | --- | --- | --- | 7.4 | 7.2 |
| 31 | 7.5 | 6.9 | --- | --- | --- | --- | --- | --- | --- | --- | 7.3 | 7.2 |
| MONTH | 8.0 | 6.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

08065350 Trinity River near Crockett, TX--Continued

PH, WH, FIELD FROM DCP, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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



08065350 Trinity River near Crockett, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

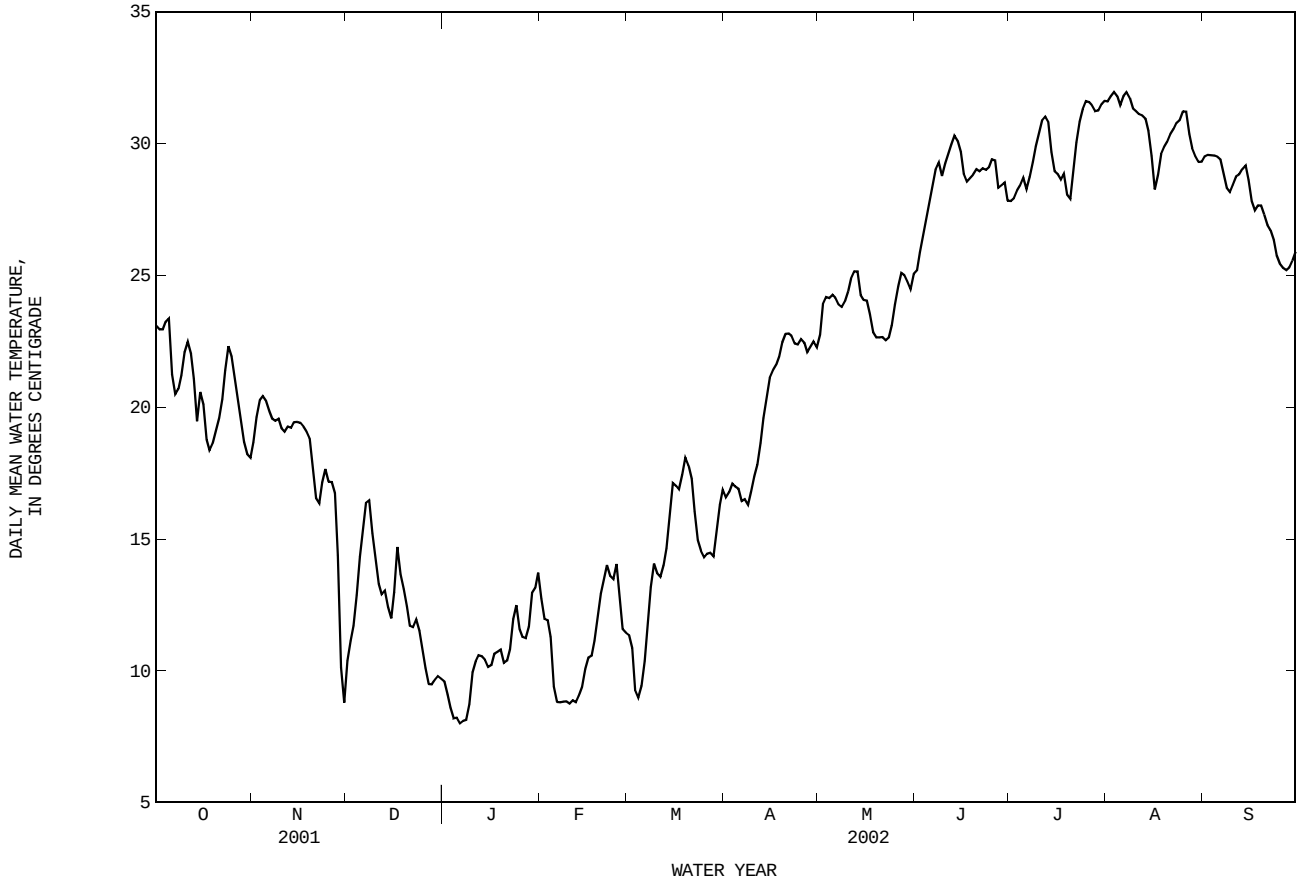
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 23.9 | 22.3 | 23.1 | 19.3 | 18.0 | 18.7 | 10.9 | 9.8 | 10.4 | 9.7 | 9.5 | 9.6 |
| 2 | 23.8 | 22.1 | 22.9 | 20.2 | 19.1 | 19.6 | 11.5 | 10.8 | 11.1 | 9.3 | 8.9 | 9.1 |
| 3 | 23.6 | 22.1 | 22.9 | 20.9 | 19.6 | 20.3 | 12.1 | 11.4 | 11.7 | 8.9 | 8.4 | 8.6 |
| 4 | 23.8 | 22.6 | 23.2 | 21.0 | 19.8 | 20.4 | 13.6 | 12.1 | 12.9 | 8.4 | 8.0 | 8.2 |
| 5 | 23.8 | 22.8 | 23.4 | 20.8 | 19.7 | 20.3 | 14.8 | 13.6 | 14.3 | 8.3 | 8.1 | 8.2 |
| 6 | 22.8 | 20.7 | 21.2 | 20.4 | 19.2 | 19.9 | 15.9 | 14.8 | 15.3 | 8.1 | 7.8 | 8.0 |
| 7 | 21.0 | 19.9 | 20.5 | 20.0 | 19.0 | 19.6 | 16.8 | 15.8 | 16.4 | 8.4 | 7.9 | 8.1 |
| 8 | 21.5 | 20.0 | 20.7 | 19.9 | 19.0 | 19.5 | 16.8 | 15.8 | 16.5 | 8.4 | 7.8 | 8.1 |
| 9 | 21.7 | 20.6 | 21.2 | 19.8 | 19.3 | 19.6 | 15.8 | 14.7 | 15.2 | 9.3 | 8.2 | 8.7 |
| 10 | 22.5 | 21.6 | 22.1 | 19.4 | 19.0 | 19.2 | 14.7 | 13.8 | 14.3 | 10.3 | 9.3 | 9.9 |
| 11 | 22.7 | 22.2 | 22.5 | 19.5 | 18.7 | 19.1 | 13.8 | 12.8 | 13.3 | 10.6 | 10.2 | 10.4 |
| 12 | 22.3 | 21.6 | 22.0 | 19.5 | 19.0 | 19.3 | 13.2 | 12.6 | 12.9 | 11.0 | 10.3 | 10.6 |
| 13 | 22.2 | 19.9 | 21.1 | 19.7 | 18.8 | 19.2 | 13.2 | 12.7 | 13.0 | 10.9 | 10.3 | 10.6 |
| 14 | 19.9 | 19.0 | 19.5 | 19.9 | 19.0 | 19.4 | 12.7 | 12.2 | 12.4 | 10.8 | 10.2 | 10.4 |
| 15 | 21.4 | 19.8 | 20.6 | 19.7 | 19.2 | 19.4 | 12.3 | 11.8 | 12.0 | 10.4 | 9.9 | 10.1 |
| 16 | 21.0 | 19.4 | 20.1 | 19.5 | 19.2 | 19.4 | 14.7 | 11.9 | 13.0 | 10.5 | 9.9 | 10.2 |
| 17 | 19.4 | 18.5 | 18.8 | 19.6 | 19.0 | 19.3 | 15.0 | 14.4 | 14.7 | 10.8 | 10.4 | 10.6 |
| 18 | 18.7 | 18.0 | 18.4 | 19.6 | 18.7 | 19.1 | 14.6 | 13.3 | 13.7 | 10.8 | 10.7 | 10.7 |
| 19 | 19.1 | 18.2 | 18.6 | 19.1 | 18.3 | 18.8 | 13.5 | 12.9 | 13.1 | 11.2 | 10.6 | 10.8 |
| 20 | 19.6 | 18.7 | 19.1 | 18.3 | 17.1 | 17.7 | 12.9 | 12.0 | 12.4 | 10.6 | 10.1 | 10.3 |
| 21 | 20.1 | 19.1 | 19.6 | 17.1 | 16.1 | 16.6 | 12.0 | 11.5 | 11.7 | 10.9 | 10.0 | 10.4 |
| 22 | 21.0 | 19.8 | 20.3 | 16.8 | 15.9 | 16.4 | 11.9 | 11.3 | 11.6 | 11.2 | 10.4 | 10.8 |
| 23 | 22.0 | 20.8 | 21.4 | 17.7 | 16.5 | 17.1 | 12.0 | 11.7 | 11.9 | 12.6 | 11.2 | 11.9 |
| 24 | 23.1 | 21.7 | 22.3 | 18.1 | 17.3 | 17.6 | 11.7 | 11.1 | 11.5 | 12.7 | 11.9 | 12.5 |
| 25 | 22.4 | 21.4 | 21.9 | 17.6 | 16.7 | 17.2 | 11.1 | 10.5 | 10.8 | 12.0 | 11.2 | 11.6 |
| 26 | 21.6 | 20.6 | 21.0 | 17.6 | 16.7 | 17.2 | 10.5 | 9.7 | 10.1 | 11.7 | 10.9 | 11.3 |
| 27 | 20.8 | 19.8 | 20.3 | 17.4 | 15.9 | 16.7 | 9.7 | 9.3 | 9.5 | 11.6 | 10.9 | 11.2 |
| 28 | 20.1 | 19.0 | 19.5 | 15.9 | 11.8 | 14.4 | 9.7 | 9.3 | 9.5 | 12.5 | 11.3 | 11.7 |
| 29 | 19.2 | 18.1 | 18.7 | 11.8 | 8.3 | 10.1 | 9.8 | 9.5 | 9.7 | 13.3 | 12.5 | 12.9 |
| 30 | 18.8 | 17.5 | 18.2 | 9.8 | 7.8 | 8.8 | 9.9 | 9.7 | 9.8 | 13.7 | 12.7 | 13.1 |
| 31 | 18.5 | 17.4 | 18.1 | --- | --- | --- | 9.8 | 9.6 | 9.7 | 13.9 | 13.3 | 13.7 |
| MONTH | 23.9 | 17.4 | 20.7 | 21.0 | 7.8 | 18.0 | 16.8 | 9.3 | 12.4 | 13.9 | 7.8 | 10.4 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 13.3 | 12.2 | 12.7 | 11.5 | 11.2 | 11.4 | 16.7 | 16.4 | 16.6 | 23.5 | 22.2 | 22.7 |
| 2 | 12.2 | 11.8 | 12.0 | 11.5 | 9.8 | 10.9 | 17.2 | 16.4 | 16.8 | 24.3 | 23.5 | 23.9 |
| 3 | 12.4 | 11.5 | 11.9 | 9.8 | 8.7 | 9.3 | 17.2 | 17.0 | 17.1 | 24.3 | 24.0 | 24.2 |
| 4 | 12.6 | 10.0 | 11.3 | 9.7 | 8.3 | 9.0 | 17.2 | 16.8 | 17.0 | 24.6 | 23.7 | 24.1 |
| 5 | 10.0 | 9.1 | 9.4 | 10.2 | 8.7 | 9.4 | 17.1 | 16.7 | 16.9 | 24.5 | 24.1 | 24.3 |
| 6 | 9.1 | 8.7 | 8.8 | 11.0 | 9.6 | 10.4 | 16.7 | 16.3 | 16.4 | 24.6 | 23.8 | 24.1 |
| 7 | 9.0 | 8.6 | 8.8 | 12.7 | 10.9 | 11.9 | 16.7 | 16.2 | 16.5 | 24.1 | 23.6 | 23.9 |
| 8 | 9.0 | 8.6 | 8.8 | 13.8 | 12.6 | 13.2 | 16.5 | 16.1 | 16.3 | 24.2 | 23.3 | 23.8 |
| 9 | 9.0 | 8.7 | 8.8 | 14.6 | 13.7 | 14.1 | 17.2 | 16.4 | 16.8 | 24.2 | 23.8 | 24.0 |
| 10 | 9.0 | 8.5 | 8.8 | 14.3 | 13.2 | 13.7 | 17.6 | 17.1 | 17.4 | 24.8 | 24.0 | 24.4 |
| 11 | 9.1 | 8.6 | 8.9 | 13.7 | 13.5 | 13.6 | 18.3 | 17.4 | 17.8 | 25.2 | 24.6 | 24.9 |
| 12 | 9.0 | 8.5 | 8.8 | 14.7 | 13.5 | 14.0 | 19.3 | 18.2 | 18.6 | 25.5 | 24.8 | 25.1 |
| 13 | 9.4 | 8.7 | 9.0 | 15.5 | 13.8 | 14.6 | 20.1 | 19.2 | 19.6 | 25.4 | 24.9 | 25.1 |
| 14 | 9.7 | 9.0 | 9.4 | 16.6 | 14.8 | 15.8 | 20.9 | 20.0 | 20.4 | 24.9 | 23.9 | 24.2 |
| 15 | 10.5 | 9.7 | 10.1 | 17.8 | 16.5 | 17.1 | 21.5 | 20.7 | 21.1 | 24.3 | 23.8 | 24.1 |
| 16 | 10.9 | 10.1 | 10.5 | 17.3 | 16.8 | 17.0 | 21.7 | 21.2 | 21.4 | 24.4 | 23.8 | 24.0 |
| 17 | 10.8 | 10.2 | 10.6 | 17.1 | 16.6 | 16.9 | 21.9 | 21.4 | 21.6 | 24.0 | 22.9 | 23.5 |
| 18 | 11.6 | 10.7 | 11.1 | 17.9 | 16.9 | 17.4 | 22.3 | 21.5 | 21.9 | 23.1 | 22.7 | 22.8 |
| 19 | 12.5 | 11.6 | 12.0 | 18.4 | 17.6 | 18.1 | 22.9 | 22.1 | 22.5 | 23.0 | 22.3 | 22.6 |
| 20 | 13.5 | 12.4 | 12.9 | 18.1 | 17.4 | 17.8 | 23.1 | 22.5 | 22.8 | 23.0 | 22.3 | 22.6 |
| 21 | 13.8 | 13.1 | 13.5 | 17.5 | 16.9 | 17.3 | 23.1 | 22.5 | 22.8 | 23.0 | 22.4 | 22.7 |
| 22 | 14.4 | 13.8 | 14.0 | 16.9 | 15.1 | 16.0 | 23.0 | 22.6 | 22.7 | 22.8 | 22.2 | 22.5 |
| 23 | 13.9 | 13.2 | 13.6 | 15.2 | 14.6 | 15.0 | 22.6 | 22.1 | 22.4 | 23.0 | 22.3 | 22.6 |
| 24 | 13.9 | 13.0 | 13.5 | 14.6 | 14.3 | 14.5 | 22.7 | 22.1 | 22.4 | 23.5 | 22.6 | 23.1 |
| 25 | 14.7 | 13.6 | 14.1 | 14.4 | 14.2 | 14.3 | 22.9 | 22.4 | 22.6 | 24.5 | 23.4 | 23.9 |
| 26 | 13.8 | 11.8 | 12.7 | 14.8 | 14.1 | 14.4 | 22.6 | 22.2 | 22.4 | 25.1 | 24.0 | 24.6 |
| 27 | 12.0 | 11.1 | 11.6 | 14.7 | 14.2 | 14.5 | 22.4 | 21.9 | 22.1 | 25.6 | 24.6 | 25.1 |
| 28 | 11.9 | 11.0 | 11.5 | 14.8 | 13.9 | 14.3 | 22.7 | 21.9 | 22.3 | 25.5 | 24.6 | 25.0 |
| 29 | --- | --- | --- | 15.9 | 14.6 | 15.3 | 22.6 | 22.3 | 22.5 | 25.2 | 24.4 | 24.8 |
| 30 | --- | --- | --- | 16.8 | 15.9 | 16.3 | 22.5 | 22.0 | 22.3 | 24.8 | 23.9 | 24.5 |
| 31 | --- | --- | --- | 17.0 | 16.7 | 16.9 | --- | --- | --- | 25.5 | 24.5 | 25.1 |
| MONTH | 14.7 | 8.5 | 11.0 | 18.4 | 8.3 | 14.3 | 23.1 | 16.1 | 20.0 | 25.6 | 22.2 | 23.9 |

08065350 Trinity River near Crockett, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 25.6 | 24.6 | 25.2 | 28.4 | 27.4 | 27.8 | 32.3 | 30.9 | 31.6 | 30.1 | 28.9 | 29.5 |
| 2 | 26.3 | 25.4 | 25.9 | 28.6 | 27.4 | 27.9 | 32.6 | 30.9 | 31.8 | 30.1 | 29.1 | 29.6 |
| 3 | 27.1 | 26.0 | 26.5 | 28.9 | 27.7 | 28.2 | 32.5 | 31.3 | 31.9 | 30.2 | 28.9 | 29.6 |
| 4 | 27.8 | 26.5 | 27.1 | 29.1 | 27.7 | 28.4 | 32.7 | 30.9 | 31.8 | 29.9 | 29.1 | 29.5 |
| 5 | 28.6 | 27.0 | 27.7 | 29.1 | 28.3 | 28.7 | 32.2 | 30.5 | 31.5 | 30.2 | 28.8 | 29.5 |
| 6 | 29.2 | 27.6 | 28.4 | 28.8 | 27.7 | 28.3 | 32.7 | 30.9 | 31.8 | 29.9 | 29.0 | 29.4 |
| 7 | 29.8 | 28.3 | 29.0 | 29.2 | 28.3 | 28.7 | 32.6 | 31.2 | 31.9 | 29.3 | 28.6 | 28.9 |
| 8 | 29.9 | 28.8 | 29.3 | 29.8 | 28.8 | 29.3 | 32.2 | 31.2 | 31.7 | 28.7 | 28.0 | 28.3 |
| 9 | 29.4 | 28.4 | 28.8 | 30.6 | 29.3 | 29.9 | 31.8 | 31.0 | 31.3 | 28.7 | 27.8 | 28.2 |
| 10 | 30.2 | 28.3 | 29.2 | 31.2 | 29.7 | 30.4 | 31.8 | 30.7 | 31.2 | 29.1 | 27.7 | 28.4 |
| 11 | 30.1 | 29.0 | 29.6 | 31.6 | 30.1 | 30.9 | 31.9 | 30.4 | 31.1 | 29.3 | 27.9 | 28.7 |
| 12 | 30.6 | 29.3 | 30.0 | 31.5 | 30.7 | 31.0 | 31.7 | 30.5 | 31.1 | 29.5 | 28.0 | 28.8 |
| 13 | 31.0 | 29.8 | 30.3 | 31.6 | 30.3 | 30.8 | 31.7 | 30.2 | 30.9 | 29.4 | 28.5 | 29.0 |
| 14 | 30.7 | 29.7 | 30.1 | 30.3 | 29.2 | 29.7 | 30.8 | 30.2 | 30.5 | 29.6 | 28.8 | 29.2 |
| 15 | 30.1 | 29.3 | 29.7 | 29.2 | 28.8 | 28.9 | 30.3 | 28.5 | 29.5 | 29.0 | 28.2 | 28.6 |
| 16 | 29.3 | 28.5 | 28.9 | 29.0 | 28.5 | 28.8 | 28.7 | 27.8 | 28.3 | 28.2 | 27.4 | 27.8 |
| 17 | 29.2 | 27.9 | 28.6 | 29.2 | 28.2 | 28.6 | 29.7 | 28.0 | 28.8 | 27.9 | 27.0 | 27.4 |
| 18 | 29.3 | 28.1 | 28.7 | 29.4 | 28.4 | 28.9 | 30.4 | 28.9 | 29.6 | 28.0 | 27.2 | 27.7 |
| 19 | 29.5 | 28.2 | 28.8 | 28.8 | 27.7 | 28.1 | 30.6 | 29.2 | 29.9 | 27.9 | 27.5 | 27.6 |
| 20 | 29.4 | 28.8 | 29.0 | 28.5 | 27.3 | 27.9 | 30.9 | 29.4 | 30.1 | 28.0 | 26.6 | 27.3 |
| 21 | 29.6 | 28.4 | 28.9 | 29.8 | 28.4 | 29.1 | 31.3 | 29.6 | 30.4 | 27.7 | 26.0 | 26.9 |
| 22 | 29.8 | 28.4 | 29.1 | 30.7 | 29.4 | 30.0 | 31.4 | 29.7 | 30.6 | 27.4 | 25.9 | 26.7 |
| 23 | 29.6 | 28.6 | 29.0 | 31.5 | 30.2 | 30.8 | 31.5 | 30.0 | 30.8 | 26.9 | 25.9 | 26.3 |
| 24 | 30.1 | 28.3 | 29.1 | 32.2 | 30.5 | 31.3 | 31.6 | 30.1 | 30.9 | 26.2 | 25.4 | 25.8 |
| 25 | 30.3 | 28.6 | 29.4 | 32.5 | 30.8 | 31.6 | 32.0 | 30.4 | 31.2 | 26.0 | 24.9 | 25.4 |
| 26 | 30.2 | 28.7 | 29.4 | 32.3 | 30.8 | 31.6 | 31.9 | 30.5 | 31.2 | 26.0 | 24.7 | 25.3 |
| 27 | 29.0 | 27.6 | 28.3 | 32.1 | 30.8 | 31.5 | 31.3 | 29.8 | 30.4 | 26.0 | 24.3 | 25.2 |
| 28 | 29.4 | 27.5 | 28.4 | 31.9 | 30.5 | 31.2 | 30.7 | 29.1 | 29.8 | 26.1 | 24.5 | 25.3 |
| 29 | 29.0 | 28.1 | 28.5 | 32.1 | 30.4 | 31.3 | 30.2 | 28.9 | 29.5 | 26.3 | 24.8 | 25.5 |
| 30 | 28.1 | 27.7 | 27.8 | 32.2 | 30.8 | 31.5 | 29.8 | 28.6 | 29.3 | 26.5 | 25.3 | 25.9 |
| 31 | --- | --- | --- | 32.4 | 30.9 | 31.6 | 30.0 | 28.6 | 29.3 | --- | --- | --- |
| MONTH | 31.0 | 24.6 | 28.6 | 32.5 | 27.3 | 29.8 | 32.7 | 27.8 | 30.6 | 30.2 | 24.3 | 27.7 |
| YEAR | 32.7 | 7.8 | 20.7 | | | | | | | | | |



08065350 Trinity River near Crockett, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

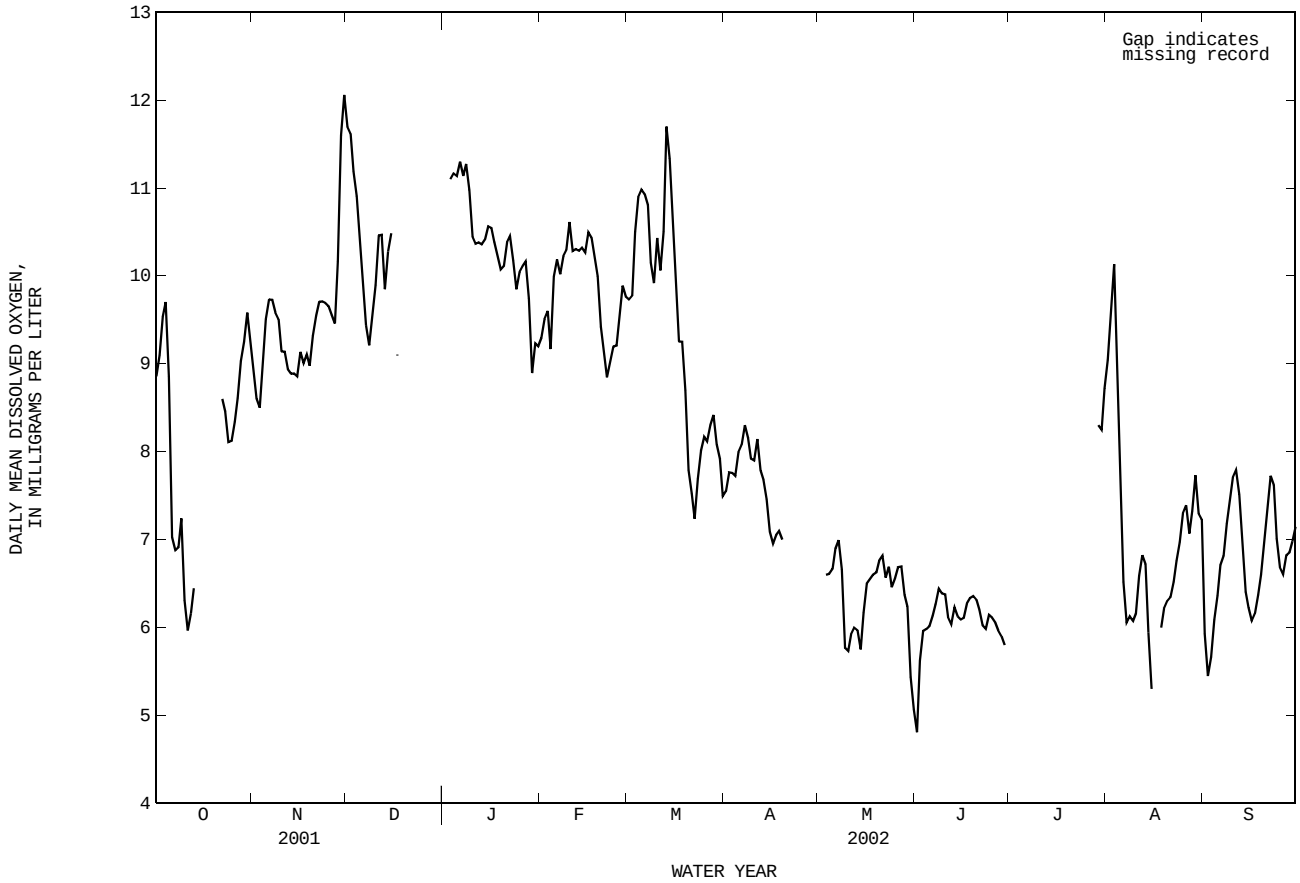
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 9.3 | 8.4 | 8.9 | 9.4 | 8.6 | 9.0 | 12.0 | 11.5 | 11.7 | --- | --- | --- |
| 2 | 9.7 | 8.6 | 9.1 | 9.0 | 8.3 | 8.6 | 12.0 | 11.3 | 11.6 | --- | --- | --- |
| 3 | 10.4 | 8.8 | 9.5 | 9.2 | 8.1 | 8.5 | 11.4 | 10.9 | 11.2 | 11.5 | 10.8 | 11.1 |
| 4 | 11.1 | 8.9 | 9.7 | 10.0 | 8.1 | 9.0 | 11.9 | 10.5 | 10.9 | 11.9 | 10.9 | 11.2 |
| 5 | 9.6 | 8.2 | 8.9 | 10.3 | 8.9 | 9.5 | 10.8 | 10.1 | 10.4 | 11.4 | 10.8 | 11.1 |
| 6 | 8.2 | 6.5 | 7.0 | 10.6 | 9.0 | 9.7 | 10.2 | 9.6 | 9.9 | 12.6 | 10.6 | 11.3 |
| 7 | 7.2 | 6.4 | 6.9 | 10.7 | 9.1 | 9.7 | 9.7 | 9.1 | 9.4 | 11.9 | 10.6 | 11.1 |
| 8 | 7.6 | 6.3 | 6.9 | 10.2 | 9.2 | 9.6 | 9.9 | 9.0 | 9.2 | 11.9 | 11.0 | 11.3 |
| 9 | 7.8 | 6.8 | 7.2 | 10.2 | 8.9 | 9.5 | 10.3 | 9.1 | 9.6 | 11.4 | 10.6 | 11.0 |
| 10 | 7.2 | 5.7 | 6.3 | 9.6 | 8.7 | 9.1 | 10.7 | 9.6 | 9.9 | 10.6 | 10.2 | 10.4 |
| 11 | 6.2 | 5.6 | 6.0 | 9.8 | 8.7 | 9.1 | 10.7 | 10.0 | 10.5 | 11.3 | 10.1 | 10.4 |
| 12 | 6.3 | 5.9 | 6.2 | 9.4 | 8.7 | 8.9 | 11.2 | 10.0 | 10.5 | 11.1 | 9.9 | 10.4 |
| 13 | 7.1 | 5.7 | 6.4 | 9.3 | 8.6 | 8.9 | 10.0 | 9.5 | 9.8 | 10.7 | 9.9 | 10.4 |
| 14 | --- | --- | --- | 9.6 | 8.6 | 8.9 | 11.0 | 9.8 | 10.3 | 10.6 | 10.2 | 10.4 |
| 15 | --- | --- | --- | 9.4 | 8.5 | 8.9 | 11.1 | 10.1 | 10.5 | 10.9 | 10.4 | 10.6 |
| 16 | --- | --- | --- | 9.3 | 9.0 | 9.1 | 10.8 | 9.2 | --- | 10.9 | 10.2 | 10.5 |
| 17 | --- | --- | --- | 9.3 | 8.8 | 9.0 | 9.2 | 8.7 | 9.1 | 10.8 | 10.1 | 10.4 |
| 18 | --- | --- | --- | 10.0 | 8.7 | 9.1 | --- | --- | --- | 10.6 | 10.0 | 10.2 |
| 19 | --- | --- | --- | 9.7 | 8.7 | 9.0 | --- | --- | --- | 10.3 | 9.9 | 10.1 |
| 20 | --- | --- | --- | 9.8 | 8.9 | 9.3 | --- | --- | --- | 10.4 | 9.8 | 10.1 |
| 21 | --- | --- | --- | 10.0 | 9.0 | 9.5 | --- | --- | --- | 11.0 | 10.1 | 10.4 |
| 22 | 8.8 | 8.1 | 8.6 | 10.0 | 9.4 | 9.7 | --- | --- | --- | 10.9 | 10.2 | 10.5 |
| 23 | 8.6 | 8.1 | 8.5 | 10.0 | 9.5 | 9.7 | --- | --- | --- | 10.9 | 9.7 | 10.2 |
| 24 | 8.5 | 7.4 | 8.1 | 10.0 | 9.4 | 9.7 | --- | --- | --- | 10.2 | 9.6 | 9.8 |
| 25 | 8.3 | 7.9 | 8.1 | 10.1 | 9.4 | 9.7 | --- | --- | --- | 10.4 | 9.6 | 10.0 |
| 26 | 8.6 | 8.1 | 8.3 | 9.9 | 9.3 | 9.6 | --- | --- | --- | 10.4 | 9.9 | 10.1 |
| 27 | 8.9 | 8.3 | 8.6 | 9.9 | 9.1 | 9.5 | --- | --- | --- | 10.5 | 9.9 | 10.2 |
| 28 | 9.8 | 8.7 | 9.0 | 11.9 | 9.5 | 10.2 | --- | --- | --- | 10.4 | 9.1 | 9.7 |
| 29 | 9.7 | 8.9 | 9.3 | 12.3 | 11.0 | 11.6 | --- | --- | --- | 9.7 | 8.6 | 8.9 |
| 30 | 10.1 | 9.2 | 9.6 | 12.7 | 11.4 | 12.1 | --- | --- | --- | 9.5 | 9.0 | 9.2 |
| 31 | 9.9 | 8.7 | 9.3 | --- | --- | --- | --- | --- | --- | 9.6 | 9.0 | 9.2 |
| MONTH | --- | --- | --- | 12.7 | 8.1 | 9.5 | --- | --- | --- | --- | --- | --- |

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

08065350 Trinity River near Crockett, TX--Continued

OXYGEN DISSOLVED FROM DCP, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 5.1 | 4.6 | 4.8 | --- | --- | --- | 10.8 | 7.0 | 9.0 | 6.8 | 5.4 | 5.9 |
| 2 | 6.0 | 5.0 | 5.6 | --- | --- | --- | 11.3 | 7.8 | 9.5 | 5.7 | 5.3 | 5.5 |
| 3 | 6.1 | 5.9 | 6.0 | --- | --- | --- | 11.5 | 8.9 | 10.1 | 6.1 | 5.3 | 5.7 |
| 4 | 6.1 | 5.9 | 6.0 | --- | --- | --- | 10.8 | 7.5 | 9.1 | 6.6 | 5.6 | 6.1 |
| 5 | 6.2 | 5.8 | 6.0 | --- | --- | --- | 8.6 | 6.5 | 7.5 | 6.9 | 6.0 | 6.4 |
| 6 | 6.3 | 5.8 | 6.1 | --- | --- | --- | 7.7 | 5.6 | 6.5 | 7.4 | 6.2 | 6.7 |
| 7 | 6.4 | 6.0 | 6.3 | --- | --- | --- | 7.0 | 5.3 | 6.1 | 7.4 | 6.3 | 6.8 |
| 8 | 6.7 | 6.1 | 6.4 | --- | --- | --- | 7.0 | 5.5 | 6.1 | 7.7 | 6.6 | 7.2 |
| 9 | 6.6 | 6.0 | 6.4 | --- | --- | --- | 6.9 | 5.5 | 6.1 | 8.1 | 7.0 | 7.5 |
| 10 | 6.7 | 6.0 | 6.4 | --- | --- | --- | 7.0 | 5.5 | 6.2 | 8.3 | 7.2 | 7.7 |
| 11 | 6.5 | 5.8 | 6.1 | --- | --- | --- | 7.6 | 5.8 | 6.6 | 8.4 | 7.4 | 7.8 |
| 12 | 6.4 | 5.6 | 6.0 | --- | --- | --- | 7.8 | 6.2 | 6.8 | 8.3 | 7.0 | 7.5 |
| 13 | 6.8 | 6.0 | 6.2 | --- | --- | --- | 7.3 | 6.3 | 6.7 | 7.3 | 6.6 | 6.9 |
| 14 | 6.5 | 5.9 | 6.1 | --- | --- | --- | 6.5 | 5.4 | 5.9 | 6.7 | 6.2 | 6.4 |
| 15 | 6.4 | 6.0 | 6.1 | --- | --- | --- | 5.5 | 5.2 | 5.3 | 6.5 | 6.1 | 6.2 |
| 16 | 6.3 | 6.0 | 6.1 | --- | --- | --- | --- | --- | --- | 6.2 | 6.0 | 6.1 |
| 17 | 6.7 | 6.0 | 6.3 | --- | --- | --- | --- | --- | --- | 6.5 | 6.0 | 6.2 |
| 18 | 6.6 | 6.2 | 6.3 | --- | --- | --- | 6.1 | 5.7 | 6.0 | 6.8 | 6.0 | 6.4 |
| 19 | 6.7 | 6.2 | 6.4 | --- | --- | --- | 6.3 | 6.1 | 6.2 | 7.0 | 6.3 | 6.6 |
| 20 | 6.6 | 6.2 | 6.3 | --- | --- | --- | 6.3 | 6.3 | 6.3 | 7.5 | 6.6 | 7.0 |
| 21 | 6.4 | 6.0 | 6.2 | --- | --- | --- | 6.5 | 6.2 | 6.3 | 8.2 | 6.8 | 7.3 |
| 22 | 6.1 | 5.8 | 6.0 | --- | --- | --- | 6.8 | 6.3 | 6.5 | 8.7 | 7.1 | 7.7 |
| 23 | 6.3 | 5.8 | 6.0 | --- | --- | --- | 7.2 | 6.4 | 6.8 | 8.0 | 7.2 | 7.6 |
| 24 | 6.7 | 5.9 | 6.1 | --- | --- | --- | 7.5 | 6.6 | 7.0 | 7.3 | 6.7 | 7.0 |
| 25 | 6.6 | 5.9 | 6.1 | --- | --- | --- | 8.0 | 6.8 | 7.3 | 6.9 | 6.4 | 6.7 |
| 26 | 6.4 | 5.9 | 6.1 | --- | --- | --- | 8.2 | 6.8 | 7.4 | 7.0 | 6.3 | 6.6 |
| 27 | 6.3 | 5.6 | 6.0 | --- | --- | --- | 7.5 | 6.9 | 7.1 | 7.3 | 6.6 | 6.8 |
| 28 | 6.4 | 5.6 | 5.9 | --- | --- | --- | 8.1 | 6.8 | 7.3 | 7.2 | 6.6 | 6.9 |
| 29 | 6.0 | 5.6 | 5.8 | 8.7 | 7.8 | 8.3 | 8.6 | 7.0 | 7.7 | 7.5 | 6.6 | 7.0 |
| 30 | --- | --- | --- | 9.3 | 7.4 | 8.2 | 7.7 | 7.0 | 7.3 | 7.7 | 6.8 | 7.1 |
| 31 | --- | --- | --- | 10.0 | 7.7 | 8.7 | 7.9 | 6.6 | 7.2 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.7 | 5.3 | 6.8 |



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## 08065800 Bedias Creek near Madisonville, TX

LOCATION.--Lat 30°53′05", long 95°46′40", Madison-Walker County line, 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 $mi^2$.

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.--No estimated daily discharges. Records 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 $mi^2$ 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

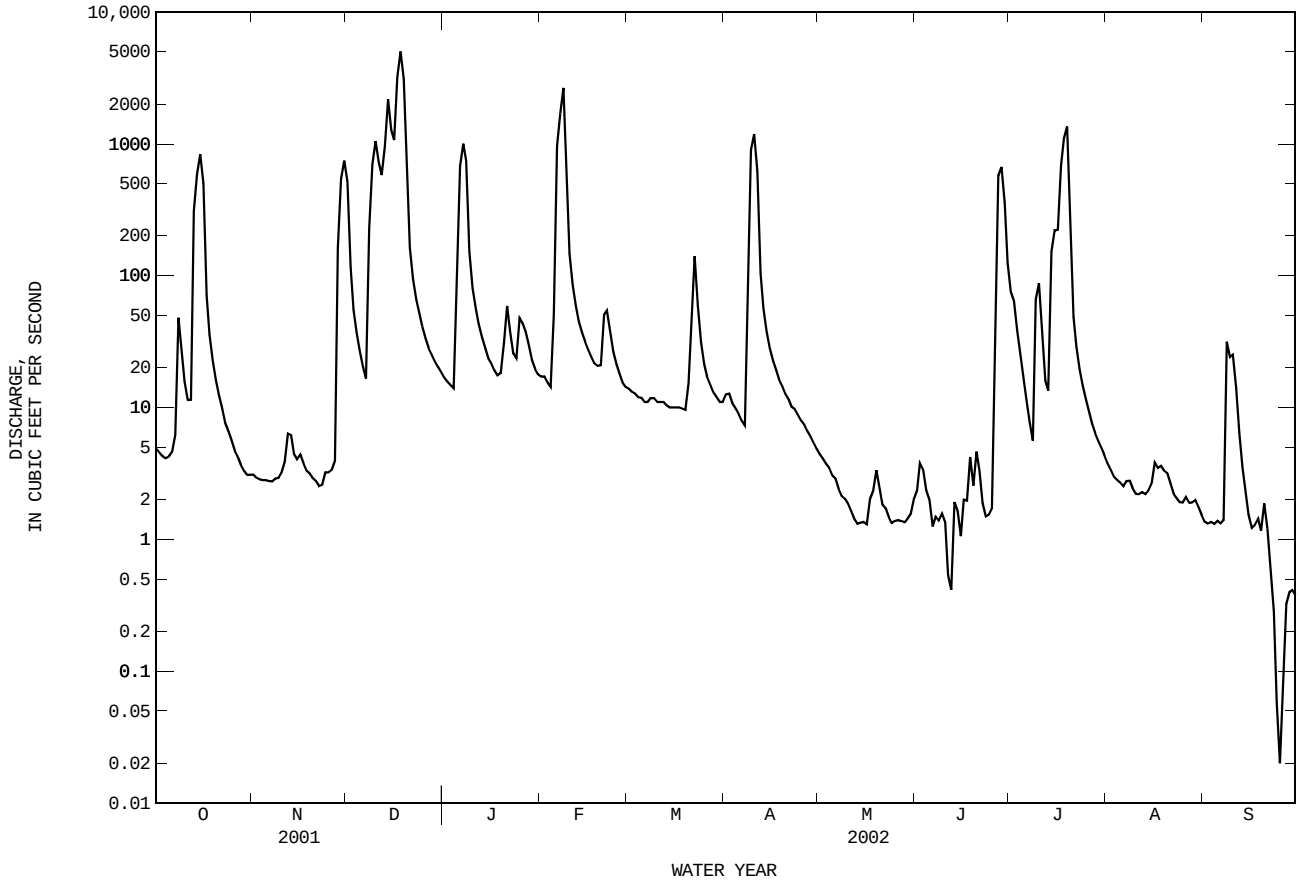
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.8 | 3.1 | 518 | 17 | 17 | 14 | 13 | 4.4 | 2.3 | 75 | 3.8 | 1.4 |
| 2 | 4.5 | 2.9 | 116 | 16 | 17 | 13 | 13 | 4.1 | 3.8 | 64 | 3.4 | 1.3 |
| 3 | 4.3 | 2.9 | 55 | 15 | 15 | 13 | 11 | 3.7 | 3.4 | 38 | 3.0 | 1.4 |
| 4 | 4.1 | 2.8 | 37 | 14 | 14 | 12 | 10 | 3.5 | 2.3 | 27 | 2.8 | 1.3 |
| 5 | 4.2 | 2.8 | 27 | 142 | 51 | 12 | 9.0 | 3.0 | 2.0 | 18 | 2.7 | 1.4 |
| 6 | 4.6 | 2.8 | 20 | 677 | 962 | 11 | 8.0 | 2.9 | 1.2 | 11 | 2.5 | 1.3 |
| 7 | 6.2 | 2.8 | 17 | 1000 | 1690 | 11 | 7.3 | 2.4 | 1.5 | 7.7 | 2.8 | 1.4 |
| 8 | 48 | 2.9 | 228 | 745 | 2650 | 12 | 201 | 2.1 | 1.4 | 5.6 | 2.8 | 31 |
| 9 | 27 | 2.9 | 703 | 152 | 642 | 12 | 898 | 2.0 | 1.6 | 66 | 2.4 | 24 |
| 10 | 16 | 3.2 | 1050 | 80 | 146 | 11 | 1180 | 1.9 | 1.3 | 88 | 2.2 | 25 |
| 11 | 11 | 3.9 | 722 | 57 | 85 | 11 | 621 | 1.7 | 0.53 | 34 | 2.2 | 14 |
| 12 | 11 | 6.3 | 579 | 43 | 59 | 11 | 105 | 1.4 | 0.41 | 16 | 2.3 | 6.5 |
| 13 | 309 | 6.1 | 960 | 34 | 45 | 10 | 56 | 1.3 | 1.9 | 13 | 2.2 | 3.5 |
| 14 | 589 | 4.5 | 2170 | 28 | 37 | 10 | 38 | 1.3 | 1.6 | 152 | 2.3 | 2.3 |
| 15 | 835 | 4.1 | 1270 | 24 | 32 | 10 | 28 | 1.4 | 1.1 | 220 | 2.6 | 1.5 |
| 16 | 500 | 4.4 | 1070 | 22 | 27 | 10 | 23 | 1.3 | 2.0 | 223 | 3.8 | 1.2 |
| 17 | 71 | 3.8 | 3250 | 19 | 24 | 10 | 19 | 2.0 | 2.0 | 686 | 3.5 | 1.3 |
| 18 | 36 | 3.3 | 5020 | 18 | 22 | 9.8 | 16 | 2.3 | 4.2 | 1100 | 3.6 | 1.4 |
| 19 | 23 | 3.2 | 3100 | 18 | 21 | 9.6 | 15 | 3.3 | 2.6 | 1350 | 3.3 | 1.2 |
| 20 | 16 | 2.9 | 755 | 31 | 21 | 15 | 13 | 2.5 | 4.6 | 207 | 3.2 | 1.9 |
| 21 | 12 | 2.8 | 163 | 59 | 50 | 54 | 12 | 1.8 | 3.3 | 49 | 2.6 | 1.2 |
| 22 | 9.7 | 2.5 | 94 | 38 | 54 | 140 | 10 | 1.7 | 1.9 | 29 | 2.2 | 0.59 |
| 23 | 7.6 | 2.6 | 66 | 26 | 37 | 59 | 9.7 | 1.5 | 1.5 | 20 | 2.1 | 0.29 |
| 24 | 6.6 | 3.2 | 51 | 24 | 26 | 31 | 8.8 | 1.3 | 1.5 | 15 | 1.9 | 0.06 |
| 25 | 5.6 | 3.2 | 41 | 48 | 21 | 21 | 8.0 | 1.4 | 1.7 | 11 | 1.9 | 0.02 |
| 26 | 4.7 | 3.4 | 34 | 44 | 18 | 17 | 7.4 | 1.4 | 44 | 9.2 | 2.1 | 0.10 |
| 27 | 4.3 | 3.9 | 28 | 37 | 15 | 15 | 6.7 | 1.4 | 577 | 7.5 | 1.9 | 0.32 |
| 28 | 3.7 | 161 | 25 | 30 | 14 | 13 | 6.0 | 1.3 | 666 | 6.4 | 1.9 | 0.40 |
| 29 | 3.3 | 541 | 22 | 23 | --- | 12 | 5.4 | 1.4 | 356 | 5.6 | 2.0 | 0.41 |
| 30 | 3.1 | 746 | 20 | 19 | --- | 11 | 4.8 | 1.5 | 126 | 4.9 | 1.8 | 0.38 |
| 31 | 3.1 | --- | 19 | 18 | --- | 11 | --- | 2.0 | --- | 4.3 | 1.5 | --- |
| TOTAL | 2588.4 | 1541.2 | 22230 | 3518 | 6812 | 611.4 | 3363.1 | 65.2 | 1820.64 | 4563.2 | 79.3 | 128.07 |
| MEAN | 83.50 | 51.37 | 717.1 | 113.5 | 243.3 | 19.72 | 112.1 | 2.103 | 60.69 | 147.2 | 2.558 | 4.269 |
| MAX | 835 | 746 | 5020 | 1000 | 2650 | 140 | 1180 | 4.4 | 666 | 1350 | 3.8 | 31 |
| MIN | 3.1 | 2.5 | 17 | 14 | 14 | 9.6 | 4.8 | 1.3 | 0.41 | 4.3 | 1.5 | 0.02 |
| AC-FT | 5130 | 3060 | 44090 | 6980 | 13510 | 1210 | 6670 | 129 | 3610 | 9050 | 157 | 254 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 200.9 | 175.4 | 260.7 | 314.4 | 298.9 | 285.0 | 230.7 | 291.8 | 268.5 | 25.28 | 25.33 | 90.70 |
| MAX | 3021 | 1495 | 1083 | 2015 | 1580 | 1353 | 1333 | 1046 | 1745 | 260 | 266 | 1551 |
| (WY) | 1985 | 2001 | 2001 | 1991 | 1992 | 2001 | 1969 | 1969 | 1968 | 1979 | 1995 | 1974 |
| MIN | 0.000 | 0.025 | 0.22 | 1.99 | 3.84 | 3.13 | 2.30 | 2.10 | 0.43 | 0.013 | 0.000 | 0.000 |
| (WY) | 1979 | 1989 | 1968 | 1971 | 2000 | 1971 | 1981 | 2002 | 1998 | 1977 | 1969 | 1969 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1968 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 141297.62 | | 47320.51 | | | |
| ANNUAL MEAN | 387.1 | | 129.6 | | 205.1 | |
| HIGHEST ANNUAL MEAN | | | | | 530 | 2001 |
| LOWEST ANNUAL MEAN | | | | | 32.6 | 2000 |
| HIGHEST DAILY MEAN | 12800 | Jun 8 | 5020 | Dec 18 | 23000 | Jan 10 1991 |
| LOWEST DAILY MEAN | 0.50 | Aug 23 | 0.02 | Sep 25 | 0.00 | Aug 31 1968 |
| ANNUAL SEVEN-DAY MINIMUM | 0.61 | Aug 20 | 0.23 | Sep 23 | 0.00 | Aug 31 1968 |
| MAXIMUM PEAK FLOW | | | 5480 | Dec 18 | 33800 | Sep 14 1974 |
| MAXIMUM PEAK STAGE | | | 17.84 | Dec 18 | 25.07 | Sep 14 1974 |
| ANNUAL RUNOFF (AC-FT) | 280300 | | 93860 | | 148600 | |
| 10 PERCENT EXCEEDS | 899 | | 225 | | 413 | |
| 50 PERCENT EXCEEDS | 27 | | 10 | | 8.9 | |
| 90 PERCENT EXCEEDS | 1.9 | | 1.4 | | 0.08 | |

08065800 Bedias 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 $mi^2$.

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 fair. No known regulation or diversions. Low flow is sustained by wastewater effluent that enters the creek upstream from this station.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

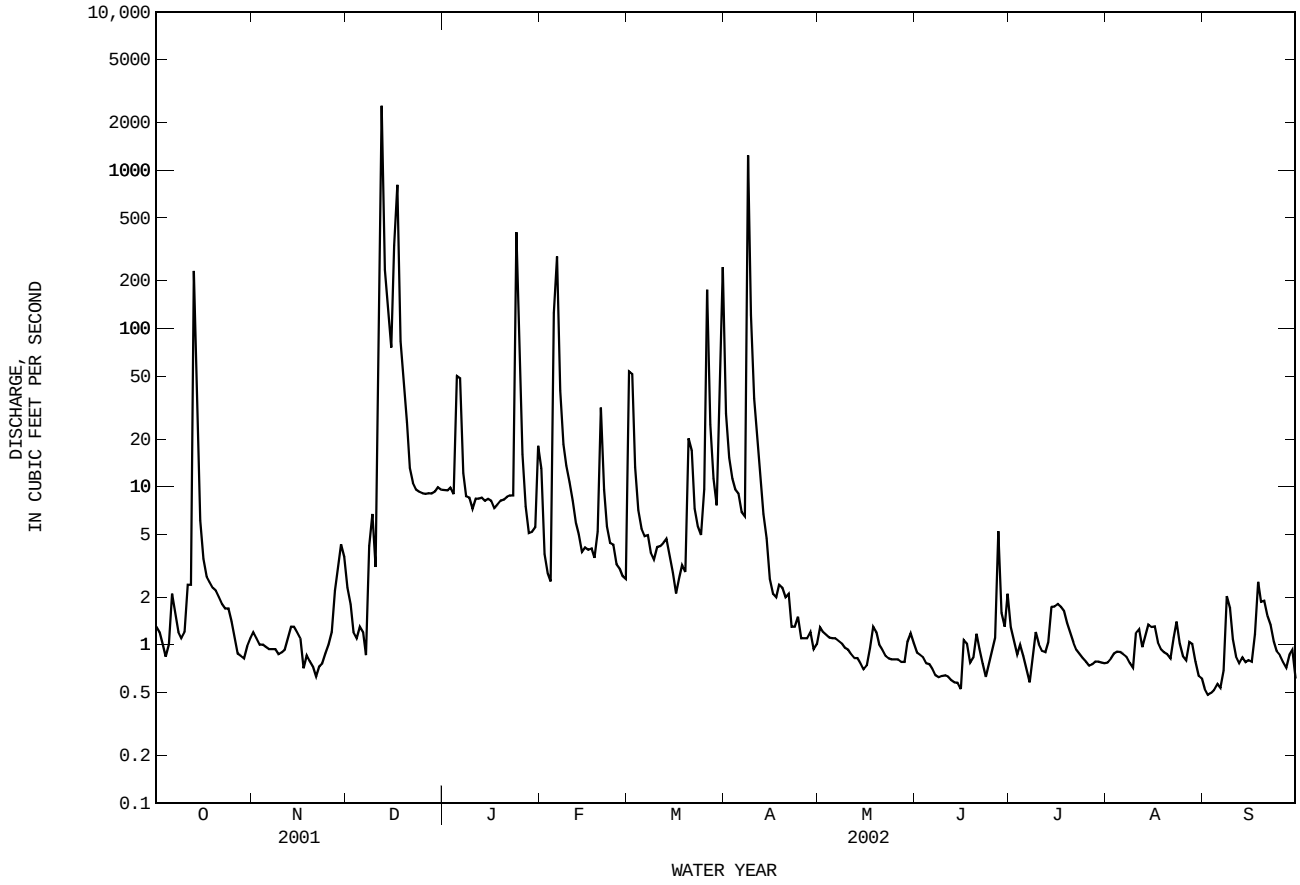
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.3 | 1.2 | 2.3 | 9.5 | 13 | 54 | 29 | 1.3 | 0.89 | 1.3 | 0.77 | 0.53 |
| 2 | 1.2 | 1.1 | 1.8 | 9.5 | 3.8 | 52 | 15 | 1.2 | 0.87 | 1.1 | 0.82 | 0.48 |
| 3 | 1.0 | 1.0 | 1.2 | 9.9 | 2.8 | 13 | 11 | 1.2 | 0.84 | 0.87 | 0.88 | 0.49 |
| 4 | 0.84 | 1.0 | 1.1 | 9.0 | 2.5 | 7.1 | 9.6 | 1.1 | 0.77 | 1.00 | 0.90 | 0.52 |
| 5 | 1.0 | 0.97 | 1.3 | 50 | 125 | 5.4 | 9.1 | 1.1 | 0.75 | 0.85 | 0.90 | 0.56 |
| 6 | 2.1 | 0.94 | 1.2 | 48 | 284 | 4.9 | 6.9 | 1.1 | 0.70 | 0.70 | 0.87 | 0.53 |
| 7 | 1.6 | 0.94 | 0.86 | 12 | 40 | 4.9 | 6.5 | 1.1 | 0.64 | 0.58 | 0.84 | 0.69 |
| 8 | 1.2 | 0.94 | 4.2 | 8.7 | 18 | 3.8 | 1240 | 1.0 | 0.62 | 0.84 | 0.77 | 2.0 |
| 9 | 1.1 | 0.87 | 6.7 | 8.5 | 14 | 3.5 | 121 | 0.96 | 0.63 | 1.2 | 0.72 | 1.7 |
| 10 | 1.2 | 0.89 | 3.1 | 7.2 | 11 | 4.2 | 36 | 0.93 | 0.64 | 1.0 | 1.2 | 1.1 |
| 11 | 2.4 | 0.93 | 36 | 8.4 | 8.2 | 4.2 | 20 | 0.87 | 0.63 | 0.91 | 1.3 | 0.84 |
| 12 | 2.4 | 1.1 | 2550 | 8.4 | 5.9 | 4.4 | 11 | 0.83 | 0.60 | 0.90 | 0.96 | 0.77 |
| 13 | 230 | 1.3 | 235 | 8.5 | 5.0 | 4.7 | 6.7 | 0.82 | 0.58 | 1.0 | 1.1 | 0.83 |
| 14 | 29 | 1.3 | 126 | 8.1 | 3.9 | 3.7 | 4.7 | 0.76 | 0.57 | 1.7 | 1.3 | 0.78 |
| 15 | 6.1 | 1.2 | 76 | 8.3 | 4.1 | 2.9 | 2.6 | 0.70 | 0.52 | 1.7 | 1.3 | 0.80 |
| 16 | 3.5 | 1.1 | 335 | 8.1 | 4.0 | 2.1 | 2.1 | 0.74 | 1.1 | 1.8 | 1.3 | 0.78 |
| 17 | 2.7 | 0.71 | 807 | 7.3 | 4.1 | 2.6 | 2.0 | 0.95 | 1.0 | 1.7 | 1.0 | 1.2 |
| 18 | 2.5 | 0.86 | 83 | 7.7 | 3.5 | 3.2 | 2.4 | 1.3 | 0.77 | 1.6 | 0.93 | 2.5 |
| 19 | 2.3 | 0.79 | 44 | 8.1 | 5.2 | 2.9 | 2.3 | 1.2 | 0.83 | 1.4 | 0.90 | 1.9 |
| 20 | 2.2 | 0.73 | 26 | 8.3 | 32 | 20 | 2.0 | 1.0 | 1.2 | 1.2 | 0.87 | 1.9 |
| 21 | 2.0 | 0.63 | 13 | 8.6 | 9.6 | 17 | 2.1 | 0.93 | 0.94 | 1.0 | 0.82 | 1.5 |
| 22 | 1.8 | 0.73 | 11 | 8.8 | 5.6 | 7.3 | 1.3 | 0.85 | 0.76 | 0.93 | 1.1 | 1.3 |
| 23 | 1.7 | 0.76 | 9.6 | 8.8 | 4.4 | 5.6 | 1.3 | 0.82 | 0.63 | 0.88 | 1.4 | 1.0 |
| 24 | 1.7 | 0.88 | 9.2 | 404 | 4.3 | 4.9 | 1.5 | 0.81 | 0.75 | 0.82 | 1.0 | 0.91 |
| 25 | 1.4 | 1.0 | 9.1 | 93 | 3.2 | 9.6 | 1.1 | 0.81 | 0.90 | 0.78 | 0.85 | 0.86 |
| 26 | 1.1 | 1.2 | 9.0 | 16 | 3.0 | 175 | 1.1 | 0.81 | 1.1 | 0.74 | 0.80 | 0.78 |
| 27 | 0.88 | 2.2 | 9.1 | 7.5 | 2.7 | 25 | 1.1 | 0.78 | 5.2 | 0.75 | 1.0 | 0.72 |
| 28 | 0.85 | 3.0 | 9.0 | 5.1 | 2.6 | 11 | 1.2 | 0.78 | 1.6 | 0.78 | 1.0 | 0.86 |
| 29 | 0.82 | 4.3 | 9.3 | 5.2 | --- | 7.6 | 0.94 | 1.0 | 1.3 | 0.78 | 0.78 | 0.92 |
| 30 | 0.98 | 3.6 | 9.9 | 5.5 | --- | 51 | 1.0 | 1.2 | 2.1 | 0.77 | 0.64 | 0.61 |
| 31 | 1.1 | --- | 9.5 | 18 | --- | 243 | --- | 1.0 | --- | 0.76 | 0.61 | --- |
| TOTAL | 309.97 | 38.17 | 4449.46 | 834.0 | 625.4 | 760.5 | 1552.54 | 29.95 | 30.43 | 32.34 | 29.63 | 30.36 |
| MEAN | 9.999 | 1.272 | 143.5 | 26.90 | 22.34 | 24.53 | 51.75 | 0.966 | 1.014 | 1.043 | 0.956 | 1.012 |
| MAX | 230 | 4.3 | 2550 | 404 | 284 | 243 | 1240 | 1.3 | 5.2 | 1.8 | 1.4 | 2.5 |
| MIN | 0.82 | 0.63 | 0.86 | 5.1 | 2.5 | 2.1 | 0.94 | 0.70 | 0.52 | 0.58 | 0.61 | 0.48 |
| AC-FT | 615 | 76 | 8830 | 1650 | 1240 | 1510 | 3080 | 59 | 60 | 64 | 59 | 60 |
| CFSM | 0.18 | 0.02 | 2.52 | 0.47 | 0.39 | 0.43 | 0.91 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| IN. | 0.20 | 0.02 | 2.90 | 0.54 | 0.41 | 0.50 | 1.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 68.82 | 39.13 | 56.89 | 78.82 | 72.24 | 65.82 | 54.06 | 56.32 | 55.48 | 10.53 | 6.534 | 11.23 |
| MAX | 1891 | 416 | 177 | 320 | 288 | 236 | 270 | 202 | 365 | 100 | 51.4 | 107 |
| (WY) | 1995 | 1999 | 1966 | 1974 | 1992 | 1990 | 1979 | 1982 | 1973 | 1989 | 1975 | 1973 |
| MIN | 0.31 | 0.82 | 1.67 | 1.17 | 1.00 | 0.76 | 1.13 | 0.86 | 0.31 | 0.083 | 0.25 | 0.37 |
| (WY) | 1988 | 1991 | 2000 | 2000 | 2000 | 1971 | 1971 | 1988 | 1971 | 1971 | 2000 | 1989 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1966 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 24001.40 | | 8722.75 | | | |
| ANNUAL MEAN | 65.76 | | 23.90 | | 47.77 | |
| HIGHEST ANNUAL MEAN | | | | | 223 | 1995 |
| LOWEST ANNUAL MEAN | | | | | 1.53 | 2000 |
| HIGHEST DAILY MEAN | 2550 | Dec 12 | 2550 | Dec 12 | 38800 | Oct 17 1994 |
| LOWEST DAILY MEAN | 0.63 | Nov 21 | 0.48 | Sep 2 | 0.02 | Sep 27 1967 |
| ANNUAL SEVEN-DAY MINIMUM | 0.74 | Nov 17 | 0.53 | Aug 31 | 0.02 | Sep 27 1967 |
| MAXIMUM PEAK FLOW | | | 5480 | Dec 12 | 84600 | Oct 17 1994 |
| MAXIMUM PEAK STAGE | | | 16.79 | Dec 12 | 41.85 | Oct 17 1994 |
| ANNUAL RUNOFF (AC-FT) | 47610 | | 17300 | | 34610 | |
| ANNUAL RUNOFF (CFSM) | 1.15 | | 0.42 | | 0.84 | |
| ANNUAL RUNOFF (INCHES) | 15.66 | | 5.69 | | 11.39 | |
| 10 PERCENT EXCEEDS | 75 | | 15 | | 59 | |
| 50 PERCENT EXCEEDS | 4.1 | | 1.3 | | 3.3 | |
| 90 PERCENT EXCEEDS | 1.2 | | 0.76 | | 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-San Jacinto County line, 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 $mi^2$.

### WATER-CONTENT 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.--Records good except those for estimated daily contents, which are fair. 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 $mi^2$ in the Richland, Chambers, Tehuacana, and Bedias Creeks drainage basins. Conservation pool storage is 1,750,000 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 145.0 |
| Design flood | l35.0 |
| Top of tainter gates | 134.0 |
| Top of conservation pool | 131.1 |
| 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, 1,861,000 acre-ft, Dec. 26, 29, elevation, 132.39 ft; minimum contents, 1,717,000 acre-ft, May 6, elevation, 130.70 ft.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

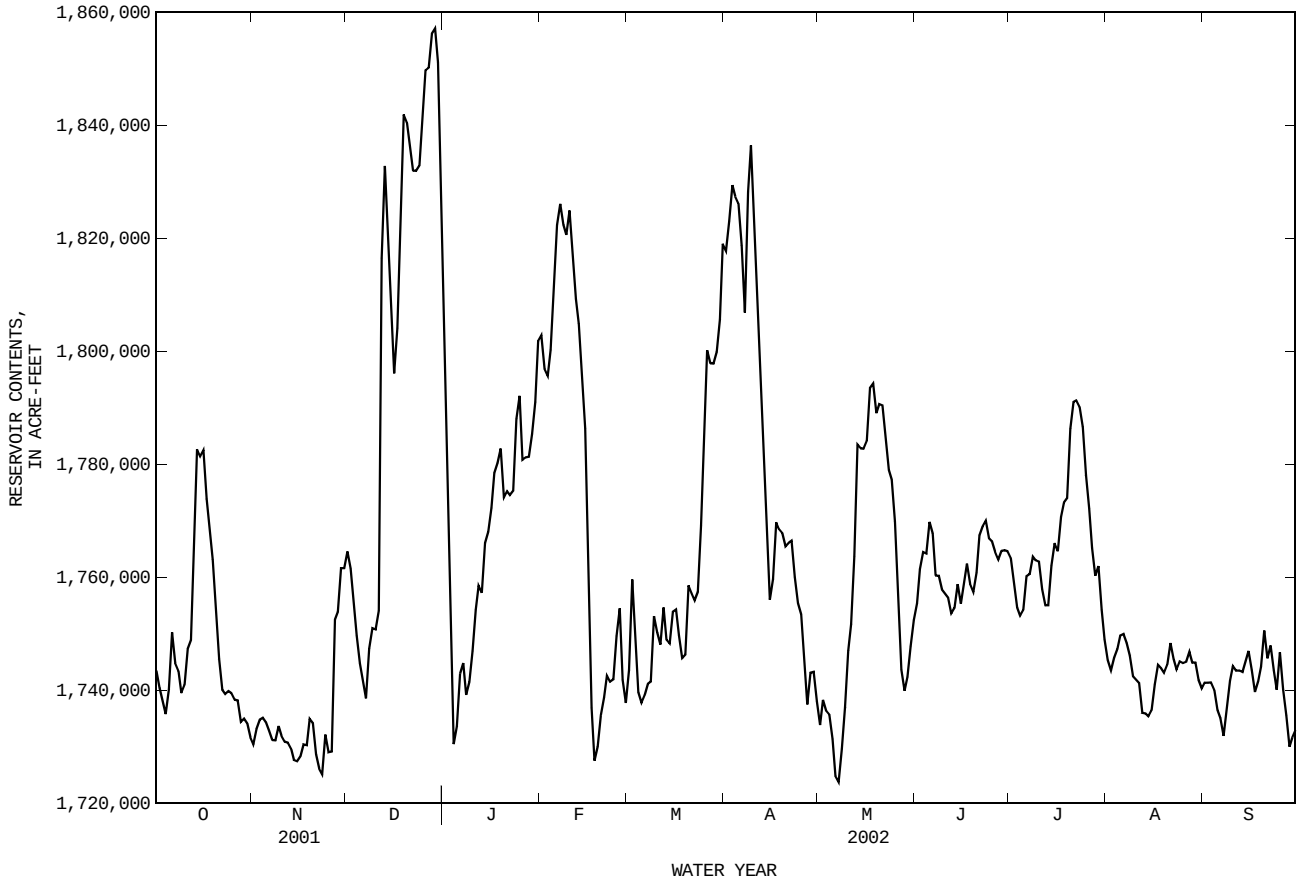
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1743000 | 1730000 | 1765000 | 1799000 | 1803000 | 1744000 | 1818000 | 1734000 | 1755000 | 1763000 | 1745000 | 1741000 |
| 2 | 1740000 | 1733000 | 1761000 | 1771000 | 1797000 | 1760000 | 1823000 | 1738000 | 1761000 | 1759000 | 1743000 | 1741000 |
| 3 | 1738000 | 1735000 | 1755000 | 1750000 | 1796000 | 1751000 | 1829000 | 1736000 | 1764000 | 1755000 | 1746000 | 1741000 |
| 4 | 1736000 | 1735000 | 1750000 | 1730000 | 1800000 | 1740000 | 1827000 | 1736000 | 1764000 | 1753000 | 1747000 | 1740000 |
| 5 | 1740000 | 1734000 | 1745000 | 1734000 | 1810000 | 1738000 | 1826000 | 1731000 | 1770000 | 1754000 | 1750000 | 1736000 |
| 6 | 1750000 | 1733000 | 1741000 | 1743000 | 1822000 | 1739000 | 1819000 | 1725000 | 1768000 | 1760000 | 1750000 | 1735000 |
| 7 | 1745000 | 1731000 | 1738000 | 1745000 | 1826000 | 1741000 | 1807000 | 1724000 | 1760000 | 1761000 | 1748000 | 1732000 |
| 8 | 1743000 | 1731000 | 1747000 | 1739000 | 1822000 | 1741000 | 1828000 | 1730000 | 1760000 | 1764000 | 1746000 | 1737000 |
| 9 | 1739000 | 1734000 | 1751000 | 1741000 | 1821000 | 1753000 | 1836000 | 1737000 | 1758000 | 1763000 | 1742000 | 1742000 |
| 10 | 1741000 | 1732000 | 1751000 | 1747000 | 1825000 | 1750000 | 1823000 | 1747000 | 1757000 | 1763000 | 1742000 | 1744000 |
| 11 | 1747000 | 1731000 | 1754000 | 1754000 | 1816000 | 1748000 | 1810000 | 1752000 | 1756000 | 1758000 | 1741000 | 1743000 |
| 12 | 1749000 | 1731000 | 1816000 | 1759000 | 1809000 | 1755000 | 1797000 | 1764000 | 1753000 | 1755000 | 1736000 | 1743000 |
| 13 | 1766000 | 1730000 | 1833000 | 1757000 | 1805000 | 1749000 | 1780000 | 1783000 | 1754000 | e1755000 | 1736000 | 1743000 |
| 14 | 1783000 | 1728000 | 1820000 | 1766000 | 1796000 | 1748000 | 1766000 | 1783000 | 1759000 | e1762000 | 1735000 | 1745000 |
| 15 | 1781000 | 1727000 | e1807000 | 1768000 | 1786000 | 1754000 | 1756000 | 1783000 | 1755000 | 1766000 | 1736000 | 1747000 |
| 16 | 1782000 | 1728000 | e1796000 | 1772000 | 1765000 | 1754000 | 1760000 | 1784000 | 1759000 | 1765000 | 1741000 | 1744000 |
| 17 | 1774000 | 1730000 | 1804000 | 1778000 | 1737000 | 1750000 | 1770000 | 1793000 | 1762000 | 1771000 | 1744000 | 1740000 |
| 18 | 1769000 | 1730000 | 1819000 | 1780000 | 1727000 | 1746000 | 1768000 | 1794000 | 1759000 | 1773000 | 1744000 | 1742000 |
| 19 | 1763000 | 1735000 | 1842000 | 1783000 | 1730000 | 1746000 | 1768000 | 1789000 | 1757000 | 1774000 | 1743000 | 1744000 |
| 20 | 1754000 | 1734000 | 1840000 | 1774000 | 1736000 | 1759000 | 1765000 | 1791000 | 1761000 | 1786000 | 1744000 | 1751000 |
| 21 | 1746000 | 1729000 | 1836000 | 1775000 | 1739000 | 1757000 | 1766000 | 1790000 | 1767000 | 1791000 | 1748000 | 1746000 |
| 22 | 1740000 | 1726000 | 1832000 | 1775000 | 1743000 | 1756000 | 1766000 | 1785000 | 1769000 | 1791000 | 1745000 | 1748000 |
| 23 | 1739000 | 1725000 | 1832000 | 1775000 | 1741000 | 1757000 | 1760000 | 1779000 | 1770000 | 1790000 | 1744000 | 1743000 |
| 24 | 1740000 | 1732000 | 1833000 | 1788000 | 1742000 | 1769000 | 1755000 | 1777000 | 1767000 | 1787000 | 1745000 | 1740000 |
| 25 | 1739000 | 1729000 | 1841000 | 1792000 | 1750000 | 1789000 | 1753000 | 1770000 | 1766000 | 1778000 | 1745000 | 1747000 |
| 26 | 1738000 | 1729000 | 1850000 | 1781000 | 1754000 | 1800000 | 1745000 | 1755000 | 1764000 | 1772000 | 1745000 | 1740000 |
| 27 | 1738000 | 1752000 | 1850000 | 1781000 | 1742000 | 1798000 | 1737000 | 1744000 | 1763000 | 1765000 | 1747000 | 1735000 |
| 28 | 1734000 | 1754000 | 1856000 | 1781000 | 1738000 | 1798000 | 1743000 | 1740000 | 1765000 | 1760000 | 1745000 | 1730000 |
| 29 | 1735000 | 1762000 | 1857000 | 1785000 | --- | 1800000 | 1743000 | 1742000 | 1765000 | 1762000 | 1745000 | 1732000 |
| 30 | 1734000 | 1762000 | 1851000 | 1791000 | --- | 1806000 | 1738000 | 1748000 | 1765000 | 1754000 | 1742000 | 1733000 |
| 31 | 1732000 | --- | 1832000 | 1802000 | --- | 1819000 | --- | 1752000 | --- | 1749000 | 1740000 | --- |
| MEAN | 1748000 | 1734000 | 1803000 | 1768000 | 1778000 | 1762000 | 1783000 | 1759000 | 1762000 | 1766000 | 1744000 | 1741000 |
| MAX | 1783000 | 1762000 | 1857000 | 1802000 | 1826000 | 1819000 | 1836000 | 1794000 | 1770000 | 1791000 | 1750000 | 1751000 |
| MIN | 1732000 | 1725000 | 1738000 | 1730000 | 1727000 | 1738000 | 1737000 | 1724000 | 1753000 | 1749000 | 1735000 | 1730000 |
| (+) | 130.87 | 131.23 | 132.06 | 131.71 | 130.95 | 131.91 | 130.95 | 131.04 | 131.27 | 131.08 | 130.98 | 130.89 |
| (@) | -15000 | +30000 | +70000 | -30000 | -64000 | +81000 | -81000 | +8000 | +19000 | -16000 | -9000 | -7000 |

CAL YR 2001 MAX 1906000 MIN 1706000 (@) -4000
WTR YR 2002 MAX 1857000 MIN 1724000 (@) -14000

e Estimated

(+) Elevation, in feet, at end of month.
(@) Change in contents, in acre-feet.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

303807095011101 -- Livingston Res Site AC

| Date | Time | RESER-VOIR STORAGE (AC-FT) (00054) | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | HARD-NESS TOTAL (MG/L AS CACO3) (00900) | HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 12... | 1300 | 1760000 | 1.00 | 320 | 8.1 | 12.0 | 760 | 10.5 | 98 | 110 | 14 | 36.4 | 3.67 |
| 12... | 1302 | -- | 10.0 | 310 | 8.1 | 12.0 | 760 | 10.4 | 97 | -- | -- | -- | -- |
| 12... | 1304 | -- | 20.0 | 315 | 8.0 | 11.5 | 760 | 10.3 | 95 | -- | -- | -- | -- |
| 12... | 1306 | -- | 30.0 | 315 | 8.0 | 11.5 | 760 | 10.3 | 95 | -- | -- | -- | -- |
| 12... | 1308 | -- | 40.0 | 310 | 8.0 | 11.5 | 760 | 10.3 | 95 | -- | -- | -- | -- |
| 12... | 1310 | -- | 50.0 | 325 | 8.0 | 11.5 | 760 | 10.4 | 96 | -- | -- | -- | -- |
| 12... | 1312 | -- | 60.0 | 330 | 8.0 | 11.5 | 760 | 10.4 | 96 | -- | -- | -- | -- |
| 12... | 1314 | -- | 73.0 | 335 | 8.0 | 11.5 | 760 | 10.3 | 95 | 110 | 19 | 36.7 | 3.70 |
| AUG | | | | | | | | | | | | | |
| 22... | 1305 | 1750000 | 1.00 | 325 | 8.7 | 29.0 | 765 | 6.7 | 87 | 100 | -- | 34.0 | 4.06 |
| 22... | 1307 | -- | 10.0 | 330 | 7.8 | 28.5 | 765 | 3.5 | 45 | -- | -- | -- | -- |
| 22... | 1309 | -- | 20.0 | 330 | 7.5 | 28.0 | 765 | 2.3 | 29 | -- | -- | -- | -- |
| 22... | 1311 | -- | 30.0 | 330 | 7.5 | 28.0 | 765 | 2.3 | 29 | -- | -- | -- | -- |
| 22... | 1313 | -- | 40.0 | 330 | 7.5 | 28.0 | 765 | 2.3 | 29 | -- | -- | -- | -- |
| 22... | 1315 | -- | 50.0 | 335 | 7.3 | 28.0 | 765 | .6 | 8 | -- | -- | -- | -- |
| 22... | 1317 | -- | 60.0 | 345 | 7.2 | 28.0 | 765 | .6 | 8 | -- | -- | -- | -- |
| 22... | 1319 | -- | 68.0 | 385 | 7.0 | 27.5 | 765 | .6 | 8 | 130 | -- | 43.4 | 4.42 |

303807095011101 -- Livingston Res Site AC

| Date | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | SODIUM AD-SORP-TION RATIO (00931) | SODIUM PERCENT (00932) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 12... | 19.0 | .8 | 27 | 4.73 | 92 | 33.6 | 21.3 | .3 | 7.0 | 186 | -- | <.008 | 1.00 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.008 | 1.00 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | 19.1 | .8 | 27 | 4.73 | 88 | 33.6 | 21.5 | .3 | 7.0 | 184 | -- | <.008 | 1.00 |
| AUG | | | | | | | | | | | | | |
| 22... | 23.1 | 1 | 32 | 4.82 | 133 | 15.4 | 12.0 | .3 | 2.5 | 176 | -- | <.008 | <.05 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | .14 | .009 | .15 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | <.008 | E.03 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 21.5 | .8 | 26 | 4.73 | 147 | 15.4 | 22.2 | .3 | 9.9 | 222 | -- | <.008 | <.05 |

08066190 Livingston Reservoir near Goodrich, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

303807095011101 -- Livingston Res Site AC

| Date | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | <.04 | -- | .44 | .09 | .09 | .261 | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | <.04 | -- | .43 | .09 | .09 | .261 | E6 | <2.0 |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | <.04 | -- | .40 | .10 | .09 | .267 | -- | -- |
| AUG | | | | | | | | |
| 22... | <.04 | -- | .33 | E.05 | .03 | .104 | <10 | <2.0 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | .05 | .32 | .38 | .07 | .06 | .175 | <10 | 13.9 |
| 22... | .30 | .36 | .65 | .14 | .13 | .399 | 15 | 336 |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 3.77 | .37 | 4.1 | 1.86 | 1.66 | 5.08 | 733 | 1410 |

303821095005001 -- Livingston Res Site AL

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | 1400 | 1.00 | 315 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1402 | 10.0 | 315 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1404 | 20.0 | 315 | 8.1 | 12.0 | 760 | 10.4 | 97 |
| 12... | 1406 | 30.0 | 315 | 8.0 | 12.0 | 760 | 10.4 | 97 |
| 12... | 1408 | 40.0 | 315 | 8.0 | 11.5 | 760 | 10.6 | 98 |
| 12... | 1410 | 47.0 | 315 | 8.0 | 11.5 | 760 | 10.6 | 98 |
| AUG | | | | | | | | |
| 22... | 1439 | 1.00 | 325 | 8.7 | 29.5 | 759 | 7.3 | 96 |
| 22... | 1441 | 10.0 | 330 | 7.7 | 30.0 | 759 | 3.4 | 45 |
| 22... | 1443 | 20.0 | 330 | 7.5 | -- | 759 | 29.0 | -- |
| 22... | 1445 | 30.0 | 330 | 7.5 | 28.5 | 759 | 2.2 | 29 |
| 22... | 1447 | 40.0 | 330 | 7.5 | 28.5 | 759 | 2.1 | 27 |
| 22... | 1449 | 49.0 | 335 | 7.5 | 28.5 | 759 | 1.9 | 25 |

303935095055401 -- Livingston Res Site BC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | 1215 | 1.00 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1217 | 10.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1219 | 20.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1221 | 30.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1223 | 40.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1225 | 50.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1227 | 59.0 | 320 | 8.0 | 12.0 | 760 | 10.5 | 98 |
| AUG | | | | | | | | |
| 22... | 1203 | 1.00 | 330 | 8.6 | 30.0 | 765 | 6.6 | 87 |
| 22... | 1205 | 10.0 | 335 | 8.2 | 29.0 | 765 | 5.0 | 65 |
| 22... | 1207 | 20.0 | 335 | 8.3 | 29.0 | 765 | 5.0 | 65 |
| 22... | 1209 | 30.0 | 335 | 8.3 | 29.0 | 765 | 4.9 | 64 |
| 22... | 1211 | 40.0 | 340 | 7.9 | 29.0 | 765 | 3.6 | 47 |
| 22... | 1213 | 47.0 | 345 | 7.4 | 29.0 | 765 | .4 | 5 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

304144095073001 -- Livingston Res Site CC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | 1148 | 1.00 | 320 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1150 | 10.0 | 320 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1152 | 20.0 | 320 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1154 | 30.0 | 325 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1156 | 40.0 | 325 | 8.1 | 12.0 | 760 | 10.5 | 98 |
| 12... | 1158 | 52.0 | 320 | 8.1 | 12.0 | 760 | 10.6 | 99 |
| AUG | | | | | | | | |
| 22... | 1127 | 1.00 | 330 | 8.7 | 30.0 | 765 | 6.4 | 84 |
| 22... | 1129 | 10.0 | 335 | 8.4 | 29.5 | 765 | 4.6 | 60 |
| 22... | 1131 | 20.0 | 335 | 8.2 | 29.0 | 765 | 4.4 | 57 |
| 22... | 1133 | 30.0 | 340 | 8.0 | 29.0 | 765 | 3.5 | 45 |
| 22... | 1135 | 40.0 | 340 | 7.6 | 29.0 | 765 | 2.0 | 26 |
| 22... | 1137 | 46.0 | 345 | 7.5 | 29.0 | 765 | .7 | 9 |

304521095075501 -- Livingston Res Site DC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) | NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 12... | 1105 | 1.00 | 320 | 8.2 | 12.5 | 760 | 10.4 | 98 | -- | <.008 | 1.02 | <.04 | -- |
| 12... | 1107 | 10.0 | 320 | 8.2 | 12.5 | 760 | 10.4 | 98 | -- | -- | -- | -- | -- |
| 12... | 1109 | 20.0 | 320 | 8.1 | 12.5 | 760 | 10.4 | 98 | -- | -- | -- | -- | -- |
| 12... | 1111 | 30.0 | 325 | 8.1 | 12.5 | 760 | 10.4 | 98 | -- | -- | -- | -- | -- |
| 12... | 1113 | 40.0 | 330 | 8.0 | 12.0 | 760 | 10.5 | 98 | -- | -- | -- | -- | -- |
| 12... | 1115 | 53.0 | 330 | 8.0 | 12.0 | 760 | 10.6 | 99 | -- | <.008 | 1.01 | <.04 | -- |
| AUG | | | | | | | | | | | | | |
| 22... | 1015 | 1.00 | 330 | 8.7 | 30.0 | 765 | 6.7 | 88 | -- | <.008 | <.05 | <.04 | -- |
| 22... | 1019 | 10.0 | 330 | 8.7 | 30.0 | 765 | 6.3 | 83 | -- | -- | -- | -- | -- |
| 22... | 1023 | 20.0 | 335 | 8.6 | 29.5 | 765 | 5.6 | 73 | -- | -- | -- | -- | -- |
| 22... | 1029 | 30.0 | 335 | 8.5 | 29.5 | 765 | 5.2 | 68 | -- | <.008 | <.05 | <.04 | -- |
| 22... | 1032 | 40.0 | 340 | 8.3 | 29.5 | 765 | 4.1 | 54 | -- | -- | -- | -- | -- |
| 22... | 1036 | 49.0 | 355 | 7.6 | 29.5 | 765 | 1.1 | 14 | .15 | .029 | .18 | .07 | .38 |

304521095075501 -- Livingston Res Site DC

| Date | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOSPHORUS DISSOLVED (MG/L AS P) (00666) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|
| MAR | | | | | | |
| 12... | .40 | .07 | .08 | .239 | E8 | E1.6n |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | .39 | .09 | .08 | .242 | E6 | E.9n |
| AUG | | | | | | |
| 22... | .30 | E.03 | .02 | .074 | <10 | E1.3 |
| 22... | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- |
| 22... | .34 | E.04 | .04 | .110 | <10 | <2.0 |
| 22... | -- | -- | -- | -- | -- | -- |
| 22... | .45 | .10 | .09 | .285 | <10 | 19.8 |

08066190 Livingston Reservoir near Goodrich, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

304453095064901 -- Livingston Res Site DL

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | 1034 | 1.00 | 315 | 8.1 | 12.5 | 760 | 10.5 | 99 |
| 12... | 1036 | 10.0 | 320 | 8.1 | 12.5 | 760 | 10.5 | 99 |
| 12... | 1038 | 18.0 | 325 | 8.0 | 12.0 | 760 | 10.7 | 100 |
| AUG | | | | | | | | |
| 22... | 0948 | 1.00 | 330 | 8.8 | 30.0 | 765 | 6.3 | 83 |
| 22... | 0950 | 10.0 | 330 | 8.7 | 30.0 | 765 | 5.9 | 78 |
| 22... | 0953 | 18.0 | 340 | 8.0 | 29.5 | 765 | 3.4 | 44 |

304659095052001 -- Livingston Res Site EC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 12... | 1000 | 1.00 | 310 | 8.1 | 12.5 | 760 | 10.5 | 99 | -- | <.008 | 1.01 | <.04 | -- |
| 12... | 1002 | 10.0 | 310 | 8.1 | 12.5 | 760 | 10.5 | 99 | -- | -- | -- | -- | -- |
| 12... | 1004 | 27.0 | 320 | 8.0 | 12.5 | 760 | 10.5 | 99 | -- | -- | -- | -- | -- |
| 12... | 1006 | 27.0 | 320 | 8.0 | 12.5 | 760 | 10.6 | 100 | -- | <.008 | 1.00 | <.04 | -- |
| AUG | | | | | | | | | | | | | |
| 22... | 0911 | 1.00 | 335 | 8.8 | 30.0 | 765 | 6.2 | 82 | -- | <.008 | <.05 | <.04 | -- |
| 22... | 0918 | 10.0 | 335 | 8.8 | 30.0 | 765 | 5.8 | 77 | -- | -- | -- | -- | -- |
| 22... | 0920 | 20.0 | 340 | 8.3 | 29.5 | 765 | 4.0 | 52 | -- | -- | -- | -- | -- |
| 22... | 0928 | 25.0 | 345 | 7.7 | 29.0 | 765 | 2.2 | 29 | .08 | .016 | .10 | .06 | .35 |

304659095052001 -- Livingston Res Site EC

| Date | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|
| MAR | | | | | | |
| 12... | .45 | .08 | .08 | .233 | E6 | E.9n |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- |
| 12... | .43 | .07 | .07 | .218 | E8 | 38.1 |
| AUG | | | | | | |
| 22... | .35 | E.06 | .04 | .129 | <10 | <2.0 |
| 22... | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- |
| 22... | .41 | .08 | .07 | .227 | <10 | 35.7 |

304843095104001 -- Livingston Res Site FC

| Date | Time | SAM-PLING DEPTH (FEET) (00003) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 12... | 1530 | 1.00 | 350 | 8.2 | 13.0 | 760 | 10.3 | 98 |
| 12... | 1532 | 10.0 | 350 | 8.2 | 13.0 | 760 | 10.3 | 98 |
| 12... | 1534 | 20.0 | 350 | 8.2 | 13.0 | 760 | 10.3 | 98 |
| 12... | 1536 | 30.0 | 350 | 8.3 | 13.0 | 760 | 10.3 | 98 |
| 12... | 1538 | 40.0 | 350 | 8.2 | 13.0 | 760 | 10.3 | 98 |
| 12... | 1540 | 50.0 | 350 | 8.2 | 13.0 | 760 | 10.3 | 98 |
| AUG | | | | | | | | |
| 22... | 1540 | 1.00 | 360 | 8.7 | 30.0 | 759 | 5.1 | 68 |
| 22... | 1542 | 10.0 | 360 | 8.4 | 30.0 | 759 | 2.8 | 37 |
| 22... | 1544 | 20.0 | 370 | 7.8 | 30.0 | 759 | 1.6 | 21 |
| 22... | 1546 | 30.0 | 370 | 7.8 | 30.0 | 759 | 1.0 | 13 |
| 22... | 1548 | 40.0 | 375 | 7.6 | 30.0 | 759 | .4 | 5 |
| 22... | 1550 | 48.0 | 375 | 7.7 | 30.0 | 759 | .5 | 7 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305411095144901 -- Livingston Res Site GC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) | SODIUM, DISSOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 13... | 1100 | 1.00 | 400 | 8.2 | 14.0 | 760 | 9.9 | 96 | 130 | 33 | 44.7 | 5.40 | 29.3 |
| 13... | 1102 | 10.0 | 385 | 8.2 | 14.0 | 760 | 9.8 | 95 | -- | -- | -- | -- | -- |
| 13... | 1104 | 20.0 | 410 | 8.1 | 14.0 | 760 | 9.9 | 96 | -- | -- | -- | -- | -- |
| 13... | 1106 | 30.0 | 410 | 8.1 | 13.5 | 760 | 10.0 | 96 | -- | -- | -- | -- | -- |
| 13... | 1108 | 38.0 | 425 | 8.1 | 13.5 | 760 | 10.2 | 98 | 140 | 26 | 45.2 | 5.40 | 30.5 |
| AUG | | | | | | | | | | | | | |
| 23... | 0925 | 1.00 | 420 | 9.0 | 30.5 | 765 | 7.9 | 105 | 130 | 34 | 44.5 | 4.64 | 36.8 |
| 23... | 0927 | 10.0 | 415 | 8.7 | 30.0 | 765 | 5.2 | 69 | -- | -- | -- | -- | -- |
| 23... | 0929 | 20.0 | 425 | 8.6 | 30.0 | 765 | 4.7 | 62 | -- | -- | -- | -- | -- |
| 23... | 0931 | 30.0 | 410 | 8.6 | 30.0 | 765 | 4.5 | 59 | -- | -- | -- | -- | -- |
| 23... | 0933 | 32.0 | 405 | 8.5 | 30.0 | 765 | 4.4 | 58 | 120 | 26 | 40.1 | 4.47 | 33.8 |

305411095144901 -- Livingston Res Site GC

| Date | SODIUM ADSORPTION RATIO (00931) | SODIUM PERCENT (00932) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | FLUORIDE, DISSOLVED (MG/L AS F) (00950) | SILICA, DISSOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 13... | 1 | 31 | 5.27 | 100 | 56.0 | 36.2 | .3 | 7.9 | 252 | 1.50 | .014 | 1.51 | <.04 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.49 | .010 | 1.50 | <.04 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 1 | 32 | 4.91 | 109 | 56.0 | 35.7 | .3 | 8.1 | 258 | 1.52 | .015 | 1.54 | <.04 |
| AUG | | | | | | | | | | | | | |
| 23... | 1 | 37 | 5.85 | 96 | 49.1 | 38.7 | .5 | 6.4 | 247 | .43 | .055 | .49 | <.04 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | .47 | .049 | .52 | <.04 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | .88 | .081 | .96 | E.04 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | 1 | 37 | 5.62 | 92 | 46.5 | 34.4 | .5 | 6.7 | 230 | .48 | .050 | .53 | .06 |

305411095144901 -- Livingston Res Site GC

| Date | NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607) | NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOSPHORUS DISSOLVED (MG/L AS P) (00666) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 13... | -- | .45 | .10 | .11 | .334 | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | .41 | .10 | .11 | .328 | E7 | E.9n |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | .44 | .12 | .11 | .340 | -- | -- |
| AUG | | | | | | | |
| 23... | -- | .43 | .14 | .12 | .380 | <10 | E1.9b |
| 23... | -- | .42 | .16 | .14 | .423 | <10 | E.9 |
| 23... | -- | .47 | .17 | .15 | .475 | <10 | E1.7 |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| 23... | .40 | .46 | .17 | .14 | .432 | <10 | 19.6 |

08066190 Livingston Reservoir near Goodrich, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305447095161401 -- Livingston Res Site HC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) | NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 13... | 1150 | 1.00 | 390 | 8.3 | 14.5 | 760 | 10.6 | 104 | .89 | .009 | .90 | <.04 | -- |
| 13... | 1152 | 10.0 | 390 | 8.3 | 14.5 | 760 | 10.6 | 104 | -- | -- | -- | -- | -- |
| 13... | 1154 | 20.0 | 395 | 8.3 | 14.5 | 760 | 10.6 | 104 | -- | -- | -- | -- | -- |
| 13... | 1156 | 30.0 | 415 | 8.2 | 14.0 | 760 | 10.1 | 98 | -- | -- | -- | -- | -- |
| 13... | 1158 | 38.0 | 420 | 8.2 | 14.0 | 760 | 10.0 | 97 | 1.17 | .011 | 1.18 | <.04 | -- |
| AUG | | | | | | | | | | | | | |
| 23... | 1008 | 1.00 | 405 | 8.8 | 30.0 | 765 | 6.3 | 83 | 1.10 | .122 | 1.22 | <.04 | -- |
| 23... | 1010 | 10.0 | 405 | 8.0 | 29.5 | 765 | 2.9 | 38 | -- | -- | -- | -- | -- |
| 23... | 1012 | 20.0 | 405 | 7.9 | 29.5 | 765 | 2.7 | 35 | -- | -- | -- | -- | -- |
| 23... | 1014 | 30.0 | 405 | 7.8 | 29.5 | 765 | 2.2 | 29 | .24 | .110 | .35 | .22 | .44 |

305447095161401 -- Livingston Res Site HC

| Date | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOSPHORUS DISSOLVED (MG/L AS P) (00666) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|
| MAR | | | | | | |
| 13... | .39 | .07 | .05 | .153 | 20 | E1.6n |
| 13... | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- |
| 13... | .35 | .09 | .07 | .230 | 11 | E3.1b |
| AUG | | | | | | |
| 23... | .48 | .15 | .14 | .432 | <10 | E1.6 |
| 23... | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- |
| 23... | .66 | .12 | .12 | .353 | <10 | 42.4 |

305135095193601 -- Livingston Res Site IC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) |
|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | |
| 13... | 0850 | 1.00 | 210 | 8.1 | 13.5 | 760 | 10.4 | 100 |
| 13... | 0852 | 10.0 | 425 | 8.0 | 13.0 | 760 | 10.4 | 99 |
| 13... | 0854 | 20.0 | 535 | 7.9 | 13.0 | 760 | 10.3 | 98 |
| 13... | 0856 | 30.0 | 555 | 7.7 | 12.5 | 760 | 9.9 | 93 |
| 13... | 0858 | 42.0 | 555 | 7.7 | 12.5 | 760 | 9.9 | 93 |
| AUG | | | | | | | | |
| 23... | 0842 | 1.00 | 665 | 8.2 | 30.0 | 765 | 5.9 | 78 |
| 23... | 0844 | 10.0 | 665 | 8.2 | 30.0 | 765 | 5.6 | 74 |
| 23... | 0846 | 20.0 | 675 | 7.8 | 30.0 | 765 | 4.0 | 53 |
| 23... | 0848 | 30.0 | 680 | 7.8 | 30.0 | 765 | 3.8 | 50 |
| 23... | 0850 | 35.0 | 680 | 7.8 | 30.0 | 765 | 3.8 | 50 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

305135095235401 -- Livingston Res Site JC

| Date | Time | SAMPLING DEPTH (FEET) (00003) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | BAROMETRIC PRESSURE (MM OF HG) (00025) | OXYGEN, DISSOLVED (MG/L) (00300) | OXYGEN, DISSOLVED (PERCENT SATURATION) (00301) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904) | CALCIUM DISSOLVED (MG/L AS CA) (00915) | MAGNESIUM, DISSOLVED (MG/L AS MG) (00925) | SODIUM, DISSOLVED (MG/L AS NA) (00930) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 13... | 0930 | 1.00 | 520 | 8.3 | 13.5 | 760 | 12.2 | 118 | 170 | 67 | 56.2 | 6.62 | 42.1 |
| 13... | 0932 | 10.0 | 535 | 8.3 | 13.5 | 760 | 12.2 | 118 | -- | -- | -- | -- | -- |
| 13... | 0934 | 20.0 | 565 | 8.2 | 13.0 | 760 | 12.0 | 114 | -- | -- | -- | -- | -- |
| 13... | 0936 | 30.0 | 570 | 8.0 | 12.5 | 760 | 11.6 | 109 | -- | -- | -- | -- | -- |
| 13... | 0938 | 40.0 | 560 | 8.0 | 12.5 | 760 | 11.5 | 108 | -- | -- | -- | -- | -- |
| 13... | 0940 | 47.0 | 565 | 8.0 | 12.5 | 760 | 11.2 | 106 | 170 | 73 | 57.8 | 6.98 | 44.2 |
| AUG | | | | | | | | | | | | | |
| 23... | 0756 | 1.00 | 655 | 8.6 | 30.0 | 765 | 8.5 | 112 | 180 | 62 | 61.8 | 6.14 | 67.5 |
| 23... | 0758 | 10.0 | 645 | 8.2 | 30.0 | 765 | 5.7 | 75 | -- | -- | -- | -- | -- |
| 23... | 0800 | 20.0 | 665 | 7.8 | 30.0 | 765 | 4.3 | 57 | -- | -- | -- | -- | -- |
| 23... | 0802 | 30.0 | 670 | 7.8 | 30.0 | 765 | 3.8 | 50 | -- | -- | -- | -- | -- |
| 23... | 0804 | 35.0 | 670 | 7.7 | 30.0 | 765 | 3.7 | 49 | 180 | 63 | 62.6 | 6.25 | 68.1 |

305135095235401 -- Livingston Res Site JC

| Date | SODIUM ADSORPTION RATIO (00931) | SODIUM PERCENT (00932) | POTASSIUM, DISSOLVED (MG/L AS K) (00935) | ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | SULFATE DISSOLVED (MG/L AS SO4) (00945) | CHLORIDE, DISSOLVED (MG/L AS CL) (00940) | FLUORIDE, DISSOLVED (MG/L AS F) (00950) | SILICA, DISSOLVED (MG/L AS SIO2) (00955) | SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301) | NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618) | NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613) | NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631) | NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | | |
| 13... | 1 | 34 | 5.76 | 101 | 73.4 | 50.2 | .5 | 7.3 | 317 | 3.04 | .012 | 3.05 | <.04 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | E.006 | 3.40 | <.04 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | 1 | 35 | 5.88 | 100 | 77.5 | 52.9 | .5 | 8.3 | 330 | 3.46 | .011 | 3.47 | E.02 |
| AUG | | | | | | | | | | | | | |
| 23... | 2 | 44 | 8.36 | 118 | 78.8 | 67.0 | 1.1 | 8.1 | 398 | 5.88 | .131 | 6.01 | .04 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.20 | .157 | 6.36 | E.02 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.31 | .165 | 6.47 | E.02 |
| 23... | 2 | 43 | 8.47 | 119 | 79.3 | 66.5 | 1.1 | 8.3 | 401 | 5.94 | .198 | 6.14 | .05 |

305135095235401 -- Livingston Res Site JC

| Date | NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607) | NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOSPHORUS DISSOLVED (MG/L AS P) (00666) | ORTHO-PHOSPHATE, DISSOLVED (MG/L AS P) (00671) | PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660) | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
|---|---|---|---|---|---|---|---|
| MAR | | | | | | | |
| 13... | -- | .55 | .29 | .28 | .859 | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | .49 | .33 | .31 | .960 | <10 | <2.0 |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | .48 | .32 | .32 | .966 | -- | -- |
| AUG | | | | | | | |
| 23... | .60 | .64 | .63 | .62 | 1.90 | <10 | E1.5n |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | .57 | .67 | .66 | 2.01 | <10 | E1.9 |
| 23... | -- | .61 | .69 | .64 | 1.97 | <10 | E2.8 |
| 23... | .58 | .64 | .67 | .66 | 2.01 | <10 | 28.1 |

Remark codes used in this report:
< -- Less than
E -- Estimated value

Value qualifier codes used in this report:
b -- Value was extrapolated below
n -- Below the NDV

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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 $mi^2$.

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 good. No known regulation or diversions.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

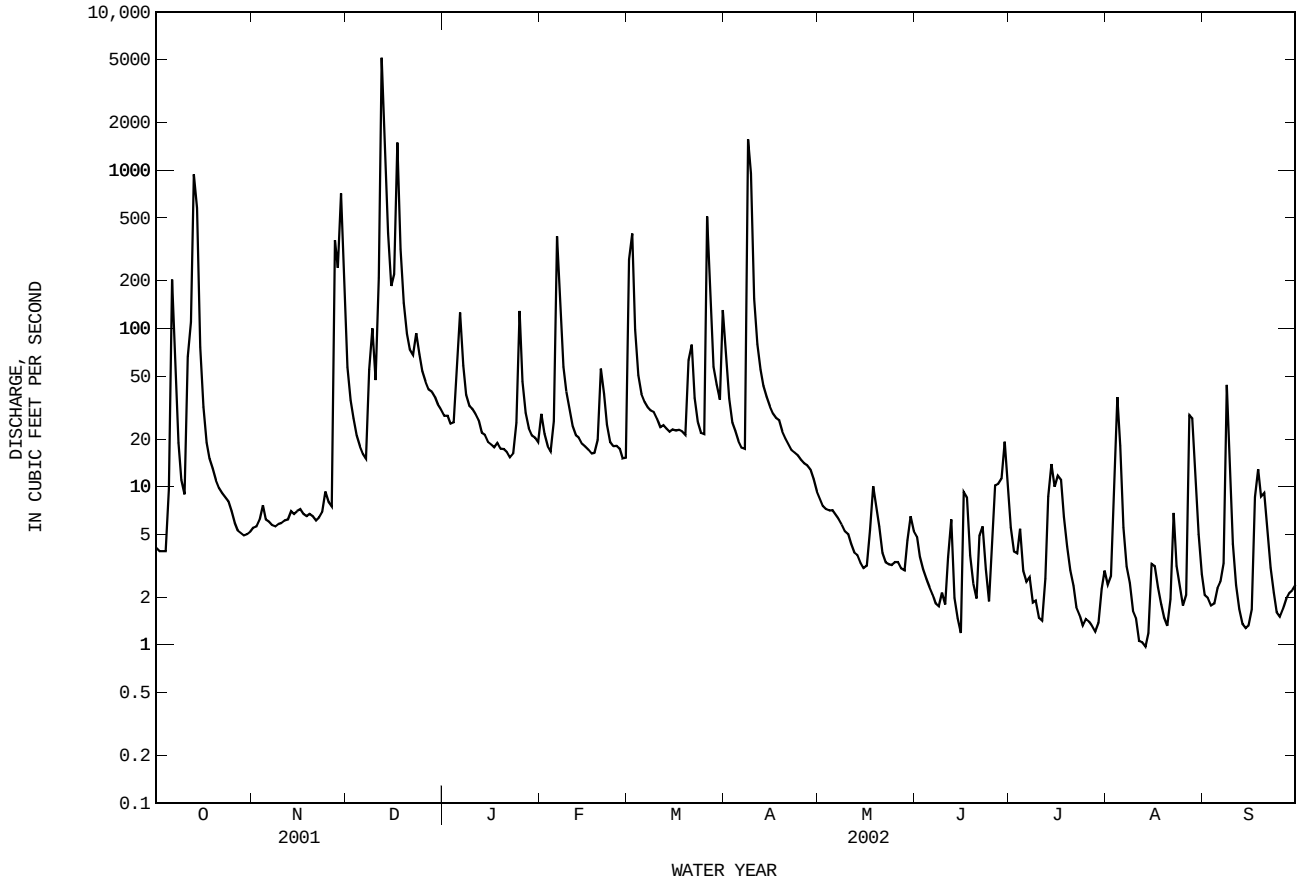
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.1 | 5.5 | 57 | 28 | 29 | 272 | 68 | 8.3 | 4.8 | 5.5 | 2.4 | 2.1 |
| 2 | 3.9 | 5.6 | 35 | 28 | 22 | 397 | 36 | 7.6 | 3.6 | 3.9 | 2.7 | 2.0 |
| 3 | 3.9 | 6.2 | 27 | 25 | 18 | 98 | 25 | 7.2 | 3.0 | 3.8 | 9.4 | 1.8 |
| 4 | 3.9 | 7.6 | 21 | 25 | 17 | 51 | 23 | 7.1 | 2.6 | 5.4 | 37 | 1.8 |
| 5 | 9.6 | 6.2 | 18 | 51 | 26 | 39 | 19 | 7.1 | 2.3 | 2.9 | 18 | 2.3 |
| 6 | 203 | 6.0 | 16 | 126 | 381 | 34 | 18 | 6.7 | 2.1 | 2.5 | 5.5 | 2.5 |
| 7 | 49 | 5.7 | 15 | 58 | 126 | 32 | 17 | 6.2 | 1.8 | 2.7 | 3.1 | 3.3 |
| 8 | 19 | 5.6 | 55 | 38 | 57 | 30 | 1570 | 5.7 | 1.8 | 1.8 | 2.5 | 44 |
| 9 | 11 | 5.8 | 100 | 32 | 40 | 29 | 956 | 5.2 | 2.1 | 1.9 | 1.6 | 16 |
| 10 | 8.9 | 5.9 | 47 | 31 | 31 | 27 | 154 | 5.0 | 1.8 | 1.5 | 1.5 | 4.3 |
| 11 | 66 | 6.1 | 208 | 29 | 24 | 24 | 79 | 4.4 | 3.6 | 1.4 | 1.1 | 2.4 |
| 12 | 110 | 6.2 | 5140 | 26 | 21 | 24 | 55 | 3.8 | 6.2 | 2.6 | 1.0 | 1.7 |
| 13 | 942 | 7.0 | 1320 | 22 | 20 | 23 | 43 | 3.7 | 2.0 | 8.7 | 0.97 | 1.4 |
| 14 | 577 | 6.7 | 399 | 21 | 19 | 22 | 37 | 3.3 | 1.5 | 14 | 1.2 | 1.3 |
| 15 | 76 | 7.0 | 185 | 19 | 18 | 23 | 32 | 3.1 | 1.2 | 10 | 3.2 | 1.3 |
| 16 | 32 | 7.2 | 220 | 18 | 17 | 23 | 29 | 3.1 | 9.3 | 12 | 3.1 | 1.7 |
| 17 | 19 | 6.7 | 1490 | 18 | 16 | 23 | 27 | 5.3 | 8.5 | 11 | 2.3 | 8.6 |
| 18 | 15 | 6.5 | 316 | 19 | 16 | 22 | 26 | 10 | 3.7 | 6.4 | 1.8 | 13 |
| 19 | 13 | 6.7 | 146 | 17 | 20 | 21 | 22 | 7.3 | 2.4 | 4.2 | 1.5 | 8.7 |
| 20 | 11 | 6.5 | 92 | 17 | 56 | 63 | 20 | 5.6 | 2.0 | 3.0 | 1.3 | 9.1 |
| 21 | 9.8 | 6.1 | 74 | 16 | 39 | 79 | 18 | 3.8 | 4.9 | 2.4 | 1.9 | 5.2 |
| 22 | 9.1 | 6.4 | 68 | 15 | 25 | 36 | 17 | 3.3 | 5.6 | 1.7 | 6.8 | 3.1 |
| 23 | 8.6 | 6.9 | 93 | 16 | 19 | 25 | 16 | 3.2 | 3.0 | 1.5 | 3.2 | 2.1 |
| 24 | 8.1 | 9.3 | 68 | 25 | 18 | 22 | 16 | 3.2 | 1.9 | 1.3 | 2.3 | 1.6 |
| 25 | 7.0 | 8.0 | 54 | 129 | 18 | 21 | 15 | 3.3 | 4.6 | 1.5 | 1.8 | 1.5 |
| 26 | 5.9 | 7.5 | 46 | 46 | 17 | 509 | 14 | 3.3 | 10 | 1.4 | 2.1 | 1.7 |
| 27 | 5.3 | 360 | 41 | 29 | 15 | 141 | 14 | 3.0 | 10 | 1.3 | 28 | 1.9 |
| 28 | 5.1 | 241 | 40 | 23 | 15 | 57 | 13 | 3.0 | 11 | 1.2 | 27 | 2.1 |
| 29 | 4.9 | 710 | 37 | 21 | --- | 44 | 11 | 4.6 | 19 | 1.4 | 12 | 2.2 |
| 30 | 5.0 | 189 | 33 | 20 | --- | 35 | 9.3 | 6.5 | 11 | 2.3 | 5.0 | 2.4 |
| 31 | 5.2 | --- | 31 | 19 | --- | 130 | --- | 5.2 | --- | 2.9 | 2.8 | --- |
| TOTAL | 2251.3 | 1670.9 | 10492 | 1007 | 1140 | 2376 | 3399.3 | 158.1 | 147.3 | 124.1 | 194.07 | 153.1 |
| MEAN | 72.62 | 55.70 | 338.5 | 32.48 | 40.71 | 76.65 | 113.3 | 5.100 | 4.910 | 4.003 | 6.260 | 5.103 |
| MAX | 942 | 710 | 5140 | 129 | 381 | 509 | 1570 | 10 | 19 | 14 | 37 | 44 |
| MIN | 3.9 | 5.5 | 15 | 15 | 15 | 21 | 9.3 | 3.0 | 1.2 | 1.2 | 0.97 | 1.3 |
| AC-FT | 4470 | 3310 | 20810 | 2000 | 2260 | 4710 | 6740 | 314 | 292 | 246 | 385 | 304 |
| CFSM | 0.52 | 0.40 | 2.40 | 0.23 | 0.29 | 0.54 | 0.80 | 0.04 | 0.03 | 0.03 | 0.04 | 0.04 |
| IN. | 0.59 | 0.44 | 2.77 | 0.27 | 0.30 | 0.63 | 0.90 | 0.04 | 0.04 | 0.03 | 0.05 | 0.04 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 68.20 | 97.82 | 161.8 | 193.3 | 172.9 | 160.2 | 134.2 | 127.9 | 144.7 | 33.26 | 16.44 | 29.77 |
| MAX | 1342 | 920 | 626 | 1026 | 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 | 0.000 | 0.000 | 0.15 |
| (WY) | 1966 | 1989 | 1971 | 1971 | 1971 | 1971 | 1971 | 1963 | 1971 | 1971 | 1971 | 1967 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1963 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 63013.50 | | 23113.17 | | | |
| ANNUAL MEAN | 172.6 | | 63.32 | | 112.8 | |
| HIGHEST ANNUAL MEAN | | | | | 318 | 1995 |
| LOWEST ANNUAL MEAN | | | | | 12.3 | 1970 |
| HIGHEST DAILY MEAN | 5140 | Dec 12 | 5140 | Dec 12 | 30100 | Oct 17 1994 |
| LOWEST DAILY MEAN | 0.76 | Aug 26 | 0.97 | Aug 13 | 0.00 | Aug 5 1965 |
| ANNUAL SEVEN-DAY MINIMUM | 1.0 | Aug 20 | 1.4 | Jul 23 | 0.00 | Jun 28 1971 |
| MAXIMUM PEAK FLOW | | | 6880 | Dec 12 | 50900 | Oct 17 1994 |
| MAXIMUM PEAK STAGE | | | 16.19 | Dec 12 | 30.49 | Oct 17 1994 |
| ANNUAL RUNOFF (AC-FT) | 125000 | | 45840 | | 81730 | |
| ANNUAL RUNOFF (CFSM) | 1.22 | | 0.45 | | 0.80 | |
| ANNUAL RUNOFF (INCHES) | 16.62 | | 6.10 | | 10.87 | |
| 10 PERCENT EXCEEDS | 355 | | 75 | | 155 | |
| 50 PERCENT EXCEEDS | 27 | | 10 | | 13 | |
| 90 PERCENT EXCEEDS | 4.1 | | 1.9 | | 1.0 | |

08066200 Long King Creek at Livingston, TX--Continued



## 08066250 Trinity River near Goodrich, TX

LOCATION.--Lat 30°34′19", long 94°56′55", Polk-San Jacinto County line, 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 $mi^2$.

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.--Records good. Since installation of gage in Dec. 1965, at least 10% of contributing drainage area has been regulated. Livingston Reservoir (station 08066190) and twenty-one additional upstream reservoirs now regulate flow. Streamflow is affected at times by discharge from the flood-detention pools of 252 floodwater-retarding structures.

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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1960 | 1600 | 6350 | 29800 | 3870 | 2440 | 20600 | 14200 | 3710 | 3610 | 2130 | 1400 |
| 2 | 1350 | 1600 | 6220 | 21300 | 3850 | 4970 | 21300 | 14400 | 3700 | 3600 | 1940 | 1400 |
| 3 | 1320 | 1590 | 6150 | 15500 | 3820 | 4810 | 22800 | 14300 | 3700 | 3610 | 1560 | 1380 |
| 4 | 1310 | 1590 | 5900 | 13500 | 3820 | 3850 | 21500 | 10500 | 3700 | 3610 | 1580 | 1220 |
| 5 | 1330 | 1590 | 5280 | 10800 | e7000 | 2260 | 22500 | 9110 | 3690 | 3580 | 1610 | 1210 |
| 6 | 2700 | 1590 | 4430 | 10700 | 18100 | 2150 | 22900 | 8140 | 3690 | 3570 | 1470 | 1350 |
| 7 | 2960 | 1580 | 3620 | 10900 | 20100 | 2140 | 22800 | 5390 | 3500 | 3580 | 1330 | 1390 |
| 8 | 2320 | 1580 | 3130 | 9210 | 21100 | 2130 | 25900 | 3910 | 2260 | 3580 | 1310 | 1540 |
| 9 | 2270 | 1580 | 3190 | 6610 | 21100 | 2100 | 33000 | 3870 | 2120 | 3580 | 1330 | 1570 |
| 10 | 2270 | 1580 | 3150 | 3590 | 21100 | 2080 | 32200 | 4680 | 2120 | 3570 | 1320 | 1370 |
| 11 | 2330 | 1570 | 3260 | 2310 | 21100 | 2070 | 31800 | 6490 | 2110 | 3560 | 1300 | 1340 |
| 12 | 2460 | 1580 | 17300 | 2200 | 21000 | 2040 | 31600 | 8110 | 2120 | 3560 | 1290 | 1320 |
| 13 | 5770 | 1620 | 26900 | 2190 | 21000 | 2040 | 31200 | 9730 | 2090 | 3660 | 1310 | 1320 |
| 14 | 11300 | 1630 | 24500 | 2170 | 21000 | 2040 | 28800 | 9800 | 1930 | 3660 | 1310 | 1300 |
| 15 | 12200 | 1630 | 23300 | 2160 | 21000 | 2120 | 25100 | 9800 | 2240 | 3610 | 1360 | 1290 |
| 16 | 12000 | 1630 | 19000 | 2150 | 20900 | 3380 | 16500 | 9800 | 2100 | 3620 | 1330 | 1240 |
| 17 | 11800 | 1620 | 20400 | 2210 | 17500 | 3570 | 19200 | 10800 | 2080 | 3840 | 1310 | 1230 |
| 18 | 11900 | 1620 | 16700 | 2350 | 6180 | 3030 | 20700 | 12300 | 2070 | 4210 | 1280 | 1590 |
| 19 | 11900 | 1620 | 19100 | 4360 | 4010 | 2100 | 20700 | 12400 | 2070 | 4210 | 1390 | 1440 |
| 20 | 10800 | 1610 | 25100 | 4620 | 3940 | 3250 | 20700 | 12400 | 2070 | 4210 | 1410 | 1550 |
| 21 | 7630 | 1610 | 25600 | 3570 | 3930 | 4330 | 20700 | 12400 | 2070 | 4210 | 1400 | 1210 |
| 22 | 4520 | 1620 | 26200 | 2210 | 3880 | 4880 | 20600 | 12400 | 2060 | 4200 | 1410 | 1120 |
| 23 | 3410 | 1620 | 26200 | 2140 | 3850 | 5070 | 20700 | 12400 | 2050 | 4190 | 1400 | 1110 |
| 24 | 3120 | 1610 | 26200 | 2540 | 3850 | 7280 | 20600 | 12400 | 2040 | 3950 | 1360 | 1070 |
| 25 | 2260 | 1610 | 26200 | 3880 | 3830 | 11100 | 20600 | 12300 | 2050 | 4280 | 1360 | 1200 |
| 26 | 1670 | 1640 | 29200 | 3960 | 3820 | 14300 | 20600 | 12300 | 2070 | 4370 | 1350 | 1180 |
| 27 | 1620 | 3770 | 32700 | 3910 | 3450 | 16900 | 19500 | 8670 | 2120 | 3660 | 1380 | 1180 |
| 28 | 1610 | 5640 | 34500 | 3880 | 2210 | 17000 | 17700 | 5800 | 2560 | 2230 | 1400 | 1170 |
| 29 | 1600 | 6570 | 36600 | 3880 | --- | 17000 | 17600 | 3850 | 3560 | 2150 | 1380 | 1200 |
| 30 | 1600 | 6310 | 36700 | 3880 | --- | 17400 | 17600 | 3740 | 3630 | 2140 | 1330 | 1120 |
| 31 | 1600 | --- | 36000 | 3880 | --- | 18100 | --- | 3730 | --- | 2130 | 1380 | --- |
| TOTAL | 142890 | 64010 | 579080 | 196360 | 310310 | 187930 | 688000 | 290120 | 77280 | 111540 | 44020 | 39010 |
| MEAN | 4609 | 2134 | 18680 | 6334 | 11080 | 6062 | 22930 | 9359 | 2576 | 3598 | 1420 | 1300 |
| MAX | 12200 | 6570 | 36700 | 29800 | 21100 | 18100 | 33000 | 14400 | 3710 | 4370 | 2130 | 1590 |
| MIN | 1310 | 1570 | 3130 | 2140 | 2210 | 2040 | 16500 | 3730 | 1930 | 2130 | 1280 | 1070 |
| AC-FT | 283400 | 127000 | 1149000 | 389500 | 615500 | 372800 | 1365000 | 575500 | 153300 | 221200 | 87310 | 77380 |

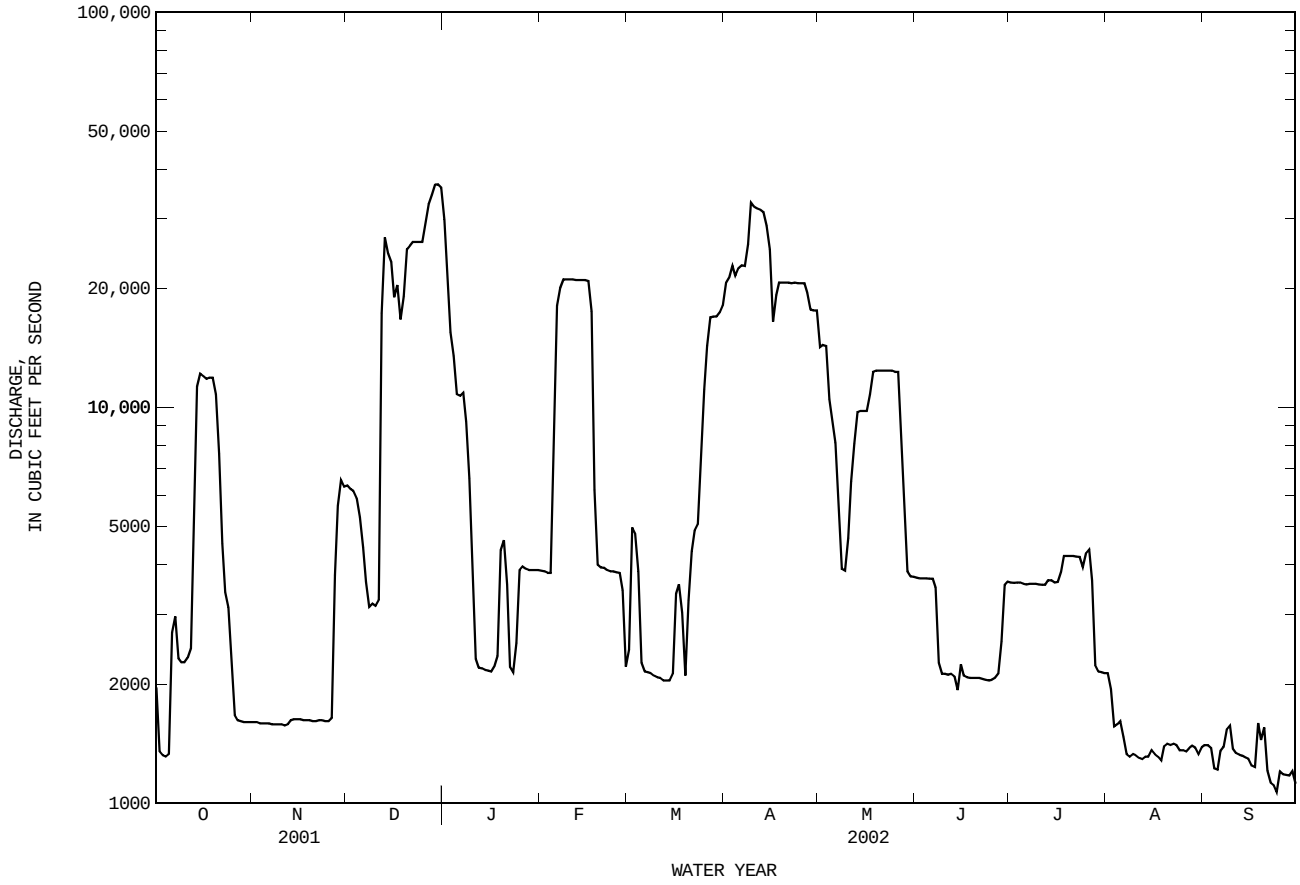
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 3508 | 6568 | 9118 | 9569 | 10050 | 12720 | 11620 | 14350 | 12020 | 4436 | 2173 | 2143 |
| MAX | 25630 | 30260 | 30270 | 45550 | 38660 | 51410 | 30750 | 57850 | 32120 | 24310 | 6819 | 15230 |
| (WY) | 1974 | 1975 | 1992 | 1992 | 1992 | 2001 | 1977 | 1990 | 1973 | 1989 | 1982 | 1974 |
| MIN | 283 | 449 | 317 | 321 | 472 | 724 | 1262 | 1294 | 907 | 1043 | 355 | 455 |
| (WY) | 1973 | 1971 | 1971 | 1971 | 1971 | 1981 | 1971 | 1971 | 1972 | 1971 | 1972 | 1971 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1966 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 5068440 | | 2730550 | | | |
| ANNUAL MEAN | 13890 | | 7481 | | 8132 | |
| HIGHEST ANNUAL MEAN | | | | | 18310 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 746 | 1971 |
| HIGHEST DAILY MEAN | 78700 | Jun 10 | 36700 | Dec 30 | 120000 | Oct 18 1994 |
| LOWEST DAILY MEAN | 685 | Aug 14 | 1070 | Sep 24 | 191 | Aug 6 1971 |
| ANNUAL SEVEN-DAY MINIMUM | 1040 | Aug 21 | 1150 | Sep 22 | 240 | Aug 16 1972 |
| MAXIMUM PEAK FLOW | | | 36800 | Dec 29-31 | 125000 | Oct 18 1994 |
| MAXIMUM PEAK STAGE | | | 28.90 | Dec 30 | 48.97 | Oct 18 1994 |
| ANNUAL RUNOFF (AC-FT) | 10050000 | | 5416000 | | 5891000 | |
| 10 PERCENT EXCEEDS | 35900 | | 21000 | | 23500 | |
| 50 PERCENT EXCEEDS | 6350 | | 3610 | | 2750 | |
| 90 PERCENT EXCEEDS | 1420 | | 1350 | | 776 | |

e Estimated

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 $mi^2$.

PERIOD OF RECORD.--Dec. 1965 to current year.
Water-quality records.--Chemical data: Aug. 1950 to Aug. 1994.

REVISED RECORD.--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.--Records fair except those for estimated daily discharges, which are poor. 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 FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 27 | 30 | 375 | 101 | 76 | 57 | 49 | 27 | 19 | 42 | e16 | e14 |
| 2 | 26 | 29 | 389 | 90 | 91 | 67 | 48 | e26 | 19 | 35 | e15 | e13 |
| 3 | 25 | 29 | 153 | 84 | 90 | 100 | 45 | e26 | 18 | 31 | e15 | e13 |
| 4 | 24 | 28 | 98 | 80 | 78 | 159 | 42 | e25 | 18 | 29 | e15 | e14 |
| 5 | 25 | 27 | 82 | 96 | 73 | 98 | 40 | e24 | 16 | 27 | e15 | e14 |
| 6 | 41 | 26 | 71 | 147 | 122 | 75 | 38 | e23 | 16 | 30 | e16 | e15 |
| 7 | 39 | 25 | 65 | 167 | 161 | 69 | 38 | e22 | 16 | 28 | 16 | 16 |
| 8 | 45 | 25 | 73 | 162 | 214 | 66 | 216 | e21 | 15 | 24 | 18 | 48 |
| 9 | 45 | 24 | 93 | 118 | 152 | 64 | 312 | e21 | 14 | 29 | 18 | 27 |
| 10 | 36 | 24 | 102 | 101 | 106 | 60 | 311 | e20 | 13 | 29 | 17 | 20 |
| 11 | 58 | 24 | 111 | 94 | 87 | 58 | 361 | e20 | 16 | 24 | e16 | 30 |
| 12 | 116 | 24 | 1280 | 89 | 78 | 56 | 158 | e19 | 15 | 22 | e15 | 25 |
| 13 | 401 | 24 | 2380 | 83 | 71 | 54 | 94 | e19 | 13 | 27 | 17 | 20 |
| 14 | 538 | 24 | 2500 | 77 | 67 | 55 | 74 | 18 | 12 | 32 | 22 | 17 |
| 15 | 318 | 24 | 1360 | 72 | 65 | 53 | 65 | 18 | 12 | 34 | 21 | 16 |
| 16 | 405 | 24 | 825 | 69 | 63 | 52 | 58 | 18 | 16 | 43 | 21 | e15 |
| 17 | 181 | 24 | 851 | 67 | 61 | 52 | 52 | 18 | 16 | 44 | 18 | 17 |
| 18 | 93 | 24 | 684 | 66 | 59 | 52 | 50 | 20 | 15 | 44 | 17 | 18 |
| 19 | 73 | 24 | 930 | 68 | 61 | 51 | 46 | 19 | 16 | 42 | 17 | 26 |
| 20 | 62 | 23 | 767 | 71 | 70 | 52 | 43 | 20 | 23 | 33 | 17 | 49 |
| 21 | 56 | 22 | 373 | 74 | 82 | 54 | 41 | 21 | 18 | 27 | 16 | 39 |
| 22 | 51 | 22 | 226 | 71 | 115 | 57 | 38 | 20 | 14 | 23 | 16 | 37 |
| 23 | 48 | 23 | 264 | 68 | 85 | 65 | 35 | 18 | 12 | 21 | 19 | 31 |
| 24 | 44 | 23 | 266 | 69 | 70 | 54 | 34 | 18 | 14 | 20 | 17 | 24 |
| 25 | 30 | 22 | 336 | 77 | 63 | 49 | 32 | 17 | 25 | 18 | 19 | 21 |
| 26 | 24 | 24 | 238 | 108 | 59 | 48 | 31 | 17 | 19 | 17 | 16 | 18 |
| 27 | 23 | 32 | 166 | 161 | 56 | 63 | 30 | 17 | 41 | 18 | e15 | 17 |
| 28 | 21 | 101 | 150 | 101 | 55 | 75 | 29 | 16 | 43 | 17 | e15 | e15 |
| 29 | 25 | 288 | 137 | 82 | --- | 64 | 29 | 22 | 86 | 16 | e14 | e13 |
| 30 | 31 | 323 | 124 | 75 | --- | 55 | 28 | 22 | 66 | 17 | e14 | e12 |
| 31 | 30 | --- | 113 | 74 | --- | 51 | --- | 20 | --- | 16 | e14 | --- |
| TOTAL | 2961 | 1386 | 15582 | 2862 | 2430 | 1985 | 2467 | 632 | 656 | 859 | 517 | 654 |
| MEAN | 95.52 | 46.20 | 502.6 | 92.32 | 86.79 | 64.03 | 82.23 | 20.39 | 21.87 | 27.71 | 16.68 | 21.80 |
| MAX | 538 | 323 | 2500 | 167 | 214 | 159 | 361 | 27 | 86 | 44 | 22 | 49 |
| MIN | 21 | 22 | 65 | 66 | 55 | 48 | 28 | 16 | 12 | 16 | 14 | 12 |
| AC-FT | 5870 | 2750 | 30910 | 5680 | 4820 | 3940 | 4890 | 1250 | 1300 | 1700 | 1030 | 1300 |

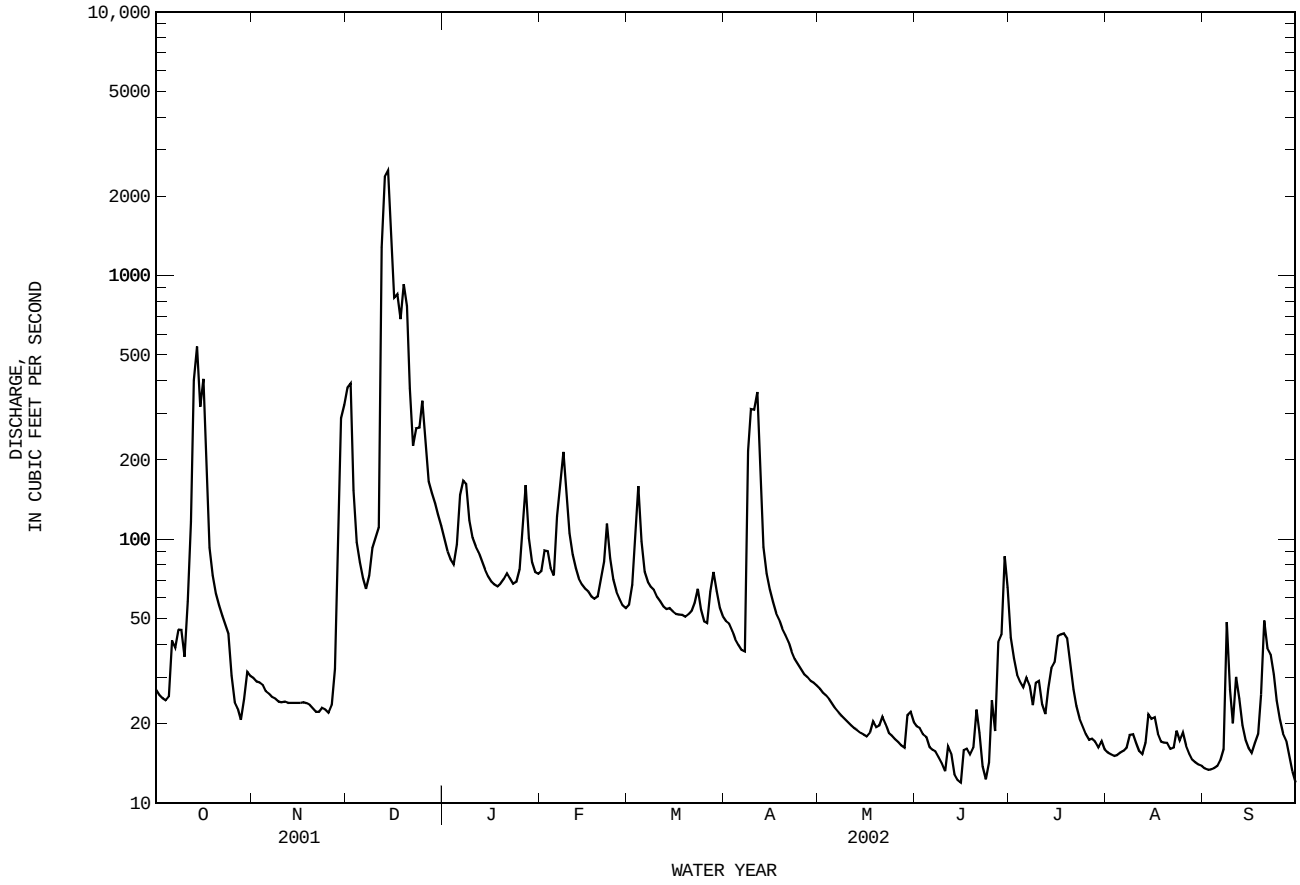
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 77.23 | 94.25 | 164.3 | 209.2 | 214.8 | 183.4 | 176.4 | 175.7 | 144.3 | 61.39 | 43.35 | 48.56 |
| MAX | 1092 | 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1966 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 49938 | | 32991 | | | |
| ANNUAL MEAN | 136.8 | | 90.39 | | 133.6 | |
| HIGHEST ANNUAL MEAN | | | | | 279 | 1975 |
| LOWEST ANNUAL MEAN | | | | | 14.7 | 1971 |
| HIGHEST DAILY MEAN | 2500 | Dec 14 | 2500 | Dec 14 | 12000 | Oct 18 1994 |
| LOWEST DAILY MEAN | 13 | Aug 22 | 12 | Jun 14 | 2.6 | Nov 1 1967 |
| ANNUAL SEVEN-DAY MINIMUM | 13 | Aug 19 | 14 | Jun 9 | 2.9 | Nov 1 1967 |
| MAXIMUM PEAK FLOW | | | 4120 | Dec 13 | 14200 | Apr 5 1999 |
| MAXIMUM PEAK STAGE | | | 23.54 | Dec 13 | 31.41 | Apr 5 1999 |
| ANNUAL RUNOFF (AC-FT) | 99050 | | 65440 | | 96760 | |
| 10 PERCENT EXCEEDS | 357 | | 155 | | 282 | |
| 50 PERCENT EXCEEDS | 45 | | 33 | | 48 | |
| 90 PERCENT EXCEEDS | 20 | | 16 | | 14 | |

e Estimated

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 $mi^2$.

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 good. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. There are no known large diversions between Livingston Reservoir and this station.

DISCHARGE FROM DCP, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3190 | 1590 | 7200 | 34200 | 4050 | 2060 | 21500 | 17100 | 4090 | 3870 | 2050 | 1340 |
| 2 | 2580 | 1590 | 7100 | 26600 | 4020 | 4120 | 23000 | 14400 | 4040 | 3880 | 2010 | 1360 |
| 3 | 2430 | 1580 | 6810 | 18400 | 4010 | 4890 | 24900 | 15600 | 4010 | 3930 | 1560 | 1380 |
| 4 | 2430 | 1580 | 6560 | 15500 | 3970 | 4420 | 24600 | 12200 | 3990 | 3950 | 1510 | 1290 |
| 5 | 2440 | 1570 | 6080 | 11800 | 5600 | 2510 | 24000 | 9690 | 3970 | 3940 | 1550 | 1250 |
| 6 | 3010 | 1560 | 5180 | 11200 | 16700 | 2080 | 25500 | 9150 | 3950 | 3930 | 1480 | 1360 |
| 7 | 3660 | 1560 | 4230 | 11300 | 21600 | 2030 | 25600 | 6760 | 3920 | 3940 | 1290 | 1460 |
| 8 | 2960 | 1570 | 3470 | 10800 | 23200 | 2010 | 27900 | 4680 | 2850 | 3920 | 1240 | 1830 |
| 9 | 2830 | 1570 | 3460 | 8010 | 23400 | 2020 | 38500 | 4360 | 2310 | 3920 | 1260 | 2120 |
| 10 | 2810 | 1560 | 3460 | 4490 | 23300 | 1980 | 39700 | 4580 | 2290 | 3920 | 1240 | 1730 |
| 11 | 2880 | 1560 | 3450 | 2680 | 23200 | 1970 | 39000 | 6440 | 2280 | 3900 | 1210 | 1450 |
| 12 | 3050 | 1560 | 15700 | 2320 | 23100 | 1990 | 38500 | 7720 | 2270 | 3890 | 1200 | 1380 |
| 13 | 5080 | 1590 | 31400 | 2260 | 23000 | 1960 | 38000 | 9720 | 2240 | 4030 | 1190 | 1320 |
| 14 | 11400 | 1610 | 31000 | 2250 | 23000 | 1950 | 35200 | 10000 | 2170 | 4110 | 1220 | 1290 |
| 15 | 13400 | 1610 | 28400 | 2210 | 23000 | 1960 | 31000 | 10000 | 2230 | 4040 | 1230 | 1260 |
| 16 | 13100 | 1610 | 23800 | 2190 | 22900 | 2770 | 22600 | 10000 | 2310 | 4030 | 1260 | 1260 |
| 17 | 12800 | 1610 | 23800 | 2210 | 20900 | 3360 | 18900 | 10500 | 2280 | 4090 | 1210 | 1210 |
| 18 | 12400 | 1610 | 21900 | 2260 | 9470 | 3230 | 23100 | 12500 | 2240 | 4590 | 1180 | 1610 |
| 19 | 12500 | 1620 | 19100 | 3830 | 4230 | 2170 | 23200 | 12700 | 2240 | 4630 | 1160 | 1580 |
| 20 | 11900 | 1610 | 28100 | 4850 | 3900 | 2630 | 23200 | 12700 | 2200 | 4540 | 1220 | 2080 |
| 21 | 9040 | 1600 | 28800 | 4460 | 3860 | 3810 | 23200 | 12700 | 2110 | 4470 | 1210 | 1810 |
| 22 | 5680 | 1610 | 29200 | 2530 | 3840 | 4760 | 23200 | 12700 | 2070 | 4450 | 1230 | 1600 |
| 23 | 3540 | 1620 | 29300 | 2210 | 3770 | 4890 | 23200 | 12700 | 2060 | 4400 | 1260 | 1490 |
| 24 | 3380 | 1630 | 29200 | 2260 | 3710 | 6340 | e23000 | 12700 | 2050 | 4230 | 1230 | 1420 |
| 25 | 2610 | 1600 | 29100 | 3700 | 3680 | 9600 | 23000 | 12700 | 2040 | 4300 | 1230 | 1320 |
| 26 | 1810 | 1640 | 30800 | 4200 | 3640 | 13900 | 23300 | 12700 | 2060 | 4540 | 1230 | 1360 |
| 27 | 1630 | 2710 | 34300 | 4200 | 3560 | 17300 | 22500 | 10500 | 2100 | 4320 | 1230 | 1360 |
| 28 | 1600 | 5790 | 35700 | 4110 | 2360 | 18200 | 20200 | 7080 | 2230 | 2560 | 1280 | 1360 |
| 29 | 1600 | 7160 | 38000 | 4060 | --- | 18200 | 19500 | 4610 | 3520 | 2160 | 1290 | 1370 |
| 30 | 1590 | 7240 | 38300 | 4030 | --- | 18300 | 19200 | 4190 | 3850 | 2120 | 1290 | 1360 |
| 31 | 1590 | --- | 38100 | 4060 | --- | 19200 | --- | 4110 | --- | 2090 | 1280 | --- |
| TOTAL | 160920 | 64320 | 641000 | 219180 | 334970 | 186610 | 788200 | 307490 | 81970 | 120690 | 41030 | 44010 |
| MEAN | 5191 | 2144 | 20680 | 7070 | 11960 | 6020 | 26270 | 9919 | 2732 | 3893 | 1324 | 1467 |
| MAX | 13400 | 7240 | 38300 | 34200 | 23400 | 19200 | 39700 | 17100 | 4090 | 4630 | 2050 | 2120 |
| MIN | 1590 | 1560 | 3450 | 2190 | 2360 | 1950 | 18900 | 4110 | 2040 | 2090 | 1160 | 1210 |
| AC-FT | 319200 | 127600 | 1271000 | 434700 | 664400 | 370100 | 1563000 | 609900 | 162600 | 239400 | 81380 | 87290 |

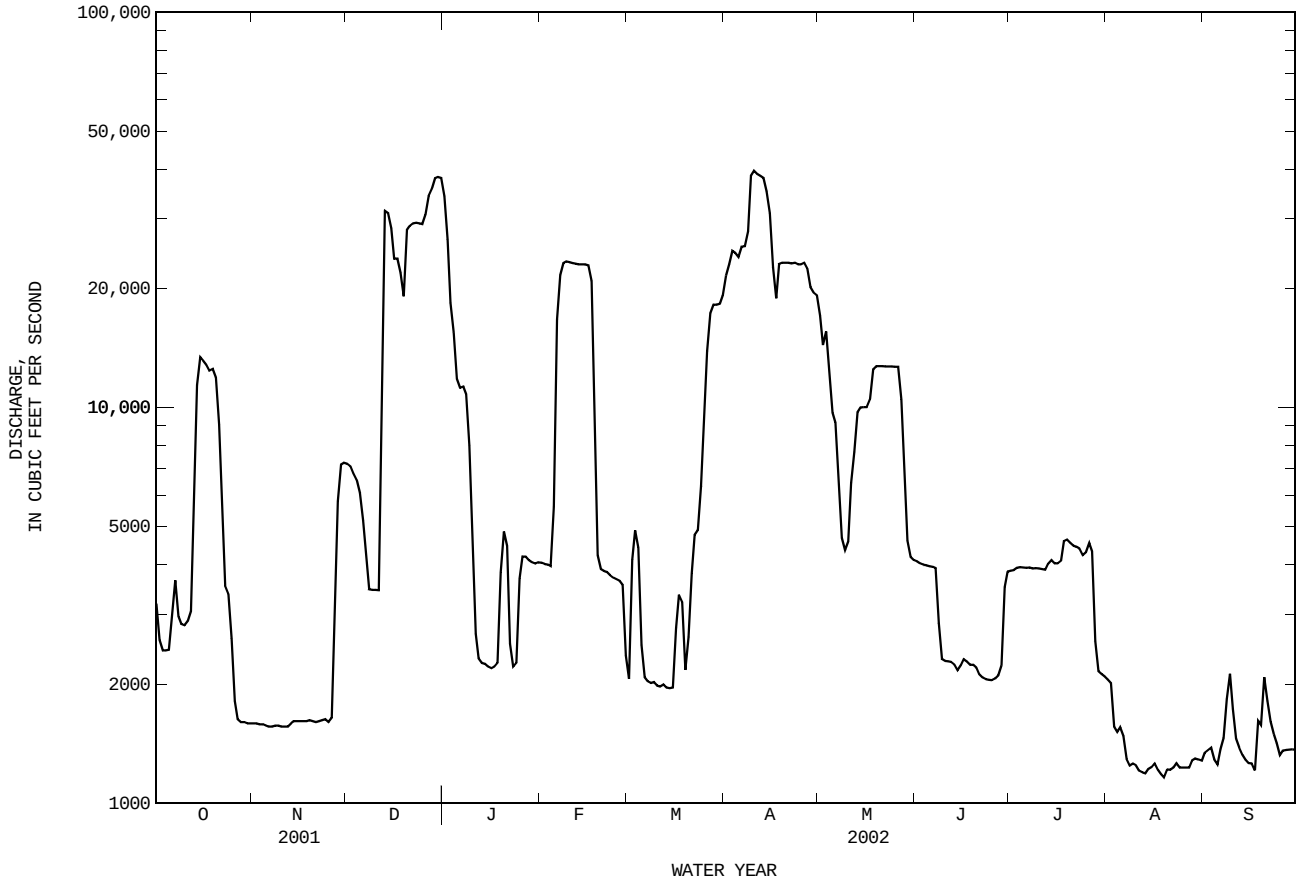
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 3343 | 5540 | 8058 | 9536 | 10000 | 11840 | 11050 | 15150 | 11490 | 4456 | 1878 | 2092 |
| MAX | 25380 | 31160 | 43240 | 51740 | 44510 | 53570 | 65710 | 62000 | 45120 | 28480 | 10140 | 14850 |
| (WY) | 1974 | 1999 | 1941 | 1992 | 1992 | 2001 | 1945 | 1957 | 1957 | 1941 | 1957 | 1974 |
| MIN | 181 | 274 | 351 | 347 | 450 | 528 | 415 | 1285 | 455 | 201 | 128 | 165 |
| (WY) | 1957 | 1956 | 1971 | 1971 | 1971 | 1925 | 1925 | 1937 | 1925 | 1956 | 1956 | 1956 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1924 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 5530770 | | 2990390 | | | |
| ANNUAL MEAN | 15150 | | 8193 | | 7867 | |
| HIGHEST ANNUAL MEAN | | | | | 20630 | 1992 |
| LOWEST ANNUAL MEAN | | | | | 730 | 1971 |
| HIGHEST DAILY MEAN | 74600 | Jun 11 | 39700 | Apr 10 | 117000 | Oct 19 1994 |
| LOWEST DAILY MEAN | 1210 | Aug 14 | 1160 | Aug 19 | 104 | Aug 23 1956 |
| ANNUAL SEVEN-DAY MINIMUM | 1450 | Aug 10 | 1210 | Aug 13 | 106 | Aug 20 1956 |
| MAXIMUM PEAK FLOW | | | 40500 | Apr 9 | 122000 | Oct 19 1994 |
| MAXIMUM PEAK STAGE | | | 30.07 | Dec 30 | 45.80 | May 9 1942 |
| ANNUAL RUNOFF (AC-FT) | 10970000 | | 5931000 | | 5699000 | |
| 10 PERCENT EXCEEDS | 38100 | | 23200 | | 22500 | |
| 50 PERCENT EXCEEDS | 7160 | | 3900 | | 2720 | |
| 90 PERCENT EXCEEDS | 1600 | | 1360 | | 571 | |

e Estimated

08066500 Trinity River at Romayor, TX--Continued



## 08067000 Trinity River at Liberty, TX
(Partial-record Station)

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 $mi^2$.

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 $ft^3/s$). 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. Discharges for current year were computed using stage-discharge relation. During years with predominantly low releases from Livingston Reservoir, discharges are estimated using records for Trinity River near Romayor (station 08066500), intervening area computation, and discharge measurements. 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 $ft^3/s$, 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, 36,100 $ft^3/s$, Dec. 31, gage height, 26.48 ft; minimum discharge not determined (affected by tides); minimum gage height, 5.10 ft, Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | --- | --- | --- | 35400 | --- | --- | 17400 | 17500 | --- | --- | --- | --- |
| 2 | --- | --- | --- | 32900 | --- | --- | 19200 | 15000 | --- | --- | --- | --- |
| 3 | --- | --- | --- | 28200 | --- | --- | 20400 | 13900 | --- | --- | --- | --- |
| 4 | --- | --- | --- | 22200 | --- | --- | 21700 | 13800 | --- | --- | --- | --- |
| 5 | --- | --- | --- | 18400 | --- | --- | 21500 | 11400 | --- | --- | --- | --- |
| 6 | --- | --- | --- | 15200 | --- | --- | 21700 | 10100 | --- | --- | --- | --- |
| 7 | --- | --- | --- | 13400 | 13800 | --- | 22500 | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | 12600 | 18100 | --- | 24600 | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | 11200 | 19900 | --- | 28700 | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | 20300 | --- | 31500 | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | 20500 | --- | 32100 | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | 20600 | --- | 32200 | --- | --- | --- | --- | --- |
| 13 | --- | --- | 18900 | --- | 20700 | --- | 32300 | --- | --- | --- | --- | --- |
| 14 | 10200 | --- | 28300 | --- | 20700 | --- | 32100 | --- | --- | --- | --- | --- |
| 15 | 12400 | --- | 28800 | --- | 20800 | --- | 31200 | --- | --- | --- | --- | --- |
| 16 | 13900 | --- | 27500 | --- | 20800 | --- | 29200 | --- | --- | --- | --- | --- |
| 17 | 13400 | --- | 25400 | --- | 20700 | --- | 23100 | --- | --- | --- | --- | --- |
| 18 | 12800 | --- | 25200 | --- | 18000 | --- | 21900 | 10100 | --- | --- | --- | --- |
| 19 | 12300 | --- | 22000 | --- | 12000 | --- | 22600 | 10700 | --- | --- | --- | --- |
| 20 | 12000 | --- | 22400 | --- | --- | --- | 22300 | 11000 | --- | --- | --- | --- |
| 21 | 11100 | --- | 26000 | --- | --- | --- | 21900 | 11100 | --- | --- | --- | --- |
| 22 | --- | --- | 27100 | --- | --- | --- | 21600 | 11100 | --- | --- | --- | --- |
| 23 | --- | --- | 28500 | --- | --- | --- | 21300 | 11100 | --- | --- | --- | --- |
| 24 | --- | --- | 28800 | --- | --- | --- | 21100 | 11100 | --- | --- | --- | --- |
| 25 | --- | --- | 28700 | --- | --- | --- | 21000 | 11100 | --- | --- | --- | --- |
| 26 | --- | --- | 28700 | --- | --- | 10200 | 21000 | 11100 | --- | --- | --- | --- |
| 27 | --- | --- | 30000 | --- | --- | 11800 | 20900 | 11100 | --- | --- | --- | --- |
| 28 | --- | --- | 31700 | --- | --- | 14400 | 20000 | 10400 | --- | --- | --- | --- |
| 29 | --- | --- | 33100 | --- | --- | 15400 | 18400 | --- | --- | --- | --- | --- |
| 30 | --- | --- | 34500 | --- | --- | 15700 | 17800 | --- | --- | --- | --- | --- |
| 31 | --- | --- | 35400 | --- | --- | 16600 | --- | --- | --- | --- | --- | --- |

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## 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 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

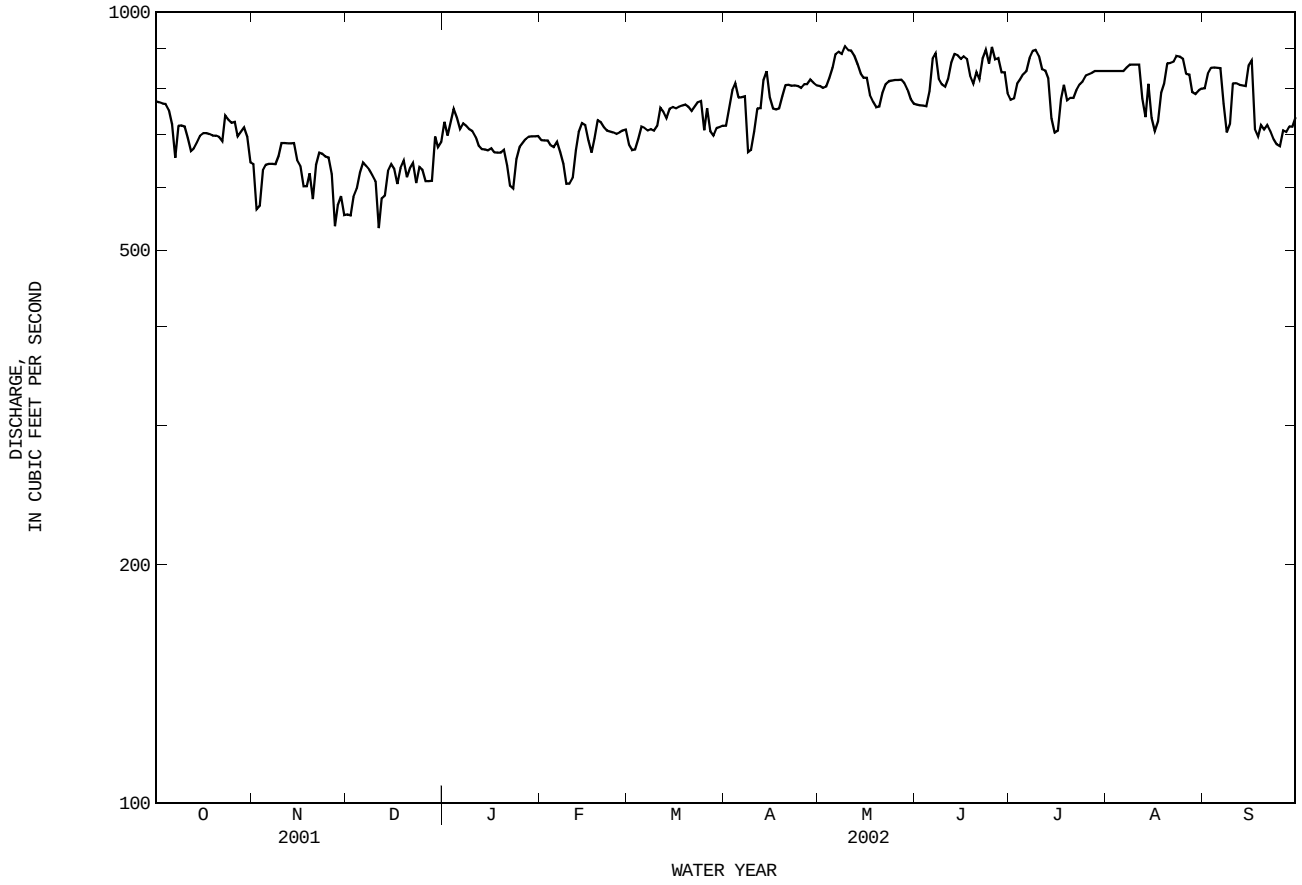
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 771 | 642 | 555 | 726 | 689 | 680 | 718 | 807 | 764 | 774 | 842 | 801 |
| 2 | 769 | 563 | 553 | 698 | 688 | 669 | 756 | 802 | 762 | 778 | 842 | 836 |
| 3 | 766 | 569 | 584 | 723 | 688 | 670 | 796 | 804 | 762 | 811 | 842 | 850 |
| 4 | 765 | 631 | 598 | 754 | 679 | 691 | 812 | 825 | 760 | 821 | 842 | 851 |
| 5 | 752 | 641 | 626 | 735 | 675 | 716 | 780 | 850 | 794 | 835 | 842 | 850 |
| 6 | 721 | 643 | 645 | 711 | 685 | 714 | 780 | 884 | 873 | 842 | 842 | 850 |
| 7 | 654 | 643 | 639 | 723 | 665 | 709 | 782 | 891 | 887 | 875 | 851 | 766 |
| 8 | 718 | 642 | 632 | 718 | 642 | 711 | 665 | 885 | 824 | 894 | 858 | 704 |
| 9 | 719 | 658 | 622 | 711 | 607 | 707 | 669 | 905 | 810 | 896 | 858 | 722 |
| 10 | 717 | 683 | 611 | 707 | 607 | 717 | 706 | 895 | 805 | 880 | 858 | 812 |
| 11 | 693 | 683 | 533 | 695 | 617 | 757 | 755 | 894 | 823 | 846 | 858 | 813 |
| 12 | 667 | 682 | 581 | 678 | 669 | 748 | 756 | 881 | 863 | 843 | 778 | 809 |
| 13 | 672 | 682 | 586 | 671 | 706 | 734 | 820 | 860 | 885 | 825 | 737 | 807 |
| 14 | 684 | 683 | 630 | 670 | 724 | 754 | 841 | 836 | 882 | 734 | 811 | 806 |
| 15 | 698 | 650 | 642 | 669 | 719 | 758 | 779 | 826 | 873 | 704 | 734 | 855 |
| 16 | 703 | 639 | 634 | 672 | 688 | 755 | 755 | 826 | 879 | 707 | 707 | 868 |
| 17 | 703 | 602 | 606 | 664 | 664 | 759 | 753 | 785 | 873 | 777 | 727 | 712 |
| 18 | 701 | 602 | 635 | 664 | 692 | 762 | 755 | 770 | 831 | 809 | 791 | 696 |
| 19 | 698 | 625 | 649 | 664 | 730 | 764 | 783 | 758 | 812 | 773 | 811 | 719 |
| 20 | 698 | 580 | 618 | 670 | 726 | 759 | 809 | 759 | 840 | 779 | 862 | 710 |
| 21 | 695 | 641 | 634 | 640 | 715 | 750 | 809 | 791 | 823 | 779 | 862 | 719 |
| 22 | 687 | 664 | 644 | 603 | 708 | 759 | 807 | 811 | 874 | 796 | 865 | 706 |
| 23 | 740 | 662 | 608 | 598 | 706 | 769 | 808 | 818 | 896 | 810 | 880 | 690 |
| 24 | 731 | 657 | 637 | 651 | 704 | 771 | 806 | 819 | 860 | 817 | 878 | 680 |
| 25 | 724 | 655 | 632 | 674 | 701 | 709 | 802 | 820 | 903 | 831 | 872 | 677 |
| 26 | 726 | 624 | 611 | 682 | 704 | 756 | 810 | 821 | 871 | 835 | 835 | 708 |
| 27 | 696 | 536 | 611 | 690 | 708 | 707 | 810 | 821 | 874 | 837 | 833 | 705 |
| 28 | 705 | 570 | 612 | 696 | 710 | 698 | 821 | 813 | 839 | 842 | 792 | 717 |
| 29 | 714 | 585 | 696 | 697 | --- | 713 | 813 | 798 | 839 | 842 | 788 | 716 |
| 30 | 695 | 554 | 674 | 697 | --- | 716 | 808 | 777 | 790 | 842 | 796 | 736 |
| 31 | 645 | --- | 684 | 697 | --- | 718 | --- | 766 | --- | 842 | 800 | --- |
| TOTAL | 22027 | 18891 | 19222 | 21248 | 19216 | 22600 | 23364 | 25598 | 25171 | 25276 | 25494 | 22891 |
| MEAN | 710.5 | 629.7 | 620.1 | 685.4 | 686.3 | 729.0 | 778.8 | 825.7 | 839.0 | 815.4 | 822.4 | 763.0 |
| MAX | 771 | 683 | 696 | 754 | 730 | 771 | 841 | 905 | 903 | 896 | 880 | 868 |
| MIN | 645 | 536 | 533 | 598 | 607 | 669 | 665 | 758 | 760 | 704 | 707 | 677 |
| AC-FT | 43690 | 37470 | 38130 | 42150 | 38110 | 44830 | 46340 | 50770 | 49930 | 50130 | 50570 | 45400 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 498.1 | 473.4 | 457.0 | 459.1 | 466.3 | 483.4 | 514.9 | 538.8 | 570.2 | 586.8 | 565.1 | 535.2 |
| MAX | 757 | 734 | 718 | 710 | 716 | 729 | 779 | 831 | 973 | 888 | 875 | 814 |
| (WY) | 2000 | 2000 | 2000 | 1999 | 1999 | 2002 | 2002 | 1998 | 1998 | 1998 | 1999 | 2000 |
| 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 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1981 - 2002 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 252306 | | 270998 | | | |
| ANNUAL MEAN | 691.2 | | 742.5 | | 517.4 | |
| HIGHEST ANNUAL MEAN | | | | | 764 | 1998 |
| LOWEST ANNUAL MEAN | | | | | 259 | 1983 |
| HIGHEST DAILY MEAN | 902 | Aug 21 | 905 | May 9 | 1080 | Jun 24 1998 |
| LOWEST DAILY MEAN | 340 | May 15 | 533 | Dec 11 | 52 | Aug 18 1983 |
| ANNUAL SEVEN-DAY MINIMUM | 562 | Nov 27 | 562 | Nov 27 | 167 | Aug 18 1983 |
| MAXIMUM PEAK FLOW | | | 1050 | May 8 | 1220 | Jun 2 1998 |
| MAXIMUM PEAK STAGE | | | 3.00 | May 8 | 3.07 | Jun 2 1998 |
| ANNUAL RUNOFF (AC-FT) | 500400 | | 537500 | | 374800 | |
| 10 PERCENT EXCEEDS | 818 | | 858 | | 770 | |
| 50 PERCENT EXCEEDS | 680 | | 734 | | 522 | |
| 90 PERCENT EXCEEDS | 606 | | 633 | | 256 | |

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 $mi^2$.

### 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 gage height, 11.94 acre-ft, Jan. 2, 3.

GAGE HEIGHT FROM DCP, in FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.94 | 7.20 | 8.06 | 11.85 | <6.88 | 7.10 | 10.19 | 11.10 | 7.89 | 7.41 | <6.88 | <6.88 |
| 2 | 6.93 | 7.17 | 8.27 | 11.9 | <6.88 | 7.72 | 10.36 | 11.04 | 7.70 | 7.33 | <6.88 | 7.02 |
| 3 | 6.89 | 7.15 | 8.30 | 11.92 | <6.88 | 7.32 | 10.57 | 10.81 | 7.64 | 7.31 | <6.88 | 7.16 |
| 4 | 6.92 | 7.08 | 8.25 | 11.80 | <6.88 | <6.88 | 10.66 | 10.60 | 7.65 | 7.27 | <6.88 | 7.34 |
| 5 | 7.05 | 6.94 | 8.16 | 11.66 | <6.88 | 6.92 | 10.79 | 10.36 | 7.60 | 7.06 | <6.88 | 7.59 |
| 6 | 6.99 | 7.02 | 8.08 | 11.41 | <6.88 | 6.90 | 10.92 | 9.98 | 7.52 | <6.88 | <6.88 | 7.75 |
| 7 | 6.86 | 7.03 | 7.90 | 11.01 | 7.31 | <6.88 | 11.08 | 9.60 | 7.40 | <6.88 | <6.88 | 8.12 |
| 8 | 7.06 | 6.94 | 7.60 | 10.61 | 8.03 | <6.88 | 11.50 | 9.37 | 7.36 | <6.88 | <6.88 | 8.86 |
| 9 | 7.38 | 6.91 | 7.08 | 10.24 | 8.90 | 7.00 | 11.64 | 9.12 | 7.45 | 7.10 | <6.88 | 9.51 |
| 10 | 7.62 | <6.88 | <6.88 | 9.73 | 9.68 | <6.88 | 11.66 | 8.61 | 7.46 | 7.24 | 7.03 | 9.14 |
| 11 | 7.97 | <6.88 | <6.88 | 9.12 | 10.10 | <6.88 | 11.73 | 8.26 | 7.57 | 7.13 | 7.40 | 8.66 |
| 12 | 8.24 | <6.88 | 7.36 | 8.48 | 10.38 | 7.00 | 11.79 | 8.34 | 7.62 | 7.09 | 7.54 | 8.17 |
| 13 | 8.48 | <6.88 | 8.14 | 7.88 | 10.59 | <6.88 | 11.81 | 8.38 | 7.47 | 7.19 | 7.82 | 7.75 |
| 14 | 8.64 | 7.04 | 9.42 | 7.38 | 10.71 | <6.88 | 11.85 | 8.08 | 7.27 | 7.14 | 8.02 | 7.58 |
| 15 | 8.78 | 7.32 | 10.48 | 6.89 | 10.83 | 6.97 | 11.89 | 8.32 | <6.88 | 7.07 | 8.45 | 7.53 |
| 16 | 9.29 | 7.55 | 11.21 | <6.88 | 10.88 | 6.94 | 11.91 | 8.67 | 7.08 | 7.29 | 9.08 | 7.31 |
| 17 | 9.51 | 7.67 | 11.60 | <6.88 | 10.90 | 6.93 | 11.86 | 8.92 | <6.88 | 7.42 | 8.74 | 7.24 |
| 18 | 9.74 | 7.85 | 11.61 | <6.88 | 10.94 | 7.01 | 11.68 | 8.82 | <6.88 | 7.27 | 8.23 | 7.37 |
| 19 | 9.80 | 7.98 | 11.58 | <6.88 | 10.84 | 7.17 | 11.53 | 8.70 | 6.97 | 7.11 | 7.84 | 7.56 |
| 20 | 9.76 | 7.84 | 11.47 | <6.88 | 10.14 | 7.35 | 11.45 | 8.86 | 7.21 | 7.03 | 7.57 | 8.08 |
| 21 | 9.69 | 7.55 | 11.40 | <6.88 | 9.32 | <6.88 | 11.41 | 9.09 | 7.07 | 7.02 | 7.38 | 8.49 |
| 22 | 9.50 | 7.40 | 11.45 | <6.88 | 8.69 | <6.88 | 11.38 | 9.28 | 7.01 | 6.97 | 7.27 | 8.69 |
| 23 | 9.07 | 7.51 | 11.52 | 6.93 | 8.14 | <6.88 | 11.33 | 9.46 | 7.10 | 6.94 | 7.15 | 8.39 |
| 24 | 8.63 | 7.69 | 11.53 | 6.89 | 7.79 | 7.17 | 11.29 | 9.55 | 7.05 | 6.92 | 7.10 | 8.07 |
| 25 | 8.14 | 7.55 | 11.57 | <6.88 | 7.61 | 7.48 | 11.24 | 9.56 | 7.03 | 6.94 | 7.04 | 8.01 |
| 26 | 7.71 | 7.54 | 11.62 | <6.88 | 7.26 | 7.58 | 11.20 | 9.52 | 7.14 | 6.99 | <6.88 | 7.69 |
| 27 | 7.45 | 7.90 | 11.63 | <6.88 | <6.88 | 7.83 | 11.22 | 9.51 | 7.36 | 7.11 | <6.88 | 7.44 |
| 28 | 7.10 | 7.69 | 11.65 | 7.11 | <6.88 | 8.44 | 11.28 | 9.50 | 7.39 | 7.28 | <6.88 | 7.48 |
| 29 | 6.98 | 7.63 | 11.69 | 7.11 | --- | 9.13 | 11.21 | 9.24 | 7.21 | 7.22 | <6.88 | 7.52 |
| 30 | 6.90 | 7.77 | 11.73 | 7.10 | --- | 9.63 | 11.13 | 8.73 | 7.43 | 7.00 | <6.88 | 7.38 |
| 31 | 7.04 | --- | 11.79 | 7.24 | --- | 10.06 | --- | 8.24 | --- | <6.88 | <6.88 | --- |
| MAX | 9.80 | 7.98 | 11.79 | 11.92 | 10.94 | 10.06 | 11.91 | 11.10 | 7.89 | 7.42 | 9.08 | 9.51 |

< Actual value is known to be less than the value shown

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 was due to malfunction of the instrument.

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, 4.0°C, Mar. 4, 2002.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 532 microsiemens/cm, June 29; minimum recorded, 116 microsiemens/cm, Aug. 17.
WATER TEMPERATURE: Maximum, 40.0°C, July 23; minimum, 4.0°C, Mar. 4.

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 357 | 331 | 344 | 367 | 349 | 356 | 340 | 329 | 334 | 343 | 325 | 333 |
| 2 | 358 | 330 | 347 | 383 | 356 | 366 | 339 | 322 | 335 | 336 | 326 | 332 |
| 3 | 351 | 338 | 347 | 363 | 356 | 359 | 323 | 294 | 306 | 337 | 329 | 333 |
| 4 | 353 | 341 | 349 | 358 | 347 | 353 | 307 | 287 | 293 | 338 | 331 | 333 |
| 5 | 351 | 321 | 345 | 354 | 345 | 351 | 293 | 279 | 288 | 333 | 305 | 323 |
| 6 | 345 | 309 | 330 | 359 | 349 | 355 | 284 | 272 | 279 | 314 | 301 | 304 |
| 7 | 346 | 294 | 314 | 360 | 353 | 356 | 323 | 277 | 293 | 309 | 301 | 305 |
| 8 | 334 | 307 | 324 | 373 | 360 | 364 | 338 | 269 | 294 | 309 | 304 | 306 |
| 9 | 356 | 329 | 337 | 388 | 373 | 378 | 284 | 270 | 278 | 325 | 304 | 314 |
| 10 | 349 | 335 | 340 | 390 | 378 | 382 | 300 | 279 | 285 | 308 | 297 | 303 |
| 11 | 358 | 329 | 341 | 397 | 379 | 387 | 325 | 293 | 308 | 325 | 299 | 311 |
| 12 | 364 | 318 | 332 | 399 | 384 | 390 | 370 | 282 | 314 | 327 | 306 | 315 |
| 13 | 371 | 317 | 334 | 392 | 378 | 383 | 293 | 258 | 275 | 392 | 320 | 335 |
| 14 | 326 | 313 | 321 | 399 | 380 | 387 | 291 | 258 | 284 | 364 | 316 | 338 |
| 15 | 322 | 317 | 320 | 394 | 376 | 383 | 266 | 236 | 251 | 349 | 323 | 329 |
| 16 | 322 | 299 | 314 | 405 | 382 | 395 | 275 | 258 | 264 | 372 | 324 | 341 |
| 17 | 315 | 292 | 305 | 407 | 386 | 394 | 279 | 266 | 274 | 418 | 329 | 358 |
| 18 | 309 | 302 | 304 | 397 | 382 | 388 | 279 | 265 | 274 | 388 | 316 | 345 |
| 19 | 311 | 304 | 307 | 394 | 372 | 385 | 275 | 214 | 250 | 339 | 316 | 327 |
| 20 | 312 | 303 | 308 | 394 | 377 | 385 | 238 | 214 | 224 | 371 | 329 | 351 |
| 21 | 318 | 307 | 312 | 403 | 390 | 396 | 246 | 234 | 239 | 354 | 336 | 343 |
| 22 | 327 | 316 | 319 | 410 | 389 | 399 | 282 | 241 | 264 | 454 | 335 | 352 |
| 23 | 334 | 327 | 330 | 438 | 385 | 410 | 310 | 272 | 291 | 365 | 335 | 342 |
| 24 | 335 | 330 | 333 | 388 | 376 | 382 | 307 | 289 | 299 | 370 | 322 | 340 |
| 25 | 343 | 333 | 338 | 399 | 385 | 390 | 299 | 289 | 292 | 404 | 327 | 348 |
| 26 | 333 | 320 | 326 | 435 | 380 | 400 | 311 | 288 | 298 | 371 | 333 | 353 |
| 27 | 329 | 315 | 320 | 386 | 308 | 347 | 310 | 291 | 300 | 360 | 337 | 348 |
| 28 | 335 | 318 | 327 | 354 | 308 | 334 | 322 | 293 | 311 | 352 | 344 | 348 |
| 29 | 340 | 324 | 333 | 346 | 292 | 328 | 332 | 319 | 327 | 352 | 337 | 348 |
| 30 | 341 | 325 | 334 | 347 | 334 | 339 | 331 | 329 | 330 | 354 | 327 | 345 |
| 31 | 354 | 322 | 334 | --- | --- | --- | 337 | 326 | 331 | 363 | 325 | 342 |
| MONTH | 371 | 292 | 328 | 438 | 292 | 374 | 370 | 214 | 290 | 454 | 297 | 334 |

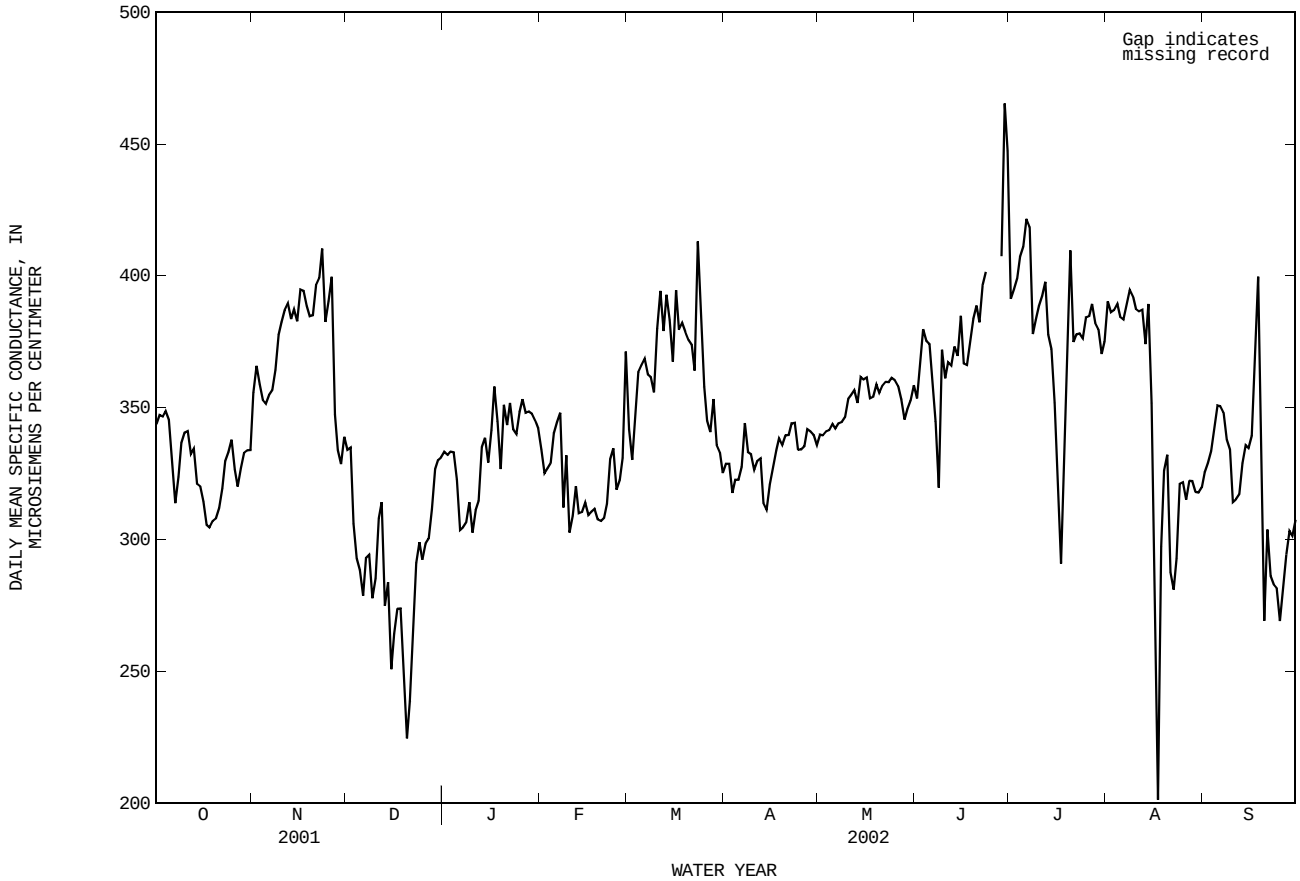
08067118 Lake Charlotte near Anahuac, TX--Continued

SPECIFIC CONDUCTANCE FROM DCP, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 349 | 320 | 334 | 376 | 328 | 342 | 335 | 321 | 329 | 346 | 335 | 340 |
| 2 | 341 | 313 | 325 | 342 | 323 | 330 | 333 | 318 | 329 | 344 | 335 | 339 |
| 3 | 333 | 321 | 327 | 356 | 337 | 346 | 332 | 309 | 318 | 346 | 336 | 341 |
| 4 | 336 | 321 | 329 | 377 | 350 | 363 | 328 | 313 | 323 | 351 | 336 | 341 |
| 5 | 353 | 329 | 340 | 378 | 355 | 366 | 336 | 313 | 323 | 347 | 341 | 344 |
| 6 | 349 | 339 | 344 | 402 | 336 | 369 | 336 | 320 | 328 | 346 | 337 | 342 |
| 7 | 373 | 313 | 348 | 404 | 344 | 362 | 349 | 334 | 344 | 351 | 337 | 344 |
| 8 | 329 | 303 | 312 | 378 | 343 | 362 | 406 | 318 | 333 | 350 | 341 | 344 |
| 9 | 383 | 303 | 332 | 386 | 339 | 356 | 342 | 327 | 332 | 349 | 343 | 346 |
| 10 | 311 | 297 | 303 | 391 | 364 | 380 | 336 | 322 | 326 | 357 | 347 | 353 |
| 11 | 315 | 303 | 309 | 414 | 382 | 394 | 335 | 323 | 330 | 393 | 349 | 355 |
| 12 | 327 | 310 | 320 | 423 | 351 | 379 | 335 | 319 | 331 | 365 | 350 | 356 |
| 13 | 315 | 308 | 310 | 423 | 362 | 393 | 330 | 302 | 314 | 364 | 342 | 352 |
| 14 | 316 | 306 | 310 | 409 | 361 | 383 | 316 | 302 | 311 | 366 | 354 | 362 |
| 15 | 317 | 308 | 314 | 379 | 354 | 367 | 326 | 312 | 321 | 365 | 358 | 361 |
| 16 | 312 | 308 | 309 | 413 | 376 | 395 | 330 | 321 | 327 | 366 | 359 | 361 |
| 17 | 316 | 308 | 311 | 399 | 364 | 380 | 341 | 330 | 334 | 366 | 343 | 353 |
| 18 | 326 | 305 | 312 | 393 | 366 | 382 | 342 | 333 | 338 | 361 | 346 | 354 |
| 19 | 312 | 305 | 308 | 391 | 367 | 379 | 339 | 331 | 336 | 363 | 354 | 359 |
| 20 | 311 | 304 | 307 | 381 | 367 | 376 | 346 | 335 | 339 | 361 | 348 | 355 |
| 21 | 312 | 302 | 308 | 389 | 344 | 374 | 342 | 337 | 340 | 372 | 354 | 358 |
| 22 | 322 | 303 | 313 | 411 | 337 | 364 | 348 | 341 | 344 | 371 | 353 | 360 |
| 23 | 346 | 316 | 330 | 445 | 378 | 413 | 355 | 331 | 344 | 365 | 351 | 360 |
| 24 | 362 | 315 | 334 | 422 | 346 | 381 | 341 | 330 | 334 | 365 | 357 | 361 |
| 25 | 368 | 313 | 319 | 396 | 333 | 358 | 341 | 327 | 334 | 365 | 353 | 360 |
| 26 | 352 | 303 | 322 | 363 | 329 | 345 | 346 | 327 | 335 | 363 | 354 | 358 |
| 27 | 346 | 313 | 331 | 372 | 329 | 341 | 348 | 338 | 342 | 361 | 341 | 353 |
| 28 | 388 | 329 | 371 | 361 | 346 | 353 | 345 | 337 | 341 | 349 | 342 | 345 |
| 29 | --- | --- | --- | 354 | 326 | 336 | 349 | 323 | 340 | 354 | 344 | 349 |
| 30 | --- | --- | --- | 346 | 322 | 333 | 341 | 326 | 336 | 357 | 349 | 353 |
| 31 | --- | --- | --- | 328 | 322 | 325 | --- | --- | --- | 361 | 355 | 358 |
| MONTH | 388 | 297 | 323 | 445 | 322 | 365 | 406 | 302 | 332 | 393 | 335 | 352 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 359 | 348 | 353 | 415 | 362 | 391 | 406 | 367 | 390 | 330 | 320 | 325 |
| 2 | 396 | 353 | 367 | 423 | 370 | 395 | 395 | 375 | 386 | 333 | 324 | 329 |
| 3 | 387 | 369 | 380 | 425 | 381 | 399 | 397 | 374 | 387 | 340 | 329 | 333 |
| 4 | 380 | 367 | 375 | 422 | 383 | 407 | 399 | 377 | 389 | 353 | 337 | 342 |
| 5 | 384 | 360 | 374 | 431 | 402 | 411 | 390 | 376 | 384 | 358 | 341 | 351 |
| 6 | 366 | 352 | 359 | 433 | 409 | 422 | 391 | 369 | 383 | 353 | 346 | 351 |
| 7 | 356 | 329 | 345 | 440 | 380 | 419 | 394 | 384 | 389 | 356 | 343 | 348 |
| 8 | 337 | 307 | 320 | 429 | 357 | 378 | 403 | 387 | 395 | 350 | 329 | 338 |
| 9 | 425 | 333 | 372 | 392 | 369 | 383 | 397 | 388 | 392 | 344 | 329 | 334 |
| 10 | 375 | 351 | 361 | 401 | 375 | 388 | 393 | 383 | 387 | 341 | 296 | 314 |
| 11 | 383 | 356 | 367 | 407 | 376 | 392 | 389 | 381 | 386 | 330 | 300 | 315 |
| 12 | 376 | 355 | 366 | 410 | 383 | 398 | 394 | 380 | 387 | 321 | 312 | 317 |
| 13 | 384 | 365 | 373 | 395 | 347 | 378 | 388 | 365 | 374 | 335 | 320 | 329 |
| 14 | 384 | 353 | 370 | 382 | 359 | 372 | 460 | 364 | 389 | 340 | 333 | 336 |
| 15 | 397 | 377 | 385 | 387 | 313 | 352 | 385 | 310 | 352 | 342 | 330 | 335 |
| 16 | 390 | 353 | 367 | 354 | 278 | 318 | 328 | 147 | 269 | 359 | 328 | 339 |
| 17 | 381 | 357 | 366 | 375 | 252 | 291 | 294 | 116 | 201 | 449 | 329 | 364 |
| 18 | 389 | 356 | 374 | 393 | 305 | 339 | 317 | 286 | 297 | 478 | 335 | 400 |
| 19 | 403 | 367 | 384 | 408 | 336 | 379 | 345 | 317 | 326 | 366 | 270 | 333 |
| 20 | 410 | 369 | 389 | 447 | 371 | 410 | 344 | 314 | 332 | 282 | 258 | 269 |
| 21 | 401 | 368 | 382 | 391 | 356 | 375 | 332 | 234 | 288 | 314 | 274 | 304 |
| 22 | 417 | 380 | 396 | 386 | 369 | 378 | 295 | 245 | 281 | 313 | 279 | 286 |
| 23 | 417 | 383 | 401 | 389 | 368 | 378 | 329 | 272 | 293 | 296 | 264 | 283 |
| 24 | --- | --- | --- | 382 | 370 | 376 | 326 | 311 | 321 | 309 | 258 | 281 |
| 25 | --- | --- | --- | 392 | 376 | 384 | 332 | 309 | 322 | 287 | 258 | 269 |
| 26 | --- | --- | --- | 393 | 378 | 385 | 319 | 311 | 315 | 291 | 271 | 282 |
| 27 | --- | --- | --- | 403 | 375 | 389 | 326 | 317 | 322 | 301 | 290 | 294 |
| 28 | 447 | 395 | 407 | 392 | 370 | 382 | 328 | 313 | 322 | 307 | 300 | 303 |
| 29 | 532 | 405 | 465 | 401 | 360 | 380 | 332 | 274 | 318 | 307 | 298 | 301 |
| 30 | 493 | 393 | 447 | 384 | 360 | 370 | 327 | 304 | 318 | 313 | 301 | 307 |
| 31 | --- | --- | --- | 385 | 363 | 375 | 327 | 312 | 320 | --- | --- | --- |
| MONTH | --- | --- | --- | 447 | 252 | 380 | 460 | 116 | 342 | 478 | 258 | 320 |

08067118 Lake Charlotte near Anahuac, TX--Continued




WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 26.2 | 20.1 | 23.1 | 24.4 | 20.1 | 22.3 | 12.8 | 11.0 | 11.6 | 10.8 | 9.4 | 10.1 |
| 2 | 28.1 | 20.2 | 24.1 | 25.4 | 22.2 | 23.7 | 13.5 | 12.8 | 13.1 | 9.5 | 8.6 | 9.2 |
| 3 | 28.0 | 22.3 | 25.0 | 25.1 | 21.8 | 23.4 | 14.0 | 13.3 | 13.6 | 9.0 | 8.2 | 8.6 |
| 4 | 25.1 | 22.8 | 24.0 | 24.6 | 21.3 | 22.7 | 16.1 | 14.0 | 14.9 | 8.5 | 7.5 | 7.9 |
| 5 | 24.1 | 22.5 | 23.3 | 22.6 | 18.8 | 20.7 | 20.2 | 15.9 | 17.7 | 9.6 | 8.2 | 8.8 |
| 6 | 23.1 | 19.7 | 21.2 | 21.0 | 17.2 | 19.0 | 21.4 | 18.5 | 20.0 | 10.2 | 9.1 | 9.7 |
| 7 | 23.6 | 17.0 | 20.1 | 22.3 | 17.4 | 19.7 | 22.0 | 20.5 | 21.2 | 10.0 | 9.0 | 9.6 |
| 8 | 21.2 | 18.8 | 20.0 | 26.4 | 19.0 | 22.1 | 21.1 | 15.7 | 19.0 | 10.3 | 8.8 | 9.6 |
| 9 | 24.1 | 20.3 | 22.3 | 25.2 | 21.3 | 23.0 | 15.7 | 12.7 | 13.8 | 12.0 | 9.8 | 10.7 |
| 10 | 27.2 | 23.8 | 25.2 | 26.6 | 19.5 | 22.7 | 15.9 | 10.9 | 13.2 | 14.0 | 11.9 | 12.9 |
| 11 | 26.4 | 24.4 | 25.3 | 26.0 | 20.1 | 23.1 | 14.6 | 11.9 | 12.8 | 13.9 | 12.8 | 13.6 |
| 12 | 25.1 | 23.2 | 24.1 | 23.5 | 20.4 | 22.1 | 18.2 | 14.6 | 17.3 | 14.6 | 12.6 | 13.4 |
| 13 | 25.0 | 21.2 | 23.0 | 23.0 | 19.6 | 21.4 | 18.6 | 15.6 | 17.8 | 13.6 | 11.2 | 12.5 |
| 14 | 22.7 | 19.8 | 21.3 | 23.2 | 19.6 | 21.0 | 15.6 | 14.3 | 14.6 | 15.1 | 12.3 | 13.5 |
| 15 | 23.9 | 21.1 | 22.3 | 22.2 | 20.1 | 21.1 | 15.5 | 14.3 | 14.9 | 15.0 | 10.6 | 12.7 |
| 16 | 23.5 | 19.2 | 21.0 | 21.5 | 20.2 | 20.9 | 17.9 | 15.5 | 16.9 | 16.1 | 10.2 | 13.3 |
| 17 | 19.3 | 17.9 | 18.7 | 20.4 | 18.7 | 19.5 | 17.8 | 16.6 | 17.3 | 17.9 | 14.6 | 16.1 |
| 18 | 19.6 | 18.2 | 18.7 | 20.7 | 17.8 | 19.3 | 16.6 | 15.9 | 16.2 | 17.6 | 15.9 | 16.5 |
| 19 | 21.7 | 18.6 | 19.6 | 22.5 | 19.0 | 20.5 | 16.3 | 14.9 | 15.8 | 17.0 | 11.0 | 15.3 |
| 20 | 20.2 | 19.5 | 19.8 | 19.7 | 15.6 | 17.9 | 14.9 | 14.2 | 14.4 | 13.5 | 9.2 | 12.0 |
| 21 | 21.0 | 20.1 | 20.6 | 17.4 | 13.6 | 15.5 | 14.5 | 13.7 | 14.0 | 16.7 | 11.3 | 13.7 |
| 22 | 23.4 | 20.8 | 21.8 | 18.0 | 14.8 | 16.4 | 15.6 | 14.2 | 14.9 | 18.8 | 14.5 | 16.2 |
| 23 | 25.5 | 21.9 | 23.6 | 22.3 | 17.3 | 20.0 | 15.6 | 14.2 | 14.9 | 21.1 | 18.2 | 19.7 |
| 24 | 27.0 | 24.3 | 25.5 | 21.9 | 19.6 | 21.0 | 14.2 | 13.0 | 13.3 | 21.3 | 15.4 | 19.4 |
| 25 | 26.0 | 20.9 | 22.9 | 19.6 | 16.4 | 17.8 | 13.1 | 12.2 | 12.6 | 16.5 | 11.3 | 13.8 |
| 26 | 20.9 | 18.7 | 19.8 | 22.9 | 17.4 | 20.2 | 12.3 | 11.3 | 11.8 | 16.2 | 8.4 | 12.4 |
| 27 | 20.6 | 16.6 | 18.5 | 22.5 | 17.1 | 20.1 | 11.9 | 11.1 | 11.5 | 19.4 | 11.6 | 15.1 |
| 28 | 18.4 | 15.3 | 17.0 | 17.1 | 12.6 | 15.1 | 13.3 | 11.8 | 12.4 | 19.4 | 16.1 | 17.7 |
| 29 | 20.2 | 14.9 | 17.1 | 12.6 | 8.2 | 9.9 | 13.6 | 12.8 | 13.1 | 21.5 | 18.9 | 20.1 |
| 30 | 20.1 | 15.9 | 17.9 | 11.9 | 8.0 | 9.9 | 13.1 | 12.0 | 12.4 | 23.1 | 20.6 | 21.6 |
| 31 | 22.8 | 17.1 | 19.8 | --- | --- | --- | 12.0 | 10.8 | 11.3 | 22.0 | 16.2 | 20.2 |
| MONTH | 28.1 | 14.9 | 21.5 | 26.6 | 8.0 | 19.7 | 22.0 | 10.8 | 14.8 | 23.1 | 7.5 | 13.7 |

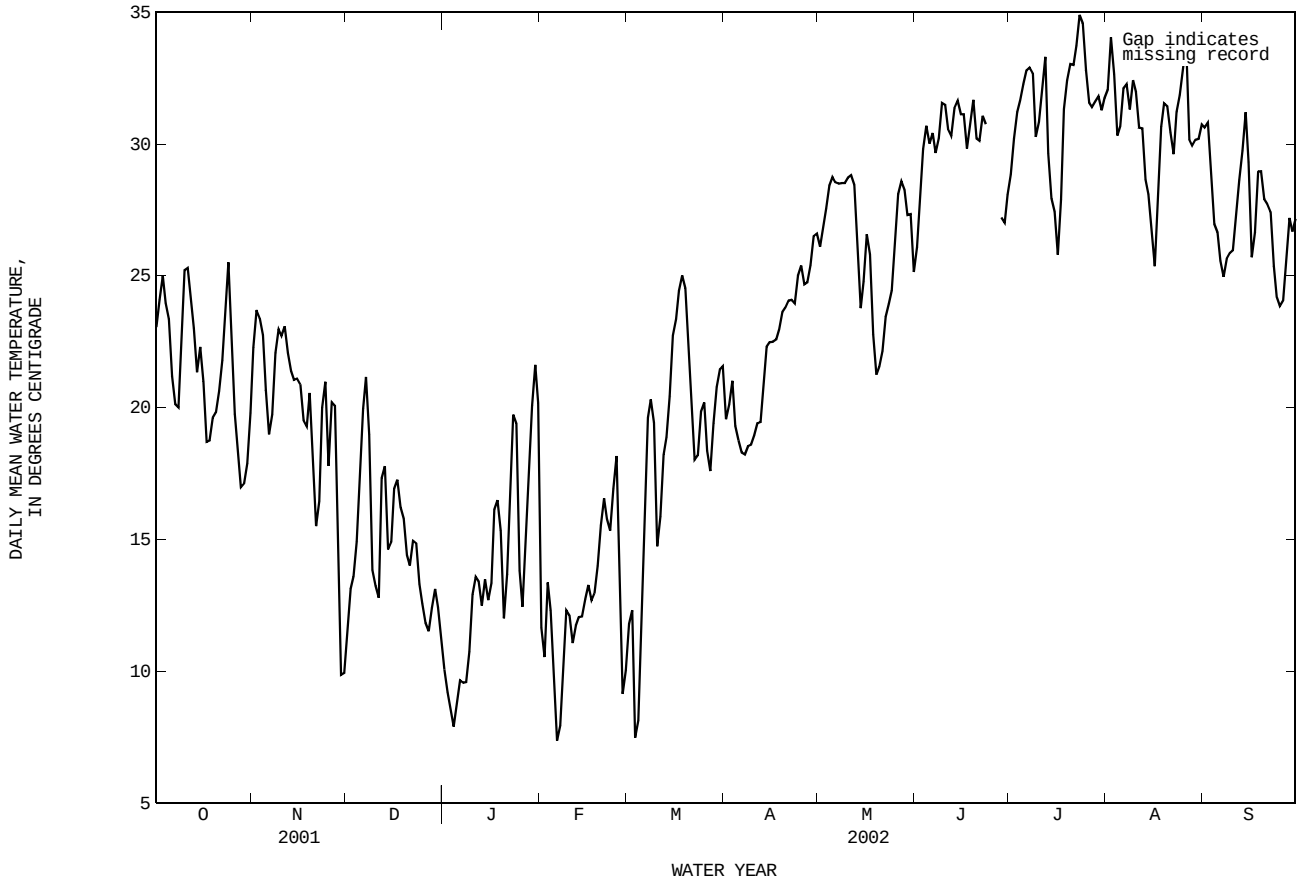
08067118 Lake Charlotte near Anahuac, TX--Continued

WATER TEMPERATURE FROM DCP, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | 16.2 | 8.7 | 11.7 | 13.0 | 10.7 | 11.8 | 21.0 | 18.8 | 19.6 | 27.1 | 25.0 | 26.1 |
| 2 | 14.5 | 6.5 | 10.5 | 13.3 | 8.2 | 12.3 | 21.9 | 19.0 | 20.1 | 27.7 | 25.9 | 26.8 |
| 3 | 15.1 | 11.6 | 13.4 | 9.0 | 5.8 | 7.5 | 21.6 | 20.4 | 21.0 | 28.6 | 26.6 | 27.5 |
| 4 | 13.6 | 11.3 | 12.3 | 12.3 | 4.0 | 8.1 | 20.4 | 18.7 | 19.3 | 29.1 | 27.8 | 28.4 |
| 5 | 11.3 | 7.9 | 9.5 | 14.5 | 8.0 | 11.4 | 19.2 | 18.4 | 18.7 | 29.6 | 28.1 | 28.7 |
| 6 | 7.9 | 6.6 | 7.4 | 19.2 | 12.4 | 15.5 | 18.9 | 17.8 | 18.3 | 29.5 | 27.6 | 28.5 |
| 7 | 10.6 | 5.2 | 7.9 | 24.5 | 16.0 | 19.6 | 18.9 | 17.6 | 18.2 | 29.6 | 27.5 | 28.5 |
| 8 | 12.7 | 8.9 | 10.5 | 21.5 | 19.0 | 20.3 | 19.1 | 17.9 | 18.5 | 29.6 | 27.6 | 28.5 |
| 9 | 14.1 | 10.3 | 12.3 | 21.0 | 14.8 | 19.4 | 19.2 | 18.1 | 18.6 | 29.6 | 27.6 | 28.5 |
| 10 | 13.8 | 10.9 | 12.1 | 19.1 | 10.7 | 14.7 | 19.2 | 18.8 | 18.9 | 30.4 | 27.7 | 28.7 |
| 11 | 12.5 | 10.1 | 11.1 | 17.4 | 14.1 | 15.9 | 21.5 | 18.7 | 19.4 | 30.4 | 27.4 | 28.8 |
| 12 | 12.6 | 11.0 | 11.7 | 20.9 | 16.1 | 18.2 | 19.8 | 19.2 | 19.4 | 30.0 | 27.0 | 28.4 |
| 13 | 12.3 | 11.8 | 12.1 | 22.9 | 14.6 | 18.9 | 23.4 | 19.4 | 20.8 | 28.8 | 24.0 | 26.4 |
| 14 | 12.5 | 11.7 | 12.1 | 23.0 | 17.6 | 20.4 | 23.3 | 21.2 | 22.3 | 25.5 | 21.9 | 23.8 |
| 15 | 14.8 | 12.1 | 12.7 | 24.9 | 20.8 | 22.7 | 23.3 | 21.3 | 22.5 | 26.5 | 23.0 | 24.8 |
| 16 | 14.5 | 12.6 | 13.3 | 24.8 | 21.9 | 23.4 | 23.1 | 22.1 | 22.5 | 28.3 | 25.0 | 26.6 |
| 17 | 13.2 | 12.2 | 12.7 | 26.4 | 22.8 | 24.4 | 23.8 | 21.9 | 22.6 | 27.5 | 24.2 | 25.8 |
| 18 | 13.3 | 12.8 | 12.9 | 27.4 | 23.3 | 25.0 | 25.0 | 21.9 | 23.0 | 24.2 | 21.6 | 22.8 |
| 19 | 15.0 | 13.2 | 14.0 | 26.1 | 23.6 | 24.5 | 24.9 | 22.4 | 23.6 | 22.4 | 19.8 | 21.2 |
| 20 | 16.9 | 14.5 | 15.5 | 23.9 | 19.9 | 22.6 | 24.6 | 22.8 | 23.8 | 22.4 | 20.6 | 21.5 |
| 21 | 18.4 | 15.2 | 16.6 | 24.1 | 17.6 | 20.3 | 24.8 | 23.3 | 24.1 | 23.4 | 21.4 | 22.1 |
| 22 | 16.9 | 14.5 | 15.8 | 24.1 | 12.6 | 18.0 | 24.5 | 22.9 | 24.1 | 24.3 | 22.8 | 23.4 |
| 23 | 17.7 | 13.5 | 15.3 | 21.8 | 13.7 | 18.2 | 25.7 | 22.8 | 23.9 | 24.6 | 23.4 | 23.9 |
| 24 | 19.4 | 14.7 | 16.9 | 22.6 | 17.5 | 19.8 | 25.8 | 23.8 | 25.0 | 25.6 | 23.5 | 24.4 |
| 25 | 19.8 | 16.8 | 18.2 | 20.9 | 19.4 | 20.2 | 25.9 | 24.9 | 25.4 | 28.2 | 24.8 | 26.3 |
| 26 | 17.9 | 8.1 | 12.4 | 20.5 | 16.1 | 18.4 | 25.4 | 23.6 | 24.7 | 29.5 | 26.9 | 28.1 |
| 27 | 13.5 | 5.3 | 9.1 | 19.4 | 15.7 | 17.6 | 25.6 | 24.0 | 24.7 | 29.7 | 27.6 | 28.6 |
| 28 | 13.2 | 6.7 | 10.0 | 20.8 | 18.4 | 19.4 | 26.6 | 24.3 | 25.4 | 28.8 | 27.6 | 28.2 |
| 29 | --- | --- | --- | 21.8 | 19.9 | 20.8 | 28.0 | 25.4 | 26.5 | 28.1 | 26.4 | 27.3 |
| 30 | --- | --- | --- | 22.6 | 20.4 | 21.4 | 27.6 | 25.8 | 26.6 | 29.1 | 26.3 | 27.3 |
| 31 | --- | --- | --- | 21.9 | 21.0 | 21.6 | --- | --- | --- | 26.4 | 23.9 | 25.1 |
| MONTH | 19.8 | 5.2 | 12.5 | 27.4 | 4.0 | 18.5 | 28.0 | 17.6 | 22.1 | 30.4 | 19.8 | 26.3 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 28.3 | 24.0 | 26.1 | 30.2 | 27.7 | 28.8 | 35.6 | 28.8 | 32.1 | 32.7 | 28.3 | 30.6 |
| 2 | 30.2 | 25.8 | 27.8 | 33.3 | 27.7 | 30.2 | 39.6 | 29.3 | 34.0 | 33.0 | 28.3 | 30.8 |
| 3 | 32.4 | 27.8 | 29.8 | 33.3 | 29.0 | 31.2 | 36.3 | 29.8 | 32.6 | 31.2 | 27.8 | 28.9 |
| 4 | 32.8 | 28.8 | 30.7 | 34.2 | 29.2 | 31.6 | 34.7 | 27.1 | 30.3 | 27.8 | 26.4 | 27.0 |
| 5 | 31.0 | 28.4 | 30.0 | 35.7 | 29.3 | 32.3 | 35.1 | 26.8 | 30.7 | 27.6 | 25.5 | 26.6 |
| 6 | 33.6 | 27.3 | 30.4 | 36.9 | 29.3 | 32.8 | 36.0 | 28.2 | 32.1 | 26.9 | 24.6 | 25.6 |
| 7 | 31.3 | 28.1 | 29.6 | 37.0 | 28.2 | 32.9 | 35.4 | 29.6 | 32.3 | 25.8 | 24.3 | 25.0 |
| 8 | 33.7 | 27.1 | 30.2 | 35.7 | 29.5 | 32.7 | 33.9 | 28.0 | 31.3 | 26.0 | 25.2 | 25.7 |
| 9 | 33.4 | 29.9 | 31.5 | 32.1 | 29.4 | 30.3 | 35.3 | 29.4 | 32.4 | 26.2 | 25.6 | 25.9 |
| 10 | 33.9 | 29.3 | 31.5 | 34.2 | 27.9 | 30.8 | 34.1 | 29.7 | 32.0 | 27.3 | 25.0 | 26.0 |
| 11 | 32.0 | 29.7 | 30.6 | 35.6 | 28.6 | 32.0 | 32.3 | 28.9 | 30.6 | 28.6 | 25.8 | 27.3 |
| 12 | 32.6 | 28.0 | 30.3 | 37.0 | 30.6 | 33.3 | 31.7 | 29.6 | 30.6 | 30.4 | 26.9 | 28.6 |
| 13 | 33.6 | 28.8 | 31.4 | 32.3 | 26.8 | 29.6 | 30.4 | 28.0 | 28.6 | 33.8 | 27.0 | 29.7 |
| 14 | 34.2 | 29.2 | 31.6 | 31.0 | 25.6 | 27.9 | 29.0 | 27.4 | 28.1 | 34.1 | 29.3 | 31.2 |
| 15 | 35.0 | 27.1 | 31.1 | 28.8 | 26.2 | 27.4 | 28.4 | 24.9 | 26.7 | 31.5 | 26.9 | 29.3 |
| 16 | 34.9 | 27.4 | 31.1 | 26.9 | 24.8 | 25.8 | 26.7 | 24.6 | 25.4 | 26.9 | 25.0 | 25.7 |
| 17 | 32.8 | 27.3 | 29.8 | 32.1 | 24.4 | 27.9 | 30.3 | 25.6 | 27.6 | 28.9 | 24.8 | 26.6 |
| 18 | 34.9 | 26.9 | 30.7 | 34.1 | 28.4 | 31.3 | 32.9 | 29.1 | 30.6 | 31.2 | 27.0 | 29.0 |
| 19 | 35.0 | 28.6 | 31.7 | 35.4 | 29.6 | 32.4 | 33.4 | 30.0 | 31.5 | 30.6 | 27.8 | 29.0 |
| 20 | 32.3 | 29.4 | 30.2 | 36.3 | 29.9 | 33.0 | 33.2 | 29.9 | 31.4 | 29.0 | 26.5 | 27.9 |
| 21 | 33.2 | 27.3 | 30.1 | 35.5 | 30.5 | 33.0 | 32.4 | 28.3 | 30.4 | 29.5 | 26.2 | 27.7 |
| 22 | 33.8 | 28.3 | 31.1 | 37.3 | 30.5 | 33.7 | 30.7 | 28.3 | 29.6 | 29.0 | 25.9 | 27.4 |
| 23 | 32.4 | 28.5 | 30.7 | 40.0 | 30.8 | 34.9 | 34.5 | 28.3 | 31.2 | 26.4 | 24.6 | 25.4 |
| 24 | --- | --- | --- | 39.1 | 31.0 | 34.6 | 33.1 | 30.4 | 31.9 | 25.5 | 22.9 | 24.2 |
| 25 | --- | --- | --- | 34.5 | 30.7 | 32.8 | 37.4 | 29.5 | 32.8 | 24.8 | 22.9 | 23.8 |
| 26 | --- | --- | --- | 33.3 | 29.8 | 31.6 | 37.8 | 31.2 | 33.8 | 25.9 | 22.4 | 24.1 |
| 27 | --- | --- | --- | 33.6 | 29.3 | 31.4 | 32.0 | 28.6 | 30.2 | 30.2 | 23.5 | 25.6 |
| 28 | 28.0 | 26.4 | 27.2 | 34.4 | 29.2 | 31.6 | 34.1 | 26.6 | 29.9 | 29.5 | 25.6 | 27.2 |
| 29 | 27.8 | 26.2 | 27.0 | 34.4 | 29.6 | 31.8 | 33.3 | 26.7 | 30.2 | 28.4 | 25.4 | 26.7 |
| 30 | 30.2 | 26.4 | 28.1 | 33.0 | 29.8 | 31.3 | 33.3 | 26.5 | 30.2 | 29.5 | 24.2 | 27.2 |
| 31 | --- | --- | --- | 35.2 | 28.6 | 31.7 | 33.5 | 27.9 | 30.7 | --- | --- | --- |
| MONTH | --- | --- | --- | 40.0 | 24.4 | 31.4 | 39.6 | 24.6 | 30.7 | 34.1 | 22.4 | 27.2 |

08067118 Lake Charlotte near Anahuac, TX--Continued



## 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 $mi^2$.

### WATER-STAGE 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), 4.12 ft, Sept. 8; minimum elevation (upstream), -0.91 ft, Mar. 10. Maximum elevation (downstream), 3.85 ft, Sept. 7; minimum elevation (downstream), -1.52 ft, Jan. 25.

ELEVATION (UPSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 1.47 | 0.73 | 1.98 | 0.90 | 2.05 | 1.04 | 3.32 | 3.10 | --- | --- | 2.63 | 1.45 |
| 2 | 1.49 | 0.84 | 1.92 | 0.56 | 2.15 | 1.03 | 3.41 | 3.09 | --- | --- | 2.66 | 0.16 |
| 3 | 1.63 | 0.79 | 1.92 | 0.58 | 1.96 | 0.93 | 3.25 | 3.04 | --- | --- | 0.16 | -0.70 |
| 4 | 1.70 | 0.78 | 1.82 | 0.28 | 1.93 | 0.88 | 3.16 | 2.95 | --- | --- | 1.19 | -0.44 |
| 5 | 1.74 | 0.63 | 1.64 | 0.35 | 2.01 | 0.98 | 3.38 | 2.79 | 1.38 | -0.07 | 1.12 | 0.09 |
| 6 | 1.67 | -0.13 | 1.96 | 0.62 | 1.88 | 0.84 | 2.81 | 2.25 | 1.04 | 0.08 | 1.27 | 0.15 |
| 7 | 1.41 | 0.53 | 1.81 | 0.30 | 1.75 | 0.65 | 2.25 | 1.88 | 1.31 | 0.58 | 1.36 | -0.04 |
| 8 | 1.82 | 0.84 | 1.71 | 0.40 | 1.56 | -0.16 | 2.03 | 1.78 | 2.06 | 1.27 | 1.93 | 0.41 |
| 9 | 2.50 | 1.23 | 1.66 | 0.34 | 0.42 | -0.19 | 2.02 | 1.61 | 2.31 | 1.61 | 1.87 | -0.33 |
| 10 | 2.66 | 1.43 | 1.52 | 0.26 | 1.07 | 0.24 | 1.83 | 1.24 | 2.25 | 1.48 | 1.42 | -0.91 |
| 11 | 3.04 | 1.71 | 1.34 | 0.41 | 2.17 | 0.24 | 1.51 | 0.55 | 1.94 | 1.54 | 1.78 | 0.67 |
| 12 | 2.53 | 1.59 | 1.42 | 0.59 | 2.41 | 1.46 | 0.79 | 0.02 | 2.18 | 1.85 | 1.65 | -0.06 |
| 13 | 3.04 | 1.65 | 1.81 | 0.64 | 2.20 | 1.46 | 1.19 | -0.12 | 2.26 | 1.94 | 1.00 | 0.21 |
| 14 | 2.00 | 1.37 | 2.05 | 0.84 | 2.51 | 1.94 | 1.33 | -0.01 | 2.34 | 2.03 | 1.45 | 0.86 |
| 15 | 2.87 | 1.46 | 2.53 | 1.24 | 3.33 | 2.43 | 1.07 | -0.06 | 2.42 | 2.18 | 1.55 | 0.99 |
| 16 | 2.55 | 1.48 | 2.62 | 1.44 | 3.52 | 2.90 | 1.34 | 0.36 | 2.30 | 2.01 | 1.37 | 0.68 |
| 17 | 2.81 | 1.82 | 2.21 | 2.07 | 3.59 | 2.77 | 1.17 | 0.20 | 2.35 | 2.12 | 1.42 | 0.69 |
| 18 | 2.73 | 1.80 | 2.33 | 2.21 | 3.09 | 2.74 | 1.06 | -0.03 | 2.81 | 2.19 | 1.69 | 0.56 |
| 19 | 2.60 | 1.71 | 2.39 | 2.06 | 3.24 | 2.60 | 1.04 | -0.58 | 2.88 | 2.41 | 2.31 | 0.63 |
| 20 | 2.39 | 1.65 | 2.06 | 1.59 | 2.72 | 2.50 | 1.15 | -0.18 | 2.56 | 1.44 | 2.11 | 0.05 |
| 21 | 2.57 | 1.73 | 1.70 | 1.58 | 2.90 | 2.66 | 1.26 | 0.49 | 1.81 | 1.00 | 0.33 | -0.78 |
| 22 | 2.47 | 1.46 | 1.77 | 1.60 | 3.18 | 2.83 | 1.42 | 0.49 | 1.23 | 0.29 | 1.31 | -0.68 |
| 23 | 2.44 | 1.37 | 2.05 | 1.77 | 3.11 | 2.73 | 1.54 | 0.32 | 1.74 | 0.35 | 1.95 | 0.17 |
| 24 | 2.41 | 1.10 | 2.14 | 1.80 | 3.00 | 2.72 | 1.54 | 0.08 | 1.73 | 0.45 | 2.04 | 0.94 |
| 25 | 1.39 | 0.67 | 1.82 | 1.28 | 3.02 | 2.79 | 0.80 | -0.39 | 1.77 | 0.62 | 1.86 | 0.83 |
| 26 | 1.76 | 0.66 | 2.18 | 1.74 | 3.15 | 2.74 | 1.40 | 0.40 | 1.11 | -0.67 | 1.40 | 0.26 |
| 27 | 1.78 | 0.83 | 2.54 | 0.75 | 3.04 | 2.72 | 1.63 | 0.86 | 0.38 | -0.72 | 2.03 | 0.99 |
| 28 | 1.57 | 0.78 | 1.08 | 0.33 | 3.32 | 2.85 | 1.85 | 0.37 | 1.45 | 0.38 | 2.25 | 1.66 |
| 29 | 1.43 | 0.83 | 1.16 | 0.52 | 3.32 | 2.88 | 1.54 | 0.37 | --- | --- | 2.40 | 1.88 |
| 30 | 1.62 | 0.64 | 1.96 | 0.84 | 3.22 | 2.92 | 1.72 | 0.78 | --- | --- | 2.86 | 1.66 |
| 31 | 1.94 | 1.13 | --- | --- | 3.28 | 3.02 | 1.71 | 0.02 | --- | --- | 2.56 | 1.63 |
| MONTH | 3.04 | -0.13 | 2.62 | 0.26 | 3.59 | -0.19 | 3.41 | -0.58 | --- | --- | 2.86 | -0.91 |

08067252 Trinity River at Wallisville, TX--Continued

ELEVATION (UPSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 2.36 | 1.47 | 3.37 | 2.68 | 2.10 | 0.81 | 1.94 | 0.86 | 1.20 | 0.46 | 1.76 | 0.59 |
| 2 | 2.71 | 1.80 | 3.06 | 2.49 | 2.12 | 0.96 | 1.84 | 0.92 | 1.11 | 0.13 | 1.88 | 0.66 |
| 3 | 2.47 | 1.77 | 2.75 | 2.17 | 2.17 | 1.35 | 1.72 | 1.03 | 1.04 | 0.04 | 2.09 | 0.69 |
| 4 | 2.41 | 1.74 | 2.50 | 1.93 | 2.00 | 1.44 | 1.56 | 0.63 | 1.46 | 0.03 | 2.17 | 1.05 |
| 5 | 2.74 | 1.88 | 2.56 | 1.92 | 1.97 | 1.23 | 1.36 | 0.24 | 1.63 | 0.14 | 2.13 | 2.01 |
| 6 | 2.96 | 1.97 | 2.53 | 2.14 | 1.79 | 1.01 | 1.00 | -0.08 | 1.30 | 0.09 | 2.32 | 2.05 |
| 7 | 3.48 | 2.76 | 2.56 | 2.25 | 1.94 | 0.82 | --- | -0.11 | 1.24 | -0.23 | 3.20 | 2.32 |
| 8 | 3.65 | 3.01 | 3.01 | 2.31 | 1.94 | 0.70 | 1.56 | --- | 1.87 | -0.05 | 4.12 | 3.20 |
| 9 | 3.47 | 2.96 | 2.85 | 1.39 | 2.14 | 0.97 | 2.15 | 0.60 | 1.72 | 0.28 | 4.09 | 2.54 |
| 10 | 3.36 | 2.88 | 2.03 | 1.26 | 2.32 | 0.82 | 1.77 | 0.51 | 2.36 | 0.61 | 3.01 | 1.97 |
| 11 | 3.40 | 3.13 | 2.65 | 1.42 | 2.54 | 1.01 | 1.83 | 0.31 | 2.30 | 1.30 | 2.73 | 1.17 |
| 12 | 3.38 | 3.10 | 2.92 | 1.89 | 2.21 | 0.86 | 1.92 | 0.36 | 2.22 | 1.53 | 2.18 | 0.65 |
| 13 | 3.28 | 2.96 | 2.03 | 0.65 | 2.10 | 0.65 | 1.56 | 0.58 | 2.33 | 2.13 | 1.99 | 0.70 |
| 14 | 3.38 | 3.06 | 2.31 | 0.36 | 1.49 | 0.49 | 1.50 | 0.37 | 2.31 | 2.10 | 2.28 | 1.11 |
| 15 | 3.63 | 3.14 | 2.60 | 1.41 | 1.78 | -0.20 | 1.17 | 0.51 | 2.93 | 2.18 | 2.10 | 0.49 |
| 16 | 3.56 | 3.05 | 2.66 | 1.62 | 1.64 | 0.72 | 1.96 | 0.89 | 3.32 | 0.94 | 1.74 | 0.50 |
| 17 | 3.33 | 3.03 | --- | --- | 1.13 | -0.15 | 1.69 | 0.70 | 2.03 | 0.64 | 2.18 | 0.54 |
| 18 | 3.17 | 2.67 | --- | --- | 1.51 | 0.41 | 1.42 | 0.59 | 1.90 | 0.64 | 2.07 | 0.88 |
| 19 | 3.17 | 2.63 | 2.00 | 0.80 | --- | --- | 1.42 | 0.45 | 1.83 | 0.62 | 2.44 | 1.25 |
| 20 | 3.20 | 2.61 | 2.33 | 1.32 | --- | --- | 1.39 | 0.40 | 1.74 | 0.51 | 2.05 | 1.57 |
| 21 | 3.24 | 2.71 | 2.49 | 1.61 | --- | --- | 1.34 | 0.34 | 1.61 | 0.31 | 2.30 | 1.52 |
| 22 | 3.09 | 2.42 | 2.58 | 2.03 | 1.82 | 0.38 | 1.40 | 0.33 | 1.58 | 0.41 | 2.07 | 1.23 |
| 23 | 2.89 | 2.20 | 2.74 | 2.03 | 1.80 | 0.59 | 1.26 | 0.26 | 1.38 | 0.36 | 2.15 | 1.33 |
| 24 | 2.98 | 2.55 | 2.49 | 1.89 | 1.84 | 0.37 | 1.42 | 0.23 | 1.31 | 0.46 | 2.45 | 1.43 |
| 25 | 2.86 | 2.40 | 2.40 | 1.75 | 2.02 | 0.33 | 1.52 | 0.36 | 1.17 | 0.51 | 2.47 | 1.16 |
| 26 | 2.83 | 2.41 | 2.39 | 1.58 | 2.07 | 0.53 | 1.48 | 0.58 | 1.51 | 0.43 | 1.89 | 0.29 |
| 27 | 3.64 | 2.51 | 2.65 | 1.58 | 2.50 | 0.84 | 1.79 | 0.59 | 1.42 | 0.20 | 1.99 | 0.78 |
| 28 | 3.27 | 2.71 | 2.80 | 1.61 | 1.71 | 0.67 | 1.66 | 0.93 | 1.01 | 0.08 | 2.29 | 1.07 |
| 29 | 2.95 | 2.40 | 2.38 | 1.52 | 2.60 | 0.56 | 1.62 | 0.91 | 0.97 | 0.23 | 2.38 | 0.73 |
| 30 | 3.50 | 2.41 | 2.11 | 1.02 | 2.17 | 1.17 | 1.41 | 0.75 | 1.34 | 0.43 | 1.94 | 0.62 |
| 31 | --- | --- | 2.06 | 0.68 | --- | --- | 1.22 | 0.68 | 1.54 | 0.51 | --- | --- |
| MONTH | 3.65 | 1.47 | --- | --- | --- | --- | --- | --- | 3.32 | -0.23 | 4.12 | 0.29 |

ELEVATION (DOWNSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 1.33 | 0.60 | 1.85 | 0.76 | 1.91 | 0.87 | 2.98 | 2.75 | --- | --- | 2.53 | 1.38 |
| 2 | 1.36 | 0.70 | 1.79 | 0.42 | 2.01 | 0.88 | 2.99 | 2.77 | 1.01 | --- | 2.58 | 0.09 |
| 3 | 1.50 | 0.67 | 1.80 | 0.45 | 1.83 | 0.76 | 2.90 | 2.67 | --- | --- | 0.09 | -0.76 |
| 4 | 1.57 | 0.64 | 1.69 | 0.15 | 1.79 | 0.72 | 2.87 | 2.64 | --- | --- | 1.11 | -0.49 |
| 5 | 1.61 | 0.50 | 1.52 | 0.22 | 1.88 | 0.82 | 3.07 | 2.51 | 1.30 | -0.13 | 1.05 | 0.02 |
| 6 | 1.53 | -0.26 | 1.84 | 0.50 | 1.74 | 0.69 | 2.52 | 1.97 | 0.97 | 0.00 | 1.18 | 0.07 |
| 7 | 1.29 | 0.39 | 1.69 | 0.18 | 1.61 | 0.50 | 2.00 | 1.53 | 1.13 | 0.44 | 1.30 | -0.11 |
| 8 | 1.70 | 0.70 | 1.59 | 0.28 | 1.43 | -0.28 | 1.76 | 1.40 | 1.88 | 1.04 | 1.85 | 0.33 |
| 9 | 2.37 | 1.08 | 1.55 | 0.23 | 0.31 | -0.30 | 1.75 | 1.19 | 2.12 | 1.25 | 1.79 | -0.37 |
| 10 | 2.53 | 1.30 | 1.40 | 0.15 | 0.97 | 0.14 | 1.58 | 1.04 | 2.02 | 1.17 | 1.36 | -0.94 |
| 11 | 2.91 | 1.55 | 1.22 | 0.30 | 2.06 | 0.13 | 1.32 | 0.40 | 1.69 | 1.21 | 1.72 | 0.59 |
| 12 | 2.38 | 1.44 | 1.31 | 0.48 | 2.29 | 1.33 | 0.66 | -0.10 | 1.90 | 1.50 | 1.58 | -0.13 |
| 13 | 2.90 | 1.50 | 1.70 | 0.52 | 1.95 | 1.28 | 1.08 | -0.25 | 2.00 | 1.57 | 0.93 | 0.13 |
| 14 | 1.81 | 1.16 | 1.94 | 0.71 | 2.24 | 1.39 | 1.21 | -0.13 | 2.03 | 1.73 | 1.39 | 0.79 |
| 15 | 2.68 | 1.30 | 2.40 | 1.11 | 3.05 | 2.11 | 0.96 | -0.17 | 2.16 | 1.87 | 1.47 | 0.91 |
| 16 | 2.35 | 1.27 | 2.50 | 0.73 | 3.26 | 2.62 | 1.24 | 0.25 | 2.08 | 1.75 | 1.29 | 0.61 |
| 17 | 2.62 | 1.65 | 1.81 | -0.09 | 3.31 | 2.56 | 1.06 | 0.09 | 2.08 | 1.80 | 1.34 | 0.62 |
| 18 | 2.55 | 1.63 | 1.36 | -0.45 | 2.80 | 2.50 | 0.96 | -0.13 | 2.57 | 1.94 | 1.60 | 0.47 |
| 19 | 2.41 | 1.53 | 1.44 | -0.55 | 2.93 | 2.31 | 0.94 | -0.66 | 2.64 | 2.07 | 2.24 | 0.55 |
| 20 | 2.21 | 1.46 | 0.08 | -1.17 | 2.47 | 2.23 | 1.04 | -0.27 | 2.32 | 1.27 | 2.02 | -0.01 |
| 21 | 2.40 | 1.56 | 0.98 | -0.07 | 2.65 | 2.35 | 1.16 | 0.37 | 1.68 | 0.84 | 0.27 | -0.83 |
| 22 | 2.33 | 1.30 | 1.61 | 0.61 | 2.93 | 2.57 | 1.30 | 0.37 | 1.11 | 0.17 | 1.25 | -0.72 |
| 23 | 2.29 | 1.22 | 2.08 | 1.30 | 2.84 | 2.46 | 1.43 | 0.20 | 1.66 | 0.25 | 1.88 | 0.10 |
| 24 | 2.26 | 0.96 | 2.13 | 0.27 | 2.71 | 2.45 | 1.41 | -0.39 | 1.65 | 0.35 | 1.95 | 0.85 |
| 25 | 1.26 | 0.54 | 1.67 | 0.40 | 2.77 | 2.54 | 0.30 | -1.52 | 1.68 | 0.51 | 1.77 | 0.73 |
| 26 | 1.64 | 0.54 | 2.14 | 1.36 | 2.86 | 2.44 | 1.19 | -0.39 | 1.00 | -0.72 | 1.31 | 0.13 |
| 27 | 1.65 | 0.71 | 1.91 | 0.63 | 2.70 | 2.41 | 1.39 | -0.11 | 0.32 | -0.79 | 1.91 | 0.85 |
| 28 | 1.45 | 0.66 | 0.96 | 0.23 | 2.94 | 2.54 | 1.66 | 0.25 | 1.39 | 0.31 | 2.06 | 1.41 |
| 29 | 1.31 | 0.71 | 1.01 | 0.36 | 2.96 | 2.58 | 1.42 | 0.24 | --- | --- | 2.22 | 1.67 |
| 30 | 1.50 | 0.52 | 1.83 | 0.67 | 2.86 | 2.65 | 1.61 | 0.65 | --- | --- | 2.69 | 1.54 |
| 31 | 1.82 | 1.00 | --- | --- | 2.94 | 2.69 | 1.59 | -0.09 | --- | --- | 2.37 | 1.36 |
| MONTH | 2.91 | -0.26 | 2.50 | -1.17 | 3.31 | -0.30 | 3.07 | -1.52 | --- | --- | 2.69 | -0.94 |

08067252 Trinity River at Wallisville, TX--Continued

ELEVATION (DOWNSTREAM), in FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 2.15 | 1.15 | 3.20 | 2.44 | 2.06 | 0.78 | 1.91 | 0.82 | 1.19 | 0.45 | 1.74 | 0.58 |
| 2 | 2.50 | 1.45 | 2.88 | 2.19 | 2.07 | 0.92 | 1.80 | 0.88 | 1.12 | 0.13 | 1.87 | 0.64 |
| 3 | 2.17 | 1.48 | 2.61 | 1.95 | 2.13 | 1.33 | 1.67 | 1.00 | 1.03 | 0.04 | 2.08 | 0.68 |
| 4 | 2.17 | 1.46 | 2.34 | 1.74 | 1.96 | 1.40 | 1.54 | 0.60 | 1.46 | 0.03 | 2.71 | 0.89 |
| 5 | 2.51 | 1.53 | 2.40 | 1.73 | 1.94 | 1.19 | 1.34 | 0.22 | 1.61 | 0.15 | 2.47 | 0.87 |
| 6 | 2.74 | 1.60 | 2.40 | 1.95 | 1.75 | 0.98 | 0.98 | -0.09 | 1.30 | 0.09 | 3.24 | 1.17 |
| 7 | 3.24 | 2.52 | 2.44 | 2.13 | 1.91 | 0.78 | --- | -0.13 | 1.24 | -0.22 | 3.85 | 2.05 |
| 8 | 3.40 | 2.72 | 2.91 | 2.19 | 1.92 | 0.67 | 1.53 | --- | 1.85 | -0.05 | 3.29 | 2.33 |
| 9 | 3.24 | 2.71 | 2.76 | 1.30 | 2.10 | 0.92 | 2.13 | 0.58 | 1.71 | 0.29 | 3.00 | 1.51 |
| 10 | 3.09 | 2.47 | 1.95 | 1.19 | 2.28 | 0.80 | 1.74 | 0.49 | 2.34 | 0.60 | 2.96 | 1.90 |
| 11 | 3.11 | 2.73 | 2.58 | 1.34 | 2.51 | 0.99 | 1.82 | 0.30 | 2.28 | 1.29 | 2.70 | 1.13 |
| 12 | 3.10 | 2.81 | 2.82 | 1.80 | 2.17 | 0.83 | 1.92 | 0.35 | 2.46 | 1.52 | 2.16 | 0.62 |
| 13 | 3.08 | 2.76 | 1.95 | 0.56 | 2.06 | 0.62 | 1.55 | 0.57 | 2.44 | 1.29 | 1.97 | 0.67 |
| 14 | 3.18 | 2.79 | 2.23 | 0.25 | 1.46 | 0.47 | 1.47 | 0.35 | 2.37 | 1.22 | 2.26 | 1.09 |
| 15 | 3.38 | 2.92 | 2.50 | 1.31 | 1.76 | -0.20 | 1.13 | 0.48 | 2.90 | 1.44 | 2.07 | 0.48 |
| 16 | 3.43 | 2.83 | 2.56 | 1.51 | 1.61 | 0.70 | 1.93 | 0.86 | 2.73 | 1.14 | 1.72 | 0.48 |
| 17 | 3.20 | 2.82 | --- | --- | 1.11 | -0.16 | 1.65 | 0.66 | 2.28 | 0.88 | 2.17 | 0.53 |
| 18 | 3.05 | 2.56 | --- | --- | 1.48 | 0.39 | 1.38 | 0.56 | 2.14 | 0.88 | 2.04 | 0.85 |
| 19 | 3.04 | 2.50 | 1.87 | 0.70 | --- | --- | 1.39 | 0.40 | 2.07 | 0.87 | 2.41 | 1.22 |
| 20 | 3.09 | 2.48 | 2.26 | 1.17 | --- | --- | 1.36 | 0.37 | 2.00 | 0.76 | 1.98 | 1.51 |
| 21 | 3.13 | 2.60 | 2.41 | 1.54 | --- | --- | 1.32 | 0.32 | 1.86 | 0.58 | 2.21 | 1.41 |
| 22 | 2.98 | 2.28 | 2.51 | 1.98 | 1.79 | 0.36 | 1.37 | 0.30 | 1.83 | 0.67 | 1.99 | 1.15 |
| 23 | 2.73 | 2.08 | 2.67 | 1.94 | 1.78 | 0.58 | 1.24 | 0.24 | 1.62 | 0.63 | 2.11 | 1.27 |
| 24 | 2.79 | 2.39 | 2.40 | 1.83 | 1.81 | 0.36 | 1.39 | 0.19 | 1.56 | 0.72 | 2.42 | 1.38 |
| 25 | 2.66 | 2.18 | 2.34 | 1.65 | 1.99 | 0.32 | 1.50 | 0.33 | 1.44 | 0.77 | 2.43 | 1.12 |
| 26 | 2.64 | 2.19 | 2.33 | 1.50 | 2.04 | 0.51 | 1.45 | 0.57 | 1.79 | 0.70 | 1.87 | 0.25 |
| 27 | 3.47 | 2.34 | 2.57 | 1.53 | 2.47 | 0.82 | 1.77 | 0.56 | 1.69 | 0.47 | 1.96 | 0.75 |
| 28 | 3.10 | 2.56 | 2.76 | 1.53 | 1.68 | 0.64 | 1.63 | 0.91 | 1.28 | 0.34 | 2.27 | 1.04 |
| 29 | 2.78 | 2.20 | 2.34 | 1.48 | 2.57 | 0.53 | 1.61 | 0.90 | 1.25 | 0.21 | 2.35 | 0.72 |
| 30 | 3.31 | 2.26 | 2.08 | 0.97 | 2.13 | 1.13 | 1.40 | 0.74 | 1.33 | 0.41 | 1.93 | 0.60 |
| 31 | --- | --- | 2.04 | 0.64 | --- | --- | 1.19 | 0.65 | 1.53 | 0.49 | --- | --- |
| MONTH | 3.47 | 1.15 | --- | --- | --- | --- | --- | --- | 2.90 | -0.22 | 3.85 | 0.25 |

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. Missing record due to malfunctions of instrumentation. 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, 109 microsiemens/cm, Apr. 5-6, 1999.
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: Maximum, 2,390 microsiemens/cm, Aug. 11, 12; minimum, 122 microsiemens/cm, Sept. 22.
WATER TEMPERATURE: Maximum, 33.5°C, Aug. 5, 26; minimum, 9.0°C, Jan. 5.
SPECIFIC CONDUCTANCE: Maximum, 9,620 microsiemens/cm, Sept. 7; minimum, 164 microsiemens/cm, Sept. 21, 22.
WATER TEMPERATURE: Maximum, 32.6°C, Aug. 2; minimum, 9.1°C, Jan. 5.

SPECIFIC CONDUCTANCE (UPSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 366 | 350 | 359 | 342 | 317 | 334 | 244 | 230 | 238 | 375 | 371 | 373 |
| 2 | 383 | 361 | 372 | 333 | 318 | 324 | 231 | 225 | 226 | 370 | 357 | 363 |
| 3 | 393 | 378 | 386 | 335 | 325 | 330 | 252 | 226 | 243 | 358 | 348 | 353 |
| 4 | 398 | 389 | 392 | 340 | 327 | 332 | 263 | 251 | 259 | 349 | 342 | 345 |
| 5 | 402 | 394 | 396 | 344 | 333 | 338 | 273 | 260 | 267 | 343 | 332 | 339 |
| 6 | 398 | 390 | 393 | 353 | 336 | 342 | 279 | 271 | 276 | 332 | 323 | 327 |
| 7 | 401 | 392 | 396 | 350 | 336 | 340 | 283 | 279 | 281 | 325 | 316 | 321 |
| 8 | 403 | 356 | 391 | 345 | 336 | 341 | 286 | 280 | 283 | 318 | 315 | 316 |
| 9 | 359 | 331 | 343 | 347 | 341 | 343 | 289 | 286 | 288 | 319 | 315 | 317 |
| 10 | 354 | 341 | 347 | 346 | 341 | 343 | 292 | 289 | 290 | 319 | 316 | 317 |
| 11 | 356 | 348 | 352 | 346 | 342 | 343 | 297 | 289 | 292 | 321 | 317 | 319 |
| 12 | 355 | 343 | 352 | 345 | 341 | 343 | 295 | 289 | 292 | 323 | 319 | 321 |
| 13 | 355 | 324 | 337 | 385 | 342 | 346 | 290 | 269 | 281 | 324 | 321 | 322 |
| 14 | 333 | 312 | 320 | 583 | 342 | 369 | 305 | 271 | 294 | 324 | 320 | 322 |
| 15 | 312 | 280 | 293 | 1370 | 344 | 588 | 325 | 305 | 315 | 326 | 322 | 324 |
| 16 | 317 | 277 | 298 | 1770 | 348 | 824 | 330 | 318 | 325 | 326 | 321 | 324 |
| 17 | 337 | 315 | 327 | 349 | 346 | 347 | 331 | 325 | 328 | 325 | 321 | 322 |
| 18 | 350 | 336 | 343 | 348 | 344 | 345 | 348 | 327 | 337 | 326 | 323 | 324 |
| 19 | 362 | 346 | 354 | 347 | 342 | 344 | 355 | 342 | 350 | 327 | 324 | 325 |
| 20 | 373 | 357 | 367 | 343 | 340 | 341 | 343 | 334 | 338 | 329 | 326 | 327 |
| 21 | 381 | 373 | 378 | 341 | 338 | 340 | 367 | 339 | 358 | 329 | 320 | 325 |
| 22 | 382 | 370 | 378 | 342 | 337 | 339 | 370 | 364 | 367 | 322 | 313 | 317 |
| 23 | 370 | 354 | 359 | 909 | 338 | 588 | 378 | 369 | 375 | 314 | 309 | 311 |
| 24 | 362 | 351 | 359 | 664 | 358 | 412 | 380 | 377 | 379 | 314 | 304 | 308 |
| 25 | 353 | 329 | 340 | 414 | 335 | 352 | 380 | 377 | 379 | 314 | 306 | 309 |
| 26 | 344 | 334 | 338 | 652 | 335 | 430 | 381 | 377 | 379 | 313 | 308 | 310 |
| 27 | 349 | 328 | 338 | 364 | 325 | 339 | 385 | 380 | 382 | 311 | 301 | 305 |
| 28 | 343 | 332 | 337 | 325 | 284 | 310 | 385 | 380 | 383 | 307 | 299 | 302 |
| 29 | 342 | 332 | 336 | 285 | 259 | 273 | 383 | 377 | 379 | 303 | 298 | 299 |
| 30 | 342 | 331 | 337 | 260 | 215 | 233 | 380 | 377 | 378 | 312 | 292 | 299 |
| 31 | 343 | 330 | 335 | --- | --- | --- | 379 | 374 | 376 | 301 | 291 | 293 |
| MONTH | 403 | 277 | 353 | 1770 | 215 | 372 | 385 | 225 | 321 | 375 | 291 | 322 |

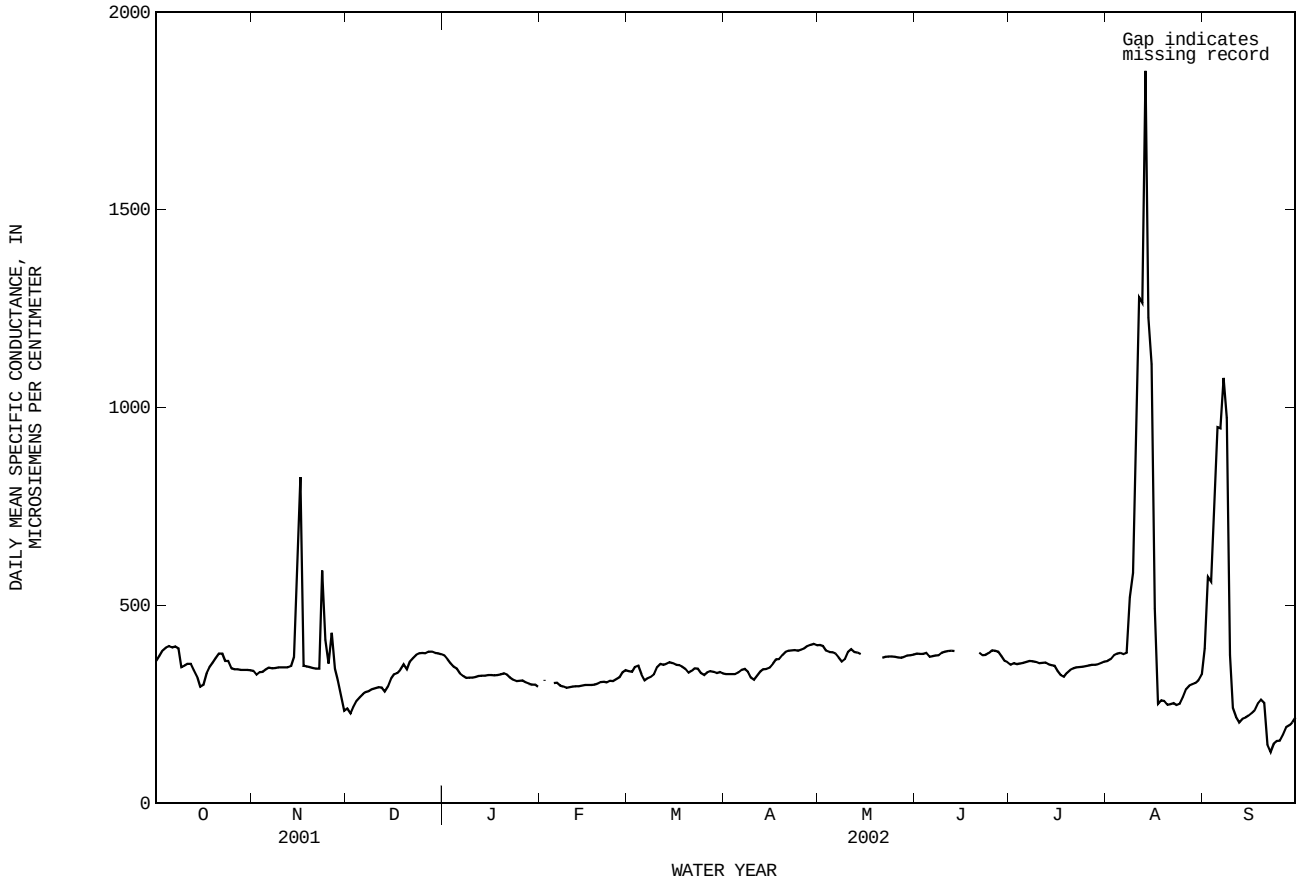
08067252 Trinity River at Wallisville, TX--Continued

SPECIFIC CONDUCTANCE (UPSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 340 | 329 | 333 | 327 | 324 | 326 | 401 | 398 | 399 |
| 2 | 312 | 309 | 310 | 334 | 329 | 332 | 328 | 326 | 326 | 401 | 392 | 397 |
| 3 | --- | --- | --- | 360 | 321 | 344 | 327 | 325 | 326 | 393 | 380 | 385 |
| 4 | --- | --- | --- | 355 | 339 | 347 | 327 | 325 | 326 | 385 | 379 | 382 |
| 5 | 307 | 302 | 304 | 339 | 312 | 325 | 334 | 327 | 330 | 382 | 379 | 381 |
| 6 | 313 | 302 | 304 | 318 | 304 | 310 | 339 | 334 | 336 | 381 | 373 | 378 |
| 7 | 302 | 294 | 297 | 321 | 311 | 315 | 340 | 338 | 339 | 375 | 360 | 368 |
| 8 | 297 | 292 | 294 | 325 | 314 | 319 | 339 | 328 | 332 | 361 | 354 | 358 |
| 9 | 292 | 290 | 291 | 335 | 320 | 325 | 329 | 310 | 317 | 372 | 357 | 364 |
| 10 | 294 | 292 | 293 | 354 | 335 | 344 | 314 | 308 | 311 | 390 | 372 | 382 |
| 11 | 295 | 294 | 294 | 374 | 344 | 352 | 328 | 314 | 322 | 393 | 383 | 389 |
| 12 | 297 | 294 | 295 | 377 | 340 | 349 | 336 | 328 | 332 | 385 | 379 | 382 |
| 13 | 296 | 295 | 296 | 359 | 347 | 352 | 340 | 336 | 338 | 382 | 377 | 380 |
| 14 | 299 | 296 | 297 | 368 | 350 | 356 | 340 | 337 | 339 | 380 | 372 | 376 |
| 15 | 299 | 297 | 298 | 370 | 348 | 353 | 345 | 339 | 342 | --- | --- | --- |
| 16 | 300 | 297 | 298 | 360 | 344 | 349 | 359 | 345 | 352 | --- | --- | --- |
| 17 | 299 | 298 | 299 | 352 | 346 | 349 | 366 | 359 | 363 | --- | --- | --- |
| 18 | 302 | 298 | 299 | 347 | 342 | 345 | 370 | 361 | 364 | --- | --- | --- |
| 19 | 305 | 300 | 302 | 344 | 336 | 339 | 380 | 369 | 374 | --- | --- | --- |
| 20 | 308 | 303 | 305 | 341 | 322 | 329 | 385 | 379 | 382 | --- | --- | --- |
| 21 | 308 | 300 | 307 | 342 | 328 | 334 | 387 | 384 | 385 | 369 | 365 | 367 |
| 22 | 308 | 300 | 305 | 345 | 338 | 340 | 387 | 385 | 386 | 371 | 368 | 370 |
| 23 | 313 | 306 | 309 | 344 | 334 | 340 | 387 | 385 | 386 | 372 | 369 | 371 |
| 24 | 312 | 306 | 308 | 336 | 324 | 328 | 387 | 383 | 385 | 372 | 369 | 371 |
| 25 | 318 | 310 | 313 | 331 | 316 | 324 | 389 | 386 | 387 | 372 | 367 | 370 |
| 26 | 332 | 313 | 318 | 340 | 322 | 330 | 395 | 388 | 391 | 370 | 366 | 368 |
| 27 | 335 | 324 | 330 | 336 | 331 | 334 | 398 | 395 | 396 | 368 | 366 | 367 |
| 28 | 338 | 333 | 335 | 333 | 328 | 331 | 403 | 398 | 399 | 373 | 366 | 370 |
| 29 | --- | --- | --- | 332 | 324 | 328 | 403 | 400 | 402 | 375 | 371 | 373 |
| 30 | --- | --- | --- | 333 | 328 | 331 | 400 | 398 | 399 | 377 | 371 | 374 |
| 31 | --- | --- | --- | 330 | 326 | 328 | --- | --- | --- | 378 | 373 | 375 |
| MONTH | --- | --- | --- | 377 | 304 | 336 | 403 | 308 | 356 | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 381 | 375 | 377 | 357 | 344 | 350 | 365 | 356 | 359 | 595 | 322 | 390 |
| 2 | 381 | 372 | 377 | 359 | 349 | 354 | 368 | 360 | 364 | 1080 | 327 | 572 |
| 3 | 380 | 374 | 377 | 352 | 349 | 351 | 379 | 367 | 374 | 1150 | 338 | 560 |
| 4 | 382 | 376 | 379 | 354 | 351 | 352 | 383 | 373 | 377 | 1100 | 363 | 793 |
| 5 | 381 | 366 | 370 | 357 | 352 | 355 | 389 | 375 | 379 | 991 | 919 | 950 |
| 6 | 378 | 366 | 371 | 359 | 355 | 357 | 381 | 373 | 376 | 998 | 922 | 947 |
| 7 | 380 | 368 | 373 | 361 | 357 | 359 | 385 | 376 | 380 | 1160 | 998 | 1070 |
| 8 | 380 | 371 | 374 | 362 | 354 | 358 | 876 | 376 | 520 | 1080 | 720 | 974 |
| 9 | 385 | 375 | 380 | 359 | 355 | 357 | 996 | 393 | 581 | 720 | 241 | 374 |
| 10 | 388 | 381 | 383 | 356 | 351 | 354 | 2090 | 392 | 976 | 244 | 238 | 240 |
| 11 | 390 | 381 | 384 | 356 | 352 | 354 | 2390 | 532 | 1280 | 242 | 198 | 217 |
| 12 | 394 | 382 | 385 | 357 | 353 | 355 | 2390 | 769 | 1260 | 211 | 198 | 204 |
| 13 | 388 | 381 | 384 | 356 | 347 | 351 | 2160 | 1540 | 1850 | 226 | 208 | 212 |
| 14 | --- | --- | --- | 350 | 346 | 348 | 1540 | 888 | 1230 | 223 | 211 | 216 |
| 15 | --- | --- | --- | 350 | 341 | 347 | 1250 | 793 | 1110 | 229 | 210 | 221 |
| 16 | --- | --- | --- | 341 | 327 | 333 | 798 | 262 | 491 | 232 | 223 | 227 |
| 17 | --- | --- | --- | 333 | 317 | 323 | 269 | 224 | 250 | 243 | 232 | 235 |
| 18 | --- | --- | --- | 324 | 313 | 319 | 274 | 239 | 259 | 261 | 243 | 252 |
| 19 | --- | --- | --- | 335 | 323 | 329 | 265 | 246 | 258 | 269 | 257 | 262 |
| 20 | --- | --- | --- | 340 | 334 | 336 | 252 | 244 | 249 | 287 | 173 | 253 |
| 21 | 383 | 376 | 380 | 343 | 339 | 340 | 253 | 243 | 250 | 173 | 125 | 148 |
| 22 | 376 | 371 | 374 | 344 | 341 | 343 | 259 | 242 | 252 | 144 | 122 | 129 |
| 23 | 377 | 372 | 375 | 345 | 342 | 344 | 255 | 241 | 247 | 154 | 144 | 150 |
| 24 | 382 | 376 | 379 | 347 | 343 | 345 | 260 | 246 | 251 | 162 | 153 | 157 |
| 25 | 398 | 381 | 386 | 348 | 345 | 346 | 274 | 251 | 267 | 163 | 150 | 157 |
| 26 | 394 | 381 | 385 | 349 | 346 | 348 | 297 | 270 | 288 | 189 | 158 | 173 |
| 27 | 406 | 378 | 382 | 351 | 347 | 349 | 301 | 291 | 297 | 196 | 186 | 191 |
| 28 | 378 | 361 | 372 | 352 | 348 | 350 | 306 | 292 | 300 | 203 | 189 | 196 |
| 29 | 368 | 356 | 359 | 352 | 349 | 351 | 310 | 299 | 303 | 209 | 201 | 204 |
| 30 | 359 | 353 | 356 | 361 | 351 | 354 | 318 | 306 | 310 | 220 | 209 | 216 |
| 31 | --- | --- | --- | 361 | 354 | 357 | 354 | 318 | 325 | --- | --- | --- |
| MONTH | --- | --- | --- | 362 | 313 | 347 | 2390 | 224 | 517 | 1160 | 122 | 363 |

08067252 Trinity River at Wallisville, TX--Continued




WATER TEMPERATURE (UPSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 24.6 | 23.3 | 23.8 | 21.1 | 20.2 | 20.6 | 13.2 | 12.8 | 13.1 | 11.9 | 11.1 | 11.5 |
| 2 | 25.3 | 23.5 | 24.1 | 21.1 | 20.7 | 20.9 | 13.2 | 12.9 | 13.0 | 10.8 | 10.2 | 10.5 |
| 3 | 25.0 | 23.7 | 24.2 | 21.3 | 20.7 | 21.1 | 14.4 | 13.0 | 13.8 | 10.2 | 9.5 | 9.8 |
| 4 | 24.4 | 24.2 | 24.3 | 21.7 | 20.8 | 21.3 | 15.7 | 14.4 | 15.0 | 9.5 | 9.1 | 9.2 |
| 5 | 24.4 | 24.0 | 24.1 | 21.7 | 20.8 | 21.3 | 17.1 | 15.7 | 16.3 | 9.2 | 9.0 | 9.1 |
| 6 | 24.0 | 23.2 | 23.7 | 21.5 | 20.9 | 21.2 | 18.3 | 17.1 | 17.7 | 9.6 | 9.1 | 9.3 |
| 7 | 23.3 | 22.6 | 23.0 | 21.6 | 20.8 | 21.2 | 18.9 | 18.3 | 18.6 | 9.6 | 9.2 | 9.4 |
| 8 | 23.2 | 22.1 | 22.8 | 23.1 | 21.0 | 21.5 | 18.9 | 17.9 | 18.5 | 9.6 | 9.2 | 9.4 |
| 9 | 22.6 | 22.0 | 22.2 | 22.1 | 21.4 | 21.8 | 17.9 | 16.7 | 17.3 | 10.3 | 9.4 | 9.8 |
| 10 | 23.7 | 22.4 | 22.8 | 22.4 | 21.5 | 21.9 | 16.7 | 15.9 | 16.4 | 11.6 | 10.3 | 10.9 |
| 11 | 23.6 | 23.2 | 23.4 | 22.6 | 21.7 | 22.1 | 15.9 | 15.2 | 15.4 | 12.2 | 11.6 | 11.9 |
| 12 | 24.4 | 23.5 | 23.9 | 22.2 | 21.8 | 22.0 | 15.5 | 15.4 | 15.4 | 12.8 | 12.2 | 12.5 |
| 13 | 24.4 | 23.0 | 23.6 | 22.1 | 21.7 | 21.9 | 16.6 | 15.3 | 15.9 | 12.8 | 12.4 | 12.6 |
| 14 | 23.0 | 21.4 | 22.2 | 21.9 | 21.6 | 21.7 | 16.1 | 15.5 | 15.7 | 12.9 | 12.6 | 12.7 |
| 15 | 21.6 | 20.8 | 21.2 | 21.8 | 21.6 | 21.7 | 15.6 | 15.4 | 15.5 | 12.8 | 12.3 | 12.7 |
| 16 | 21.5 | 20.9 | 21.2 | 21.8 | 21.3 | 21.5 | 16.2 | 15.5 | 15.8 | 13.0 | 12.3 | 12.6 |
| 17 | 21.3 | 20.8 | 21.0 | 21.4 | 20.9 | 21.1 | 16.6 | 16.2 | 16.4 | 13.3 | 12.8 | 13.0 |
| 18 | 20.8 | 20.3 | 20.6 | 21.0 | 20.6 | 20.8 | 16.3 | 15.9 | 16.1 | 13.6 | 13.1 | 13.3 |
| 19 | 20.8 | 20.3 | 20.6 | 21.8 | 20.6 | 20.9 | 15.9 | 15.2 | 15.6 | 13.9 | 13.4 | 13.7 |
| 20 | 21.3 | 20.6 | 20.9 | 21.2 | 20.0 | 20.5 | 15.2 | 14.5 | 14.8 | 13.8 | 13.4 | 13.6 |
| 21 | 21.6 | 21.1 | 21.3 | 20.1 | 19.2 | 19.6 | 14.7 | 14.3 | 14.5 | 13.7 | 13.2 | 13.5 |
| 22 | 22.0 | 21.5 | 21.8 | 19.7 | 18.9 | 19.2 | 14.9 | 14.4 | 14.6 | 13.2 | 12.7 | 12.9 |
| 23 | 23.0 | 22.0 | 22.5 | 19.8 | 18.7 | 19.2 | 14.9 | 14.4 | 14.7 | 13.8 | 12.9 | 13.3 |
| 24 | 23.6 | 22.9 | 23.2 | 19.9 | 19.2 | 19.6 | 14.4 | 13.7 | 14.0 | 14.6 | 13.8 | 14.3 |
| 25 | 23.7 | 23.2 | 23.4 | 19.9 | 18.9 | 19.2 | 13.7 | 13.2 | 13.5 | 15.5 | 14.0 | 14.7 |
| 26 | 23.2 | 22.5 | 22.9 | 20.0 | 19.2 | 19.5 | 13.2 | 12.6 | 12.9 | 14.9 | 14.2 | 14.5 |
| 27 | 22.7 | 21.8 | 22.3 | 20.2 | 18.7 | 19.6 | 12.6 | 12.3 | 12.4 | 15.4 | 14.2 | 14.8 |
| 28 | 21.8 | 21.0 | 21.4 | 18.7 | 16.8 | 18.0 | 13.0 | 12.4 | 12.7 | 15.0 | 14.2 | 14.5 |
| 29 | 21.1 | 20.5 | 20.8 | 16.8 | 13.5 | 15.5 | 13.3 | 12.9 | 13.1 | 14.7 | 14.1 | 14.3 |
| 30 | 20.6 | 20.2 | 20.4 | 13.5 | 12.6 | 12.8 | 13.1 | 12.5 | 12.8 | 15.7 | 14.7 | 15.3 |
| 31 | 20.6 | 20.0 | 20.4 | --- | --- | --- | 12.5 | 11.9 | 12.2 | 16.5 | 15.7 | 16.2 |
| MONTH | 25.3 | 20.0 | 22.4 | 23.1 | 12.6 | 20.3 | 18.9 | 11.9 | 15.0 | 16.5 | 9.0 | 12.4 |

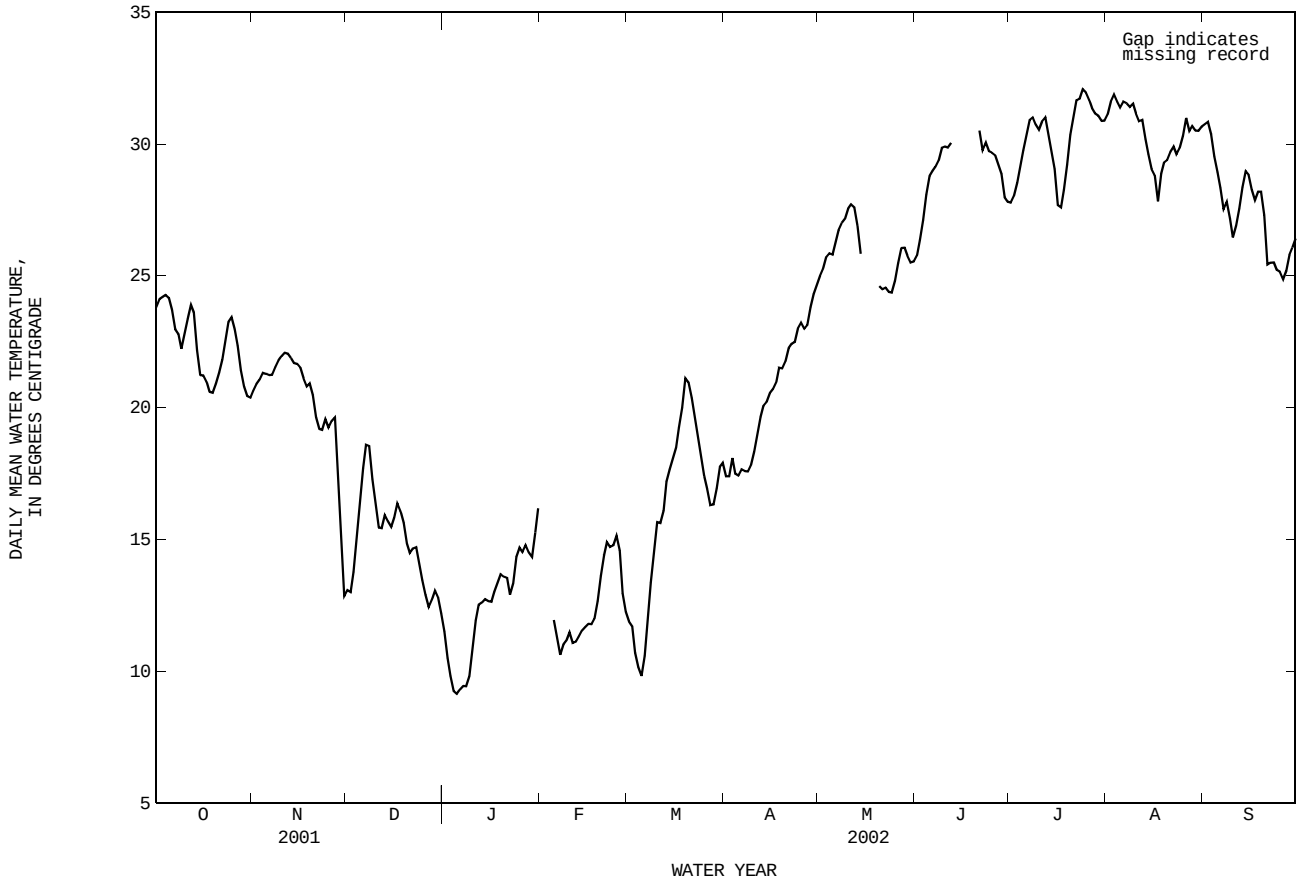
08067252 Trinity River at Wallisville, TX--Continued

WATER TEMPERATURE (UPSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 12.0 | 11.8 | 11.9 | 17.8 | 17.1 | 17.4 | 25.5 | 24.6 | 25.0 |
| 2 | --- | 14.2 | --- | 11.9 | 11.2 | 11.7 | 18.0 | 16.8 | 17.4 | 25.6 | 24.9 | 25.3 |
| 3 | --- | --- | --- | 11.2 | 10.4 | 10.7 | 18.4 | 17.7 | 18.1 | 26.1 | 25.4 | 25.7 |
| 4 | --- | 12.3 | --- | 10.7 | 9.9 | 10.1 | 17.7 | 17.1 | 17.5 | 26.0 | 25.6 | 25.8 |
| 5 | 12.3 | 11.6 | 11.9 | 10.0 | 9.4 | 9.8 | 17.8 | 17.1 | 17.4 | 26.3 | 25.4 | 25.8 |
| 6 | 11.6 | 11.0 | 11.3 | 11.3 | 10.0 | 10.6 | 18.0 | 17.4 | 17.6 | 26.6 | 25.9 | 26.2 |
| 7 | 11.0 | 10.3 | 10.6 | 12.9 | 11.1 | 11.9 | 17.8 | 17.4 | 17.6 | 27.2 | 26.4 | 26.7 |
| 8 | 11.3 | 10.8 | 11.0 | 14.3 | 12.7 | 13.4 | 17.7 | 17.4 | 17.6 | 27.3 | 26.7 | 27.0 |
| 9 | 11.5 | 10.8 | 11.1 | 15.0 | 13.7 | 14.4 | 18.2 | 17.5 | 17.8 | 27.5 | 26.8 | 27.1 |
| 10 | 11.7 | 11.2 | 11.5 | 16.5 | 15.0 | 15.7 | 18.7 | 18.0 | 18.3 | 27.9 | 27.2 | 27.5 |
| 11 | 11.3 | 10.9 | 11.1 | 15.9 | 15.4 | 15.6 | 19.5 | 18.6 | 19.0 | 28.0 | 27.5 | 27.7 |
| 12 | 11.4 | 10.9 | 11.1 | 16.8 | 15.3 | 16.1 | 20.1 | 19.3 | 19.6 | 27.8 | 27.4 | 27.6 |
| 13 | 11.6 | 11.0 | 11.3 | 17.9 | 16.5 | 17.2 | 20.4 | 19.8 | 20.1 | 27.6 | 26.4 | 26.9 |
| 14 | 11.8 | 11.3 | 11.5 | 17.9 | 17.4 | 17.6 | 20.6 | 19.9 | 20.2 | 26.4 | 25.4 | 25.8 |
| 15 | 11.9 | 11.4 | 11.7 | 18.8 | 17.7 | 18.1 | 20.7 | 20.4 | 20.5 | --- | --- | --- |
| 16 | 12.0 | 11.6 | 11.8 | 19.2 | 18.1 | 18.5 | 20.8 | 20.6 | 20.7 | --- | --- | --- |
| 17 | 12.1 | 11.5 | 11.8 | 20.2 | 18.7 | 19.3 | 21.4 | 20.6 | 20.9 | --- | --- | --- |
| 18 | 12.2 | 11.8 | 12.0 | 20.8 | 19.4 | 20.0 | 21.9 | 21.2 | 21.5 | --- | --- | --- |
| 19 | 13.2 | 12.2 | 12.7 | 21.8 | 20.6 | 21.1 | 21.8 | 21.2 | 21.5 | --- | --- | --- |
| 20 | 14.2 | 13.2 | 13.6 | 21.4 | 20.4 | 21.0 | 22.1 | 21.4 | 21.8 | 24.9 | 24.1 | 24.6 |
| 21 | 15.0 | 14.0 | 14.4 | 21.0 | 19.8 | 20.4 | 22.6 | 21.9 | 22.2 | 24.8 | 24.1 | 24.5 |
| 22 | 15.2 | 14.7 | 14.9 | 20.4 | 19.1 | 19.7 | 22.7 | 22.1 | 22.4 | 24.8 | 24.3 | 24.5 |
| 23 | 15.1 | 14.4 | 14.7 | 19.2 | 18.7 | 18.9 | 22.9 | 22.1 | 22.5 | 24.6 | 24.1 | 24.4 |
| 24 | 15.1 | 14.3 | 14.8 | 18.7 | 17.5 | 18.1 | 23.5 | 22.6 | 23.0 | 24.6 | 24.1 | 24.4 |
| 25 | 15.5 | 14.7 | 15.1 | 17.5 | 17.2 | 17.4 | 23.5 | 23.0 | 23.2 | 25.4 | 24.4 | 24.8 |
| 26 | 15.4 | 13.6 | 14.6 | 17.3 | 16.6 | 16.9 | 23.3 | 22.8 | 23.0 | 26.0 | 25.0 | 25.5 |
| 27 | 13.6 | 12.6 | 12.9 | 16.6 | 16.0 | 16.3 | 23.6 | 22.6 | 23.1 | 26.4 | 25.7 | 26.0 |
| 28 | 12.6 | 12.0 | 12.2 | 16.7 | 16.0 | 16.3 | 24.3 | 23.2 | 23.8 | 26.3 | 25.9 | 26.1 |
| 29 | --- | --- | --- | 17.4 | 16.4 | 16.9 | 24.7 | 24.0 | 24.3 | 26.0 | 25.6 | 25.8 |
| 30 | --- | --- | --- | 18.1 | 17.4 | 17.7 | 25.0 | 24.4 | 24.6 | 25.8 | 25.2 | 25.5 |
| 31 | --- | --- | --- | 18.0 | 17.8 | 17.9 | --- | --- | --- | 25.8 | 25.3 | 25.5 |
| MONTH | --- | --- | --- | 21.8 | 9.4 | 16.2 | 25.0 | 16.8 | 20.5 | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 26.3 | 25.4 | 25.8 | 28.1 | 27.5 | 27.8 | 32.2 | 30.5 | 31.1 | 31.5 | 30.3 | 30.7 |
| 2 | 26.9 | 25.9 | 26.4 | 28.7 | 27.7 | 28.0 | 32.6 | 30.9 | 31.6 | 32.1 | 30.4 | 30.8 |
| 3 | 27.9 | 26.6 | 27.1 | 29.5 | 28.1 | 28.5 | 32.7 | 31.3 | 31.9 | 31.1 | 29.9 | 30.4 |
| 4 | 28.6 | 27.4 | 28.1 | 30.0 | 28.6 | 29.1 | 32.9 | 31.2 | 31.6 | 30.0 | 29.1 | 29.5 |
| 5 | 29.2 | 28.4 | 28.8 | 30.2 | 29.3 | 29.8 | 33.5 | 30.6 | 31.4 | 29.2 | 28.6 | 28.9 |
| 6 | 29.3 | 28.7 | 29.0 | 30.8 | 30.0 | 30.3 | 32.6 | 30.9 | 31.6 | 29.0 | 27.7 | 28.3 |
| 7 | 29.5 | 29.0 | 29.1 | 32.0 | 30.3 | 30.9 | 32.5 | 31.1 | 31.5 | 27.7 | 27.3 | 27.5 |
| 8 | 30.2 | 29.0 | 29.4 | 32.2 | 30.4 | 31.0 | 31.9 | 30.7 | 31.4 | 28.3 | 27.4 | 27.8 |
| 9 | 30.5 | 29.3 | 29.8 | 31.4 | 30.5 | 30.7 | 31.8 | 31.2 | 31.5 | 28.2 | 26.1 | 27.2 |
| 10 | 30.6 | 29.6 | 29.9 | 31.3 | 30.2 | 30.5 | 31.8 | 30.2 | 31.2 | 26.9 | 26.1 | 26.4 |
| 11 | 30.1 | 29.6 | 29.9 | 32.3 | 30.4 | 30.9 | 31.4 | 30.3 | 30.9 | 27.3 | 26.5 | 26.9 |
| 12 | 30.6 | 29.7 | 30.0 | 32.1 | 30.5 | 31.0 | 31.2 | 30.3 | 30.9 | 27.9 | 27.3 | 27.5 |
| 13 | 30.4 | --- | --- | 30.8 | 30.0 | 30.4 | 30.8 | 29.9 | 30.2 | 29.3 | 27.9 | 28.4 |
| 14 | --- | --- | --- | 30.3 | 29.5 | 29.8 | 29.9 | 29.5 | 29.6 | 30.7 | 28.3 | 29.0 |
| 15 | --- | --- | --- | 29.9 | 28.0 | 29.1 | 29.5 | 28.6 | 29.1 | 29.0 | 28.6 | 28.8 |
| 16 | --- | --- | --- | 28.0 | 27.4 | 27.7 | 29.4 | 27.8 | 28.8 | 28.6 | 27.9 | 28.3 |
| 17 | --- | --- | --- | 28.6 | 27.0 | 27.6 | 28.3 | 27.5 | 27.8 | 28.5 | 27.6 | 27.9 |
| 18 | --- | --- | --- | 29.1 | 27.7 | 28.3 | 30.0 | 28.2 | 28.9 | 29.2 | 27.8 | 28.2 |
| 19 | --- | --- | --- | 29.9 | 28.5 | 29.2 | 30.7 | 29.0 | 29.3 | 28.6 | 27.9 | 28.2 |
| 20 | --- | --- | --- | 30.8 | 29.8 | 30.4 | 30.6 | 29.0 | 29.4 | 28.1 | 25.6 | 27.3 |
| 21 | 31.6 | 29.9 | 30.5 | 31.6 | 30.5 | 31.0 | 30.5 | 29.5 | 29.7 | 26.0 | 24.9 | 25.4 |
| 22 | 30.8 | 29.4 | 29.7 | 32.7 | 31.2 | 31.6 | 30.5 | 29.7 | 29.9 | 25.8 | 25.2 | 25.5 |
| 23 | 30.8 | 29.5 | 30.0 | 32.1 | 31.4 | 31.7 | 30.8 | 29.4 | 29.6 | 25.6 | 25.3 | 25.5 |
| 24 | 29.9 | 29.5 | 29.7 | 33.2 | 31.6 | 32.1 | 30.8 | 29.5 | 29.9 | 25.5 | 25.0 | 25.2 |
| 25 | 29.9 | 29.4 | 29.7 | 32.7 | 31.8 | 31.9 | 31.8 | 29.9 | 30.3 | 25.3 | 25.0 | 25.2 |
| 26 | 29.8 | 29.4 | 29.6 | 32.1 | 31.4 | 31.7 | 33.5 | 30.3 | 31.0 | 25.1 | 24.7 | 24.9 |
| 27 | 29.9 | 29.1 | 29.2 | 31.7 | 31.0 | 31.4 | 31.2 | 30.2 | 30.5 | 25.9 | 24.6 | 25.2 |
| 28 | 29.2 | 28.2 | 28.8 | 31.8 | 30.8 | 31.1 | 32.7 | 29.9 | 30.7 | 26.4 | 25.4 | 25.8 |
| 29 | 28.2 | 27.8 | 28.0 | 31.8 | 30.7 | 31.1 | 31.9 | 30.0 | 30.5 | 26.5 | 25.7 | 26.1 |
| 30 | 28.2 | 27.6 | 27.8 | 31.2 | 30.6 | 30.9 | 31.6 | 30.0 | 30.5 | 28.0 | 26.0 | 26.4 |
| 31 | --- | --- | --- | 31.8 | 30.5 | 30.9 | 31.6 | 30.2 | 30.6 | --- | --- | --- |
| MONTH | --- | --- | --- | 33.2 | 27.0 | 30.2 | 33.5 | 27.5 | 30.4 | 32.1 | 24.6 | 27.4 |

08067252 Trinity River at Wallisville, TX--Continued




SPECIFIC CONDUCTANCE (DOWNSTEAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 317 | 306 | 312 | 327 | 322 | 325 | 234 | 221 | 229 | 397 | 392 | 394 |
| 2 | 327 | 317 | 322 | 329 | 321 | 325 | 221 | 215 | 217 | 390 | 377 | 384 |
| 3 | 336 | 327 | 331 | 330 | 325 | 328 | 241 | 216 | 232 | 378 | 373 | 376 |
| 4 | 340 | 331 | 335 | 335 | 328 | 331 | 250 | 239 | 247 | 373 | 369 | 371 |
| 5 | 342 | 336 | 340 | 340 | 333 | 336 | 261 | 248 | 255 | 369 | 359 | 364 |
| 6 | 342 | 338 | 340 | 354 | 337 | 342 | 269 | 260 | 265 | 359 | 350 | 355 |
| 7 | 343 | 339 | 341 | 354 | 338 | 343 | 272 | 267 | 270 | 350 | 342 | 346 |
| 8 | 348 | 315 | 340 | 344 | 337 | 340 | 273 | 268 | 270 | 342 | 339 | 340 |
| 9 | 315 | 299 | 305 | 343 | 339 | 341 | 277 | 272 | 275 | 344 | 339 | 341 |
| 10 | 314 | 305 | 309 | 342 | 338 | 340 | 280 | 276 | 278 | 346 | 342 | 344 |
| 11 | 316 | 309 | 313 | 340 | 337 | 338 | 280 | 275 | 277 | 346 | 342 | 344 |
| 12 | 312 | 306 | 308 | 339 | 336 | 337 | 279 | 271 | 274 | 344 | 342 | 343 |
| 13 | 311 | 258 | 280 | 400 | 335 | 343 | 272 | 181 | 248 | 345 | 343 | 344 |
| 14 | 279 | 266 | 274 | 592 | 335 | 369 | 227 | 176 | 204 | 346 | 345 | 345 |
| 15 | 292 | 265 | 277 | 1360 | 335 | 631 | 241 | 215 | 227 | 347 | 336 | 340 |
| 16 | 320 | 278 | 298 | 3760 | 343 | 1650 | 266 | 236 | 253 | 339 | 335 | 337 |
| 17 | 342 | 319 | 330 | 4010 | 1880 | 3240 | 271 | 266 | 269 | 337 | 334 | 335 |
| 18 | 361 | 342 | 350 | 3010 | 2360 | 2690 | 273 | 265 | 271 | 337 | 333 | 335 |
| 19 | 403 | 361 | 380 | 2750 | 337 | 1610 | 265 | 255 | 259 | 338 | 328 | 334 |
| 20 | 388 | 382 | 384 | 339 | 332 | 335 | 260 | 254 | 257 | 331 | 327 | 330 |
| 21 | 393 | 388 | 390 | 334 | 331 | 332 | 299 | 260 | 285 | 334 | 322 | 326 |
| 22 | 395 | 381 | 392 | 547 | 331 | 386 | 321 | 299 | 309 | 325 | 312 | 317 |
| 23 | 381 | 376 | 378 | 1780 | 522 | 878 | 340 | 321 | 330 | 317 | 309 | 312 |
| 24 | 377 | 364 | 374 | 2600 | 408 | 972 | 354 | 340 | 347 | 314 | 307 | 310 |
| 25 | 364 | 345 | 358 | 408 | 327 | 344 | 377 | 354 | 365 | 314 | 308 | 310 |
| 26 | 348 | 341 | 343 | 1280 | 328 | 742 | 392 | 373 | 384 | 317 | 312 | 313 |
| 27 | 346 | 339 | 343 | 1680 | 318 | 747 | 401 | 392 | 397 | 322 | 314 | 315 |
| 28 | 342 | 337 | 340 | 318 | 277 | 303 | 400 | 395 | 398 | 324 | 297 | 304 |
| 29 | 340 | 329 | 335 | 279 | 250 | 265 | 399 | 395 | 397 | 299 | 295 | 297 |
| 30 | 337 | 329 | 331 | 250 | 208 | 224 | 399 | 397 | 398 | 301 | 291 | 296 |
| 31 | 331 | 326 | 328 | --- | --- | --- | 400 | 397 | 397 | 299 | 291 | 293 |
| MONTH | 403 | 258 | 335 | 4010 | 208 | 670 | 401 | 176 | 293 | 397 | 291 | 335 |

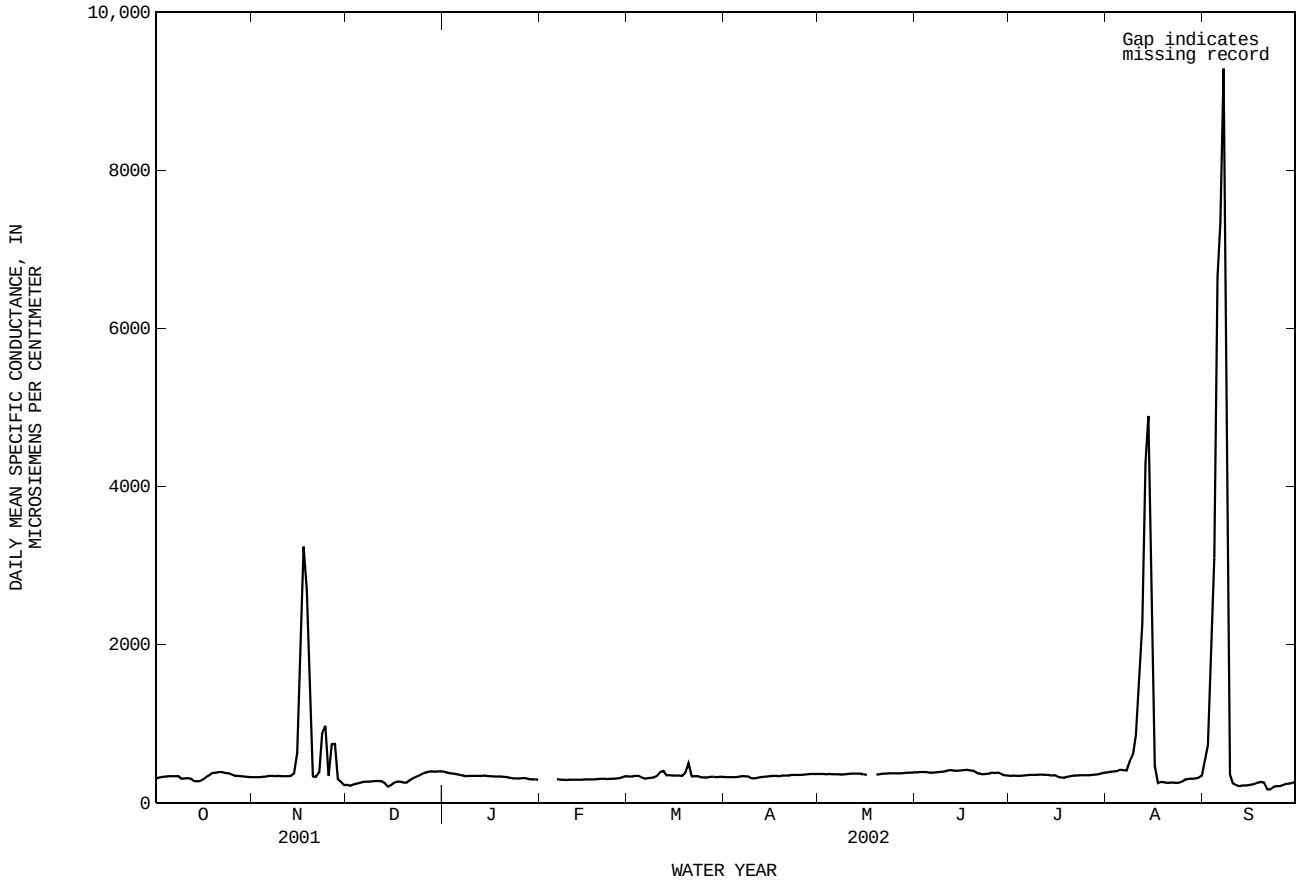
08067252 Trinity River at Wallisville, TX--Continued

SPECIFIC CONDUCTANCE (DOWNSTREAM), in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 339 | 329 | 334 | 329 | 325 | 326 | 370 | 368 | 369 |
| 2 | --- | --- | --- | 336 | 329 | 333 | 330 | 327 | 328 | 370 | 365 | 367 |
| 3 | --- | --- | --- | 354 | 333 | 342 | 329 | 327 | 327 | 366 | 363 | 364 |
| 4 | --- | --- | --- | 350 | 331 | 341 | 329 | 327 | 328 | 368 | 365 | 366 |
| 5 | --- | --- | --- | 332 | 307 | 321 | 336 | 328 | 332 | 366 | 362 | 364 |
| 6 | 304 | 299 | 301 | 310 | 302 | 305 | 342 | 336 | 339 | 367 | 360 | 362 |
| 7 | 299 | 292 | 294 | 316 | 308 | 312 | 342 | 339 | 341 | 369 | 360 | 362 |
| 8 | 296 | 292 | 294 | 321 | 313 | 317 | 340 | 329 | 333 | 362 | 358 | 360 |
| 9 | 292 | 290 | 291 | 331 | 319 | 324 | 329 | 308 | 316 | 378 | 360 | 362 |
| 10 | 293 | 291 | 292 | 366 | 331 | 342 | 312 | 307 | 309 | 370 | 363 | 366 |
| 11 | 295 | 293 | 294 | 827 | 340 | 389 | 322 | 312 | 318 | 372 | 366 | 369 |
| 12 | 296 | 294 | 295 | 827 | 340 | 402 | 328 | 322 | 325 | 373 | 367 | 370 |
| 13 | 296 | 295 | 295 | 352 | 347 | 349 | 331 | 328 | 330 | 373 | 371 | 372 |
| 14 | 297 | 295 | 296 | 352 | 348 | 350 | 335 | 331 | 333 | 376 | 369 | 372 |
| 15 | 299 | 297 | 298 | 352 | 346 | 349 | 339 | 335 | 337 | 369 | 360 | 364 |
| 16 | 299 | 298 | 298 | 351 | 344 | 347 | 344 | 339 | 342 | 360 | 354 | 356 |
| 17 | 298 | 297 | 298 | 351 | 346 | 348 | 345 | 340 | 343 | --- | --- | --- |
| 18 | 301 | 297 | 299 | 348 | 342 | 344 | 342 | 336 | 338 | --- | --- | --- |
| 19 | 304 | 300 | 301 | 4470 | 335 | 382 | 348 | 342 | 345 | 361 | 355 | 358 |
| 20 | 308 | 304 | 306 | 5360 | 324 | 501 | 352 | 346 | 348 | 368 | 356 | 363 |
| 21 | 309 | 299 | 307 | 339 | 328 | 334 | 351 | 346 | 348 | 375 | 368 | 372 |
| 22 | 305 | 298 | 302 | 341 | 338 | 339 | 367 | 349 | 353 | 375 | 370 | 372 |
| 23 | 308 | 302 | 305 | 343 | 330 | 338 | 371 | 351 | 355 | 375 | 372 | 374 |
| 24 | 306 | 303 | 305 | 330 | 319 | 325 | 359 | 350 | 353 | 377 | 373 | 375 |
| 25 | 314 | 306 | 310 | 323 | 319 | 320 | 357 | 354 | 356 | 377 | 372 | 375 |
| 26 | 319 | 311 | 314 | 328 | 319 | 323 | 360 | 355 | 357 | 375 | 372 | 373 |
| 27 | 336 | 319 | 327 | 330 | 328 | 329 | 366 | 360 | 362 | 376 | 372 | 375 |
| 28 | 340 | 333 | 337 | 332 | 327 | 330 | 367 | 365 | 366 | 402 | 375 | 379 |
| 29 | --- | --- | --- | 331 | 323 | 328 | 369 | 367 | 368 | 386 | 379 | 382 |
| 30 | --- | --- | --- | 332 | 327 | 331 | 369 | 367 | 368 | 386 | 381 | 384 |
| 31 | --- | --- | --- | 330 | 327 | 328 | --- | --- | --- | 390 | 384 | 386 |
| MONTH | --- | --- | --- | 5360 | 302 | 344 | 371 | 307 | 341 | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 392 | 385 | 387 | 351 | 333 | 341 | 393 | 385 | 387 | 1010 | 325 | 522 |
| 2 | 398 | 385 | 390 | 354 | 339 | 346 | 399 | 391 | 394 | 1640 | 331 | 730 |
| 3 | 409 | 387 | 391 | 345 | 340 | 343 | 401 | 398 | 400 | 3730 | 335 | 1700 |
| 4 | 396 | 389 | 392 | 346 | 342 | 344 | 407 | 396 | 402 | 7630 | 868 | 3100 |
| 5 | 394 | 373 | 384 | 349 | 343 | 347 | 452 | 403 | 418 | 7790 | 5830 | 6650 |
| 6 | 389 | 376 | 384 | 351 | 347 | 349 | 420 | 410 | 415 | 8540 | 6580 | 7340 |
| 7 | 389 | 384 | 386 | 354 | 351 | 353 | 430 | 367 | 413 | 9620 | 8540 | 9280 |
| 8 | 394 | 387 | 391 | 355 | 352 | 354 | 750 | 419 | 530 | 9590 | 666 | 5660 |
| 9 | 402 | 391 | 396 | 361 | 353 | 355 | 885 | 449 | 612 | 666 | 243 | 356 |
| 10 | 403 | 389 | 398 | 361 | 351 | 357 | 1770 | 492 | 860 | 253 | 242 | 247 |
| 11 | 415 | 402 | 411 | 362 | 353 | 359 | 2560 | 1050 | 1670 | 250 | 203 | 223 |
| 12 | 419 | 407 | 416 | 360 | 352 | 355 | 2910 | 1680 | 2270 | 220 | 204 | 212 |
| 13 | 411 | 403 | 407 | 363 | 346 | 353 | 5160 | 2910 | 4300 | 234 | 216 | 220 |
| 14 | 408 | 404 | 406 | 355 | 345 | 348 | 5250 | 4160 | 4890 | 230 | 217 | 223 |
| 15 | 421 | 407 | 412 | 358 | 340 | 349 | 5660 | 783 | 3430 | 237 | 211 | 227 |
| 16 | 422 | 412 | 416 | 341 | 326 | 332 | 787 | 264 | 468 | 239 | 228 | 233 |
| 17 | 424 | 414 | 419 | 333 | 315 | 322 | 265 | 221 | 250 | 251 | 237 | 242 |
| 18 | 416 | 406 | 411 | 326 | 313 | 319 | 282 | 247 | 267 | 269 | 251 | 259 |
| 19 | 408 | 403 | 407 | 339 | 325 | 332 | 268 | 246 | 262 | 273 | 262 | 267 |
| 20 | 404 | 375 | 385 | 343 | 338 | 340 | 260 | 245 | 254 | 292 | 181 | 256 |
| 21 | 376 | 363 | 372 | 347 | 341 | 345 | 260 | 245 | 256 | 181 | 164 | 171 |
| 22 | 367 | 362 | 364 | 350 | 346 | 347 | 268 | 244 | 259 | 193 | 164 | 174 |
| 23 | 368 | 363 | 366 | 352 | 348 | 350 | 264 | 243 | 253 | 210 | 193 | 203 |
| 24 | 374 | 368 | 371 | 351 | 348 | 349 | 269 | 251 | 258 | 218 | 207 | 212 |
| 25 | 422 | 371 | 382 | 354 | 348 | 351 | 281 | 258 | 275 | 218 | 205 | 212 |
| 26 | 402 | 369 | 378 | 354 | 350 | 352 | 305 | 274 | 297 | 238 | 211 | 224 |
| 27 | 489 | 368 | 382 | 359 | 350 | 354 | 309 | 298 | 304 | 248 | 238 | 242 |
| 28 | 370 | 347 | 361 | 360 | 355 | 357 | 313 | 297 | 305 | 253 | 240 | 247 |
| 29 | 382 | 347 | 353 | 371 | 357 | 362 | 317 | 303 | 309 | 260 | 250 | 253 |
| 30 | 351 | 342 | 347 | 380 | 370 | 376 | 325 | 312 | 316 | 273 | 260 | 266 |
| 31 | --- | --- | --- | 385 | 379 | 382 | 436 | 319 | 344 | --- | --- | --- |
| MONTH | 489 | 342 | 389 | 385 | 313 | 349 | 5660 | 221 | 841 | 9620 | 164 | 1340 |

08067252 Trinity River at Wallisville, TX--Continued




WATER TEMPERATURE (DOWNSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 24.4 | 23.4 | 23.8 | 21.2 | 20.3 | 20.7 | 13.4 | 12.9 | 13.2 | 12.0 | 11.3 | 11.6 |
| 2 | 24.8 | 23.6 | 24.1 | 21.2 | 20.8 | 21.0 | 13.3 | 13.0 | 13.1 | 10.9 | 10.3 | 10.6 |
| 3 | 24.7 | 23.8 | 24.2 | 21.4 | 20.8 | 21.1 | 14.5 | 13.1 | 13.9 | 10.3 | 9.6 | 9.9 |
| 4 | 24.5 | 24.2 | 24.3 | 21.8 | 20.9 | 21.4 | 15.8 | 14.5 | 15.1 | 9.6 | 9.2 | 9.4 |
| 5 | 24.4 | 24.1 | 24.2 | 21.7 | 20.9 | 21.3 | 17.2 | 15.8 | 16.4 | 9.4 | 9.1 | 9.2 |
| 6 | 24.1 | 23.2 | 23.8 | 21.5 | 21.0 | 21.3 | 18.4 | 17.2 | 17.8 | 9.7 | 9.2 | 9.4 |
| 7 | 23.4 | 22.7 | 23.1 | 21.6 | 20.9 | 21.3 | 19.0 | 18.4 | 18.7 | 9.8 | 9.4 | 9.6 |
| 8 | 23.3 | 22.2 | 22.9 | 22.0 | 21.1 | 21.5 | 19.0 | 18.0 | 18.6 | 9.8 | 9.3 | 9.6 |
| 9 | 22.6 | 22.1 | 22.3 | 22.3 | 21.4 | 21.9 | 18.0 | 16.8 | 17.4 | 10.4 | 9.6 | 9.9 |
| 10 | 23.5 | 22.5 | 22.8 | 22.4 | 21.5 | 22.0 | 16.8 | 16.0 | 16.5 | 11.6 | 10.4 | 11.0 |
| 11 | 23.6 | 23.2 | 23.4 | 22.6 | 21.8 | 22.1 | 16.0 | 15.3 | 15.5 | 12.3 | 11.6 | 12.0 |
| 12 | 24.5 | 23.5 | 23.9 | 22.3 | 21.9 | 22.1 | 15.6 | 15.4 | 15.5 | 12.9 | 12.3 | 12.6 |
| 13 | 24.5 | 23.1 | 23.7 | 22.1 | 21.8 | 21.9 | 16.6 | 15.4 | 16.0 | 12.9 | 12.5 | 12.7 |
| 14 | 23.1 | 21.5 | 22.2 | 21.9 | 21.6 | 21.8 | 16.2 | 15.6 | 15.8 | 13.0 | 12.7 | 12.8 |
| 15 | 21.7 | 20.9 | 21.3 | 21.9 | 21.6 | 21.7 | 15.7 | 15.5 | 15.6 | 12.9 | 12.5 | 12.8 |
| 16 | 21.5 | 21.0 | 21.3 | 21.8 | 21.4 | 21.6 | 16.3 | 15.5 | 15.9 | 13.1 | 12.4 | 12.8 |
| 17 | 21.3 | 20.8 | 21.0 | 21.6 | 21.2 | 21.4 | 16.7 | 16.3 | 16.4 | 13.4 | 12.9 | 13.1 |
| 18 | 20.9 | 20.4 | 20.7 | 21.6 | 21.0 | 21.3 | 16.4 | 16.0 | 16.2 | 13.7 | 13.2 | 13.4 |
| 19 | 20.9 | 20.3 | 20.6 | 21.5 | 20.6 | 21.2 | 16.0 | 15.3 | 15.7 | 14.0 | 13.5 | 13.8 |
| 20 | 21.3 | 20.7 | 21.0 | 21.2 | 20.1 | 20.5 | 15.3 | 14.6 | 14.9 | 14.0 | 13.5 | 13.7 |
| 21 | 21.7 | 21.1 | 21.4 | 20.1 | 19.3 | 19.7 | 14.8 | 14.4 | 14.6 | 13.8 | 13.3 | 13.6 |
| 22 | 22.1 | 21.5 | 21.9 | 19.5 | 19.0 | 19.2 | 14.9 | 14.5 | 14.7 | 13.3 | 12.8 | 13.0 |
| 23 | 23.0 | 22.1 | 22.6 | 19.5 | 18.4 | 19.2 | 14.9 | 14.5 | 14.8 | 13.9 | 13.0 | 13.4 |
| 24 | 23.7 | 23.0 | 23.3 | 19.9 | 19.2 | 19.5 | 14.5 | 13.8 | 14.1 | 14.8 | 13.9 | 14.4 |
| 25 | 23.7 | 23.2 | 23.5 | 19.7 | 19.0 | 19.3 | 13.8 | 13.3 | 13.6 | 14.5 | 14.2 | 14.3 |
| 26 | 23.3 | 22.6 | 23.0 | 20.0 | 19.2 | 19.7 | 13.3 | 12.7 | 13.0 | 14.5 | 14.0 | 14.1 |
| 27 | 22.8 | 21.9 | 22.4 | 20.2 | 18.8 | 19.7 | 12.7 | 12.4 | 12.5 | 14.7 | 14.2 | 14.4 |
| 28 | 21.9 | 21.1 | 21.5 | 18.8 | 16.9 | 18.1 | 13.1 | 12.5 | 12.8 | 14.8 | 14.3 | 14.5 |
| 29 | 21.2 | 20.6 | 20.9 | 16.9 | 13.6 | 15.6 | 13.4 | 13.0 | 13.2 | 14.8 | 14.2 | 14.4 |
| 30 | 20.7 | 20.3 | 20.5 | 13.6 | 12.8 | 12.9 | 13.2 | 12.6 | 12.9 | 15.8 | 14.8 | 15.3 |
| 31 | 20.7 | 20.1 | 20.4 | --- | --- | --- | 12.6 | 12.0 | 12.3 | 16.6 | 15.8 | 16.2 |
| MONTH | 24.8 | 20.1 | 22.5 | 22.6 | 12.8 | 20.4 | 19.0 | 12.0 | 15.1 | 16.6 | 9.1 | 12.5 |

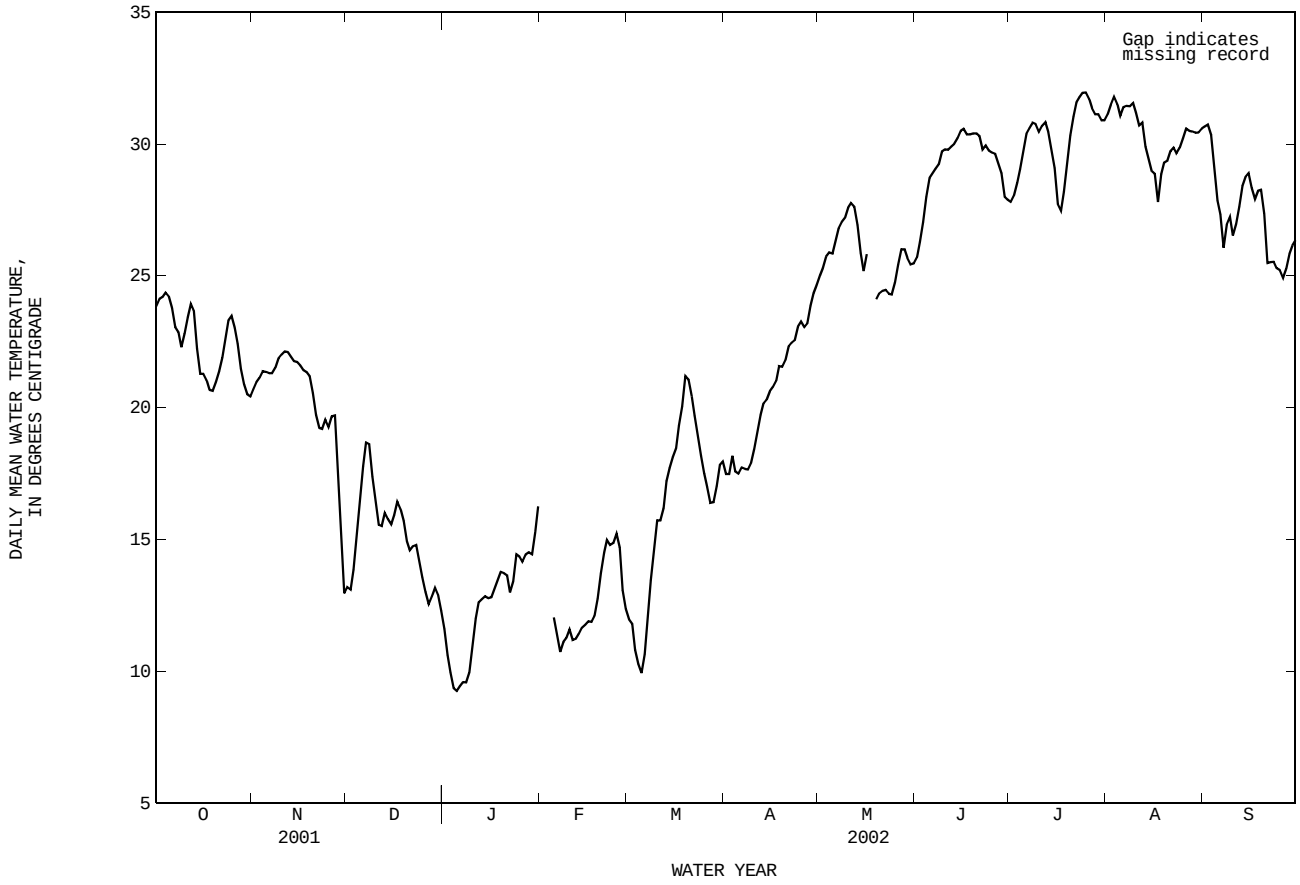
08067252 Trinity River at Wallisville, TX--Continued

WATER TEMPERATURE (DOWNSTREAM), in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| 1 | --- | --- | --- | 12.1 | 11.9 | 12.0 | 17.8 | 17.2 | 17.5 | 25.5 | 24.6 | 25.0 |
| 2 | --- | 14.3 | --- | 12.0 | 11.3 | 11.8 | 18.1 | 16.9 | 17.5 | 25.7 | 24.9 | 25.3 |
| 3 | --- | --- | --- | 11.3 | 10.6 | 10.8 | 18.5 | 17.8 | 18.2 | 26.1 | 25.4 | 25.7 |
| 4 | --- | 12.4 | --- | 10.8 | 10.0 | 10.3 | 17.8 | 17.2 | 17.6 | 26.0 | 25.6 | 25.9 |
| 5 | 12.4 | 11.7 | 12.0 | 10.2 | 9.6 | 9.9 | 17.9 | 17.1 | 17.5 | 26.3 | 25.4 | 25.8 |
| 6 | 11.7 | 11.1 | 11.4 | 11.4 | 10.1 | 10.6 | 18.0 | 17.5 | 17.7 | 26.7 | 25.9 | 26.3 |
| 7 | 11.1 | 10.4 | 10.7 | 13.2 | 11.2 | 12.1 | 17.8 | 17.5 | 17.7 | 27.2 | 26.5 | 26.8 |
| 8 | 11.4 | 10.9 | 11.1 | 14.3 | 12.8 | 13.4 | 17.8 | 17.5 | 17.6 | 27.3 | 26.8 | 27.0 |
| 9 | 11.6 | 10.9 | 11.2 | 15.0 | 13.8 | 14.5 | 18.2 | 17.6 | 17.9 | 27.6 | 26.8 | 27.2 |
| 10 | 11.8 | 11.3 | 11.6 | 16.7 | 15.0 | 15.7 | 18.8 | 18.1 | 18.4 | 27.9 | 27.3 | 27.6 |
| 11 | 11.4 | 11.0 | 11.2 | 16.2 | 15.4 | 15.7 | 19.6 | 18.7 | 19.1 | 28.1 | 27.6 | 27.8 |
| 12 | 11.5 | 11.0 | 11.2 | 16.9 | 15.4 | 16.2 | 20.2 | 19.4 | 19.7 | 27.8 | 27.4 | 27.6 |
| 13 | 11.7 | 11.1 | 11.4 | 17.9 | 16.6 | 17.2 | 20.5 | 19.9 | 20.1 | 27.6 | 26.4 | 26.9 |
| 14 | 11.9 | 11.4 | 11.6 | 18.0 | 17.5 | 17.7 | 20.6 | 20.0 | 20.3 | 26.4 | 25.4 | 25.9 |
| 15 | 12.0 | 11.5 | 11.8 | 18.6 | 17.7 | 18.1 | 20.8 | 20.4 | 20.6 | 25.4 | 24.9 | 25.2 |
| 16 | 12.1 | 11.7 | 11.9 | 18.8 | 18.2 | 18.4 | 20.9 | 20.7 | 20.8 | 26.3 | 25.3 | 25.8 |
| 17 | 12.2 | 11.6 | 11.9 | 19.9 | 18.7 | 19.3 | 21.4 | 20.7 | 21.0 | --- | --- | --- |
| 18 | 12.3 | 11.9 | 12.1 | 20.8 | 19.4 | 20.0 | 22.0 | 21.2 | 21.6 | --- | --- | --- |
| 19 | 13.3 | 12.3 | 12.8 | 22.2 | 20.6 | 21.2 | 21.9 | 21.3 | 21.5 | 24.4 | 23.8 | 24.1 |
| 20 | 14.2 | 13.3 | 13.7 | 22.2 | 20.5 | 21.1 | 22.2 | 21.4 | 21.8 | 24.8 | 23.9 | 24.3 |
| 21 | 15.0 | 14.1 | 14.5 | 20.9 | 19.9 | 20.4 | 22.6 | 21.9 | 22.3 | 24.8 | 24.0 | 24.4 |
| 22 | 15.2 | 14.8 | 15.0 | 20.1 | 19.2 | 19.7 | 22.8 | 22.2 | 22.5 | 24.8 | 24.2 | 24.5 |
| 23 | 15.2 | 14.5 | 14.8 | 19.2 | 18.8 | 19.0 | 22.9 | 22.2 | 22.6 | 24.5 | 24.1 | 24.3 |
| 24 | 15.1 | 14.4 | 14.8 | 18.8 | 17.6 | 18.2 | 23.5 | 22.7 | 23.1 | 24.5 | 24.0 | 24.3 |
| 25 | 15.5 | 14.8 | 15.2 | 17.6 | 17.3 | 17.5 | 23.5 | 23.1 | 23.3 | 25.3 | 24.3 | 24.7 |
| 26 | 15.4 | 13.7 | 14.7 | 17.4 | 16.7 | 17.0 | 23.4 | 22.8 | 23.1 | 26.0 | 24.9 | 25.4 |
| 27 | 13.7 | 12.7 | 13.1 | 16.7 | 16.1 | 16.4 | 23.6 | 22.7 | 23.2 | 26.4 | 25.7 | 26.0 |
| 28 | 12.7 | 12.1 | 12.4 | 16.7 | 16.0 | 16.4 | 24.4 | 23.3 | 23.8 | 26.2 | 25.8 | 26.0 |
| 29 | --- | --- | --- | 17.5 | 16.5 | 17.0 | 24.7 | 24.1 | 24.4 | 25.9 | 25.5 | 25.7 |
| 30 | --- | --- | --- | 18.2 | 17.5 | 17.8 | 25.0 | 24.4 | 24.7 | 25.8 | 25.1 | 25.4 |
| 31 | --- | --- | --- | 18.1 | 17.8 | 18.0 | --- | --- | --- | 25.8 | 25.2 | 25.5 |
| MONTH | --- | --- | --- | 22.2 | 9.6 | 16.2 | 25.0 | 16.9 | 20.6 | --- | --- | --- |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 26.1 | 25.3 | 25.7 | 28.1 | 27.6 | 27.8 | 32.1 | 30.5 | 31.1 | 31.0 | 30.4 | 30.7 |
| 2 | 26.8 | 25.8 | 26.3 | 28.6 | 27.7 | 28.0 | 32.6 | 31.0 | 31.5 | 31.2 | 30.4 | 30.7 |
| 3 | 27.8 | 26.5 | 27.0 | 29.2 | 28.2 | 28.5 | 32.4 | 31.4 | 31.8 | 31.2 | 29.6 | 30.3 |
| 4 | 28.6 | 27.3 | 28.0 | 29.6 | 28.6 | 29.0 | 32.1 | 31.2 | 31.5 | 29.8 | 27.6 | 29.2 |
| 5 | 29.0 | 28.3 | 28.7 | 30.2 | 29.3 | 29.7 | 31.9 | 30.5 | 31.1 | 28.0 | 27.6 | 27.8 |
| 6 | 29.1 | 28.6 | 28.9 | 30.8 | 30.0 | 30.4 | 32.1 | 30.9 | 31.4 | 27.7 | 26.4 | 27.3 |
| 7 | 29.4 | 28.9 | 29.1 | 31.0 | 30.3 | 30.6 | 32.1 | 31.2 | 31.4 | 26.4 | 25.9 | 26.1 |
| 8 | 29.7 | 28.9 | 29.2 | 31.2 | 30.5 | 30.8 | 31.9 | 30.5 | 31.4 | 28.3 | 25.9 | 26.9 |
| 9 | 30.1 | 29.2 | 29.7 | 31.0 | 30.5 | 30.8 | 31.9 | 31.1 | 31.6 | 28.3 | 26.1 | 27.2 |
| 10 | 30.5 | 29.4 | 29.8 | 30.9 | 30.2 | 30.5 | 31.9 | 30.1 | 31.2 | 26.9 | 26.1 | 26.5 |
| 11 | 30.1 | 29.5 | 29.8 | 31.2 | 30.4 | 30.7 | 31.3 | 29.9 | 30.7 | 27.4 | 26.6 | 26.9 |
| 12 | 30.5 | 29.6 | 29.9 | 31.7 | 30.5 | 30.8 | 31.6 | 30.1 | 30.8 | 28.0 | 27.4 | 27.6 |
| 13 | 31.1 | 29.5 | 30.0 | 30.8 | 30.0 | 30.5 | 30.4 | 29.5 | 29.9 | 28.9 | 27.9 | 28.4 |
| 14 | 31.1 | 29.8 | 30.2 | 30.1 | 29.6 | 29.8 | 29.7 | 29.4 | 29.5 | 29.4 | 28.3 | 28.8 |
| 15 | 31.1 | 30.2 | 30.5 | 29.9 | 28.1 | 29.1 | 29.4 | 28.6 | 29.0 | 29.1 | 28.7 | 28.9 |
| 16 | 31.2 | 30.1 | 30.6 | 28.1 | 27.4 | 27.7 | 29.4 | 27.8 | 28.9 | 28.7 | 28.0 | 28.3 |
| 17 | 30.9 | 30.2 | 30.4 | 27.9 | 27.1 | 27.5 | 28.3 | 27.6 | 27.8 | 28.5 | 27.6 | 27.9 |
| 18 | 31.3 | 30.0 | 30.4 | 28.7 | 27.7 | 28.2 | 29.5 | 28.3 | 28.8 | 28.9 | 27.8 | 28.2 |
| 19 | 31.3 | 30.1 | 30.4 | 29.9 | 28.6 | 29.2 | 30.0 | 29.1 | 29.3 | 28.6 | 28.0 | 28.3 |
| 20 | 30.7 | 30.2 | 30.4 | 30.7 | 29.9 | 30.3 | 30.1 | 29.1 | 29.4 | 28.2 | 25.6 | 27.3 |
| 21 | 30.9 | 29.9 | 30.3 | 31.5 | 30.6 | 31.0 | 30.3 | 29.5 | 29.7 | 26.0 | 25.0 | 25.5 |
| 22 | 30.6 | 29.4 | 29.8 | 32.1 | 31.2 | 31.6 | 30.2 | 29.6 | 29.9 | 25.8 | 25.3 | 25.5 |
| 23 | 30.4 | 29.4 | 29.9 | 32.1 | 31.4 | 31.8 | 30.7 | 29.4 | 29.6 | 25.6 | 25.3 | 25.5 |
| 24 | 30.0 | 29.5 | 29.7 | 32.4 | 31.6 | 31.9 | 30.7 | 29.6 | 29.8 | 25.5 | 25.1 | 25.3 |
| 25 | 29.9 | 29.4 | 29.7 | 32.2 | 31.8 | 32.0 | 30.8 | 30.0 | 30.2 | 25.3 | 25.1 | 25.2 |
| 26 | 29.9 | 29.4 | 29.6 | 31.9 | 31.5 | 31.7 | 31.0 | 30.3 | 30.6 | 25.1 | 24.8 | 24.9 |
| 27 | 29.9 | 29.1 | 29.2 | 31.6 | 31.1 | 31.4 | 31.0 | 30.2 | 30.5 | 25.9 | 24.7 | 25.3 |
| 28 | 29.2 | 28.3 | 28.9 | 31.5 | 30.9 | 31.1 | 31.3 | 30.0 | 30.5 | 26.4 | 25.4 | 25.8 |
| 29 | 28.3 | 27.8 | 28.0 | 31.6 | 30.8 | 31.1 | 31.3 | 30.0 | 30.4 | 26.5 | 25.8 | 26.1 |
| 30 | 28.2 | 27.6 | 27.9 | 31.1 | 30.6 | 30.9 | 31.0 | 30.0 | 30.4 | 27.1 | 26.1 | 26.3 |
| 31 | --- | --- | --- | 31.7 | 30.5 | 30.9 | 31.0 | 30.2 | 30.6 | --- | --- | --- |
| MONTH | 31.3 | 25.3 | 29.3 | 32.4 | 27.1 | 30.2 | 32.6 | 27.6 | 30.3 | 31.2 | 24.7 | 27.3 |

08067252 Trinity River at Wallisville, TX--Continued



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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 2002

| Station name and number | Location | Period of record | Water Year 2001 maximum | | | Period of record maximum | | |
|---|---|---|---|---|---|---|---|---|
| | | | Date | Gage height (ft) | Discharge ($ft^3/s$) | Date | Gage height (ft) | Discharge ($ft^3/s$) |
| | | 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 $mi^2$. | 1960-73✞ 1974-84ϕ 1985-2002 | 04-15-02 | 12.13 | --a/ | 09-07-62 | 26.90b/ | 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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# CALENDAR FOR WATER YEAR 2002

## 2001

### OCTOBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 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 | | | |

### NOVEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 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 | |

### DECEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 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 | | | | | |

## 2002

### JANUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 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 | | |

### FEBRUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 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 | | |

### MARCH

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 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 | | | | | | |

### APRIL

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 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 | | | | |

### MAY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 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 | |

### JUNE

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 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 | | | | | | |

### JULY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 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 | | | |

### AUGUST

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 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 |

### SEPTEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 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 | | | | | |

# CONVERSION FACTORS

| Multiply | By | To obtain |
|---|---|---|
| | ***Length*** | |
| inch (in.) | $2.54 \times 10^{1}$ | millimeter |
| | $2.54 \times 10^{-2}$ | meter |
| foot (ft) | $3.048 \times 10^{-1}$ | meter |
| mile (mi) | $1.609 \times 10^{0}$ | kilometer |
| | ***Area*** | |
| acre | $4.047 \times 10^{3}$ | square meter |
| | $4.047 \times 10^{-1}$ | square hectometer |
| | $4.047 \times 10^{-3}$ | square kilometer |
| square mile ($mi^2$) | $2.590 \times 10^{0}$ | square kilometer |
| | ***Volume*** | |
| gallon (gal) | $3.785 \times 10^{0}$ | liter |
| | $3.785 \times 10^{0}$ | cubic decimeter |
| | $3.785 \times 10^{-3}$ | cubic meter |
| million gallons (Mgal) | $3.785 \times 10^{3}$ | cubic meter |
| | $3.785 \times 10^{-3}$ | cubic hectometer |
| cubic foot ($ft^3$) | $2.832 \times 10^{1}$ | cubic decimeter |
| | $2.832 \times 10^{-2}$ | cubic meter |
| cubic-foot-per-second day [($ft^3$/s) d] | $2.447 \times 10^{3}$ | cubic meter |
| | $2.447 \times 10^{-3}$ | cubic hectometer |
| acre-foot (acre-ft) | $1.233 \times 10^{3}$ | cubic meter |
| | $1.233 \times 10^{-3}$ | cubic hectometer |
| | $1.233 \times 10^{-6}$ | cubic kilometer |
| | ***Flow*** | |
| cubic foot per second ($ft^3$/s) | $2.832 \times 10^{1}$ | liter per second |
| | $2.832 \times 10^{1}$ | cubic decimeter per second |
| | $2.832 \times 10^{-2}$ | cubic meter per second |
| gallon per minute (gal/min) | $6.309 \times 10^{-2}$ | liter per second |
| | $6.309 \times 10^{-2}$ | cubic decimeter per second |
| | $6.309 \times 10^{-5}$ | cubic meter per second |
| million gallons per day (Mgal/d) | $4.381 \times 10^{1}$ | cubic decimeter per second |
| | $4.381 \times 10^{-2}$ | cubic meter per second |
| | ***Mass*** | |
| ton (short) | $9.072 \times 10^{-1}$ | megagram or metric ton |

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$