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Water Resources Data
Texas
Water Year 2000

Volume 2. Trinity River Basin

By S.C. Gandara, W.J. Gibbons, and D.L. Barbie

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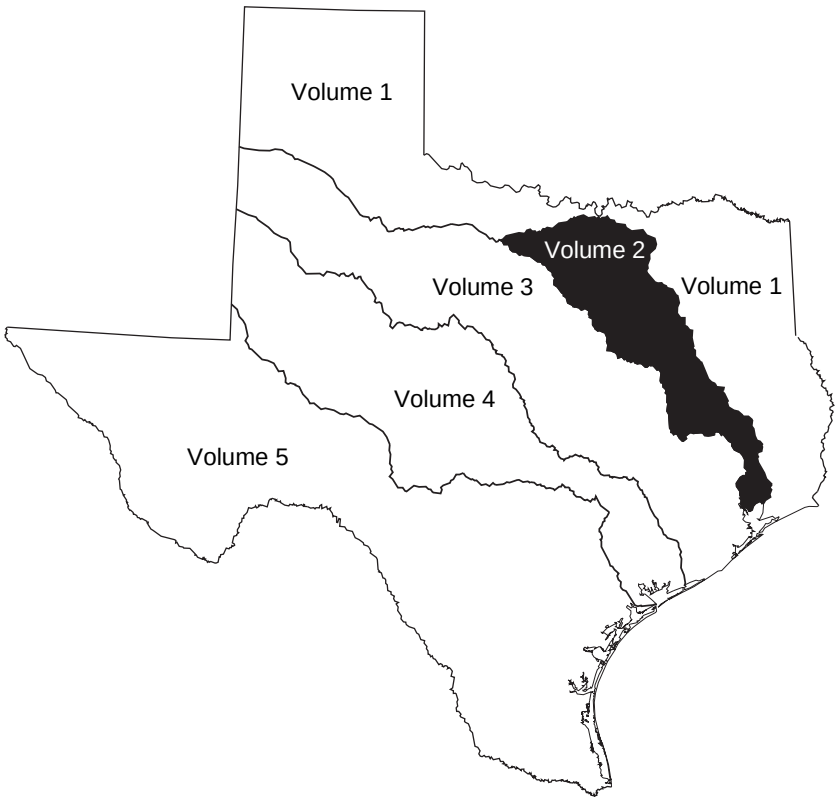

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GALE A. NORTON, Secretary

GEOLOGICAL SURVEY

Charles G. Groat, Director

For additional information write to:
District Chief, Water Resources Division
U.S. Geological Survey
8027 Exchange Dr.
Austin, Texas 78754-4733

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PREFACE

This edition of the annual hydrologic data report of Texas is one of a series of annual reports that document hydrologic data collected from the U.S. Geological Survey's collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by Federal, State, local agencies, and the private sector for developing and managing land and water resources in Texas which are contained in 6 volumes:

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

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

Mick Baldys
David S. Brown
Mike E. Dorsey
Addis M. Miller III
Jimmy G. Pond
Timothy H. Raines
Debra A. Sneck-Fahrer
Ken VanZandt

The following individuals contributed to the collection, processing and preparation of the data:

Houston Subdistrict Office

Joe Beauchamp
Cindy Billington
Jacqueline Braden
Dexter W. Brown
J. Pat Bruchmiller
Mike R. Burnich
Al Campodonico
Laura S. Coplin
Jeff W. East
Lee B. Goldstein
Jim S. Hutchison
Mark C. Kasmarek
Patrick O. Keefe
Dale Melton
Russell Neill
Edna M. Paul
S. Lyle Phipps
Cervando S. Ramirez
Horatio X. Santos
Jasper D. Schaer

Austin Field Office

Freeman L. Andrews
Jose D. Cruz
Searcy M. Jacobs
Venezia Muniz
Randy A. Samuelson
Keith R. Snider
Peter A. Spatz
Milton W. Sunvison
K. Craig Weiss

Wichita Falls Field Office

Randal S. Alexander
Benjamin J. Carr
Laith P. Hairell
Jackie D. Kelly
Michael T. Pettibon
Jeanne C. Place
Anita M. Ross

San Antonio Subdistrict Office

James M. Briers
Allan K. Clark
Eric B. Cooper
Allen L. Furlow
Jon R. Gilhousen
Ken C. Grimm
C.A. Hartmann, Jr.
Chiquita S. Lopez
Stephanie Marr
Cecilio R. Martinez
Vidal A. Mendoza
Robert T. Meyer
Michael B. Nyman
Cassi L. Otero
Diana E. Pedraza
Jorge O. Pena
Brian L. Petri
Richard N. Slattery
Douglas E. Thomas
John A. Tomlinson
Mark A. Warzecha
John F. Wojcik

Fort Worth Field Office

Patrick B. Allen
Jack D. Benton
Martin J. Danz
Judith H. Donohue
Bradley L. Mansfield
Darryl G. Pinion
Clyde T. Schoultz
Jeffrey T. Sandlin
Roger K. Trader
David V. Tudor

San Angelo Field Office

Jeremy K. Crosby
Hector H. Garza
Henry Jacques, Jr.
Lawanna M. Kiser
Rick L. Satterfield
James B. Schiller
Tim E. Teagarden

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S.C. Gandara, W.J. Gibbons, and D.L. Barbie

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2000 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 49 gaging stations; stage only at 3 gaging stations; stage and contents at 24 lakes and reservoirs; water quality at 34 gaging stations; and data for 3 partial-record stations comprised of 2 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.]

	Station number	Page
WESTERN GULF OF MEXICO BASINS		
TRINITY RIVER BASIN		
West Fork Trinity River near Jacksboro (d)	08042800	28
Lost Creek:		
Lost Creek Reservoir near Jacksboro (e)	08042820	30
Bridgeport Reservoir above Bridgeport (e)	08043000	34
Big Sandy Creek:		
Lake Amon G. Carter near Bowie (e)	08043700	36
Lyndon B. Johnson National Grasslands (c)	08043900	40
Big Sandy Creek near Chico (d)	08043950	42
West Fork Trinity River near Boyd (d)	08044500	44
Walnut Creek at Reno (d)	08044800	46
Eagle Mountain Reservoir above Fort Worth (e)	08045000	48
Lake Worth above Fort Worth (e)	08045400	50
Farmers Branch at Westworth Village, Fort Worth (e)	08045525	52
Lake Weatherford near Weatherford (e)	08045800	60
Clear Fork Trinity River near Weatherford (d)	08045850	62
Benbrook Lake near Benbrook (e)	08046500	64
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	82
Lake Arlington at Arlington (e) (c) (t)	08049200	86
West Fork Trinity River at Grand Prairie (d) (c) (t)	08049500	94
Mountain Creek near Venus (d)	08049580	104
Walnut Creek near Mansfield (d)	08049700	106
Joe Pool Lake near Duncanville (e)	08049800	108
Mountain Creek Lake near Grand Prairie (e)	08050050	110
Mountain Creek at Grand Prairie (d)	08050100	112
Elm Fork Trinity River at Gainesville (d)	08050400	114
Isle du Bois Creek:		
Jordan Creek:		
Timber Creek near Collinsville (d)	08050800	116
Range Creek near Collinsville (d)	08050840	118
Ray Roberts Lake near Pilot Point (e)	08051100	120
Clear Creek near Sanger (d) (c) (t) (s)	08051500	122
Little Elm Creek near Aubrey (d)	08052700	126
Lewisville Lake near Lewisville (e)	08052800	128
Elm Fork Trinity River near Lewisville (d)	08053000	130
Denton Creek near Justin (d) (c) (t)	08053500	132
Elizabeth Creek at State Highway 114 near Roanoke (c) (t)	08053800	136
Grapevine Lake near Grapevine (e) (c) (t) (b)	08054500	138
Denton Creek near Grapevine (c) (t)	08055000	154
Elm Fork Trinity River near Carrollton (d)	08055500	156
Elm Fork Trinity River at Frasier Dam, Dallas (e)	08056000	158
Trinity River at Dallas (d)	08057000	164
Trinity River at Cedar Crest Boulevard, Dallas (c) (t)	08057055	166
White Rock Creek at Greenville Avenue, Dallas (d) (c) (t)	08057200	172
Trinity River below Dallas (c) (t) (b) (s)	08057410	178
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	210
Sister Grove Creek near Blue Ridge (d)	08059400	212
Lavon Lake near Lavon (e)	08060500	214
Rowlett Creek near Sachse (d)	08061540	216

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
TRINITY RIVER BASIN--Continued		
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East Fork Trinity River near Forney (d)	08061750	220
East Fork Trinity River near Crandall (d) (c) (t)	08062000	222
Trinity River near Rosser (d) (c) (t)	08062500	232
Trinity River at Trinidad (d) (c) (t)	08062700	242
Cedar Creek:		
Muddy Cedar Creek:		
New Terrell City Lake near Terrell (e)	08062730	250
Cedar Creek Reservoir near Trinidad (e)	08063010	254
Richland Creek near Irene (c) (t)	08063045	256
Navarro Mills Lake near Dawson (e) (c) (t) (b)	08063050	258
Richland Creek near Dawson (d) (c) (t)	08063100	272
Chambers Creek:		
Waxahachie Creek:		
Lake Waxahachie near Waxahachie (e)	08063600	276
Waxahachie Creek near Waxahachie (c) (t)	08063685	280
Bardwell Lake near Ennis (e) (c) (t) (b)	08063700	282
Waxahachie Creek near Bardwell (d) (c) (t)	08063800	296
Chambers Creek near Rice (d) (c) (t)	08064100	300
Post Oak Creek:		
Halbert Lake near Corsicana (e)	08064510	308
Richland-Chambers Reservoir near Kerens (e)	08064550	312
Tehuacana Creek near Streetman (d) (c) (t)	08064700	316
Trinity River near Oakwood (d)	08065000	320
Upper Keechi Creek near Oakwood (d)	08065200	322
Big Elkhart Creek:		
Little Elkhart Creek:		
Houston County Lake near Crockett (e)	08065330	324
Trinity River near Crockett (d) (c) (t)	08065350	328
Bedias Creek near Madisonville (d)	08065800	338
Kickapoo Creek near Onalaska (d)	08066170	340
Livingston Reservoir near Goodrich (e) (c) (t)	08066190	342
Long King Creek at Livingston (d)	08066200	352
Trinity River near Goodrich (d)	08066250	354
Menard Creek near Rye (d)	08066300	356
Trinity River at Romayor (d)	08066500	358
Trinity River at Liberty (d)	08067000	360
CWA Canal near Dayton (d)	08067070	362
Lake Charlotte near Anahuac (e) (c) (t)	08067118	364
Trinity River at Wallisville (e) (c) (t)	08067252	370

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. 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 Chyenne Creek Tributary near Channing (e)	07227460	0.86	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
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
Middle Pease River near Paducah (d)	07307750	1,086	1973-79
Middle Pease River near Paducah (d)	07307760	1,123	1980-82

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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 near Electra (d)	07312200*	652	1960-99
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	1943-93
Red River at Denison Dam near Denison (d)	07331600	39,720	1924-89
Bois D'Arc Creek near Randolph (d)	07332600	72	1963-85
Cooper Creek near Bonham (e)	07332602	6.21	1966-74
Pat Mayse Lake near Chicota (d)	07335390	175	1968-96
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 near Jacksonville (d)	08034500	376	1939-79
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Ayish Bayou at San Augustine (d)	08039000	15.80	1924-25
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
Hillebrandt Bayou near Lovell Lake (d)	08042500	128	1954-84
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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
Cottonwood Creek at Forest Lane, Dallas (e)	08057140	8.50	1962-78
Floyd Branch at Forrest Lane, Dallas (e)	08057160	4.17	1962-78
White Rock Creek at White Rock Lake, Dallas (d)	08057300	100	1963-79
Ash Creek at Highland Road, Dallas (e)	08057320	6.92	1963-78
Forney Creek at Lawnview Avenue, Dallas (e)	08057340	1.84	1963-72
White Rock Creek at Scyene Road, Dallas (d)	08057400	122	1963-79
Elm Creek at Seco Boulevard, Dallas (e)	08057415	1.25	1973-78
Fivemile Creek at 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
Newton Creek at Interstate Highway 635, Dallas (e)	08057135	5.91	1974-78
Trinity River below Dallas (d)	08057410	6,278	1956-58
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Tantaboque Creek near Trinity (e)	08066140	61.3	1966-73
Caney Creek near Groveton (e)	08066145	41.4	1966-73
Brushy Creek near Onalaska (d)	08066150	29.1	1966-70
Rocky Creek near Onalaska (e)	08066180	40.6	1966-73
Livingston Reservoir outflow weir near Goodrich (d)	08066191	16,583	1969-94
Long King Creek near Goodrich (d)	08066210	220	1972-81
Bluff Creek Tributary near Livingston (e)	08066280	0.62	1965-74
Big Creek near Shepherd(e)	08066400	38.80	1966-89
Gaylor Creek near Moss Hill (e)	08066800	32.3	1966-73
Devers Canal near Liberty (d)	08067080	N/A	1972-82
Cedar Bayou at Crosby (d)	08067500*	65.0	1972-91
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
Little Cypress Creek near Cypress (d)	08068780*	41.0	1983-92
Cypress Creek at Grant Road near Houston (d)	08068800*	214	1983-92
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
Langham Creek at West Little York Road, Addicks (d)	08072760*	25.0	1977-85
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 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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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
Millers Creek Reservoir near Bomartin (d)	08082800	240	1975-94
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
Cat Claw Creek at Abilene (d)	08083420*	13	1971-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene (d)	08083470	119	1971-84
Paint Creek near Haskell (d)	08085000	914	1950-51
Humphries Draw near Haskell (e)	08085300	3.51	1965-77
Clear Fork Brazos River at Crystall Falls (d)	08086000	4,323	1922-29
Hubbard Creek near Sedwick (d)	08086015	128	1964-66
Hubbard Creek at Highway 380 near Moran (e)	08086020	152	1963-76
Deep Creek near Putnam (e)	08086030	33.8	1963-66
Brushy Creek near Putnam (e)	08086040	27.6	1963-66
Mexia Creek near Putnam (e)	08086045	67.0	1963-66
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
Lake Palo Pinto near Santo (e)	08090300	461	1964-82
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
Lake Pat Cleburne near Cleburne (d)	08091900	100	1965-85
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
Aquilla Creek above Aquilla (d)	08093360*	255.0	1980-92
Cobb Creek near Abbott (d)	08093400	12.40	1967-79
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

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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
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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
Deep Creek near Dunn (d)	08120500	198	1953-86
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
Oak Creek Reservoir near Blackwell (e)	08125500	238	1953-83
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
South Concho River at Christoval (d)	08128000*	412.6	1931-95
Middle Concho River above Tankersley (d)	08128400*	2,084	1962-95
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*	226.43	1961-95

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Spring Creek near Tankersley (d)	08131000	699	1930-60
South Concho River above Pecan Creek near San Angelo (e)	08131300	470	1963-84
Pecan Creek near San Angelo (d)	08131400	81.10	1961-86
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
Puddle Creek near Veribest (e)	08136200	12.0	1966-73
Frog Pond Creek near Eden (e)	08136300	1.96	1967-73
Mukewater Creek SWS No. 10A near Trickham (e)	08136900	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 at Brady (d)	08145000	588	1939-86
Brady Creek Tributary near Brady (e)	08145100	4.05	1967-73
Lake Buchanan near Burnet (e)	08148000	31,910	1937-90
North Llano River near Junction (d)	08148500	914	1915-77
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
Sandy Creek near Kingsland (d)	08152000	327	1967-93
Little Flatrock Creek near Marble Falls (e)	08152700	3.20	1966-74
Spring Creek near Fredricksburg (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
Walnut Creek at Farm-Market 1325 near Austin (e)	08158100	12.60	1975-88

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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 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
Guadalupe River at New Braunfels (d)	08169500*	1,652	1915-27
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
Plum Creek near Lockhart (d)	08172500	184	1925-30
Plum Creek near Luling (d)	08173000	309	1930-93
San Marcos River at Ottine (d)	08173500	1,249	1915-43
Peach Creek below Dilworth (d)	08174600	460	1959-79
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Olmos Creek at Dresden Drive, San Antonio (d)	08177700*	21.2	1968-81
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
San Antonio River at San Antonio (d)	08178000	41.8	1895-1906, 1915-29, 1939-97
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
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 Lake near San Antonio (e)	08179500	634	1913-94
Medina Canal near Riomedina (e)	08180000	N/A	1922-34, 1957-93
Medina River near Riomedina (d)	08180500	650	1922-34, 1953-73
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
Medio Creek near Beeville (d)	08189300	204	1962-77
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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
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
Sanderson Canyon at Sanderson (d)	08376300	195	1968-80
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,

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
			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
Giffin Springs at Toyahvale (d)	08427000*	N/A	1932-33
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 above Fort Davis (d)	08431700	52.40	1966-86
Limpia Creek below Fort Davis (d)	08431800	227	1962-77
Limpia Creek near Fort Davis (d)	08432000	303	1925-32
Barrilla Draw near Saragosa (d)	08433000	612	1925-26, 1932, 1976-83
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
Independence Creek near Sheffield (d)	08447020	763	1974-85
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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
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
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
Red River near Gainesville	07316000	30,872	SC, Cl	1944-46,
			SC, T, pH, Cl	1953-63,

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
			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
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
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,

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
			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	1966-75
Elm Fork Trinity River near Lewisville	08053000	1,673	SC	1982-86,
			T	1976-86
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
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
Trinity River at Anahuac	08067300	17,912	SC, pH, Cl	1950-65
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
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
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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Croton Creek near Jayton	08081200	290	SC, T	1961-80
Salt Croton Creek near Aspermont	08081500	64.30	SC T	1969-77, 1972-73
Salt Fork Brazos River near Aspermont	08082000	5,130	SC, T, pH, Cl SC, T	1949-51, 1957-82
Stinking Creek near Aspermont	08082100	88.80	T SC, T	1950, 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
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 SC, T	1950-51, 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 SC, T	1942-48, 1978-81
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 T	1942-91, 1950-55, 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	1966, 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, 1990-97
Leon River near Belton	08102500	3,542	T	1957-72
South Fork Rocky Creek near Briggs	08103900	33.30	S	1963-65
Lampasas River at Youngsport	08104000	1,240	SC, T	1961-64
Little River near Little River	08104500	5,228	SC, T	1965-73, 1980-82
Little River 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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Navasota River near Groesbeck	08110400	311	SC, T	1968-78
Navasota River near Easterly	08110500	968	SC	1942-43, 1947
Navasota River near Bryan	08111000	1,454	SC, T S	1959-81, 1976-81
Brazos River near Richmond	08114000	45,007	S SC T	1966-86, 1942-95, 1951-95
Brazos River near Rosharon	08116650	45,399	SC, T	1969-80
Brazos River at Harris Reservoir near Angleton	08116700	44,000	SC T	1962-77, 1967-77
Brazos River at Brazoria Reservoir near Brazoria	08117200	44,000	SC T	1962-77, 1967-77
San Bernard River near Boling	08117500	727	SC, T	1978-81
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 Cl	1950-52, 1959-70, 1975-82, 1951-52
Deep Creek near Dunn	08120500	198	SC, T	1953-54
Colorado River near Cuthbert	08120700	3,912	SC T	1965-99 1965-80, 1983-99
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
Colorado River at Robert Lee	08124000	15,307	SC, T, pH, Cl S	1948-51, 1949-51
Oak Creek near Blackwell	08126000	209	SC, T	1950
Colorado River at Ballinger	08126500	16,413	SC, T S	1961-79, 1978-79
Elm Creek at Ballinger	08127000	450	SC, T	1968-91
Concho River at Paint Rock	08136500	6,574	SC, T S	1946-50, 1967-90, 1978-81
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 T	1962-69, 1963-70
Colorado River near San Saba	08147000	37,217	SC, T S	1947-92, 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
Colorado River at Austin	08158000	39,009	SC, T	1948-91

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
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 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
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
San Antonio River at San Antonio	08178000	41.8	SC, T	1991-92,
				1996-97
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
San Antonio River near Falls City	08183500	2,113	SC, pH, T, DO	1987-96
Cibolo Creek near Falls City	08186000	827	SC, T	1969-91
Escondido Creek SWS #1 near Kenedy	08187000	3.29	S	1955-65
Guadalupe River at Tivoli	08188800	10,128	SC, T	1966-82
Mission River at Refugio	08189500	690	SC, T	1961-81
Nueces River at Cotulla	08194000	5,171	SC	1942
Nueces River near Tilden	08194500	8,093	SC, T, S	1950
Frio River at Calliham	08207000	5,491	SC, T	1968-81
Nueces River near Three Rivers	08210000	15,427	SC	1945-47,
			SC, T, pH, Cl, S	1951-52,
			SC, T	1975-81
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 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,

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
				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 Mission Pumping Plant	08468000	171,800	SC	1945-50
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

WATER RESOURCES DATA—TEXAS, 2000

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 49 gaging stations; stage only at 3 gaging stations; stage and contents at 24 lakes and reservoirs; and water quality at 34 gaging stations. Also included are data for 3 partial-record stations comprised of 2 flood-hydrograph and 3 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-00-2." 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 2000 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, 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 2000.

Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,481,000 acre-feet, decreased from 76 percent at the end of September 1999 to 73 percent at the end of September 2000. Records from these reservoirs indicate that storage decreased in 70, increased in 5, and remained the same in 2.

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

Streamflow

In the area covered in volume 2, streamflow averaged normal during water year 2000. Streamflow for water year 2000 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 2000 averaged below normal. Monthly mean discharges for water year 2000 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 below normal during November through April and normal for the remaining 6 months. The station North Bosque River near Clifton had above normal streamflow during June, normal streamflow during November, and December and below normal streamflow for the remaining 9 months. The station North Concho River near Carlsbad had above normal streamflow for March, below normal streamflow for May and normal streamflow for the remaining 10 months. Streamflow for the station Guadalupe River near Spring Branch was below normal for each month of water year 2000.

Conservation storage in 14 selected reservoirs in this area of the State, with a total combined conservation capacity of 6,816,000 acre-feet, decreased from 87 percent of capacity from the end of September 1999 to 84 percent at the end of September 2000. Records from these reservoirs indicate that storage increased in 1, decreased in 12, and remained the same in 1 during the water year.

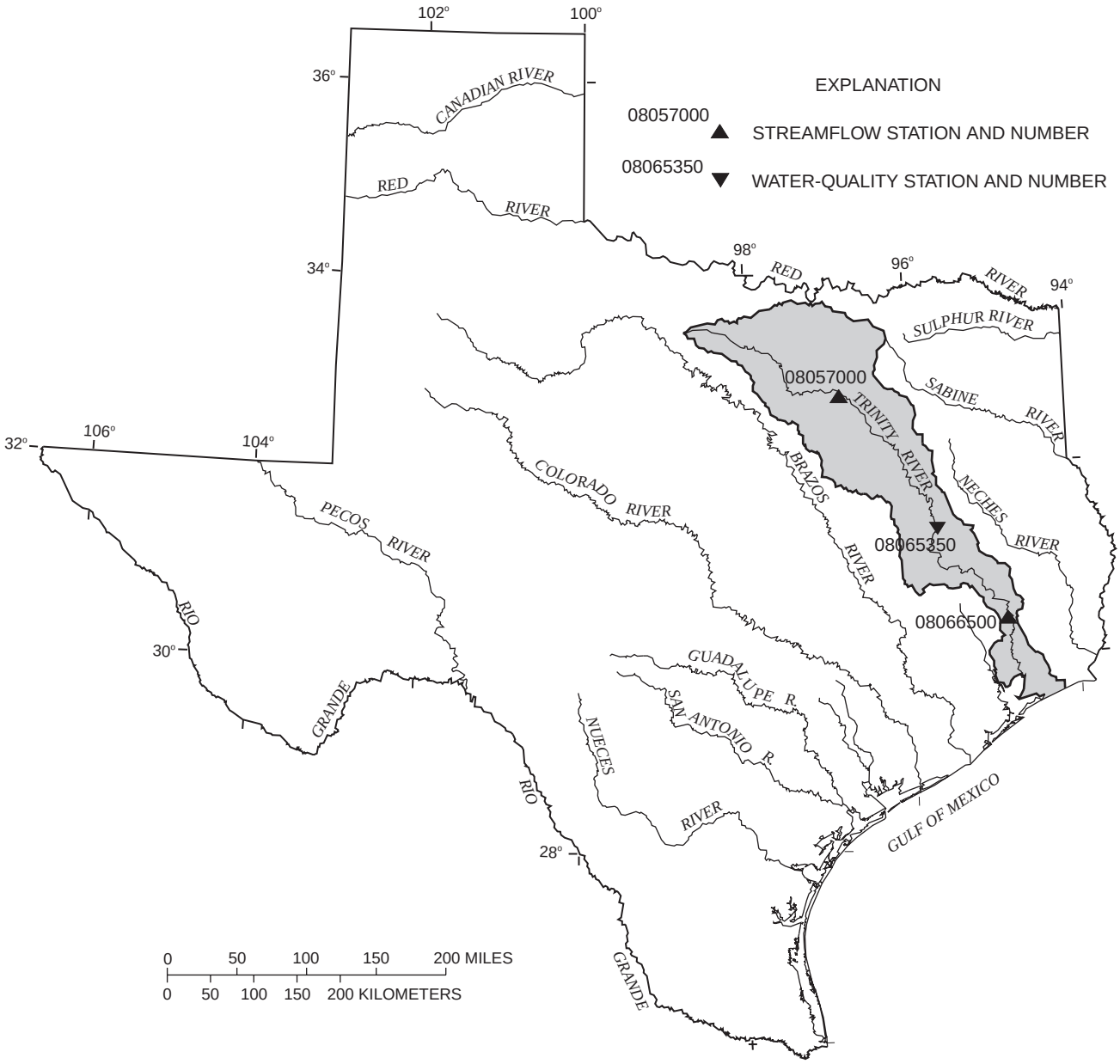
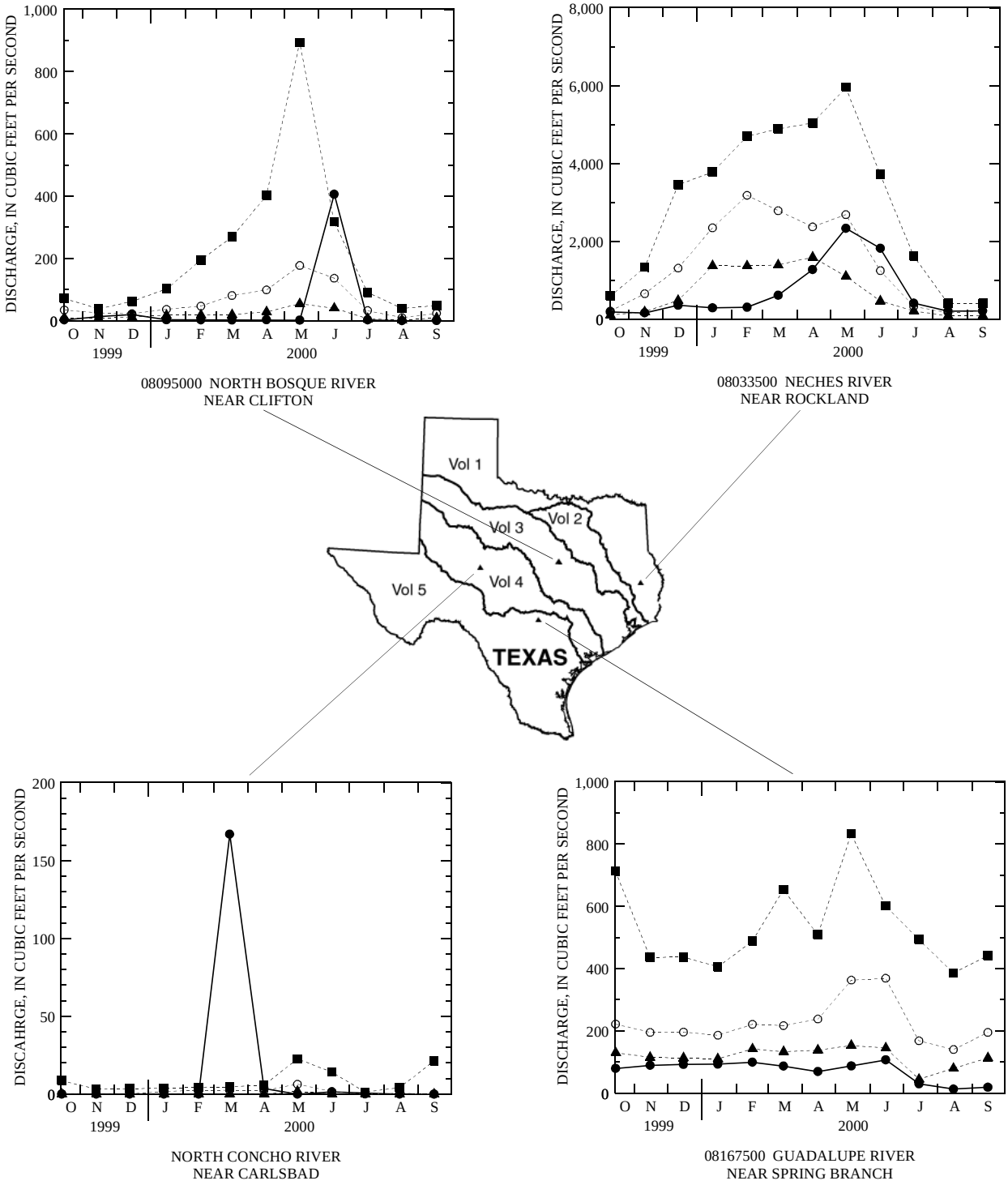


Figure 1. Area of Texas covered by volume 2 (shaded) and location of selected streamflow and water-quality stations in volume 2.



EXPLANATION

—●— **MONTHLY MEAN DISCHARGE FOR 2000 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 2000 water year and median of the monthly mean discharges for 1961–90 water years.

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.

Records of discharge-weighted-average concentrations of dissolved solids for water year 2000 are compared with those for water years 1996–2000 for selected long-term daily or continuous-record water-quality stations (fig. 1) in the Trinity River Basin. Results are shown in table 2.

Table 1. Streamflow at two selected stations

Station no. and name		Discharge during 2000 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	13,200	343	880	111,000	10	1,814 (1931-2000)
08066500	Trinity River at Romayor, TX	18,200	764	2,957	122,000	104	7,770 (1924-2000)

Table 2. Comparison of records of discharge-weighted-average concentrations of dissolved solids for the 2000 and 1996-2000 water years

Station no. and name		Mean discharge (cubic feet per second)		Discharge-weighted-average concentration of dissolved solids (milligrams per liter)	
		2000	1996-2000	2000	1996-2000
Trinity River Basin					
08065350	Trinity River near Crockett, TX	2,664	5,841	265	250

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 hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 40 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of the 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 remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

Additional information about the NASQAN program is available through the world wide web at:

http://water.usgs.gov/nasqan/

The National Atmospheric Deposition Program/National Trends Network (NAPD/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of over 200 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NOx scheduled to begin in 2000.

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

http://nadp.sws.uiuc.edu

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. There are currently two NAWQA Programs operating in Texas; the Trinity NAWQA and the South Central Texas NAWQA.

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

http://water.usgs.gov/nawqa/nawqa_home.html
http://tx.usgs.gov/trin
http://tx.usgs.gov/sctx

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 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, 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 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 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 a critical error in published records is discovered, a revision is included in the first report published following discovery of the error. Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscripts published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check, because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period.

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

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

ANNUAL RUNOFF.--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. C2; Book 5, Chap. A1, A3, and A4. 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 Collection 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.

Additional information about the NASQAN program is available through the world wide web at:

http://water.usgs.gov/public/nasqan/

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 (2000) 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 to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. 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 the appropriate computer file to insure the most recent updates.

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
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.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blanks.
M	Presence of material verified but not qualtified.

Dissolved Trace-Element Concentrations

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (mg/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 mg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

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/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (303-491-5643).

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:

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.

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.

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:

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.

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

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

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

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

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

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

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-sha-ped bacteria which ferment lactose with gas formation within 48 hours at 35 ºC. 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 ºC ± 1.0 ºC on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic invironment. 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 the mass per unit area or volume of habitat.

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

Dry mass refers to the mass of residue present after drying in an oven at 105 ºC for zooplankton and periphyton, 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.

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

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

Bottom material: See "Bed material".

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

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

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

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second per 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, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Cubic feet per second per square mile [$(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

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

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

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

Drainage area of a site on a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system with a common outley for it's surface runoff, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Extractable organic halides (EOX) are organic compounds which contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried stream bottom sediments. 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 th stream bottom sediments.

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

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

Supplementary gage is a gage used to obtain additional data. A supplementary gage may be used in place of the principal gage if the latter is isolated or cut

off from the channel, or registers only above (or below) a certain gage height. One or more supplementary gages may be used on bypass channels or overflow channels, or on streams that flow in several channels, each of which is rated independently.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Low tide is the minimum height reached by each falling tide.

Mean high tide is the average of all high tides over a specified period.

Mean low tide is the average of all low tides over a specified period.

Mean water level is the average of all tides over a specified period.

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

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

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

Micrograms per gram (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 liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Microsiemens per centimeter (µS/cm, US/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 solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

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.

Organism is any living entity.

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

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

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

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

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

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

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

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

Percent composition 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, mass, or volume.

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

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

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

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

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

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

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

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

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

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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2/time)] for periphyton and macrophytes and [mg C/(m^3/time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg 0/(m^2/time)] for periphyton and macrophytes and [mg 0/(m^3/time)] for phytoplankton are the units for expressing primary productivity. They define 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.

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.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To

achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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

Sea level was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports and refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a 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.

Suspended-sediment load is a general term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either discharge or concentration.

Suspended total residue at 105 ^oC concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). A small aliquot of the sample is used for the analysis.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a cross section during a given time.

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

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

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 ^oC. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 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.

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

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.

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

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates

are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hard-board) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

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

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

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

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. 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 determine when the results should be reported as "suspended, total."

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

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

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchal 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

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings 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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

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

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

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

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

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

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.

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 man-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 toxid and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1990, is called the "1990 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.

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

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. ***Water temperature-influential factors, field measurement, and data presentation***, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. ***Guidelines for collection and field analysis of ground-water samples for selected unstable constituents***, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. ***Application of surface geophysics to ground-water investigations***, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. ***Application of seismic-refraction techniques to hydrologic studies***, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. ***Application of borehole geophysics to water-resources investigations***, by W.S. Keys and L.M. MacCary: USGS--TWRI 11.0

2-E2. ***Borehole geophysics applied to ground-water investigations***, by W.S. Scott Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. ***General field and office procedures for indirect discharge measurements***, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. ***Measurement of peak discharge by the slope-area method***, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. ***Measurement of peak discharge at culverts by indirect methods***, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. ***Measurement of peak discharge at width contractions by indirect methods***, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. ***Measurement of peak discharge at dams by indirect methods***, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. ***General procedure for gaging streams***, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. ***Stage measurements at gaging stations***, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. ***Discharge measurements at gaging stations***, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. ***Measurement of time of travel in streams by dye tracing***, by F.A. Kilpatrick, and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

3-A10. ***Discharge ratings at gaging stations***, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. ***Measurement of discharge by moving-boat method***, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. ***Fluorometric procedures for dye tracing***, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A12, 1986. 41 pages.

3-A13. ***Computations of continuous records of streamflow***, by E.J. Kennedy: USGS-- TWRI Book 3, Chapter A13, 1983. 53 pages.

3-A14. ***Use of flumes in measuring discharge***, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. ***Computation of water-surface profiles in open channels***, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. ***Measurement of discharge using tracers***, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. ***Acoustic velocity meter systems***, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. ***Determination of stream reaeration coefficients by use of tracers***, by F.A. Kilpatrick, R.E. Rathbun, N. Yotsukura, G.W. Parker, and L.L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. ***Levels of streamflow gaging stations***, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.

3-A20. ***Simulation of soluble waste transport and buildup in surface waters using tracers***, by F.A. Kilpatrick: USGS --TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21. ***Stream-gaging cableways***, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. ***Aquifer-test design, observation, and data analysis***, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. ***Introduction to ground-water hydraulics, a programmed text for self instruction***, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. ***Type curves for selected problems of flow to wells in confined aquifers***, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. ***Regression modeling of ground-water flow***, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B4. ***Supplement 1. Regression modeling of ground-water flow-Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems***, by R.L. Cooley. USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.

3-B5. ***Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction***, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. ***The principle of superposition and its application in ground-water hydraulics***, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.

3-B7. ***Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow***, by E.J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. ***Fluvial sediment concepts***, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. ***Field methods for measurement of fluvial sediment***, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. ***Computation of fluvial-sediment discharge***, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. ***Some statistical tools in hydrology***, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. ***Frequency curves***, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. ***Low-flow investigations***, by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. ***Storage analyses for water supply***, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. ***Regional analyses of streamflow characteristics***, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

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

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. ***Methods for determination of inorganic substances in water and fluvial sediments***, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. ***Determination of minor elements in water by emission spectroscopy***, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. ***Methods for the determination of organic substances in water and fluvial sediments***, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. ***Methods for collection and analysis of aquatic biological and microbiological samples***, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. ***Methods for determination of radioactive substances in water and fluvial sediments***, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. ***Quality assurance practices for the chemical and biological analyses of water and fluvial sediments***, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

Section A. Sediment Analysis

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

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. ***A modular three-dimensional finite-difference ground-water flow model***, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.

6-A2. ***Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model***, by S.A. Leake and D.E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.

6-A3. ***A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual***, by L.J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.

6-A4. ***A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions***, by R.L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.

6-A5. ***A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details***, by L.J. Torak. USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.

6-A6. ***A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction***, by Eric D. Swain and Eliezer J. Wexler. 1995. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. ***Finite difference model for aquifer simulation in two dimensions with results of numerical experiments***, by pages.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. ***Computer model of two-dimensional solute transport and dispersion in ground water***, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. ***A model for simulation of flow in singular and interconnected channels***, by R.W. Schaffrannek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1983. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. ***Methods of measuring water levels in deep wells***, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. ***Installation and service manual for U.S. Geological Survey manometers***, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. ***National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling,*** by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A1. 1998. 47 pages.

9-A2. ***National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling,*** edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A2. 1998. 94 pages.

9-A3. ***National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling,*** edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A3. 1998. 75 pages.

9-A5. ***National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples,*** edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS--TWRI Book 9, Chapter A5. 1999. 149 pages.

9-A6. ***National Field Manual for the Collection of Water-Quality Data: Field Measurements***, edited by F.D. Wilde and D.B. Radtke: USGS--TWRI Book 9, Chapter A6. 1998. Variously paginated.

9-A7. ***National Field Manual for the Collection of Water-Quality Data: Biological Indicators***, edited by D.N. Myers and F.D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997. 49 pages.

9-A7. ***National Field Manual for the Collection of Water-Quality Data: Five-Day Biochemical Oxygen Demand,*** by G.C. Delzer and S.W. McKenzie: USGS-TWRI Book 9, Chapter A7.2. 1999. 28 pages.

9-A8. ***National Field Manual for the Collection of Water-Quality Data: Bottom Material Samples***, by D.B. Radtke: USGS--TWRI Book 9, Chapter A8. 1998. 48 pages.

9-A9. ***National Field Manual for the Collection of Water-Quality Data: Saafety in Field Activities***, by S.L. Lane and R.G. Fay: USGS--TWRI Book 9, Chapter A9. 1998. 60 pages.

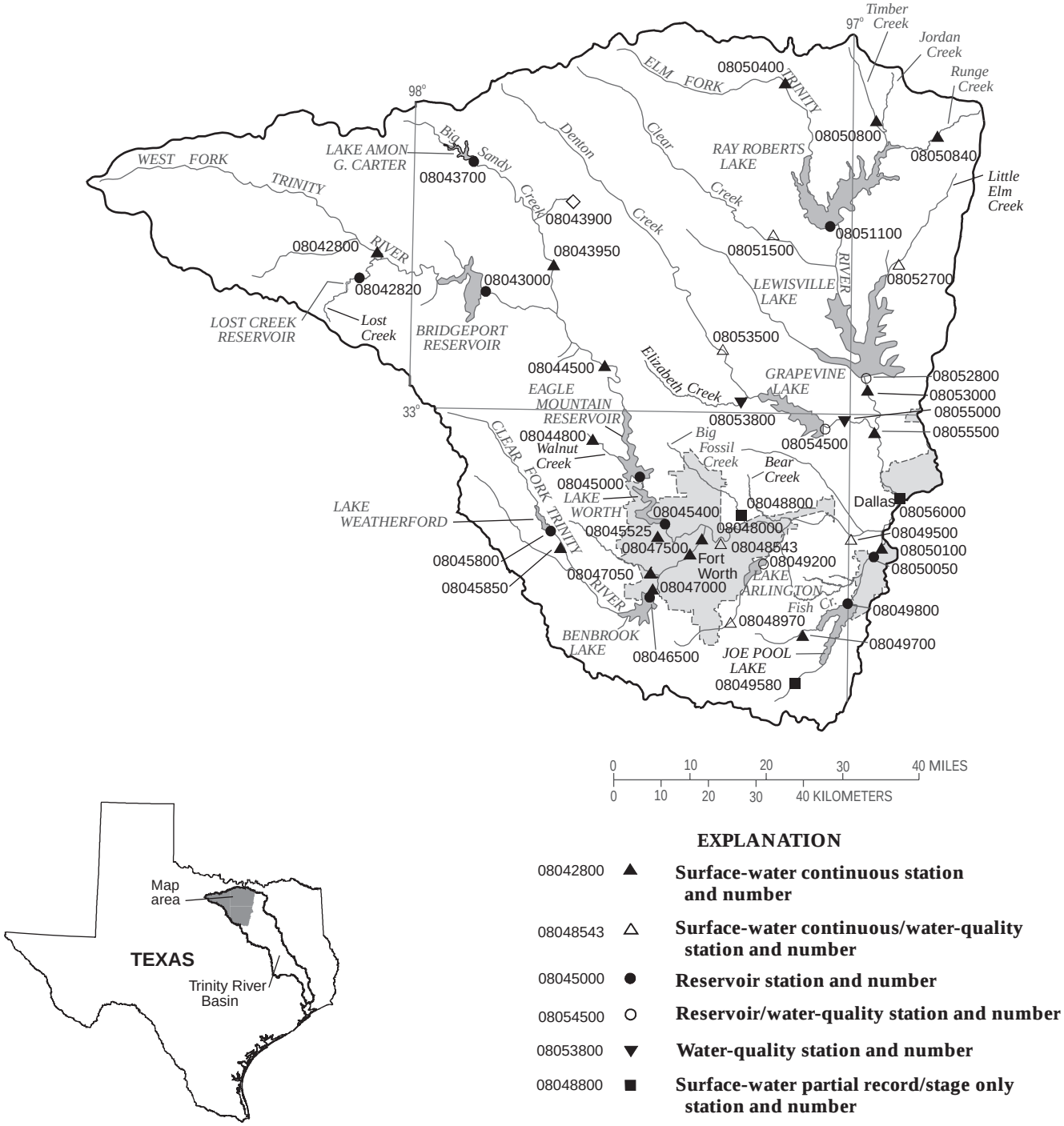


Figure 3.-- Map showing location of gaging stations in the first section of the Trinity River Basin

08042800 West Fork Trinity River near Jacksboro, TX 28
08042820 Lost Creek Reservoir near Jacksboro, TX 30
08043000 Bridgeport Reservoir above Bridgeport, TX 34
08043700 Lake Amon G. Carter near Bowie, TX 36
08043900 Lyndon B. Johnson National Grasslands near Alvord, TX 40
08043950 Big Sandy Creek near Chico, TX 42
08044500 West Fork Trinity River near Boyd, TX 44
08044800 Walnut Creek at Reno, TX 46
08045000 Eagle Mountain Reservoir above Fort Worth, TX 48
08045400 Lake Worth above Fort Worth, TX 50
08045525 Farmers Branch at Westworth Village, TX 52
08045800 Lake Weatherford near Weatherford, TX 60
08045850 Clear Fork Trinity River near Weatherford, TX 62
08046500 Benbrook Lake near Benbrook, TX 64
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 383
08048970 Village Creek at Everman, TX 82
08049200 Lake Arlington at Arlington, TX 86
08049500 West Fork Trinity River at Grand Prairie, TX 94
08049580 Mountain Creek near Venus, TX 104
08049700 Walnut Creek near Mansfield, TX 106
08049800 Joe Pool Lake near Duncanville, TX 108
08050050 Mountain Creek Lake near Grand Prairie, TX 110
08050100 Mountain Creek at Grand Prairie, TX 112
08050400 Elm Fork Trinity River at Gainesville, TX 114
08050800 Timber Creek near Collinsville, TX 116
08050840 Range Creek near Collinsville, TX 118
08051100 Ray Roberts Lake near Pilot Point, TX 120
08051500 Clear Creek near Sanger, TX 122
08052700 Little Elm Creek near Aubrey, TX 126
08052800 Lewisville Lake near Lewisville, TX 128
08053000 Elm Fork Trinity River near Lewisville, TX 130
08053500 Denton Creek near Justin, TX 132
08053800 Elizabeth Creek at State Highway 114 near Roanoke, TX 136
08054500 Grapevine Lake near Grapevine, TX 138
08055000 Denton Creek near Grapevine, TX 154
08055500 Elm Fork Trinity River near Carrollton, TX 156
08056000 Elm Fork Trinity River at Frasier Dam, Dallas, TX 158

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 Sep 1978.

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

REMARKS.--No estimated daily discharges. Records good. Since 1974, at least 10% of contributing drainage area has been affected by discharge from the flood-detention pools of 21 floodwater-retarding structures with a combined detention capacity of 19,780 acre-ft. 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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 Jun 1941 reached a stage of 30 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 697 ft^3/s, May 3, gage height, 11.32 ft; minimum discharge, 0.00 ft^3/s, on many days, gage height, 3.72 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	365	8.8	15	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	621	5.6	7.8	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	672	4.9	5.9	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	315	12	4.2	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	65	8.5	3.3	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	18	4.1	4.0	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	9.3	2.2	5.1	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	65	1.6	4.6	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	29	1.3	3.1	.00	.00
10	.00	.00	.00	.00	.00	.67	.00	11	1.8	1.8	.00	.00
11	.00	.00	.00	.00	.00	1.7	.00	6.2	1.2	1.4	.00	.00
12	.00	.00	.00	.00	.00	.63	.00	4.5	.94	1.3	.00	.00
13	.00	.00	.00	.00	.00	.01	.00	2.8	.84	1.3	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	2.2	.84	3.0	.00	.00
15	.00	.00	.00	.00	.00	.00	.20	1.8	4.0	1.9	.00	.00
16	.00	.00	.00	.00	.00	.00	2.0	1.6	1.8	1.0	.00	.00
17	.00	.00	.00	.00	.00	.00	2.0	1.4	4.2	.79	.00	.00
18	.00	.00	.00	.00	.00	.00	3.0	1.3	3.6	.61	.00	.00
19	.00	.00	.00	.00	.00	.00	4.2	1.3	5.3	.41	.00	.00
20	.00	.00	.00	.00	.00	.00	2.1	1.4	5.2	.18	.00	.00
21	.00	.00	.00	.00	.00	.00	1.5	1.2	3.6	.04	.00	.00
22	.00	.00	.00	.00	.00	.00	1.0	1.1	2.3	.01	.00	.00
23	.00	.00	.00	.00	.00	.00	.94	1.0	1.7	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.85	.91	1.4	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.58	.76	1.4	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.29	.70	2.3	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.05	4.6	2.7	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.01	15	2.8	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.03	11	14	.00	.00	.00
30	.00	.00	.00	.00	---	.00	20	20	31	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	20	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	3.01	38.75	2271.07	141.92	66.74	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.097	1.29	73.3	4.73	2.15	.000	.000
MAX	.00	.00	.00	.00	.00	1.7	20	672	31	15	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.70	.84	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	6.0	77	4500	281	132	.00	.00

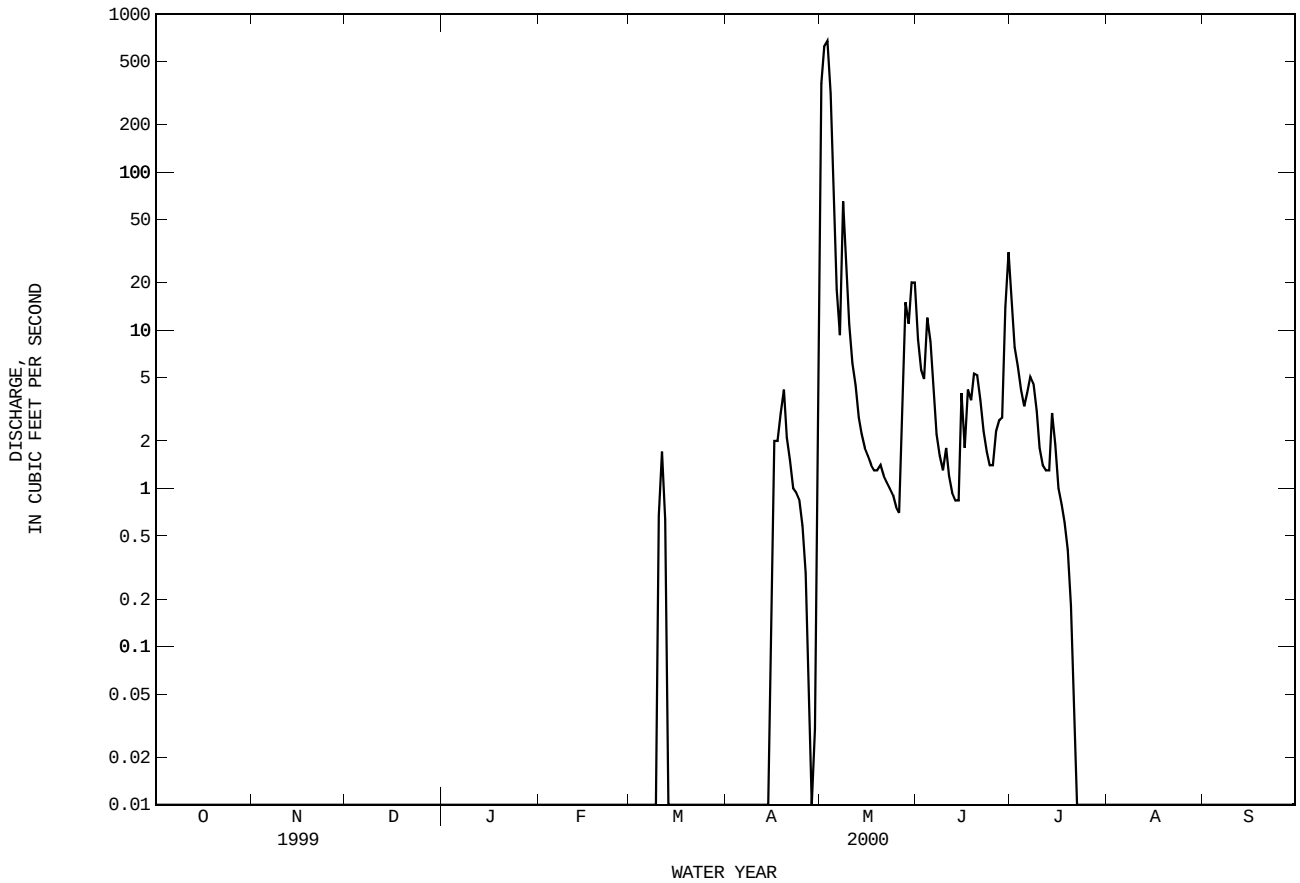
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000z, BY WATER YEAR (WY)

MEAN	146	38.7	63.4	33.1	85.3	116	132	376	257	28.3	17.4	46.2
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	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1978	1978	1978	1978	1978	1978	1980	1984	1984	1978	1980	1982

08042800 WEST FORK TRINITY RIVER NEAR JACKSBORO, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000z	
ANNUAL TOTAL	9096.96		2521.49			
ANNUAL MEAN	24.9		6.89		112	
HIGHEST ANNUAL MEAN					468	1990
LOWEST ANNUAL MEAN					.072	1984
HIGHEST DAILY MEAN	930	Mar 20	672	May 3	29100	May 17 1989
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Apr 6 1974
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 6	.00	Oct 1	.00	Apr 12 1974
INSTANTANEOUS PEAK FLOW			697	May 3	33300	May 17 1989
INSTANTANEOUS PEAK STAGE			11.32	May 3	31.52	May 17 1989
ANNUAL RUNOFF (AC-FT)	18040		5000		80900	
10 PERCENT EXCEEDS	9.4		4.0		143	
50 PERCENT EXCEEDS	.00		.00		.90	
90 PERCENT EXCEEDS	.00		.00		.00	

z Period of regulated streamflow.



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 mean sea level. 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. Conservation pool storage is 11,960 acre-ft. Data regarding the dam are 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. There was no known diversion from the lake during the current water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 13,400 acre-ft, Mar 19, 1999, elevation, 1,012.87 ft; minimum contents, 8,750 acre-ft, Sep 30, 2000, elevation, 1,000.76 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 13,400 acre-ft, Mar 19, elevation, 1,012.87 ft; minimum contents, 10,250 acre-ft, Mar 7, elevation, 1,005.14 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,760 acre-ft, Oct 1, elevation, 1,006.50 ft; minimum contents, 8,750 acre-ft, Sep 30, elevation, 1,000.76 ft.

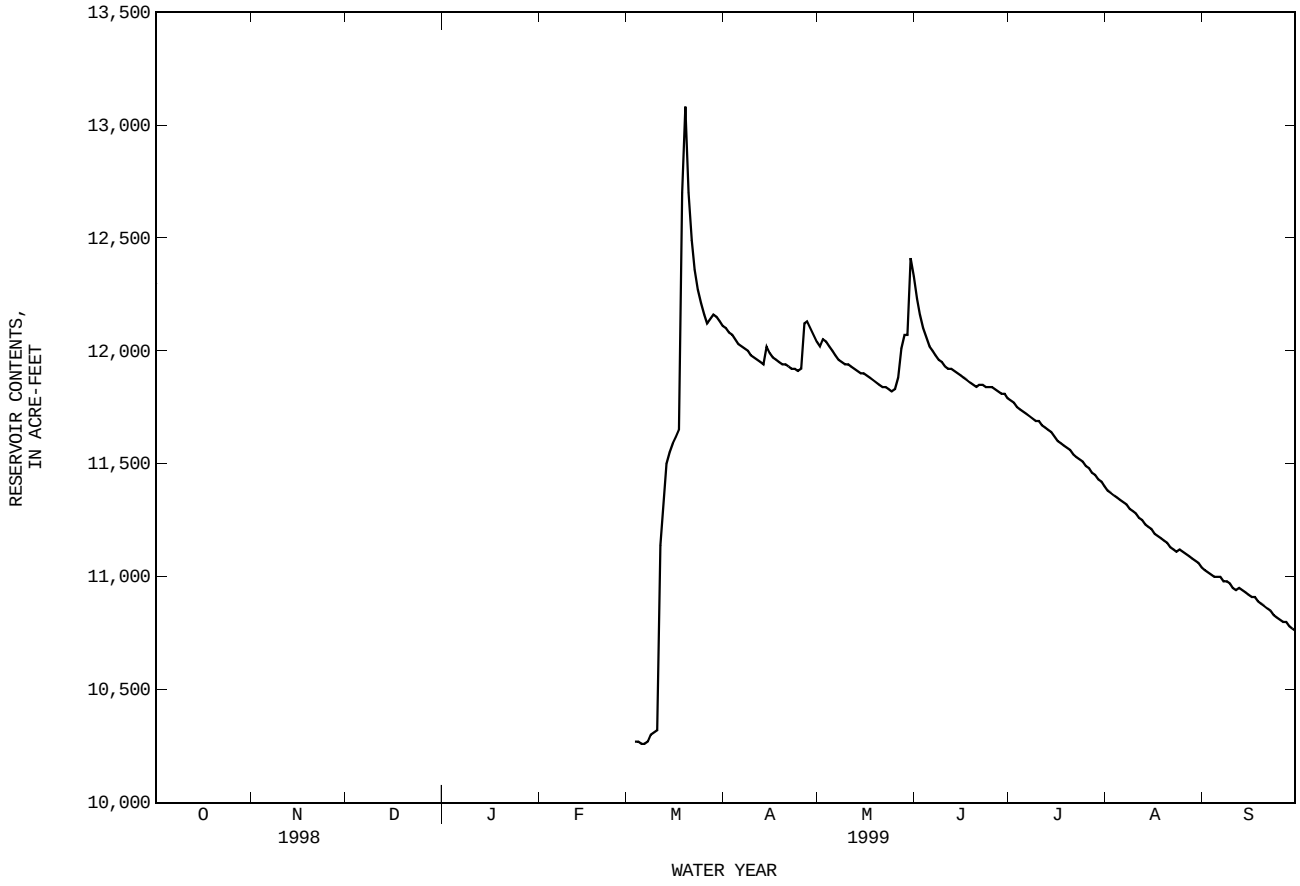
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	12100	12020	12230	11780	11380	11030
2	---	---	---	---	---	---	12080	12050	12160	11770	11370	11020
3	---	---	---	---	---	10270	12070	12040	12100	11750	11360	11010
4	---	---	---	---	---	10270	12050	12020	12060	11740	11350	11000
5	---	---	---	---	---	10260	12030	12000	12020	11730	11340	11000
6	---	---	---	---	---	10260	12020	11980	12000	11720	11330	11000
7	---	---	---	---	---	10270	12010	11960	11980	11710	11320	10980
8	---	---	---	---	---	10300	12000	11950	11960	11700	11300	10980
9	---	---	---	---	---	10310	11980	11940	11950	11690	11290	10970
10	---	---	---	---	---	10320	11970	11940	11930	11690	11280	10950
11	---	---	---	---	---	11140	11960	11930	11920	11670	11260	10940
12	---	---	---	---	---	11330	11950	11920	11920	11660	11250	10950
13	---	---	---	---	---	11500	11940	11910	11910	11650	11230	10940
14	---	---	---	---	---	11550	12020	11900	11900	11640	11220	10930
15	---	---	---	---	---	11590	11990	11900	11890	11620	11210	10920
16	---	---	---	---	---	11620	11970	11890	11880	11600	11190	10910
17	---	---	---	---	---	11650	11960	11880	11870	11590	11180	10910
18	---	---	---	---	---	12700	11950	11870	11860	11580	11170	10890
19	---	---	---	---	---	13080	11940	11860	11850	11570	11160	10880
20	---	---	---	---	---	12700	11940	11850	11840	11560	11150	10870
21	---	---	---	---	---	12490	11930	11840	11850	11540	11130	10860
22	---	---	---	---	---	12360	11920	11840	11850	11530	11120	10850
23	---	---	---	---	---	12270	11920	11830	11840	11520	11110	10830
24	---	---	---	---	---	12210	11910	11820	11840	11510	11120	10820
25	---	---	---	---	---	12160	11920	11830	11840	11490	11110	10810
26	---	---	---	---	---	12120	12120	11880	11830	11480	11100	10800
27	---	---	---	---	---	12140	12130	12010	11820	11460	11090	10800
28	---	---	---	---	---	12160	12100	12070	11810	11450	11080	10780
29	---	---	---	---	---	12150	12070	12070	11810	11430	11070	10770
30	---	---	---	---	---	12130	12040	12410	11790	11420	11060	10760
31	---	---	---	---	---	12110	---	12330	---	11400	11040	---
MAX	---	---	---	---	---	---	12130	12410	12230	11780	11380	11030
MIN	---	---	---	---	---	---	11910	11820	11790	11400	11040	10760
(+)						1009.89	1009.71	1010.40	1009.13	1008.19	1007.26	1006.50
(@)							-70	+290	-540	-390	-360	-280

WTR YR 1999 MAX 13400 MIN 10250

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

08042820 LOST CREEK RESERVOIR NEAR JACKSBORO, TX--Continued



08042820 LOST CREEK RESERVOIR NEAR JACKSBORO, TX--Continued

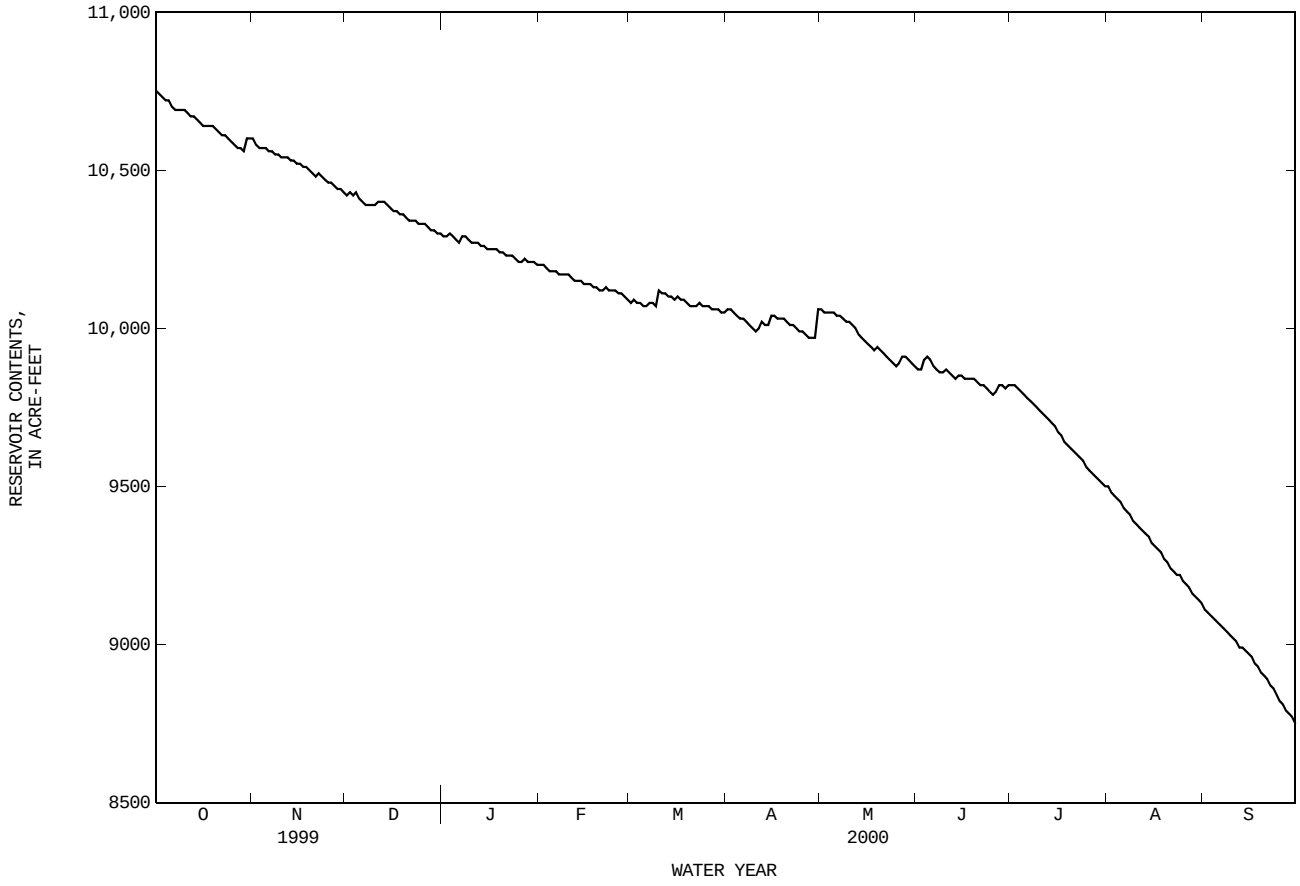
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10750	10600	10420	10290	10200	10080	10060	10060	9870	9820	9500	9110
2	10740	10580	10430	10290	10200	10090	10060	10050	9870	9820	9480	9100
3	10730	10570	10420	10300	10190	10080	10050	10050	9900	9810	9470	9090
4	10720	10570	10430	10290	10180	10080	10040	10050	9910	9800	9460	9080
5	10720	10570	10410	10280	10180	10070	10030	10050	9900	9790	9450	9070
6	10700	10560	10400	10270	10180	10070	10030	10040	9880	9780	9430	9060
7	10690	10560	10390	10290	10170	10080	10020	10040	9870	9770	9420	9050
8	10690	10550	10390	10290	10170	10080	10010	10030	9860	9760	9410	9040
9	10690	10550	10390	10280	10170	10070	10000	10020	9860	9750	9390	9030
10	10690	10540	10390	10270	10170	10120	9990	10020	9870	9740	9380	9020
11	10680	10540	10400	10270	10160	10110	10000	10010	9860	9730	9370	9010
12	10670	10540	10400	10270	10150	10110	10020	10000	9850	9720	9360	8990
13	10670	10530	10400	10260	10150	10100	10010	9980	9840	9710	9350	8990
14	10660	10530	10390	10260	10150	10100	10010	9970	9850	9700	9340	8980
15	10650	10520	10380	10250	10140	10090	10040	9960	9850	9690	9320	8970
16	10640	10520	10370	10250	10140	10100	10040	9950	9840	9670	9310	8960
17	10640	10510	10370	10250	10140	10090	10030	9940	9840	9660	9300	8940
18	10640	10510	10360	10250	10130	10090	10030	9930	9840	9640	9290	8930
19	10640	10500	10360	10240	10130	10080	10030	9940	9840	9630	9270	8910
20	10630	10490	10350	10240	10120	10070	10020	9930	9830	9620	9260	8900
21	10620	10480	10340	10230	10120	10070	10010	9920	9820	9610	9240	8890
22	10610	10490	10340	10230	10130	10070	10010	9910	9820	9600	9230	8870
23	10610	10480	10340	10230	10120	10080	10000	9900	9810	9590	9220	8860
24	10600	10470	10330	10220	10120	10070	9990	9890	9800	9580	9220	8840
25	10590	10460	10330	10210	10120	10070	9990	9880	9790	9560	9200	8820
26	10580	10460	10330	10210	10110	10070	9980	9890	9800	9550	9190	8810
27	10570	10450	10320	10220	10110	10060	9970	9910	9820	9540	9180	8790
28	10570	10440	10310	10210	10100	10060	9970	9910	9820	9530	9160	8780
29	10560	10440	10310	10210	10090	10060	9970	9900	9810	9520	9150	8770
30	10600	10430	10300	10210	---	10050	10060	9890	9820	9510	9140	8750
31	10600	---	10300	10200	---	10050	---	9880	---	9500	9130	---
MAX	10750	10600	10430	10300	10200	10120	10060	10060	9910	9820	9500	9110
MIN	10560	10430	10300	10200	10090	10050	9970	9880	9790	9500	9130	8750
(+)	1006.08	1005.62	1005.27	1005.01	1004.71	1004.59	1004.63	1004.14	1003.99	1003.03	1001.89	1000.76
(@)	-160	-170	-130	-100	-110	-40	+10	-180	-60	-320	-370	-380

WTR YR 2000 MAX 10750 MIN 8750 (@) -2010

(+) 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 Sep 1984.

REVISED RECORDS.--WSP 1922: Drainage area.

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

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 2,040 ft long. The dam was completed in Dec 1931 and storage began Apr 1, 1932. The original dam was 1,900 ft long, but was lengthened to 2,040 ft in 1971-72. The original service spillway was eliminated during construction (1971-72),and a new spillway with approach and discharge channels was built through natural ground 2,800 ft from the left end of dam. The new spillway is 90 ft wide and has eight vertical lift gates that are 11.25 x 22-ft. The controlled outlet works consist of a 48-inch diameter and an 18-inch diameter pipe encased in a concrete conduit extending through the dam. In addition, a controlled 60-inch diameter steel pipe extends through the service spillway wall to the spillway discharge basin. For elevations of outlet works, see table below. Capacity tables are based on surveys made in 1956 and 1968. Conservation pool storage is 386,420 acre-ft. Data regarding the dam are given in the following table:

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 257,600 acre-ft, Oct 1, elevation, 825.86 ft; minimum contents, 176,800 acre-ft, Sep 30, elevation, 817.01 ft.

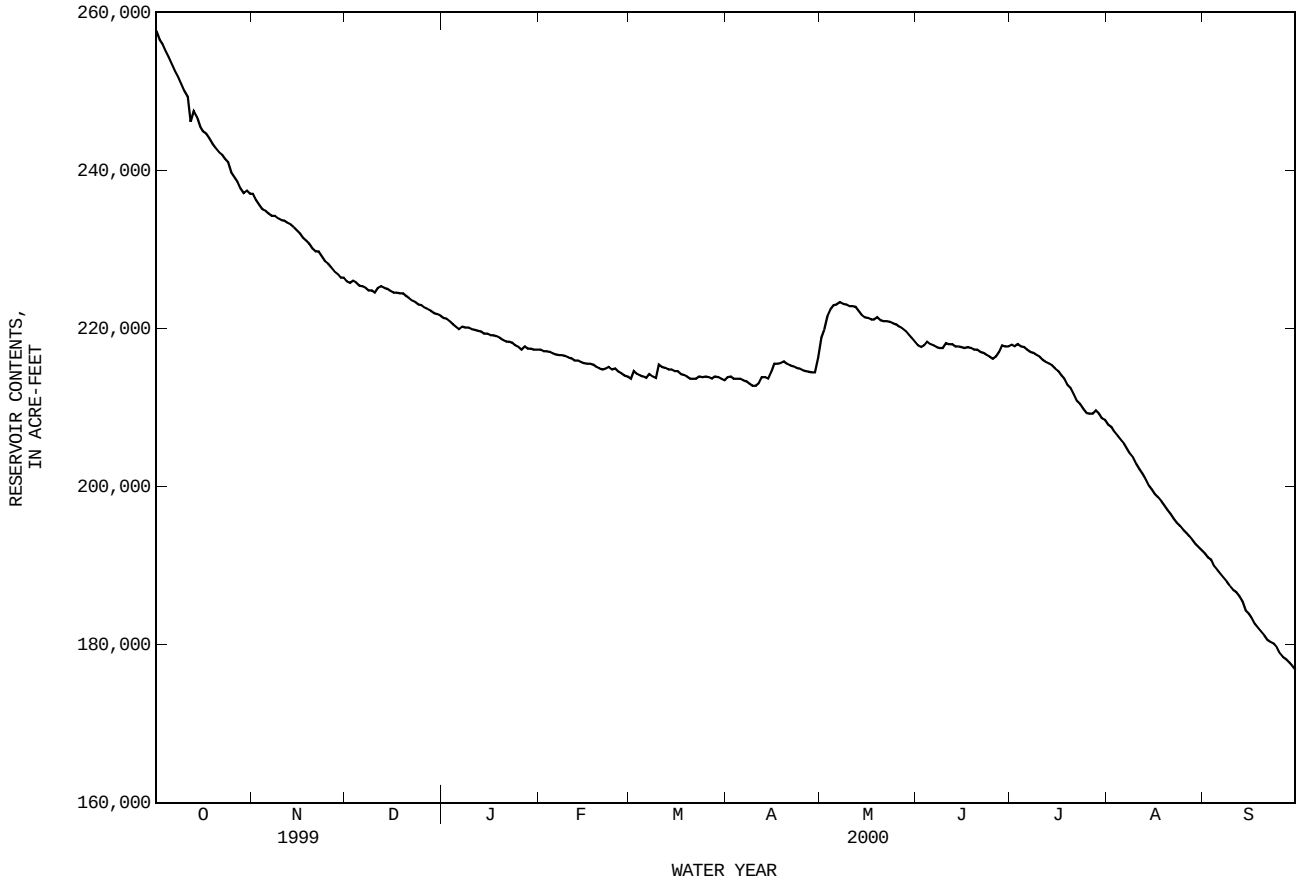
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257600	237000	225900	221300	217300	213600	213800	218800	217800	217900	207800	191500
2	256500	236200	225700	221200	217100	214600	213900	219800	217600	217700	207500	191000
3	255900	235600	226000	220900	217100	214200	213600	221500	217800	218000	206900	190700
4	255100	235000	225800	220500	217000	214000	213600	222400	218300	217700	206400	189900
5	254300	234800	225400	220200	216800	213900	213600	222900	218000	217600	205900	189400
6	253400	234500	225300	219900	216700	213700	213400	223000	217800	217300	205400	188900
7	252500	234200	225100	220200	216600	214200	213300	223300	217600	217000	204800	188400
8	251800	234200	224800	220100	216600	213900	213000	223100	217500	216900	204100	187900
9	250900	233900	224800	220100	216500	213700	212700	223000	217500	216600	203600	187400
10	250000	233700	224500	219900	216300	215400	212700	222800	218100	216400	202800	186900
11	249300	233600	225100	219800	216200	215100	213100	222800	218000	216000	202200	186600
12	246100	233300	225300	219700	215900	215000	213800	222700	218000	215700	201600	186100
13	247500	233100	225100	219600	215900	214800	213800	222200	217700	215500	200900	185500
14	246700	232800	225000	219300	215700	214800	213600	221700	217700	215300	200100	184300
15	245500	232400	224700	219300	215600	214600	214500	221400	217600	214900	199600	183900
16	244900	232000	224500	219100	215500	214600	215500	221300	217500	214600	199000	183300
17	244600	231400	224500	219100	215500	214200	215500	221100	217600	214000	198600	182600
18	244000	231100	224400	219000	215400	214100	215600	221100	217500	213600	198100	182100
19	243300	230700	224400	218800	215100	213900	215800	221400	217300	212800	197600	181600
20	242800	230100	224100	218500	214900	213600	215500	221000	217300	212400	197000	181100
21	242300	229700	223800	218300	214800	213600	215300	220900	217000	211600	196500	180600
22	242000	229700	223500	218300	214900	213600	215200	220900	216900	210800	195900	180300
23	241400	229100	223300	218200	215100	213900	215000	220800	216600	210400	195400	180100
24	241000	228500	223000	217800	214800	213800	214900	220600	216400	209800	195000	179600
25	239700	228200	222900	217600	214900	213900	214700	220500	216100	209300	194500	178900
26	239100	227700	222600	217300	214500	213800	214600	220200	216400	209200	194100	178400
27	238500	227200	222400	217700	214300	213600	214500	220000	217000	209200	193700	178100
28	237700	226900	222200	217400	214000	213900	214400	219700	217800	209600	193200	177700
29	237100	226400	221900	217400	213900	213800	214400	219200	217700	209200	192700	177300
30	237400	226400	221800	217300	---	213600	216300	218800	217700	208600	192300	176800
31	237000	---	221600	217300	---	213400	---	218300	---	208400	191900	---
MAX	257600	237000	226000	221300	217300	215400	216300	223300	218300	218000	207800	191500
MIN	237000	226400	221600	217300	213900	213400	212700	218300	216100	208400	191900	176800
(+)	823.79	822.67	822.16	821.69	821.32	821.26	821.58	821.80	821.74	820.70	818.81	817.01
(@)	-21800	-10600	-4800	-4300	-3400	-500	+2900	+2000	-600	-9300	-16500	-15100

CAL YR 1999 MAX 319200 MIN 221600 (@) -69000
WTR YR 2000 MAX 257600 MIN 176800 (@) -82000

(+) 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 sea level. Satellite telemeter at station with voice modem.

REMARKS.--No estimated daily contents. Records good. In 1954 the original lake was formed by an earthfill dam 2,000 ft across Big Sandy Creek for the city of Bowie. In 1985 a new reservoir dam was completed 2.0 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 mean sea level. The reservoirs are also connected by a 12-inch siphon pipe through the old dam. Both reservoirs employ the emergency spillway on the old reservoir to pass flood water above elevation of 927.0 ft. The principal spillway tower has a 24 ft uncontrolled weir at elevation 920.0 ft mean sea level. Conservation pool storage is 20,050 acre-ft. Data regarding the dam are given in the following table:

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

COOPERATION.--This gage is operated in cooperation with Tarrant Regional Water District (TRWD). Capacity table dated Mar 3, 1999 was provided by the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 24,200 acre-ft, May 27, 28, 30 1999, elevation, 917.41 ft; minimum contents, 14,330 acre-ft, Sept. 30, 2000, elevation, 910.30 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 24,200 acre-ft, May 27, 28, 30, elevation, 917.41 ft; minimum contents, 19,810 acre-ft, Sep 30, elevation, 914.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,810 acre-ft, Oct 1, elevation, 914.75 ft; minimum contents, 14,330 acre-ft, Sep 30, elevation, 910.30 ft.

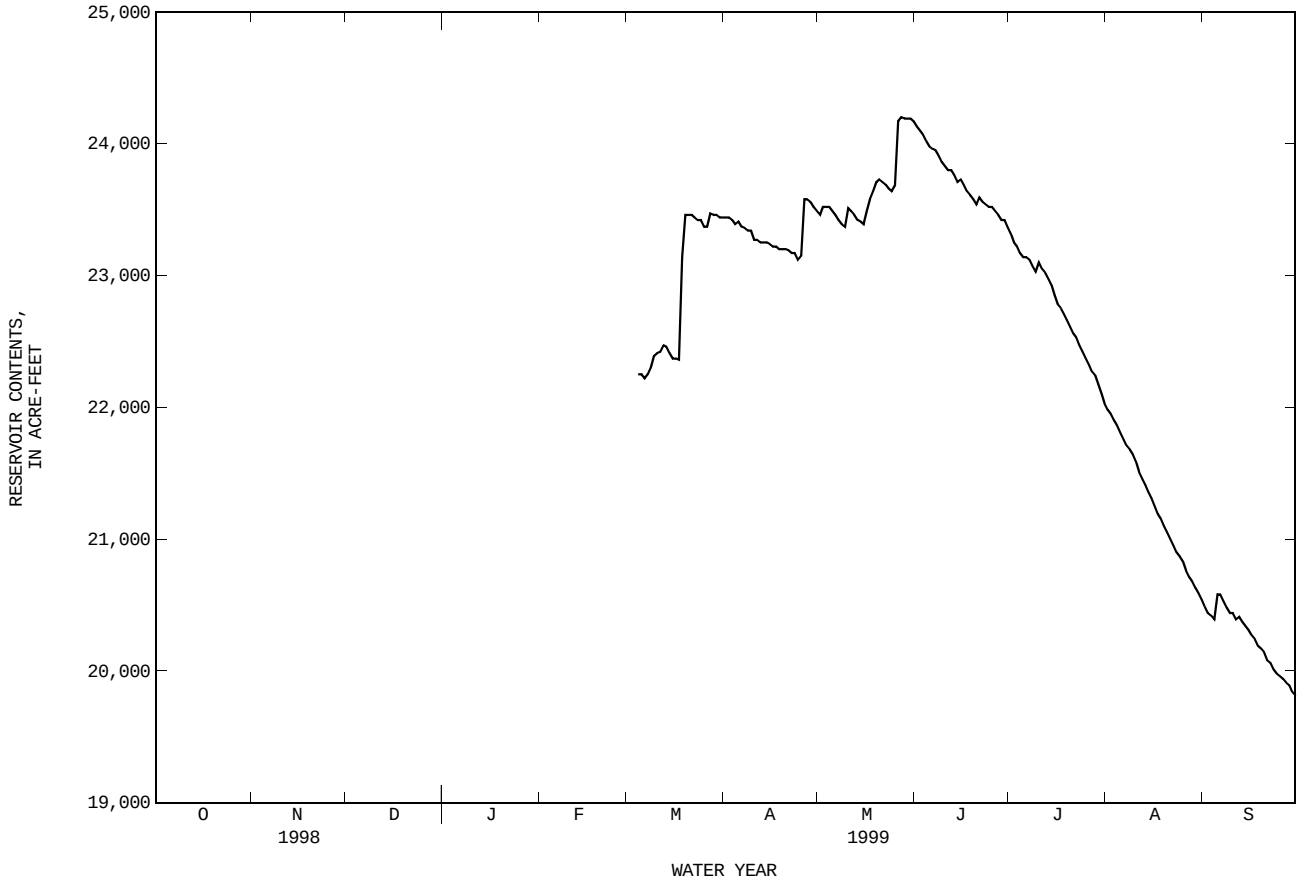
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	23440	23460	24130	23320	21980	20490
2	---	---	---	---	---	---	23440	23520	24100	23250	21950	20440
3	---	---	---	---	---	---	23420	23520	24070	23220	21900	20420
4	---	---	---	---	---	22250	23390	23520	24020	23170	21860	20390
5	---	---	---	---	---	22250	23410	23490	23980	23140	21810	20580
6	---	---	---	---	---	22220	23370	23460	23960	23140	21760	20580
7	---	---	---	---	---	22250	23360	23420	23950	23120	21710	20530
8	---	---	---	---	---	22300	23340	23390	23910	23070	21680	20480
9	---	---	---	---	---	22390	23340	23370	23860	23030	21640	20440
10	---	---	---	---	---	22410	23270	23510	23830	23100	21590	20440
11	---	---	---	---	---	22420	23270	23490	23800	23050	21510	20390
12	---	---	---	---	---	22470	23250	23460	23800	23020	21460	20410
13	---	---	---	---	---	22460	23250	23420	23760	22980	21410	20370
14	---	---	---	---	---	22410	23250	23410	23710	22930	21360	20340
15	---	---	---	---	---	22370	23240	23390	23730	22850	21310	20310
16	---	---	---	---	---	22370	23220	23490	23690	22780	21250	20270
17	---	---	---	---	---	22360	23220	23580	23640	22750	21190	20240
18	---	---	---	---	---	23140	23200	23640	23610	22710	21150	20190
19	---	---	---	---	---	23460	23200	23710	23580	22660	21100	20170
20	---	---	---	---	---	23460	23200	23730	23540	22610	21050	20140
21	---	---	---	---	---	23460	23190	23710	23590	22560	21000	20080
22	---	---	---	---	---	23440	23170	23690	23560	22530	20950	20060
23	---	---	---	---	---	23420	23170	23660	23540	22470	20900	20010
24	---	---	---	---	---	23420	23120	23640	23520	22420	20870	19980
25	---	---	---	---	---	23370	23150	23680	23520	22370	20830	19960
26	---	---	---	---	---	23370	23580	24170	23490	22320	20760	19940
27	---	---	---	---	---	23470	23580	24200	23460	22270	20710	19910
28	---	---	---	---	---	23460	23560	24190	23420	22240	20680	19890
29	---	---	---	---	---	23460	23520	24190	23420	22170	20630	19840
30	---	---	---	---	---	23440	23490	24190	23370	22100	20590	19810
31	---	---	---	---	---	23440	---	24170	---	22030	20540	---
MAX	---	---	---	---	---	---	23580	24200	24130	23320	21980	20580
MIN	---	---	---	---	---	---	23120	23370	23370	22030	20540	19810
(+)						916.96	916.99	917.39	916.92	916.13	915.25	914.75
(@)							+50	+680	-800	-1340	-1490	-730

WTR YR 1999 MAX 24200 MIN 19810

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

08043700 LAKE AMON G. CARTER NEAR BOWIE, TX--Continued



08043700 LAKE AMON G. CARTER NEAR BOWIE, TX--Continued

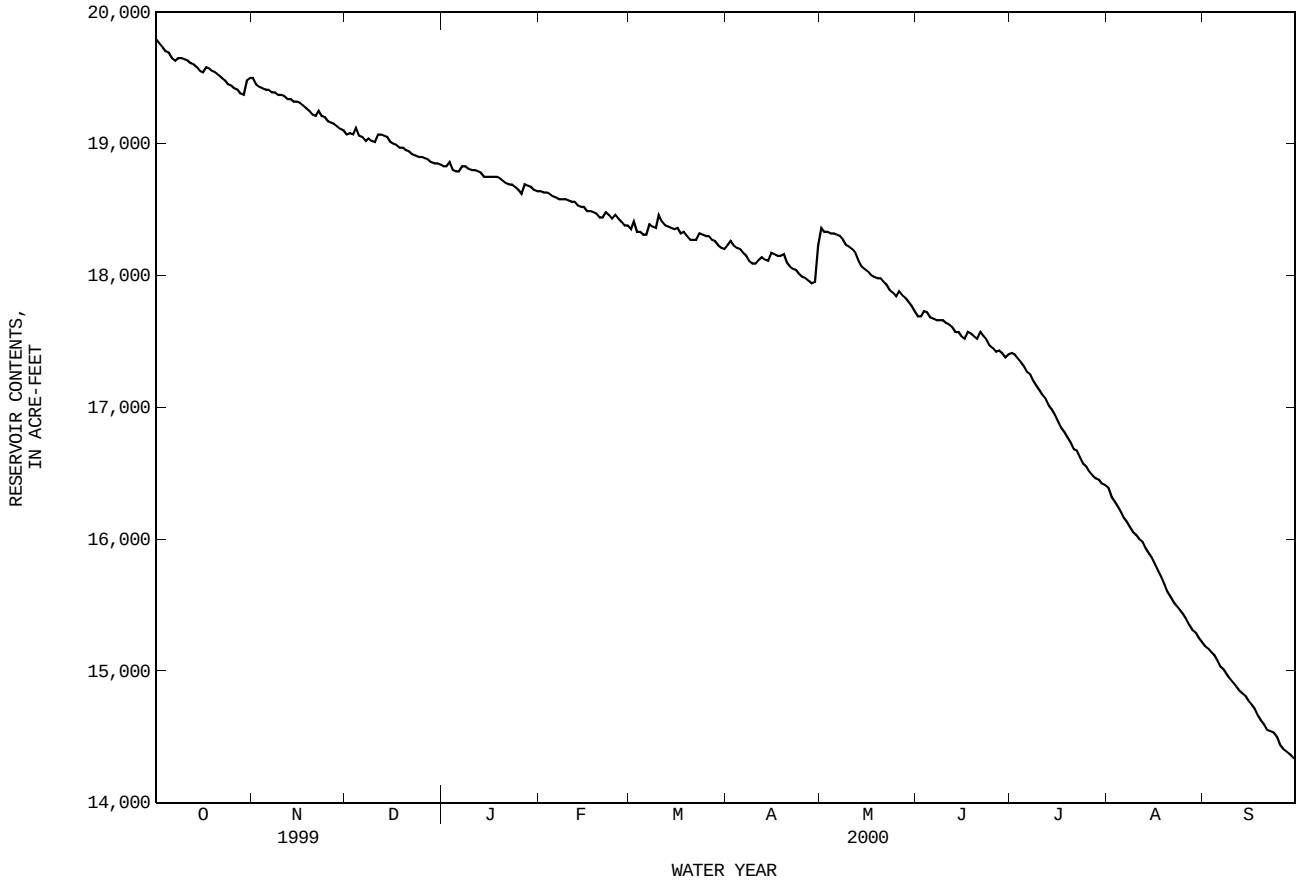
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19790	19500	19070	18830	18640	18350	18230	18360	17690	17410	16390	15190
2	19760	19450	19080	18830	18630	18410	18260	18330	17690	17400	16320	15170
3	19730	19430	19070	18860	18630	18330	18230	18330	17730	17370	16290	15140
4	19700	19420	19120	18800	18620	18330	18210	18320	17720	17340	16250	15120
5	19690	19410	19060	18790	18600	18310	18200	18320	17680	17310	16210	15080
6	19650	19410	19050	18790	18590	18310	18170	18310	17670	17270	16160	15030
7	19630	19390	19020	18830	18580	18390	18150	18300	17660	17250	16130	15010
8	19650	19390	19040	18830	18580	18370	18110	18270	17660	17200	16090	14970
9	19650	19370	19020	18810	18580	18360	18090	18230	17660	17160	16050	14940
10	19640	19370	19010	18800	18570	18460	18090	18220	17640	17130	16030	14910
11	19630	19360	19070	18800	18560	18410	18120	18200	17630	17090	16000	14880
12	19610	19340	19070	18790	18560	18380	18140	18170	17610	17060	15980	14850
13	19600	19340	19060	18780	18530	18370	18120	18110	17570	17010	15930	14830
14	19580	19320	19050	18750	18520	18360	18110	18070	17570	16980	15890	14810
15	19550	19320	19010	18750	18520	18350	18170	18050	17540	16940	15860	14770
16	19540	19310	19000	18750	18490	18360	18160	18030	17520	16890	15810	14740
17	19580	19290	18990	18750	18490	18320	18150	18000	17570	16840	15760	14710
18	19570	19270	18970	18750	18480	18330	18150	17990	17560	16810	15710	14660
19	19550	19250	18970	18740	18470	18300	18160	17980	17540	16770	15660	14620
20	19540	19220	18950	18720	18440	18270	18100	17980	17520	16730	15600	14590
21	19520	19210	18940	18700	18440	18270	18070	17950	17570	16680	15560	14550
22	19500	19250	18920	18690	18480	18270	18050	17930	17540	16670	15520	14540
23	19480	19210	18910	18690	18460	18320	18040	17890	17510	16620	15490	14530
24	19450	19200	18900	18670	18430	18310	18010	17870	17470	16570	15460	14500
25	19440	19170	18900	18650	18460	18300	17990	17840	17450	16550	15430	14440
26	19420	19160	18890	18620	18430	18300	17980	17880	17420	16510	15390	14410
27	19410	19150	18880	18690	18410	18270	17960	17850	17430	16480	15350	14390
28	19380	19130	18860	18680	18380	18260	17940	17830	17410	16460	15310	14370
29	19370	19110	18850	18670	18380	18230	17950	17800	17380	16450	15290	14350
30	19480	19100	18850	18650	---	18210	18230	17770	17400	16420	15250	14330
31	19500	---	18840	18640	---	18200	---	17730	---	16410	15220	---
MAX	19790	19500	19120	18860	18640	18460	18260	18360	17730	17410	16390	15190
MIN	19370	19100	18840	18620	18380	18200	17940	17730	17380	16410	15220	14330
(+)	914.50	914.17	913.96	913.80	913.59	913.44	913.47	913.06	912.79	911.99	911.02	910.30
(@)	-310	-400	-260	-200	-260	-180	+30	-500	-330	-990	-1190	-890

WTR YR 2000 MAX 19790 MIN 14330 (@) -5480

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

08043700 LAKE AMON G. CARTER NEAR BOWIE, TX--Continued



08043900 LYNDON B. JOHNSON NATIONAL GRASSLANDS NEAR ALVORD, TX
(National Atmospheric Deposition Program)

PRECIPITATION WATER-QUALITY RECORDS

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

OWNER.--U.S. Geological Survey.

PERIOD OF RECORD.--Jul 1984 to current year.

INSTRUMENTATION.--Wet/dry precipitation collector, weighing bucket type rain gage and event recorder, and a National Weather Service 8-in rain gage as backup.

EXTREMES FOR CURRENT YEAR.--Maximum field pH, 5.9, Apr 11-18; minimum field pH, 4.5, Jan 25-Feb 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS P (MG/L) (83108)
OCT 26-NOV 02	0835	7	5.7	.424	.022	.020	.072	.109	.15	.10	.73	.001
NOV 30-DEC 07	0815	24	6.9	2.52	.114	.101	.518	.358	.29	.76	2.27	.001
DEC 07-14	0820	12	6.1	1.01	.043	.051	.173	.270	.23	.28	1.36	.001
JAN 25-FEB 02	0925	28	4.5	.701	.036	.085	.138	.295	.41	.20	2.82	<.003
FEB 16-22	0800	30	--	1.74	.257	.215	1.45	.692	.74	2.28	4.01	.001
FEB 22-29	0840	19	6.6	1.55	.138	.176	.462	.381	.36	.70	2.25	.001
FEB 29-MAR 07	0825	12	5.8	.529	.046	.106	.277	.023	.20	.36	1.60	.001
MAR 07-14	0825	17	6.7	1.63	.089	.152	.347	.295	.24	.43	1.79	.001
MAR 14-21	0735	29	--	1.20	.051	.050	.112	1.03	1.15	.16	3.28	.001
MAR 28-APR 04	0825	18	--	1.92	.110	.192	.171	.544	.43	.16	2.38	.001
APR 11-18	0850	11	5.9	.698	.042	.057	.122	.311	.25	.16	1.10	.001
APR 25-MAY 02	0845	22	6.1	.708	.061	.113	.291	.637	.44	.38	2.06	.001
MAY 02-09	0730	19	6.6	.815	.087	.285	.325	.567	.63	.44	2.12	.001
MAY 16-23	0725	8	5.5	.281	.029	.107	.050	.085	.14	.09	.38	.001
MAY 23-30	1420	12	5.8	.615	.133	1.00	.545	1.55	.28	.83	2.00	.158
MAY 30-JUN 06	1205	7	5.1	.256	.015	.031	.078	.178	.25	.13	.57	.001
JUN 06-13	0800	7	5.0	.081	.016	.009	.102	.046	.11	.16	.38	.001
JUN 13-21	0905	21	6.5	.679	.067	.247	.478	.521	.19	.84	.84	.029
JUN 22-27	0830	21	--	2.22	.115	.540	.529	.070	.91	.82	1.75	.071
JUN 27-JUL 05	0705	22	6.8	.889	.091	.287	.340	.964	.46	.60	1.37	.073
JUL 11-18	0905	25	7.1	2.49	.080	.096	.279	.669	.50	.38	1.13	.001
JUL 18-25	0835	24	6.3	2.05	.110	.098	.326	.606	.94	.56	2.26	.001
SEP 05-12	0815	15	6.3	1.26	.041	.141	.116	.373	.38	.26	2.13	.001
SEP 19-26	0923	30	5.4	1.85	.145	.065	.852	.228	.68	1.24	3.92	.001

08043900 LYNDON B. JOHNSON NATIONAL GRASSLANDS NEAR ALVORD, TX--Continued
(National Atmospheric Deposition Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CALCIUM ATM DEP WET DIS (MG/M2) (82933)	MAG-NESIUM ATM DEP WET DIS (MG/M2) (83003)	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)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS P (MG/M2) (83109)	HY-DROGEN ION ATM DEP WET DIS (MG/M2) (82975)	VOLUME ATM DEP WET (L) (83177)
OCT 26-NOV 02	13.3	.7	.6	2.3	3.41	4.7	3.1	22.9	M	.1	2.130
NOV 30-DEC 07	63.8	2.9	2.6	13.1	9.06	7.2	19.2	57.5	M	.0	1.719
DEC 07-14	34.9	1.5	1.8	6.0	7.27	7.9	9.7	46.9	M	M	2.348
JAN 25-FEB 02	11.2	.6	1.4	2.2	4.68	6.6	3.2	45.3	M	.4	1.896
FEB 16-22	.9	.1	.1	.8	.362	.4	1.2	.0	2.1	35.6	.356
FEB 22-29	20.4	1.8	2.3	6.1	4.97	4.7	9.2	29.7	M	.0	.894
FEB 29-MAR 07	11.8	1.0	2.4	6.2	.575	4.5	8.0	35.8	M	M	1.516
MAR 07-14	70.3	3.8	6.6	15.0	12.7	10.4	18.5	77.2	M	M	2.926
MAR 14-21	3.0	.1	.1	.3	2.61	2.9	.4	8.3	M	M	1.725
MAR 28-APR 04	6.2	.4	.6	.6	1.77	1.4	.5	7.7	M	.0	.220
APR 11-18	25.7	1.5	2.1	4.5	11.3	9.3	5.9	40.5	M	M	2.498
APR 25-MAY 02	35.8	3.1	5.7	14.7	32.5	22.2	19.1	104	.1	M	3.436
MAY 02-09	16.1	1.7	5.6	6.4	11.2	12.3	8.7	41.7	M	M	1.337
MAY 16-23	4.9	.5	1.9	.9	1.52	2.5	1.6	6.7	M	M	1.175
MAY 23-30	6.4	1.4	10.4	5.6	16.0	2.9	8.6	20.7	1.6	.0	.703
MAY 30-JUN 06	5.6	.3	.7	1.7	3.93	5.5	2.9	12.3	M	.1	1.470
JUN 06-13	2.5	.5	.3	3.1	1.52	3.3	4.9	11.6	M	.2	2.050
JUN 13-21	17.2	1.7	6.3	12.1	13.2	4.8	21.3	21.3	.8	M	1.720
JUN 22-27	1.7	.1	.4	.4	.054	.7	.6	1.4	.2	--	.050
JUN 27-JUL 05	12.0	1.2	3.9	4.6	13.1	6.2	8.1	18.5	1.0	.0	.919
JUL 11-18	29.4	.9	1.1	3.3	7.87	5.9	4.5	13.3	M	.0	8.000
JUL 18-25	5.5	.3	.3	.9	1.64	2.7	1.5	6.1	M	.0	1.830
SEP 05-12	6.7	.2	.8	.6	2.00	2.0	1.4	11.4	M	.0	.362
SEP 19-26	3.1	.2	.1	1.4	.918	1.1	2.1	M	.0	.0	.114

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 Sep 1995. Biochemical data: Apr 1993 to Sep 1995. Sediment data: Apr 1993 to Sep 1995.

REVISED RECORDS.--WSP 1148: Drainage area.

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

REMARKS.--No estimated daily discharges. Records good except those for daily discharges below 1 ft^3/s, which are fair. Since May 1, 1956, runoff from 100 mi^2 above this station is affected at times by storage in Lake Amon G. Carter (station 08043700, conservation pool storage 20,050 acre-ft), 30 mi upstream. 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 was also affected at times by discharge from the flood-detention pools of 19 floodwater-retarding structures with a combined capacity of 11,430 acre-ft. 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 Jun 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 Jun 10, 1941, at site and datum then in use.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.18	.01	.11	81	.00	.00	.00	.00
2	.00	.00	.00	.00	.13	1.8	.04	23	.00	.00	.00	.00
3	.00	.00	.00	.00	.08	.79	.18	4.3	.00	.00	.00	.00
4	.00	.00	.00	.00	.03	.57	.18	1.2	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.27	.21	.55	.00	.00	.00	.00
6	.00	.00	.03	.00	.01	.24	.18	.40	.00	.00	.00	.00
7	.00	.00	.00	.08	.14	.24	.10	.32	.00	.00	.00	.00
8	.00	.00	.00	.45	.10	.42	.00	.24	.00	.00	.00	.00
9	.00	.00	.00	.30	.06	.19	.00	.19	.00	.00	.00	.00
10	.00	.00	.00	.14	.15	13	.00	.15	.07	.00	.00	.00
11	.00	.00	.00	.07	.12	2.7	.00	.14	.00	.00	.00	.00
12	.00	.00	.07	.05	.14	.32	.14	.11	.00	.00	.00	.00
13	.00	.00	.00	.07	.17	.24	.32	.00	.00	.00	.00	.00
14	.00	.00	.00	.01	.22	.20	.18	.00	.00	.00	.00	.00
15	.00	.00	.00	.03	.22	.20	.05	.00	.00	.00	.00	.00
16	.00	.00	.00	.13	.20	.20	.73	.00	.00	.00	.00	.00
17	.00	.00	.00	.12	.22	.20	.50	.00	.00	.00	.00	.00
18	.00	.00	.00	.07	.24	.24	.19	.00	.00	.00	.00	.00
19	.00	.00	.00	.03	.03	.31	.08	.03	.00	.00	.00	.00
20	.00	.00	.00	.01	.01	.32	.00	.02	.00	.00	.00	.00
21	.00	.00	.00	.02	.07	.27	.00	.16	.00	.00	.00	.00
22	.00	.00	.00	.11	.24	.29	.00	.13	.00	.00	.00	.00
23	.00	.00	.00	.09	.40	.34	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.06	.17	.30	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.03	.18	.17	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.07	.01	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.24	.01	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.20	.01	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.11	.03	.00	.00	.00	.00	.00	.00	.00
30	.05	.00	.00	.13	---	.00	.13	.00	.00	.00	.00	.00
31	.00	---	.00	.23	---	.10	---	.00	---	.00	.00	---
TOTAL	0.05	0.00	0.10	2.78	3.63	23.94	3.32	111.94	0.07	0.00	0.00	0.00
MEAN	.002	.000	.003	.090	.13	.77	.11	3.61	.002	.000	.000	.000
MAX	.05	.00	.07	.45	.40	13	.73	81	.07	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.1	.00	.2	5.5	7.2	47	6.6	222	.1	.00	.00	.00

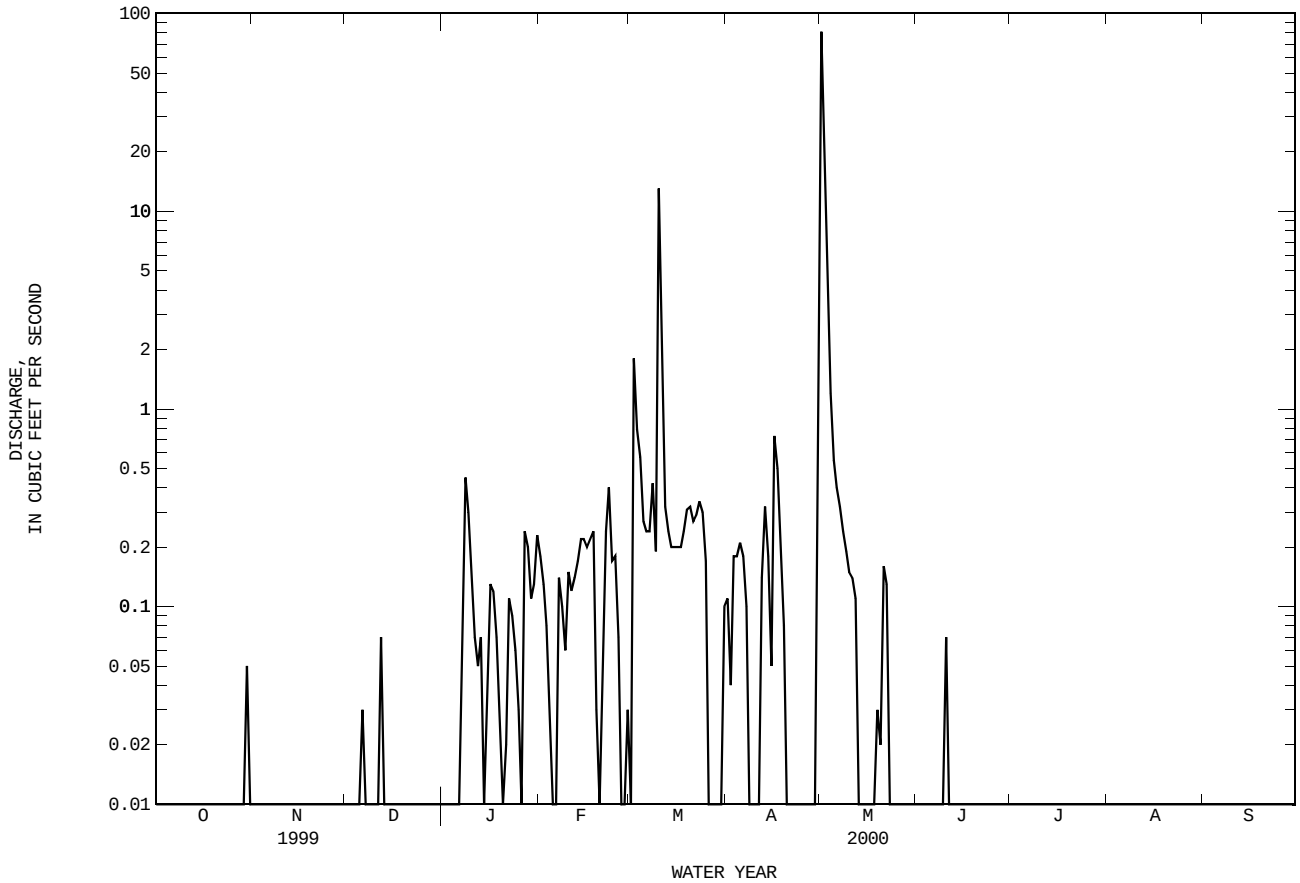
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2000z, BY WATER YEAR (WY)

MEAN	101	40.2	40.2	28.9	44.8	85.8	102	219	133	19.2	10.8	27.7
MAX	1829	298	743	257	272	570	1175	1284	1250	181	230	491
(WY)	1982	1965	1992	1992	1997	1977	1957	1990	1989	1973	1973	1962
MIN	.000	.000	.000	.000	.13	.000	.000	.002	.000	.000	.000	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1956 - 2000z	
ANNUAL TOTAL	1464.64		145.83			
ANNUAL MEAN	4.01		.40		71.2	
HIGHEST ANNUAL MEAN					317	1982
LOWEST ANNUAL MEAN					.40	2000
HIGHEST DAILY MEAN	173	Mar 19	81	May 1	23800	Oct 13 1981
LOWEST DAILY MEAN	.00	Jul 3	.00	Oct 1	.00	Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 3	.00	Oct 1	.00	Oct 5 1955
INSTANTANEOUS PEAK FLOW			239	May 1	g45000	Oct 13 1981
INSTANTANEOUS PEAK STAGE			4.85	May 1	g14.78	Oct 13 1981
ANNUAL RUNOFF (AC-FT)	2910		289		51600	
10 PERCENT EXCEEDS	6.5		.22		89	
50 PERCENT EXCEEDS	.09		.00		6.1	
90 PERCENT EXCEEDS	.00		.00		.00	

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 sea level. 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 by Bridgeport Reservoir (station 08043000, conservation pool storage 386,420 acre-ft) 25 mi upstream and by Lake Amon G. Carter (station 08043700, conservation pool storage 20,050 acre-ft). 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 with a total combined detention capacity of 24,450 acre-ft in the Big Sandy and Salt Creek drainage basins. No known diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

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

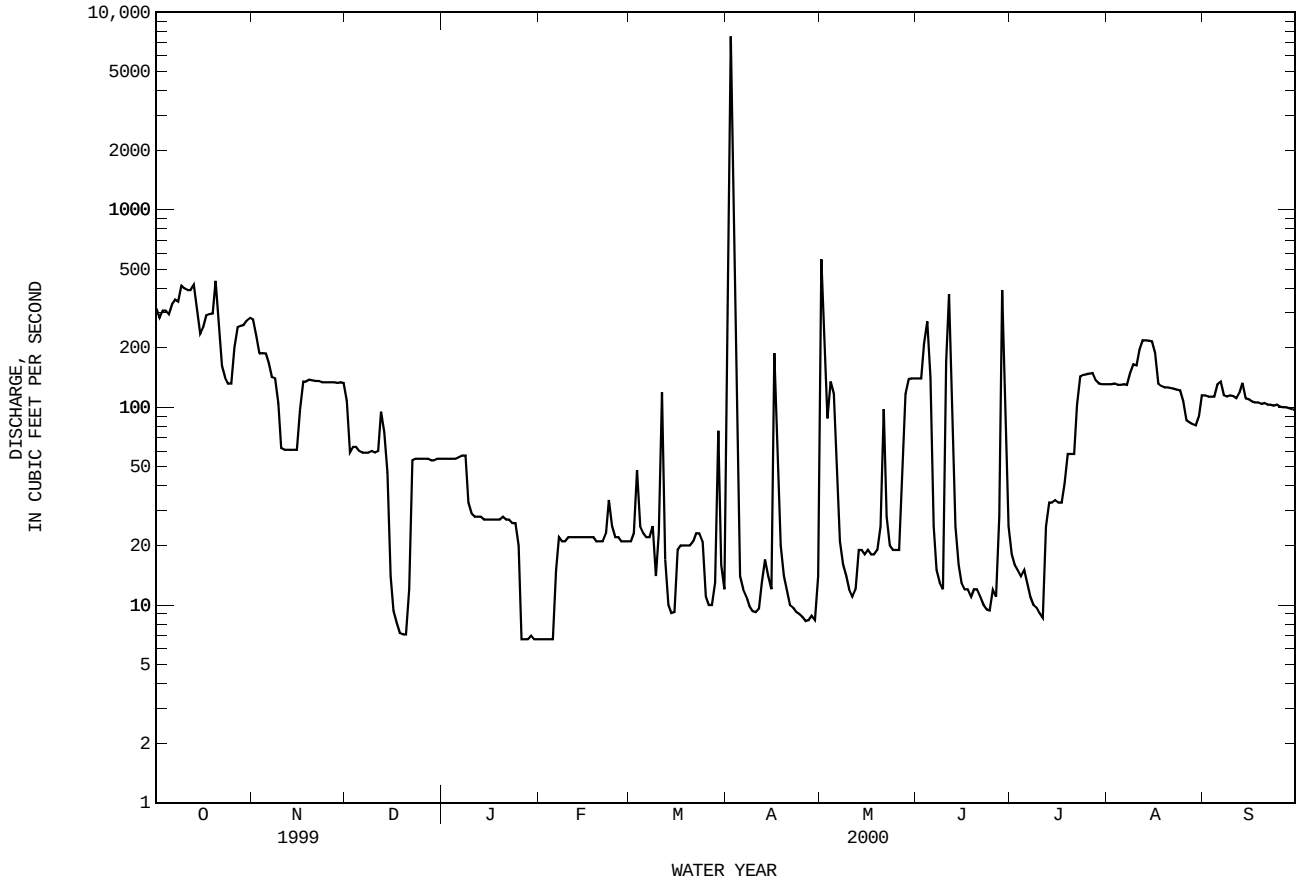
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316	278	108	55	6.7	21	254	561	140	18	131	115
2	283	231	59	55	6.7	23	7510	214	140	16	131	113
3	308	187	63	55	6.7	48	496	88	211	15	132	113
4	308	188	63	55	6.7	25	71	135	272	14	130	113
5	295	187	60	55	6.7	23	14	117	141	15	130	131
6	331	168	59	56	15	22	12	49	25	13	131	135
7	350	142	59	57	22	22	11	21	15	11	130	115
8	343	140	59	57	21	25	9.9	16	13	10	149	113
9	413	105	60	33	21	14	9.3	14	12	9.7	165	115
10	399	62	59	29	22	23	9.2	12	170	9.1	163	114
11	392	61	60	28	22	119	9.6	11	373	8.6	195	111
12	391	61	95	28	22	17	13	12	67	25	218	119
13	415	61	75	28	22	10	17	19	25	33	218	133
14	312	61	47	27	22	9.1	14	19	16	33	217	111
15	235	61	14	27	22	9.2	12	18	13	34	216	110
16	253	98	9.3	27	22	19	188	19	12	33	188	107
17	292	135	8.1	27	22	20	62	18	12	33	132	106
18	296	135	7.2	27	22	20	20	18	11	41	128	106
19	298	138	7.1	27	21	20	14	19	12	58	126	104
20	437	137	7.1	28	21	20	12	25	12	58	126	105
21	272	136	12	27	21	21	10	98	11	58	125	103
22	162	136	54	27	23	23	9.7	28	10	103	124	103
23	141	134	55	26	34	23	9.2	20	9.5	143	123	102
24	132	134	55	26	25	21	9.0	19	9.4	146	122	103
25	132	134	55	20	22	11	8.7	19	12	147	107	101
26	202	134	55	6.7	22	10	8.3	19	11	148	86	100
27	254	134	55	6.7	21	10	8.4	52	28	149	84	100
28	258	133	54	6.7	21	13	8.8	117	392	137	82	99
29	261	134	54	7.0	21	76	8.4	139	76	132	81	98
30	275	133	55	6.7	---	16	14	140	25	131	90	96
31	283	---	55	6.7	---	12	---	140	---	131	115	---
TOTAL	9039	3978	1537.8	947.5	562.5	745.3	8852.5	2196	2275.9	1912.4	4295	3294
MEAN	292	133	49.6	30.6	19.4	24.0	295	70.8	75.9	61.7	139	110
MAX	437	278	108	57	34	119	7510	561	392	149	218	135
MIN	132	61	7.1	6.7	6.7	9.1	8.3	11	9.4	8.6	81	96
AC-FT	17930	7890	3050	1880	1120	1480	17560	4360	4510	3790	8520	6530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

MEAN	302	189	179	107	141	226	270	707	466	200	221	180
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	.75	.10	.26	.59	25.2	2.76	7.11	.025	.23
(WY)	1957	1984	1953	1956	1953	1955	1955	1959	1953	1979	1980	1956

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000	
ANNUAL TOTAL	43659.8		39635.9			
ANNUAL MEAN	120		108		267	
HIGHEST ANNUAL MEAN					1094	1982
LOWEST ANNUAL MEAN					58.6	1953
HIGHEST DAILY MEAN	939	May 31	7510	Apr 2	38800	Oct 14 1981
LOWEST DAILY MEAN	7.1	Dec 19	6.7	Jan 26	.00	Aug 6 1948
ANNUAL SEVEN-DAY MINIMUM	9.3	Dec 15	6.7	Jan 30	.00	Sep 25 1952
INSTANTANEOUS PEAK FLOW			23400	Apr 2	60400	Oct 14 1981
INSTANTANEOUS PEAK STAGE			21.84	Apr 2	25.87	Oct 14 1981
ANNUAL RUNOFF (AC-FT)	86600		78620		193100	
10 PERCENT EXCEEDS	259		218		485	
50 PERCENT EXCEEDS	78		55		67	
90 PERCENT EXCEEDS	14		10		4.2	

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 Sep 1995 (annual maximum), Oct 1995 to current year.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. No flow at times. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 3	2315	8,600	15.26	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.06	.38	.21	.21	.19	3.6	145	.07	1.2	.02	.00
2	.00	.07	.42	.22	.20	50	21	12	.07	.67	.02	.00
3	.00	.08	.44	.24	.19	53	11	115	694	.43	.02	.00
4	.00	.09	.45	.22	.17	8.2	4.0	29	527	.28	.01	.00
5	.00	.10	.45	.19	.17	3.1	2.5	4.7	30	.21	.01	.00
6	.00	.10	.45	.19	.17	2.2	2.2	2.2	3.0	.16	.01	.00
7	.00	.12	.39	.25	.19	2.1	2.2	1.0	.56	.13	.01	.00
8	.00	.15	.40	1.2	.19	2.8	1.8	.61	.34	.11	.01	.00
9	.00	.18	.58	.70	.18	2.9	1.6	.48	e.26	.09	.01	.00
10	.00	.20	.55	.28	.20	1.7	1.6	.41	e53	.08	.01	.00
11	.00	.22	.68	.22	.19	1.5	2.0	.42	e40	.07	.00	.00
12	.00	.22	7.9	.20	.19	1.4	11	.35	16	.06	.00	.00
13	.00	.21	2.2	.18	.19	1.3	6.4	.21	3.9	.05	.00	.00
14	.00	.26	.39	.18	.18	1.6	3.2	.18	1.4	.04	.00	.00
15	.00	.25	.22	.17	.17	2.1	2.4	.23	4.5	.05	.00	.00
16	.00	.25	.16	.17	.17	2.5	46	.23	1.1	.04	.00	.00
17	.00	.25	.16	.20	.18	2.1	13	.19	.83	.03	.00	.00
18	.00	.25	.18	.20	.16	1.9	4.4	.23	1.4	.02	.00	.00
19	.00	.26	.19	.20	.16	1.8	2.4	.31	.92	.02	.00	.00
20	.00	.31	.19	.18	.16	1.8	1.8	13	.71	.02	.00	.00
21	.00	.36	.18	.18	.14	1.8	1.4	1.8	.52	.02	.00	.00
22	.00	.36	.18	.17	.30	2.9	1.3	.68	.42	.02	.00	.00
23	.00	.43	.16	.18	10	3.2	1.4	.40	.34	.02	.00	.00
24	.00	.37	.17	.18	.67	4.1	1.2	.25	.29	.02	.00	.00
25	.00	.39	.18	.18	.27	2.7	1.1	.20	.24	.01	.00	.00
26	.00	.38	.20	.17	.19	12	1.1	.14	.22	.01	.00	.00
27	.00	.43	.20	.30	.17	5.5	1.2	.10	117	.02	.00	.00
28	.00	.39	.20	.55	.15	2.7	1.2	.10	83	.02	.00	.00
29	.00	.36	.22	.34	.14	21	1.9	.09	6.4	.02	.00	.00
30	.04	.38	.22	.23	---	6.6	4.9	.10	1.2	.02	.00	.00
31	.05	---	.23	.22	---	3.0	---	.08	---	.02	.00	---
TOTAL	0.09	7.48	18.92	8.30	15.65	209.69	160.8	329.69	1588.69	3.96	0.13	0.00
MEAN	.003	.25	.61	.27	.54	6.76	5.36	10.6	53.0	.13	.004	.000
MAX	.05	.43	7.9	1.2	10	53	46	145	694	1.2	.02	.00
MIN	.00	.06	.16	.17	.14	.19	1.1	.08	.07	.01	.00	.00
AC-FT	.2	15	38	16	31	416	319	654	3150	7.9	.3	.00

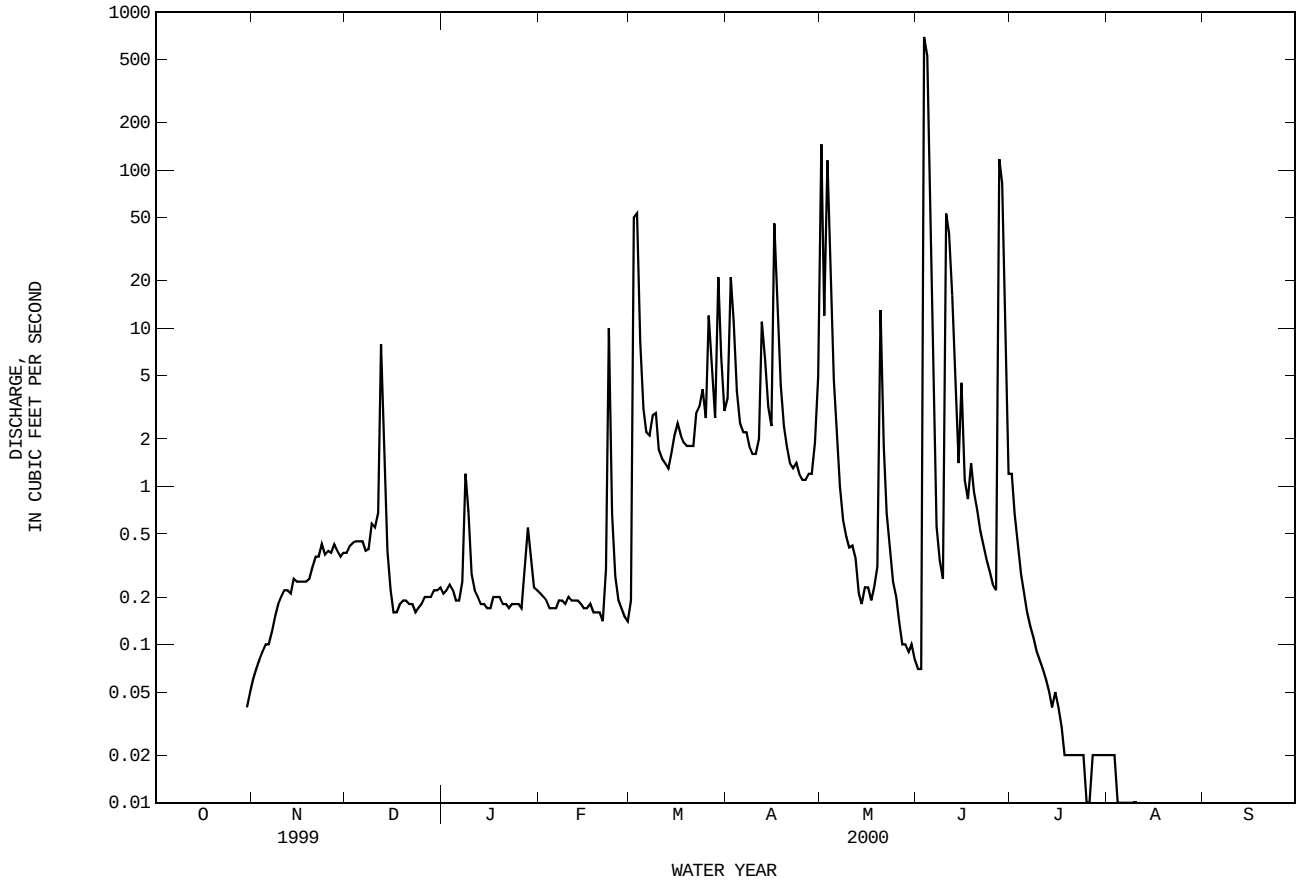
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	4.16	25.8	9.18	6.96	41.8	47.2	23.6	28.1	20.9	4.76	5.35	1.88
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	.003	.25	.61	.27	.54	6.76	5.36	1.43	.84	.13	.004	.000
(WY)	2000	2000	2000	2000	2000	2000	2000	1996	1999	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	2894.36		2343.40			
ANNUAL MEAN	7.93		6.40		18.1	
HIGHEST ANNUAL MEAN					53.7	1997
LOWEST ANNUAL MEAN					3.98	1996
HIGHEST DAILY MEAN	761	Mar 11	694	Jun 3	2350	Mar 16 1998
LOWEST DAILY MEAN	.00	Sep 4	.00	Oct 1	.00	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 4	.00	Oct 1	.00	Sep 4 1999
INSTANTANEOUS PEAK FLOW			8600	Jun 3	8600	Jun 3 2000
INSTANTANEOUS PEAK STAGE			15.26	Jun 3	21.21	Oct 19 1993
ANNUAL RUNOFF (AC-FT)	5740		4650		13140	
10 PERCENT EXCEEDS	7.3		3.7		24	
50 PERCENT EXCEEDS	.55		.19		3.0	
90 PERCENT EXCEEDS	.00		.00		.14	

e Estimated

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 right 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 sea level. 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.--No estimated daily contents. Records good. 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 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 dated Oct 1, 1988 was furnished by Tarrant Regional Water District.

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, 140,900 acre-ft, Nov 2, elevation, 644.55 ft; minimum contents, 101,600 acre-ft, Sep 30, elevation, 638.95 ft.

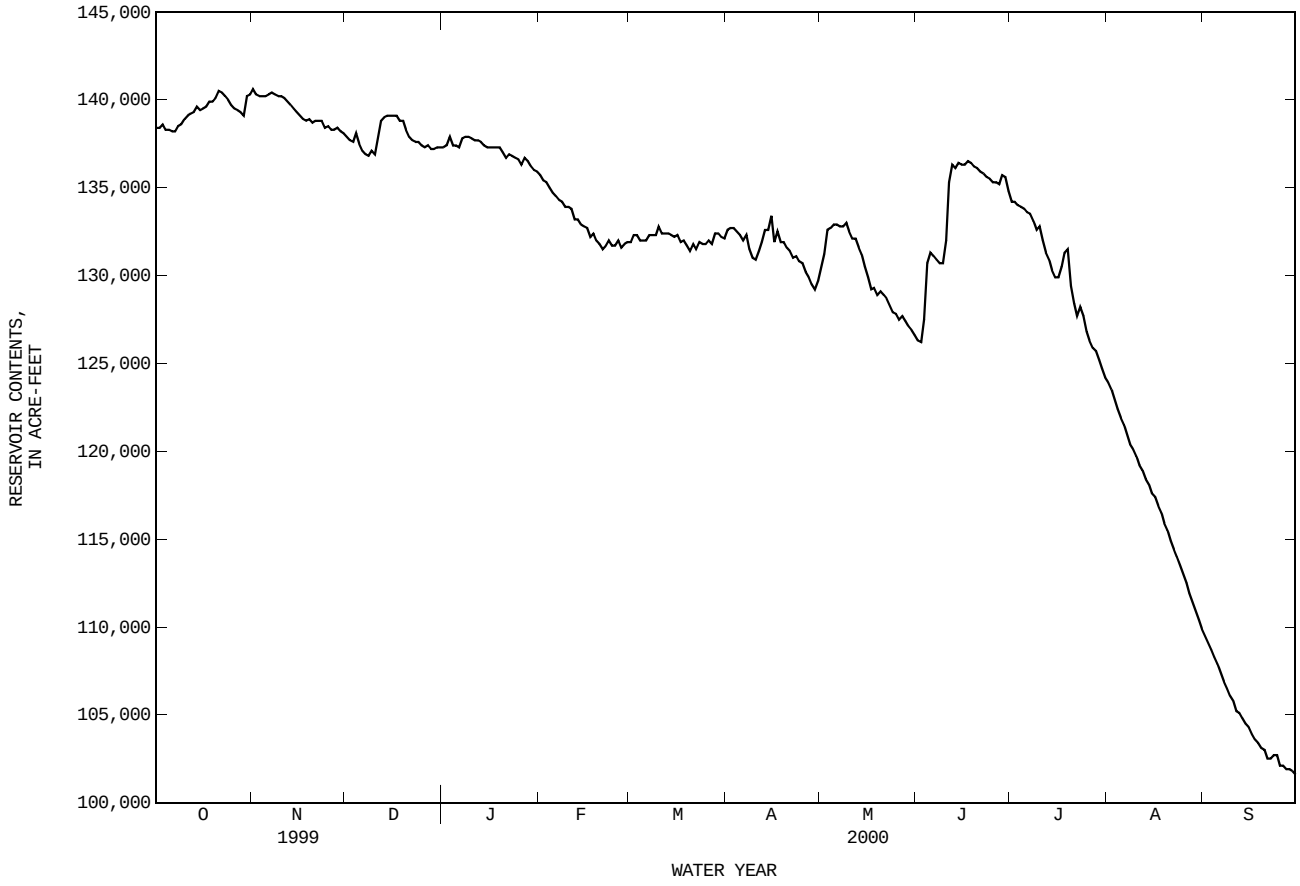
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138400	140600	137900	137300	135700	131900	132600	130500	126300	134200	123900	109500
2	138400	140300	137700	137400	135400	132300	132700	131200	126200	134200	123500	109100
3	138600	140200	137600	137900	135300	132300	132700	132600	127500	134000	123000	108700
4	138300	140200	138100	137400	135000	132000	132500	132700	130700	133900	122400	108300
5	138300	140200	137500	137400	134700	132000	132300	132900	131300	133800	121900	107900
6	138200	140300	137100	137300	134500	132000	132000	132900	131100	133600	121500	107400
7	138200	140400	136900	137800	134300	132300	132300	132800	130900	133500	121000	106900
8	138500	140300	136800	137900	134200	132300	131500	132800	130700	133100	120400	106500
9	138600	140200	137100	137900	133900	132300	131000	133000	130700	132600	120100	106100
10	138900	140200	136900	137800	133900	132800	130900	132500	132000	132800	119700	105800
11	139100	140100	137900	137700	133800	132400	131400	132100	135300	132000	119200	105200
12	139200	139900	138800	137700	133200	132400	131900	132100	136300	131300	118900	105100
13	139300	139700	139000	137600	133200	132400	132600	131600	136100	130900	118400	104800
14	139600	139500	139100	137400	132900	132300	132600	131200	136400	130300	118100	104500
15	139400	139300	139100	137300	132800	132200	133400	130500	136300	129900	117600	104300
16	139500	139100	139100	137300	132700	132300	131900	129900	136300	129900	117400	103900
17	139600	138900	139100	137300	132200	131900	132500	129200	136500	130500	116900	103600
18	139900	138800	138800	137300	132400	132000	131900	129300	136400	131300	116500	103400
19	139900	138900	138800	137300	132000	131700	131900	128900	136200	131500	115900	103100
20	140100	138700	138300	137000	131800	131400	131600	129100	136100	129400	115500	103000
21	140500	138800	137900	136700	131500	131800	131400	128900	135900	128400	114900	102500
22	140400	138800	137700	136900	131700	131500	131000	128700	135800	127700	114400	102500
23	140200	138800	137600	136800	132000	131900	131100	128300	135600	128200	114000	102700
24	140000	138400	137600	136700	131700	131800	130800	127900	135500	127700	113500	102700
25	139700	138500	137400	136600	131700	131800	130700	127800	135300	126800	113000	102100
26	139500	138300	137300	136300	132000	132000	130200	127500	135300	126300	112500	102100
27	139400	138300	137400	136700	131600	131800	129900	127700	135200	125900	111900	101900
28	139300	138400	137200	136500	131800	132400	129500	127400	135700	125700	111400	101900
29	139100	138200	137200	136200	131900	132400	129200	127100	135600	125200	110900	101800
30	140200	138100	137300	136000	---	132200	129700	126900	134800	124700	110400	101600
31	140300	---	137300	135900	---	132100	---	126600	---	124200	109900	---
MAX	140500	140600	139100	137900	135700	132800	133400	133000	136500	134200	123900	109500
MIN	138200	138100	136800	135900	131500	131400	129200	126600	126200	124200	109900	101600
(+)	644.48	644.18	644.08	643.88	643.34	643.37	643.03	642.60	643.74	642.27	640.21	638.95
(@)	+1800	-2200	-800	-1400	-4000	+200	-2400	-3100	+8200	-10600	-14300	-8300

CAL YR 1999 MAX 165200 MIN 136800 (@) -9200
WTR YR 2000 MAX 140600 MIN 101600 (@) -36900

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

08045000 EAGLE MOUNTAIN RESERVOIR ABOVE FORT WORTH, TX--Continued



08045400 LAKE WORTH ABOVE FORT WORTH, TX

LOCATION.--Lat 32°47′21", long 97°24′58", Tarrant County, Hydrologic Unit 12030102, on top of Lake Worth Dam on West Fork Trinity River, 240 ft to right of right end of uncontrolled concrete spillway, 2.9 mi upstream from Farmer's Branch, 3.3 mi upstream from bridge on State Highway 183 crossing West Fork Trinity River, 5.3 mi northwest of Tarrant County Courthouse in Fort Worth 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 Sep 1984.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Record good. 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 Jun 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 Tarrant Regional Water District.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,730 acre-ft, Jun 18, elevation, 593.90 ft; minimum contents, 28,630 acre-ft, Mar 20, Apr 9, 10, elevation, 591.35 ft.

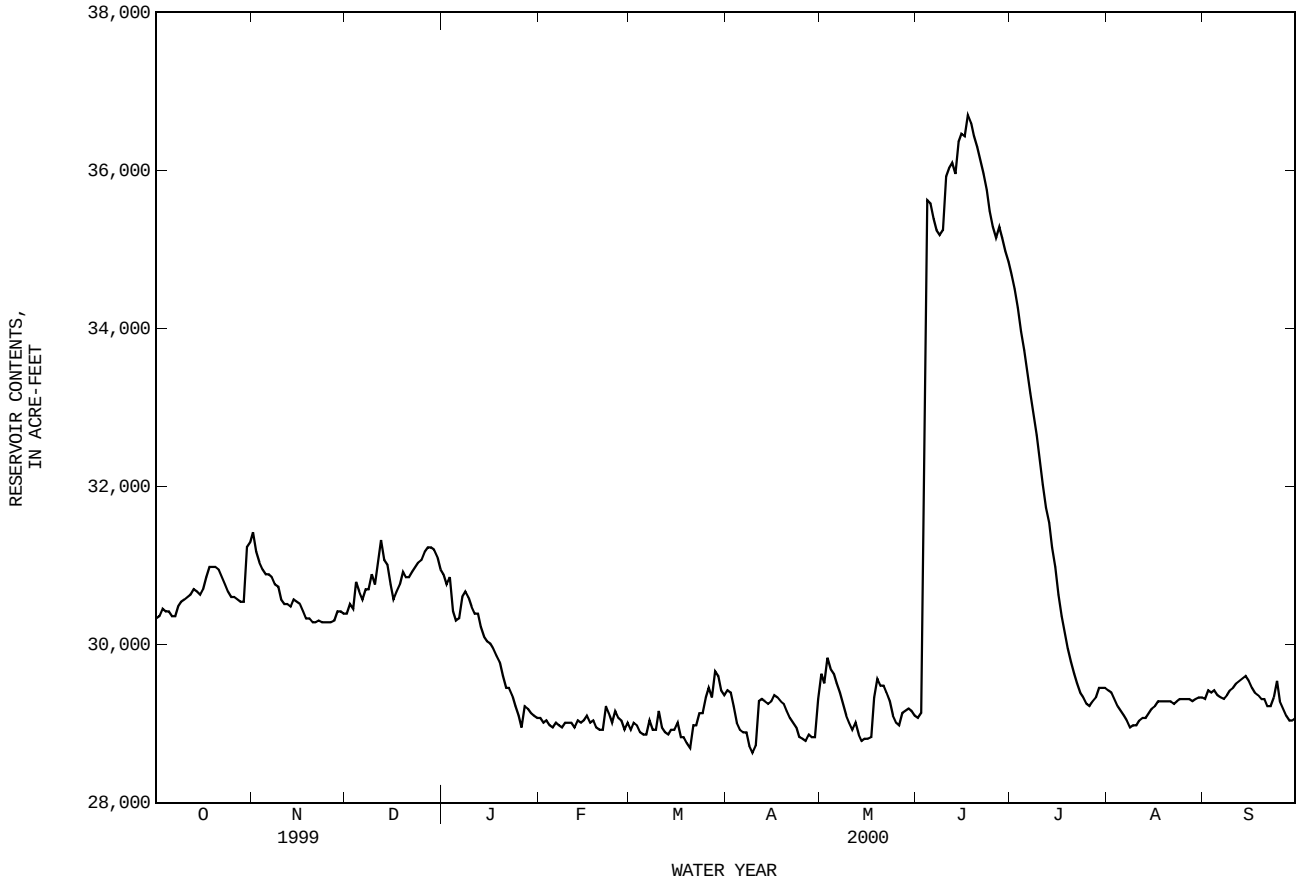
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30330	31420	30390	30890	29070	28920	29420	29630	29070	34670	29420	29310
2	30360	31170	30510	30760	29010	29010	29390	29510	29130	34500	29390	29420
3	30450	31040	30450	30850	29040	28980	29220	29830	31040	34260	29310	29390
4	30420	30950	30790	30420	28980	28890	29010	29690	35620	33960	29220	29420
5	30420	30890	30670	30300	28950	28860	28920	29630	35580	33720	29160	29360
6	30360	30890	30570	30330	29010	28860	28890	29510	35380	33470	29100	29330
7	30360	30850	30700	30600	28980	29040	28890	29390	35240	33180	29040	29310
8	30480	30760	30700	30670	28950	28920	28720	29250	35180	32930	28950	29360
9	30540	30730	30890	30600	29010	28920	28630	29100	35240	32650	28980	29420
10	30570	30570	30760	30480	29010	29160	28720	29010	35920	32360	28980	29450
11	30600	30510	31040	30390	29010	28950	29280	28920	36020	32020	29040	29510
12	30630	30510	31320	30390	28950	28890	29310	29010	36090	31730	29070	29540
13	30700	30480	31070	30220	29040	28860	29280	28860	35950	31540	29070	29570
14	30670	30570	31010	30100	29010	28920	29250	28780	36360	31230	29130	29600
15	30630	30540	30760	30040	29040	28920	29280	28810	36460	30980	29190	29540
16	30700	30510	30570	30010	29100	29010	29360	28810	36430	30630	29220	29450
17	30850	30420	30670	29950	29010	28830	29330	28830	36700	30360	29280	29390
18	30980	30330	30760	29860	29040	28830	29280	29330	36600	30160	29280	29360
19	30980	30330	30920	29780	28950	28750	29250	29570	36430	29950	29280	29310
20	30980	30280	30850	29600	28920	28690	29160	29480	36290	29780	29280	29310
21	30950	30280	30850	29450	28920	28980	29070	29480	36120	29630	29280	29220
22	30850	30300	30920	29450	29220	28980	29010	29390	35950	29510	29250	29220
23	30760	30280	30980	29360	29130	29130	28950	29280	35750	29390	29280	29330
24	30670	30280	31040	29220	29010	29130	28830	29100	35480	29330	29310	29540
25	30600	30280	31070	29100	29160	29330	28810	29010	35280	29250	29310	29280
26	30600	30280	31170	28950	29070	29450	28780	28980	35140	29220	29310	29190
27	30570	30300	31230	29220	29040	29330	28860	29130	35280	29280	29310	29100
28	30540	30420	31230	29190	28920	29660	28830	29160	35140	29330	29280	29040
29	30540	30420	31200	29130	29010	29600	28830	29190	34970	29450	29310	29040
30	31230	30390	31110	29100	---	29420	29310	29160	34840	29450	29330	29070
31	31290	---	30950	29070	---	29360	---	29100	---	29450	29330	---
MAX	31290	31420	31320	30890	29220	29660	29420	29830	36700	34670	29420	29600
MIN	30330	30280	30390	28950	28920	28690	28630	28780	29070	29220	28950	29040
(+)	592.24	591.95	592.13	591.50	591.48	591.60	591.58	591.51	593.34	591.63	591.59	591.50
(@)	+930	-900	+560	-1880	-60	+350	-50	-210	+5740	-5390	-120	-260

CAL YR 1999 MAX 37830 MIN 29920 (@) -220
WTR YR 2000 MAX 36700 MIN 28630 (@) -1290

(+) 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, TX

LOCATION.--Lat 32°45′52", long 97°25′55", Tarrant County, Hydrologic Unit 12030102, on left bank 0.6 mi northwest of US Hwy 183 on Roaring Springs Road, 200 ft left of roadway, along north side of Sycamore tree grove, 1.62 mi upstream of confluence with West Fork Trinity River.

DRAINAGE AREA.-- 6.09 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 587.32 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good. No Known regulations 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 WATER YEAR 1999.--Maximum gage height, 12.91, May 30, 1999, at 0445 hours; minimum gage height, 5.26, Jul 10, 1999, at 1045 hours.

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.33	6.80	6.14	6.20	6.22	6.19	6.21	6.13	6.23	6.00	5.28	5.28
2	6.72	6.17	---	6.21	6.21	6.18	6.23	6.72	6.20	5.98	5.28	5.28
3	6.35	6.14	---	6.21	6.23	6.17	7.00	6.21	6.18	5.97	5.28	5.28
4	6.11	6.13	---	6.21	6.22	6.18	6.26	6.36	6.16	5.93	5.28	5.28
5	6.20	6.12	---	6.22	6.23	6.19	6.24	6.19	6.15	5.93	5.28	5.50
6	6.47	6.12	---	6.22	6.34	6.18	6.22	6.16	6.14	5.97	5.28	5.46
7	6.12	---	6.16	6.22	6.31	6.19	6.21	6.15	6.13	5.81	5.28	5.28
8	6.11	---	6.15	6.21	6.21	6.68	6.22	6.14	6.13	5.91	5.28	5.28
9	6.11	---	6.15	6.21	6.21	6.21	6.22	6.15	6.12	5.49	5.28	5.28
10	6.10	6.42	6.56	6.21	6.20	6.19	6.21	6.49	6.13	5.85	5.28	5.28
11	6.08	---	6.40	6.21	6.20	6.95	6.19	6.21	6.35	6.01	5.28	5.28
12	6.08	---	6.54	6.21	6.19	6.35	6.19	6.25	6.15	6.02	5.28	5.28
13	6.07	---	6.23	6.19	6.19	6.24	6.20	6.16	6.11	5.91	5.28	6.09
14	6.02	---	6.22	6.19	6.18	6.21	6.61	6.15	6.10	5.78	5.28	5.91
15	5.93	---	6.21	6.19	6.18	6.21	6.20	6.14	6.10	5.44	5.28	5.56
16	5.79	---	6.20	6.24	6.18	6.20	6.19	6.14	6.09	5.28	5.28	5.46
17	6.04	---	6.20	6.18	6.17	6.20	6.19	6.72	6.07	5.28	5.28	5.48
18	6.28	---	6.65	6.18	6.17	6.43	6.18	6.22	6.07	5.28	5.28	5.69
19	6.13	---	6.30	6.19	6.16	6.38	6.19	6.16	6.05	5.28	5.52	5.41
20	6.40	---	6.23	6.19	6.17	6.21	6.18	6.14	6.09	5.28	5.52	5.33
21	6.27	---	6.22	6.19	6.17	6.20	6.18	6.14	6.16	5.28	5.28	5.32
22	6.15	---	6.20	6.18	6.18	6.20	6.17	6.13	6.16	5.33	5.28	5.33
23	6.13	6.14	6.20	6.17	6.19	6.19	6.16	6.14	6.15	5.38	5.28	5.34
24	6.12	---	6.20	6.18	6.19	6.19	6.16	6.10	6.07	5.46	5.28	5.28
25	6.11	---	6.20	6.19	6.19	6.20	6.17	6.34	6.32	5.48	5.27	5.28
26	6.11	---	6.19	6.20	6.20	6.19	6.48	7.08	6.11	5.46	5.28	5.28
27	6.09	---	6.19	6.20	6.19	6.26	6.18	6.28	6.06	5.42	5.27	5.28
28	6.10	---	6.19	6.36	6.18	6.29	6.16	6.28	6.03	5.30	5.28	5.28
29	6.09	---	6.19	7.05	---	6.20	6.15	6.98	6.02	5.42	5.28	5.28
30	6.09	6.25	6.20	6.34	---	6.20	6.14	7.68	6.00	5.85	5.28	5.28
31	5.99	---	6.18	6.23	---	6.21	---	6.30	---	5.28	5.28	---
MEAN	6.12	---	---	6.24	6.20	6.26	6.24	6.34	6.13	5.61	5.29	5.39
MAX	6.72	---	---	7.05	6.34	6.95	7.00	7.68	6.35	6.02	5.52	6.09
MIN	5.33	---	---	6.17	6.16	6.17	6.14	6.10	6.00	5.28	5.27	5.28

08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.28	5.95	5.48	6.01	6.01	5.98	6.22	6.52	5.17	6.04	5.66	5.73
2	5.28	5.68	5.48	6.01	6.01	6.01	6.15	6.10	5.17	6.01	5.70	5.73
3	5.28	5.72	5.47	6.01	6.01	5.98	6.10	6.79	6.51	5.98	5.82	5.73
4	5.28	5.93	5.59	6.00	6.00	5.97	6.09	6.17	7.14	5.94	5.76	5.72
5	5.28	5.80	5.50	6.02	6.00	5.97	6.08	6.20	5.92	5.91	5.70	5.73
6	5.28	5.67	5.52	6.04	6.01	5.96	6.08	6.13	6.05	5.90	5.72	5.74
7	5.28	5.62	5.73	6.36	6.01	6.00	6.07	6.09	6.02	5.90	5.78	5.75
8	5.28	5.63	5.53	6.41	6.01	6.27	6.02	6.06	6.01	5.88	5.78	5.74
9	5.57	5.58	6.12	6.10	6.00	6.01	6.04	6.04	6.18	5.85	5.84	5.70
10	5.28	5.59	5.94	6.07	6.00	6.24	6.06	6.04	7.14	5.67	5.88	5.71
11	5.28	5.58	6.11	6.07	5.99	6.07	6.44	6.03	6.79	5.56	5.93	5.73
12	5.28	5.58	6.76	6.07	6.00	6.01	6.43	5.99	6.94	5.50	6.11	5.73
13	5.28	5.52	6.05	6.05	5.99	6.00	6.11	5.83	6.01	5.51	5.90	5.75
14	5.28	5.49	5.99	6.05	5.99	6.00	6.08	5.61	6.12	5.52	5.93	5.77
15	5.28	5.47	5.96	6.06	5.99	5.99	6.06	5.57	5.72	5.50	5.90	5.78
16	5.28	5.43	5.95	6.06	5.98	5.98	6.45	5.57	5.72	5.49	---	5.78
17	5.90	5.38	5.95	6.03	5.98	5.97	6.09	5.52	5.56	5.45	---	5.80
18	5.77	5.63	6.27	6.00	5.97	5.97	6.07	5.56	5.19	5.41	5.59	5.80
19	6.08	5.43	6.01	6.00	5.97	5.97	6.06	6.50	4.61	5.42	5.65	5.82
20	5.50	5.42	5.98	6.00	5.96	5.98	6.05	6.18	5.71	5.40	5.57	5.82
21	5.30	5.44	5.99	5.99	5.96	6.18	6.06	6.04	6.02	5.51	5.58	5.86
22	5.31	5.44	5.99	5.98	6.37	6.18	6.05	5.98	6.02	6.06	5.62	5.92
23	5.28	5.64	5.99	5.98	6.46	6.14	6.07	5.86	6.00	5.60	5.65	5.95
24	5.28	5.45	6.02	5.98	6.25	6.07	6.03	5.58	5.98	5.45	5.66	5.82
25	5.27	5.45	6.01	5.99	6.37	6.06	6.02	5.42	5.96	5.63	5.69	5.68
26	5.28	5.45	6.02	5.98	6.19	6.38	5.96	5.32	5.95	5.49	5.69	5.82
27	5.28	5.46	6.03	6.31	6.04	6.08	5.96	5.55	6.38	5.81	5.72	5.93
28	5.28	5.47	6.00	6.13	5.99	6.40	5.99	6.05	6.11	5.85	5.72	5.99
29	5.28	5.46	6.01	6.07	5.98	6.25	5.75	5.78	6.05	5.64	5.72	6.04
30	6.44	5.47	6.01	6.03	---	6.12	6.20	5.29	6.05	5.64	5.72	6.10
31	6.17	---	6.09	6.01	---	6.07	---	5.17	---	5.61	5.74	---
MEAN	5.43	5.56	5.92	6.06	6.05	6.07	6.09	5.89	6.01	5.68	---	5.81
MAX	6.44	5.95	6.76	6.41	6.46	6.40	6.45	6.79	7.14	6.06	---	6.10
MIN	5.27	5.38	5.47	5.98	5.96	5.96	5.75	5.17	4.61	5.40	---	5.68

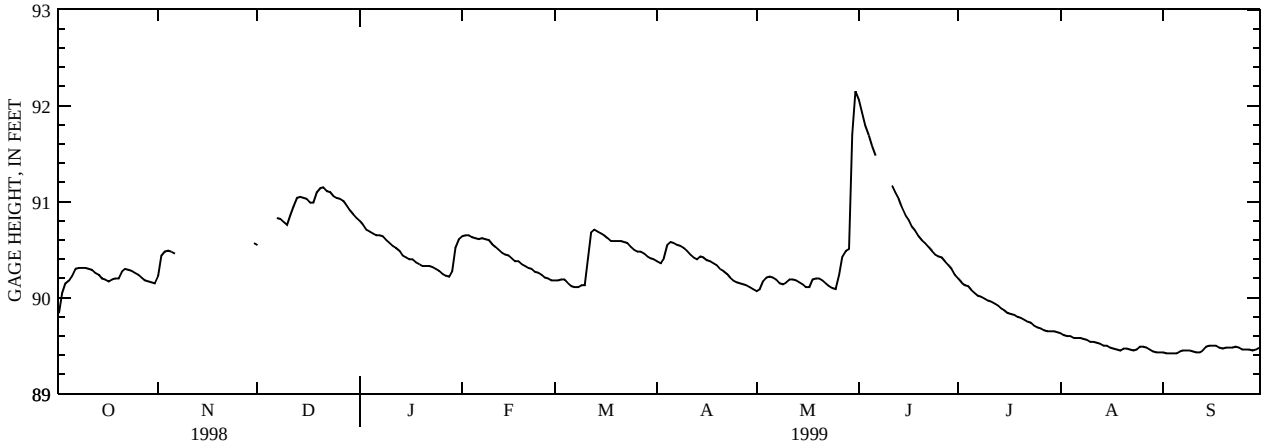
08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

Station Number: 324555097255501 Local Well Name: WELL C1
Latitude: 324555 Longitude: 0972555

Department of Defensés observation well located 3,100 feet northwest of intersection of Roaring Springs Road and State Highway 183. Depth of well 15.14 feet. Diameter of casing 6 inches. Screened interval from 10.6 to 15.1 feet in alluvium aquifer. Gage datum 500.00 feet.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

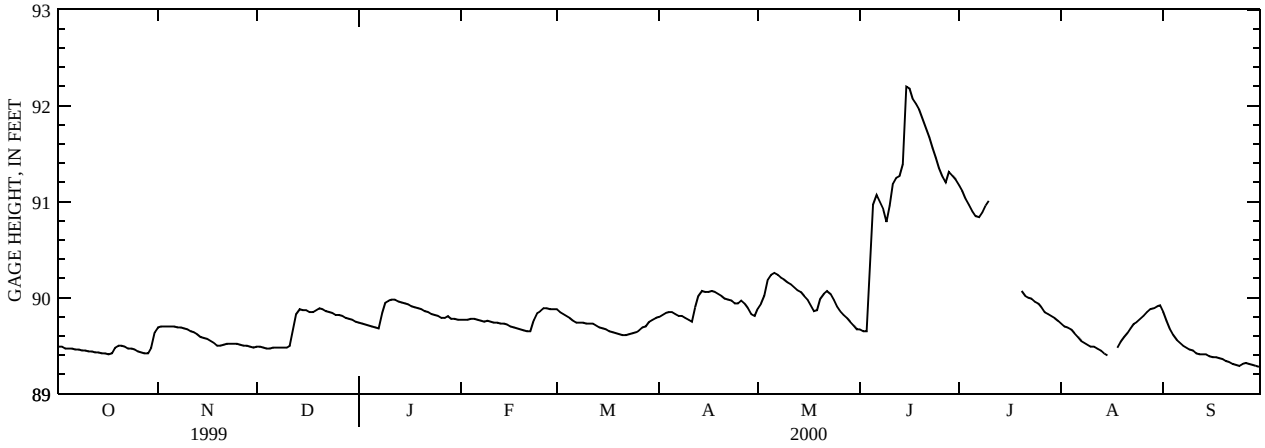
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.81	90.23	90.55	90.80	90.64	90.18	90.38	90.07	92.06	90.20	89.63	89.43
2	89.84	90.44	---	90.76	90.65	90.18	90.36	90.09	91.92	90.16	89.61	89.42
3	90.05	90.48	---	90.71	90.65	90.19	90.41	90.17	91.79	90.13	89.60	89.42
4	90.15	90.49	---	90.69	90.63	90.19	90.55	90.21	91.69	90.12	89.60	89.42
5	90.18	90.48	---	90.67	90.62	90.15	90.58	90.22	91.58	90.08	89.58	89.42
6	90.23	90.46	---	90.65	90.61	90.12	90.57	90.21	91.48	90.05	89.58	89.44
7	90.30	---	90.83	90.65	90.62	90.11	90.55	90.19	---	90.02	89.58	89.45
8	90.31	---	90.82	90.64	90.61	90.11	90.54	90.15	---	90.01	89.57	89.45
9	90.31	---	90.79	90.60	90.60	90.13	90.52	90.14	---	89.99	89.56	89.45
10	90.31	90.41	90.76	90.57	90.56	90.13	90.49	90.16	---	89.97	89.54	89.44
11	90.30	---	90.86	90.54	90.53	90.39	90.45	90.19	91.17	89.96	89.54	89.43
12	90.29	---	90.95	90.52	90.50	90.68	90.42	90.19	91.10	89.94	89.53	89.43
13	90.26	---	91.04	90.49	90.47	90.71	90.40	90.18	91.03	89.92	89.52	89.45
14	90.24	---	91.05	90.44	90.45	90.69	90.43	90.16	90.94	89.89	89.50	89.49
15	90.20	---	91.04	90.42	90.44	90.67	90.42	90.14	90.86	89.87	89.50	89.50
16	90.19	---	91.03	90.40	90.41	90.65	90.39	90.11	90.81	89.84	89.48	89.50
17	90.17	---	90.99	90.40	90.38	90.62	90.38	90.11	90.74	89.83	89.47	89.50
18	90.19	---	90.99	90.37	90.38	90.59	90.36	90.19	90.70	89.82	89.46	89.48
19	90.20	---	91.10	90.35	90.35	90.59	90.34	90.20	90.64	89.80	89.45	89.47
20	90.20	---	91.14	90.33	90.33	90.59	90.30	90.20	90.60	89.79	89.47	89.48
21	90.27	---	91.15	90.33	90.31	90.59	90.28	90.18	90.57	89.77	89.47	89.48
22	90.30	---	91.11	90.33	90.30	90.58	90.25	90.15	90.53	89.75	89.46	89.48
23	90.29	90.88	91.10	90.32	90.27	90.57	90.21	90.12	90.49	89.74	89.45	89.49
24	90.28	---	91.06	90.30	90.26	90.53	90.18	90.10	90.45	89.71	89.46	89.48
25	90.26	---	91.04	90.28	90.24	90.50	90.16	90.09	90.43	89.69	89.49	89.46
26	90.24	---	91.03	90.25	90.21	90.48	90.15	90.24	90.42	89.68	89.49	89.46
27	90.21	---	91.01	90.23	90.20	90.48	90.14	90.43	90.38	89.66	89.48	89.46
28	90.18	---	90.96	90.22	90.18	90.46	90.13	90.49	90.34	89.65	89.46	89.45
29	90.17	---	90.91	90.28	---	90.43	90.11	90.51	90.30	89.65	89.44	89.46
30	90.16	90.57	90.87	90.52	---	90.41	90.09	91.70	90.24	89.65	89.43	89.48
31	90.15	---	90.83	90.61	---	90.40	---	92.15	---	89.64	89.43	---
MEAN	90.20	---	---	90.47	90.44	90.42	90.35	90.30	---	89.87	89.51	89.46
MAX	90.31	---	---	90.80	90.65	90.71	90.58	92.15	---	90.20	89.63	89.50
MIN	89.81	---	---	90.22	90.18	90.11	90.09	90.07	---	89.64	89.43	89.42



08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.50	89.69	89.49	89.74	89.77	89.88	89.80	89.89	89.67	91.17	89.73	89.85
2	89.49	89.70	89.49	89.73	89.77	89.85	89.82	89.94	89.65	91.11	89.70	89.76
3	89.49	89.70	89.48	89.72	89.77	89.83	89.84	90.02	89.65	91.03	89.69	89.67
4	89.47	89.70	89.47	89.71	89.78	89.81	89.85	90.19	90.35	90.97	89.67	89.61
5	89.47	89.70	89.47	89.70	89.78	89.79	89.85	90.24	90.97	90.90	89.63	89.56
6	89.47	89.70	89.48	89.69	89.77	89.76	89.83	90.26	91.07	90.85	89.59	89.53
7	89.46	89.69	89.48	89.68	89.76	89.74	89.81	90.24	91.00	90.84	89.55	89.50
8	89.46	89.69	89.48	89.84	89.75	89.74	89.81	90.21	90.92	90.89	89.53	89.48
9	89.45	89.68	89.48	89.95	89.76	89.74	89.79	90.19	90.79	90.96	89.51	89.46
10	89.45	89.67	89.48	89.97	89.75	89.73	89.77	90.16	90.96	91.01	89.49	89.45
11	89.44	89.65	89.50	89.98	89.74	89.73	89.75	90.14	91.19	---	89.49	89.42
12	89.44	89.64	89.66	89.98	89.74	89.73	89.90	90.11	91.25	---	89.47	89.41
13	89.43	89.62	89.83	89.96	89.73	89.71	90.02	90.08	91.27	---	89.45	89.41
14	89.43	89.59	89.88	89.95	89.73	89.69	90.07	90.06	91.39	---	89.42	89.41
15	89.42	89.58	89.87	89.94	89.72	89.68	90.06	90.02	92.20	---	89.40	89.39
16	89.42	89.57	89.87	89.93	89.70	89.67	90.06	89.98	92.18	---	---	89.38
17	89.41	89.55	89.85	89.91	89.69	89.65	90.07	89.92	92.07	---	---	89.38
18	89.42	89.53	89.85	89.90	89.68	89.64	90.06	89.86	92.02	---	89.48	89.37
19	89.48	89.50	89.87	89.89	89.67	89.63	90.04	89.87	91.96	---	89.54	89.36
20	89.50	89.50	89.89	89.88	89.66	89.62	90.02	89.99	91.86	90.07	89.59	89.34
21	89.50	89.51	89.88	89.86	89.65	89.61	89.99	90.04	91.77	90.02	89.63	89.33
22	89.49	89.52	89.86	89.85	89.65	89.61	89.98	90.07	91.67	90.00	89.68	89.31
23	89.47	89.52	89.85	89.83	89.77	89.62	89.97	90.04	91.56	89.99	89.73	89.30
24	89.47	89.52	89.84	89.82	89.84	89.63	89.94	89.98	91.46	89.96	89.75	89.29
25	89.46	89.52	89.82	89.81	89.86	89.64	89.94	89.91	91.35	89.94	89.78	89.31
26	89.44	89.51	89.82	89.79	89.89	89.66	89.97	89.86	91.26	89.90	89.81	89.32
27	89.43	89.50	89.81	89.79	89.89	89.69	89.94	89.82	91.20	89.85	89.85	89.31
28	89.42	89.50	89.79	89.81	89.88	89.70	89.89	89.79	91.31	89.83	89.88	89.30
29	89.42	89.49	89.78	89.78	89.88	89.75	89.83	89.75	91.27	89.81	89.89	89.29
30	89.48	89.48	89.77	89.78	---	89.77	89.81	89.71	91.23	89.79	89.91	89.28
31	89.64	---	89.75	89.77	---	89.79	---	89.67	---	89.76	89.92	---
MEAN	89.46	89.59	89.70	89.84	89.76	89.71	89.92	90.00	91.22	---	---	89.43
MAX	89.64	89.70	89.89	89.98	89.89	89.88	90.07	90.26	92.20	---	---	89.85
MIN	89.41	89.48	89.47	89.68	89.65	89.61	89.75	89.67	89.65	---	---	89.28



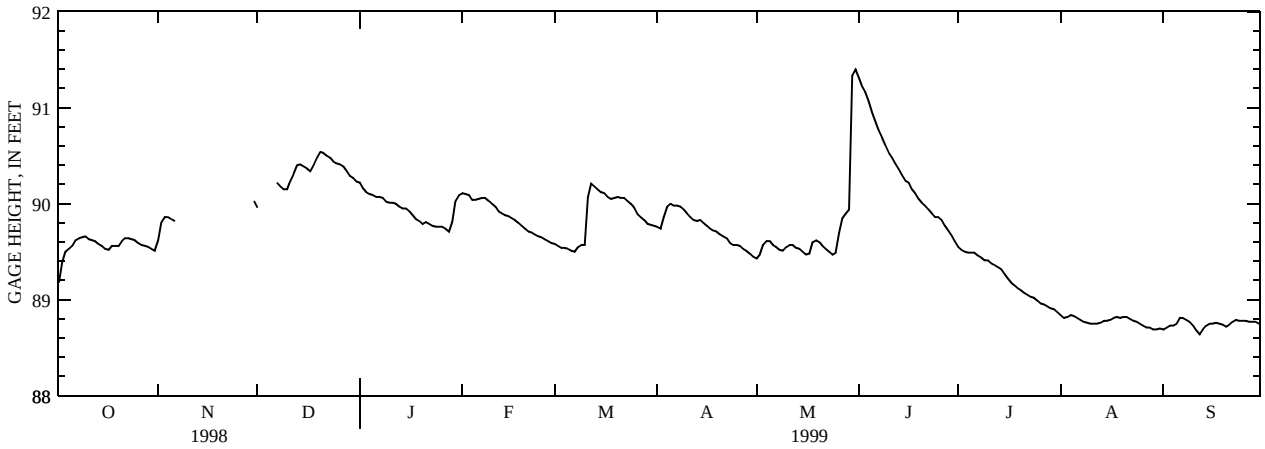
08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

Station Number: 324553097255401 Local Well Name: WELL C2
Latitude: 324553 Longitude: 0972554

Department of Defensés observation well located 3,100 feet northwest of intersection of Roaring Springs Road and State Highway 183. Depth of well 12.0 feet. Diameter of casing 6 inches. Screened interval from 7.5 to 12.0 feet in alluvium aquifer. Gage datum 500.00 feet.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

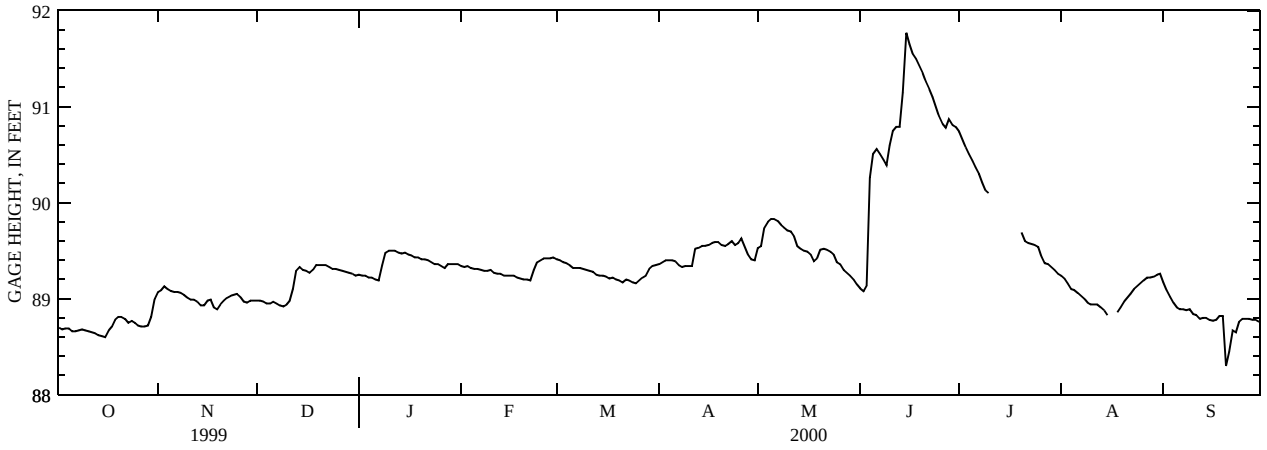
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.13	89.62	89.96	90.22	90.11	89.58	89.76	89.43	91.31	89.55	88.84	88.69
2	89.18	89.81	---	90.16	90.10	89.56	89.74	89.47	91.22	89.52	88.81	88.71
3	89.39	89.86	---	90.12	90.09	89.54	89.86	89.57	91.16	89.50	88.82	88.73
4	89.50	89.86	---	90.10	90.04	89.54	89.97	89.61	91.06	89.49	88.84	88.73
5	89.53	89.84	---	90.09	90.04	89.53	90.00	89.61	90.95	89.49	88.83	88.75
6	89.56	89.82	---	90.07	90.05	89.51	89.98	89.57	90.85	89.49	88.81	88.81
7	89.62	---	90.22	90.07	90.06	89.50	89.98	89.55	90.76	89.46	88.79	88.81
8	89.64	---	90.18	90.06	90.06	89.55	89.97	89.52	90.69	89.44	88.77	88.79
9	89.65	---	90.15	90.02	90.03	89.57	89.94	89.51	90.61	89.41	88.76	88.77
10	89.66	89.79	90.15	90.01	90.00	89.57	89.90	89.55	90.53	89.41	88.75	88.73
11	89.63	---	90.24	90.01	89.97	90.07	89.86	89.57	90.48	89.38	88.75	88.68
12	89.62	---	90.31	90.00	89.92	90.21	89.83	89.57	90.42	89.36	88.75	88.64
13	89.61	---	90.40	89.97	89.90	90.18	89.82	89.54	90.36	89.34	88.76	88.69
14	89.58	---	90.41	89.95	89.88	90.15	89.83	89.53	90.30	89.32	88.78	88.73
15	89.56	---	90.39	89.95	89.87	90.12	89.80	89.50	90.24	89.27	88.78	88.75
16	89.53	---	90.37	89.92	89.85	90.11	89.77	89.47	90.22	89.22	88.79	88.75
17	89.52	---	90.34	89.88	89.83	90.07	89.74	89.48	90.15	89.18	88.81	88.76
18	89.56	---	90.40	89.84	89.80	90.05	89.72	89.60	90.11	89.15	88.82	88.75
19	89.56	---	90.48	89.82	89.77	90.06	89.71	89.62	90.05	89.12	88.81	88.74
20	89.56	---	90.54	89.79	89.74	90.07	89.68	89.60	90.01	89.10	88.82	88.72
21	89.61	---	90.53	89.81	89.71	90.06	89.66	89.56	89.98	89.07	88.82	88.74
22	89.64	---	90.50	89.79	89.70	90.06	89.64	89.53	89.94	89.05	88.80	88.77
23	89.64	90.25	90.48	89.77	89.68	90.03	89.59	89.50	89.90	89.03	88.78	88.79
24	89.63	---	90.44	89.76	89.66	90.00	89.57	89.47	89.86	89.02	88.77	88.78
25	89.62	---	90.42	89.76	89.65	89.96	89.57	89.49	89.86	88.99	88.75	88.78
26	89.59	---	90.41	89.76	89.63	89.89	89.56	89.70	89.83	88.96	88.73	88.78
27	89.57	---	90.39	89.74	89.61	89.86	89.53	89.85	89.77	88.95	88.71	88.77
28	89.56	---	90.34	89.71	89.59	89.83	89.51	89.90	89.72	88.93	88.71	88.77
29	89.55	---	90.29	89.81	---	89.79	89.48	89.94	89.67	88.91	88.69	88.77
30	89.53	90.03	90.27	90.03	---	89.78	89.45	91.34	89.61	88.90	88.69	88.75
31	89.51	---	90.23	90.09	---	89.77	---	91.40	---	88.87	88.70	---
MEAN	89.55	---	---	89.94	89.87	89.86	89.75	89.70	90.32	89.22	88.78	88.75
MAX	89.66	---	---	90.22	90.11	90.21	90.00	91.40	91.31	89.55	88.84	88.81
MIN	89.13	---	---	89.71	89.59	89.50	89.45	89.43	89.61	88.87	88.69	88.64



08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88.74	89.07	88.98	89.25	89.34	89.41	89.36	89.53	89.11	90.74	89.24	89.17
2	88.70	89.09	88.98	89.24	89.33	89.40	89.38	89.55	89.08	90.66	89.21	89.09
3	88.68	89.13	88.97	89.24	89.34	89.38	89.40	89.74	89.14	90.58	89.16	89.02
4	88.69	89.10	88.95	89.22	89.32	89.37	89.40	89.80	90.26	90.51	89.10	88.96
5	88.69	89.08	88.95	89.22	89.31	89.35	89.40	89.83	90.51	90.44	89.09	88.91
6	88.66	89.07	88.97	89.20	89.31	89.32	89.39	89.83	90.56	90.37	89.06	88.89
7	88.66	89.07	88.95	89.19	89.30	89.32	89.35	89.81	90.51	90.30	89.03	88.89
8	88.67	89.06	88.93	89.35	89.29	89.32	89.33	89.77	90.45	90.21	89.00	88.88
9	88.68	89.04	88.92	89.48	89.29	89.31	89.34	89.74	90.39	90.13	88.96	88.89
10	88.67	89.01	88.94	89.50	89.30	89.30	89.34	89.71	90.60	90.10	88.94	88.84
11	88.66	88.99	88.98	89.50	89.27	89.29	89.34	89.70	90.75	---	88.94	88.83
12	88.65	88.99	89.10	89.50	89.26	89.28	89.52	89.65	90.79	---	88.94	88.79
13	88.64	88.97	89.29	89.48	89.26	89.25	89.53	89.55	90.79	---	88.91	88.80
14	88.62	88.93	89.33	89.47	89.24	89.24	89.55	89.52	91.15	---	88.88	88.80
15	88.61	88.93	89.30	89.48	89.24	89.24	89.55	89.50	91.77	---	88.83	88.78
16	88.60	88.98	89.29	89.46	89.24	89.23	89.56	89.49	91.65	---	---	88.77
17	88.67	88.99	89.27	89.45	89.24	89.21	89.58	89.46	91.55	---	---	88.78
18	88.71	88.91	89.30	89.43	89.22	89.22	89.59	89.39	91.50	---	88.86	88.82
19	88.78	88.89	89.35	89.43	89.21	89.20	89.59	89.42	91.43	---	88.91	88.82
20	88.81	88.94	89.35	89.41	89.20	89.19	89.56	89.51	91.35	89.69	88.97	88.30
21	88.81	88.98	89.35	89.41	89.20	89.17	89.55	89.52	91.26	89.60	89.01	88.45
22	88.79	89.01	89.35	89.40	89.19	89.20	89.57	89.51	91.18	89.58	89.05	88.67
23	88.75	89.03	89.33	89.38	89.30	89.19	89.60	89.49	91.10	89.57	89.10	88.65
24	88.77	89.04	89.31	89.36	89.38	89.17	89.56	89.46	91.00	89.56	89.13	88.76
25	88.75	89.05	89.31	89.36	89.40	89.16	89.58	89.38	90.90	89.54	89.16	88.79
26	88.72	89.02	89.30	89.34	89.42	89.19	89.63	89.36	90.82	89.44	89.19	88.79
27	88.71	88.97	89.29	89.32	89.42	89.22	89.55	89.30	90.78	89.37	89.22	88.79
28	88.71	88.96	89.28	89.36	89.42	89.24	89.46	89.27	90.87	89.36	89.22	88.78
29	88.72	88.98	89.27	89.36	89.43	89.31	89.41	89.24	90.81	89.33	89.23	88.78
30	88.81	88.98	89.26	89.36	---	89.34	89.40	89.20	90.79	89.30	89.25	88.76
31	89.00	---	89.24	89.36	---	89.35	---	89.15	---	89.26	89.26	---
MEAN	88.71	89.01	89.17	89.37	89.30	89.27	89.48	89.53	90.76	---	---	88.81
MAX	89.00	89.13	89.35	89.50	89.43	89.41	89.63	89.83	91.77	---	---	89.17
MIN	88.60	88.89	88.92	89.19	89.19	89.16	89.33	89.15	89.08	---	---	88.30



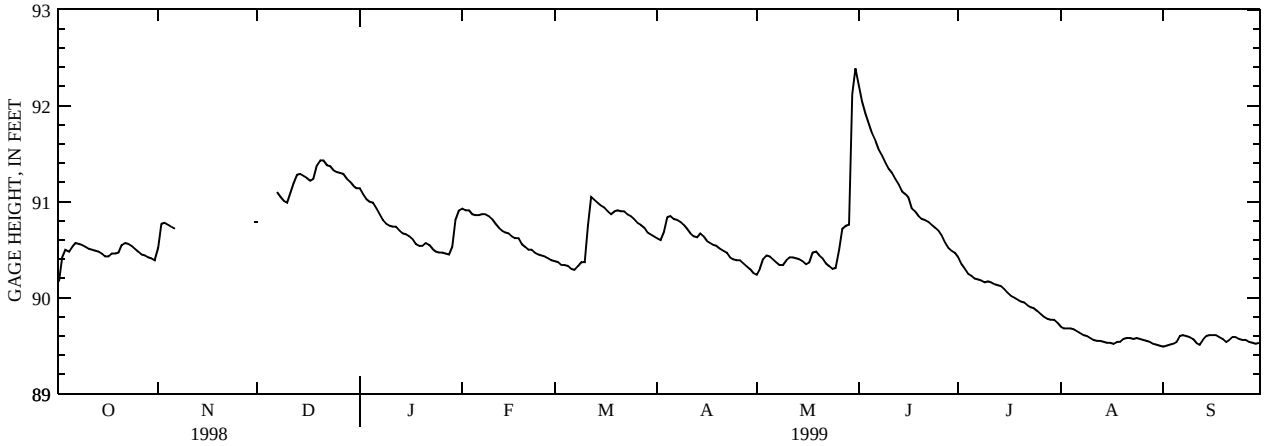
08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

Station Number: 324553097255601 Local Well Name: WELL C3
Latitude: 324553 Longitude: 0972556

Department of Defensés observation well located 3,100 feet northwest of intersection of Roaring Springs Road and State Highway 183. Depth of well 9.85 feet. Diameter of casing 6 inches. Screened interval from 5.35 to 9.85 feet in alluvium aquifer. Gage datum 500.00 feet.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

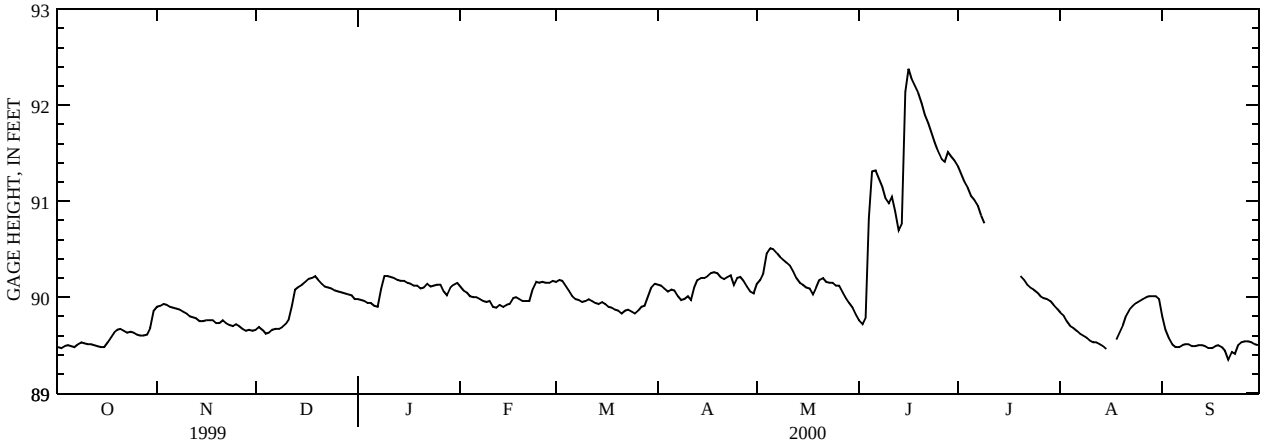
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90.09	90.52	90.79	91.14	90.93	90.38	90.62	90.24	92.21	90.42	89.70	89.49
2	90.17	90.77	---	91.08	90.91	90.37	90.60	90.30	92.04	90.35	89.68	89.50
3	90.42	90.78	---	91.03	90.91	90.34	90.68	90.40	91.92	90.30	89.68	89.51
4	90.50	90.76	---	91.00	90.87	90.34	90.84	90.44	91.81	90.25	89.68	89.52
5	90.48	90.74	---	90.99	90.86	90.33	90.85	90.43	91.71	90.23	89.67	89.54
6	90.53	90.72	---	90.93	90.86	90.30	90.82	90.40	91.63	90.20	89.65	89.60
7	90.57	---	91.10	90.87	90.87	90.29	90.81	90.37	91.54	90.19	89.63	89.61
8	90.56	---	91.05	90.81	90.87	90.33	90.79	90.34	91.48	90.18	89.61	89.60
9	90.55	---	91.01	90.77	90.85	90.37	90.76	90.34	91.41	90.16	89.60	89.59
10	90.53	90.68	90.99	90.75	90.82	90.37	90.72	90.39	91.34	90.17	89.58	89.57
11	90.51	---	91.09	90.74	90.77	90.75	90.67	90.42	91.30	90.16	89.56	89.53
12	90.50	---	91.19	90.74	90.73	91.05	90.64	90.42	91.24	90.14	89.55	89.51
13	90.49	---	91.28	90.70	90.70	91.02	90.63	90.41	91.18	90.13	89.55	89.56
14	90.48	---	91.29	90.67	90.68	90.99	90.67	90.40	91.11	90.12	89.54	89.60
15	90.46	---	91.27	90.66	90.67	90.96	90.64	90.38	91.08	90.09	89.53	89.61
16	90.43	---	91.25	90.64	90.64	90.94	90.59	90.35	---	90.05	89.53	89.61
17	90.43	---	91.22	90.61	90.62	90.90	90.57	90.37	90.93	90.02	89.52	89.61
18	90.46	---	91.24	90.56	90.62	90.87	90.55	90.47	90.90	90.00	89.54	89.59
19	90.46	---	91.38	90.54	90.56	90.90	90.54	90.48	90.85	89.98	89.54	89.57
20	90.47	---	91.43	90.54	90.53	90.91	90.51	90.44	90.82	89.96	89.57	89.54
21	90.55	---	91.43	90.57	90.50	90.90	90.49	90.41	90.81	89.95	89.58	89.56
22	90.57	---	91.38	90.55	90.50	90.90	90.47	90.36	90.79	89.92	89.58	89.59
23	90.56	91.15	91.37	90.51	90.47	90.87	90.42	90.33	90.76	89.90	89.57	89.59
24	90.54	---	91.33	90.48	90.45	90.85	90.40	90.30	90.73	89.89	89.58	89.57
25	90.51	---	91.31	90.47	90.44	90.82	90.39	90.31	90.70	89.86	89.57	89.56
26	90.48	---	91.30	90.47	90.43	90.78	90.39	90.50	90.65	89.83	89.56	89.56
27	90.45	---	91.29	90.46	90.41	90.76	90.36	90.72	90.58	89.80	89.55	89.54
28	90.44	---	91.24	90.45	90.39	90.73	90.33	90.75	90.52	89.78	89.54	89.53
29	90.42	---	91.21	90.53	---	90.68	90.30	90.76	90.49	89.77	89.52	89.52
30	90.41	90.79	91.17	90.81	---	90.66	90.26	92.12	90.47	89.77	89.51	89.53
31	90.39	---	91.14	90.91	---	90.64	---	92.39	---	89.74	89.50	---
MEAN	90.46	---	---	90.71	90.67	90.69	90.58	90.54	---	90.04	89.58	89.56
MAX	90.57	---	---	91.14	90.93	91.05	90.85	92.39	---	90.42	89.70	89.61
MIN	90.09	---	---	90.45	90.39	90.29	90.26	90.24	---	89.74	89.50	89.49



08045525 FARMERS BRANCH AT WESTWORTH VILLAGE, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.51	89.90	89.66	89.98	90.11	90.16	90.13	90.14	89.76	91.36	89.84	89.80
2	89.48	89.91	89.69	89.97	90.07	90.18	90.12	90.18	89.72	91.28	89.81	89.66
3	89.47	89.93	89.66	89.96	90.05	90.17	90.09	90.25	89.79	91.20	89.75	89.57
4	89.49	89.92	89.62	89.94	90.01	90.12	90.06	90.46	90.82	91.14	89.70	89.51
5	89.50	89.90	89.63	89.94	90.00	90.07	90.08	90.51	91.31	91.05	89.68	89.48
6	89.49	89.89	89.66	89.91	90.00	90.01	90.07	90.50	91.32	91.01	89.65	89.48
7	89.48	89.88	89.67	89.90	89.98	89.98	90.01	90.46	91.24	90.95	89.62	89.50
8	89.51	89.87	89.67	90.09	89.96	89.97	89.97	90.42	91.15	90.85	89.60	89.51
9	89.53	89.85	89.69	90.22	89.95	89.95	89.98	90.39	91.03	90.77	89.58	89.51
10	89.52	89.83	89.72	90.22	89.96	89.96	90.01	90.36	90.98	---	89.55	89.49
11	89.51	89.80	89.77	90.21	89.90	89.98	89.97	90.33	91.05	---	89.53	89.49
12	89.51	89.79	89.91	90.20	89.89	89.96	90.10	90.27	90.90	---	89.53	89.50
13	89.50	89.78	90.08	90.18	89.92	89.94	90.18	90.20	90.70	---	89.51	89.50
14	89.49	89.75	90.11	90.17	89.90	89.93	90.20	90.15	90.77	---	89.49	89.49
15	89.48	89.75	90.13	90.17	89.92	89.95	90.20	90.13	92.14	---	89.46	89.47
16	89.48	89.76	90.16	90.15	89.93	89.93	90.22	90.10	92.38	---	---	89.47
17	89.53	89.76	90.19	90.14	89.99	89.90	90.25	90.09	92.27	---	---	89.49
18	89.58	89.76	90.20	90.12	90.00	89.89	90.26	90.03	92.20	---	89.56	89.50
19	89.63	89.73	90.22	90.12	89.98	89.87	90.25	90.10	92.13	---	89.63	89.48
20	89.66	89.73	90.18	90.09	89.96	89.86	90.21	90.18	92.02	90.22	89.71	89.44
21	89.67	89.76	90.14	90.10	89.96	89.83	90.19	90.20	91.90	90.18	89.81	89.35
22	89.65	89.73	90.11	90.14	89.96	89.86	90.21	90.16	91.81	90.13	89.87	89.43
23	89.63	89.71	90.10	90.11	90.09	89.87	90.23	90.15	91.71	90.10	89.91	89.41
24	89.64	89.70	90.09	90.12	90.16	89.85	90.13	90.15	91.61	90.08	89.94	89.50
25	89.63	89.72	90.07	90.13	90.15	89.83	90.20	90.12	91.52	90.05	89.96	89.53
26	89.61	89.70	90.06	90.13	90.16	89.86	90.21	90.12	91.44	90.01	89.98	89.54
27	89.60	89.67	90.05	90.06	90.15	89.90	90.17	90.05	91.41	89.99	90.00	89.54
28	89.60	89.65	90.04	90.02	90.15	89.91	90.11	89.99	91.51	89.98	90.01	89.53
29	89.61	89.66	90.03	90.10	90.17	90.01	90.06	89.94	91.46	89.96	90.01	89.51
30	89.68	89.65	90.02	90.13	---	90.10	90.04	89.89	91.42	89.92	90.01	89.50
31	89.86	---	89.98	90.15	---	90.14	---	89.82	---	89.88	89.98	---
MEAN	89.57	89.78	89.95	90.09	90.01	89.97	90.13	90.19	91.32	---	---	89.51
MAX	89.86	89.93	90.22	90.22	90.17	90.18	90.26	90.51	92.38	---	---	89.80
MIN	89.47	89.65	89.62	89.90	89.89	89.83	89.97	89.82	89.72	---	---	89.35



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.--Jun 1976 to May 1980, Aug 1998 to current year.
Water-quality records.--Chemical data: Oct 1978 to Sep 1979.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfilled dam 4,055 ft long. The dam was completed and deliberate impoundment began in Mar 1957. The service spillway is a semi-circular drip inlet with a crest length of 162 ft located 550 ft to the right of the pumphouse. The drop inlet discharges into a 9 x 9 ft concrete conduit that extends 425 ft under the dam. The emergency spillway is an uncontrolled excavated split-level cut channel located at the right end of the dam. The low-flow outlet works consist of an 18 in diameter concrete pipe with a valve control assembly. At end of year, flow from 43.9 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, 18,900 acre-ft, Jun 28, 29, elevation, 896.17 ft; minimum contents, 13,100 acre-ft, Mar 20, 21, elevation, 890.72 ft.

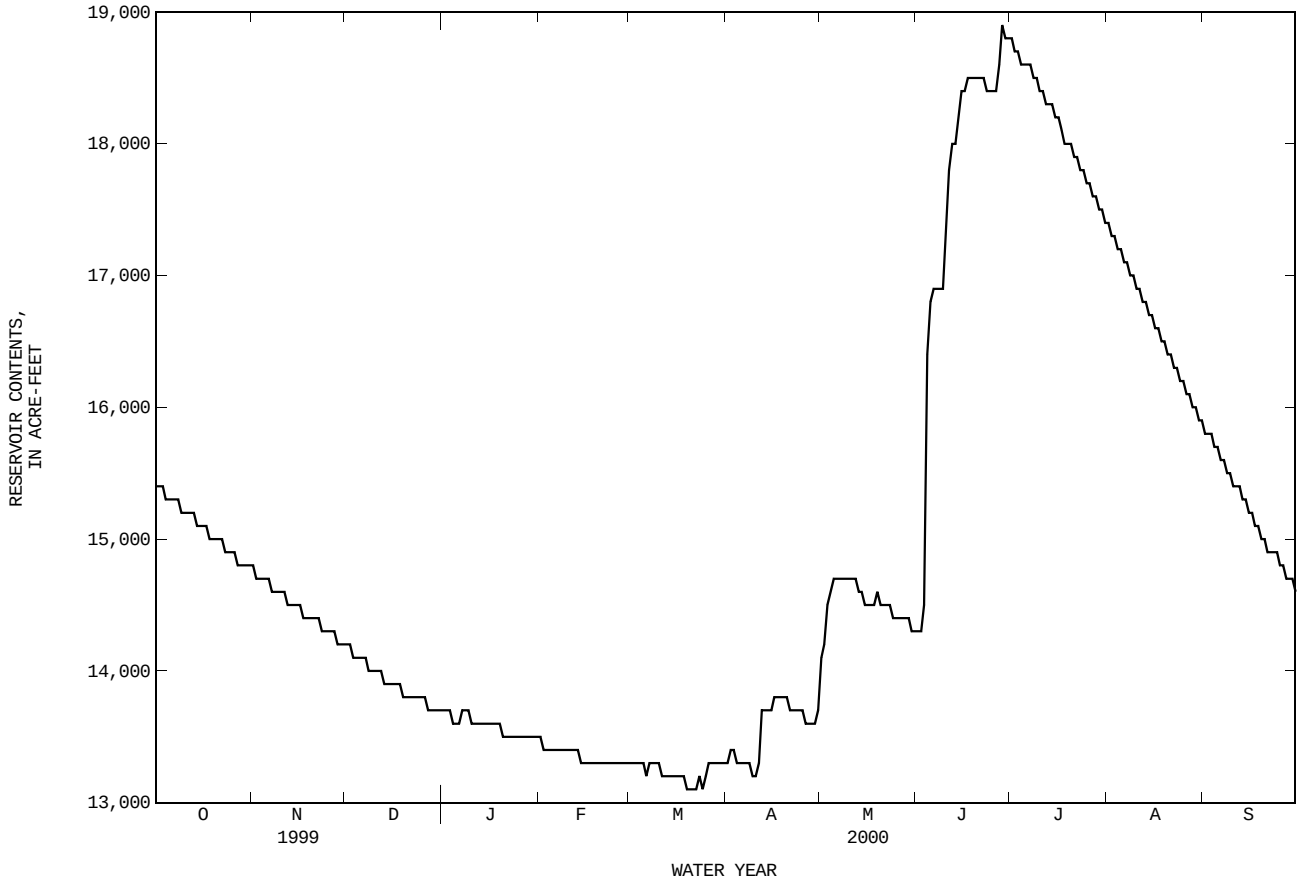
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15400	14800	14200	13700	13500	13300	13300	14100	14300	18800	17400	15800
2	15400	14700	14200	13700	13400	13300	13400	14200	14300	18700	17300	15800
3	15400	14700	14100	13700	13400	13300	13400	14500	14500	18700	17300	15800
4	15300	14700	14100	13600	13400	13300	13300	14600	16400	18600	17200	15700
5	15300	14700	14100	13600	13400	13300	13300	14700	16800	18600	17200	15700
6	15300	14700	14100	13600	13400	13200	13300	14700	16900	18600	17100	15600
7	15300	14600	14100	13700	13400	13300	13300	14700	16900	18600	17100	15600
8	15300	14600	14000	13700	13400	13300	13300	14700	16900	18500	17000	15500
9	15200	14600	14000	13700	13400	13300	13200	14700	16900	18500	17000	15500
10	15200	14600	14000	13600	13400	13300	13200	14700	17300	18400	16900	15400
11	15200	14600	14000	13600	13400	13200	13300	14700	17800	18400	16900	15400
12	15200	14500	14000	13600	13400	13200	13700	14700	18000	18300	16800	15400
13	15200	14500	13900	13600	13400	13200	13700	14600	18000	18300	16800	15300
14	15100	14500	13900	13600	13300	13200	13700	14600	18200	18300	16700	15300
15	15100	14500	13900	13600	13300	13200	13700	14500	18400	18200	16700	15200
16	15100	14500	13900	13600	13300	13200	13800	14500	18400	18200	16600	15200
17	15100	14400	13900	13600	13300	13200	13800	14500	18500	18100	16600	15100
18	15000	14400	13900	13600	13300	13200	13800	14500	18500	18000	16500	15100
19	15000	14400	13800	13600	13300	13100	13800	14600	18500	18000	16500	15000
20	15000	14400	13800	13500	13300	13100	13800	14500	18500	18000	16400	15000
21	15000	14400	13800	13500	13300	13100	13700	14500	18500	17900	16400	14900
22	15000	14400	13800	13500	13300	13100	13700	14500	18500	17900	16300	14900
23	14900	14300	13800	13500	13300	13200	13700	14500	18400	17800	16300	14900
24	14900	14300	13800	13500	13300	13100	13700	14400	18400	17800	16200	14900
25	14900	14300	13800	13500	13300	13200	13700	14400	18400	17700	16200	14800
26	14900	14300	13800	13500	13300	13300	13600	14400	18400	17700	16100	14800
27	14800	14300	13700	13500	13300	13300	13600	14400	18600	17600	16100	14700
28	14800	14200	13700	13500	13300	13300	13600	14400	18900	17600	16000	14700
29	14800	14200	13700	13500	13300	13300	13600	14400	18800	17500	16000	14700
30	14800	14200	13700	13500	---	13300	13700	14300	18800	17500	15900	14600
31	14800	---	13700	13500	---	13300	---	14300	---	17400	15900	---
MAX	15400	14800	14200	13700	13500	13300	13800	14700	18900	18800	17400	15800
MIN	14800	14200	13700	13500	13300	13100	13200	14100	14300	17400	15900	14600
(+)	892.43	891.84	891.29	891.10	890.91	890.95	891.37	891.94	896.07	894.90	893.47	892.30
(@)	-600	-600	-500	-200	-200	0	+400	+600	+4500	-1400	-1500	-1300

CAL YR 1999 MAX 19100 MIN 13700 (@) -1200
WTR YR 2000 MAX 18900 MIN 13100 (@) -800

(+) 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 Sep 1985, Oct 1998 to current year (daily mean discharge), Oct 1985 to Sep 1998 (peaks above base discharge).
Water-quality records.--Chemical data: Oct 1980 to Sep 1982. Biochemical data: Oct 1980 to Sep 1982.

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

REMARKS.--No estimated daily discharges. Records good except those below 2.0 ft^3/s, which are fair. Since installation of gage in 1980 at least 10% the contributing drainage area has been regulated by Lake Weatherford (station 08045800, conservation pool storage 18,650 acre-ft), 2.8 mi upstream. No known diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.64	.59	1.0	1.1	.71	.81	6.6	.84	12	.64	.69
2	.57	.48	.73	1.3	1.0	.68	.79	.58	.86	7.5	.58	.72
3	.56	.56	.75	1.1	.81	.64	.43	8.3	3.4	4.2	.53	.67
4	.56	.76	.95	.93	.79	.63	.52	3.6	20	3.3	.55	.64
5	.57	.61	1.1	1.1	.95	.73	.48	3.3	9.0	1.7	.56	.66
6	.73	.58	1.1	1.1	1.1	.91	.35	3.4	2.4	1.0	.55	.60
7	.55	.59	1.1	2.0	.92	.97	.33	3.1	1.6	.91	.57	.64
8	.54	.56	1.3	2.3	1.0	1.1	.24	3.1	1.5	.82	.56	.66
9	.54	.52	1.3	1.1	1.1	.80	.37	3.0	1.4	.94	.62	.75
10	.53	.55	.67	.76	1.3	1.1	.38	2.1	1.6	.89	.65	.74
11	.58	.62	5.3	.69	1.1	.83	1.1	1.1	6.2	.71	.60	.77
12	.60	.55	14	.76	.99	.84	.91	1.0	7.1	.67	.59	.83
13	.57	.55	.89	.70	1.0	.83	.39	.87	2.7	.64	.61	.83
14	.56	.56	.76	.69	.87	.83	.50	.79	1.8	.99	.59	.84
15	.52	.59	.76	.96	.99	.83	.59	.94	2.1	.69	.60	.77
16	.59	.64	.86	1.1	.91	.90	.65	.95	1.9	.63	.60	.67
17	.63	.58	1.0	.85	.78	.82	.44	.90	2.4	.59	.59	.69
18	.79	.61	.95	.69	.71	.85	.48	.81	4.7	.56	.54	.63
19	.61	.75	.89	.63	.67	1.3	.46	1.5	6.0	.56	.54	.62
20	.53	.69	.85	.78	.67	.63	.48	1.4	3.1	.47	.54	.57
21	.53	1.1	.88	.74	.71	.67	.54	.82	2.0	.48	.55	.59
22	.51	.91	1.0	.84	1.3	.85	.79	1.0	1.7	.49	.53	.63
23	.50	.84	.85	.76	1.6	1.5	1.0	.67	1.2	.53	.56	.64
24	.48	.88	.90	.69	.64	.86	1.1	.76	1.2	.53	.58	.77
25	.52	.80	1.1	.69	.68	.86	1.9	.79	1.3	.53	.58	.78
26	.51	.86	.98	.69	.93	6.2	1.4	.86	1.2	.53	.82	.68
27	.50	.59	1.0	1.2	.89	.43	2.6	1.7	1.3	.55	.60	.70
28	.57	.58	.95	1.0	.98	.98	2.6	1.4	12	.57	.61	.70
29	.60	.58	1.1	.94	.87	.82	3.5	.81	18	.61	.67	.64
30	1.3	.57	1.1	.87	---	.42	5.6	.95	18	.62	.59	.58
31	.60	---	1.0	.85	---	.41	---	.91	---	.63	.61	---
TOTAL	18.32	19.70	46.71	29.81	27.36	30.93	31.73	58.01	138.50	45.84	18.31	20.70
MEAN	.59	.66	1.51	.96	.94	1.00	1.06	1.87	4.62	1.48	.59	.69
MAX	1.3	1.1	14	2.3	1.6	6.2	5.6	8.3	20	12	.82	.84
MIN	.48	.48	.59	.63	.64	.41	.24	.58	.84	.47	.53	.57
AC-FT	36	39	93	59	54	61	63	115	275	91	36	41

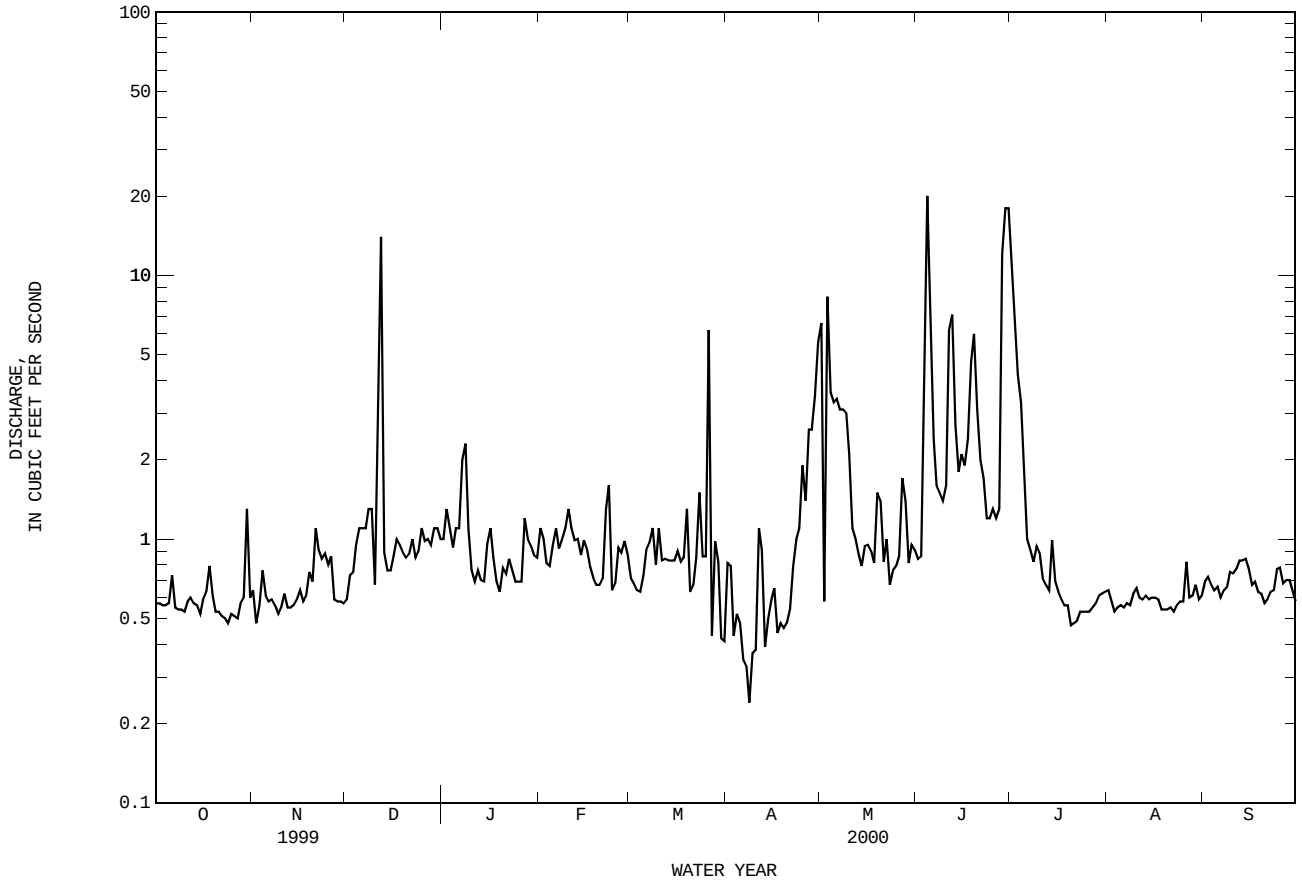
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000h, BY WATER YEAR (WY)

MEAN	33.8	38.3	30.9	15.2	34.8	36.4	43.5	69.9	50.0	9.49	4.10	2.93
MAX	294	341	384	110	215	134	399	418	509	75.7	12.8	9.57
(WY)	1982	1982	1992	1992	1997	1997	1990	1989	1989	1982	1997	1994
MIN	.59	.51	.000	.96	.94	1.00	1.06	.71	.46	.032	.000	.053
(WY)	2000	1985	1991	2000	2000	2000	2000	1984	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000h	
ANNUAL TOTAL	1832.71		485.92			
ANNUAL MEAN	5.02		1.33		31.6	
HIGHEST ANNUAL MEAN					106	1982
LOWEST ANNUAL MEAN					.91	1984
HIGHEST DAILY MEAN	224	May 30	20	Jun 4	3180	Apr 27 1990
LOWEST DAILY MEAN	.48	Oct 24	.24	Apr 8	.00	Sep 12 1984
ANNUAL SEVEN-DAY MINIMUM	.51	Oct 21	.38	Apr 4	.00	Dec 26 1987
INSTANTANEOUS PEAK FLOW			55	Dec 11	3810	Apr 27 1990
INSTANTANEOUS PEAK STAGE			8.58	Dec 11	22.07	Apr 27 1990
INSTANTANEOUS LOW FLOW					.00	Sep 12 1984
ANNUAL RUNOFF (AC-FT)	3640		964		22890	
10 PERCENT EXCEEDS	5.5		2.0		44	
50 PERCENT EXCEEDS	1.2		.77		2.8	
90 PERCENT EXCEEDS	.56		.53		.19	

h see PERIOD OF RECORD paragraph

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.--Sep 1952 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 sea level. Satellite telemeter at station.

REMARKS.--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 x 13.0-foot broome-type gates and two 30-inch steel pipes controlled by slide gates. Deliberate impoundment began Sep 29, 1952. From Aug 1950 to Sep 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.--Record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, Sep 30, 1999, elevation, 685.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 114,600 acre-ft, Jun 5, elevation, 700.35 ft; minimum contents, 50,780 acre-ft, Sep 30, elevation, 682.50 ft.

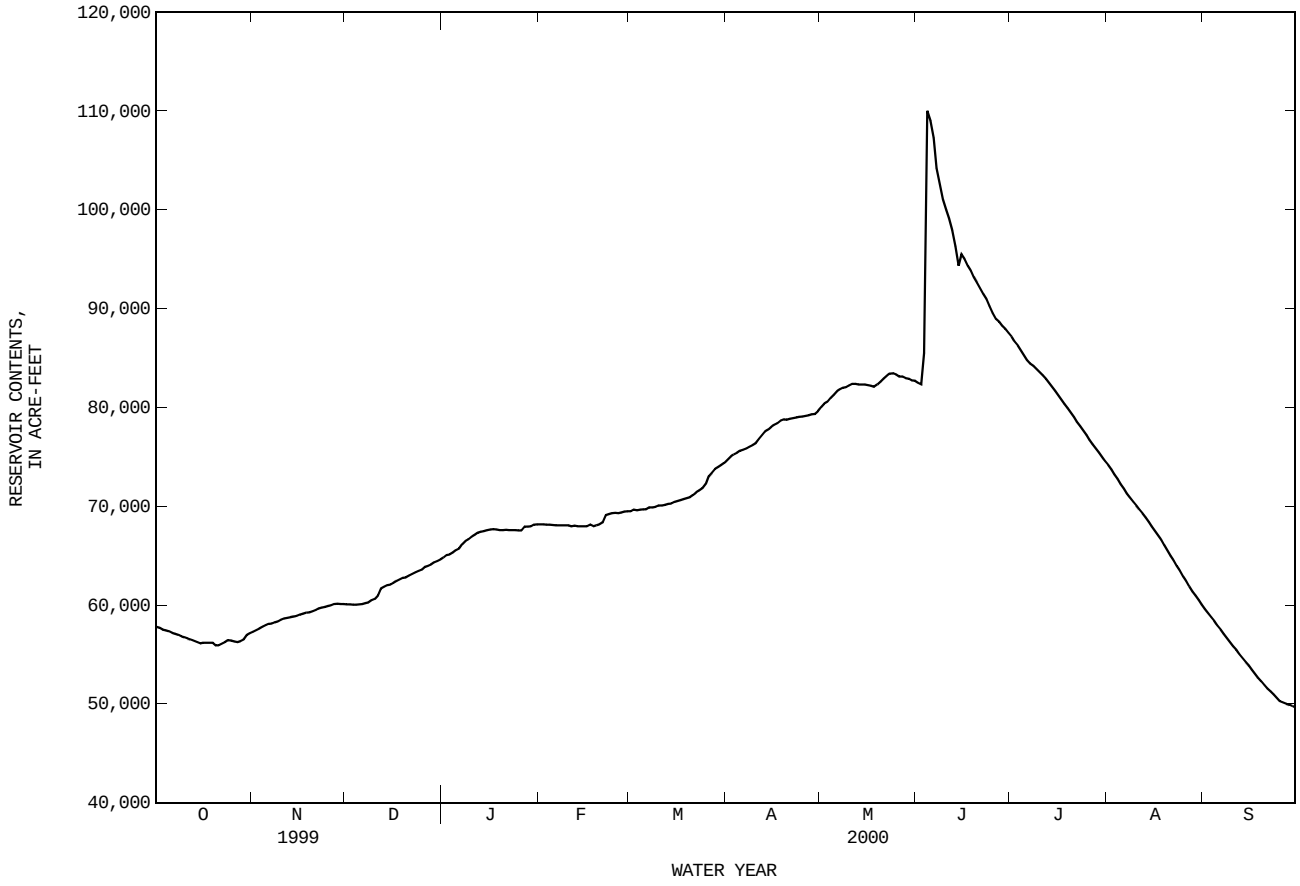
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57810	57290	60060	64790	68150	69490	74710	80040	82470	87140	74140	59590
2	57700	57440	60060	65030	68150	69650	75010	80350	82290	86660	73700	59150
3	57520	57610	60030	65130	68120	69580	75220	80560	85490	86250	73210	58740
4	57440	57810	60030	65310	68120	69650	75390	80950	110000	85740	72740	58360
5	57350	57960	60060	65530	68090	69680	75590	81270	109000	85230	72220	57900
6	57180	58070	60090	65680	68060	69680	75690	81580	107300	84760	71760	57490
7	57090	58130	60180	66150	68060	69870	75830	81830	104200	84400	71260	57060
8	57000	58250	60270	66460	68060	69870	76000	81970	102600	84180	70840	56630
9	56830	58330	60480	66640	68060	69940	76170	82040	101000	83860	70420	56260
10	56740	58510	60630	66900	68060	70070	76340	82220	99990	83580	70040	55830
11	56600	58650	60980	67080	67960	70070	76820	82360	99110	83250	69650	55460
12	56480	58710	61640	67300	68030	70130	77160	82360	97900	82900	69260	54980
13	56370	58770	61850	67400	67960	70230	77540	82290	96300	82470	68850	54610
14	56260	58830	62000	67490	67960	70260	77740	82290	94310	82080	68370	54240
15	56110	58890	62060	67580	67960	70420	78020	82290	95480	81650	67930	53880
16	56170	59030	62240	67650	67960	70520	78230	82260	94990	81200	67490	53440
17	56170	59120	62420	67680	68120	70620	78400	82180	94310	80740	67020	53050
18	56170	59210	62600	67650	67960	70710	78640	82080	93780	80320	66580	52630
19	56170	59240	62750	67580	68060	70810	78780	82290	93140	79900	66050	52270
20	55910	59360	62780	67580	68150	70910	78750	82610	92590	79440	65500	51860
21	55910	59470	62960	67620	68340	71140	78850	82930	92030	78990	64940	51560
22	56080	59650	63140	67580	69100	71400	78920	83180	91440	78500	64450	51260
23	56260	59740	63290	67580	69200	71590	78960	83400	90930	78090	63960	50940
24	56430	59800	63420	67580	69300	71820	79020	83430	90230	77640	63480	50580
25	56400	59920	63570	67550	69330	72250	79060	83320	89530	77190	62870	50260
26	56310	59980	63840	67550	69300	73010	79130	83110	88960	76710	62390	50130
27	56260	60090	63960	67930	69360	73370	79200	83110	88650	76240	61880	49990
28	56340	60120	64080	67930	69460	73770	79300	82970	88270	75830	61370	49880
29	56510	60090	64300	67960	69490	73940	79340	82900	87930	75420	60950	49780
30	56940	60090	64420	68120	---	74140	79620	82720	87510	74980	60480	49620
31	57150	---	64600	68150	---	74370	---	82680	---	74540	60030	---
MAX	57810	60120	64600	68150	69490	74370	79620	83430	110000	87140	74140	59590
MIN	55910	57290	60030	64790	67960	69490	74710	80040	82290	74540	60030	49620
(+)	684.73	685.72	687.17	688.27	688.68	690.14	691.64	692.49	693.80	690.19	685.70	682.08
(@)	-840	+2940	+4510	+3550	+1340	+4880	+5250	+3060	+4830	-12970	-14510	-10410

CAL YR 1999 MAX 92880 MIN 55910 (@) -15500
WTR YR 2000 MAX 110000 MIN 49620 (@) -8370

(+) 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.--Jul 1947 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 604.22 ft above sea level. 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 by Benbrook Lake (station 08046500, conservation pool storage 85,650 acre-ft), 1.5 mi upstream. There is a diversion 1.0 mi upstream for Pecan Valley Golf Course. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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, c82,900 ft^3/s May 17, 1949 (gage height, 28.72 ft); no flow at times most years. Maximum stage since at least 1922, that of May 17, 1949.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.6	2.5	3.2	2.0	83	4.3	6.3	11	28	7.5	46
2	2.5	2.7	2.6	3.0	2.0	101	2.3	2.1	11	28	6.8	46
3	2.4	2.9	2.8	3.1	2.0	101	2.4	2.6	25	18	7.2	46
4	2.4	2.8	2.6	3.0	2.0	101	3.2	2.2	189	10	7.0	46
5	2.5	4.2	2.7	3.0	2.0	99	2.3	2.4	501	9.4	7.4	46
6	2.4	4.6	2.5	2.8	2.0	71	2.2	2.3	1350	8.0	7.1	45
7	2.8	6.0	2.5	4.1	1.9	46	2.3	3.3	1620	7.9	7.6	46
8	9.6	6.1	2.7	3.8	1.9	48	2.1	3.1	1180	7.8	7.4	45
9	15	6.4	3.1	2.2	2.1	48	2.1	2.8	837	7.8	7.4	46
10	15	6.6	2.4	2.1	2.1	51	2.2	3.5	853	7.6	7.3	46
11	14	6.9	4.3	1.9	1.9	47	4.8	3.3	819	7.8	6.5	46
12	11	5.7	5.6	2.2	1.8	47	4.4	3.2	811	7.8	7.0	46
13	4.4	4.9	1.8	2.4	2.0	47	1.9	3.4	806	7.8	6.4	46
14	4.6	4.1	1.8	2.6	2.3	33	1.8	3.0	806	7.8	14	46
15	4.3	3.8	2.0	2.5	2.5	3.8	1.8	3.1	593	7.6	53	47
16	4.2	3.2	2.5	2.5	2.3	3.7	1.9	3.0	230	7.5	52	47
17	5.0	2.8	3.5	2.5	2.4	3.1	1.8	3.2	311	7.5	51	47
18	5.4	2.3	4.6	2.6	2.4	3.1	3.6	3.5	305	7.4	51	46
19	4.9	1.7	4.7	2.2	2.4	3.5	2.9	5.1	303	7.6	51	48
20	4.3	2.5	4.2	2.4	2.4	3.1	2.5	3.4	219	7.4	50	56
21	3.8	2.5	3.4	2.5	2.2	4.6	2.6	2.9	136	7.8	51	60
22	3.3	3.8	3.4	2.2	7.6	4.5	2.8	2.5	116	7.6	50	59
23	3.3	3.4	3.1	2.5	18	4.1	2.6	2.2	113	7.6	50	60
24	4.4	2.8	3.3	2.5	53	3.6	2.5	15	109	7.7	49	62
25	3.6	3.1	3.4	2.5	56	4.0	2.4	11	108	7.6	49	61
26	4.1	2.8	3.3	2.4	61	15	2.2	11	86	7.8	48	62
27	4.5	2.5	3.1	3.5	71	3.4	2.5	11	72	7.8	47	62
28	4.8	2.7	3.0	2.2	81	13	2.0	11	72	7.6	47	62
29	4.9	2.6	2.9	2.0	70	3.9	2.3	11	71	8.0	46	63
30	10	2.6	3.4	2.0	---	3.4	2.8	10	60	8.1	46	63
31	3.2	---	3.2	2.0	---	3.2	---	10	---	7.6	46	---
TOTAL	169.0	111.6	96.9	80.4	462.2	1006.0	77.5	162.4	12723	293.9	943.6	1547
MEAN	5.45	3.72	3.13	2.59	15.9	32.5	2.58	5.24	424	9.48	30.4	51.6
MAX	15	6.9	5.6	4.1	81	101	4.8	15	1620	28	53	63
MIN	2.4	1.7	1.8	1.9	1.8	3.1	1.8	2.1	11	7.4	6.4	45
AC-FT	335	221	192	159	917	2000	154	322	25240	583	1870	3070

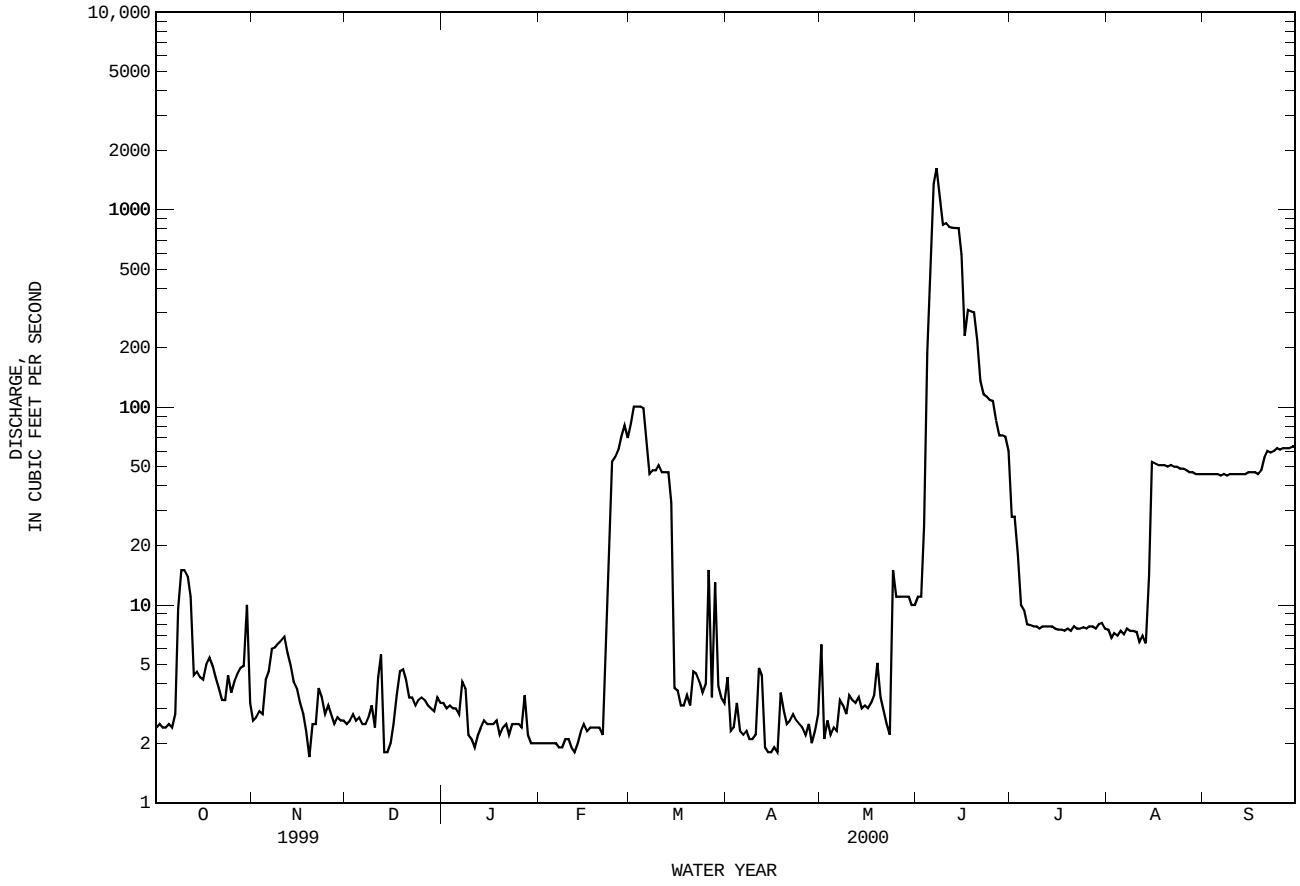
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000z, BY WATER YEAR (WY)

MEAN	23.1	91.6	59.0	82.4	87.9	168	110	223	214	59.0	24.9	18.1
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	.000	.053	.042	.000	.000	.13	.10	.000	.000	.029	.000	.000
(WY)	1953	1971	1954	1953	1953	1953	1959	1959	1953	1953	1953	1953

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000z	
ANNUAL TOTAL	4627.50		17673.5			
ANNUAL MEAN	12.7		48.3		96.8	
HIGHEST ANNUAL MEAN					514	1992
LOWEST ANNUAL MEAN					.27	1953
HIGHEST DAILY MEAN	404	Jun 3	1620	Jun 7	6320	May 3 1990
LOWEST DAILY MEAN	.16	May 13	1.7	Nov 19	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	.21	May 18	2.0	Feb 6	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			1960	Jun 4	67400	May 3 1990
INSTANTANEOUS PEAK STAGE			7.51	Jun 4	14.71	May 3 1990
ANNUAL RUNOFF (AC-FT)	9180		35060		70110	
10 PERCENT EXCEEDS	46		63		195	
50 PERCENT EXCEEDS	2.5		4.4		6.6	
90 PERCENT EXCEEDS	.36		2.2		.10	

c 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.
z Period of regulated streamflow.

08047000 CLEAR FORK TRINITY RIVER NEAR BENBROOK, TX--Continued



08047050 MARY'S CREEK AT BENBROOK, TX

LOCATION.--Lat 32°41'44", long 97°15'53", 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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation. Low flow is affected at times by diversions from small dams upstream. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0100	20,300	16.66	No other peak greater than base discharge.			

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

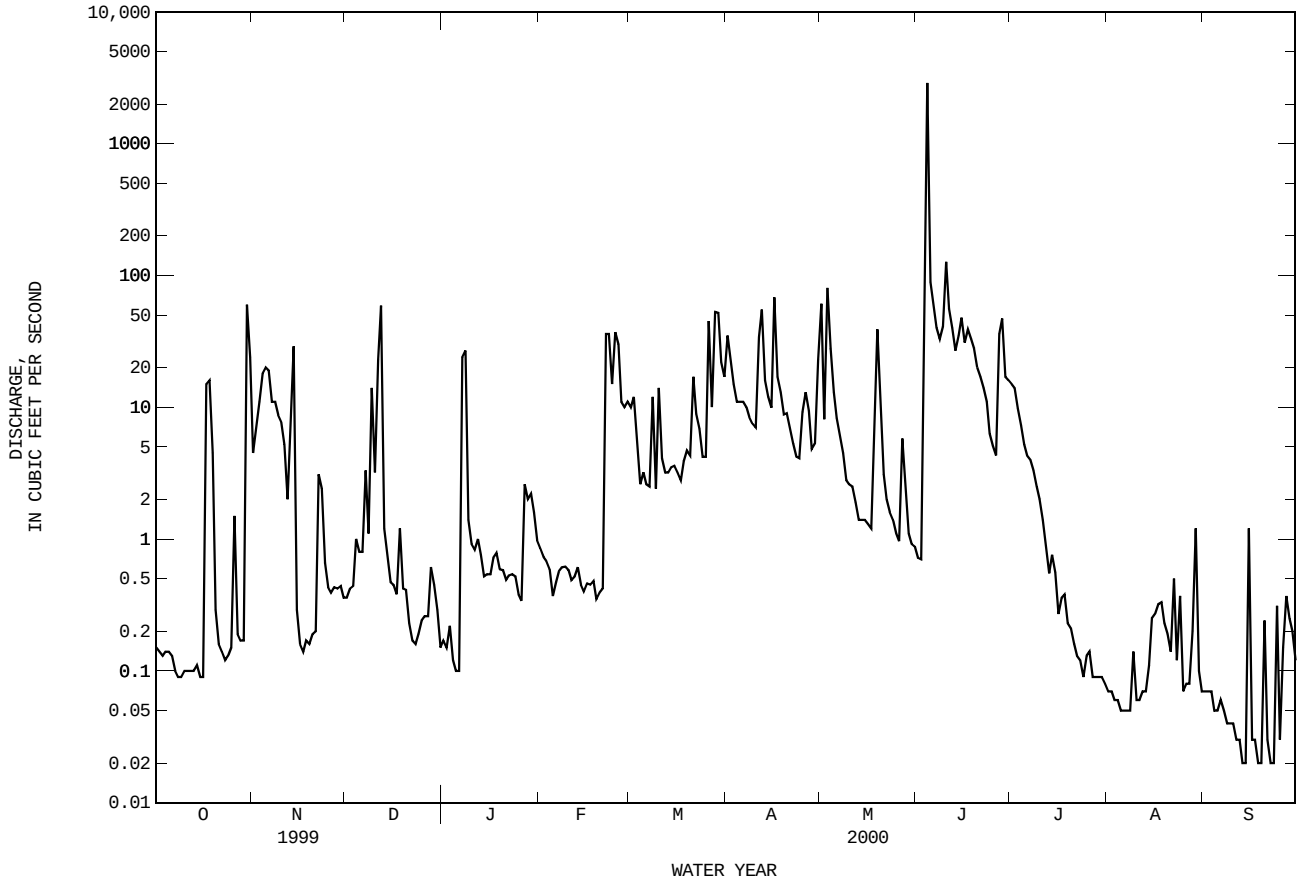
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	4.5	.36	.17	.85	10	35	61	.72	15	.07	.07
2	.14	7.2	.42	.15	.73	12	23	8.1	.70	14	.07	.07
3	.13	11	.44	.22	.68	5.9	15	80	110	9.8	.06	.07
4	.14	18	1.0	.12	.59	2.6	11	28	2880	7.3	.06	.05
5	.14	20	.80	.10	.37	3.2	11	13	89	5.2	.05	.05
6	.13	19	.80	.10	.47	2.6	11	8.3	58	4.3	.05	.06
7	.10	11	3.3	24	.57	2.5	10	6.1	40	4.0	.05	.05
8	.09	11	1.1	27	.61	12	8.4	4.5	33	3.3	.05	.04
9	.09	8.7	14	1.4	.62	2.4	7.5	2.8	41	2.5	.14	.04
10	.10	7.8	3.2	.92	.58	14	7.0	2.6	127	2.0	.06	.04
11	.10	5.2	23	.83	.49	4.1	34	2.5	56	1.4	.06	.03
12	.10	2.0	59	1.0	.52	3.2	55	1.9	40	.88	.07	.03
13	.10	6.3	1.2	.76	.61	3.2	16	1.4	27	.55	.07	.02
14	.11	29	.73	.52	.45	3.5	12	1.4	35	.76	.11	.02
15	.09	.29	.47	.54	.40	3.6	9.9	1.4	48	.56	.25	1.2
16	.09	.16	.45	.54	.46	3.2	68	1.3	31	.27	.27	.03
17	15	.14	.38	.72	.45	2.8	17	1.2	39	.36	.32	.03
18	16	.17	1.2	.78	.48	3.9	13	4.1	33	.38	.33	.02
19	4.5	.16	.42	.59	.35	4.7	8.8	39	28	.23	.23	.02
20	.29	.19	.41	.58	.39	4.3	9.0	11	20	.21	.19	.24
21	.16	.20	.23	.49	.42	17	6.9	3.1	17	.16	.14	.03
22	.14	3.1	.17	.53	36	8.9	5.3	2.0	14	.13	.50	.02
23	.12	2.4	.16	.54	36	6.9	4.2	1.6	11	.12	.12	.02
24	.13	.66	.19	.52	15	4.2	4.1	1.4	6.3	.09	.37	.31
25	.15	.43	.24	.38	37	4.2	9.2	1.1	5.1	.13	.07	.03
26	1.5	.39	.26	.34	30	45	13	.96	4.3	.14	.08	.15
27	.19	.43	.26	2.6	11	10	9.4	5.8	36	.09	.08	.37
28	.17	.42	.61	2.0	10	53	4.8	2.7	47	.09	.20	.25
29	.17	.44	.45	2.2	11	52	5.3	1.1	17	.09	1.2	.20
30	60	.36	.29	1.6	---	22	23	.92	16	.09	.10	.12
31	24	---	.15	.98	---	17	---	.88	---	.08	.07	---
TOTAL	124.32	170.64	115.69	73.22	197.09	343.9	466.8	301.16	3910.12	74.21	5.49	3.68
MEAN	4.01	5.69	3.73	2.36	6.80	11.1	15.6	9.71	130	2.39	.18	.12
MAX	60	29	59	27	37	53	68	80	2880	15	1.2	1.2
MIN	.09	.14	.15	.10	.35	2.4	4.1	.88	.70	.08	.05	.02
AC-FT	247	338	229	145	391	682	926	597	7760	147	11	7.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	5.27	7.30	6.92	7.15	9.32	13.1	15.2	48.6	58.2	2.82	.24	.84
MAX	6.53	8.91	10.1	11.9	11.9	15.0	15.6	87.5	130	5.86	.31	1.36
(WY)	1999	1999	1999	1999	1999	1999	2000	1999	2000	1999	1998	1999
MIN	4.01	5.69	3.73	2.36	6.80	11.1	14.8	9.71	1.33	.21	.18	.12
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	1998	1998	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	6253.94		5786.32			
ANNUAL MEAN	17.1		15.8		17.0	
HIGHEST ANNUAL MEAN					18.2	1999
LOWEST ANNUAL MEAN					15.8	2000
HIGHEST DAILY MEAN	1460	May 30	2880	Jun 4	2880	Jun 4 2000
LOWEST DAILY MEAN	.09	Jul 31	.02	Sep 13	.00	Aug 21 1998
ANNUAL SEVEN-DAY MINIMUM	.09	Aug 27	.03	Sep 8	.00	Aug 20 1998
INSTANTANEOUS PEAK FLOW			20300	Jun 4	20300	Jun 4 2000
INSTANTANEOUS PEAK STAGE			16.66	Jun 4	16.66	Jun 4 2000
ANNUAL RUNOFF (AC-FT)	12400		11480		12300	
10 PERCENT EXCEEDS	35		27		28	
50 PERCENT EXCEEDS	4.2		.87		1.5	
90 PERCENT EXCEEDS	.11		.08		.07	

08047050 MARY'S 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 sea level. Prior to Apr 3, 1970, various nonrecording and recording gages were located within 650 ft of present site at different datums. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Sep 1952, at least 10% of contributing drainage area has been regulated by Benbrook Lake (station 08046500, conservation pool storage 85,650 acre-ft) 10 mi upstream. 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. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	17	4.1	9.2	17	17	55	226	13	33	3.2	7.4
2	1.3	10	5.7	9.1	15	30	34	25	13	31	1.9	8.2
3	4.2	7.8	6.3	11	15	43	19	73	68	27	2.5	11
4	1.9	7.6	6.8	9.2	13	44	15	40	3860	17	2.4	8.1
5	.83	6.9	5.8	9.3	14	46	14	23	373	15	1.9	9.0
6	1.0	6.9	6.5	9.3	13	41	12	18	1110	11	1.4	6.4
7	.94	6.3	7.6	51	13	14	9.4	14	1420	9.0	.93	6.2
8	.65	6.9	9.3	121	12	23	7.9	11	1040	9.6	.58	6.7
9	2.1	5.8	37	21	12	12	7.8	9.7	688	9.2	.34	8.6
10	13	6.7	17	18	12	52	8.2	8.3	1180	9.7	.51	9.5
11	15	6.9	32	22	11	22	87	8.3	744	9.1	.65	9.8
12	12	8.8	302	16	12	13	113	7.5	710	6.5	1.7	6.6
13	7.6	6.6	26	15	12	11	23	5.2	692	6.6	2.0	5.7
14	2.8	8.0	15	15	12	25	16	6.6	779	5.2	2.1	6.1
15	2.4	9.2	12	14	12	22	14	6.9	658	6.1	7.7	4.5
16	2.9	8.7	12	14	12	11	119	7.2	136	5.1	7.3	6.4
17	22	8.6	14	14	12	10	21	4.8	295	4.0	8.8	6.8
18	26	7.5	19	12	13	12	16	8.1	234	2.6	7.4	7.0
19	33	6.2	17	13	11	12	15	63	253	2.7	9.2	5.7
20	12	4.9	15	15	11	9.2	10	45	196	2.3	6.7	5.4
21	8.7	5.7	14	14	11	32	8.5	17	110	2.9	8.1	9.0
22	6.4	8.6	13	14	179	35	9.7	11	83	2.4	9.1	9.4
23	6.5	27	13	14	142	21	9.7	6.7	81	3.5	7.6	9.5
24	4.9	9.8	11	12	62	18	7.7	4.4	77	3.5	5.8	20
25	6.6	7.1	10	11	66	13	8.5	19	73	2.3	6.5	21
26	4.2	6.3	11	11	31	116	9.4	20	64	2.3	8.5	19
27	3.4	6.3	11	66	26	24	11	24	92	1.6	7.5	18
28	4.1	5.9	9.6	32	23	153	11	32	88	2.2	8.0	17
29	4.3	5.0	9.2	19	20	81	9.1	25	53	2.8	6.3	16
30	176	4.2	8.8	19	---	23	14	19	48	2.8	7.4	17
31	31	---	9.0	18	---	17	---	16	---	3.3	7.3	---
TOTAL	419.32	243.2	689.7	648.1	814	1002.2	714.9	804.7	15231	251.3	151.31	301.0
MEAN	13.5	8.11	22.2	20.9	28.1	32.3	23.8	26.0	508	8.11	4.88	10.0
MAX	176	27	302	121	179	153	119	226	3860	33	9.2	21
MIN	.65	4.2	4.1	9.1	11	9.2	7.7	4.4	13	1.6	.34	4.5
AC-FT	832	482	1370	1290	1610	1990	1420	1600	30210	498	300	597

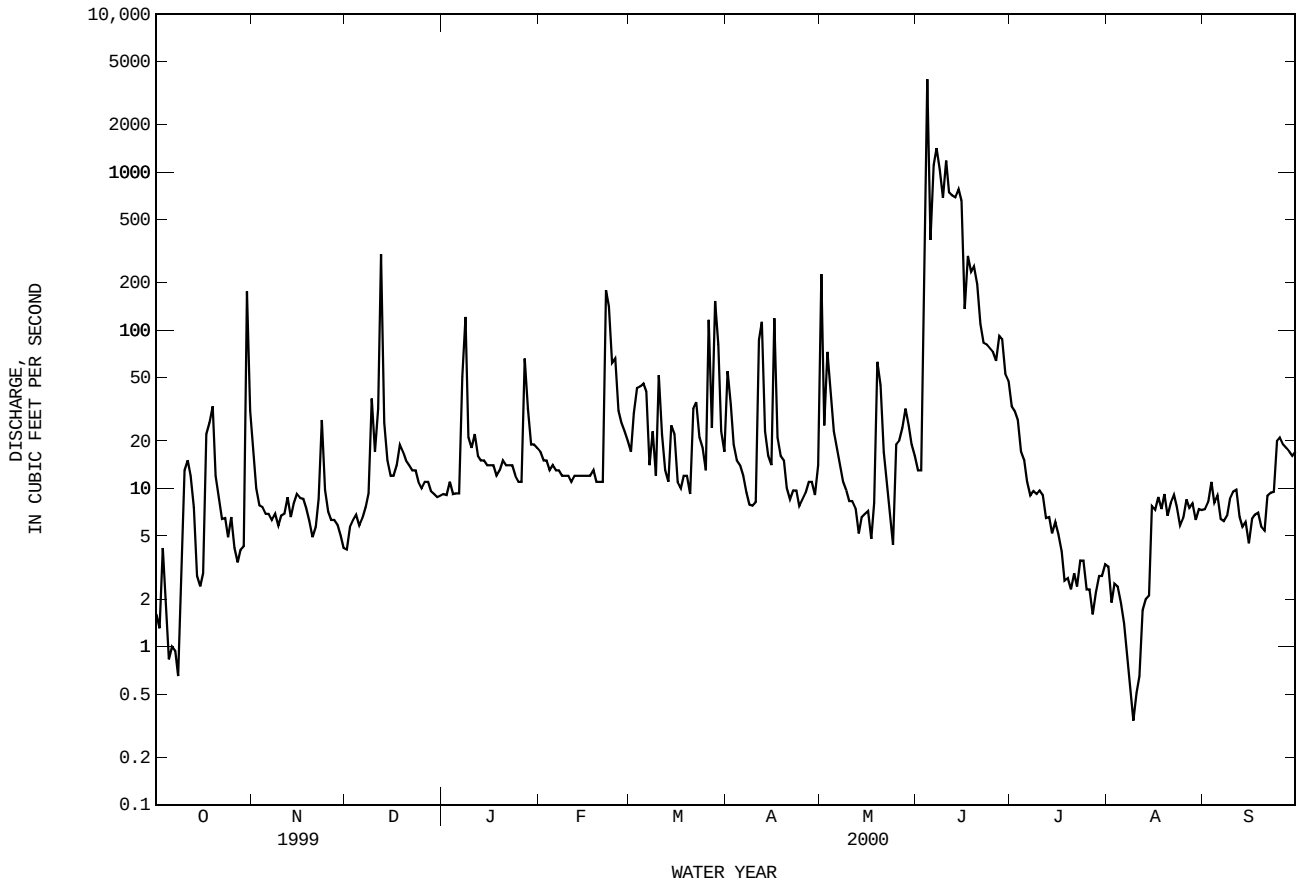
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000z, BY WATER YEAR (WY)

MEAN	57.0	110	88.4	112	132	233	171	314	266	73.4	31.6	31.1
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	.000	.84	1.68	2.28	2.84	.91	3.12	3.41	.27	.75	.54	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000z	
ANNUAL TOTAL	13884.02		21270.73			
ANNUAL MEAN	38.0		58.1		135	
HIGHEST ANNUAL MEAN					660	1992
LOWEST ANNUAL MEAN					4.55	1954
HIGHEST DAILY MEAN	2540	May 30	3860	Jun 4	11000	Mar 11 1990
LOWEST DAILY MEAN	.65	Oct 8	.34	Aug 9	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	1.5	Oct 2	.87	Aug 6	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			19800	Jun 4	20900	May 2 1990
INSTANTANEOUS PEAK STAGE			16.52	Jun 4	16.80	May 2 1990
ANNUAL RUNOFF (AC-FT)	27540		42190		97750	
10 PERCENT EXCEEDS	41		73		296	
50 PERCENT EXCEEDS	14		11		16	
90 PERCENT EXCEEDS	4.2		3.3		1.0	

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 Sep 1976. Biochemical data: Oct 1967 to Sep 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 sea level. Prior to Aug 22, 1954, at site 1,200 ft upstream at same datum. Aug 22, 1954, to Oct 15, 1955, at site 2,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct 1920, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400) on the West Fork Trinity River and by Benbrook Lake (station 08046500) on the Clear Fork Trinity River, combined conservation pool storage 122,700 acre-ft. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake (station 08046500, conservation pool storage 85,650 acre-ft). The city of Fort Worth diverts water from river upstream from station and from Cedar Creek Reservoir (station 08063010, conservation pool storage 637,050 acre-ft) 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

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

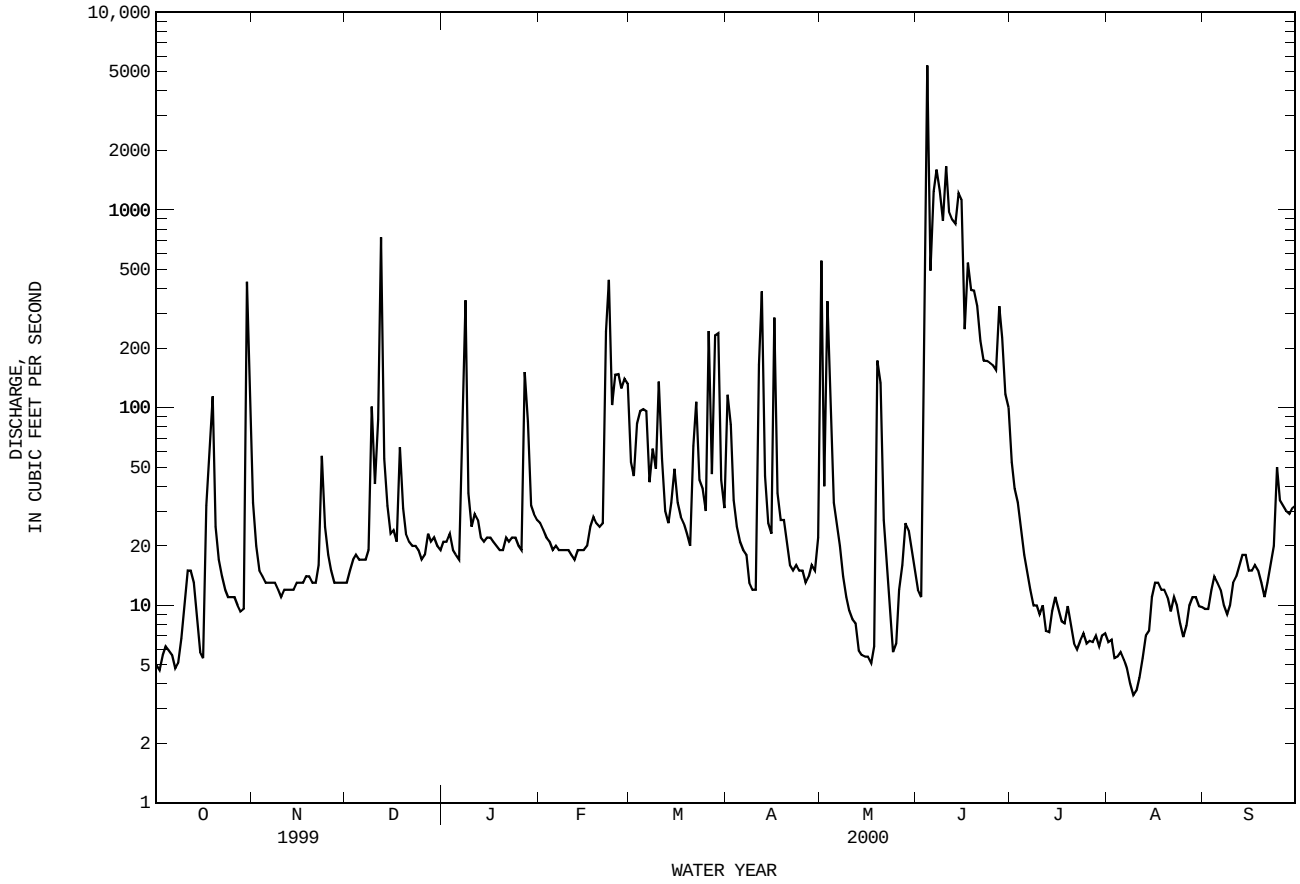
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	33	13	21	26	53	116	554	12	53	6.5	9.6
2	4.7	20	15	21	24	45	82	40	11	39	6.7	9.6
3	5.6	15	17	23	22	83	34	345	64	33	5.4	12
4	6.2	14	18	19	21	96	25	86	5380	24	5.5	14
5	5.9	13	17	18	19	98	21	33	493	18	5.8	13
6	5.6	13	17	17	20	96	19	26	1240	15	5.3	12
7	4.8	13	17	100	19	42	18	20	1600	12	4.8	10
8	5.1	13	19	349	19	62	13	14	1250	10	4.0	9.0
9	6.8	12	101	37	19	49	12	11	882	10	3.5	10
10	9.8	11	41	25	19	135	12	9.4	1660	9.0	3.7	13
11	15	12	87	29	18	55	165	8.5	981	10	4.3	14
12	15	12	726	27	17	30	387	8.1	895	7.4	5.4	16
13	13	12	55	22	19	26	45	5.9	851	7.3	7.0	18
14	8.6	12	32	21	19	33	26	5.6	1220	9.3	7.4	18
15	5.8	13	23	22	19	49	23	5.5	1130	11	11	15
16	5.4	13	24	22	20	33	285	5.5	249	9.6	13	15
17	32	13	21	21	25	28	37	5.1	541	8.3	13	16
18	60	14	63	20	28	26	27	6.2	394	8.1	12	15
19	114	14	31	19	26	23	27	173	391	9.9	12	13
20	25	13	23	19	25	20	21	133	327	8.0	11	11
21	17	13	21	22	26	64	16	27	218	6.4	9.3	13
22	14	16	20	21	243	107	15	17	173	6.0	11	16
23	12	57	20	22	443	43	16	9.7	172	6.6	10	20
24	11	25	19	22	103	39	15	5.8	169	7.2	8.1	50
25	11	18	17	20	147	30	15	6.4	164	6.4	6.9	34
26	11	15	18	19	148	244	13	12	155	6.6	7.9	32
27	10	13	23	151	125	46	14	16	326	6.5	10	30
28	9.3	13	21	85	140	231	16	26	226	7.0	11	29
29	9.6	13	22	32	132	237	15	24	117	6.2	11	31
30	432	13	20	29	---	43	22	19	100	7.0	9.9	32
31	95	---	19	27	---	31	---	15	---	7.2	9.8	---
TOTAL	985.2	481	1580	1302	1931	2197	1552	1672.7	21391	385.0	252.2	550.2
MEAN	31.8	16.0	51.0	42.0	66.6	70.9	51.7	54.0	713	12.4	8.14	18.3
MAX	432	57	726	349	443	244	387	554	5380	53	13	50
MIN	4.7	11	13	17	17	20	12	5.1	11	6.0	3.5	9.0
AC-FT	1950	954	3130	2580	3830	4360	3080	3320	42430	764	500	1090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	289	286	271	246	381	513	603	1136	783	242	115	151
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	.12	3.64	5.02	6.08	5.57	4.72	7.71	15.2	5.73	1.33	.000	.000
(WY)	1940	1956	1935	1930	1940	1940	1930	1959	1954	1956	1956	1930

08048000 WEST FORK TRINITY RIVER AT FORT WORTH, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL TOTAL	27502.2		34279.3			
ANNUAL MEAN	75.3		93.7		418	
HIGHEST ANNUAL MEAN					1823	1990
LOWEST ANNUAL MEAN					15.6	1956
HIGHEST DAILY MEAN	4560	May 30	5380	Jun 4	47300	Apr 25 1922
LOWEST DAILY MEAN	4.7	Jul 26	3.5	Aug 9	.00	Aug 2 1924
ANNUAL SEVEN-DAY MINIMUM	5.2	Sep 27	4.4	Aug 6	.00	Jul 24 1925
INSTANTANEOUS PEAK FLOW			19200	Jun 4	85000	Apr 25 1922
INSTANTANEOUS PEAK STAGE			6.90	Jun 4	25.91	May 17 1949
ANNUAL RUNOFF (AC-FT)	54550		67990		302800	
10 PERCENT EXCEEDS	113		166		1070	
50 PERCENT EXCEEDS	22		19		40	
90 PERCENT EXCEEDS	8.7		6.7		6.0	



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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since installation of gage in Oct 1976, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400) on the West Fork Trinity River and by Benbrook Lake (station 08046500) on the Clear Fork Trinity River, combined conservation pool storage 122,700 acre-ft. At times, flow is sustained by releases from the flood-detention pool of Benbrook Lake. There are many diversions upstream from this station for municipal, industrial and other uses.

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

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

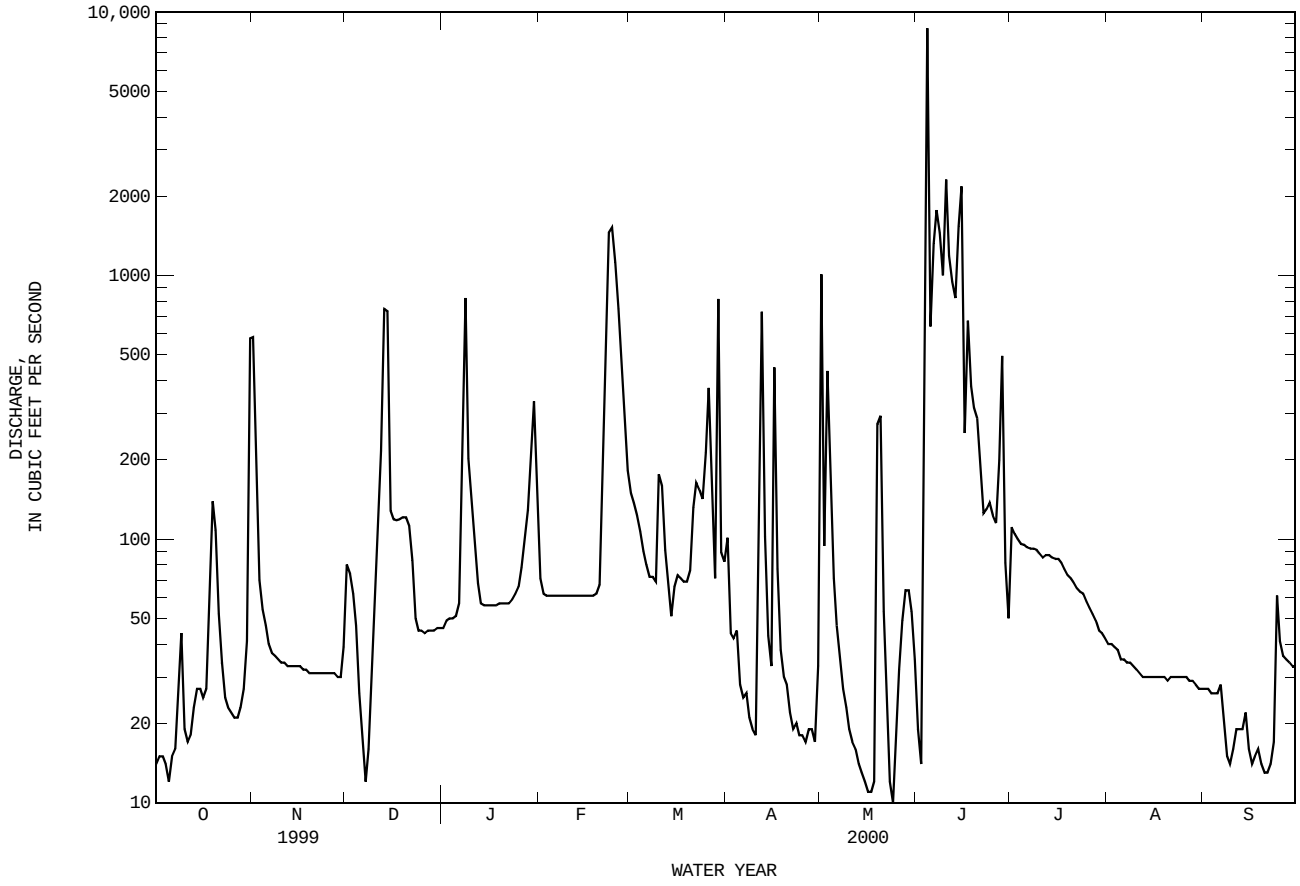
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	583	80	46	71	149	101	1010	19	111	40	27
2	15	224	74	49	62	137	44	94	14	105	40	27
3	15	70	62	50	61	123	42	434	47	100	39	26
4	14	54	47	50	61	107	45	171	8670	96	38	26
5	12	47	26	51	61	90	28	71	640	95	35	26
6	15	40	17	57	61	80	25	47	1320	93	35	28
7	16	37	12	253	61	72	26	35	1770	92	34	20
8	26	36	16	822	61	72	21	27	1450	92	34	15
9	44	35	41	202	61	69	19	23	1000	91	33	14
10	19	34	75	130	61	176	18	19	2310	88	32	16
11	17	34	129	92	61	159	109	17	1190	85	31	19
12	18	33	216	68	61	91	728	16	947	87	30	19
13	23	33	746	57	61	66	102	14	820	87	30	19
14	27	33	732	56	61	51	43	13	1540	85	30	22
15	27	33	128	56	61	66	33	12	2180	84	30	16
16	25	33	119	56	61	73	447	11	252	84	30	14
17	27	32	118	56	61	71	77	11	674	81	30	15
18	72	32	119	56	61	69	38	12	380	77	30	16
19	139	31	121	57	62	69	30	273	315	73	30	14
20	108	31	121	57	67	76	28	293	287	71	29	13
21	52	31	112	57	223	132	22	53	182	68	30	13
22	34	31	83	57	464	164	19	27	125	65	30	14
23	25	31	50	59	1450	154	20	12	130	63	30	17
24	23	31	45	62	1520	142	18	10	137	62	30	61
25	22	31	45	66	1120	213	18	17	123	58	30	41
26	21	31	44	78	747	374	17	32	115	55	30	36
27	21	31	45	102	425	161	19	49	199	52	29	35
28	23	30	45	129	264	71	19	64	495	49	29	34
29	27	30	45	202	182	815	17	64	81	45	28	33
30	41	39	46	333	---	89	33	53	50	44	27	33
31	577	---	46	149	---	82	---	35	---	42	27	---
TOTAL	1539	1801	3605	3615	7633	4263	2206	3019	27462	2380	980	709
MEAN	49.6	60.0	116	117	263	138	73.5	97.4	915	76.8	31.6	23.6
MAX	577	583	746	822	1520	815	728	1010	8670	111	40	61
MIN	12	30	12	46	61	51	17	10	14	42	27	13
AC-FT	3050	3570	7150	7170	15140	8460	4380	5990	54470	4720	1940	1410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	415	465	465	330	558	903	666	1651	1221	224	99.0	84.9
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000		
ANNUAL TOTAL	38900.9		59212				
ANNUAL MEAN	107		162		590		
HIGHEST ANNUAL MEAN					2071		1992
LOWEST ANNUAL MEAN					40.1		1978
HIGHEST DAILY MEAN	5280	May 30	8670	Jun 4	35200	May 3	1990
LOWEST DAILY MEAN	8.7	Jul 27	10	May 24	.72	Sep 7	1998
ANNUAL SEVEN-DAY MINIMUM	11	Sep 24	13	May 12	.80	Sep 5	1998
INSTANTANEOUS PEAK FLOW			22900	Jun 4	46600	May 2	1990
INSTANTANEOUS PEAK STAGE			28.27	Jun 4	38.02	May 2	1990
ANNUAL RUNOFF (AC-FT)	77160		117400		427500		
10 PERCENT EXCEEDS	181		277		1520		
50 PERCENT EXCEEDS	39		50		52		
90 PERCENT EXCEEDS	15		17		15		

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued



08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1976 to current year.
BIOCHEMICAL DATA: Oct 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1976 to current year.
pH: Oct 1976 to current year.
WATER TEMPERATURE: Oct 1976 to current year.
DISSOLVED OXYGEN: Oct 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since Oct 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 (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. 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, Nov 6, 1978; minimum, 90 microsiemens, Sep 10, 1992.
pH: Maximum, 9.8 units, Aug 8, Sep 2, 1980; minimum, 6.6 units, Aug 15, 1987.
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, 618 microsiemens, Sep 24; minimum, 102 microsiemens, Jun 7.
pH: Maximum, 9.0 units, May 20, 21; minimum, 7.0 units, Feb 25, 26.
WATER TEMPERATURE: Maximum, 36.5°C, Jul 14; minimum, 3.0°C, Jan 27.
DISSOLVED OXYGEN: Maximum, 13.9 mg/L, May 14, 15; minimum, 0.4 mg/L, Aug 4.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	527	515	521	429	388	418	555	540	546	456	429	437
2	535	521	528	433	423	428	562	539	551	456	431	443
3	543	523	534	447	427	438	564	534	554	458	430	441
4	551	539	546	431	422	426	570	541	553	455	423	431
5	549	534	544	451	431	442	554	546	551	452	412	436
6	542	524	536	479	451	465	553	538	546	448	415	430
7	563	523	547	481	471	477	560	551	555	484	256	435
8	574	557	567	487	472	480	588	560	574	419	273	368
9	581	403	496	492	477	485	---	---	e500	437	410	422
10	477	417	440	507	484	493	461	426	448	449	436	443
11	545	476	507	485	479	482	427	208	400	---	---	e450
12	547	514	532	500	482	489	373	159	293	465	453	461
13	524	506	516	508	499	502	386	373	379	485	459	470
14	536	511	520	510	507	508	394	376	386	481	467	471
15	527	514	521	---	---	e510	400	388	395	472	463	467
16	532	517	526	---	---	e510	415	398	407	471	463	468
17	537	443	498	510	502	507	415	409	412	472	464	469
18	527	334	477	515	504	510	409	352	374	473	466	470
19	468	311	418	518	512	514	386	368	377	491	463	474
20	482	464	473	514	506	511	406	386	397	480	465	471
21	492	477	485	514	505	509	412	404	408	483	467	476
22	501	492	498	534	514	518	416	404	410	486	475	480
23	516	498	505	543	458	491	421	410	415	484	474	479
24	522	510	515	480	460	469	427	415	420	485	475	480
25	527	518	523	496	480	489	432	418	423	494	478	487
26	531	519	526	504	494	498	442	424	432	493	479	485
27	555	515	526	518	502	507	440	427	434	503	313	417
28	531	513	522	525	518	520	461	433	444	432	403	420
29	547	531	537	529	522	525	458	431	440	466	431	440
30	547	180	375	540	528	531	444	424	433	459	433	441
31	426	318	362	---	---	---	440	426	433	458	447	451
MONTH	581	180	504	---	---	488	---	---	448	---	---	452

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	476	458	465	442	356	371	402	286	367	411	264	318
2	479	469	473	491	373	405	373	341	357	381	354	367
3	483	472	478	422	379	389	424	373	400	385	200	335
4	487	469	480	389	379	382	429	412	421	364	331	338
5	525	478	497	402	388	393	453	395	435	373	335	352
6	552	525	536	428	399	412	459	448	453	367	353	359
7	553	539	545	442	424	434	459	445	452	369	363	366
8	548	540	545	457	428	439	479	437	458	380	367	373
9	566	546	552	442	429	437	479	442	464	400	378	387
10	566	554	561	490	312	419	478	402	446	407	391	397
11	567	545	558	437	411	425	473	221	408	422	382	400
12	562	546	555	448	436	443	405	288	358	415	389	405
13	564	548	555	464	448	457	403	332	389	421	387	407
14	564	556	561	469	460	463	414	392	403	433	407	420
15	562	553	558	468	446	454	441	413	430	437	384	416
16	574	561	565	457	450	454	440	223	375	432	390	414
17	577	558	567	465	454	459	369	349	360	438	400	423
18	570	552	563	469	462	464	384	365	376	438	206	420
19	570	549	560	478	465	471	397	381	390	385	206	325
20	569	551	561	485	472	476	396	382	389	379	217	336
21	575	558	566	498	298	457	407	391	396	393	370	379
22	---	---	e520	436	302	411	413	390	401	405	393	400
23	---	---	e480	447	423	440	418	389	404	408	390	398
24	437	396	421	454	442	447	417	394	404	430	392	408
25	445	330	427	463	433	456	415	387	404	---	---	e400
26	371	185	342	463	234	351	418	390	406	---	---	e400
27	374	361	369	431	371	401	429	400	413	---	---	e400
28	374	363	369	444	164	383	439	411	427	---	---	e400
29	376	363	367	373	256	328	439	416	426	---	---	e410
30	---	---	---	369	355	364	442	388	426	---	---	e410
31	---	---	---	388	349	372	---	---	---	433	418	426
MONTH	---	---	503	498	164	421	479	221	408	---	---	387

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	e430	343	323	333	473	452	462	546	526	539
2	---	---	e440	356	329	342	473	449	461	552	531	543
3	511	346	459	---	---	e350	570	455	480	552	532	544
4	346	104	165	---	---	e360	508	432	466	547	525	539
5	---	---	e170	---	---	e370	486	468	476	552	534	539
6	---	---	e170	395	373	380	499	471	487	562	543	551
7	235	102	180	398	379	390	491	463	480	564	547	554
8	236	114	204	438	397	413	492	461	475	565	546	558
9	---	---	e210	419	396	409	524	474	497	565	544	555
10	---	---	e220	428	411	417	499	470	487	565	539	553
11	---	---	e230	434	404	423	500	469	486	567	541	557
12	---	---	e250	434	406	423	506	477	493	573	558	566
13	---	---	e260	444	411	431	513	466	495	572	554	562
14	---	---	e270	440	422	432	504	467	490	---	---	e560
15	---	---	e280	472	426	440	503	477	491	---	---	e560
16	316	254	295	440	425	433	497	480	491	---	---	e560
17	332	275	307	441	414	431	503	482	494	---	---	e570
18	317	289	306	465	435	447	505	482	495	---	---	e570
19	330	293	315	473	427	452	503	486	496	---	---	e570
20	352	330	342	452	428	441	509	490	501	---	---	e570
21	359	346	354	446	427	439	526	492	505	---	---	e570
22	369	340	358	455	432	445	529	490	511	589	552	575
23	371	346	360	461	440	451	525	509	517	592	569	580
24	359	337	349	467	436	453	536	509	524	618	586	606
25	364	347	355	462	443	453	543	515	528	608	594	600
26	371	363	366	454	435	447	541	503	526	599	593	596
27	380	267	352	474	449	458	534	509	524	598	587	594
28	363	285	336	479	440	463	532	515	525	601	589	597
29	332	311	325	479	444	463	537	516	527	600	581	590
30	335	321	329	472	450	462	538	522	530	585	573	579
31	---	---	---	476	457	466	548	528	536	---	---	---
MONTH	---	---	300	---	---	423	570	432	499	---	---	567

e Estimated

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.8	7.8	7.5	7.9	7.7	8.3	8.0	8.1	7.9	7.9	7.7
2	8.1	7.8	7.8	7.6	7.8	7.7	8.3	8.0	8.1	7.8	7.9	7.7
3	8.2	7.8	7.8	7.7	7.8	7.6	8.3	8.0	8.1	7.8	7.9	7.7
4	8.2	7.8	7.8	7.7	8.1	7.6	8.4	8.1	8.2	7.8	8.0	7.8
5	8.2	7.8	7.8	7.7	8.2	7.9	8.7	8.2	8.0	7.7	8.0	7.8
6	8.3	7.7	7.8	7.6	8.3	8.0	8.5	8.1	8.0	7.8	8.1	7.7
7	8.2	7.7	7.9	7.6	8.3	7.9	8.7	7.7	8.1	7.8	8.0	7.7
8	8.2	7.7	7.9	7.5	8.2	7.9	8.5	7.5	8.1	7.8	8.2	7.8
9	7.8	7.4	7.9	7.5	---	---	8.0	7.8	8.1	7.7	8.3	7.7
10	7.5	7.4	8.2	7.4	8.0	7.6	8.2	7.8	7.9	7.7	8.3	7.5
11	7.8	7.4	8.1	7.7	7.9	7.6	---	---	8.0	7.7	8.3	8.0
12	8.1	7.7	7.9	7.5	8.5	7.2	8.2	7.9	8.1	7.9	8.2	7.9
13	8.1	7.7	8.0	7.6	8.1	8.0	8.1	7.9	8.2	7.9	8.1	7.9
14	8.2	7.7	7.9	7.6	8.2	8.0	8.2	8.0	8.1	7.9	8.0	7.8
15	8.1	7.7	---	---	8.3	8.1	8.2	8.1	8.1	7.9	8.2	7.9
16	8.3	7.7	---	---	8.3	8.2	8.2	8.0	8.0	7.8	8.1	8.0
17	8.0	7.7	8.1	7.7	8.4	8.2	8.2	8.0	8.1	7.8	8.3	8.0
18	7.9	7.6	8.1	7.7	8.4	8.0	8.1	8.0	8.2	7.8	8.3	8.1
19	7.9	7.7	8.1	7.8	8.2	8.0	8.2	8.0	8.2	7.8	8.2	8.1
20	8.0	7.7	8.0	7.7	8.3	8.1	8.2	8.0	8.2	7.9	8.3	8.0
21	8.0	7.7	8.0	7.7	8.5	8.3	8.3	8.1	8.2	7.8	8.2	7.8
22	8.0	7.7	7.9	7.7	8.5	8.3	8.2	8.0	8.4	7.2	8.4	8.0
23	8.0	7.7	7.8	7.4	8.4	8.3	8.1	7.9	8.1	7.1	8.4	8.1
24	8.0	7.7	7.9	7.7	8.5	8.2	8.2	8.0	8.0	7.9	8.4	8.1
25	8.0	7.8	8.0	7.8	8.4	8.2	8.3	8.1	8.0	7.0	8.3	8.1
26	8.0	7.7	8.0	7.9	8.4	8.1	8.2	8.0	8.2	7.0	8.7	7.7
27	8.1	7.8	8.0	7.8	8.4	8.2	8.3	8.0	8.0	7.8	8.6	8.2
28	8.1	7.8	7.8	7.7	8.5	8.2	8.3	8.1	7.9	7.8	8.4	7.8
29	8.2	7.8	7.8	7.7	8.4	8.1	8.3	8.2	7.9	7.8	8.2	7.5
30	8.1	7.7	7.8	7.7	8.5	8.0	8.2	8.1	---	---	8.0	7.9
31	7.8	7.5	---	---	8.3	8.1	8.2	8.1	---	---	8.0	7.8
MONTH	8.3	7.4	---	---	---	---	---	---	8.4	7.0	8.7	7.5

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

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.2	17.8	21.4	19.3	16.9	17.9	15.4	11.8	13.4	13.6	9.1	11.3
2	27.6	19.0	22.5	17.5	14.4	15.7	18.0	13.3	15.3	15.9	12.6	14.1
3	29.3	21.2	24.4	16.1	12.6	14.3	20.4	15.0	17.1	14.5	10.3	12.8
4	24.9	19.8	21.8	17.0	12.8	14.9	18.2	13.8	16.9	10.6	7.0	9.0
5	26.9	19.2	22.0	19.5	15.0	17.0	14.5	10.2	12.7	10.4	6.0	7.9
6	26.4	20.3	22.6	21.1	17.0	18.7	13.8	9.3	10.8	11.8	7.6	9.6
7	26.0	17.1	20.5	22.1	18.0	19.8	12.2	8.6	10.3	11.3	10.1	10.8
8	23.8	21.0	22.0	22.9	19.0	20.3	14.6	10.6	12.5	10.7	9.9	10.2
9	23.3	20.6	21.8	22.3	17.6	19.4	---	---	---	12.1	9.3	10.6
10	26.8	20.4	22.9	23.5	17.2	19.7	14.5	9.2	11.2	11.8	8.8	10.4
11	26.6	21.5	23.7	21.4	18.5	20.0	11.2	9.7	10.4	---	---	---
12	27.3	22.4	24.5	22.9	18.5	20.5	11.2	10.1	10.8	15.6	11.5	13.3
13	27.7	22.2	24.5	23.0	18.2	20.3	11.7	9.7	10.6	14.0	10.7	12.2
14	27.4	21.7	24.3	22.9	17.8	20.1	11.2	8.8	9.9	12.6	9.7	10.8
15	27.2	22.2	24.3	---	---	---	10.0	7.1	8.7	13.5	10.3	11.6
16	26.9	22.3	24.1	---	---	---	10.8	7.6	8.9	15.4	12.2	13.6
17	22.9	17.0	19.3	21.6	17.3	19.1	11.7	8.4	9.8	16.7	13.3	14.7
18	17.0	14.9	16.0	21.5	17.1	18.9	11.3	9.7	10.6	15.9	13.2	14.5
19	19.1	15.7	17.3	20.6	16.9	18.5	11.6	8.6	10.1	16.0	12.1	13.7
20	19.6	16.5	18.1	19.6	15.3	17.0	10.7	7.6	8.9	13.6	9.7	11.9
21	21.2	16.6	18.6	19.9	14.9	17.1	9.1	7.0	7.7	12.9	9.0	10.5
22	22.2	17.0	19.2	19.6	17.2	18.3	9.9	6.7	8.0	13.9	10.7	12.4
23	21.2	17.3	18.9	18.7	15.8	17.4	10.4	7.2	8.5	14.7	11.7	12.9
24	20.8	16.4	18.1	15.8	13.3	14.3	11.2	7.8	9.1	12.6	9.2	10.9
25	21.2	15.8	18.0	15.2	12.2	13.4	10.6	7.9	9.0	12.2	8.9	9.9
26	22.3	16.1	18.7	15.3	11.5	13.1	10.7	8.6	9.6	9.2	6.8	8.3
27	21.9	16.9	19.1	16.2	11.7	13.6	12.7	8.6	10.1	7.8	3.0	5.6
28	22.5	18.4	19.9	16.9	12.6	14.4	11.7	8.1	9.5	7.8	5.9	6.9
29	22.5	18.8	20.3	16.4	13.3	14.4	13.1	8.5	10.4	6.9	5.0	5.9
30	19.8	17.4	18.2	15.9	12.7	13.8	12.9	9.9	11.0	8.0	4.0	6.2
31	17.8	17.1	17.5	---	---	---	13.3	9.2	10.7	7.4	4.7	6.4
MONTH	29.3	14.9	20.8	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.9	6.7	7.5	19.0	15.2	17.0	18.3	17.1	17.5	22.3	18.3	20.9
2	9.5	6.5	7.9	18.2	16.1	17.0	17.6	16.7	17.1	24.5	19.8	21.9
3	11.8	7.3	9.3	17.1	14.0	15.0	17.7	15.2	16.5	23.1	18.0	21.0
4	10.8	7.7	8.9	17.8	12.9	15.3	19.7	13.1	16.2	23.3	20.6	21.7
5	9.6	7.2	8.3	17.4	13.9	15.8	21.1	14.7	17.8	22.1	20.5	21.3
6	11.4	6.8	9.0	18.3	15.1	16.6	23.2	16.4	19.5	25.2	20.7	22.8
7	14.2	9.4	11.2	18.9	16.3	17.4	24.9	18.8	21.0	28.4	22.0	25.0
8	15.1	10.1	12.3	19.5	16.0	17.8	21.3	15.7	18.2	29.3	23.0	25.8
9	15.9	10.9	13.0	20.4	14.9	17.7	21.7	14.4	17.4	25.9	22.8	24.4
10	18.2	12.9	15.2	18.5	14.7	16.7	18.7	16.4	17.5	27.9	22.0	24.5
11	16.9	12.4	14.9	17.4	13.8	15.5	21.7	17.6	18.8	31.0	24.3	27.0
12	15.3	11.1	12.9	18.0	12.8	15.3	18.2	17.0	17.7	32.1	25.2	27.8
13	16.9	13.1	14.4	18.9	13.8	16.3	20.1	16.7	18.0	28.3	22.8	25.5
14	16.4	12.2	13.9	16.9	15.5	16.2	19.0	16.8	18.0	28.9	20.5	23.9
15	17.6	12.0	14.7	19.4	15.0	17.2	21.3	17.2	19.1	29.5	21.5	24.8
16	17.1	15.2	15.9	18.4	14.8	16.8	20.8	17.0	19.1	29.8	23.8	26.1
17	18.4	15.0	16.5	14.8	11.9	12.8	22.0	17.6	19.5	29.6	23.5	25.9
18	20.0	14.2	17.6	17.5	11.9	14.1	25.5	18.3	21.7	28.3	23.0	25.7
19	17.0	12.8	14.3	17.6	13.1	14.9	25.0	20.7	22.9	24.3	19.2	22.6
20	16.7	11.7	13.8	19.7	13.0	15.7	23.7	19.6	21.7	27.2	20.0	24.4
21	16.6	13.7	14.8	16.3	15.3	15.7	24.3	19.2	21.6	29.1	23.4	26.0
22	17.3	14.5	15.6	16.8	14.9	15.8	25.0	19.4	21.6	29.1	24.3	26.6
23	17.8	12.4	15.2	17.8	15.9	16.6	25.4	20.1	22.3	31.0	24.5	27.4
24	17.3	15.2	16.1	21.6	14.6	18.1	26.0	20.5	22.7	33.4	25.6	28.7
25	18.8	15.9	17.0	22.0	17.5	19.5	28.1	20.5	23.8	---	---	---
26	18.5	15.6	17.2	21.2	16.8	19.3	28.0	21.8	24.4	---	---	---
27	18.7	14.6	16.4	23.8	19.1	21.2	25.0	21.7	23.2	---	---	---
28	18.0	14.4	16.1	24.7	18.5	21.2	26.2	19.9	22.7	---	---	---
29	19.2	15.4	17.0	22.8	19.1	20.8	26.4	21.6	23.3	---	---	---
30	---	---	---	19.2	17.8	18.4	22.7	18.5	22.3	---	---	---
31	---	---	---	19.2	16.5	17.9	---	---	---	31.1	26.9	28.9
MONTH	20.0	6.5	13.7	24.7	11.9	17.0	28.1	13.1	20.1	---	---	---

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	30.1	27.2	28.5	34.7	26.9	30.2	35.5	28.0	30.9
2	---	---	---	31.2	27.0	29.1	35.3	27.0	30.5	36.0	28.0	31.1
3	27.8	25.2	26.4	---	---	---	35.6	27.0	30.7	36.2	28.8	31.7
4	26.3	22.6	23.4	---	---	---	35.2	27.6	29.9	36.0	28.4	31.5
5	26.1	22.9	24.1	---	---	---	34.9	28.1	30.8	32.5	28.9	30.5
6	25.7	23.1	24.2	32.6	27.8	30.0	35.2	26.9	30.5	31.3	26.8	28.7
7	24.0	23.0	23.7	33.9	28.3	30.7	35.0	27.3	30.5	32.5	27.1	29.1
8	24.2	23.2	23.9	35.1	28.6	31.1	36.0	27.0	30.4	31.9	25.5	28.0
9	25.1	23.6	24.2	34.8	28.9	31.3	34.5	27.1	30.1	32.1	25.9	28.3
10	24.2	23.2	23.8	34.7	28.2	30.8	35.4	27.7	30.8	34.2	26.5	29.3
11	25.0	22.9	24.1	34.6	27.7	30.6	36.1	26.1	30.4	33.9	27.1	29.6
12	25.8	23.8	24.9	35.3	27.8	30.9	35.8	27.3	30.6	31.9	27.3	28.7
13	26.3	23.8	25.1	36.4	28.6	31.8	34.5	26.9	29.7	31.4	25.8	27.9
14	25.6	20.3	24.5	36.5	29.0	31.9	34.0	25.7	29.1	---	---	---
15	25.0	19.8	23.3	35.4	29.6	32.2	34.4	27.1	30.0	---	---	---
16	27.1	24.3	25.4	34.7	29.9	31.8	34.7	28.1	30.8	---	---	---
17	27.2	25.3	25.9	34.4	28.0	30.7	35.1	27.9	30.9	---	---	---
18	27.2	25.6	26.2	34.5	27.8	30.7	34.7	28.1	30.7	---	---	---
19	27.3	25.6	26.2	36.3	27.9	31.4	33.9	27.6	30.0	---	---	---
20	27.6	25.7	26.6	35.5	28.9	31.5	33.9	26.4	29.6	---	---	---
21	29.3	25.8	27.1	35.1	28.5	31.2	34.0	26.8	29.7	---	---	---
22	30.3	25.8	27.6	34.8	28.8	30.9	34.1	27.0	29.5	31.8	23.9	26.8
23	29.5	26.4	27.7	33.1	27.9	29.7	33.6	27.1	29.6	31.9	25.3	28.0
24	30.0	26.2	27.8	34.2	26.0	29.4	35.0	27.3	30.3	27.6	21.4	24.6
25	31.2	26.7	28.5	33.2	25.8	28.5	35.3	27.4	30.4	22.3	18.2	20.4
26	29.9	27.1	28.3	33.7	27.2	29.9	35.4	27.3	30.4	24.0	18.3	21.0
27	31.0	26.0	28.4	30.5	27.1	28.8	35.0	27.1	30.2	25.2	19.5	22.2
28	31.2	27.5	29.3	33.7	26.1	29.4	34.6	27.5	30.2	24.5	19.6	22.1
29	30.5	28.2	29.3	33.0	26.8	29.2	34.4	27.2	30.0	25.2	20.2	22.5
30	29.3	27.6	28.4	32.6	26.3	29.1	34.5	27.5	30.3	25.3	19.7	22.3
31	---	---	---	33.6	26.7	29.5	34.5	27.1	30.2	---	---	---
MONTH	---	---	---	---	---	---	36.1	25.7	30.2	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	8.1	9.1	7.5	6.6	7.0	10.0	7.0	8.3	10.7	6.6	8.5
2	10.2	7.2	8.5	7.9	6.8	7.4	8.7	5.6	7.2	9.3	5.8	7.8
3	10.1	5.5	8.0	8.1	7.6	7.8	8.2	5.2	6.3	11.3	6.9	8.9
4	10.6	7.7	8.9	8.3	7.8	8.0	8.1	5.5	6.7	11.1	7.4	9.5
5	10.3	3.3	8.0	8.5	7.7	8.0	9.2	6.7	7.8	12.1	8.2	10.8
6	8.8	1.4	6.7	9.0	7.3	8.2	10.5	7.8	9.1	10.7	8.3	9.6
7	9.0	1.6	4.8	9.0	7.3	8.2	11.4	7.6	9.2	12.3	8.2	9.6
8	---	---	---	9.3	6.7	8.3	10.3	7.0	8.8	12.9	11.0	12.0
9	---	---	---	9.6	6.4	8.1	---	---	---	11.4	10.2	10.8
10	---	---	---	10.2	6.1	8.1	8.3	5.7	7.2	10.6	9.0	9.7
11	---	---	---	8.4	6.3	7.1	8.7	4.9	6.1	---	---	---
12	---	---	---	7.7	5.3	6.5	9.7	6.0	9.1	7.5	6.1	6.6
13	---	---	---	7.9	5.6	6.7	8.6	8.0	8.3	6.4	5.9	6.2
14	---	---	---	7.4	5.5	6.3	8.3	7.9	8.1	7.1	6.3	6.7
15	---	---	---	---	---	---	9.0	8.2	8.6	7.2	6.6	7.0
16	---	---	---	---	---	---	9.1	8.2	8.6	7.1	6.6	6.9
17	---	---	---	10.2	7.3	8.3	8.9	7.7	8.4	7.3	6.7	7.0
18	---	---	---	9.7	6.6	7.9	8.4	7.6	8.1	7.9	6.8	7.3
19	---	---	---	9.7	6.5	7.9	8.1	7.5	7.8	8.2	7.4	7.8
20	---	---	---	9.9	6.8	8.3	9.1	7.6	8.2	8.8	7.6	8.3
21	7.3	4.6	6.0	9.7	7.5	8.4	9.4	8.1	8.9	9.7	8.0	8.9
22	7.4	4.9	6.1	8.6	6.2	7.5	9.7	8.3	9.1	8.8	6.5	8.1
23	7.8	5.0	6.3	7.1	3.9	5.8	10.0	8.5	9.3	8.8	6.0	7.5
24	7.9	5.1	6.4	8.2	6.0	7.4	10.1	8.4	9.5	9.7	8.6	9.2
25	7.9	5.6	6.8	9.0	7.4	8.3	10.5	7.7	9.7	10.5	8.7	9.7
26	8.1	4.7	6.6	10.2	7.8	9.0	10.6	7.8	9.6	10.4	8.8	9.7
27	8.2	5.9	7.1	9.8	7.3	8.5	10.7	7.5	9.5	12.8	9.9	11.3
28	7.7	6.7	7.1	9.3	7.0	8.1	10.3	7.5	9.5	11.6	10.2	11.0
29	7.8	6.6	7.1	9.2	6.8	8.0	10.6	6.3	9.1	12.5	11.4	12.0
30	8.1	6.5	7.0	9.4	7.1	8.1	10.1	6.6	8.7	12.3	11.2	11.8
31	7.1	6.5	6.8	---	---	---	10.4	6.6	8.7	12.4	11.4	11.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08048543 WEST FORK TRINITY RIVER AT BEACH STREET, FORT WORTH, TX--Continued
(National Water-Quality Assessment Program)

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.6	6.7	7.1	9.1	8.0	8.4	10.2	7.9	8.9
2	---	---	---	7.8	6.9	7.3	9.2	8.5	8.7	9.4	7.2	8.3
3	---	---	---	8.3	7.5	8.0	9.7	8.2	8.9	10.3	7.3	8.4
4	---	---	---	8.5	8.0	8.3	9.8	9.0	9.4	9.9	8.2	8.8
5	---	---	---	9.0	8.1	8.5	10.1	8.4	9.1	8.9	7.7	8.1
6	---	---	---	9.0	8.1	8.6	10.1	7.9	8.9	9.3	7.2	8.2
7	---	---	---	8.8	7.1	8.0	10.0	7.4	8.6	9.5	7.0	8.2
8	---	---	---	8.7	6.5	7.6	11.2	8.0	9.4	9.9	6.7	8.1
9	---	---	---	9.2	6.6	7.8	12.3	8.1	10.0	9.4	6.4	7.3
10	---	---	---	8.5	6.1	7.4	11.3	8.1	9.3	10.9	6.5	8.6
11	---	---	---	9.3	7.4	8.3	11.2	8.1	9.2	12.3	6.5	9.1
12	7.9	6.7	7.4	8.1	6.4	7.3	10.2	8.3	9.0	12.1	6.3	8.7
13	6.8	6.0	6.5	8.1	6.8	7.4	9.2	8.1	8.5	12.8	5.9	9.0
14	6.6	6.1	6.3	7.6	6.6	7.1	9.7	7.4	8.5	13.9	6.1	9.5
15	6.6	5.8	6.2	9.4	6.9	7.8	9.9	7.9	8.7	13.9	6.6	9.8
16	6.1	5.3	5.7	8.7	6.9	8.0	9.8	7.6	8.9	13.0	6.1	9.2
17	6.2	5.3	5.6	9.5	7.9	8.7	8.1	7.1	7.6	13.4	4.8	8.8
18	6.2	5.3	5.7	10.0	8.4	9.1	7.7	6.5	7.2	13.2	3.3	8.6
19	6.3	5.4	5.8	10.0	8.6	9.2	7.6	5.9	6.7	10.0	6.6	8.0
20	6.5	5.5	6.0	10.4	8.3	9.4	8.2	6.1	6.9	10.3	6.9	9.0
21	6.4	5.2	5.9	9.4	7.7	8.8	8.5	5.9	7.2	10.6	5.3	7.6
22	6.3	5.1	5.8	11.3	8.6	10.1	10.2	6.6	8.2	8.6	5.5	7.2
23	5.9	4.6	5.4	11.2	9.6	10.2	10.9	6.9	8.5	9.0	5.2	7.1
24	5.8	5.4	5.6	11.5	9.5	10.4	10.6	6.6	8.4	10.7	5.1	7.7
25	5.8	4.9	5.7	11.2	8.8	9.7	11.8	6.7	9.1	---	---	---
26	6.0	4.3	5.7	10.9	8.5	9.9	12.1	6.2	8.8	---	---	---
27	6.3	5.8	6.1	11.5	8.5	9.8	10.1	5.9	7.2	---	---	---
28	6.8	6.2	6.4	10.6	7.8	9.2	10.2	5.9	7.7	---	---	---
29	7.1	6.6	6.7	10.2	8.4	8.9	10.8	6.0	7.7	---	---	---
30	---	---	---	9.1	8.4	8.7	9.5	6.0	7.1	---	---	---
31	---	---	---	9.4	8.2	8.7	---	---	---	9.6	5.0	7.2
MONTH	---	---	---	11.5	6.1	8.6	12.3	5.9	8.4	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.6	5.0	6.7	7.7	2.2	5.4	8.5	4.2	7.2
2	---	---	---	8.3	4.2	6.4	7.6	1.7	5.0	8.2	4.5	6.1
3	4.5	2.1	3.2	8.9	4.8	6.8	7.7	1.4	4.9	7.8	3.9	5.7
4	7.8	3.7	6.8	---	---	---	7.3	.4	3.5	7.5	4.2	5.7
5	8.0	5.7	6.7	---	---	---	7.4	.7	4.1	5.9	4.1	4.7
6	8.0	7.5	7.7	10.0	7.1	8.6	8.2	1.9	5.2	5.9	3.4	4.7
7	8.2	7.6	7.8	9.7	6.8	8.5	9.1	3.2	6.2	6.6	2.0	5.0
8	8.0	7.2	7.7	9.0	4.9	7.7	9.6	4.8	7.6	7.6	4.3	5.8
9	7.8	7.1	7.4	9.1	3.9	7.1	9.5	5.7	7.6	7.7	4.4	5.7
10	8.1	7.2	7.5	8.6	3.2	6.6	9.4	5.7	7.6	7.6	4.2	5.8
11	7.9	7.3	7.5	8.7	6.5	7.7	9.3	5.2	7.0	7.2	4.1	5.5
12	7.6	6.9	7.3	8.6	7.1	7.8	9.6	3.6	7.1	7.6	2.7	5.1
13	7.6	6.8	7.2	8.0	6.2	7.4	10.0	2.6	7.1	7.3	1.9	4.3
14	8.6	6.6	7.2	7.8	6.8	7.3	9.9	2.8	7.4	---	---	---
15	8.7	5.0	7.0	7.1	5.5	6.5	9.6	4.7	7.4	---	---	---
16	8.1	4.9	6.4	---	---	---	9.6	2.8	7.3	---	---	---
17	8.8	6.8	7.7	---	---	---	9.7	3.1	7.6	---	---	---
18	8.0	6.8	7.3	---	---	---	7.8	3.2	6.2	---	---	---
19	9.5	6.7	7.6	---	---	---	7.5	4.2	5.8	---	---	---
20	8.9	6.6	7.7	8.8	5.6	7.2	7.4	3.7	5.5	---	---	---
21	9.5	6.3	7.6	7.9	4.4	6.3	7.8	3.8	5.6	---	---	---
22	10.3	6.3	8.0	7.2	3.0	5.4	8.2	3.0	5.7	8.3	3.5	5.6
23	9.7	6.1	7.8	6.6	1.6	4.2	7.7	3.7	5.6	8.1	4.1	6.1
24	9.4	5.9	7.6	7.1	1.6	4.6	8.6	3.8	6.1	7.0	3.2	5.6
25	8.4	5.7	7.1	7.4	2.0	5.0	8.9	3.9	6.9	9.1	6.5	7.6
26	8.1	5.4	6.7	8.0	4.7	6.5	9.2	2.1	6.4	9.4	6.1	7.6
27	9.0	4.2	6.3	7.9	4.6	6.2	9.7	2.9	7.0	11.1	4.8	8.2
28	9.0	6.4	7.5	8.2	4.0	6.4	9.9	3.7	7.5	10.5	7.9	9.3
29	11.3	5.5	7.8	8.2	1.9	5.8	9.9	4.3	7.2	10.2	7.8	9.1
30	9.2	5.2	7.0	7.5	4.1	6.0	9.9	1.9	6.7	10.0	7.9	9.0
31	---	---	---	7.7	4.5	6.2	10.2	1.7	6.1	---	---	---
MONTH	---	---	---	---	---	---	10.2	.4	6.3	---	---	---

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.

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

REMARKS.--No estimated daily discharges. Records good except those less than 10 ft^3/s, which are fair. No flow at times. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0930	c16,000	21.44	Jun 15	0530	1,460	7.90
Jun 10	2400	1,020	7.04				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.98	.11	.41	.25	.60	2.9	31	.17	3.2	.00	.00
2	.00	.44	.09	.28	.23	.60	4.7	7.5	.06	2.7	.00	.00
3	.00	.25	.10	.20	.21	.68	4.1	16	19	2.2	.00	.00
4	.00	.15	.12	.19	.20	1.2	2.8	7.6	7330	1.9	.00	.00
5	.00	.09	.11	.19	.24	.95	2.4	5.7	167	1.6	.00	.00
6	.00	.06	.12	.17	.28	1.0	2.0	4.2	51	1.4	.00	.00
7	.00	.05	.15	.54	.31	1.2	1.8	3.2	33	1.3	.00	.00
8	.00	.13	.16	29	.34	1.3	1.8	2.4	24	1.3	.00	.00
9	.00	.16	2.8	1.8	.35	1.9	1.8	2.0	21	1.2	.00	.00
10	.00	.15	.85	.56	.32	14	1.6	1.9	239	1.1	.00	.00
11	.00	.13	.36	.32	.32	8.3	2.2	1.4	238	1.0	.00	.00
12	.00	.12	75	.24	.32	1.8	37	1.1	36	1.0	.00	.00
13	.00	.11	3.5	.21	.32	1.0	5.6	.79	20	.94	.00	.00
14	.00	.15	.78	.20	.32	1.1	2.0	.47	15	.89	.00	.00
15	.00	.27	.41	.19	.39	1.7	1.3	.28	527	.84	.00	.00
16	.00	.41	.29	.18	.41	2.2	1.7	.18	44	.75	.00	.00
17	.00	.26	.30	.20	.70	2.0	1.8	.12	20	.67	.00	.00
18	.00	.18	.31	.24	.67	2.4	1.8	.07	15	.63	.00	.00
19	7.1	.13	.28	.25	.79	2.5	1.5	40	13	.55	.00	.00
20	.80	.12	.32	.23	.84	2.5	1.4	62	10	.44	.00	.00
21	.32	.12	.22	.22	.89	3.1	1.3	7.9	8.1	.32	.00	.00
22	.15	.15	.18	.25	1.4	8.5	1.6	2.9	6.7	.23	.00	.00
23	.08	4.3	.17	.28	73	9.6	1.4	1.7	5.0	.18	.00	.00
24	.04	.52	.16	.27	2.2	12	1.2	1.3	4.4	.14	.00	.00
25	.02	.22	.18	.30	1.0	27	1.5	.73	3.7	.12	.00	.00
26	.00	.16	.19	.38	4.9	131	1.7	.43	3.3	.10	.00	.00
27	.00	.11	.15	2.4	1.0	13	1.8	.37	3.0	.08	.00	.00
28	.00	.09	.17	4.2	.57	5.3	2.0	.38	13	.07	.00	.00
29	.00	.07	.17	.71	.47	3.0	2.1	.52	8.9	.05	.00	.00
30	24	.08	.15	.41	---	2.2	2.3	.62	4.1	.04	.00	.00
31	4.6	---	.20	.31	---	2.1	---	.33	---	.01	.00	---
TOTAL	37.11	10.16	88.10	45.33	93.24	265.73	99.1	205.09	8882.43	26.95	0.00	0.00
MEAN	1.20	.34	2.84	1.46	3.22	8.57	3.30	6.62	296	.87	.000	.000
MAX	24	4.3	75	29	73	131	37	62	7330	3.2	.00	.00
MIN	.00	.05	.09	.17	.20	.60	1.2	.07	.06	.01	.00	.00
AC-FT	74	20	175	90	185	527	197	407	17620	53	.00	.00

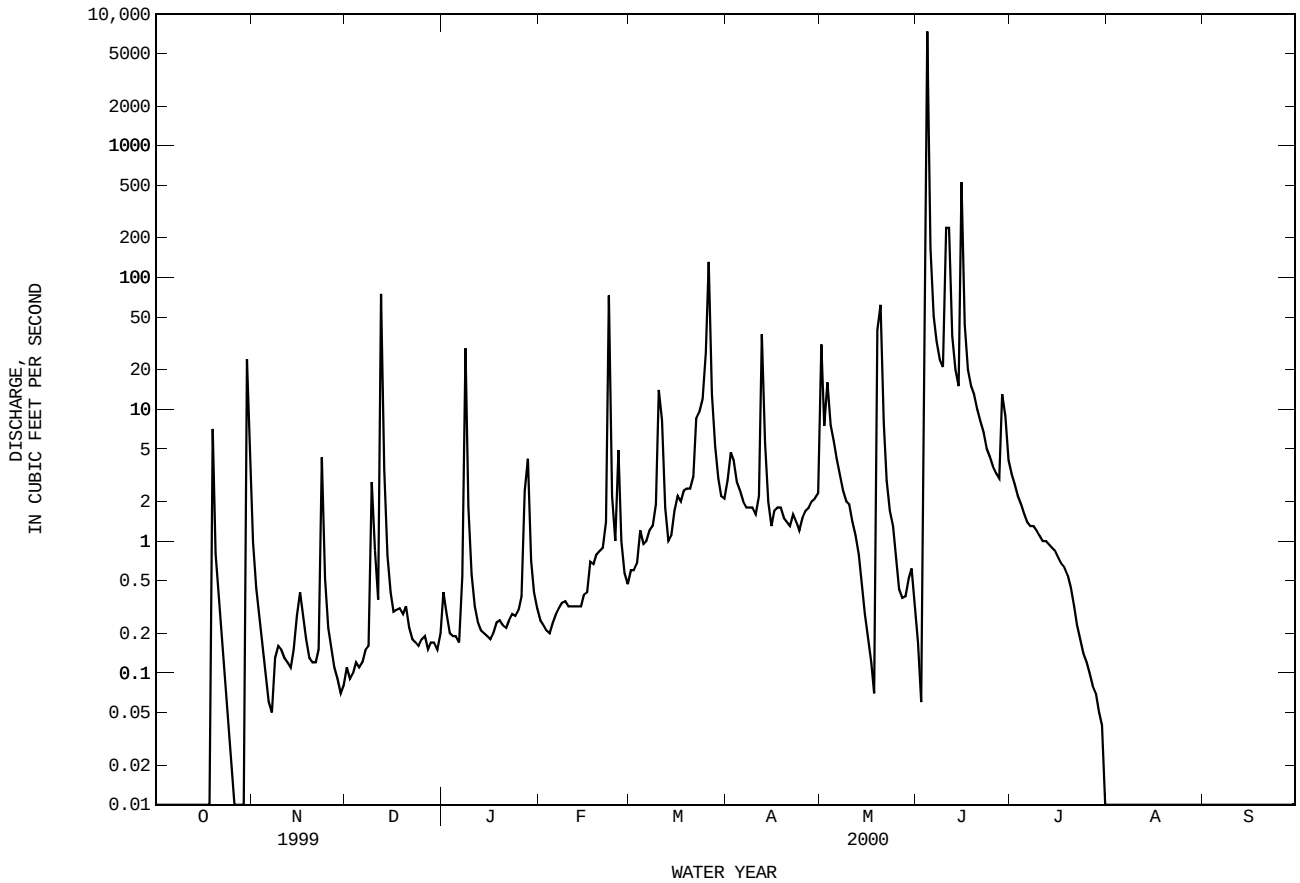
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)

MEAN	33.5	16.9	46.3	23.7	58.0	52.8	54.7	70.1	52.0	4.91	3.64	3.77
MAX	240	52.1	367	117	165	161	233	339	296	14.3	21.7	14.3
(WY)	1992	1995	1992	1992	1997	1998	1990	1990	2000	1993	1991	1995
MIN	.68	.34	.72	.83	1.32	1.13	2.70	.59	.19	.000	.000	.000
(WY)	1990	2000	1991	1996	1996	1996	1996	1996	1998	1998	1998	2000

08048970 VILLAGE CREEK AT EVERMAN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	2130.26		9753.24			
ANNUAL MEAN	5.84		26.6		34.9	
HIGHEST ANNUAL MEAN					92.6	1992
LOWEST ANNUAL MEAN					1.37	1996
HIGHEST DAILY MEAN	241	Jul 10	7330	Jun 4	7330	Jun 4 2000
LOWEST DAILY MEAN	.00	Jul 27	.00	Oct 1	.00	Aug 18 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 27	.00	Oct 1	.00	Aug 25 1990
INSTANTANEOUS PEAK FLOW			16000	Jun 4	c16000	Jun 4 2000
INSTANTANEOUS PEAK STAGE			21.44	Jun 4	21.96	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	4230		19350		25280	
10 PERCENT EXCEEDS	6.5		8.4		43	
50 PERCENT EXCEEDS	1.8		.32		3.2	
90 PERCENT EXCEEDS	.00		.00		.00	

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



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 Sep 1990.
pH: Oct 1989 to Sep 1990.
WATER TEMPERATURE: Oct 1989 to Sep 1990.
DISSOLVED OXYGEN: Oct 1989 to Sep 1990.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,000 microsiemens, on several days during Jan and May 1990; minimum, 129 microsiemens, May 3, 1990.
pH: Maximum, 9.1 units, Jan 13, 1990; minimum, 7.0 units, Nov 22, 1989.
WATER TEMPERATURE: Maximum, 34.5°C, Jul 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
JAN												
11...	1110	1.9	523	8.0	8.5	--	--	2.1	140	15	48	5.8
MAR												
21...	1050	.05	675	7.3	16.0	9.0	93	1.6	150	16	49	7.7
JUL												
13...	1131	1.0	852	8.0	29.8	7.5	102	6.1	170	26	52	11
27...	1000	.08	843	7.8	27.9	4.9	63	2.6	180	43	52	11

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 FIX END FIELD CAC03 (MG/L) (39036)	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, 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)
JAN												
11...	50	2	5.2	130	51	52	.35	3.1	292	--	--	--
MAR												
21...	77	3	5.0	140	65	81	.37	.62	368	<.010	<.050	<.020
JUL												
13...	97	3	5.6	150	110	100	.38	8.8	474	<.010	<.050	<.020
27...	98	3	5.8	130	120	110	.36	8.6	483	<.010	.105	.051

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	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)
JAN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	.54	E.030	.010	.03	--	--	--	--	--	--	--
JUL												
13...	--	.34	<.050	<.010	--	--	--	--	--	--	--	--
27...	.53	.58	E.044	.031	.10	E2	64	<1.6	<8.0	<14	<13	<10

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	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)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JAN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<10	<100	13	107	<.2	<34	<40	<2	<7.0	529	<10	<20

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08049200 LAKE ARLINGTON AT ARLINGTON, TX

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

DRAINAGE AREA.--143 mi^2.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Mar 1957 to current year.

REVISED RECORDS.--WSP 1922: Drainage area.

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

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

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

COOPERATION.--Capacity Table No. 2 provided by the city of Arlington. Capacity table Table No. 3, was provided by the Texas Water Development Board and put into effect Oct 1995 and is based on 1994 survey.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 46,240 acre-ft, Jun 4, elevation, 554.37 ft; minimum contents, 21,060 acre-ft, Sep 30, elevation, 539.97 ft.

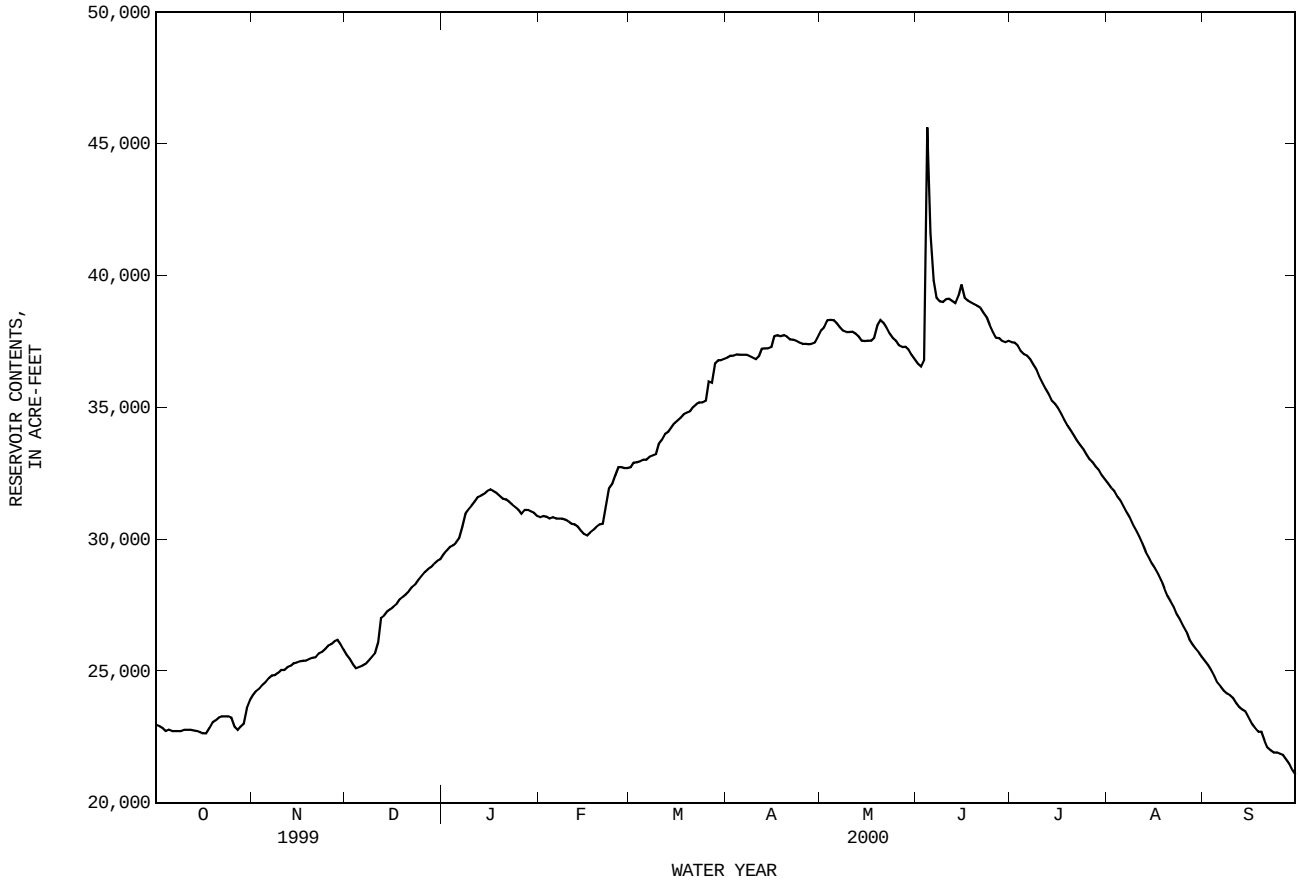
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22950	24070	25600	29400	30830	32730	36880	37930	36650	37470	32100	25380
2	22900	24230	25450	29560	30880	32900	36960	38040	36540	37450	31930	25220
3	22820	24330	25240	29700	30850	32920	36960	38310	36770	37340	31820	25020
4	22720	24470	25100	29760	30780	32950	37010	38320	45610	37130	31600	24810
5	22760	24590	25140	29860	30830	33010	36990	38310	41590	37010	31440	24550
6	22720	24720	25190	30030	30780	33010	36990	38190	39810	36960	31220	24400
7	22720	24830	25260	30460	30780	33120	36990	38040	39150	36820	31010	24250
8	22720	24840	25390	30960	30780	33170	36940	37910	39020	36620	30800	24130
9	22720	24930	25520	31120	30740	33220	36880	37850	39000	36420	30530	24080
10	22760	25030	25670	31260	30670	33610	36820	37850	39110	36160	30310	23970
11	22760	25030	26080	31420	30580	33770	36940	37870	39120	35910	30100	23770
12	22760	25140	27000	31590	30560	33980	37220	37790	39030	35680	29830	23610
13	22740	25190	27100	31640	30470	34070	37240	37680	38950	35480	29520	23530
14	22720	25290	27260	31710	30310	34230	37240	37530	39240	35250	29300	23460
15	22670	25310	27340	31820	30200	34400	37280	37510	39650	35130	29080	23230
16	22630	25360	27440	31880	30130	34510	37700	37530	39160	34950	28890	22990
17	22630	25390	27540	31820	30260	34620	37740	37530	39050	34730	28680	22840
18	22820	25390	27720	31750	30350	34730	37700	37640	38970	34520	28420	22690
19	23040	25450	27820	31640	30460	34800	37740	38100	38910	34300	28130	22690
20	23120	25500	27910	31530	30560	34850	37680	38310	38850	34120	27840	22350
21	23230	25520	28030	31500	30580	35020	37580	38190	38780	33920	27630	22100
22	23280	25650	28190	31420	31310	35110	37570	38020	38590	33740	27410	21990
23	23280	25720	28290	31310	31910	35190	37510	37790	38420	33570	27150	21900
24	23280	25820	28450	31220	32080	35190	37450	37620	38140	33410	26950	21900
25	23220	25960	28610	31100	32420	35250	37410	37510	37870	33210	26710	21850
26	22890	26010	28750	30960	32730	35970	37410	37340	37640	33040	26490	21810
27	22760	26120	28860	31100	32730	35930	37390	37280	37620	32920	26200	21640
28	22890	26170	28930	31100	32700	36670	37410	37300	37510	32750	26000	21460
29	22990	26010	29070	31050	32700	36790	37450	37190	37470	32610	25840	21250
30	23590	25810	29170	30990	---	36790	37680	36990	37510	32420	25690	21060
31	23890	---	29230	30880	---	36840	---	36820	---	32260	25530	---
MAX	23890	26170	29230	31880	32730	36840	37740	38320	45610	37470	32100	25380
MIN	22630	24070	25100	29400	30130	32730	36820	36820	36540	32260	25530	21060
(+)	541.70	542.83	544.81	545.74	546.74	548.97	549.41	548.96	549.32	546.50	542.67	539.97
(@)	+940	+1920	+3420	+1650	+1820	+4140	+840	-860	+690	-5250	-6730	-4470

CAL YR 1999 MAX 39180 MIN 22630 (@) -5130
WTR YR 2000 MAX 45610 MIN 21060 (@) -1890

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

08049200 LAKE ARLINGTON AT ARLINGTON, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Jan 1964 to current year.
BIOCHEMICAL DATA: Jan 1964 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

324304097113601 - Lk Arlington 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)
FEB											
09...	1242	30700	1.00	267	8.5	12.5	.73	11.4	109	100	7
09...	1246	--	10.0	266	8.4	12.0	--	11.4	108	--	--
09...	1250	--	20.0	267	8.4	12.0	--	11.4	108	--	--
09...	1255	--	35.0	268	8.2	12.0	--	10.4	98	100	6
APR											
20...	1332	37700	1.00	285	8.5	22.0	.85	9.2	108	110	6
20...	1338	--	10.0	285	8.4	22.0	--	9.5	111	--	--
20...	1344	--	20.0	285	8.4	22.0	--	9.6	113	--	--
20...	1350	--	30.0	285	8.3	21.5	--	9.0	104	--	--
20...	1355	--	43.0	289	7.9	20.5	--	7.9	90	110	--
JUL											
10...	1300	36300	1.00	246	8.9	32.5	.91	8.4	118	86	--
10...	1308	--	10.0	245	8.9	32.0	--	8.2	114	--	--
10...	1316	--	20.0	256	8.1	30.5	--	5.4	73	--	--
10...	1324	--	30.0	261	7.4	27.0	--	.2	3	--	--
10...	1332	--	41.0	244	7.3	25.5	--	.3	4	88	--

324304097113601 - Lk Arlington 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)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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											
09...	34.3	3.89	14.1	.6	22	4.3	95	25.1	13.1	.2	3.0
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	33.9	4.00	14.3	.6	23	4.3	95	25.3	13.1	.3	3.0
APR											
20...	37.2	3.97	15.1	.6	22	4.1	100	25.5	13.3	.3	4.1
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	37.6	3.97	14.9	.6	22	4.1	110	25.1	12.9	.3	4.9
JUL											
10...	28.8	3.47	12.0	.6	22	4.4	88	20.0	10.7	.3	2.3
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	30.5	2.91	8.9	.4	17	4.3	110	7.4	7.7	.3	7.6

324304097113601 - Lk Arlington 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)	PHOS-PHORUS ORTHO, 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											
09...	155	<.010	<.050	<.020	--	.33	<.050	<.010	--	<10	E1
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	155	<.010	<.050	.020	.29	.31	<.050	<.010	--	<10	6
APR											
20...	165	<.010	.053	<.020	--	.40	<.050	<.010	--	<10	E2
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	171	<.010	.129	.067	.39	.46	<.050	<.010	--	<10	20
JUL											
10...	135	<.010	<.050	<.020	--	.32	<.050	<.010	--	<10	5
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	<.010	<.050	<.020	--	.31	<.050	<.010	--	<10	7
10...	--	<.010	<.050	.471	.34	.81	.095	.088	.270	240	857
10...	138	<.010	<.050	1.31	.41	1.7	.357	.338	1.04	670	1300

08049200 LAKE ARLINGTON AT ARLINGTON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

324320097121101 - Lk Arlington Site AL

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							
09...	1300	1.00	267	8.6	13.5	11.6	113
09...	1302	10.0	267	8.6	13.0	11.4	110
09...	1305	20.0	267	8.5	12.5	11.0	105
09...	1307	26.0	238	8.4	12.5	10.8	103
APR							
20...	1406	1.00	285	8.5	22.0	9.6	113
20...	1410	10.0	285	8.4	22.0	8.9	104
20...	1413	20.0	286	8.3	21.5	8.7	101
20...	1417	33.0	290	7.9	21.0	7.8	90
JUL							
10...	1352	1.00	247	8.8	32.5	8.1	114
10...	1355	10.0	247	8.8	31.5	7.7	106
10...	1358	20.0	265	7.7	29.5	.4	5
10...	1401	30.0	264	7.6	29.5	.9	12

324253097121801 - Lk Arlington Site BC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
FEB								
09...	1318	1.00	268	8.5	12.0	.61	10.5	99
09...	1321	10.0	268	8.5	11.5	--	10.5	98
09...	1324	20.0	268	8.4	11.5	--	10.2	95
09...	1327	30.0	274	8.0	11.5	--	7.8	73
09...	1330	37.0	275	8.1	12.0	--	7.8	74
APR								
20...	1432	1.00	286	8.4	22.0	.82	9.0	105
20...	1436	10.0	286	8.4	22.0	--	9.0	105
20...	1440	20.0	286	8.3	21.5	--	8.9	103
20...	1446	30.0	290	7.8	20.5	--	7.2	82
20...	1451	38.0	288	7.8	20.0	--	6.9	78
JUL								
10...	1411	1.00	247	8.9	32.5	.73	8.2	115
10...	1414	10.0	247	8.8	32.0	--	8.0	112
10...	1417	20.0	262	7.7	29.0	--	2.0	26
10...	1421	30.0	264	7.4	27.0	--	.2	3
10...	1425	36.0	257	7.4	27.0	--	.4	5

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							
09...	1339	1.00	268	8.5	12.0	10.2	96
09...	1341	10.0	268	8.5	12.0	10.1	95
09...	1344	20.0	269	8.4	11.5	10.0	93
09...	1347	28.0	273	8.2	11.5	8.0	75
APR							
20...	1459	1.00	286	8.4	22.0	9.1	107
20...	1502	10.0	286	8.4	22.0	9.0	105
20...	1505	20.0	288	8.0	20.5	7.7	88
20...	1508	30.0	292	7.7	20.0	6.3	71
JUL							
10...	1431	1.00	247	8.9	32.6	8.6	121
10...	1434	10.0	247	8.9	32.0	8.1	113
10...	1436	20.0	259	7.9	29.5	3.2	43
10...	1439	29.0	267	7.4	28.0	.4	5

324257097130301 - Lk Arlington 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
09...	1406	1.00	269	8.7	15.5	.55	10.5	107
09...	1408	10.0	269	8.6	15.5	--	10.5	107
09...	1410	20.0	269	8.6	15.0	--	10.5	--
APR								
20...	1520	1.00	290	8.3	29.0	.61	8.0	107
20...	1523	10.0	291	8.3	28.0	--	8.0	105
20...	1526	23.0	291	8.3	27.0	--	8.1	104
JUL								
10...	1451	1.00	248	8.7	41.5	.67	7.0	114
10...	1454	10.0	248	8.7	40.5	--	7.1	113
10...	1457	20.0	249	8.6	39.0	--	6.9	108

324228097130301 - Lk Arlington 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
09...	1422	1.00	270	8.4	13.0	.52	9.9	96
09...	1424	10.0	270	8.3	12.0	--	9.2	87
09...	1427	17.0	271	8.2	12.0	--	9.0	85
APR								
20...	1538	1.00	287	8.3	25.0	.67	8.6	106
20...	1541	10.0	284	8.3	22.5	--	9.0	106
20...	1544	20.0	287	8.0	21.5	--	7.0	81
JUL								
10...	1508	1.00	250	8.7	35.0	.67	7.5	110
10...	1511	10.0	250	8.7	32.0	--	7.6	106
10...	1514	18.0	257	8.2	31.0	--	5.0	69

324143097132201 - Lk Arlington 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)	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										
09...	1442	1.00	263	8.7	12.5	10.5	101	100	8	33.4
09...	1446	10.0	264	8.6	12.5	10.8	104	--	--	--
09...	1450	20.0	264	8.6	12.5	10.6	102	100	9	33.8
APR										
20...	1600	1.00	283	8.5	22.0	9.7	113	110	7	37.0
20...	1603	10.0	282	8.4	21.5	9.3	107	--	--	--
20...	1608	22.0	284	8.2	21.0	8.7	99	110	--	37.1
JUL										
10...	1532	1.00	253	8.7	31.0	7.8	107	89	--	29.8
10...	1540	10.0	255	8.5	30.5	6.7	91	--	--	--
10...	1548	23.0	275	7.5	29.5	.4	5	98	--	33.5

08049200 LAKE ARLINGTON AT ARLINGTON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

324143097132201 - Lk Arlington 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)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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										
09...	3.92	14.2	.6	23	4.6	92	24.6	13.5	.2	3.0
09...	--	--	--	--	--	--	--	--	--	--
09...	3.92	14.3	.6	23	4.5	92	25.0	13.4	.3	3.0
APR										
20...	3.94	15.1	.6	22	4.2	100	25.2	13.1	.3	4.2
20...	--	--	--	--	--	--	--	--	--	--
20...	3.90	14.7	.6	22	4.1	110	25.1	13.0	.2	4.4
JUL										
10...	3.49	12.2	.6	22	4.3	90	20.5	11.1	.2	2.5
10...	--	--	--	--	--	--	--	--	--	--
10...	3.62	12.6	.6	21	4.3	99	19.9	11.2	.2	3.5

324143097132201 - Lk Arlington Site EC

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB										
09...	153	<.010	<.050	<.020	--	.32	<.050	<.010	<10	E1
09...	--	--	--	--	--	--	--	--	--	--
09...	153	<.010	<.050	<.020	--	.33	<.050	<.010	10	4
APR										
20...	165	<.010	.076	<.020	--	.39	<.050	<.010	<10	<2
20...	--	--	--	--	--	--	--	--	--	--
20...	169	<.010	.112	<.020	--	.40	<.050	<.010	<10	E2
JUL										
10...	138	<.010	<.050	<.020	--	.33	<.050	<.010	<10	<2
10...	--	<.010	<.050	<.020	--	.35	<.050	<.010	<10	4
10...	149	<.010	<.050	.093	.34	.43	<.050	<.010	40	379

324133097130601 - Lk Arlington Site EL

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							
09...	1456	1.00	264	8.7	12.5	11.2	108
09...	1458	10.0	264	8.7	12.5	11.2	108
09...	1500	15.0	265	8.6	12.5	11.1	107
APR							
20...	1614	1.00	285	8.5	22.0	9.6	112
20...	1617	10.0	285	8.3	21.0	8.9	102
20...	1620	20.0	285	8.2	21.0	8.7	99
JUL							
10...	1558	1.00	253	8.8	31.0	8.1	111
10...	1601	10.0	253	8.7	30.5	7.1	96
10...	1604	18.0	263	7.9	30.0	3.6	49

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
FEB										
09...	1518	1.00	260	8.7	13.5	11.4	112	97	7	32.5
09...	1523	11.0	261	8.7	13.0	11.3	110	98	6	32.7
APR										
20...	1638	1.00	281	8.3	21.0	9.1	104	110	--	35.9
20...	1645	14.0	282	8.2	21.0	8.5	97	100	6	35.7
JUL										
10...	1624	1.00	257	8.7	30.5	8.2	111	90	0	30.0
10...	1632	13.0	260	8.4	30.0	6.4	86	90	0	30.3

324041097134601 - Lk Arlington Site FC

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB										
09...	3.88	14.3	.6	23	4.4	90	24.4	13.5	.2	3.0
09...	3.90	14.3	.6	23	4.2	92	24.6	13.6	.2	3.0
APR										
20...	3.81	14.8	.6	23	4.1	110	25.4	12.4	.3	4.1
20...	3.81	14.9	.6	23	4.0	99	25.5	12.4	.3	4.1
JUL										
10...	3.57	12.7	.6	22	4.4	89	21.4	11.2	.3	2.7
10...	3.59	12.9	.6	23	4.3	90	21.4	11.3	.6	2.8

324041097134601 - Lk Arlington Site FC

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
FEB										
09...	150	<.010	<.050	<.020	--	.29	<.050	<.010	<10	<2
09...	152	<.010	<.050	<.020	--	.31	<.050	<.010	<10	<2
APR										
20...	166	<.010	.108	<.020	--	.42	<.050	<.010	<10	2
20...	161	<.010	.118	.029	.37	.40	<.050	<.010	<10	3
JUL										
10...	140	<.010	<.050	<.020	--	.33	<.050	<.010	<10	<2
10...	141	<.010	<.050	<.020	--	.34	<.050	<.010	<10	E1

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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 sea level. 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 Sep 30, 1982, water-stage recorder at present site and at datum 5.00 ft higher than present datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Apr 1925, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 37,066 acre-ft). Six other upstream reservoirs with a combined capacity of 716,000 acre-ft now regulate flow. 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	622	187	195	278	307	349	2020	262	416	216	184
2	150	355	183	178	253	287	653	842	251	368	215	172
3	152	235	182	192	252	376	460	1090	273	336	210	171
4	152	215	196	195	244	297	324	1880	5590	311	216	163
5	150	199	184	198	464	277	298	780	e7150	292	209	184
6	145	195	189	205	418	274	268	467	e3500	286	219	184
7	144	190	186	308	243	269	260	364	2580	284	216	181
8	142	193	181	1530	234	256	240	321	2300	259	210	190
9	181	179	329	726	234	279	229	297	1990	245	212	169
10	224	173	325	352	228	392	229	270	3510	243	207	178
11	168	174	256	271	230	645	285	257	3530	242	204	181
12	158	223	2680	250	226	338	1400	250	2010	242	199	178
13	167	192	1140	227	230	257	756	233	1580	238	211	180
14	169	177	420	222	234	250	387	224	1590	239	212	180
15	156	181	287	207	230	248	299	223	5340	235	202	186
16	154	181	254	216	236	252	1440	224	2170	235	206	169
17	175	182	218	207	240	233	764	230	1410	231	219	169
18	279	183	820	209	238	219	400	225	1930	223	220	170
19	750	177	482	203	226	215	315	1140	1070	223	205	163
20	436	170	290	201	229	215	294	1490	942	222	208	167
21	238	172	244	197	234	317	270	578	757	220	205	162
22	206	257	226	190	408	669	250	355	618	224	208	172
23	172	448	217	203	3020	448	247	286	532	219	206	163
24	174	334	209	205	788	338	234	257	494	215	210	185
25	174	238	201	199	529	289	235	242	467	213	205	236
26	166	191	184	201	1510	704	224	236	457	216	191	215
27	158	173	195	443	524	658	228	237	608	236	193	205
28	169	173	203	880	357	1020	231	263	1490	232	185	203
29	175	180	199	437	320	3160	217	258	600	213	183	200
30	795	181	199	324	---	696	219	260	447	218	175	186
31	1150	---	188	297	---	414	---	240	---	223	184	---
TOTAL	7785	6743	11254	9868	12857	14599	12005	16039	55448	7799	6361	5446
MEAN	251	225	363	318	443	471	400	517	1848	252	205	182
MAX	1150	622	2680	1530	3020	3160	1440	2020	7150	416	220	236
MIN	142	170	181	178	226	215	217	223	251	213	175	162
AC-FT	15440	13370	22320	19570	25500	28960	23810	31810	110000	15470	12620	10800

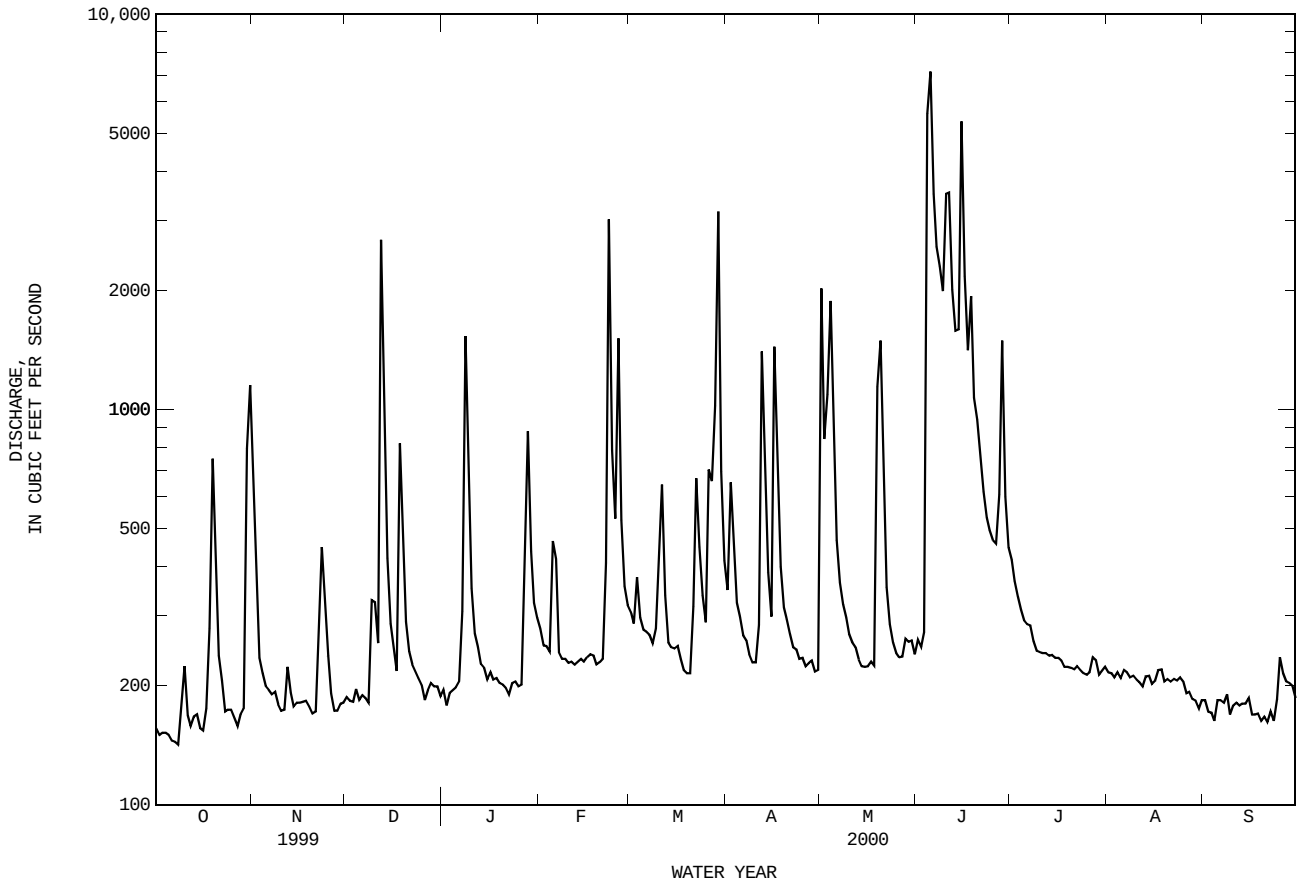
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	502	454	487	452	662	806	842	1614	1095	391	245	324
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

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	149183		166204			
ANNUAL MEAN	409		454		659	
HIGHEST ANNUAL MEAN					2629	1992
LOWEST ANNUAL MEAN					79.3	1956
HIGHEST DAILY MEAN	8000	May 30	7150	Jun 5	48900	May 3 1990
LOWEST DAILY MEAN	139	Sep 23	142	Oct 8	4.5	Sep 7 1925
ANNUAL SEVEN-DAY MINIMUM	148	Oct 2	148	Oct 2	7.3	Jun 17 1925
INSTANTANEOUS PEAK FLOW			10200	Jun 5	64400	May 3 1990
INSTANTANEOUS PEAK STAGE			21.54	Jun 5	33.88	May 3 1990
ANNUAL RUNOFF (AC-FT)	295900		329700		477300	
10 PERCENT EXCEEDS	737		802		1550	
50 PERCENT EXCEEDS	231		232		180	
90 PERCENT EXCEEDS	168		174		48	

e Estimated



08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Jan 1964 to current year.
BIOCHEMICAL DATA: Jan 1968 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1966 to Sep 1992, Aug 1993 to current year.
pH: Oct 1976 to Sep 1992, Aug 1993 to current year.
WATER TEMPERATURE: Oct 1966 to Sep 1992, Aug 1993 to current year.
DISSOLVED OXYGEN: Oct 1976 to Sep 1992, Aug 1993 to current year.

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

REMARKS.--Interruption in the record was caused by malfunctions of the instrument. Where maximum or minimum specific conductance values are not shown, mean value is estimated. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance with the exception of the 1993 water year. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 4%, chloride is 11%, sulfate is 13% and for hardness is 9%. 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, Dec 12, 1978; minimum, 108 microsiemens, 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, 14.8 mg/L, Dec 14, 16, 1983; minimum, 0.0 mg/L, on several days during period of record.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 985 microsiemens, Aug 21; minimum, 269 microsiemens, Jun 28.
pH: Maximum, 8.5 units, Sep 3, 15; minimum, 7.3 units, on many days.
WATER TEMPERATURE: Maximum, 33.8°C, Jul 15; minimum, 6.7°C, Jan 29.
DISSOLVED OXYGEN: Maximum, 10.6 mg/L, Jan 5; minimum, 2.2 mg/L, Jun 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
JAN										
11...	0850	245	635	7.6	13.4	9.0	87	3.6	180	58
MAR										
21...	0830	186	774	7.8	18.0	7.2	77	2.3	200	50
JUL										
13...	1235	207	792	8.0	31.0	7.1	99	3.9	170	--
AUG										
08...	1000	188	832	7.8	30.0	6.6	89	1.9	170	18
22...	1231	152	834	7.9	30.5	6.7	90	2.2	170	24
SEP										
07...	1000	110	789	8.1	29.0	6.9	90	2.2	170	46

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
JAN										
11...	57.9	8.09	56.9	2	9.1	120	65.6	61.8	.7	8.1
MAR										
21...	61.3	10.8	81.3	3	10.1	150	81.6	76.8	.9	7.8
JUL										
13...	52.6	9.17	82.3	3	11.4	170	62.9	83.1	.9	9.3
AUG										
08...	51.2	11.1	93.8	3	12.6	160	66.2	94.1	1.1	11.3
22...	48.5	11.5	91.3	3	12.4	140	66.8	94.8	.9	11.6
SEP										
07...	51.1	9.59	87.8	3	12.8	120	65.2	89.0	.7	11.0

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
11...	340	--	--	--	--	--	--	--	--	--
MAR										
21...	475	11.9	.016	11.9	.021	1.1	1.1	1.12	1.09	3.34
JUL										
13...	449	7.32	.032	7.35	<.020	--	1.0	.898	.822	2.52
AUG										
08...	438	.020	.042	.062	.046	1.1	1.1	.884	.836	2.56
22...	473	10.5	.029	10.5	.043	1.2	1.3	.766	.677	2.08
SEP										
07...	470	15.0	.042	15.0	.047	1.3	1.3	1.26	1.13	3.47

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1999 TO SEPTEMBER 2000

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	7785	722	416	8750	73	1530	66	1390	190
NOV.	1999	6743	723	417	7580	73	1320	66	1210	190
DEC.	1999	11254	546	311	9460	46	1400	51	1540	170
JAN.	2000	9868	571	325	8670	48	1270	53	1420	180
FEB.	2000	12857	561	320	11100	47	1620	52	1810	180
MAR.	2000	14599	699	402	15850	68	2670	64	2540	190
APR.	2000	12005	660	379	12290	63	2050	61	1970	180
MAY	2000	16039	560	320	13850	48	2100	52	2250	170
JUNE	2000	55448	696	400	59950	67	10100	64	9600	190
JULY	2000	7799	858	499	10510	97	2040	78	1640	190
AUG.	2000	6361	926	541	9290	110	1900	83	1430	180
SEPT	2000	5446	837	486	7150	93	1370	76	1120	190
TOTAL		166204	**	**	174500	**	29370	**	27920	**
WTD.AVG.		454	676	389	**	65	**	62	**	180

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	843	822	835	---	---	e501	745	712	723	614	605	611
2	863	843	857	552	493	522	785	745	768	605	596	600
3	867	848	855	634	552	602	794	779	786	600	585	591
4	861	829	849	790	626	723	801	701	758	586	574	580
5	839	793	816	821	773	792	765	727	756	613	586	597
6	797	756	771	843	790	823	823	759	794	622	608	614
7	830	772	802	835	795	811	823	749	780	631	531	612
8	848	830	836	827	805	818	749	723	732	577	495	527
9	848	796	829	805	772	786	786	570	704	526	448	508
10	854	802	836	780	731	743	853	739	792	554	526	536
11	829	755	786	841	752	799	739	536	683	567	554	562
12	784	743	765	844	803	821	536	297	391	585	562	576
13	778	750	763	824	750	770	449	340	413	596	580	588
14	798	760	773	800	768	788	512	447	472	601	589	594
15	807	790	797	817	780	797	589	512	556	617	595	608
16	814	797	805	818	771	793	657	589	631	616	605	610
17	813	784	804	771	736	745	690	646	670	612	602	606
18	802	595	781	817	757	779	690	431	556	602	590	596
19	639	533	593	829	817	824	524	413	463	601	584	591
20	558	512	534	832	806	818	547	524	539	610	596	601
21	619	558	596	834	803	819	568	542	562	613	605	608
22	732	590	674	822	504	791	577	560	570	616	608	611
23	784	717	751	734	458	638	593	575	585	617	609	612
24	813	770	791	848	694	740	595	587	591	611	607	609
25	817	793	809	720	694	709	598	593	596	608	601	605
26	815	774	789	754	703	742	604	591	598	609	595	599
27	774	744	754	771	736	755	600	585	589	616	553	591
28	822	762	791	761	730	742	588	576	582	590	548	565
29	---	---	e840	771	749	758	600	585	591	560	502	526
30	---	---	e750	773	730	749	611	599	603	580	560	572
31	---	---	e600	---	---	---	612	602	605	597	580	590
MONTH	---	---	769	---	---	750	853	297	627	631	448	587

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	595	582	589	682	650	665	832	797	817	719	340	464
2	604	583	593	698	635	677	853	753	808	479	373	435
3	615	604	608	716	652	683	774	729	747	489	384	450
4	632	612	624	719	648	684	779	761	771	499	367	398
5	627	590	619	711	672	699	811	775	799	502	377	444
6	590	571	578	773	700	742	821	800	812	607	502	547
7	589	583	585	726	676	708	832	802	823	676	607	627
8	625	589	612	719	677	702	841	823	833	708	674	693
9	616	607	609	765	700	742	831	824	826	735	683	714
10	620	614	618	743	538	682	847	817	830	743	685	721
11	630	620	627	727	576	644	820	523	771	792	727	762
12	646	627	634	642	564	584	679	388	524	811	780	797
13	657	643	647	682	642	671	528	415	467	824	793	809
14	660	653	658	720	657	701	629	528	565	852	800	833
15	655	633	638	738	671	708	706	629	678	843	816	824
16	633	617	623	766	719	752	708	352	514	823	800	812
17	643	631	636	777	752	768	497	352	418	817	773	791
18	643	634	639	807	748	779	617	497	547	827	793	815
19	640	631	635	828	786	810	687	617	649	793	366	588
20	652	630	641	825	792	812	755	687	732	457	378	412
21	654	639	646	813	578	752	784	732	759	535	387	455
22	639	475	614	714	578	666	768	736	752	631	535	560
23	528	457	486	624	573	595	800	740	773	683	631	669
24	530	490	514	677	610	645	789	767	780	743	659	711
25	552	530	539	719	647	695	767	728	744	774	734	752
26	547	482	510	---	---	e720	803	717	756	801	759	777
27	550	508	527	---	---	e740	825	783	805	820	792	802
28	642	550	575	---	---	e755	844	798	815	841	795	823
29	661	619	644	740	656	673	844	825	832	834	773	809
30	---	---	---	760	684	724	833	719	820	773	730	755
31	---	---	---	806	760	775	---	---	---	773	720	751
MONTH	661	457	602	---	---	708	853	352	726	852	340	671

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	812	755	784	823	763	798	953	825	914	878	854	865
2	826	785	809	829	743	804	927	844	896	892	863	879
3	821	775	794	826	783	811	961	836	923	901	858	881
4	---	---	e770	826	767	807	977	911	949	885	862	872
5	---	---	e735	844	796	813	977	917	951	909	842	862
6	---	---	e720	857	809	826	967	841	930	931	815	872
7	---	---	e702	844	788	824	961	890	940	815	774	791
8	---	---	e700	859	823	839	950	876	916	818	777	802
9	---	---	e695	873	826	846	922	864	899	836	815	827
10	---	---	e700	892	837	863	935	897	922	842	820	832
11	---	---	e695	882	732	838	952	900	935	876	842	864
12	---	---	e697	884	797	842	950	899	935	883	831	863
13	679	664	675	870	813	855	956	900	932	831	767	793
14	694	643	685	893	813	856	957	901	933	818	766	796
15	678	643	654	887	820	865	957	896	928	856	818	840
16	670	650	658	904	842	867	958	905	931	881	848	870
17	694	648	678	879	828	858	953	902	932	878	852	869
18	696	659	670	877	817	850	953	872	927	872	841	849
19	711	676	700	899	818	850	966	903	934	889	837	864
20	729	703	714	882	833	861	979	911	935	851	800	826
21	---	---	e714	912	714	872	985	937	959	859	800	835
22	---	---	e725	935	821	887	980	926	950	853	837	845
23	---	---	e737	934	805	896	952	924	934	910	853	885
24	---	---	e750	933	885	910	957	935	943	895	827	864
25	---	---	e700	939	810	902	958	916	936	881	828	862
26	---	---	e615	920	873	901	934	905	920	861	760	811
27	715	470	611	960	884	923	930	898	916	762	720	736
28	603	269	413	962	901	933	924	905	917	799	762	782
29	806	363	569	948	900	922	925	875	901	816	786	800
30	827	744	797	966	882	932	884	859	874	841	809	824
31	---	---	---	952	883	932	869	853	862	---	---	---
MONTH	---	---	696	966	714	864	985	825	925	931	720	839

e Estimated

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

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

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.9	22.5	23.7	19.9	18.0	19.0	18.0	16.9	17.5	16.5	14.8	15.7
2	26.0	23.2	24.5	19.5	17.7	18.4	19.3	17.7	18.5	17.9	16.5	17.2
3	27.2	24.6	25.8	18.2	16.8	17.5	20.5	19.0	19.7	17.9	16.1	17.4
4	26.5	24.4	25.2	19.4	17.0	18.2	20.3	18.6	19.8	16.1	13.9	14.9
5	25.7	23.4	24.5	21.3	19.0	20.2	18.6	16.4	17.4	13.9	12.8	13.2
6	25.5	23.7	24.5	22.5	20.7	21.5	16.6	15.4	16.0	14.7	12.5	13.5
7	25.4	23.2	24.3	23.0	21.3	22.1	15.8	14.9	15.4	15.7	12.5	15.0
8	25.2	24.0	24.6	23.1	21.7	22.3	17.7	15.7	16.7	15.3	11.5	13.1
9	26.1	24.2	25.0	22.4	21.4	21.9	17.9	16.5	17.4	13.0	11.6	12.2
10	26.9	25.0	25.7	22.6	21.1	21.9	17.8	16.0	17.0	13.6	11.9	12.7
11	26.6	25.1	25.8	23.0	21.3	22.2	16.0	13.5	15.2	15.0	13.5	14.1
12	26.7	24.6	25.6	23.3	21.9	22.5	15.6	11.8	12.9	17.4	14.4	16.0
13	26.9	24.9	25.9	22.6	21.5	22.1	13.0	11.9	12.4	17.2	16.0	16.7
14	26.7	25.0	25.8	22.6	21.1	21.8	13.4	11.6	12.6	16.0	14.9	15.4
15	26.7	24.9	25.7	22.6	21.2	21.9	13.5	12.4	12.9	16.0	14.5	15.2
16	26.6	25.0	25.8	22.2	20.8	21.5	13.9	12.6	13.2	17.7	15.7	16.8
17	25.8	21.5	23.7	21.9	20.6	21.3	14.9	13.1	14.0	18.9	17.1	18.0
18	21.7	18.6	21.2	21.8	20.7	21.2	16.6	12.8	14.5	18.9	17.9	18.3
19	21.7	18.6	20.1	22.2	21.0	21.4	13.4	11.4	12.5	18.4	17.2	17.8
20	20.1	18.0	19.1	21.0	19.7	20.4	13.3	12.1	12.8	17.6	15.5	16.6
21	20.7	18.7	19.6	20.7	19.3	20.0	13.4	12.1	12.7	15.5	14.5	15.0
22	22.1	19.9	20.9	21.7	19.8	21.0	13.5	12.0	12.7	16.3	14.7	15.5
23	22.3	20.9	21.5	21.3	19.8	20.5	13.9	12.4	13.1	17.2	15.8	16.4
24	21.7	20.2	20.9	20.3	17.9	19.0	14.7	12.9	13.7	16.3	14.9	15.6
25	21.7	19.8	20.7	18.1	16.8	17.6	14.7	13.5	14.0	15.2	14.2	14.6
26	22.8	20.7	21.7	17.7	16.5	17.0	15.1	13.8	14.4	14.2	12.8	13.5
27	23.1	21.4	22.2	18.1	16.5	17.3	15.6	14.1	14.8	12.8	8.1	10.5
28	23.4	21.8	22.6	18.8	17.2	18.0	15.1	13.8	14.4	10.9	7.4	9.0
29	23.4	22.3	22.8	19.0	17.8	18.4	15.6	13.9	14.7	8.3	6.7	7.5
30	22.8	19.2	21.2	18.4	17.2	17.8	16.0	14.8	15.4	10.3	8.3	9.3
31	20.4	18.4	18.8	---	---	---	16.4	14.9	15.6	12.3	10.3	11.4
MONTH	27.2	18.0	23.2	23.3	16.5	20.2	20.5	11.4	15.0	18.9	6.7	14.5

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.7	11.9	13.0	19.7	18.1	19.0	19.4	18.8	19.1	22.6	20.1	21.2
2	14.2	12.6	13.3	19.3	18.6	18.8	19.0	17.9	18.6	23.2	21.1	22.0
3	15.3	13.1	14.0	18.7	16.9	17.7	18.4	17.3	17.8	22.5	17.9	21.1
4	15.4	14.1	14.6	18.1	16.3	17.1	19.3	16.8	18.0	21.4	19.6	20.9
5	15.1	13.4	14.2	18.1	16.4	17.3	20.7	17.7	19.1	21.7	19.6	20.8
6	13.6	10.7	12.2	19.7	17.8	18.7	22.4	19.3	20.6	23.8	21.5	22.5
7	14.4	12.6	13.4	20.3	19.2	19.7	24.2	21.0	22.3	26.2	23.1	24.5
8	16.6	13.6	15.1	21.1	19.3	20.0	22.3	20.3	21.3	27.4	24.5	25.9
9	17.1	15.4	16.2	21.2	19.1	20.1	21.1	19.2	20.0	26.5	25.0	25.6
10	18.7	16.4	17.4	20.2	17.5	18.8	20.0	19.3	19.6	25.8	23.7	24.7
11	18.7	17.4	18.0	17.7	16.4	17.2	21.9	19.7	20.5	27.5	24.7	25.9
12	17.8	16.5	17.1	17.3	15.0	16.3	20.7	18.2	19.5	28.8	26.1	27.2
13	18.4	16.8	17.4	18.6	16.2	17.3	19.7	18.0	18.7	27.9	26.1	26.9
14	17.9	16.4	17.0	18.8	17.9	18.4	19.7	18.3	19.1	26.7	24.4	25.5
15	18.1	16.0	17.0	20.7	18.2	19.3	21.5	19.2	20.2	26.3	24.2	25.1
16	19.0	17.6	18.3	20.9	19.0	20.1	21.1	19.3	20.2	26.9	24.8	25.8
17	19.8	18.2	18.9	19.0	16.7	17.9	20.6	18.9	19.7	27.1	25.1	26.0
18	20.5	18.6	19.6	18.3	16.2	16.9	23.5	19.8	21.5	26.9	25.4	26.1
19	18.6	17.0	17.6	18.8	16.5	17.5	24.4	22.6	23.5	25.8	22.1	23.8
20	17.5	16.1	16.8	19.5	17.0	18.1	24.7	22.7	23.8	23.2	21.7	22.4
21	17.9	16.6	17.2	18.5	17.1	18.1	24.5	22.2	23.3	26.1	22.3	24.0
22	18.3	16.0	17.7	19.1	17.2	18.2	23.8	21.7	22.7	28.0	24.7	26.3
23	17.3	15.9	16.3	18.7	17.6	18.1	24.8	22.1	23.2	29.1	25.9	27.4
24	17.8	16.1	17.0	21.0	17.9	19.4	24.9	22.6	23.5	30.1	27.1	28.4
25	19.5	17.6	18.5	22.4	20.5	21.4	25.3	22.6	23.8	30.4	28.0	29.0
26	19.3	17.5	18.5	23.3	20.7	21.9	25.7	23.5	24.4	29.2	28.0	28.6
27	18.6	17.0	17.7	22.7	21.0	21.7	24.8	23.5	24.0	29.4	27.4	28.1
28	18.3	16.8	17.7	23.0	17.9	21.0	25.2	22.5	23.6	30.0	27.0	28.3
29	19.7	17.8	18.7	21.4	20.0	20.9	25.0	23.0	23.9	30.2	27.3	28.6
30	---	---	---	20.8	19.6	20.4	24.5	22.6	24.0	30.6	28.3	29.3
31	---	---	---	19.7	18.5	19.2	---	---	---	30.6	28.6	29.5
MONTH	20.5	10.7	16.6	23.3	15.0	18.9	25.7	16.8	21.3	30.6	17.9	25.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.2	28.6	29.3	29.5	27.6	28.4	32.1	29.3	30.6	32.6	30.2	31.3
2	29.7	28.3	29.1	30.5	28.1	29.1	31.8	29.4	30.6	33.0	30.3	31.5
3	29.2	27.5	28.2	31.0	28.6	29.7	32.7	29.8	31.2	33.2	30.5	31.7
4	---	---	---	31.0	28.6	29.7	32.7	30.1	31.3	33.2	30.4	31.7
5	---	---	---	31.6	28.8	30.0	32.6	30.2	31.2	32.3	30.6	31.4
6	---	---	---	31.8	29.3	30.4	32.6	29.8	31.1	31.4	29.2	30.3
7	---	---	---	31.7	29.7	30.6	32.6	29.9	31.1	31.0	28.7	29.7
8	25.5	24.9	25.3	32.5	30.2	31.1	32.5	29.9	31.1	29.9	28.4	29.1
9	26.1	25.1	25.7	32.5	30.6	31.3	32.3	29.9	31.0	30.5	28.3	29.2
10	25.8	24.5	25.3	32.3	30.1	31.0	32.3	29.8	31.0	31.1	28.8	29.8
11	25.4	24.5	24.9	32.4	29.9	30.9	32.5	30.0	31.1	31.8	29.5	30.4
12	26.5	25.4	25.9	32.6	30.0	31.1	33.1	30.5	31.7	30.9	29.2	30.0
13	27.5	26.2	26.7	33.1	30.6	31.6	32.6	30.6	31.5	30.0	28.2	29.0
14	27.2	24.6	26.5	33.6	30.9	32.1	31.8	29.5	30.6	31.1	28.3	29.5
15	25.5	23.7	24.6	33.8	31.3	32.4	32.0	29.5	30.7	31.1	29.0	29.9
16	27.5	25.5	26.5	32.8	31.4	32.0	32.8	30.0	31.2	29.7	27.5	28.5
17	27.9	26.9	27.3	32.3	30.1	31.1	32.9	30.4	31.5	28.4	26.3	27.3
18	27.2	26.4	26.8	32.4	30.0	31.1	32.9	30.4	31.6	27.7	25.2	26.3
19	27.8	26.6	27.0	33.0	30.1	31.4	32.7	30.5	31.5	27.7	25.3	26.4
20	28.4	26.9	27.6	33.2	30.6	31.8	32.2	29.7	30.8	28.7	25.9	27.1
21	---	---	---	33.3	30.8	31.9	32.1	29.7	30.8	28.3	26.2	27.1
22	---	---	---	32.8	30.9	31.7	31.9	29.8	30.8	29.0	26.9	27.7
23	---	---	---	32.2	30.2	31.0	31.9	29.7	30.7	29.9	27.6	28.7
24	---	---	---	31.7	29.3	30.3	32.0	29.9	30.9	29.3	25.4	27.8
25	---	---	---	31.3	28.9	29.9	32.5	30.2	31.2	25.4	23.1	24.0
26	---	---	---	31.7	28.7	30.1	32.8	30.2	31.3	24.2	22.1	23.1
27	30.6	28.2	29.1	30.5	29.5	30.1	32.5	30.1	31.2	24.4	21.8	23.1
28	30.3	28.2	29.0	31.4	28.8	29.9	32.5	29.9	31.0	25.3	22.7	23.9
29	29.9	28.3	29.1	31.2	29.0	30.0	32.3	29.8	30.9	25.6	23.3	24.4
30	28.9	28.1	28.6	31.8	29.2	30.3	32.2	29.8	30.9	25.8	23.4	24.5
31	---	---	---	31.8	29.2	30.4	32.3	29.8	31.0	---	---	---
MONTH	---	---	---	33.8	27.6	30.7	33.1	29.3	31.1	33.2	21.8	28.1

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	6.9	7.5	7.5	6.7	7.1	8.2	6.6	7.3	9.0	8.1	8.5
2	7.7	6.6	7.0	8.0	7.3	7.7	7.4	6.6	6.9	9.1	8.3	8.6
3	7.2	6.1	6.7	8.5	7.8	8.1	7.3	5.7	6.5	9.0	7.8	8.5
4	8.1	6.3	7.1	8.7	8.1	8.3	---	---	---	10.1	8.6	9.3
5	8.4	6.3	7.2	8.8	8.0	8.4	---	---	---	10.6	9.1	9.8
6	7.9	6.3	7.1	---	---	---	---	---	---	10.5	9.1	9.8
7	7.6	6.3	6.9	---	---	---	---	---	---	9.7	8.4	8.7
8	7.6	6.7	7.1	---	---	---	---	---	---	9.7	7.7	8.6
9	6.8	5.5	6.4	7.9	6.9	7.3	---	---	---	8.8	8.1	8.5
10	7.2	5.5	6.5	8.1	7.0	7.5	---	---	---	9.2	8.4	8.8
11	7.7	6.1	6.7	7.9	6.9	7.3	---	---	---	8.4	7.7	7.9
12	7.7	6.1	6.8	7.7	6.8	7.2	---	---	---	7.8	7.2	7.4
13	7.5	6.1	6.6	8.1	7.0	7.4	9.4	8.3	9.1	8.0	6.9	7.4
14	7.5	5.9	6.5	7.7	6.8	7.2	9.5	9.2	9.4	8.8	7.3	8.0
15	7.5	6.0	6.7	7.5	6.3	6.9	9.3	9.1	9.2	9.2	7.6	8.1
16	7.1	5.7	6.4	6.8	5.7	6.2	9.2	8.8	9.1	8.4	7.2	7.9
17	6.3	5.4	5.7	7.3	6.1	6.6	9.1	8.3	8.6	8.1	6.6	7.4
18	8.0	6.2	6.7	7.4	6.3	6.7	9.7	6.9	8.6	---	---	---
19	8.0	6.2	6.9	7.5	6.1	6.6	9.8	8.9	9.3	---	---	---
20	7.0	5.8	6.6	7.5	6.3	6.8	9.8	8.6	9.3	---	---	---
21	6.9	5.3	6.5	7.7	6.4	7.0	9.9	9.6	9.7	---	---	---
22	6.8	3.7	5.8	8.1	5.6	6.6	9.9	9.7	9.8	8.0	7.0	7.3
23	5.3	3.4	4.4	8.1	6.3	6.7	9.8	9.6	9.7	8.6	6.9	7.5
24	6.8	3.7	6.0	6.7	5.9	6.4	9.7	9.4	9.6	8.8	7.5	8.3
25	7.1	5.6	6.6	8.3	6.6	7.5	9.7	9.2	9.4	10.5	8.6	9.5
26	7.2	6.2	6.5	8.1	7.2	7.6	9.6	9.1	9.3	10.1	8.8	9.5
27	7.2	5.4	6.5	8.1	7.2	7.5	9.7	8.9	9.3	9.9	8.8	9.5
28	6.9	6.1	6.5	7.9	6.8	7.2	9.7	9.1	9.4	10.2	8.6	9.6
29	7.5	5.8	6.8	7.8	6.4	7.1	9.5	8.8	9.1	9.6	5.4	7.9
30	8.3	5.7	7.2	8.1	6.6	7.3	9.4	8.6	8.9	8.0	4.6	6.9
31	6.7	5.6	6.1	---	---	---	9.2	8.4	8.7	7.4	2.7	5.6
MONTH	8.4	3.4	6.6	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	6.7	7.4	8.7	7.9	8.3	7.8	7.4	7.6	---	---	---
2	8.1	7.3	7.6	8.3	8.0	8.1	---	---	---	---	---	---
3	8.8	7.4	8.2	8.6	7.9	8.2	8.1	7.5	7.8	---	---	---
4	8.5	7.4	8.1	9.0	7.9	8.4	8.4	8.0	8.1	---	---	---
5	9.6	8.0	9.0	9.3	8.4	8.8	8.3	7.7	8.1	---	---	---
6	10.2	7.9	9.4	9.2	8.2	8.7	8.1	7.4	7.6	---	---	---
7	---	---	---	9.1	8.1	8.5	8.3	7.3	7.7	---	---	---
8	---	---	---	9.4	7.5	8.4	9.5	7.4	8.2	---	---	---
9	---	---	---	9.5	8.0	8.7	10.5	8.1	9.1	9.2	7.3	8.0
10	---	---	---	8.8	7.9	8.3	10.0	8.5	9.3	9.8	7.6	8.6
11	---	---	---	8.7	7.7	8.2	9.9	8.9	9.3	9.8	8.0	9.0
12	---	---	---	9.4	8.3	8.8	9.2	7.2	8.2	9.7	7.8	8.8
13	---	---	---	9.0	8.2	8.6	8.4	7.7	8.1	9.7	7.7	8.8
14	9.9	7.6	8.5	8.8	8.0	8.4	8.5	8.0	8.2	9.6	7.7	8.5
15	9.1	6.9	8.0	8.2	7.4	7.7	8.6	8.0	8.3	9.5	7.7	8.5
16	8.2	6.2	7.2	7.4	6.9	7.2	8.6	7.2	7.8	8.6	7.3	8.1
17	8.2	7.2	7.6	7.5	6.2	7.0	7.7	7.2	7.4	9.0	7.3	8.1
18	7.5	6.0	6.9	8.2	6.9	7.6	7.9	7.6	7.7	9.8	7.5	8.5
19	8.6	6.0	7.4	8.6	7.4	7.9	7.8	7.2	7.5	8.4	6.5	7.2
20	7.6	5.7	6.6	8.7	7.5	8.0	8.2	7.0	7.6	7.0	5.9	6.5
21	7.2	5.0	5.9	7.8	7.0	7.4	8.8	7.4	8.0	7.7	6.7	7.1
22	7.8	5.5	6.8	7.1	5.6	6.3	9.1	7.4	8.2	9.0	7.0	7.9
23	7.8	6.1	7.0	6.5	6.1	6.3	9.6	7.5	8.4	9.5	7.2	8.2
24	7.2	6.6	6.9	---	---	---	10.0	7.5	8.5	9.2	7.4	8.2
25	7.1	5.9	6.6	---	---	---	10.0	7.6	8.6	8.7	7.0	7.9
26	---	---	---	---	---	---	9.6	7.4	8.3	8.7	6.3	7.5
27	---	---	---	---	---	---	8.3	7.0	7.7	7.3	5.6	6.4
28	---	---	---	---	---	---	9.4	7.1	8.0	7.5	6.1	6.8
29	8.4	7.9	8.1	7.3	4.5	5.6	9.4	7.0	8.1	8.7	6.6	7.4
30	---	---	---	7.1	6.2	6.7	7.9	6.8	7.3	9.0	6.7	7.8
31	---	---	---	7.6	7.1	7.4	---	---	---	8.7	7.4	7.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08049500 WEST FORK TRINITY RIVER AT GRAND PRAIRIE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	6.6	7.2	9.1	7.0	8.2	10.1	7.0	8.7	---	---	---
2	---	---	---	10.1	7.2	8.4	9.5	6.8	8.4	7.5	4.7	6.3
3	---	---	---	9.9	6.6	8.1	9.8	6.7	8.4	7.5	4.4	6.3
4	---	---	---	9.6	6.5	7.9	9.4	6.1	8.0	7.6	4.3	6.3
5	---	---	---	9.4	6.3	7.8	9.6	5.6	7.9	7.5	4.4	6.3
6	---	---	---	9.2	6.1	7.6	9.3	6.6	8.1	9.1	5.0	7.0
7	---	---	---	8.7	6.3	7.5	9.5	6.5	8.1	8.6	6.1	7.5
8	---	---	---	9.0	6.0	7.4	8.8	6.3	7.8	9.7	5.8	7.7
9	---	---	---	9.4	6.2	7.6	8.7	7.0	8.1	9.0	4.5	6.4
10	---	---	---	9.4	6.2	7.6	9.6	6.8	8.2	6.8	4.3	5.6
11	---	---	---	9.7	6.3	7.7	9.6	6.0	7.9	6.7	3.1	5.0
12	---	---	---	9.7	6.3	7.8	8.6	6.0	7.5	7.1	3.8	5.5
13	7.5	6.9	7.1	9.9	6.2	7.9	8.6	5.7	7.4	9.6	4.4	6.3
14	7.9	6.8	7.2	10.1	6.2	7.8	9.5	6.5	8.0	7.2	3.9	5.7
15	7.9	6.6	7.0	9.6	6.0	7.6	9.5	7.2	8.5	7.3	3.8	5.8
16	7.0	6.7	6.9	9.5	5.9	7.5	9.5	7.1	8.4	7.7	4.1	6.0
17	7.4	6.7	7.1	10.2	6.4	8.0	9.2	7.0	8.2	7.5	4.4	6.0
18	7.7	6.3	6.8	10.2	6.0	8.0	9.1	6.9	8.1	7.5	4.5	6.2
19	7.8	7.0	7.4	9.4	6.2	7.7	9.3	6.4	8.1	7.5	4.4	6.1
20	8.0	7.0	7.6	10.0	7.0	8.5	9.0	6.8	7.9	7.4	3.5	5.8
21	8.2	7.0	7.6	9.9	7.0	8.4	8.7	6.8	7.8	7.0	3.6	5.8
22	8.2	7.0	7.6	9.4	6.8	8.1	8.0	6.1	7.0	6.8	3.1	5.1
23	7.8	6.8	7.4	9.2	6.7	8.0	---	---	---	5.8	2.7	4.5
24	8.0	6.6	7.4	9.6	6.9	8.3	---	---	---	6.3	3.6	4.7
25	7.8	6.6	7.3	9.5	7.0	8.4	---	---	---	7.0	3.4	5.2
26	9.0	7.3	7.7	9.7	7.6	8.7	---	---	---	8.2	4.4	6.3
27	10.2	4.9	7.8	8.9	7.1	8.2	---	---	---	8.3	4.4	6.4
28	10.0	2.2	5.9	9.5	7.0	8.2	---	---	---	7.8	4.4	6.2
29	8.4	3.2	6.4	9.4	6.9	8.2	---	---	---	7.8	4.5	6.2
30	8.8	5.2	7.3	9.5	7.1	8.4	---	---	---	8.0	4.0	5.8
31	---	---	---	9.4	7.0	8.4	---	---	---	---	---	---
MONTH	---	---	---	10.2	5.9	8.0	---	---	---	---	---	---

08049580 MOUNTAIN CREEK NEAR VENUS, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 32°29′27", long 97°07′22", Johnson County, Hydrologic Unit 12030102, on right bank on downstream 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.--Nov 1985 to Sep 1987, Oct 1987 to current year (peaks above base discharge).
Water-quality records.--Chemical data: Dec 1985 to Sep 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 580.49 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s, May 17, 1989, gage height, 15.04 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 580 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0540	3,020	11.11	Jun 15	0215	848	8.42

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08049700 WALNUT CREEK NEAR MANSFIELD, TX

LOCATION.--Lat 32°34′51", long 97°06′06", Tarrant County, Hydrologic Unit 12030102, on right bank at downstream side of bridge on county road, 2.6 mi northeast of Mansfield, 3.3 mi downstream from Texas and New Orleans Railroad Co. bridge, and 10.2 mi upstream from mouth.

DRAINAGE AREA.--62.8 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 531.08 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0400	5,590	26.26	Jun 15	0115	1,890	18.65

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

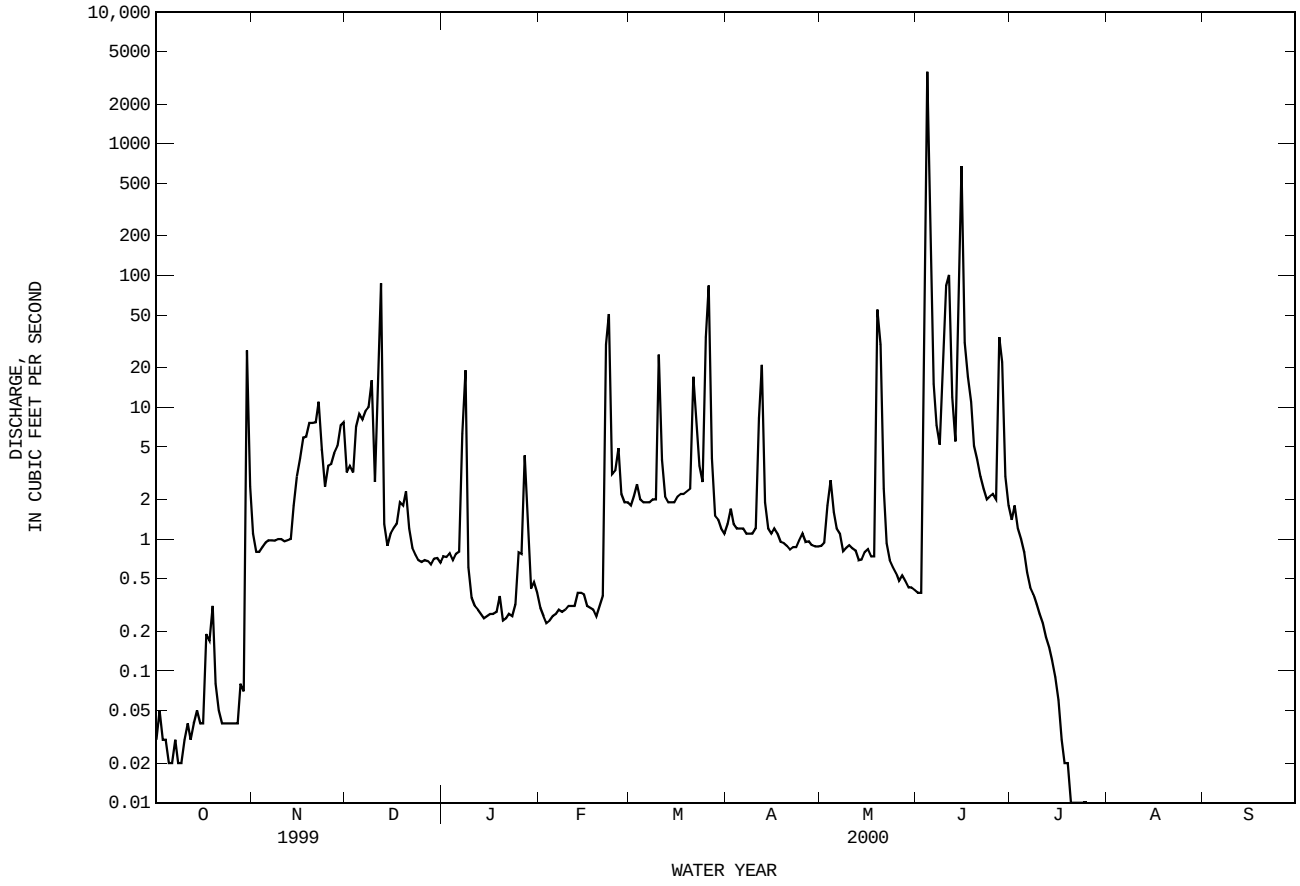
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	1.1	3.2	.74	.30	1.8	1.3	.89	.39	1.4	.00	.00
2	.05	.80	3.6	.73	.26	2.1	1.7	.94	.39	1.8	.00	.00
3	.03	.80	3.2	.78	.23	2.6	1.3	1.8	6.1	1.2	.00	.00
4	.03	.87	7.1	.69	.24	2.0	1.2	2.8	3510	1.0	.00	.00
5	.02	.94	8.9	.77	.26	1.9	1.2	1.6	149	.79	.00	.00
6	.02	.98	8.1	.80	.27	1.9	1.2	1.2	15	.56	.00	.00
7	.03	.98	9.4	6.3	.29	1.9	1.1	1.1	7.3	.43	.00	.00
8	.02	.97	10	19	.28	2.0	1.1	.81	5.2	.38	.00	.00
9	.02	1.0	16	.61	.29	2.0	1.1	.86	21	.32	.00	.00
10	.03	1.0	2.7	.36	.31	25	1.2	.90	84	.27	.00	.00
11	.04	.96	11	.31	.31	4.0	8.3	.85	101	.23	.00	.00
12	.03	.98	87	.29	.31	2.1	21	.82	12	.18	.00	.00
13	.04	1.0	1.3	.27	.39	1.9	1.9	.69	5.5	.15	.00	.00
14	.05	1.8	.89	.25	.39	1.9	1.2	.70	48	.12	.00	.00
15	.04	3.0	1.1	.26	.38	1.9	1.1	.80	676	.09	.00	.00
16	.04	4.1	1.2	.27	.31	2.1	1.2	.84	31	.06	.00	.00
17	.19	5.9	1.3	.27	.30	2.2	1.1	.74	17	.03	.00	.00
18	.17	6.0	1.9	.28	.29	2.2	.95	.74	11	.02	.00	.00
19	.31	7.6	1.8	.37	.26	2.3	.93	55	5.1	.02	.00	.00
20	.08	7.6	2.3	.24	.31	2.4	.89	30	4.0	.01	.00	.00
21	.05	7.7	1.2	.25	.37	17	.83	2.4	3.0	.01	.00	.00
22	.04	11	.86	.27	30	8.6	.87	.93	2.4	.01	.00	.00
23	.04	4.8	.76	.26	51	3.6	.87	.69	2.0	.01	.00	.00
24	.04	2.5	.69	.32	3.1	2.7	.98	.61	2.1	.01	.00	.00
25	.04	3.6	.67	.79	3.3	34	1.1	.55	2.2	.01	.00	.00
26	.04	3.7	.69	.77	4.9	84	.95	.48	2.0	.00	.00	.00
27	.04	4.5	.68	4.3	2.2	4.1	.96	.53	34	.00	.00	.00
28	.08	5.1	.64	1.4	1.9	1.5	.90	.48	22	.00	.00	.00
29	.07	7.3	.71	.42	1.9	1.4	.88	.43	3.0	.00	.00	.00
30	27	7.7	.72	.47	---	1.2	.88	.43	1.8	.00	.00	.00
31	2.5	---	.66	.39	---	1.1	---	.41	---	.00	.00	---
TOTAL	31.21	106.28	190.27	43.23	104.65	225.4	60.19	112.02	4783.48	9.11	0.00	0.00
MEAN	1.01	3.54	6.14	1.39	3.61	7.27	2.01	3.61	159	.29	.000	.000
MAX	27	11	87	19	51	84	21	55	3510	1.8	.00	.00
MIN	.02	.80	.64	.24	.23	1.1	.83	.41	.39	.00	.00	.00
AC-FT	62	211	377	86	208	447	119	222	9490	18	.00	.00
CFSM	.02	.06	.10	.02	.06	.12	.03	.06	2.54	.00	.00	.00
IN.	.02	.06	.11	.03	.06	.13	.04	.07	2.83	.01	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

MEAN	17.6	6.47	18.3	8.01	23.0	27.6	38.1	49.9	31.0	3.75	2.26	5.67
MAX	272	50.1	326	64.5	173	184	174	378	300	57.1	21.8	67.4
(WY)	1992	1995	1992	1992	1997	1977	1990	1989	1986	1975	1979	1973
MIN	.000	.000	.000	.000	.014	.13	.40	.074	.030	.000	.000	.000
(WY)	1964	1961	1964	1981	1981	1963	1978	1962	1963	1964	1961	1971

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	1832.78		5665.84			
ANNUAL MEAN	5.02		15.5		19.3	
HIGHEST ANNUAL MEAN					82.2	1992
LOWEST ANNUAL MEAN					1.34	1978
HIGHEST DAILY MEAN	136	Jan 29	3510	Jun 4	7900	May 17 1989
LOWEST DAILY MEAN	.01	Aug 13	.00	Jul 26	.00	Oct 1 1960
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 20	.00	Jul 26	.00	Oct 15 1960
INSTANTANEOUS PEAK FLOW			5590	Jun 4	22800	May 17 1989
INSTANTANEOUS PEAK STAGE			26.26	Jun 4	33.77	May 17 1989
ANNUAL RUNOFF (AC-FT)	3640		11240		13960	
ANNUAL RUNOFF (CFSM)	.080		.25		.31	
ANNUAL RUNOFF (INCHES)	1.09		3.36		4.17	
10 PERCENT EXCEEDS	9.2		7.7		13	
50 PERCENT EXCEEDS	.89		.76		.26	
90 PERCENT EXCEEDS	.02		.00		.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 current year.
Water-quality records.--Chemical data: Jan 1986 to Sep 1993. Biochemical data: Jan 1986 to Sep 1993.

GAGE.--Water-stage recorder. Datum of gage is sea level (U.S. Army Corps of Engineers benchmark).

REMARKS.--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 capacity table was provided by the U.S. Army Corps of Engineers. 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.--Record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, 200,200 acre-ft, Jun 7, elevation, 525.00 ft; minimum contents, 156,900 acre-ft, Dec 8, elevation, 519.18 ft.

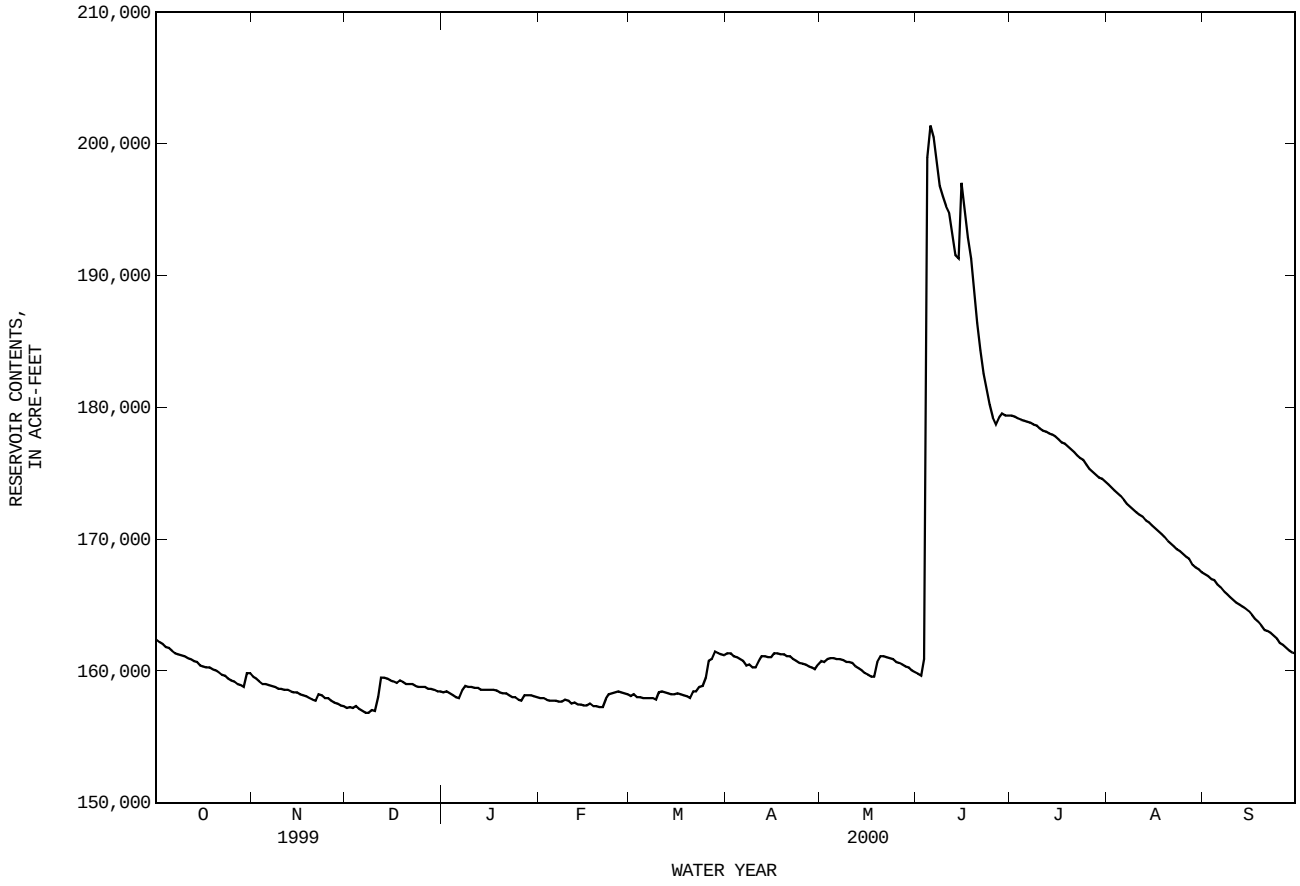
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162400	159600	157200	158400	157900	158100	161300	160800	159800	179400	174100	167300
2	162200	159400	157200	158400	157900	158200	161300	160700	159600	179300	173900	167200
3	162000	159200	157200	158300	157800	158000	161100	160900	160900	179100	173700	167000
4	161800	159000	157300	158200	157700	158000	161000	161000	198900	179100	173500	166900
5	161700	159000	157100	158000	157700	157900	160900	161000	201400	179000	173300	166500
6	161500	158900	157000	157900	157700	157900	160800	160900	200500	178900	173000	166300
7	161300	158900	156800	158500	157700	157900	160400	160900	198600	178800	172700	166000
8	161300	158800	156800	158900	157700	157900	160500	160800	196800	178700	172400	165800
9	161200	158600	157000	158800	157800	157800	160300	160700	196000	178600	172200	165600
10	161100	158600	157000	158800	157700	158400	160300	160700	195300	178400	172000	165400
11	161000	158600	158000	158700	157500	158400	160800	160600	194800	178200	171900	165200
12	160900	158600	159500	158700	157600	158400	161100	160300	193200	178200	171700	165000
13	160800	158400	159500	158600	157500	158300	161100	160200	191500	178000	171400	164900
14	160700	158400	159400	158600	157500	158200	161000	160000	191300	177900	171300	164700
15	160400	158400	159300	158600	157400	158200	161000	159800	197000	177800	171000	164500
16	160300	158200	159200	158600	157400	158300	161300	159700	195000	177600	170800	164200
17	160300	158200	159100	158600	157500	158200	161300	159600	192900	177300	170600	164000
18	160300	158100	159300	158500	157300	158200	161300	159600	191300	177300	170400	163700
19	160100	157900	159100	158400	157300	158100	161300	160700	188900	177000	170200	163500
20	160000	157800	159000	158300	157200	157900	161100	161100	186400	176800	169900	163100
21	159900	157700	159000	158300	157200	158400	161100	161100	184300	176600	169700	163000
22	159700	158200	159000	158200	157900	158400	160900	161000	182600	176400	169400	162900
23	159600	158200	158900	158000	158200	158800	160800	161000	181300	176100	169200	162700
24	159400	157900	158800	158000	158300	158900	160600	160900	180200	176000	169100	162500
25	159300	157900	158800	157800	158400	159500	160500	160700	179200	175600	168900	162100
26	159200	157700	158800	157700	158400	160800	160500	160600	178700	175300	168600	162000
27	159000	157600	158600	158200	158400	160900	160300	160500	179200	175100	168500	161700
28	158900	157500	158600	158200	158300	161500	160300	160300	179500	174900	168100	161500
29	158800	157400	158600	158200	158200	161300	160100	160300	179400	174700	167800	161400
30	159800	157300	158400	158100	---	161300	160500	160000	179400	174600	167700	161300
31	159800	---	158400	158000	---	161200	---	159900	---	174400	167500	---
MAX	162400	159600	159500	158900	158400	161500	161300	161100	201400	179400	174100	167300
MIN	158800	157300	156800	157700	157200	157800	160100	159600	159600	174400	167500	161300
(+)	519.62	519.23	519.41	519.35	519.38	519.83	519.73	519.64	522.33	521.66	520.72	519.85
(@)	-2800	-2500	+1100	-400	+200	+3000	-700	-600	+19500	-5200	-6900	-6200

CAL YR 1999 MAX 181600 MIN 156800 (@) -19200
WTR YR XXXX MAX 201400 MIN 156800 (@) -1300

(+) 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 Sep 1985.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Oct 21, 1960, non-recording 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 by 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. Conservation pool storage is 22,840 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.--The capacity table was provided by the Dallas Power and Light Co. and is based on a survey made in 1963.

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, 24,740 acre-ft, Jun 9, elevation, 457.66 ft; minimum contents, 17,470 acre-ft, Sep 23, elevation, 454.81 ft.

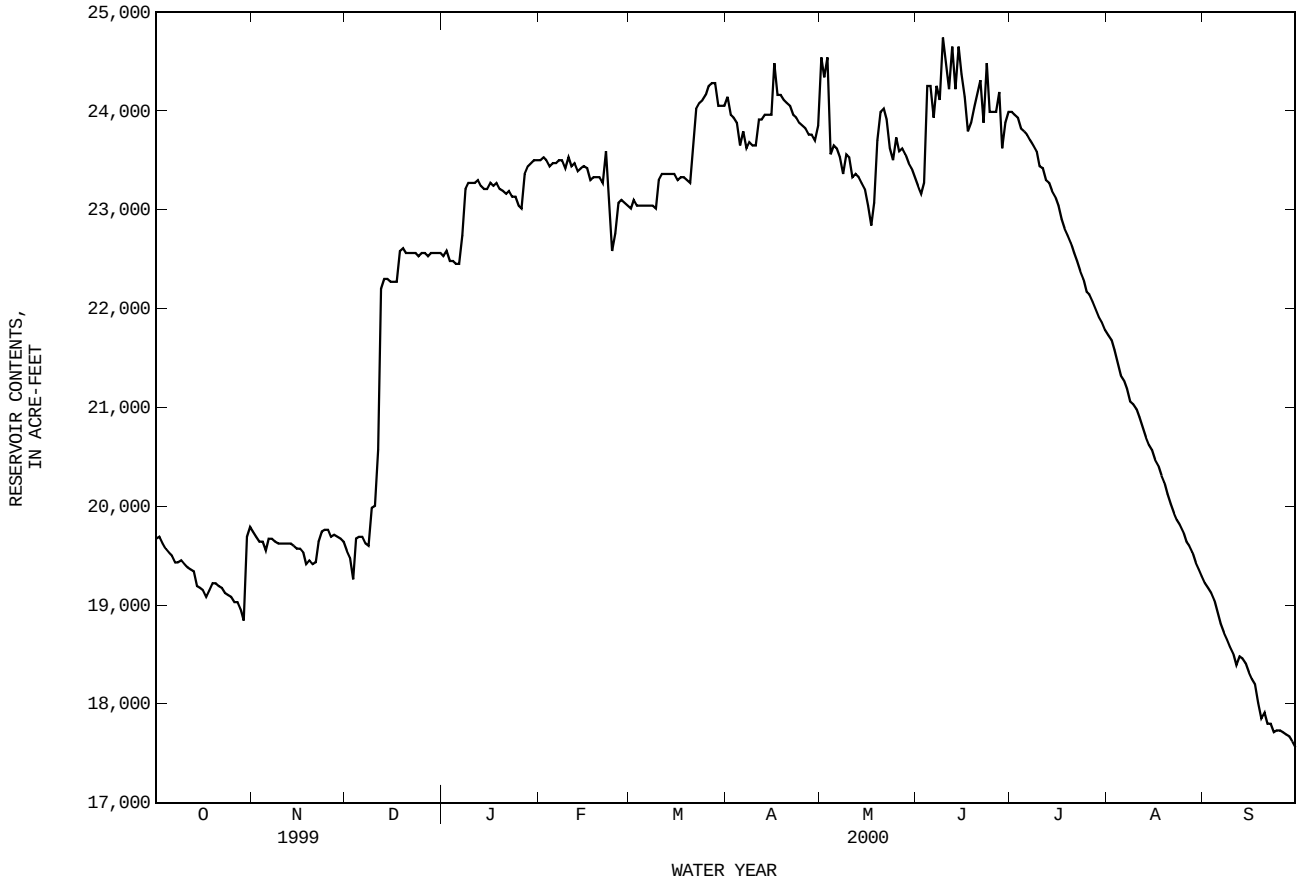
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19670	19740	19550	22530	23500	23010	24140	24540	23240	23990	21730	19220
2	19690	19690	19480	22580	23530	23100	23960	24340	23160	23960	21680	19170
3	19620	19640	19260	22480	23500	23040	23930	24540	23270	23930	21580	19120
4	19570	19640	19670	22480	23440	23040	23880	23560	24250	23820	21450	19050
5	19530	19550	19690	22450	23470	23040	23650	23650	24250	23790	21320	18930
6	19500	19670	19690	22450	23470	23040	23790	23620	23930	23760	21270	18810
7	19430	19670	19620	22740	23500	23040	23620	23530	24250	23700	21190	18720
8	19430	19640	19600	23210	23500	23040	23680	23360	24110	23650	21060	18650
9	19450	19620	19980	23270	23420	23010	23650	23560	24740	23590	21030	18580
10	19410	19620	20000	23270	23530	23300	23650	23530	24450	23440	20980	18510
11	19380	19620	20570	23270	23440	23360	23910	23330	24220	23420	20900	18390
12	19360	19620	22200	23300	23470	23360	23910	23360	24650	23300	20800	18480
13	19340	19620	22300	23240	23390	23360	23960	23330	24220	23270	20700	18460
14	19190	19600	22300	23210	23420	23360	23960	23270	24650	23190	20620	18410
15	19170	19570	22270	23210	23440	23360	23960	23210	24370	23130	20570	18320
16	19150	19570	22270	23270	23420	23300	24480	23040	24140	23040	20470	18250
17	19080	19530	22270	23240	23300	23330	24160	22840	23790	22900	20410	18200
18	19150	19410	22580	23270	23330	23330	24160	23070	23880	22810	20310	18010
19	19220	19450	22610	23210	23330	23300	24110	23700	24020	22740	20240	17850
20	19220	19410	22560	23190	23330	23270	24080	23990	24160	22660	20120	17910
21	19190	19430	22560	23160	23270	23700	24050	24020	24310	22560	20020	17800
22	19170	19640	22560	23190	23590	24020	23960	23910	23880	22480	19930	17800
23	19120	19740	22560	23130	23130	24080	23930	23620	24480	22380	19860	17710
24	19100	19760	22530	23130	22580	24110	23880	23500	23990	22300	19810	17730
25	19080	19760	22560	23040	22760	24160	23850	23730	23990	22170	19740	17730
26	19030	19690	22560	23010	23070	24250	23820	23590	23990	22140	19640	17710
27	19030	19710	22530	23360	23100	24280	23760	23620	24190	22070	19600	17690
28	18960	19690	22560	23440	23070	24280	23760	23560	23620	21990	19530	17670
29	18840	19670	22560	23470	23040	24050	23700	23470	23880	21910	19430	17620
30	19690	19640	22560	23500	---	24050	23850	23420	23990	21860	19360	17560
31	19790	---	22560	23500	---	24050	---	23330	---	21780	19290	---
MAX	19790	19760	22610	23500	23590	24280	24480	24540	24740	23990	21730	19220
MIN	18840	19410	19260	22450	22580	23010	23620	22840	23160	21780	19290	17560
(+)	455.80	455.74	456.89	457.23	457.07	457.42	457.35	457.17	457.40	456.59	455.59	454.85
(@)	0	-150	+2920	+940	-460	+1010	-200	-520	+660	-2210	-2490	-1730

CAL YR 1999 MAX 24910 MIN 18840 (@) -400
WTR YR 2000 MAX 24740 MIN 17560 (@) -2230

(+) 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 Co. 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 sea level. Prior to Dec 19, 1984, at datum 3.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Since installation of gage in Oct 1960, at least 10% of contributing drainage area has been regulated by Mountain Creek Lake (station 08050050, conservation pool storage 22,840 acre-ft), 1.5 mi upstream. No known diversions.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	1.8	.63	.72	1.3	2.4	5.5	119	.34	1.8	1.5	.60
2	4.5	1.8	.55	.93	1.2	1.7	153	217	.29	1.6	1.3	.60
3	3.9	1.9	e.58	1.9	1.2	2.9	10	574	.71	1.6	1.4	.70
4	3.6	1.5	e2.2	1.7	1.1	2.4	5.3	941	2710	1.6	1.4	.72
5	3.8	1.4	1.7	.79	.97	2.0	6.7	52	1340	1.4	1.3	.69
6	3.3	1.4	1.3	.78	.95	1.7	13	43	325	1.0	1.2	2.2
7	2.9	1.4	1.3	1.5	1.0	1.7	7.1	32	537	.94	1.1	3.5
8	1.7	1.4	1.1	27	.93	1.7	3.4	25	830	.92	1.0	2.9
9	1.4	1.3	13	5.8	1.1	1.4	3.7	18	901	.89	1.1	2.4
10	1.3	1.3	4.2	2.8	1.7	5.7	5.5	12	1560	1.4	.90	2.1
11	1.2	1.3	22	1.5	.97	6.7	7.4	18	2200	1.4	.77	2.1
12	.96	1.8	183	1.5	.72	3.4	280	19	776	14	.90	1.8
13	1.1	1.3	18	1.3	1.2	2.4	17	9.1	949	3.3	.89	1.5
14	1.1	.92	5.6	.87	1.2	1.9	9.4	7.0	763	3.5	.68	.86
15	.99	1.0	2.7	.97	.99	1.6	7.8	7.7	1670	3.0	.89	.88
16	.78	.98	1.8	1.2	1.1	1.6	124	9.5	1030	2.9	1.0	.69
17	.95	.89	1.4	1.0	1.0	1.8	265	18	1340	2.8	1.0	.74
18	1.5	.87	30	.90	2.9	1.8	14	16	1200	2.5	.90	.64
19	2.2	.71	6.3	.89	1.3	1.7	16	41	1010	2.4	.70	.62
20	1.7	.83	2.5	.66	1.2	2.2	15	68	1040	2.2	.62	.66
21	1.2	.81	2.0	.80	.98	13	5.9	e35	995	2.1	.64	.50
22	.84	1.5	1.5	1.1	3.5	34	6.7	e23	950	2.0	.65	.65
23	.86	12	1.2	.95	638	7.7	12	e14	385	2.0	.74	.65
24	1.0	2.4	1.1	.81	414	4.7	8.9	e8.0	622	2.0	.86	.99
25	.91	1.5	1.0	.78	6.1	3.0	4.6	e4.5	344	1.9	.74	1.3
26	.72	1.4	.86	.84	52	155	5.1	e3.3	376	1.8	.71	1.2
27	.64	e1.0	.78	5.6	8.0	8.2	6.1	e2.1	159	1.6	.73	1.0
28	.63	.85	.77	8.4	4.0	215	7.0	e1.5	562	1.7	.61	.67
29	.58	.79	.79	2.7	3.4	521	6.3	e1.0	3.5	1.6	.63	.60
30	31	.78	.81	1.9	---	14	9.0	e.48	1.7	1.5	.46	.41
31	11	---	.67	1.6	---	6.3	---	.36	---	1.5	.53	---
TOTAL	96.96	48.83	311.34	80.19	1154.01	1030.6	1040.4	2339.54	24580.54	70.85	27.85	34.87
MEAN	3.13	1.63	10.0	2.59	39.8	33.2	34.7	75.5	819	2.29	.90	1.16
MAX	31	12	183	27	638	521	280	941	2710	14	1.5	3.5
MIN	.58	.71	.55	.66	.72	1.4	3.4	.36	.29	.89	.46	.41
AC-FT	192	97	618	159	2290	2040	2060	4640	48760	141	55	69

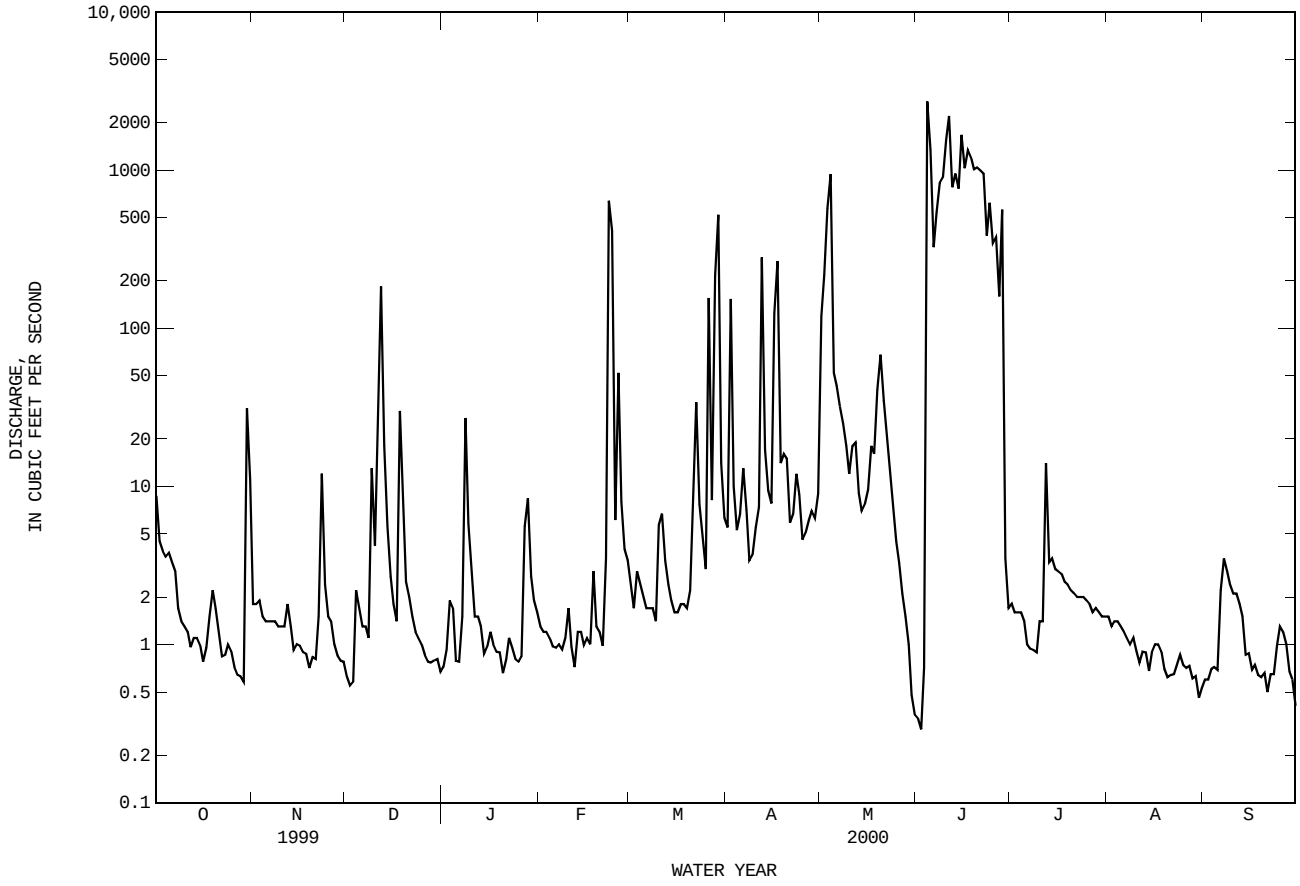
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

MEAN	70.8	67.6	102	101	147	207	210	291	153	31.5	8.89	18.8
MAX	785	1286	1102	1483	714	1104	1170	1941	1028	511	88.6	188
(WY)	1974	1992	1972	1992	1975	1977	1966	1969	1990	1989	1962	1973
MIN	.22	.30	.26	.11	.17	.30	.91	.68	.50	.21	.16	.36
(WY)	1989	1964	1976	1976	1964	1976	1987	1984	1971	1972	1972	1972

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	13283.72		30815.98			
ANNUAL MEAN	36.4		84.2		117	
HIGHEST ANNUAL MEAN					506	1992
LOWEST ANNUAL MEAN					4.39	1988
HIGHEST DAILY MEAN	1470	May 30	2710	Jun 4	24700	May 7 1969
LOWEST DAILY MEAN	.55	Dec 2	.29	Jun 2	.00	Jan 25 1964
ANNUAL SEVEN-DAY MINIMUM	.74	Nov 27	.59	Aug 28	.02	Dec 23 1983
INSTANTANEOUS PEAK FLOW			7240	Jun 4	38100	Apr 19 1976
INSTANTANEOUS PEAK STAGE			18.70	Jun 4	25.12	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	26350		61120		84910	
10 PERCENT EXCEEDS	41		154		78	
50 PERCENT EXCEEDS	2.5		1.7		1.3	
90 PERCENT EXCEEDS	1.0		.71		.32	

e Estimated

08050100 MOUNTAIN CREEK AT GRAND PRAIRIE, TX--Continued



08050400 ELM FORK TRINITY RIVER AT GAINESVILLE, TX

LOCATION.--Lat 33°37′27", long 97°09′22", Cooke County, Hydrologic Unit 12030103, on downstream right bank at end of bridge on Farm Road 51, 31 ft downstream from centerline of road, 0.6 mi west of Cooke County courthouse in Gainesville, 1.0 mi upstream from Interstate Highway 35, and 1.2 mi downstream from Dozier Creek.

DRAINAGE AREA.--174 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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct 1981 reached a peak stage of 28.1 ft, from information furnished by an employee of the Gainesville Department of Public Works.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,100 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

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

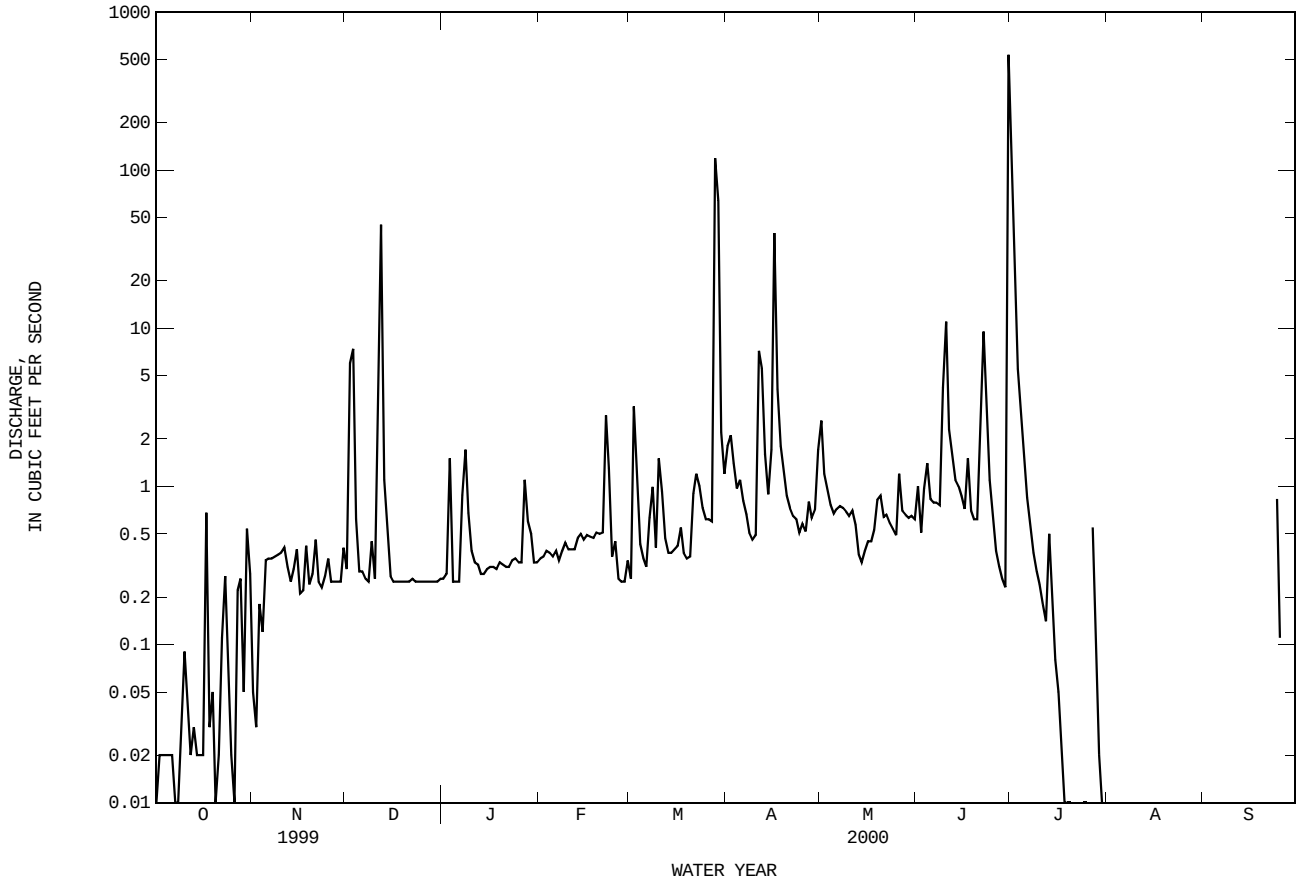
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.05	.30	.26	.35	.26	1.8	2.6	1.0	97	.00	.00
2	.02	.03	6.0	.28	.36	3.2	2.1	1.2	.51	21	.00	.00
3	.02	.18	7.4	1.5	.39	1.3	1.4	.95	.97	5.5	.00	.00
4	.02	.12	.62	.25	.38	.43	.97	.76	1.4	2.8	.00	.00
5	.02	.34	.29	.25	.36	.35	1.1	.67	.83	1.5	.00	.00
6	.02	.35	.29	.25	.39	.31	.81	.72	.79	.85	.00	.00
7	.01	.35	.26	.88	.34	.63	.66	.75	.79	.57	.00	.00
8	.01	.36	.25	1.7	.39	.99	.51	.73	.76	.38	.00	.00
9	.03	.37	.45	.68	.44	.41	.46	.69	4.2	.29	.00	.00
10	.09	.38	.26	.39	.40	1.5	.49	.65	11	.24	.00	.00
11	.04	.41	2.8	.33	.40	.93	7.2	.70	2.3	.18	.00	.00
12	.02	.31	45	.32	.40	.47	5.6	.57	1.6	.14	.00	.00
13	.03	.25	1.1	.28	.47	.38	1.6	.37	1.1	.50	.00	.00
14	.02	.30	.50	.28	.50	.38	.89	.33	1.0	.20	.00	.00
15	.02	.40	.27	.30	.46	.40	1.7	.39	.87	.08	.00	.00
16	.02	.21	.25	.31	.49	.42	40	.45	.72	.05	.00	.00
17	.68	.22	.25	.31	.48	.55	4.1	.45	1.5	.02	.00	.00
18	.03	.42	.25	.30	.47	.38	1.8	.53	.70	.01	.00	.00
19	.05	.24	.25	.33	.51	.35	1.2	.82	.62	.01	.00	.00
20	.01	.28	.25	.32	.50	.36	.87	.87	.62	.01	.00	.00
21	.02	.46	.25	.31	.51	.90	.73	.64	3.1	.00	.00	.00
22	.11	.25	.26	.31	2.8	1.2	.65	.66	9.5	.00	.00	.00
23	.27	.23	.25	.34	1.3	1.0	.62	.59	2.6	.00	.00	.00
24	.09	.27	.25	.35	.36	.73	.51	.54	1.1	.01	.00	.83
25	.02	.35	.25	.33	.45	.62	.58	.49	.64	.01	.00	.11
26	.01	.25	.25	.33	.26	.62	.52	1.2	.39	.00	.00	.00
27	.22	.25	.25	1.1	.25	.60	.80	.70	.31	.55	.00	.00
28	.26	.25	.25	.60	.25	119	.63	.66	.26	.11	.00	.00
29	.05	.25	.25	.50	.34	64	.71	.63	.23	.02	.00	.00
30	.54	.41	.25	.33	---	2.2	1.7	.65	534	.01	.00	.00
31	.28	---	.26	.33	---	1.2	---	.62	---	.00	.00	---
TOTAL	3.04	8.54	69.81	14.35	15.00	206.07	82.71	22.58	585.41	132.04	0.00	0.94
MEAN	.098	.28	2.25	.46	.52	6.65	2.76	.73	19.5	4.26	.000	.031
MAX	.68	.46	45	1.7	2.8	119	40	2.6	534	97	.00	.83
MIN	.01	.03	.25	.25	.25	.26	.46	.33	.23	.00	.00	.00
AC-FT	6.0	17	138	28	30	409	164	45	1160	262	.00	1.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

MEAN	56.8	63.7	130	79.2	145	176	150	304	142	15.7	3.98	33.2
MAX	310	353	743	316	647	565	1063	1359	659	91.1	13.2	123
(WY)	1994	1995	1992	1992	1997	1990	1990	1990	1989	1987	1996	1996
MIN	.098	.28	2.25	.46	.52	6.54	2.76	.73	2.61	.61	.000	.031
(WY)	2000	2000	2000	2000	2000	1986	2000	2000	1996	1998	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000	
ANNUAL TOTAL	7965.73		1140.49			
ANNUAL MEAN	21.8		3.12		108	
HIGHEST ANNUAL MEAN					277	1990
LOWEST ANNUAL MEAN					3.12	2000
HIGHEST DAILY MEAN	1030	May 10	534	Jun 30	12500	May 2 1990
LOWEST DAILY MEAN	.01	Sep 21	.00	Jul 21	.00	Aug 2 1988
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 29	.00	Jul 31	.00	Aug 2 1988
INSTANTANEOUS PEAK FLOW			2640	Jun 30	24000	May 16 1989
INSTANTANEOUS PEAK STAGE			9.94	Jun 30	25.33	May 16 1989
ANNUAL RUNOFF (AC-FT)	15800		2260		78310	
10 PERCENT EXCEEDS	34		1.5		208	
50 PERCENT EXCEEDS	1.5		.34		9.3	
90 PERCENT EXCEEDS	.06		.00		.65	

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 Sep 1993. Biochemical data: Apr 1993 to Sep 1993.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 640.00 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. No known regulation or diversions. No flow many days most years. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct 1981 reached a peak stage of 15.0 ft, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	.00	.00	.00	.99	1.8	.00	.00	.00	.00
2	.00	.00	e.00	.00	.00	4.5	7.8	2.6	.00	.00	.00	.00
3	.00	.00	e.00	.00	.00	14	5.5	4.2	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	1.6	.30	6.0	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	2.6	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.35	.00	.68	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	51	.00	.00	7.8	.00	.00	.00
11	.00	.00	16	.00	.00	34	16	.00	57	.00	.00	.00
12	.00	.00	52	.00	.00	16	58	.00	5.4	.00	.00	.00
13	.00	.00	35	.00	.00	7.8	28	.00	.50	.00	.00	.00
14	.00	.00	20	.00	.00	5.4	15	.00	.00	.00	.00	.00
15	.00	.00	10	.00	.00	1.6	8.3	.00	.00	.00	.00	.00
16	.00	.00	.18	.00	.00	.06	42	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.04	24	.00	.06	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	13	4.0	4.1	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	6.9	4.7	.11	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	3.1	7.0	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.32	.48	.05	.01	.00	.00	.00
22	.00	.00	.00	.00	1.6	.11	.00	.00	35	.00	.00	.00
23	.00	.00	.00	.00	.58	.02	.00	.00	3.7	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.01
25	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
26	.00	e.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	e.01	.00	3.1	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	e.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00
29	.00	e.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
30	.00	e.00	.00	.00	---	.00	.22	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.08	133.18	3.10	2.19	137.47	229.61	35.33	113.88	0.00	0.00	0.01
MEAN	.000	.003	4.30	.10	.076	4.43	7.65	1.14	3.80	.000	.000	.000
MAX	.00	.07	52	3.1	1.6	51	58	7.0	57	.00	.00	.01
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.2	264	6.1	4.3	273	455	70	226	.00	.00	.02
CFSM	.00	.00	.11	.00	.00	.11	.20	.03	.10	.00	.00	.00
IN.	.00	.00	.13	.00	.00	.13	.22	.03	.11	.00	.00	.00

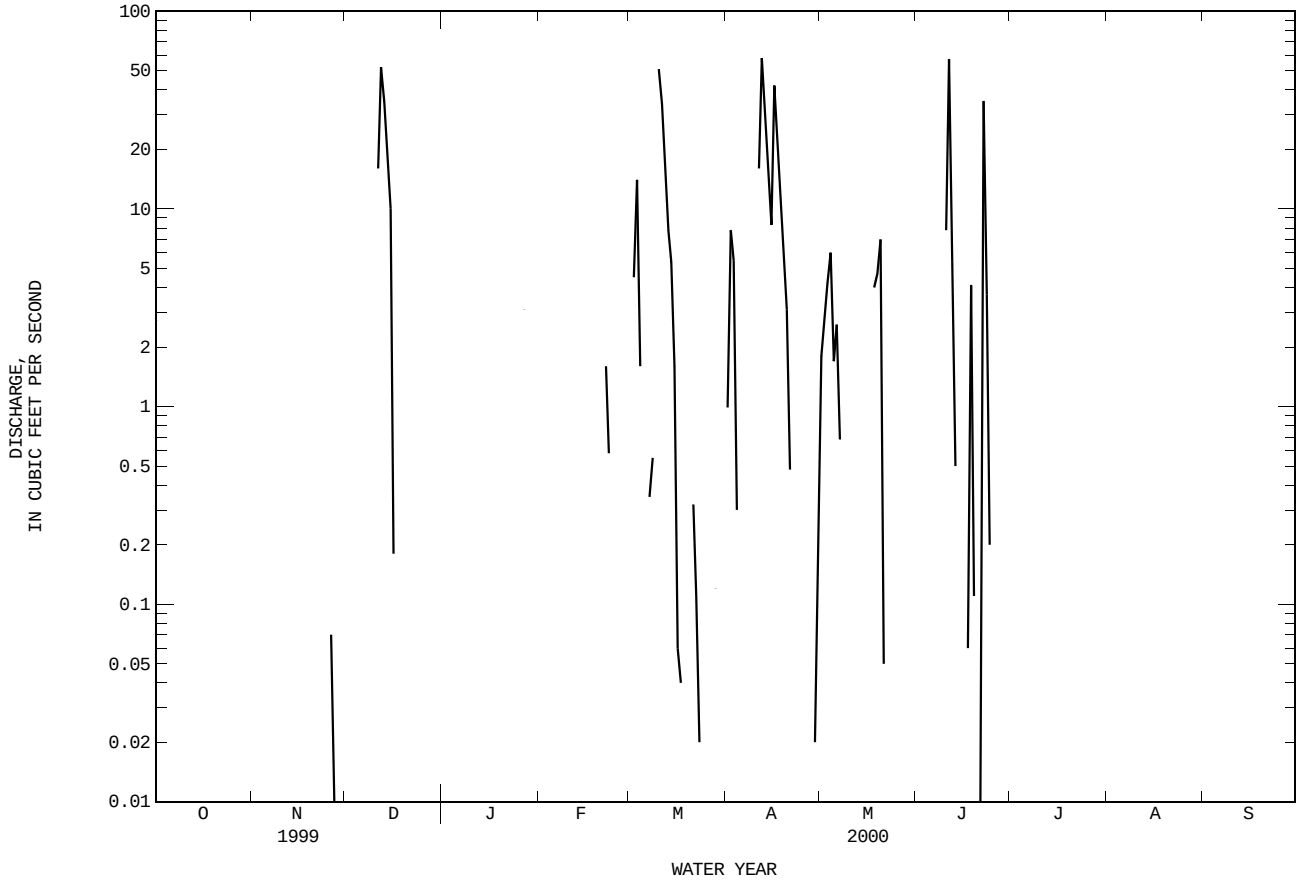
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

MEAN	22.9	15.2	40.5	19.0	29.7	35.8	42.3	59.5	29.9	23.5	1.09	6.35
MAX	135	66.3	326	73.1	95.3	107	259	168	193	293	6.76	32.0
(WY)	1992	1997	1992	1992	1993	1998	1990	1989	1989	1994	1996	1992
MIN	.000	.000	.000	.10	.000	.67	.000	.059	.000	.000	.000	.000
(WY)	1988	1990	1999	2000	1999	1999	1999	1996	1996	1988	1986	1995

08050800 TIMBER CREEK NEAR COLLINSVILLE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000	
ANNUAL TOTAL	779.40		654.85			
ANNUAL MEAN	2.14		1.79		27.2	
HIGHEST ANNUAL MEAN					72.7	1992
LOWEST ANNUAL MEAN					1.77	1999
HIGHEST DAILY MEAN	253	May 10	58	Apr 12	5410	Jul 11 1994
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1985
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1985
INSTANTANEOUS PEAK FLOW			137	Jun 11	13300	Jul 10 1994
INSTANTANEOUS PEAK STAGE			9.37	Jun 11	14.94	Jul 10 1994
ANNUAL RUNOFF (AC-FT)	1550		1300		19680	
ANNUAL RUNOFF (CFSM)	.055		.046		.70	
ANNUAL RUNOFF (INCHES)	.75		.63		9.51	
10 PERCENT EXCEEDS	1.1		2.8		24	
50 PERCENT EXCEEDS	.00		.00		1.3	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



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, 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 Sep 1995. Biochemical data: Oct 1992 to Sep 1995.

GAGE.--Water-stage recorder. Datum of gage is 621.08 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversion. No flow many days most years. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

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

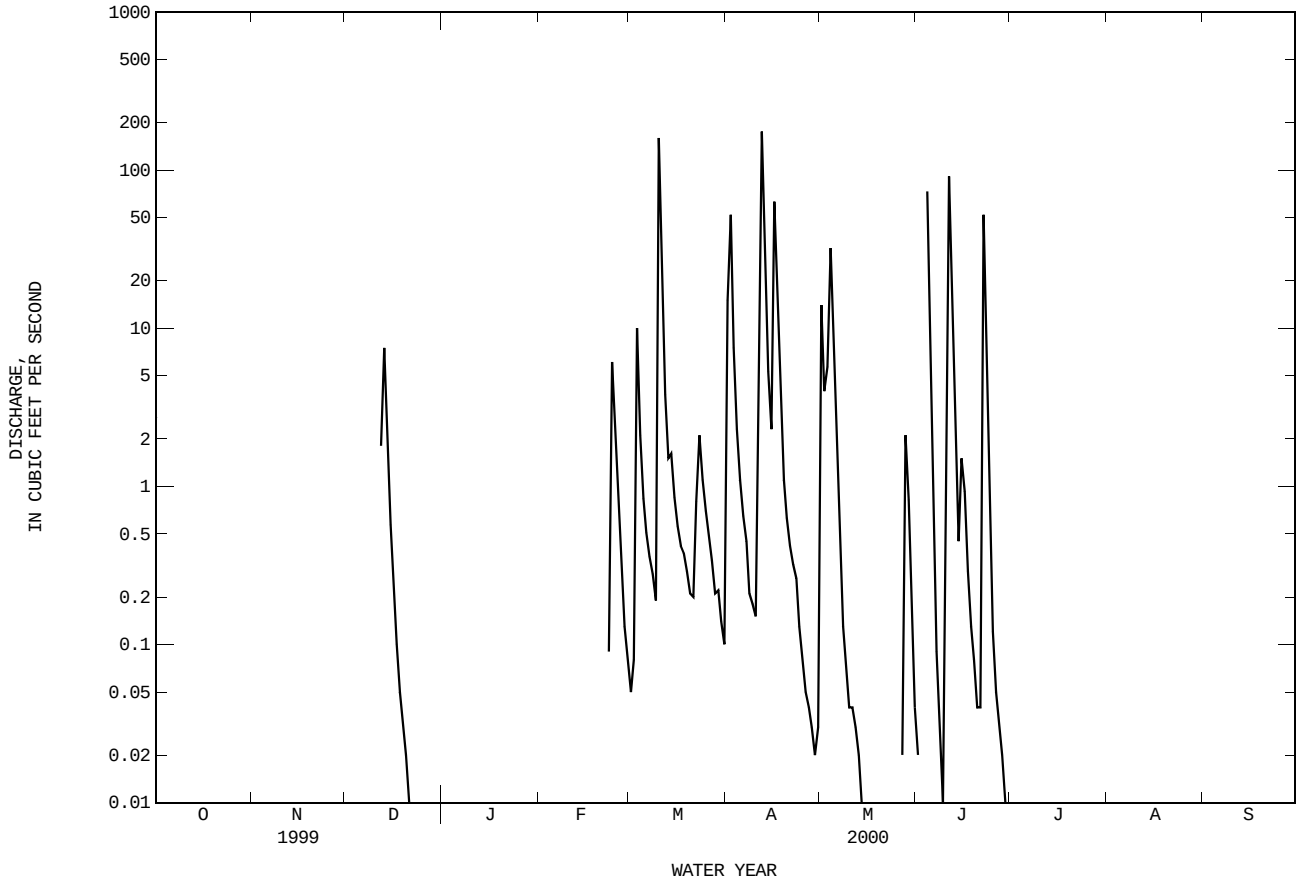
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.05	15	14	.02	.00	.00	.00
2	.00	.00	.00	.00	.00	.08	52	4.0	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	10	7.5	5.7	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	2.1	2.3	32	73	.00	.00	.00
5	.00	.00	.00	.00	.00	.84	1.1	3.1	11	.00	.00	.00
6	.00	.00	.00	.00	.00	.51	.65	.98	.62	.00	.00	.00
7	.00	.00	.00	.00	.00	.36	.45	.37	.09	.00	.00	.00
8	.00	.00	.00	.00	.00	.28	.21	.13	.03	.00	.00	.00
9	.00	.00	.00	.00	.00	.19	.18	.07	.01	.00	.00	.00
10	.00	.00	.00	.00	.00	159	.15	.04	12	.00	.00	.00
11	.00	.00	.00	.00	.00	37	1.8	.04	91	.00	.00	.00
12	.00	.00	1.8	.00	.00	3.8	175	.03	8.7	.00	.00	.00
13	.00	.00	7.5	.00	.00	1.5	25	.02	1.9	.00	.00	.00
14	.00	.00	2.0	.00	.00	1.6	5.3	.01	.45	.00	.00	.00
15	.00	.00	.57	.00	.00	.85	2.3	.00	1.5	.00	.00	.00
16	.00	.00	.27	.00	.00	.56	63	.00	.93	.00	.00	.00
17	.00	.00	.10	.00	.00	.42	10	.00	.29	.00	.00	.00
18	.00	.00	.05	.00	.00	.38	2.7	.00	.13	.00	.00	.00
19	.00	.00	.03	.00	.00	.29	1.1	.00	.08	.00	.00	.00
20	.00	.00	.02	.00	.00	.21	.63	.00	.04	.00	.00	.00
21	.00	.00	.01	.00	.00	.20	.42	.00	.04	.00	.00	.00
22	.00	.00	.00	.00	.00	.80	.32	.00	52	.00	.00	.00
23	.00	.00	.00	.00	.09	2.1	.26	.00	3.7	.00	.00	.00
24	.00	.00	.00	.00	6.1	1.1	.13	.00	.48	.00	.00	.00
25	.00	.00	.00	.00	2.0	.70	.08	.00	.12	.00	.00	.00
26	.00	.00	.00	.00	.80	.50	.05	.00	.05	.00	.00	.00
27	.00	.00	.00	.00	.29	.34	.04	.02	.03	.00	.00	.00
28	.00	.00	.00	.00	.13	.21	.03	2.1	.02	.00	.00	.00
29	.00	.00	.00	.00	.08	.22	.02	.82	.01	.00	.00	.00
30	.00	.00	.00	.00	---	.14	.03	.13	.00	.00	.00	.00
31	.00	---	.00	.00	---	.10	---	.04	---	.00	.00	---
TOTAL	0.00	0.00	12.35	0.00	9.49	226.43	367.75	63.60	258.24	0.00	0.00	0.00
MEAN	.000	.000	.40	.000	.33	7.30	12.3	2.05	8.61	.000	.000	.000
MAX	.00	.00	7.5	.00	6.1	159	175	32	91	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.05	.02	.00	.00	.00	.00	.00
AC-FT	.00	.00	24	.00	19	449	729	126	512	.00	.00	.00
CFSM	.00	.00	.01	.00	.01	.25	.42	.07	.29	.00	.00	.00
IN.	.00	.00	.02	.00	.01	.29	.47	.08	.33	.00	.00	.00

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

MEAN	19.6	40.7	23.2	17.8	24.6	28.5	23.3	23.5	6.92	4.59	.77	2.35
MAX	107	204	66.0	108	116	81.6	60.5	86.5	28.3	36.7	4.72	9.54
(WY)	1994	1997	1998	1998	1997	1998	1997	1995	1993	1994	1994	1994
MIN	.000	.000	.40	.000	.000	1.25	.15	.000	.000	.000	.000	.000
(WY)	1993	1996	2000	2000	1996	1999	1998	1996	1996	1993	1993	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	2051.32		937.86			
ANNUAL MEAN	5.62		2.56		17.9	
HIGHEST ANNUAL MEAN					38.3	1997
LOWEST ANNUAL MEAN					1.88	1996
HIGHEST DAILY MEAN	847	Apr 3	175	Apr 12	2580	Oct 19 1993
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1992
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 16	.00	Oct 1	.00	Oct 1 1992
INSTANTANEOUS PEAK FLOW			521	Mar 10	7640	Oct 19 1993
INSTANTANEOUS PEAK STAGE			11.11	Mar 10	23.32	Oct 19 1993
ANNUAL RUNOFF (AC-FT)	4070		1860		12990	
ANNUAL RUNOFF (CFSM)	.19		.088		.61	
ANNUAL RUNOFF (INCHES)	2.61		1.19		8.34	
10 PERCENT EXCEEDS	2.1		1.8		8.4	
50 PERCENT EXCEEDS	.00		.00		.02	
90 PERCENT EXCEEDS	.00		.00		.00	

08050840 RANGE CREEK NEAR COLLINSVILLE, TX--Continued



08051100 RAY ROBERTS LAKE NEAR PILOT POINT, TX

LOCATION.--Lat 32°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.--Jul 1987 to current year.
Water-quality records.--Chemical data: Feb 1989 to Sep 1998.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--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 Sep 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 Jun 30, 1987. The lake was built for water supply, flood control, and recreation purposes. Conservation pool storage is 799,600 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.--Record of contents provided by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,219,000 acre-ft, May 3, 1990, elevation, 644.48 ft; minimum contents after initial filling, 415,200 acre-ft, Sep 30, 2000, elevation, 615.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,162,000 acre-ft, Jun 26, elevation, 643.05 ft; minimum contents, 415,300 acre-ft, Sep 30, elevation, 615.89 ft.

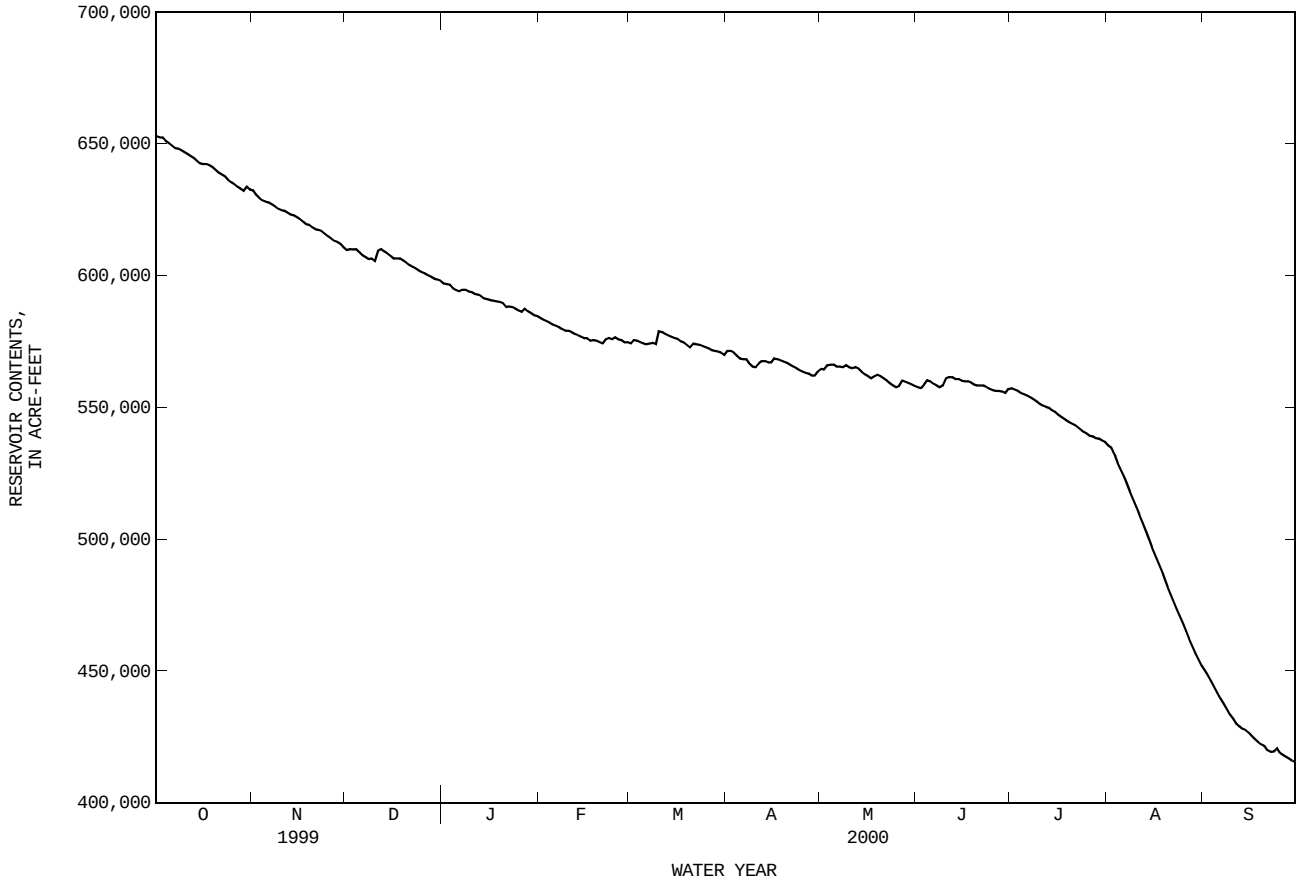
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	652900	632400	609600	597000	583900	574200	571400	564600	557600	557100	535500	450100
2	652400	630700	610100	596800	583200	575500	571400	564400	557400	556700	534600	448100
3	652400	629400	609800	596500	582700	575300	570700	565900	558500	556200	532200	445900
4	651100	628500	610100	595100	582000	574600	569600	566200	560300	555300	529000	443900
5	650300	628000	608900	594400	581300	574200	568400	566200	559800	554900	526400	441600
6	649300	627700	607700	593900	580900	573900	568200	565500	558900	554400	523800	439400
7	648300	627000	607000	594600	580400	574200	568200	565500	558300	553800	521000	437400
8	648100	626300	606200	594600	579700	574400	566600	565300	557600	553100	517800	435500
9	647600	625300	606500	593900	579000	573900	565500	565900	558300	552200	514900	433500
10	646800	624800	605500	593700	579000	578800	565300	565300	561000	551300	512100	431900
11	646100	624600	609300	593000	578500	578500	566600	564800	561400	550600	509200	429900
12	645300	623800	610100	592800	577900	577900	567500	565300	561400	550200	506300	428900
13	644600	623100	609100	592300	577400	577200	567500	564600	560700	549800	503200	428000
14	643600	622900	608400	591400	576700	576700	567100	563400	560700	548900	500100	427500
15	642600	622100	607400	591100	576200	576200	567100	562500	560100	548200	497000	426600
16	642300	621400	606500	590600	576200	576000	568400	561900	559800	547100	494100	425200
17	642300	620400	606500	590400	575300	575100	568200	561000	559800	546200	491200	424100
18	641800	619500	606500	590200	575500	574600	567800	561600	559400	545500	488400	423100
19	641100	619200	605800	589900	575300	573700	567300	562300	558700	544700	485100	422000
20	640100	618200	605000	589500	574600	572800	566800	561900	558300	544000	482000	421500
21	639100	617500	604100	588100	574200	574200	566200	561000	558300	543300	479000	419900
22	638300	617300	603400	588300	575800	573900	565500	560300	558300	542700	476100	419200
23	637600	616800	602700	588100	576200	573700	564800	559200	557600	541800	473400	419400
24	636300	615800	602000	587400	575800	573200	564100	558300	556900	540700	470600	420600
25	635400	614900	601200	586700	576500	572800	563400	557600	556500	540000	467900	418900
26	634600	614100	600800	586200	575800	572300	563000	558000	556200	539200	464900	418000
27	633600	613200	600100	587400	575500	571600	562800	560100	556200	539000	462000	417300
28	632900	612700	599600	586400	574600	571400	562100	559600	556000	538300	459200	416600
29	632200	612000	598900	585700	574600	571200	562100	559200	555300	538100	456600	415900
30	633600	610800	598400	585000	---	570700	563700	558700	556900	537400	454200	415200
31	632600	---	597900	584600	---	569800	---	558000	---	536800	452000	---
MAX	652900	632400	610100	597000	583900	578800	571400	566200	561400	557100	535500	450100
MIN	632200	610800	597900	584600	574200	569800	562100	557600	555300	536800	452000	415200
(+)	626.28	625.39	624.85	624.28	623.85	623.64	623.37	623.12	623.07	622.16	617.95	615.89
(@)	-21500	-21800	-12900	-13300	-10000	-4800	-6100	-5700	-1100	-20100	-84800	-36800

CAL YR 1999 MAX 729500 MIN 597900 (@) -118900
WTR YR 2000 MAX 652900 MIN 415200 (@) -238900

(+) 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 Co. 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 sea level. Prior to Apr 18, 1975, water-stage recorder at datum 5.00 ft higher. Apr 18, 1975 to Jun 9, 1988, at site 950 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since 1980, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 51 floodwater-retarding structures with a combined detention capacity of 38,850 acre-ft. These structures control runoff from 149 mi^2 in the Clear Creek watershed. There are no known diversions above station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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, Sep 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 Co. Flood in May 1935 reached a stage of 34.0 ft, from information by Texas Department of Transportation. Both peaks now referenced to present site and datum.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.23	19	61	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	20	17	23	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	14	14	17	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	14	12	9.9	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	12	9.0	6.9	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	9.3	7.5	5.3	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	8.8	7.3	4.1	.00	.00	.00	.00
8	.00	.00	.00	.45	.00	18	5.8	4.5	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	15	5.3	2.8	.00	.01	.00	.00
10	.00	.00	.00	.00	.00	175	5.8	2.2	.89	.01	.00	.00
11	.00	.00	.00	.00	.00	46	8.4	1.9	.21	.01	.00	.00
12	.00	.00	8.7	.00	.00	12	18	1.4	.00	.01	.00	.00
13	.00	.00	.00	.00	.00	4.9	35	.83	.00	.01	.00	.00
14	.00	.00	.00	.00	.00	2.5	31	.30	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	1.9	21	.10	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	2.0	36	.04	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	2.3	15	.01	.02	.00	.00	.00
18	.00	.00	.54	.00	.00	2.7	9.1	.00	.03	.00	.00	.00
19	.00	.00	.00	.00	.00	2.4	5.1	.05	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	2.0	2.8	1.1	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	4.8	1.7	.03	.00	.00	.00	.00
22	.00	.00	.00	.00	1.8	4.9	1.1	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	27	11	.92	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	6.8	15	.87	.00	.92	.00	.00	.00
25	.00	.00	.00	.00	5.6	12	.94	.00	.41	.00	.00	.00
26	.00	.00	.00	.00	3.7	9.0	.69	.00	.00	.00	.00	.00
27	.00	.00	.00	.23	1.6	7.3	.83	.00	.78	.00	.00	.00
28	.00	.00	.00	.00	.78	6.8	.89	.00	.17	.00	.00	.00
29	.00	.00	.00	.00	.38	6.6	1.2	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	6.7	8.9	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	11	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	9.24	0.68	47.66	460.13	302.14	142.46	3.43	0.06	0.00	0.00
MEAN	.000	.000	.30	.022	1.64	14.8	10.1	4.60	.11	.002	.000	.000
MAX	.00	.00	8.7	.45	27	175	36	61	.92	.01	.00	.00
MIN	.00	.00	.00	.00	.00	.23	.69	.00	.00	.00	.00	.00
AC-FT	.00	.00	18	1.3	95	913	599	283	6.8	.1	.00	.00

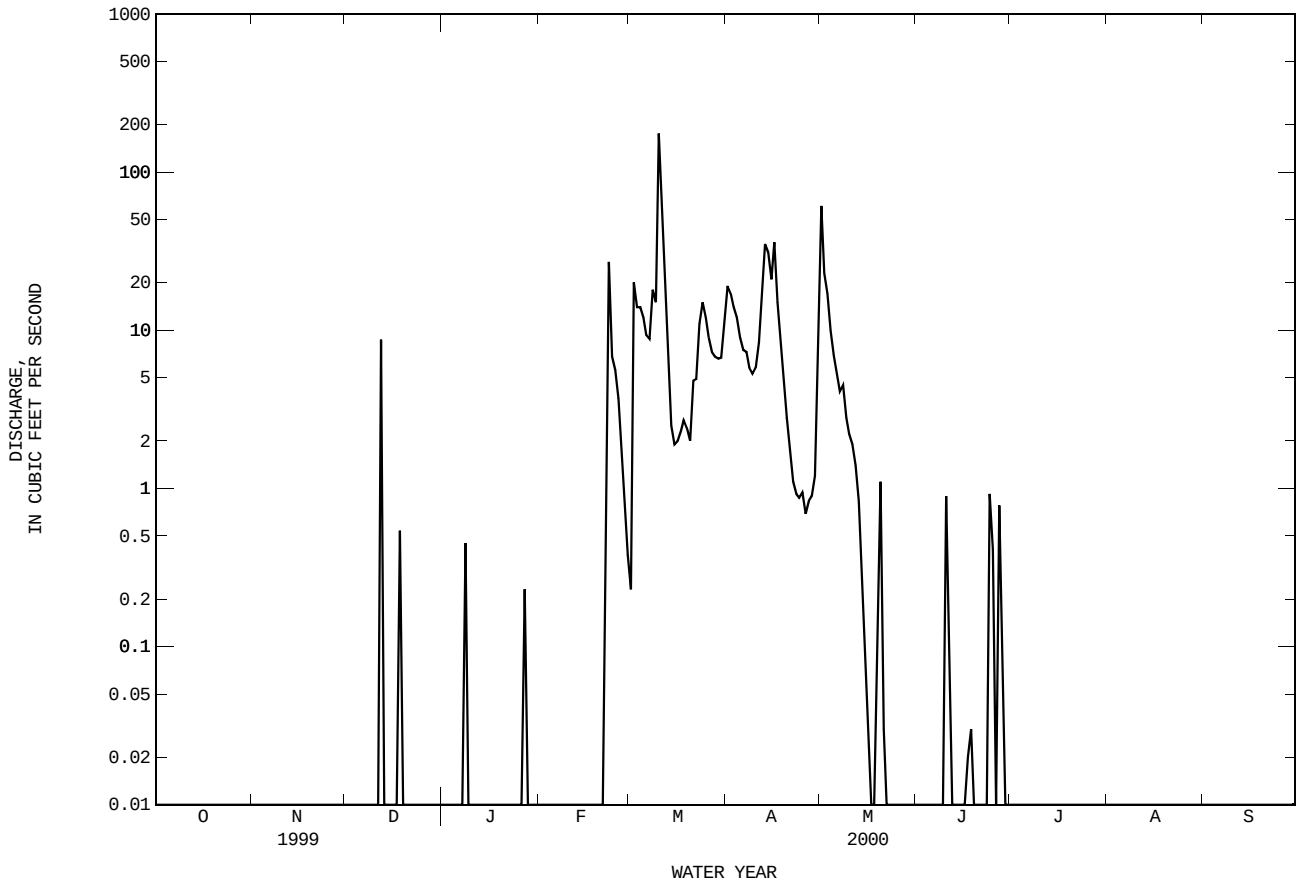
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000z, BY WATER YEAR (WY)

MEAN	197	87.1	130	78.7	168	208	190	362	230	30.5	8.81	27.7
MAX	2739	526	1157	421	893	719	1811	1764	1307	174	68.5	155
(WY)	1982	1995	1992	1992	1997	1990	1990	1990	1989	1982	1995	1986
MIN	.000	.000	.30	.022	1.64	14.8	10.1	4.60	.11	.002	.000	.000
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1988	1983

08051500 CLEAR CREEK NEAR SANGER, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000z	
ANNUAL TOTAL	6716.93		965.80			
ANNUAL MEAN	18.4		2.64		143	
HIGHEST ANNUAL MEAN					476	1982
LOWEST ANNUAL MEAN					2.64	2000
HIGHEST DAILY MEAN	697	May 10	175	Mar 10	39700	Oct 13 1981
LOWEST DAILY MEAN	.00	Jul 13	.00	Oct 1	.00	Oct 12 1980
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 13	.00	Oct 1	.00	Aug 2 1981
INSTANTANEOUS PEAK FLOW			778	Mar 10	104000	Oct 13 1981
INSTANTANEOUS PEAK STAGE			9.65	Mar 10	35.70	Oct 13 1981
ANNUAL RUNOFF (AC-FT)	13320		1920		103600	
10 PERCENT EXCEEDS	24		7.8		246	
50 PERCENT EXCEEDS	3.0		.00		22	
90 PERCENT EXCEEDS	.00		.00		.00	

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 Sep 1996, Oct 1997 to current year.
PESTICIDE DATA: May 1997 to current year.
SEDIMENT DATA: Feb 1966 to May 1977, Oct 1997 to current year.

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, Oct 12, 1976; minimum daily, 182 microsiemens, Jul 29, 1973.
WATER TEMPERATURE: Maximum daily, 39.0°C, Jun 8, 1969; minimum daily, 0.0°C, Jan 9, 1970.
SEDIMENT CONCENTRATION: Maximum daily mean, 7,370 mg/L, May 12, 1972; minimum, 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 1999 TO SEPTEMBER 2000

DATE	TIME	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)
MAR												
07...	1015	658	8.1	17.0	6.6	70	230	26	67.2	15.9	43.5	1
APR												
13...	0800	615	8.0	14.3	7.2	71	220	9	63.5	14.5	38.1	1
MAY												
11...	0810	542	7.8	23.3	4.8	58	220	14	66.4	12.4	30.4	.9

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	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											
07...	2.7	210	70.6	41.7	.2	5.7	390	372	<.010	<.050	<.020
APR											
13...	2.9	210	57.9	39.0	.2	4.1	357	346	<.010	<.050	<.020
MAY											
11...	3.7	200	38.7	29.5	.2	5.5	319	308	<.010	<.050	<.020

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)
MAR											
07...	.25	.32	.028	.007	<.010	115	100	E10	19	<.007	<.002
APR											
13...	.24	.37	.038	.010	<.010	14	100	<10	12	<.007	<.002
MAY											
11...	.35	.50	.057	.013	<.010	48	83	<10	35	<.007	<.002

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)
MAR											
07...	<.005	<.018	E.006	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.005
APR											
13...	.006	E.007	E.010	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.007
MAY											
11...	E.004	E.002	E.025	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.004

08051500 CLEAR CREEK NEAR SANGER, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAR											
07...	<.005	<.004	<.002	.024	<.002	<.004	<.003	<.002	<.004	<.002	<.007
APR											
13...	<.005	<.004	.005	.034	.012	<.004	<.003	<.002	<.004	<.002	<.007
MAY											
11...	<.005	<.004	E.003	.268	.069	<.004	<.003	<.002	<.004	<.002	<.007

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
MAR											
07...	<.002	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	<.003
APR											
13...	<.002	<.006	<.002	<.004	E.009	<.004	<.003	<.002	<.003	<.013	<.003
MAY											
11...	<.002	<.006	<.007	<.004	E.008	<.004	<.003	<.002	<.003	<.013	<.003

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
MAR											
07...	<.017	<.001	<.004	<.003	<.002	<.002	<.004	<.003	<.013	<.001	<.005
APR											
13...	<.017	<.001	<.004	E.005	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAY											
11...	<.017	<.001	<.004	<.003	<.002	<.002	<.004	<.003	<.013	<.001	<.005

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.--Jun 1956 to Sep 1976, Oct 1979 to current year.
Water-quality records.--Chemical data: Feb 1966 to Sep 1975. Specific conductance: Dec 1966 to Sep 1975. Water temperature: Feb 1966 to Sep 1975. Sediment data: Feb 1966 to Sep 1975.

REVISED RECORDS.--WRD TX-70-l: 1969.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 534.76 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. There are several small diversions above station for irrigation. Since water year 1965, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 17 floodwater-retarding structures with a combined detention capacity of 10,460 acre-ft. These structures control runoff from 36.4 mi^2 above this station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--10 years (water years 1956-65), 40.6 ft^3/s (29,420 ac-ft/yr).

EXTREMES FOR PERIOD OF RECORD PRIOR TO REGULATION (WATER YEARS 1956-65).--Maximum discharge, 7,830 ft^3/s, Apr 26, 1957, gage height, 17.34 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1900, 18.2 ft in May 1941, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	6.8	12	1.3	.65	2.0	5.5	238	5.4	.83	.00	.00
2	.00	6.0	11	1.4	.54	7.2	60	77	4.3	1.0	.00	.00
3	.00	5.8	10	1.0	.39	55	18	30	1.9	.65	.00	.00
4	.00	5.9	11	.81	.30	6.5	4.0	345	174	.44	.00	.00
5	.00	6.1	12	1.2	.25	2.2	1.7	131	100	.30	.00	.00
6	.00	6.5	10	1.2	.27	1.5	1.4	52	51	.20	.00	.00
7	.00	6.6	9.9	1.3	.25	1.3	1.6	23	22	.18	.00	.00
8	.02	6.3	10	2.2	.28	1.2	1.4	13	12	.20	.00	.00
9	.10	7.2	12	2.2	.25	.42	1.0	9.2	7.9	.20	.00	.00
10	.10	7.3	13	2.4	.26	12	1.1	8.0	16	.13	.00	.00
11	.90	7.3	44	2.1	.21	34	1.6	7.0	174	.06	.00	.00
12	1.3	8.1	e57	1.6	.20	5.7	111	6.2	188	.02	.00	.00
13	2.0	8.4	12	1.4	.21	2.2	45	5.3	51	.01	.00	.00
14	2.5	8.7	5.1	1.2	.12	1.1	29	4.9	24	.01	.00	.00
15	2.8	8.8	2.0	1.3	.07	.71	18	3.9	14	.01	.00	.00
16	2.9	9.1	.94	1.6	.11	1.1	311	2.5	11	.00	.00	.00
17	3.7	9.3	.86	1.4	.18	1.1	115	1.2	10	.00	.00	.00
18	4.4	9.4	32	1.5	.29	1.2	40	1.6	8.6	.00	.00	.00
19	5.5	9.9	6.1	1.3	.29	1.7	15	2.5	7.4	.00	.00	.00
20	5.7	9.7	1.8	1.1	.26	1.9	7.6	3.6	7.1	.00	.00	.00
21	5.9	10	.85	.88	.22	2.2	4.6	4.8	5.9	.00	.00	.00
22	6.0	11	.55	.94	.38	5.5	3.8	3.9	7.7	.00	.00	.00
23	6.3	11	.31	.83	12	5.2	3.2	3.1	9.1	.00	.00	.00
24	5.9	12	1.0	.84	3.5	2.7	2.8	1.8	5.3	.00	.00	.01
25	4.9	12	1.2	.82	.62	2.0	2.6	1.1	2.0	.00	.00	.00
26	4.6	12	1.0	.84	.14	3.0	2.6	1.0	.83	.00	.00	.00
27	4.6	12	1.1	1.4	.01	3.8	2.2	5.5	.63	.00	.00	.00
28	4.7	12	1.1	3.6	.00	4.2	3.1	40	.49	.00	.00	.00
29	4.8	11	1.2	2.3	.12	4.8	6.3	21	.26	.00	.00	.00
30	5.6	11	1.3	1.2	---	4.5	6.6	9.7	.62	.00	.00	.00
31	6.8	---	1.3	.80	---	4.4	---	6.6	---	.00	.00	---
TOTAL	92.03	267.2	283.61	43.96	22.37	182.33	826.7	1063.4	922.43	4.24	0.00	0.01
MEAN	2.97	8.91	9.15	1.42	.77	5.88	27.6	34.3	30.7	.14	.000	.000
MAX	6.8	12	57	3.6	12	55	311	345	188	1.0	.00	.01
MIN	.00	5.8	.31	.80	.00	.42	1.0	1.0	.26	.00	.00	.00
AC-FT	183	530	563	87	44	362	1640	2110	1830	8.4	.00	.02

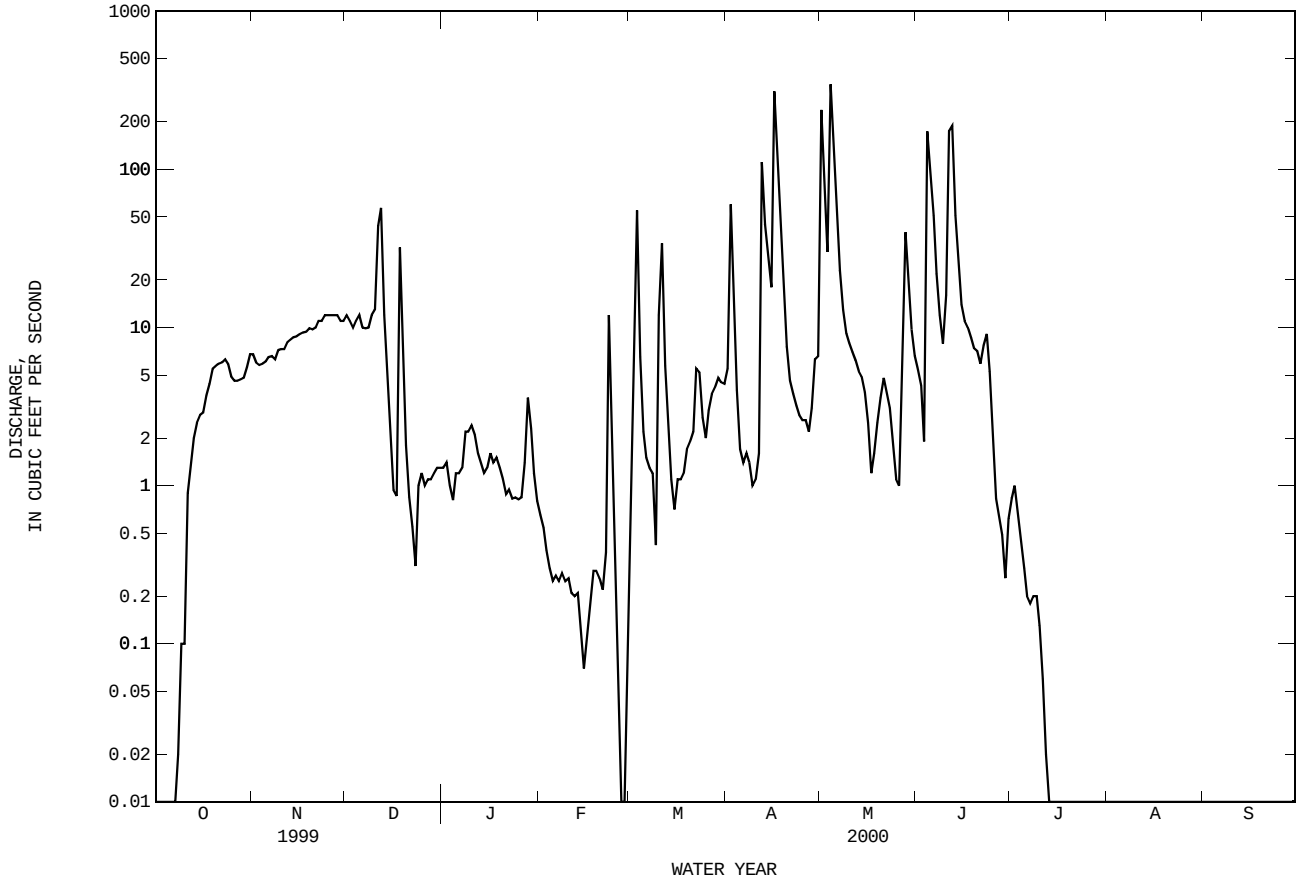
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000hz, BY WATER YEAR (WY)

MEAN	70.6	62.2	60.3	27.1	69.0	59.8	55.0	116	57.5	22.3	2.87	21.4
MAX	641	530	398	208	315	251	281	897	286	540	28.5	148
(WY)	1982	1997	1992	1998	1986	1990	1966	1982	1989	1994	1966	1973
MIN	.000	.000	.000	.009	.066	.052	.12	.000	.000	.000	.000	.000
(WY)	1976	1976	1976	1976	1976	1980	1971	1988	1972	1966	1967	1969

08052700 LITTLE ELM CREEK NEAR AUBREY, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000hz	
ANNUAL TOTAL	5293.63		3708.28			
ANNUAL MEAN	14.5		10.1		51.9	
HIGHEST ANNUAL MEAN					178	1982
LOWEST ANNUAL MEAN					3.89	1971
HIGHEST DAILY MEAN	542	May 30	345	May 4	11600	Jul 11 1994
LOWEST DAILY MEAN	.00	Feb 13	.00	Oct 2	.00	Oct 13 1965
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 18	.00	Jul 16	.00	Oct 13 1965
INSTANTANEOUS PEAK FLOW			568	Apr 16	36200	Jul 11 1994
INSTANTANEOUS PEAK STAGE			12.58	Apr 16	18.27	Jul 11 1994
ANNUAL RUNOFF (AC-FT)	10500		7360		37620	
10 PERCENT EXCEEDS	13		12		97	
50 PERCENT EXCEEDS	.63		1.4		.99	
90 PERCENT EXCEEDS	.00		.00		.00	

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



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 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 sea level. Prior to May 17, 1955, nonrecording gage at site 4,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--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 lake was built for flood control and water conservation. The city of Dallas obtains most of its municipal water supply from this lake. The capacity table is based on a survey made in 1965. 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 464,500 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	515.3
Lowest intakes to wet wells (invert)	481.0
Invert of three broome-type gates	448.0

COOPERATION.--Records furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, Sep 28, 1980, elevation, 498.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 360,100 acre-ft, May 9, elevation, 510.44 ft; minimum contents, 302,700 acre-ft, Aug 7, 8, elevation, 507.11 ft.

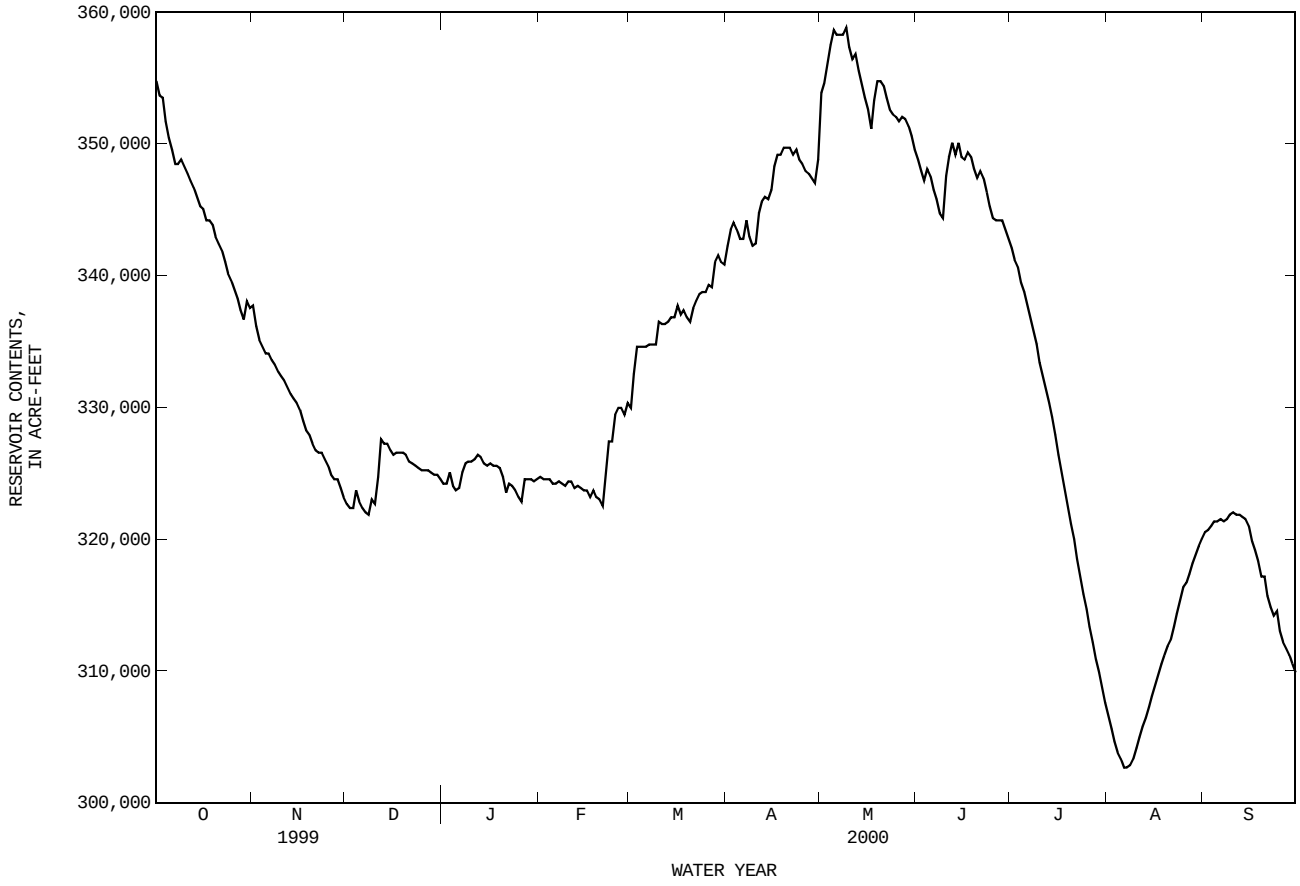
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354800	337700	322700	324200	324700	330000	342200	353800	348800	342100	306600	320500
2	353700	336100	322300	324200	324500	332500	343500	354600	347900	341200	305600	320700
3	353500	335100	322300	325000	324500	334600	344000	356000	347200	340700	304600	321000
4	351700	334600	323700	324000	324500	334600	343500	357500	348100	339400	303800	321300
5	350400	334100	322900	323700	324200	334600	342800	358600	347600	338800	303300	321300
6	349500	334100	322300	323900	324200	334600	342800	358300	346500	337900	302700	321500
7	348400	333600	322000	325000	324400	334800	344200	358300	345800	336800	302700	321300
8	348400	333200	321800	325700	324200	334800	343000	358300	344700	335800	302800	321500
9	348800	332700	323000	325900	324000	334800	342200	358800	344400	334800	303300	321800
10	348300	332400	322700	325900	324400	336500	342400	357300	347600	333400	304100	322000
11	347700	332000	324700	326100	324400	336300	344700	356400	349000	332400	305000	321800
12	347200	331500	327600	326400	323900	336300	345600	356800	350100	331300	305800	321800
13	346700	331000	327200	326200	324000	336500	346000	355500	349200	330300	306400	321700
14	346000	330700	327200	325700	323900	336800	345800	354600	350100	329300	307200	321500
15	345200	330300	326700	325600	323700	336800	346500	353500	349000	327900	308100	321000
16	345100	329800	326400	325700	323700	337700	348300	352600	348800	326400	308900	319800
17	344200	328900	326600	325600	323200	337000	349200	351100	349300	325000	309700	319200
18	344200	328300	326600	325600	323700	337400	349200	353300	349000	323900	310500	318300
19	343800	327900	326600	325400	323200	336800	349700	354800	348100	322500	311200	317200
20	343000	327200	326400	324700	323000	336500	349700	354800	347400	321200	311900	317200
21	342400	326700	325900	323500	322500	337500	349700	354400	347900	320000	312400	315700
22	341900	326600	325700	324200	325000	338100	349200	353500	347400	318500	313300	314800
23	341000	326600	325600	324000	327400	338600	349500	352600	346300	317200	314300	314200
24	340100	326100	325400	323700	327400	338800	348800	352200	345200	315800	315300	314500
25	339600	325600	325200	323200	329500	338800	348400	352000	344400	314700	316300	313000
26	338900	324900	325200	322900	330000	339300	347900	351700	344200	313300	316700	312200
27	338200	324500	325200	324500	330000	339100	347700	352000	344200	312200	317300	311700
28	337400	324500	325000	324500	329500	341000	347400	351900	344200	310900	318200	311200
29	336700	323900	324900	324500	330300	341500	347000	351300	343500	309900	318800	310500
30	338100	323200	324900	324400	---	341000	348800	350600	342800	308700	319500	309900
31	337500	---	324500	324500	---	340800	---	349500	---	307600	320000	---
MAX	354800	337700	327600	326400	330300	341500	349700	358800	350100	342100	320000	322000
MIN	336700	323200	321800	322900	322500	330000	342200	349500	342800	307600	302700	309900
(+)	509.18	508.35	508.42	508.42	508.77	509.37	509.83	509.87	509.49	507.41	508.16	507.55
(@)	-18500	-14300	+1300	0	+5800	+10500	+8000	+700	-6700	-35200	+12400	-10100

CAL YR 1999 MAX 481500 MIN 321800 (@) -137300
WTR YR 2000 MAX 358800 MIN 302700 (@) -46100

(+) 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 sea level (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 except those from Sep 2 to Sep 6, which are fair. Since Nov 1954, at least 10% of contributing drainage area has been regulated by Lewisville Lake (station 08052800, conservation pool storage 464,500 acre-ft) 1.9 mi upstream. Most of low flow is used by the city of Dallas for municipal supply see Elm Fork Trinity River near Carrolton (station 08055500). Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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, Sep 15, 1950, gage height, 30.75 ft; no flow Jun 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	383	303	292	200	166	237	373	465	350	442	504
2	467	427	286	249	206	196	221	186	486	338	480	460
3	484	420	263	238	220	170	204	168	459	338	524	478
4	478	420	258	237	236	144	211	152	408	367	539	485
5	449	391	251	238	237	145	230	135	272	391	538	506
6	412	351	250	226	229	169	222	102	262	427	520	575
7	378	347	260	233	220	178	205	101	294	438	494	551
8	388	350	271	262	221	149	216	100	361	427	479	467
9	398	351	278	228	222	169	224	111	358	424	510	425
10	359	365	239	216	231	207	225	197	376	412	546	401
11	370	383	238	204	240	281	311	365	332	397	548	505
12	396	407	370	203	241	252	293	260	270	415	576	571
13	395	409	267	201	241	240	195	222	259	452	542	367
14	395	402	297	195	230	231	235	262	333	513	563	333
15	409	384	296	201	224	211	232	329	334	570	562	388
16	433	384	306	226	221	201	265	400	280	521	531	446
17	422	402	306	226	206	198	214	395	270	489	561	429
18	383	415	311	236	192	205	214	400	269	481	573	417
19	354	458	318	265	181	205	211	439	230	469	586	377
20	407	441	304	281	175	206	185	219	238	464	591	325
21	410	407	289	274	175	241	184	233	295	499	596	408
22	415	375	278	257	168	236	223	290	298	535	569	503
23	418	362	291	244	264	206	247	290	312	490	518	515
24	398	337	292	243	109	204	307	270	416	449	531	422
25	378	335	285	253	108	205	346	342	376	462	531	332
26	378	340	286	262	136	209	306	362	315	476	555	329
27	398	340	268	263	91	204	307	362	314	473	556	312
28	427	338	228	223	98	223	281	323	286	489	549	329
29	429	346	240	210	120	241	277	277	268	491	521	367
30	452	331	295	202	---	230	260	320	323	451	561	386
31	394	---	341	202	---	230	---	401	---	427	558	---
TOTAL	12708	11401	8765	7290	5642	6352	7288	8386	9759	13925	16750	12913
MEAN	410	380	283	235	195	205	243	271	325	449	540	430
MAX	484	458	370	292	264	281	346	439	486	570	596	575
MIN	354	331	228	195	91	144	184	100	230	338	442	312
AC-FT	25210	22610	17390	14460	11190	12600	14460	16630	19360	27620	33220	25610

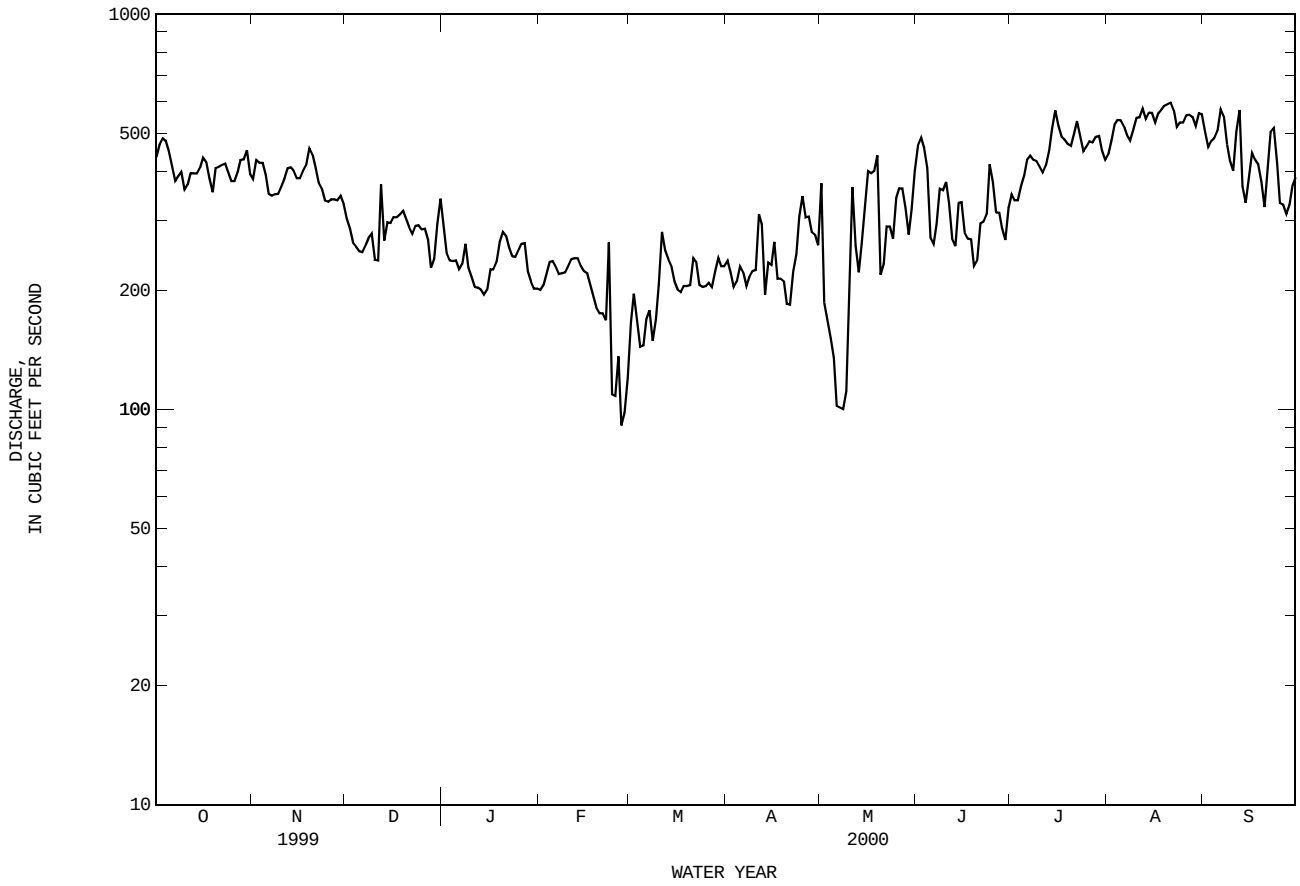
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2000z, BY WATER YEAR (WY)

MEAN	416	645	661	526	624	876	768	1311	1350	826	485	342
MAX	3628	6300	4681	5267	4611	4218	3555	8391	5222	4479	4101	2480
(WY)	1982	1982	1982	1992	1992	1997	1995	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1955 - 2000z	
ANNUAL TOTAL	122125		121179			
ANNUAL MEAN	335		331		736	
HIGHEST ANNUAL MEAN					3062	1982
LOWEST ANNUAL MEAN					94.2	1955
HIGHEST DAILY MEAN	633	Sep 6	596	Aug 21	19000	May 4 1990
LOWEST DAILY MEAN	168	May 20	91	Feb 27	.00	Oct 20 1993
ANNUAL SEVEN-DAY MINIMUM	190	May 17	118	Feb 24	.29	Nov 3 1983
INSTANTANEOUS PEAK FLOW			900	May 19	19600	May 4 1990
INSTANTANEOUS PEAK STAGE			9.42	May 19	30.15	May 4 1990
ANNUAL RUNOFF (AC-FT)	242200		240400		533300	
10 PERCENT EXCEEDS	488		505		3070	
50 PERCENT EXCEEDS	303		314		222	
90 PERCENT EXCEEDS	227		201		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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1965, at least 10% of contributing drainage has been regulated at times by discharge from the flood detention pools of 84 floodwater-retarding structures with a combined detention capacity of 52,750 acre-ft. These structures control runoff from 197 mi^2 in the Denton Creek Watershed. No known diversions. No flow at times most years. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--15 years (water years 1950-64), 75.2 ft^3/s (54,440 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1950-64).--Maximum discharge, 29,800 ft^3/s, May 24, 1957, gage height, 17.64 ft; no flow at times.

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 resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	2.4	1.2	2.6	122	.10	.00	.00	.00
2	.00	.00	.00	.00	2.2	2.5	21	166	.07	.00	.00	.00
3	.00	.00	.00	.00	2.2	77	16	53	.05	.00	.00	.00
4	.00	.00	.00	.00	2.1	25	8.0	73	.07	.00	.00	.00
5	.00	.00	.00	.00	2.0	9.2	5.2	25	.07	.00	.00	.00
6	.00	.00	.00	.00	1.8	5.2	3.8	185	.04	.00	.00	.00
7	.00	.00	.00	.00	1.5	3.3	3.3	116	.02	.00	.00	.00
8	.00	.00	.00	.00	1.5	3.6	2.4	38	.00	.00	.00	.00
9	.00	.00	.00	.00	1.7	5.4	1.8	20	.00	.00	.00	.00
10	.00	.00	.00	.09	1.7	4.4	1.7	12	.01	.00	.00	.00
11	.00	.00	.00	1.7	1.6	198	1.9	9.1	19	.00	.00	.00
12	.00	.00	.00	2.0	1.6	31	3.1	6.6	15	.00	.00	.00
13	.00	.00	.00	1.6	2.0	13	7.2	4.0	6.4	.00	.00	.00
14	.00	.00	.00	1.5	1.5	8.8	6.7	2.3	2.1	.00	.00	.00
15	.00	.00	.00	1.4	1.4	6.7	4.9	1.6	1.3	.00	.00	.00
16	.00	.00	.00	1.2	1.5	5.6	87	1.3	.91	.00	.00	.00
17	.00	.00	.00	1.2	1.6	4.5	47	1.2	.73	.00	.00	.00
18	.00	.00	.00	1.3	1.6	4.3	14	1.1	.76	.00	.00	.00
19	.00	.00	.00	1.5	1.6	3.5	8.6	1.0	.62	.00	.00	.00
20	.00	.00	.00	1.5	2.3	3.2	5.9	2.4	.51	.00	.00	.00
21	.00	.00	.00	1.7	2.3	3.4	4.0	6.9	.41	.00	.00	.00
22	.00	.00	.00	1.7	2.0	4.9	2.8	2.6	.33	.00	.00	.00
23	.00	.00	.00	1.5	5.5	23	2.1	1.5	.21	.00	.00	.00
24	.00	.00	.00	1.5	16	8.7	1.9	1.1	.12	.00	.00	.00
25	.00	.00	.00	1.5	7.6	6.0	1.6	.82	.07	.00	.00	.00
26	.00	.00	.00	1.5	3.5	4.4	1.4	.60	.04	.00	.00	.00
27	.00	.00	.00	2.1	2.0	3.1	1.3	.53	.02	.00	.00	.00
28	.00	.00	.00	2.8	1.5	1.2	1.2	.54	.01	.00	.00	.00
29	.00	.00	.00	4.7	1.4	1.9	1.2	.39	.00	.00	.00	.00
30	.00	.00	.00	4.6	---	2.5	1.9	.25	.00	.00	.00	.00
31	.00	---	.00	3.1	---	1.8	---	.16	---	.00	.00	---
TOTAL	0.00	0.00	0.00	41.69	77.6	476.3	271.5	855.99	48.97	0.00	0.00	0.00
MEAN	.000	.000	.000	1.34	2.68	15.4	9.05	27.6	1.63	.000	.000	.000
MAX	.00	.00	.00	4.7	16	198	87	185	19	.00	.00	.00
MIN	.00	.00	.00	.00	1.4	1.2	1.2	.16	.00	.00	.00	.00
AC-FT	.00	.00	.00	83	154	945	539	1700	97	.00	.00	.00

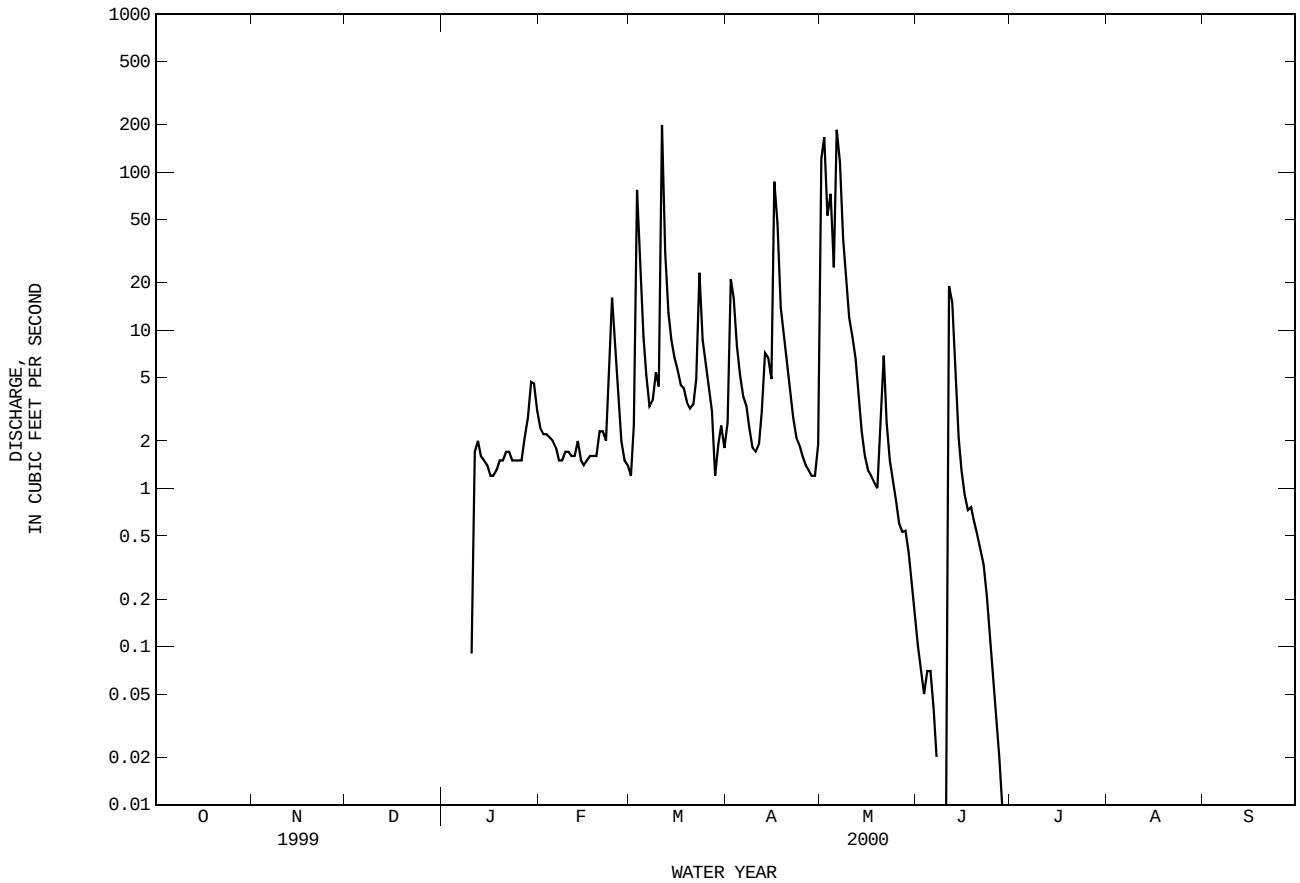
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000z, BY WATER YEAR (WY)

MEAN	147	107	96.9	56.8	130	175	173	322	183	33.3	10.6	28.9
MAX	2828	817	1321	437	1023	598	2095	2036	1815	260	91.5	242
(WY)	1982	1965	1992	1992	1997	1998	1990	1982	1989	1982	1973	1986
MIN	.000	.000	.000	1.34	2.68	5.55	3.99	3.45	.000	.000	.000	.000
(WY)	1978	1978	1978	2000	2000	1978	1980	1980	1980	1978	1967	1967

08053500 DENTON CREEK NEAR JUSTIN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000z	
ANNUAL TOTAL	5463.14		1772.05			
ANNUAL MEAN	15.0		4.84		122	
HIGHEST ANNUAL MEAN					577	1982
LOWEST ANNUAL MEAN					4.84	2000
HIGHEST DAILY MEAN	357	May 27	198	Mar 11	18600	Oct 14 1981
LOWEST DAILY MEAN	.00	Jul 17	.00	Oct 1	.00	Aug 6 1965
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 17	.00	Oct 1	.00	Sep 6 1965
INSTANTANEOUS PEAK FLOW			646	May 30	34700	Oct 13 1981
INSTANTANEOUS PEAK STAGE			7.27	May 30	18.68	Oct 13 1981
ANNUAL RUNOFF (AC-FT)	10840		3510		88320	
10 PERCENT EXCEEDS	31		6.5		189	
50 PERCENT EXCEEDS	2.3		.00		18	
90 PERCENT EXCEEDS	.00		.00		.00	

z Period of regulated streamflow.



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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
FEB											
10...	1000	1.5	657	7.7	11.0	4.4	8.4	78	.3	260	51
MAY											
03...	1100	47	722	7.8	19.0	56	7.6	83	2.6	250	71
09...	1030	21	440	7.3	24.0	77	5.2	63	2.3	190	31

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
10...	88	11	31	.8	2.8	210	82	26	.25	8.2	409
MAY											
03...	68	20	43	1	5.5	180	110	49	.22	7.6	441
09...	61	8.3	15	.5	6.3	160	30	18	.24	9.4	264

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
10...	378	4	--	<.010	<.050	<.020	--	.23	<.050	.011	.03
MAY											
03...	411	92	.286	.024	.310	.144	.51	.66	E.040	.024	.07
09...	243	166	.235	.054	.289	.150	.51	.66	.056	.028	.09

DATE	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)	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)
FEB										
10...	4.7	3.9	<1.0	E1	92	<1.0	<1.0	<.80	<1.0	1.2
MAY										
03...	8.3	--	--	--	--	--	--	--	--	--
09...	11	6.4	<1.0	3	81	<1.0	<1.0	<.80	<1.0	1.7

DATE	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)
FEB										
10...	E6.9	<1.0	8.8	<.2	2.0	2.2	<2	<1.0	<1.0	3.8
MAY										
03...	<10	--	3.0	--	--	--	--	--	--	--
09...	E5.4	1.0	5.6	<.2	2.5	2.2	<2	<1.0	3.9	2.7

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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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAY											
09...	1245	.17	385	7.3	24.5	22	6.0	73	1.1	160	58.5

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
MAY										
09...	3.50	16.4	.6	4.2	160	20.9	7.8	.4	10.9	236

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
MAY										
09...	224	30	.798	.072	.870	.105	.43	.54	E.034	.025

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	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)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
MAY										
09...	.077	12	<1	E2.0	65	<1	<1.0	<.8	<1	2

DATE	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)
MAY										
09...	E10	<1	11	<.2	<1	2	<2.4	<1	7	<1

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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.--Jul 1952 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 sea level. Prior to May 16, 1953, nonrecording gage at site 1,000 ft upstream at present datum. Satellite telemeter at station.

REMARKS.--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 Jun 1952, and deliberate impoundment began Jul 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 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 187,700 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	535.9
Lowest intake to wet wells (invert)	500.5
Invert of two broome-type gates	475.0

COOPERATION.--Record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, 140,700 acre-ft, Oct 1, elevation, 529.04 ft; minimum contents, 21,000 acre-ft, Oct 29, elevation, 499.96 ft.

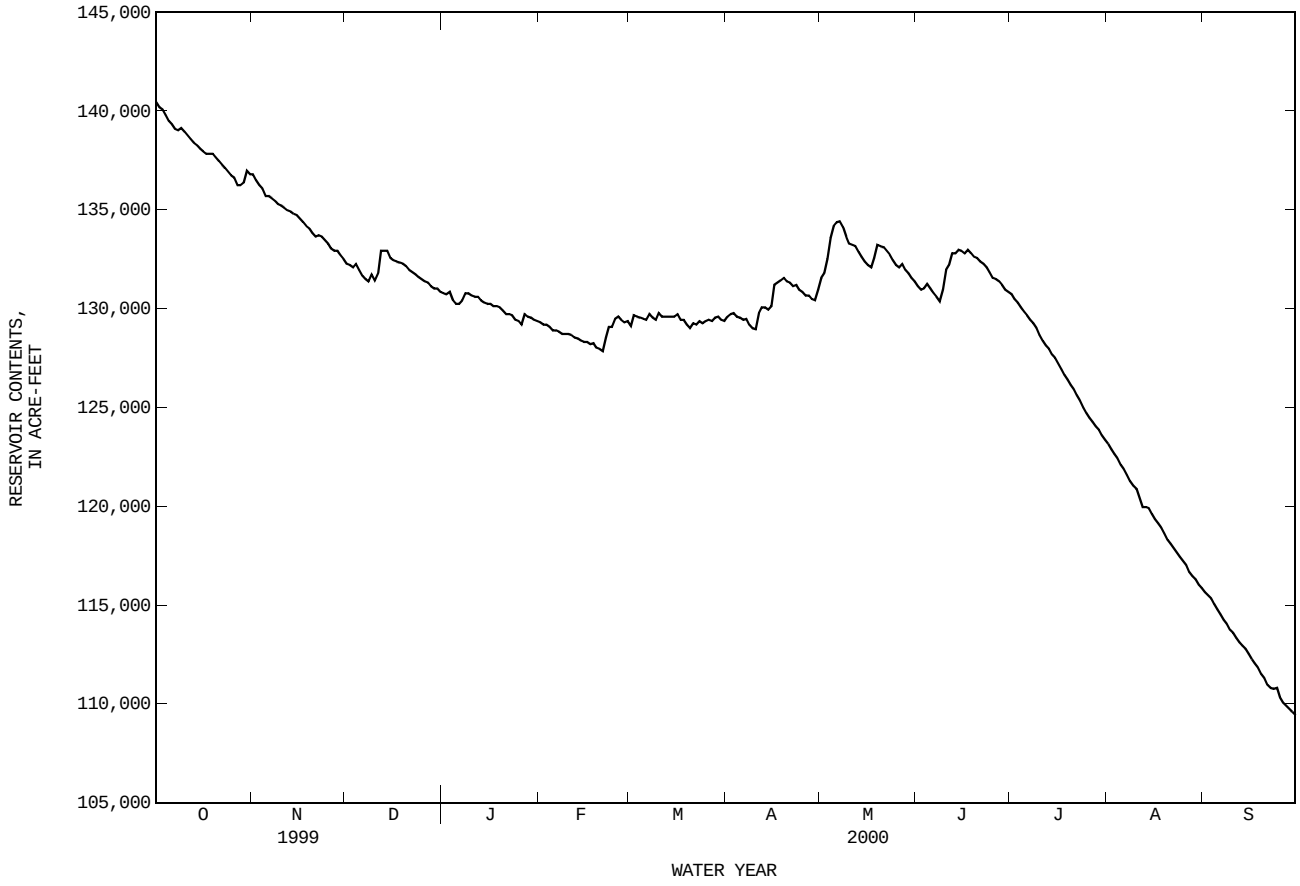
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140400	136800	132300	130800	129300	129100	129600	131500	131100	130700	123100	115600
2	140200	136500	132200	130700	129200	129600	129700	131800	130900	130500	122900	115500
3	140100	136200	132100	130800	129200	129600	129800	132500	131000	130300	122600	115300
4	139800	136100	132300	130400	129100	129500	129600	133600	131200	130100	122400	115000
5	139500	135700	132000	130200	128900	129500	129500	134200	131000	129800	122100	114800
6	139300	135700	131700	130200	128900	129400	129400	134400	130800	129600	121900	114500
7	139100	135600	131500	130400	128800	129700	129500	134400	130600	129400	121600	114200
8	139000	135400	131400	130800	128700	129500	129200	134100	130400	129200	121300	114000
9	139100	135300	131700	130800	128700	129400	129000	133600	130900	129000	121000	113800
10	138900	135200	131400	130700	128700	129800	128900	133300	132000	128700	120900	113600
11	138800	135100	131800	130600	128700	129600	129800	133200	132200	128400	120400	113300
12	138600	135000	132900	130600	128500	129600	130100	133200	132800	128100	119900	113100
13	138400	134900	132900	130400	128500	129600	130100	132900	132800	128000	119900	113000
14	138300	134800	132900	130300	128400	129600	129900	132600	133000	127700	119900	112800
15	138100	134700	132600	130200	128300	129600	130100	132400	132900	127500	119600	112500
16	138000	134500	132400	130200	128300	129700	131200	132200	132800	127200	119300	112300
17	137800	134400	132400	130100	128200	129400	131300	132100	133000	126900	119100	112000
18	137800	134200	132300	130100	128200	129400	131400	132600	132800	126600	118900	111800
19	137800	134100	132300	130100	128000	129200	131500	133200	132600	126400	118600	111500
20	137600	133800	132100	129900	128000	129000	131400	133200	132600	126100	118300	111300
21	137500	133600	132000	129700	127800	129200	131300	133100	132400	125900	118100	111000
22	137300	133700	131800	129700	128500	129200	131100	132900	132300	125600	117900	110800
23	137100	133600	131700	129600	129100	129400	131200	132700	132100	125300	117700	110800
24	136900	133500	131600	129400	129100	129200	130900	132400	131800	125000	117400	110800
25	136700	133300	131500	129400	129500	129400	130800	132200	131500	124700	117200	110300
26	136600	133000	131400	129200	129600	129400	130700	132100	131500	124500	117000	110100
27	136200	132900	131300	129700	129400	129400	130700	132300	131400	124300	116700	109900
28	136200	132900	131100	129600	129300	129500	130500	132000	131200	124000	116500	109700
29	136400	132700	131000	129500	129400	129600	130400	131800	130900	123900	116300	109600
30	137000	132500	131000	129400	---	129400	130900	131500	130800	123600	116000	109400
31	136800	---	130800	129400	---	129400	---	131400	---	123400	115900	---
MAX	140400	136800	132900	130800	129600	129800	131500	134400	133000	130700	123100	115600
MIN	136200	132500	130800	129200	127800	129000	128900	131400	130400	123400	115900	109400
(+)	528.41	527.70	527.41	527.17	527.17	527.17	527.43	527.51	527.41	526.12	524.76	523.54
(@)	-3900	-4300	-1700	-1400	0	0	+1500	+500	-600	-7400	-7500	-6500

CAL YR 1999 MAX 168500 MIN 130800 (@) -23100
WTR YR 2000 MAX 140400 MIN 109400 (@) -31300

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

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: Aug 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 1999 TO SEPTEMBER 2000

325822097030401 - Grapevine Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
FEB											
10...	1156	129000	1.00	358	7.9	10.5	1.07	10.7	99	K1	K1
10...	1204	--	10.0	358	7.8	10.0	--	11.1	101	--	--
10...	1209	--	20.0	358	7.7	10.0	--	11.4	104	--	--
10...	1211	--	30.0	358	7.6	10.0	--	11.0	100	--	--
10...	1214	--	40.0	358	7.1	10.0	--	11.1	101	--	--
10...	1216	--	46.0	359	7.6	10.0	--	10.7	98	--	--
MAY											
09...	1310	134000	1.00	389	8.3	21.5	.67	8.2	95	20	32
09...	1315	--	10.0	389	8.3	21.5	--	8.1	94	--	--
09...	1319	--	20.0	391	8.0	21.0	--	7.0	80	--	--
09...	1323	--	30.0	391	8.0	21.0	--	6.8	78	--	--
09...	1327	--	45.0	391	8.0	21.0	--	6.5	75	--	--
JUL											
26...	1420	125000	1.00	364	8.2	29.5	1.19	6.6	88	K1	K1
26-26	1420	--	--	--	--	--	--	--	--	--	--
26...	1425	--	10.0	364	8.2	29.0	--	6.6	87	--	--
26...	1430	--	20.0	373	7.4	28.0	--	.7	9	--	--
26...	1435	--	30.0	375	7.3	28.0	--	.1	1	--	--
26...	1441	--	44.0	388	7.3	27.0	--	.1	1	--	--

325822097030401 - Grapevine Lk Site AC

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
FEB											
10...	120	13	36.4	6.59	26.4	1	32	4.3	100	39.0	26.4
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	120	13	36.3	6.57	27.1	1	32	4.3	100	38.9	25.9
MAY											
09...	130	13	39.8	6.57	26.1	1	30	4.2	110	40.0	26.7
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	130	13	40.3	6.61	26.1	1	30	4.5	120	39.6	26.4
JUL											
26...	110	13	34.0	6.80	27.2	1	33	4.8	100	38.0	27.5
26-26	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	120	0	37.5	6.64	27.1	1	32	4.7	120	33.0	26.1

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

325822097030401 - Grapevine Lk Site AC

DATE	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)	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)
FEB											
10...	.3	4.6	208	--	<.010	.289	.103	.91	.51	.41	.51
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.3	4.6	208	--	<.010	.296	.109	.89	.48	.34	.45
MAY											
09...	.3	1.3	214	.254	.020	.274	<.029	.90	--	--	.32
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.3	1.8	216	.343	.011	.354	<.029	.81	--	--	.34
JUL											
26...	.3	3.5	202	--	<.010	E.024	.038	--	.61	.29	.33
26-26	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	<.010	E.025	.038	--	.65	.29	.33
26...	--	--	--	--	<.010	E.023	.096	--	.51	.30	.40
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.3	4.6	214	--	<.010	E.022	.395	--	.53	.31	.71

325822097030401 - Grapevine Lk Site AC

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	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)	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)
FEB											
10...	.62	<.050	<.050	.011	.034	130	32	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.59	<.050	<.050	<.010	--	<10	E1	--	--	--	--
MAY											
09...	.63	E.035	<.050	<.010	--	<10	<2	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.46	E.038	<.050	.017	.052	<10	<2	--	--	--	--
JUL											
26...	.65	E.047	<.050	<.010	--	<10	E1	--	--	--	--
26-26	--	--	--	--	--	--	--	<.003	<.002	<.002	<.002
26...	.69	.052	<.050	<.010	--	<10	3	--	--	--	--
26...	.60	E.046	<.050	<.010	--	E10	32	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.93	.124	.096	.061	.187	230	991	--	--	--	--

325822097030401 - Grapevine Lk Site AC

DATE	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)
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26-26	.282	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002	E.061
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

325822097030401 - Grapevine Lk Site AC

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)
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26-26	.011	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.014
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

325822097030401 - Grapevine Lk Site AC

DATE	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)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26-26	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.013	<.007
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

325822097030401 - Grapevine Lk Site AC

DATE	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										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
26-26	<.004	<.013	<.009	.212	.025	<.007	<.013	<.002	<.001	<.002
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--

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)
FEB							
10...	1225	1.00	359	7.9	10.0	11.0	100
10...	1227	10.0	358	8.0	10.0	10.7	98
10...	1230	20.0	358	7.8	10.0	11.0	100
10...	1233	30.0	359	7.3	10.0	12.0	110
10...	1236	35.0	359	6.9	10.0	12.8	117
MAY							
09...	1337	1.00	390	8.2	21.5	7.9	92
09...	1339	10.0	389	8.2	21.5	7.9	92
09...	1341	20.0	390	8.1	21.5	7.4	86
09...	1343	34.0	391	8.1	21.5	7.3	85
JUL							
26...	1453	1.00	368	8.0	29.0	5.6	74
26...	1456	20.0	368	7.9	28.5	5.1	67
26...	1459	20.0	371	7.5	28.5	2.2	29
26...	1502	32.0	375	7.4	28.5	2.2	29

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

325930097053801 - Grapevine Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
FEB										
10...	1254	1.00	358	8.1	11.0	.94	12.0	112	K1	K1
10...	1259	10.0	357	8.1	10.5	--	11.5	106	--	--
10...	1304	20.0	359	7.2	10.0	--	14.2	130	--	--
10...	1310	30.0	360	7.8	10.0	--	10.5	96	--	--
10...	1313	38.0	360	7.3	10.0	--	11.0	100	--	--
MAY										
09...	1402	1.00	388	8.5	22.5	.61	8.2	97	K8	K6
09...	1406	10.0	388	8.4	22.5	--	8.1	96	--	--
09...	1411	20.0	389	8.4	22.5	--	8.1	96	--	--
09...	1418	30.0	390	8.2	22.0	--	7.5	88	--	--
09...	1422	39.0	390	8.2	22.0	--	7.4	87	--	--
JUL										
26...	1525	1.00	358	8.5	30.0	.67	7.5	101	K1	K1
26...	1532	10.0	359	8.4	29.5	--	7.2	96	--	--
26...	1538	20.0	360	7.9	29.0	--	4.8	64	--	--
26...	1544	30.0	370	7.4	28.5	--	1.5	20	--	--
26...	1550	36.0	388	7.3	27.5	--	.1	1	--	--

325930097053801 - Grapevine Lk Site BC

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
FEB										
10...	120	13	36.6	6.59	27.0	1	32	4.2	100	39.1
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	120	17	38.1	6.63	26.9	1	31	4.4	110	38.8
MAY										
09...	130	13	40.1	6.64	26.3	1	30	4.3	120	40.0
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	130	13	40.1	6.62	26.3	1	30	4.4	110	40.3
JUL										
26...	110	11	32.2	6.70	26.2	1	33	4.9	97	38.1
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	120	1	37.8	6.80	26.7	1	31	4.8	120	32.5

325930097053801 - Grapevine Lk Site BC

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
FEB										
10...	25.5	.3	4.2	208	--	<.010	.276	.039	.91	.60
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	25.6	.3	4.8	211	--	<.010	.273	.092	.90	.54
MAY										
09...	26.5	.4	1.2	215	.206	.015	.221	<.029	.87	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	26.0	.3	1.4	215	.245	.023	.268	.029	.91	.61
JUL										
26...	26.7	.3	3.8	197	--	<.010	E.023	.047	--	.56
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	<.010	E.025	.047	--	.62
26...	--	--	--	--	--	<.010	E.024	.091	--	.62
26...	26.9	.3	5.1	215	--	<.010	E.025	.367	--	.84

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

325930097053801 - Grapevine Lk Site BC

DATE	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)	PHOS-PHORUS ORTHO, 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									
10...	.51	.55	.64	<.050	<.050	<.010	--	110	25
10...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
10...	.53	.62	.63	.034	.051	<.010	--	370	57
MAY									
09...	--	.32	.65	E.034	<.050	<.010	--	<10	<2
09...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	.30	.33	.64	.063	<.050	<.010	--	<10	E2
JUL									
26...	.31	.35	.60	E.048	<.050	<.010	--	<10	E1
26...	--	--	--	--	--	--	--	--	--
26...	.29	.34	.67	.052	<.050	<.010	--	<10	15
26...	.29	.38	.71	.075	<.050	<.010	--	E10	125
26...	.33	.69	1.2	.181	E.047	.029	.089	200	1290

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)
FEB											
10...	1330	1.00	361	8.2	11.0	10.8	101	--	--	.273	.063
10...	1335	7.00	361	8.1	10.5	10.6	98	--	--	.269	.064
MAY											
09...	1442	1.00	389	8.5	23.0	8.1	97	.186	.010	.196	<.029
09...	1449	9.00	378	8.4	22.5	7.7	91	--	<.010	--	--
JUL											
26...	1601	1.00	352	8.8	30.5	8.6	117	--	<.010	E.024	.094
26...	1607	7.00	350	8.8	30.5	8.8	120	--	<.010	E.025	.056

325933097081401 - Grapevine Lk Site CC

DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB										
10...	.89	.55	.35	.41	.61	<.050	<.050	--	<10	<2
10...	.84	.51	.31	.38	.57	E.031	<.050	--	<10	E2
MAY										
09...	.79	--	--	.35	.59	E.048	<.050	<.010	<10	<2
09...	--	--	--	<.10	.59	.062	<.050	<.010	<10	E1
JUL										
26...	--	.59	.31	.40	.69	.054	<.050	<.010	<10	2
26...	--	.63	.28	.33	.69	.062	<.050	<.010	<10	<2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

330106097094601 - Grapevine Lk 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)	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)
FEB											
10...	1356	1.00	362	8.4	12.5	11.4	110	--	--	.269	E.016
10...	1401	5.00	364	8.3	12.0	10.9	104	--	--	.275	E.025
MAY											
09...	1509	1.00	390	8.4	24.0	7.6	93	.305	.025	.330	E.016
09...	1514	6.00	389	8.5	24.0	7.5	91	.306	.024	.330	<.029
JUL											
26...	1619	1.00	352	8.8	30.5	9.0	122	--	<.010	E.024	.047
26...	1626	5.00	353	8.8	30.0	9.0	121	--	<.010	E.025	.044

330106097094601 - Grapevine Lk Site DC

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
FEB										
10...	.83	--	--	.36	.56	<.050	<.050	--	<10	<2
10...	.85	--	--	.36	.57	E.037	<.050	--	<10	<2
MAY										
09...	1.4	--	--	.36	1.0	.141	<.050	<.010	<10	<2
09...	1.1	--	--	.37	.77	.111	<.050	<.010	<10	<2
JUL										
26...	--	.60	.31	.36	.65	.069	<.050	<.010	<10	3
26...	--	.67	.32	.36	.71	.062	<.050	<.010	<10	<2

330207097103701 - Grapevine Lk 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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)
FEB										
10...	1417	1.00	370	8.6	15.5	.12	11.0	114	K14	60
10...	1423	4.00	366	8.5	15.0	--	10.1	103	--	--
MAY										
09...	1534	1.00	383	8.3	24.5	.15	7.2	89	K20	K14
09...	1537	3.00	382	8.4	24.5	--	7.5	92	--	--
JUL										
26...	1640	1.00	354	8.9	31.5	.12	8.9	123	K1	33
26...	1646	3.00	355	8.8	31.0	--	8.1	111	--	--

330207097103701 - Grapevine Lk Site EC

DATE	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)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
FEB										
10...	120	15	36.8	6.60	29.4	1	34	4.2	100	39.7
10...	120	8	35.5	6.51	28.7	1	34	4.5	110	40.1
MAY										
09...	130	5	42.7	5.97	23.3	.9	27	4.3	130	37.2
09...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	100	12	30.6	6.57	28.4	1	36	5.0	92	39.6
26...	--	--	--	--	--	--	--	--	--	--

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

330207097103701 - Grapevine Lk Site EC

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
FEB									
10...	27.1	.3	2.7	210	--	<.010	.202	E.019	1.3
10...	26.6	.3	2.4	209	.166	.010	.176	<.029	1.3
MAY									
09...	21.9	.3	3.6	217	.370	.030	.400	.057	1.4
09...	--	--	--	--	--	--	--	--	--
JUL									
26...	28.0	.3	4.5	198	--	<.010	E.020	E.026	--
26...	--	--	--	--	--	--	--	--	--

330207097103701 - Grapevine Lk Site EC

DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB									
10...	--	--	.33	1.1	.100	<.050	<.010	<10	<2
10...	--	--	.33	1.1	.118	<.050	<.010	<10	<2
MAY									
09...	.96	.35	.40	1.0	.161	<.050	<.010	<10	<2
09...	--	--	--	--	--	--	--	--	--
JUL									
26...	--	--	.39	.74	.123	<.050	<.010	<10	<2
26...	--	--	--	--	--	--	--	--	--

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site AC (325822097030401)

Phytoplankton Analyses October 1999 to September 2000

Date	02/10/00
Time	1156
TOTAL CELLS/mL	14,743
NUMBER OF SPECIES	23
DEPTH COLLECTED (ft.)	1.75

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	3,776
Stephanodiscus hantzschii 8-11 um	15
Stephanodiscus medius	58
Order Pennales	
Nitzschia acicularis	217
Synedra tenera	15
Synedra ulna	15
CHLOROPHYTA	
Ankistrodesmus convolutus	43
Ankistrodesmus falcatus	43
Didymogenes anomala	29
Monoraphidium capricornutum	203
Non-motile Chlorococcales-spherical	87
Oocystis parva	203
Pediastrum simplex	145
Selenastrum minutum	15
Tetrastrum staurogeniaeforme	159
CYANOPHYTA	
Anabaena circinalis	463
Aphanocapsa delicatissima	4,526
Non-motile blue-greens (>1 um)	29
CHRYSOPHYTA	
Erkenia subaequiciliata	29
PYRROPHYTA	
Gymnodinium sp. 2	15
CRYPTOPHYTA	
Cryptomonas erosa	72
Rhodomonas minuta v. *nannoplanctica*	159
Misc. microflagellate	4,427

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site EC (330207097103701)

Phytoplankton Analyses October 1999 to September 2000

Date	02/10/00
Time	1417
TOTAL CELLS/mL	32,121
NUMBER OF SPECIES	15
DEPTH COLLECTED (ft.)	2.00

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	10,938
Stephanodiscus hantzschii 8-11 um	6,511
Stephanodiscus medius	174
Order Pennales	
Gyrosigma sp.	87
Navicula cryptocephala	87
Navicula sp.	260
Nitzschia acicularis	260
Nitzschia palea	3,125
Nitzschia pumila	174
CHLOROPHYTA	
Ankistrodesmus falcatus	174
Chlamydomonas platystigma	87
Non-motile Chlorococcales-spherical	174
CRYPTOPHYTA	
Cryptomonas erosa	434
Rhodomonas minuta v. *nannoplanctica*	4,948
Misc. microflagellate	4,688

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site AC (325822097030401)

Phytoplankton Analyses October 1999 to September 2000

Date	05/09/00
Time	1310
TOTAL CELLS/mL	17,792
NUMBER OF SPECIES	45
DEPTH COLLECTED (ft.)	1.10

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclostephanos invisitatus	2,656
Melosira cf. *distans*	69
Stephanodiscus medius	1,354
Order Pennales	
Nitzschia acicularis	52
Nitzschia palea	69
CHLOROPHYTA	
Ankistrodesmus convolutus	104
Ankistrodesmus falcatus	122
Chlamydomonas globosa	69
Chlamydomonas incerta	17
Chlamydomonas platystigma	17
Closterium moniliferum	122
Colonial chlorophyta - type 2	139
Crucigenia crucifera	486
Crucigenia quadrata	278
Kirchneriella subsolitaria	278
Lagerheimia quadriseta	17
Monomastix astigmata	17
Monoraphidium capricornutum	174
Non-motile Chlorococcales-spherical	122
Oocystis parva	347
Pandorina morum	69
Pediastrum tetras	139
Scenedesmus abundans	69
Scenedesmus bijuga	69
Scenedesmus dimorphus	382
Scenedesmus intermedius	313
Scenedesmus quadricauda	486
Scenedesmus quadricauda v. *longispina*	69
Selenastrum minutum	174
Tetraedron minimum	17
Tetrastrum glabrum	69
CYANOPHYTA	
Anabaena circinalis	625
Aphanocapsa delicatissima	695
Aphanocapsa elachista	2,604
Aphanocapsa koordersi	868
Merismopedia tenuissima	1,111
Non-motile blue-greens (>1 um)	17
Oscillatoria limnetica	174
CHRYSOPHYTA	
Erkenia subaequiciliata	17
EUGLENOPHYTA	
Euglena gracilis	17
PYRRHOPHYTA	
Gymnodinium sp. 2	18
CRYPTOPHYTA	
Cryptomonas erosa	226
Cryptomonas rostratiformis	17
Rhodomonas minuta v. *nannoplanctica*	1,580
Misc. micros, 1 flagellum	1,458

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site EC (330207097103701)

Phytoplankton Analyses October 1999 to September 2000

Date	05/09/00
Time	1534
TOTAL CELLS/mL	15,064
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	0.25

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclostephanos invisitatus	556
Melosira cf. *distans*	139
Melosira granulata	208
Stephanodiscus medius	4,445
Order Pennales	
Navicula cryptocephala	139
Navicula sp.	69
Nitzschia acicularis	35
Nitzschia palea	347
CHLOROPHYTA	
Ankistrodesmus convolutus	69
Ankistrodesmus falcatus	174
Chlamydomonas globosa	208
Chlamydomonas incerta	35
Closterium moniliferum	174
Crucigenia quadrata	556
Crucigenia tetrapedia	556
Dictyosphaerium pulchellum	139
Non-motile Chlorococcales-spherical	35
Oocystis parva	69
Pediastrum tetras	139
Scenedesmus abundans	139
Scenedesmus bijuga	139
Scenedesmus intermedius	139
Scenedesmus quadricauda	347
Selenastrum minutum	35
CYANOPHYTA	
Aphanocapsa elachista	2,084
Merismopedia tenuissima	2,778
CHYRSOPHYTA	
Mallomonas sp.	35
EUGLENOPHYTA	
Euglena gracilis	104
Phacus sp.	9
CRYPTOPHYTA	
Cryptomonas erosa	208
Rhodomonas minuta v. *nannoplanctica*	695
Misc. micros, 1 flagellum	260

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site AC (325822097030401)

Phytoplankton Analyses October 1999 to September 2000

Date	07/26/00
Time	1420
TOTAL CELLS/mL	176,760
NUMBER OF SPECIES	45
DEPTH COLLECTED (ft.)	1.95

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	186
Order Pennales	
Achnanthes minutissima	37
Nitzschia acicularis	37
Nitzschia palea	149
Nitzschia pumila	186
Synedra tenera	186
CHLOROPHYTA	
Ankistrodesmus falcatus	149
Chlamydomonas globosa	149
Closterium moniliferum	6
Coelastrum reticulatum	149
Cosmarium tenue	112
Crucigenia tetrapedia	149
Dictyosphaerium pulchellum	74
Monoraphidium capricornutum	260
Non-motile Chlorococcales-spherical	112
Oocystis parva	112
Scenedesmus bijuga	223
Scenedesmus quadricauda	74
Tetraedron minimum	37
CYANOPHYTA	
Anabaena flos-aquae	1,116
Anabaenopsis tanganyikae	298
Aphanizomenon gracile	1,191
Aphanocapsa delicatissima	50,227
Aphanocapsa elachista	19,347
Chroococcus minimus	595
Cylindrospermopsis philippinensis	21,579
Dactylococcopsis irregularis	37
Lyngbya contorta	4,520
Lyngbya lagerheimii f. *minor*	7,627
Lyngbya limnetica	9,487
Merismopedia punctata	595
Merismopedia tenuissima	18,930
Non-motile blue-greens (>1 um)	409
Oscillatoria limnetica	32,406
Raphidiopsis curvata	2,741
CHRYSOPHYTA	
Erkenia subaequiciliata	298
Non-motile Chrysophytes	37
EUGLENOPHYTA	
Euglena sp.	13
Phacus sp.	6
PYRRHOPHYTA	
Glenodinium quadridens	6
Gymnodinium sp. 1	13
Gymnodinium sp. 2	6
Peridinium polonicum	6
CRYPTOPHYTA	
Cryptomonas erosa	186
Misc. microflagellate	2,697

08054500 GRAPEVINE LAKE NEAR GRAPEVINE, TX--Continued

Grapevine Lake Site EC (330207097103701)

Phytoplankton Analyses October 1999 to September 2000

Date	07/26/00
Time	1640
TOTAL CELLS/mL	538,068
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	0.20

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	130
Stephanodiscus hantzschii 8-11 um	260
Order Pennales	
Gomphonema sp.	130
Navicula bacillum	22
Nitzschia palea	521
Nitzschia pumila	651
CHLOROPHYTA	
Ankistrodesmus convolutus	260
Ankistrodesmus falcatus	130
Chlamydomonas globosa	130
Gloeocystis sp.	260
Non-motile Chlorococcales- spherical	260
Oocystis parva	260
Tetraedron muticum	130
CYANOPHYTA	
Anabaena flos-aquae	5,469
Aphanizomenon sp.	1,693
Aphanocapsa delicatissima	230,000
Aphanocapsa elachista	11,720
Cylindrospermopsis philippinensis	57,643
Dactylococcopsis irregularis	912
Lyngbya contorta	2,604
Lyngbya lagerheimii f. minor	8,334
Lyngbya limnetica	64,946
Merismopedia tenuissima	52,459
Non-motile blue-greens (>1 um)	1,042
Oscillatoria limnetica	79,459
Raphidiopsis curvata	17,189
CHRYSOPHYTA	
Non-motile Chrysophytes	391
EUGLENOPHYTA	
Euglena sp.	22
PYRRHOPHYTA	
Gymnodinium sp. 1	130
Gymnodinium sp. 2	130
Peridinium umbonatum	130
CRYPTOPHYTA	
Cryptomonas erosa	651

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-discharge records.--Oct 1947 to Jun 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
FEB											
10...	1515	24	378	8.1	10.7	3.9	12.8	118	120	15	36.6
MAY											
09...	1030	260	397	7.5	21.5	77	8.4	97	190	73	60.8
JUL											
26...	1545	44	371	7.9	29.5	2.1	4.7	63	100	--	30.5

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
10...	6.62	27.3	1	4.4	100	37.2	25.1	.3	3.9	229	205
MAY											
09...	8.30	14.9	.5	6.3	110	30.5	18.1	.2	9.4	264	218
JUL											
26...	5.99	24.7	1	4.8	100	37.1	26.6	.3	3.7	215	196

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB										
10...	4	--	<.010	.287	.077	.99	1.1	<.050	<.010	--
MAY										
09...	166	.235	.054	.289	.150	.51	.66	.056	.028	.086
JUL										
26...	<10	--	<.010	<.050	.047	.77	.81	<.050	<.010	--

DATE	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)	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)
FEB										
10...	5.0	4	<1	E1.3	59	<1	<1.0	<.8	<1	<1
MAY										
09...	11	6	<1	3.0	81	<1	<1.0	<.8	<1	2
JUL										
26...	5.3	3	<1	3.8	58	<1	<1.0	<.8	<1	<1

DATE	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)
FEB										
10...	<10	<1	1	<.2	2	2	<2.4	<1	<1	1
MAY										
09...	E10	1	6	<.2	3	2	<2.4	<1	4	3
JUL										
26...	<10	<1	38	<.2	2	1	<2.4	<1	<1	<1

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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 Jul 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

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 sea level. 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 Jul 6, 1938, water-stage recorder at present site and datum. Jul 7, 1938 to Apr 14, 1939, nonrecording gage at site 9.3 mi downstream at datum 22.94 ft lower. Apr 15, 1939 to Sep 30, 1955, water-stage recorder at site 8.5 mi downstream at datum 22.94 ft lower. Oct 1, 1955 to Sep 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. Since Nov 1954, at least 10% of contributing drainage area has been regulated by Lewisville Lake (station 08052800, conservation pool storage 464,500 acre-ft). Additional regulation by Grapevine Lake (station 08054500, conservation pool storage 187,700 acre-ft) since Jul 1952. 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	74	116	158	114	10	161	1250	133	156	115	246
2	74	57	113	122	106	121	198	116	195	163	193	223
3	82	52	82	115	123	383	60	77	326	106	231	239
4	82	43	123	132	119	78	21	36	552	149	210	211
5	78	52	116	126	98	42	28	5.3	134	136	218	130
6	64	100	107	124	96	35	49	9.7	111	149	259	228
7	37	93	98	114	66	60	23	1.4	73	179	215	271
8	37	98	103	231	60	32	21	.00	74	212	169	201
9	55	93	141	147	65	8.7	64	41	172	213	185	147
10	50	101	121	124	65	122	10	138	534	186	233	114
11	28	91	93	119	76	196	307	157	914	142	213	94
12	40	99	412	116	91	147	790	141	162	146	224	370
13	45	99	136	124	92	66	3.8	8.4	119	146	190	133
14	37	106	133	113	64	49	124	31	213	143	198	104
15	41	101	114	96	47	68	123	47	401	370	264	85
16	56	116	129	138	79	17	418	143	103	255	186	183
17	89	111	143	126	121	34	98	136	396	195	215	201
18	60	125	94	127	126	42	60	139	386	230	210	157
19	94	74	40	156	117	40	67	885	174	199	225	178
20	91	78	14	158	107	1.9	56	305	61	192	256	80
21	77	126	23	172	105	134	18	45	107	214	246	129
22	92	116	28	149	166	348	49	101	80	275	222	260
23	88	155	17	147	1420	116	109	66	19	279	189	298
24	94	118	22	119	87	82	127	34	150	167	199	300
25	59	112	55	140	262	40	63	107	213	174	176	169
26	55	128	47	161	508	72	28	124	115	202	233	160
27	54	121	34	214	29	26	116	239	154	151	233	128
28	66	104	79	180	1.6	36	155	266	194	215	192	127
29	84	119	64	135	.14	93	73	87	38	265	190	163
30	140	136	94	120	---	39	103	8.1	61	181	196	165
31	108	---	139	106	---	55	---	109	---	176	245	---
TOTAL	2124	2998	3030	4309	4410.74	2593.6	3522.8	4852.90	6364	5966	6530	5494
MEAN	68.5	99.9	97.7	139	152	83.7	117	157	212	192	211	183
MAX	140	155	412	231	1420	383	790	1250	914	370	264	370
MIN	28	43	14	96	.14	1.9	3.8	.00	19	106	115	80
AC-FT	4210	5950	6010	8550	8750	5140	6990	9630	12620	11830	12950	10900

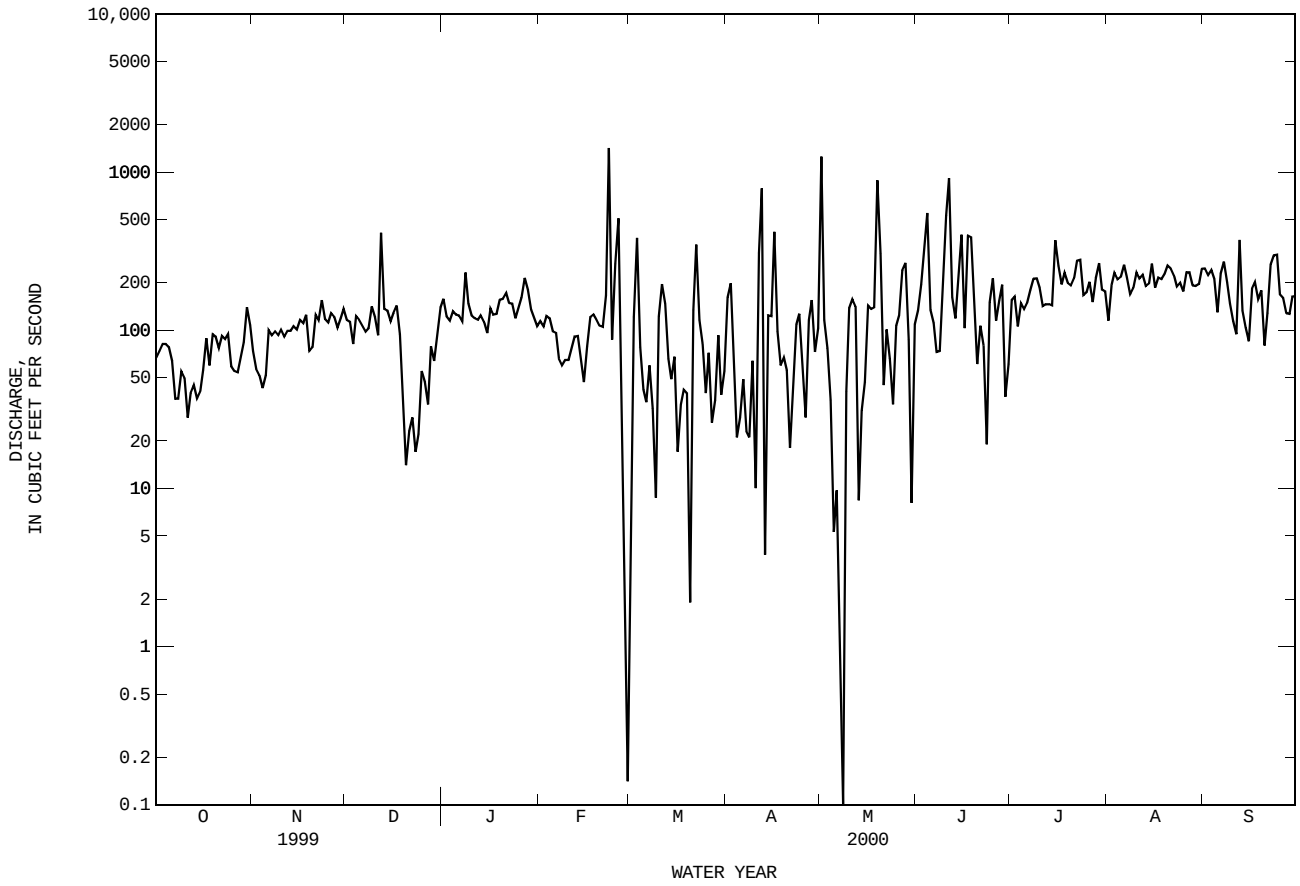
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2000z, BY WATER YEAR (WY)

MEAN	418	739	824	628	747	1057	1004	1547	1622	925	521	291
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	.78	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1955 - 2000z	
ANNUAL TOTAL	55488		52195.04			
ANNUAL MEAN	152		143		861	
HIGHEST ANNUAL MEAN					4289	1982
LOWEST ANNUAL MEAN					76.0	1978
HIGHEST DAILY MEAN	1710	Jun 21	1420	Feb 23	25300	May 5 1990
LOWEST DAILY MEAN	14	Dec 20	.00	May 8	.00	Dec 2 1954
ANNUAL SEVEN-DAY MINIMUM	28	Dec 19	24	May 3	.00	Jan 7 1959
INSTANTANEOUS PEAK FLOW			3420	Feb 23	33000	Sep 21 1964
INSTANTANEOUS PEAK STAGE			6.29	Feb 23	13.48	May 5 1990
ANNUAL RUNOFF (AC-FT)	110100		103500		623400	
10 PERCENT EXCEEDS	229		241		3830	
50 PERCENT EXCEEDS	123		118		147	
90 PERCENT EXCEEDS	58		36		37	

z Period of regulated streamflow.



08056000 ELM FORK TRINITY RIVER AT FRASIER DAM, DALLAS TX

LOCATION.--Lat 32°50′31", long 96°53′23", Dallas County, Hydrologic Unit 12030103, at right bank of dam, 4.4 mi northeast of city hall in Irving, Texas, 0.7 mi downstream of Spur 482.

DRAINAGE AREA.--2,557 mi^2.

PERIOD OF RECORD.--Apr 1999 to current year (elevation).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily elevations. Records good. Water elevation is regulated by a concrete weir at gage.

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

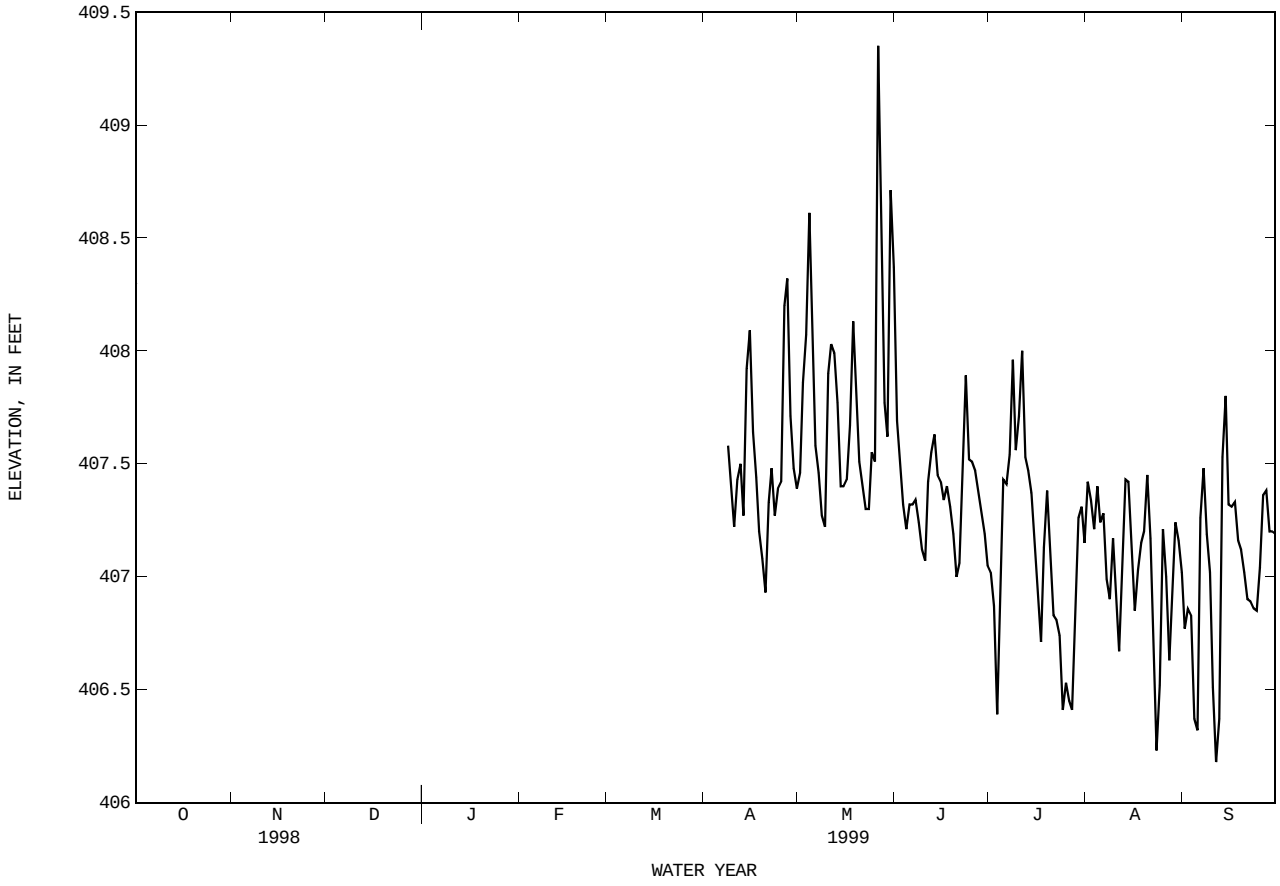
EXTREMES FOR WATER YEAR 1999.--Maximum elevation, 409.72 ft, May 26; minimum elevation, 406.17 ft, Sep 11.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 411.53 ft, Jun 11; minimum elevation, 404.62 ft, Jun 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	407.46	407.69	407.02	407.42	406.77
2	---	---	---	---	---	---	---	407.86	407.51	406.87	407.34	406.86
3	---	---	---	---	---	---	---	408.07	407.32	406.39	407.21	406.83
4	---	---	---	---	---	---	---	408.61	407.21	406.76	407.40	406.37
5	---	---	---	---	---	---	---	408.13	407.32	407.43	407.24	406.32
6	---	---	---	---	---	---	---	407.58	407.32	407.41	407.28	407.26
7	---	---	---	---	---	---	---	407.46	407.34	407.54	406.99	407.48
8	---	---	---	---	---	---	407.58	407.27	407.24	407.96	406.90	407.19
9	---	---	---	---	---	---	407.43	407.22	407.12	407.56	407.17	407.02
10	---	---	---	---	---	---	407.22	407.90	407.07	407.71	406.94	406.51
11	---	---	---	---	---	---	407.43	408.03	407.42	408.00	406.67	406.18
12	---	---	---	---	---	---	407.50	407.99	407.55	407.53	407.08	406.37
13	---	---	---	---	---	---	407.27	407.77	407.63	407.47	407.43	407.53
14	---	---	---	---	---	---	407.92	407.40	407.45	407.37	407.42	407.80
15	---	---	---	---	---	---	408.09	407.40	407.42	407.16	407.13	407.32
16	---	---	---	---	---	---	407.64	407.43	407.34	406.91	406.85	407.31
17	---	---	---	---	---	---	407.44	407.67	407.40	406.71	407.03	407.33
18	---	---	---	---	---	---	407.20	408.13	407.31	407.13	407.15	407.16
19	---	---	---	---	---	---	407.08	407.80	407.19	407.38	407.20	407.12
20	---	---	---	---	---	---	406.93	407.51	407.00	407.11	407.45	407.02
21	---	---	---	---	---	---	407.33	407.40	407.06	406.83	407.17	406.90
22	---	---	---	---	---	---	407.48	407.30	407.56	406.81	406.67	406.89
23	---	---	---	---	---	---	407.27	407.30	407.89	406.74	406.23	406.86
24	---	---	---	---	---	---	407.39	407.55	407.52	406.41	406.52	406.85
25	---	---	---	---	---	---	407.42	407.51	407.51	406.53	407.21	407.04
26	---	---	---	---	---	---	408.20	409.35	407.47	406.45	407.00	407.36
27	---	---	---	---	---	---	408.32	408.68	407.38	406.41	406.63	407.38
28	---	---	---	---	---	---	407.71	407.77	407.29	406.82	406.88	407.20
29	---	---	---	---	---	---	407.48	407.62	407.19	407.26	407.24	407.20
30	---	---	---	---	---	---	407.39	408.71	407.05	407.31	407.16	407.19
31	---	---	---	---	---	---	---	408.37	---	407.15	407.02	---
MEAN	---	---	---	---	---	---	---	407.81	407.36	407.10	407.07	407.02
MAX	---	---	---	---	---	---	---	409.35	407.89	408.00	407.45	407.80
MIN	---	---	---	---	---	---	---	407.22	407.00	406.39	406.23	406.18

08056000 ELM FORK TRINITY RIVER AT FRASIER DAM, DALLAS TX--Continued

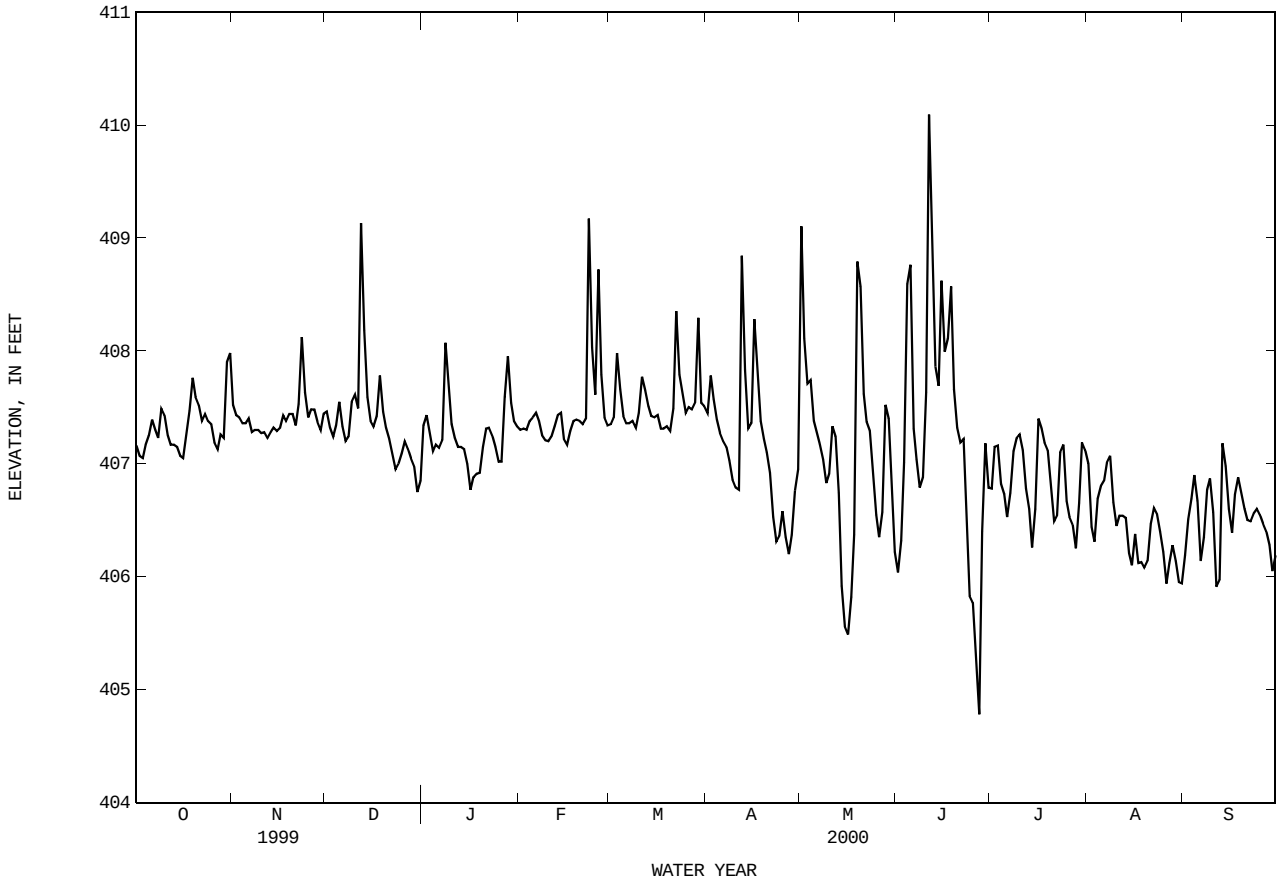


08056000 ELM FORK TRINITY RIVER AT FRASIER DAM, DALLAS TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407.16	407.52	407.46	407.34	407.30	407.35	407.45	409.10	406.04	406.78	407.00	406.19
2	407.07	407.43	407.32	407.43	407.31	407.41	407.78	408.11	406.32	407.15	406.44	406.51
3	407.05	407.41	407.24	407.27	407.30	407.98	407.57	407.71	407.01	407.16	406.31	406.69
4	407.17	407.36	407.34	407.11	407.38	407.66	407.39	407.74	408.59	406.82	406.69	406.90
5	407.25	407.36	407.55	407.17	407.41	407.42	407.27	407.38	408.76	406.73	406.80	406.67
6	407.39	407.40	407.33	407.14	407.45	407.36	407.20	407.28	407.31	406.53	406.85	406.14
7	407.30	407.28	407.20	407.21	407.38	407.36	407.15	407.17	407.04	406.74	407.01	406.35
8	407.23	407.30	407.24	408.07	407.25	407.38	407.03	407.04	406.79	407.11	407.07	406.77
9	407.49	407.30	407.55	407.70	407.21	407.32	406.86	406.83	406.88	407.23	406.66	406.87
10	407.43	407.27	407.61	407.35	407.20	407.45	406.79	406.91	407.63	407.26	406.45	406.57
11	407.25	407.28	407.49	407.23	407.24	407.77	406.77	407.33	410.09	407.12	406.54	405.91
12	407.17	407.23	409.13	407.15	407.33	407.65	408.84	407.24	409.07	406.78	406.54	405.97
13	407.17	407.28	408.18	407.15	407.43	407.51	407.83	406.74	407.86	406.60	406.52	407.18
14	407.15	407.32	407.59	407.13	407.45	407.42	407.31	405.92	407.69	406.26	406.21	406.98
15	407.07	407.29	407.38	407.00	407.22	407.41	407.36	405.56	408.62	406.60	406.10	406.60
16	407.05	407.32	407.33	406.77	407.17	407.43	408.28	405.49	407.99	407.40	406.38	406.39
17	407.26	407.43	407.42	406.88	407.29	407.31	407.79	405.82	408.11	407.31	406.12	406.73
18	407.47	407.38	407.78	406.91	407.38	407.31	407.38	406.37	408.57	407.19	406.13	406.88
19	407.76	407.44	407.46	406.92	407.39	407.33	407.22	408.79	407.66	407.12	406.08	406.74
20	407.59	407.44	407.32	407.15	407.38	407.29	407.10	408.57	407.32	406.83	406.14	406.60
21	407.52	407.34	407.22	407.31	407.35	407.49	406.92	407.62	407.19	406.49	406.47	406.50
22	407.38	407.53	407.09	407.32	407.40	408.35	406.53	407.37	407.22	406.54	406.61	406.49
23	407.44	408.12	406.95	407.25	409.17	407.79	406.31	407.29	406.61	407.10	406.56	406.56
24	407.38	407.63	407.00	407.15	408.03	407.61	406.36	406.95	405.83	407.17	406.40	406.60
25	407.35	407.41	407.09	407.02	407.61	407.45	406.58	406.55	405.77	406.67	406.22	406.55
26	407.19	407.48	407.20	407.02	408.72	407.50	406.35	406.35	405.34	406.53	405.94	406.47
27	407.13	407.48	407.13	407.59	407.79	407.48	406.20	406.57	404.78	406.46	406.12	406.40
28	407.26	407.37	407.05	407.95	407.41	407.54	406.37	407.52	406.40	406.25	406.28	406.28
29	407.23	407.30	406.98	407.54	407.34	408.29	406.76	407.40	407.18	406.65	406.14	406.05
30	407.90	407.44	406.75	407.38	---	407.54	406.95	406.85	406.79	407.19	405.95	406.19
31	407.98	---	406.85	407.33	---	407.51	---	406.22	---	407.12	405.94	---
MEAN	407.33	407.40	407.36	407.26	407.49	407.54	407.12	407.09	407.28	406.87	406.41	406.52
MAX	407.98	408.12	409.13	408.07	409.17	408.35	408.84	409.10	410.09	407.40	407.07	407.18
MIN	407.05	407.23	406.75	406.77	407.17	407.29	406.20	405.49	404.78	406.25	405.94	405.91

08056000 ELM FORK TRINITY RIVER AT FRASIER DAM, DALLAS TX--Continued



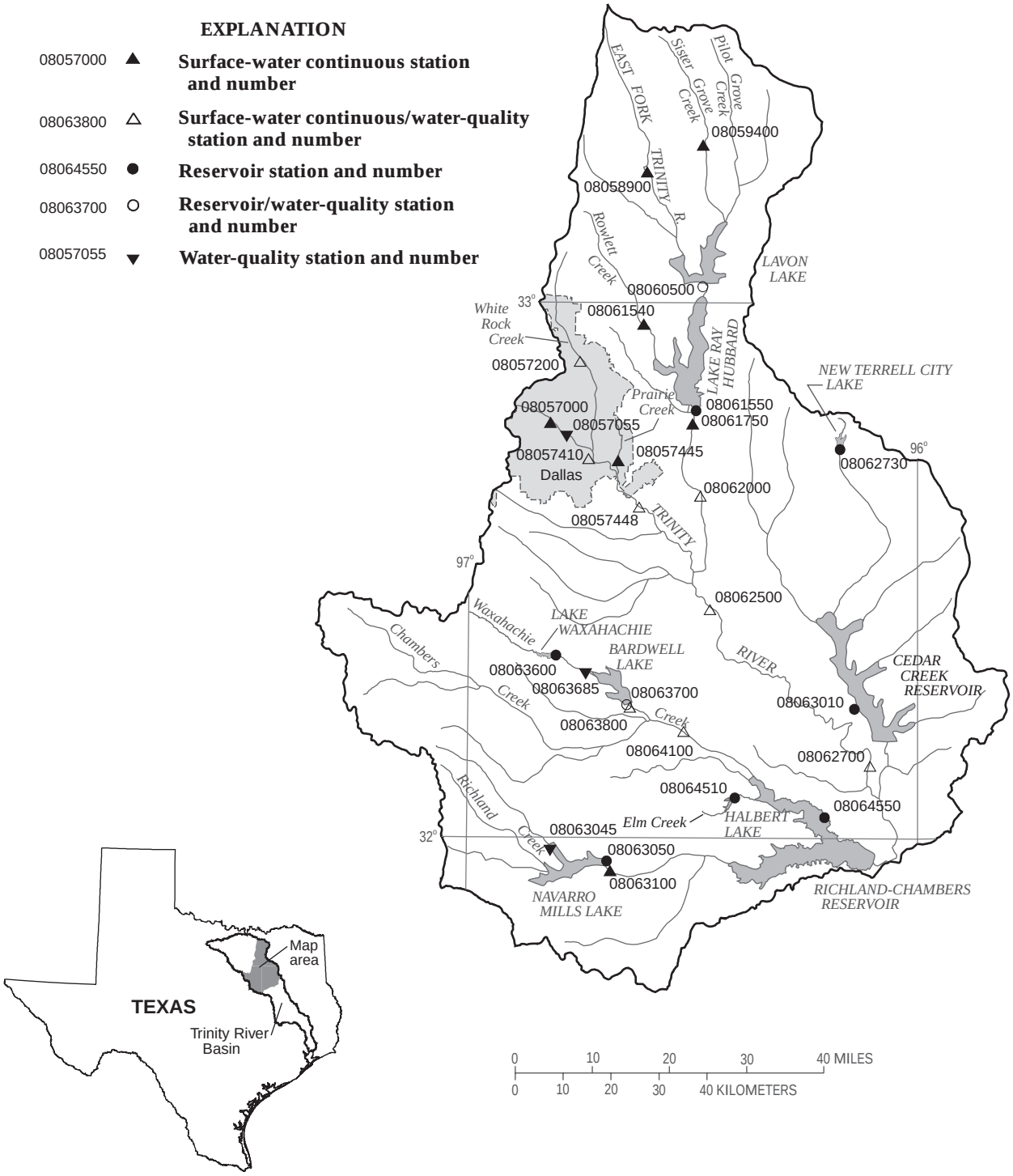


Figure 4.-- Map showing location of gaging stations in the second section of the Trinity River Basin

08057000 Trinity River at Dallas, TX 164
08057055 Trinity River at Cedar Crest Boulevard, Dallas, TX 166
08057200 White Rock Creek at Greenville Avenue, Dallas, TX 172
08057410 Trinity River below Dallad, TX 178
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 210
08059400 Sister Grove Creek near Blue Ridge, TX 212
08060500 Lavon Lake near Lavon, TX 214
08061540 Rowlett Creek near Sachse, TX 216
08061550 Lake Ray Hubbard near Forney, TX 218
08061750 East Fork Trinity River near Forney, TX 220
08062000 East Fork Trinity River near Crandall, TX 222
08062500 Trinity River near Rosser, TX 232
08062700 Trinity River at Trinidad, TX 242
08062730 New Terrell City Lake near Terrell, TX 250
08063010 Cedar Creek Reservoir near Trinidad, TX 254
08063045 Richland Creek near Irene, TX 256
08063050 Navarro Mills Lake near Dawson, TX 258
08063100 Richland Creek near Dawson, TX 272
08063600 Lake Waxahachie near Waxahachie, TX 276
08063685 Waxahachie Creek near Waxahachie, TX 280
08063700 Bardwell Lake near Ennis, TX 282
08063800 Waxahachie Creek near Bardwell, TX 296
08064100 Chambers Creek near Rice, TX 300
08064510 Halbert Lake near Corsicana, TX 308
08064550 Richland-Chambers Reservoir near Kerens, TX 312

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.

PERIOD OF RECORD.--Oct 1898 to Dec 1899 (gage heights only published in WSP 28 and 37), Jul 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. WRD TX-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 368.02 ft above sea level. Oct 1, 1898, to Dec 31, 1899, nonrecording gage at site 2 mi upstream at different datum. Jul 1, 1903, to Jul 20, 1930, nonrecording gage at present site and datum. Jul 21, 1930, to Sep 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, flow has been regulated by storage in Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Twelve major upstream reservoirs with a combined capacity of more than 2,370,000 acre-ft also regulate flow. 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	842	445	430	475	567	824	3240	483	e450	365	364
2	437	613	418	443	461	577	1170	2640	483	e440	354	351
3	e440	529	408	425	455	882	908	1630	514	e440	361	346
4	e450	506	473	410	462	725	722	3450	4720	e430	368	347
5	e440	488	492	409	517	608	646	1210	11900	e430	366	352
6	e450	492	431	412	578	586	635	720	5730	e425	369	354
7	466	472	401	478	473	584	618	602	3340	425	375	357
8	446	470	396	1720	437	591	575	551	3170	403	370	371
9	522	465	717	1220	430	589	564	503	2450	407	368	352
10	553	451	602	561	429	e800	569	496	4380	418	367	359
11	473	448	805	472	426	e1750	656	516	10200	401	363	361
12	442	455	5240	446	432	e640	2760	538	8790	392	355	566
13	442	448	3930	433	456	e630	1760	469	4650	388	362	404
14	439	444	924	423	464	623	693	445	3050	389	363	392
15	430	448	534	413	436	639	646	435	7890	387	351	384
16	420	436	477	417	420	645	2530	432	6300	429	350	367
17	437	460	473	416	436	611	2060	e440	3840	423	361	369
18	530	452	1170	418	449	593	809	452	5020	399	356	373
19	1070	465	741	415	453	605	662	2310	2960	402	353	365
20	801	463	502	413	453	595	597	2900	2030	388	349	362
21	553	435	443	432	454	699	558	1070	1950	384	350	358
22	478	618	424	436	498	1610	536	553	1800	380	354	367
23	470	1580	408	429	4340	1090	543	494	1130	393	354	362
24	456	662	403	422	3200	805	520	465	1020	406	344	410
25	454	494	397	409	806	e850	519	457	755	382	348	449
26	425	459	394	407	3050	e920	508	449	1040	376	344	400
27	404	449	405	692	1430	e977	503	455	716	379	349	383
28	417	426	404	1270	646	1020	501	527	2130	374	345	378
29	417	416	400	684	577	5150	488	525	776	363	345	377
30	1270	430	400	533	---	1830	493	484	e470	373	343	358
31	1870	---	395	502	---	853	---	475	---	373	349	---
TOTAL	17350	15816	24052	16990	24143	29644	25573	29933	103687	12449	11051	11338
MEAN	560	527	776	548	833	956	852	966	3456	402	356	378
MAX	1870	1580	5240	1720	4340	5150	2760	3450	11900	450	375	566
MIN	404	416	394	407	420	567	488	432	470	363	343	346
AC-FT	34410	31370	47710	33700	47890	58800	50720	59370	205700	24690	21920	22490

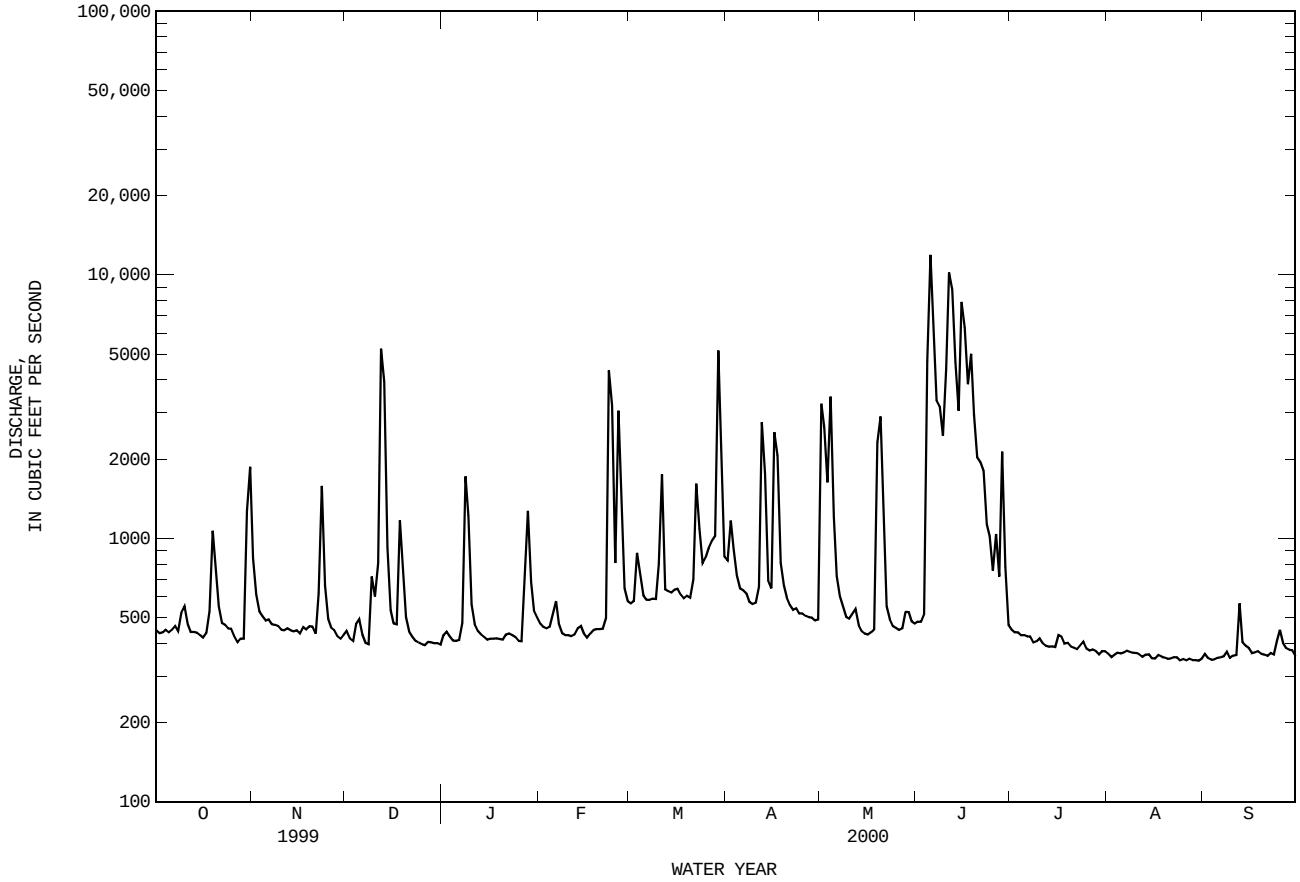
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000hz, BY WATER YEAR (WY)

MEAN	1187	1321	1481	1345	2000	2297	2509	3877	3038	1243	704	789
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000hz	
ANNUAL TOTAL	334709		322026			
ANNUAL MEAN	917		880		1814	
HIGHEST ANNUAL MEAN					7154	1982
LOWEST ANNUAL MEAN					115	1956
HIGHEST DAILY MEAN	9700	May 31	11900	Jun 5	103000	Apr 26 1942
LOWEST DAILY MEAN	394	Dec 26	343	Aug 30	10	Oct 1 1953
ANNUAL SEVEN-DAY MINIMUM	399	Dec 25	345	Aug 24	26	Apr 12 1935
INSTANTANEOUS PEAK FLOW			13200	Jun 11	111000	Apr 26 1942
INSTANTANEOUS PEAK STAGE			33.66	Jun 11	47.10	May 3 1990
ANNUAL RUNOFF (AC-FT)	663900		638700		1314000	
10 PERCENT EXCEEDS	1520		1770		5200	
50 PERCENT EXCEEDS	672		458		421	
90 PERCENT EXCEEDS	443		363		111	

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



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 current year.
BIOCHEMICAL DATA: Feb 1984 to Sep 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.--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. 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, Feb 12, 1988; minimum, 93 microsiemens, Oct 20, 1984.
pH: Maximum, 8.5 units, May 13, 2000; minimum, 6.8 units, Sep 6, 1988, Mar 17-18, 1998.
WATER TEMPERATURE: Maximum, 33.5°C, Aug 12, 1987; minimum, 5.0°C, Feb 7, 8, 1989.
DISSOLVED OXYGEN: Maximum, 13.7 mg/L, Feb 8, 1989; minimum, 0.0 mg/L, Jul 21, 1985.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 905 microsiemens, Jul 28; minimum, 187 microsiemens, Mar 29.
pH: Maximum, 8.5 units, May 13; minimum, 6.9 units, May 10.
WATER TEMPERATURE: Maximum, 32.8°C, Jul 15; minimum, 8.1°C, Jan 28.
DISSOLVED OXYGEN: Maximum, 10.6 mg/L, Jan 6, Mar 15; minimum, 1.1 mg/L, May 21, 22.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	710	705	708	512	501	503	609	604	606	780	756	772
2	721	709	715	553	512	539	617	607	610	756	689	704
3	722	716	718	563	547	553	624	616	620	736	690	705
4	718	693	706	579	562	570	627	537	605	758	736	743
5	695	681	689	606	577	590	614	557	589	755	738	745
6	684	661	672	607	603	605	611	561	598	778	748	760
7	---	---	e702	621	603	609	629	611	617	787	585	751
8	---	---	e756	622	605	613	641	629	635	640	484	554
9	775	663	749	610	600	604	630	423	562	508	461	475
10	699	655	675	614	604	609	601	552	573	581	494	550
11	711	688	700	614	599	608	614	416	571	651	579	613
12	722	696	712	632	600	617	515	410	444	698	651	680
13	722	693	702	632	623	628	474	445	458	732	688	709
14	723	692	705	623	612	617	548	474	527	761	724	738
15	710	692	700	612	600	606	603	542	567	763	754	758
16	719	700	714	612	604	609	651	603	635	789	763	774
17	725	706	719	618	601	610	676	651	670	791	769	780
18	706	579	656	606	599	603	675	407	510	779	764	773
19	608	499	557	603	596	599	591	480	524	778	753	768
20	526	496	507	608	600	603	600	496	558	777	762	771
21	532	498	515	622	601	613	649	600	629	777	761	771
22	570	532	555	619	402	586	720	638	683	762	748	755
23	584	557	568	536	470	508	728	701	714	782	752	765
24	616	583	596	577	522	560	756	722	737	776	756	766
25	612	588	599	604	573	593	754	743	748	778	761	767
26	619	597	607	596	586	594	744	731	736	789	773	781
27	627	619	624	596	582	588	736	717	725	789	586	703
28	629	612	624	604	591	596	754	736	744	593	543	567
29	624	371	596	609	604	606	754	736	743	573	539	559
30	622	479	547	610	604	608	774	741	752	601	555	584
31	544	479	508	---	---	---	779	771	775	654	601	634
MONTH	---	---	648	632	402	592	779	407	628	791	461	702

08057055 TRINITY RIVER AT CEDAR CREST BOULEVARD, DALLAS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	708	649	686	852	825	839	625	439	584	827	215	449
2	722	689	708	842	802	833	650	561	616	502	396	431
3	741	701	719	820	751	786	609	562	580	524	372	468
4	746	723	736	789	751	772	640	559	593	455	431	445
5	769	730	745	807	789	797	676	640	660	553	444	487
6	753	651	727	799	781	793	741	676	714	644	553	604
7	673	642	656	796	776	789	767	741	754	695	644	677
8	701	671	684	777	758	772	798	755	774	744	692	724
9	771	701	735	766	755	760	821	790	804	757	739	749
10	769	752	757	771	668	734	815	792	801	771	738	752
11	790	755	774	738	686	703	805	486	763	793	770	784
12	796	781	787	699	670	680	578	483	521	790	742	767
13	790	767	780	674	667	672	514	449	472	803	735	764
14	767	735	749	686	673	681	631	514	579	841	803	821
15	806	746	763	724	680	706	669	631	648	840	819	827
16	818	797	810	742	640	718	669	406	466	837	808	825
17	817	782	796	761	640	725	490	434	462	852	822	834
18	802	788	795	787	758	773	589	484	540	848	798	829
19	801	785	792	799	762	781	827	589	726	798	255	479
20	795	782	787	802	770	785	854	827	842	526	408	449
21	787	776	779	802	601	760	889	789	837	499	451	474
22	811	481	776	630	478	538	827	786	807	627	499	582
23	636	390	472	598	555	584	809	781	796	689	615	650
24	554	442	486	632	577	613	824	783	803	754	689	730
25	660	554	613	682	632	662	825	799	814	819	737	773
26	659	434	486	698	610	661	820	793	804	834	816	826
27	586	481	526	695	558	609	822	780	798	831	746	819
28	737	586	680	610	260	558	839	821	830	824	758	808
29	825	737	774	482	187	333	844	834	839	768	741	754
30	---	---	---	508	360	442	853	827	846	805	768	785
31	---	---	---	587	508	562	---	---	---	800	786	794
MONTH	825	390	710	852	187	691	889	406	702	852	215	683

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	812	787	798	752	704	736	851	833	839	874	845	859
2	827	796	812	782	745	764	871	851	862	882	862	871
3	828	744	790	752	707	733	872	841	855	900	861	877
4	784	288	449	766	709	744	893	858	872	888	790	861
5	331	260	299	772	735	754	889	875	882	868	792	843
6	393	331	360	774	731	752	893	872	882	865	841	846
7	401	362	375	799	762	781	885	857	871	864	841	855
8	391	373	383	804	774	790	857	838	844	857	829	842
9	431	383	404	810	781	797	857	838	847	850	821	834
10	417	293	375	806	784	794	847	831	839	850	825	836
11	342	241	290	840	784	807	860	836	846	845	822	832
12	374	304	338	854	836	844	876	853	863	834	283	695
13	424	374	401	848	821	835	871	861	866	826	568	765
14	460	278	415	842	831	837	864	848	854	805	787	794
15	351	261	306	846	834	839	848	831	837	822	783	801
16	411	299	359	844	772	819	860	848	854	837	810	823
17	458	290	410	786	767	775	854	827	837	852	821	834
18	429	336	395	829	786	802	887	824	846	844	821	828
19	467	404	438	829	799	812	895	870	882	829	806	818
20	513	451	476	842	814	831	876	858	865	846	825	833
21	495	406	487	862	827	840	858	838	846	853	818	834
22	516	406	496	859	845	850	859	824	834	846	809	825
23	607	505	540	866	829	857	877	848	863	860	819	836
24	663	559	597	856	792	812	850	836	843	835	701	792
25	690	569	630	839	795	820	872	835	850	792	706	736
26	649	535	568	870	839	855	877	861	870	814	753	788
27	699	254	602	882	846	862	878	860	869	809	789	800
28	697	434	539	905	863	881	869	846	851	790	771	781
29	561	501	521	902	884	890	856	836	845	808	781	794
30	704	561	642	888	846	872	885	856	871	801	795	797
31	---	---	---	851	833	844	885	850	869	---	---	---
MONTH	828	241	483	905	704	814	895	824	857	900	283	818

e Estimated

08057055 TRINITY RIVER AT CEDAR CREST BOULEVARD, DALLAS, TX--Continued

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

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.7	7.6	7.5	7.2	8.0	7.9	7.5	7.4	7.8	7.6	8.1	8.0
2	7.9	7.6	7.4	7.1	7.9	7.7	7.6	7.5	7.9	7.6	8.1	7.9
3	7.8	7.6	7.2	7.1	7.8	7.6	8.2	7.5	7.9	7.7	8.1	8.0
4	7.7	7.6	7.2	7.1	7.7	7.3	8.1	7.9	7.8	7.6	8.2	7.9
5	7.7	7.6	7.2	7.1	7.6	7.3	8.1	7.9	7.8	7.6	8.1	7.9
6	7.8	7.7	7.1	7.1	7.5	7.4	8.0	7.8	7.9	7.6	8.1	8.0
7	7.8	7.7	7.1	7.1	7.6	7.4	7.9	7.8	7.8	7.6	8.2	8.0
8	8.1	7.8	7.2	7.0	7.6	7.5	7.8	7.7	7.8	7.6	8.4	7.6
9	8.1	7.9	7.2	7.0	7.6	7.5	7.8	7.7	7.8	7.6	7.7	7.6
10	8.0	7.9	7.1	6.9	7.6	7.4	7.8	7.6	7.7	7.5	7.8	7.6
11	8.0	7.8	---	---	7.5	7.3	7.7	7.6	7.8	7.5	7.8	7.6
12	7.9	7.7	---	---	7.5	7.3	7.6	7.5	7.8	7.6	7.7	7.0
13	7.7	7.6	8.5	8.0	7.5	7.3	7.8	7.4	7.8	7.6	7.3	7.0
14	7.6	7.6	8.3	8.0	7.5	7.4	7.8	7.6	7.8	7.6	7.5	7.3
15	7.7	7.6	8.0	7.8	7.6	7.4	7.8	7.7	7.8	7.6	7.4	7.3
16	7.8	7.6	7.9	7.6	7.5	7.4	7.7	7.7	7.8	7.6	7.4	7.3
17	7.8	7.7	7.9	7.6	7.6	7.5	7.9	7.7	7.8	7.6	7.5	7.3
18	7.8	7.6	7.8	7.5	7.5	7.4	8.0	7.8	7.8	7.5	7.5	7.3
19	7.8	7.6	7.7	7.5	7.6	7.4	8.0	7.8	7.8	7.6	7.4	7.3
20	7.8	7.6	7.5	7.4	7.8	7.6	7.9	7.7	7.9	7.6	7.5	7.3
21	7.7	7.6	7.4	7.3	7.9	7.5	7.9	7.7	7.7	7.6	7.5	7.3
22	7.8	7.6	7.4	7.3	7.9	7.5	7.9	7.7	7.7	7.5	7.7	7.3
23	7.8	7.6	7.7	7.3	7.9	7.7	7.8	7.7	7.7	7.5	7.7	7.6
24	8.0	7.7	8.1	7.6	8.0	7.6	7.9	7.7	7.8	7.5	7.7	7.4
25	8.0	7.7	8.4	7.8	8.0	7.7	7.9	7.7	7.7	7.5	7.7	7.6
26	8.0	7.6	8.3	8.0	8.1	7.6	7.8	7.6	7.7	7.5	7.6	7.5
27	7.8	7.5	8.0	7.8	8.1	7.7	7.7	7.6	7.8	7.5	7.6	7.5
28	7.7	7.4	7.9	7.8	7.7	7.4	7.8	7.6	7.8	7.5	7.7	7.5
29	7.7	7.4	7.9	7.8	7.4	7.3	7.7	7.6	7.7	7.5	7.7	7.6
30	7.6	7.4	7.9	7.7	7.5	7.4	7.8	7.6	7.6	7.5	7.7	7.6
31	---	---	8.0	7.8	---	---	7.9	7.6	8.0	7.4	---	---
MONTH	8.1	7.4	---	---	8.1	7.3	8.2	7.4	8.0	7.4	8.4	7.0

08057055 TRINITY RIVER AT CEDAR CREST BOULEVARD, DALLAS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.9	23.4	24.1	19.6	18.8	19.2	17.7	17.0	17.3	17.3	15.5	16.3
2	25.6	23.6	24.5	19.6	18.0	18.8	19.1	17.5	18.3	17.0	16.3	16.6
3	26.8	24.5	25.5	18.3	17.4	17.8	20.5	19.0	19.7	17.4	15.7	16.8
4	26.2	24.6	25.3	19.3	17.8	18.5	20.2	18.9	19.9	15.7	14.0	14.7
5	25.5	23.8	24.5	20.8	19.0	20.0	18.9	15.8	17.0	14.6	13.5	14.1
6	25.3	24.0	24.5	21.7	20.5	21.1	16.5	15.2	15.8	15.2	13.3	14.2
7	24.6	23.5	24.0	22.3	21.1	21.6	16.2	15.1	15.8	16.1	14.1	15.4
8	25.2	23.9	24.5	23.0	21.7	22.2	17.7	16.1	16.9	14.4	12.6	13.4
9	25.8	24.3	24.9	22.3	21.3	21.7	17.8	15.8	16.9	12.9	11.4	12.1
10	25.7	24.1	24.8	22.7	21.2	21.9	15.9	14.8	15.4	14.2	12.8	13.4
11	26.2	24.9	25.4	23.0	21.7	22.2	15.9	11.9	15.1	15.3	13.7	14.4
12	26.8	25.0	25.8	23.4	21.8	22.4	13.2	11.8	12.4	17.7	14.8	16.3
13	26.8	25.0	25.8	23.0	21.9	22.4	12.4	11.7	11.9	17.4	16.2	17.0
14	26.7	25.1	25.8	22.9	21.4	22.0	13.2	12.2	12.6	16.3	15.3	15.9
15	26.5	25.0	25.7	22.6	21.4	21.9	13.3	12.0	12.7	16.6	15.2	15.9
16	26.4	25.2	25.7	22.4	21.2	21.7	13.8	12.8	13.2	18.1	16.2	17.1
17	25.8	22.3	24.0	21.8	20.9	21.3	14.4	13.1	13.7	19.2	17.4	18.2
18	22.3	20.2	21.4	21.7	20.6	21.1	14.5	12.9	13.5	19.5	18.4	18.9
19	20.5	19.8	20.1	21.8	20.8	21.3	14.4	13.1	13.6	19.1	17.9	18.5
20	20.5	19.7	20.0	20.8	19.6	20.2	13.7	12.8	13.3	18.2	15.9	17.1
21	20.9	19.5	20.2	20.6	19.4	19.9	13.8	12.5	13.0	15.9	15.0	15.4
22	21.9	20.5	21.1	21.4	18.8	20.6	14.2	12.5	13.3	16.6	14.9	15.8
23	21.8	20.6	21.2	20.7	18.8	19.4	14.6	13.1	13.8	17.4	15.9	16.5
24	21.5	20.2	20.7	18.8	17.8	18.2	15.2	13.6	14.3	16.2	15.0	15.6
25	21.5	20.1	20.7	18.4	17.3	17.9	15.4	13.7	14.5	15.8	14.8	15.2
26	22.8	20.8	21.6	17.9	16.9	17.3	15.6	14.1	14.7	14.9	13.3	14.0
27	22.9	21.4	22.1	18.0	16.6	17.2	16.0	14.4	15.1	13.3	8.4	10.9
28	23.2	22.1	22.6	18.8	17.3	18.0	15.9	14.2	14.9	9.2	8.1	8.7
29	23.2	21.9	22.6	19.2	17.9	18.5	16.5	14.7	15.5	8.9	8.5	8.7
30	22.7	19.0	20.9	18.5	17.4	17.9	16.9	15.4	16.2	10.6	8.7	9.6
31	19.9	18.8	19.1	---	---	---	16.9	15.2	16.0	12.2	10.1	11.3
MONTH	26.8	18.8	23.2	23.4	16.6	20.1	20.5	11.7	15.0	19.5	8.1	14.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.8	11.8	13.0	19.5	18.5	18.9	19.8	19.0	19.4	23.3	19.4	20.9
2	14.4	12.6	13.4	18.9	18.6	18.8	19.2	18.1	18.6	22.8	20.4	21.3
3	15.4	13.2	14.2	18.6	16.3	17.4	18.7	17.7	18.3	22.7	20.2	21.5
4	15.1	13.6	14.4	17.4	15.8	16.6	19.1	17.0	18.0	21.6	19.8	20.9
5	14.2	13.2	13.6	17.8	16.7	17.3	20.5	18.5	19.3	21.7	20.6	21.2
6	14.6	13.3	13.8	19.4	17.5	18.5	22.1	19.6	20.6	23.2	21.6	22.4
7	15.4	13.3	14.2	20.1	19.0	19.6	23.5	21.3	22.1	25.7	23.1	24.2
8	16.6	14.6	15.4	20.5	19.5	19.9	21.9	20.2	20.9	26.9	24.8	25.6
9	17.3	15.0	16.1	20.8	19.3	19.9	21.0	19.4	20.2	26.0	25.0	25.5
10	18.9	16.9	17.7	19.9	17.4	18.8	20.2	19.6	19.9	25.4	23.9	24.7
11	18.7	17.5	18.2	17.6	15.7	16.7	21.7	19.5	20.5	26.8	24.9	25.7
12	17.6	16.7	17.2	17.3	16.0	16.8	20.3	18.5	19.0	27.5	26.0	26.6
13	18.3	16.8	17.5	18.2	16.3	17.3	19.3	17.7	18.4	26.6	25.5	26.1
14	17.3	16.2	16.7	18.3	17.9	18.1	19.6	18.7	19.2	26.1	24.1	25.1
15	18.3	16.1	17.1	19.9	18.1	19.0	20.9	19.2	20.0	26.1	24.4	25.2
16	19.4	18.0	18.7	20.7	18.0	20.0	20.7	13.4	18.1	26.9	25.2	25.8
17	19.8	18.9	19.3	18.1	16.9	17.6	20.0	18.6	19.3	26.8	25.3	26.0
18	20.2	18.6	19.7	17.9	16.4	17.0	22.6	20.0	21.1	26.5	25.6	26.0
19	18.6	16.9	17.6	18.3	16.5	17.3	23.9	22.6	23.3	25.7	22.6	23.5
20	17.7	16.3	17.0	19.2	16.8	18.0	24.1	22.6	23.3	23.7	21.9	22.8
21	18.0	16.6	17.3	18.5	17.1	18.1	24.1	22.5	23.2	25.1	22.9	23.9
22	18.7	16.7	17.9	17.5	16.2	16.7	23.5	22.2	22.8	27.6	25.0	26.1
23	17.4	15.7	16.3	18.0	17.4	17.7	24.4	22.4	23.2	28.4	26.3	27.2
24	17.4	16.0	16.4	20.2	17.4	18.6	24.1	22.7	23.3	29.3	27.1	28.1
25	19.6	17.4	18.4	21.4	20.1	20.8	25.0	22.6	23.7	29.7	28.0	28.7
26	19.6	17.8	18.1	23.0	20.9	21.7	25.5	23.5	24.4	29.0	28.0	28.5
27	17.9	16.8	17.4	22.1	21.3	21.8	24.6	23.2	23.8	28.9	27.3	27.9
28	18.3	17.1	17.7	22.9	21.0	21.9	24.8	22.5	23.5	29.0	27.3	28.0
29	19.4	17.8	18.6	22.3	19.0	21.0	24.7	23.2	23.9	29.1	27.4	28.2
30	---	---	---	21.1	19.6	20.2	24.1	23.3	23.8	29.9	28.3	29.0
31	---	---	---	19.8	19.0	19.5	---	---	---	30.1	28.5	29.2
MONTH	20.2	11.8	16.7	23.0	15.7	18.8	25.5	13.4	21.2	30.1	19.4	25.3

08057055 TRINITY RIVER AT CEDAR CREST BOULEVARD, DALLAS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.6	28.5	29.1	28.5	27.3	27.9	30.8	29.5	30.0	32.0	30.4	31.0
2	29.5	28.2	28.8	29.3	27.8	28.4	31.4	29.2	30.1	32.2	30.4	31.2
3	28.9	27.4	28.1	30.0	28.3	29.0	31.6	29.3	30.4	32.5	30.5	31.3
4	27.4	24.6	26.0	30.3	28.5	29.3	31.6	29.7	30.5	32.5	30.6	31.4
5	26.2	24.5	25.4	30.7	28.8	29.6	31.6	29.9	30.6	31.5	30.3	30.9
6	26.6	25.5	26.0	30.8	29.2	29.9	31.6	29.7	30.5	30.7	29.0	29.8
7	26.8	25.3	26.0	31.3	29.6	30.3	31.5	29.7	30.5	30.6	28.9	29.6
8	26.3	25.0	25.7	31.6	29.8	30.6	31.6	29.7	30.5	29.3	23.5	28.6
9	26.7	25.6	26.2	31.7	30.3	30.9	31.2	29.7	30.3	29.9	28.1	28.8
10	26.4	25.4	26.0	31.5	29.9	30.6	31.6	29.7	30.5	30.4	28.6	29.4
11	25.4	23.9	24.8	31.6	29.7	30.5	31.7	29.8	30.7	31.3	29.0	30.1
12	26.2	24.9	25.4	31.8	29.8	30.7	31.9	30.2	30.9	30.2	25.8	28.6
13	27.4	26.1	26.7	31.9	30.3	31.0	31.3	30.0	30.6	29.1	27.1	28.2
14	27.4	25.3	26.6	32.7	30.8	31.5	30.8	29.2	29.9	30.6	28.3	29.3
15	25.6	24.7	25.2	32.8	31.0	31.8	31.2	29.5	30.2	30.4	28.9	29.6
16	27.5	25.1	26.3	31.8	31.0	31.5	31.8	29.7	30.6	29.1	27.8	28.4
17	27.6	26.7	27.2	31.1	30.2	30.6	32.0	30.0	30.8	28.5	26.8	27.5
18	27.0	26.7	26.9	31.5	29.8	30.5	32.0	30.2	31.0	28.1	26.1	27.0
19	27.8	26.7	27.2	31.9	29.9	30.7	31.7	30.1	30.8	28.0	26.2	27.0
20	28.4	27.3	27.8	32.1	30.2	31.0	31.2	29.5	30.3	28.6	26.4	27.4
21	28.7	27.0	27.9	32.0	30.3	31.0	31.2	29.4	30.2	27.9	26.4	27.1
22	28.9	27.0	27.9	31.8	30.4	30.9	31.4	29.6	30.3	28.8	27.0	27.8
23	29.5	28.6	29.0	30.9	29.7	30.3	31.4	29.7	30.4	29.5	27.7	28.5
24	29.5	28.0	28.8	30.5	28.9	29.6	31.7	29.7	30.5	28.8	25.5	27.3
25	29.8	28.1	29.0	30.2	28.4	29.2	31.7	29.8	30.7	25.5	23.1	23.9
26	29.8	28.4	28.9	30.8	28.4	29.5	31.9	30.0	30.8	24.6	22.7	23.5
27	29.3	26.6	28.1	30.0	29.0	29.6	31.6	29.9	30.6	25.3	23.0	24.0
28	29.3	28.0	28.7	30.5	28.3	29.3	31.5	29.7	30.5	25.6	23.5	24.4
29	29.0	28.0	28.4	30.1	28.9	29.4	31.6	29.7	30.5	25.9	23.9	24.7
30	28.4	27.9	28.2	30.6	28.7	29.5	31.7	29.8	30.6	26.0	24.0	24.9
31	---	---	---	30.7	28.9	29.7	32.0	29.9	30.7	---	---	---
MONTH	29.8	23.9	27.2	32.8	27.3	30.1	32.0	29.2	30.5	32.5	22.7	28.0
YEAR	32.8	8.1	22.6									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.0	7.5	6.7	5.7	6.1	7.7	6.8	7.3	9.2	8.2	8.8
2	7.6	6.7	7.2	7.2	6.5	6.9	7.2	3.7	5.7	9.4	9.0	9.2
3	7.7	5.9	6.9	7.8	6.7	7.4	6.5	4.2	5.3	9.5	9.0	9.2
4	7.4	6.5	6.9	8.1	7.3	7.7	4.7	2.0	2.9	10.1	9.2	9.6
5	---	---	---	7.7	6.9	7.3	2.8	2.1	2.5	10.4	9.5	10.0
6	---	---	---	7.8	7.0	7.4	4.8	2.2	3.3	10.6	9.4	10.0
7	---	---	---	7.2	6.6	6.8	6.9	2.9	5.0	9.6	8.4	9.0
8	6.6	5.7	6.2	7.0	6.2	6.5	4.1	2.0	3.3	---	---	---
9	6.5	5.8	6.1	6.5	5.4	6.0	4.7	2.2	3.3	---	---	---
10	6.4	5.3	5.9	6.2	5.2	5.6	6.3	2.6	4.4	---	---	---
11	6.4	5.8	6.0	6.3	5.0	5.6	---	---	---	6.9	5.7	6.3
12	6.7	5.9	6.2	6.9	5.6	6.1	---	---	---	5.7	4.7	5.2
13	7.0	6.0	6.4	6.9	6.1	6.6	---	---	---	---	---	---
14	6.5	5.7	6.0	6.3	5.4	5.8	---	---	---	---	---	---
15	6.3	5.7	6.0	6.9	5.9	6.3	---	---	---	---	---	---
16	6.4	5.6	6.0	6.5	5.8	6.1	10.3	9.3	9.8	---	---	---
17	6.0	5.6	5.8	6.8	5.6	6.1	9.9	8.7	9.3	---	---	---
18	6.4	5.7	6.0	6.3	5.4	5.9	8.9	7.0	8.1	---	---	---
19	6.2	5.3	5.7	7.2	5.4	6.3	---	---	---	---	---	---
20	6.1	5.3	5.7	7.7	6.6	7.2	---	---	---	9.2	8.2	8.6
21	6.3	5.8	6.1	7.5	6.8	7.2	---	---	---	9.3	8.5	8.9
22	---	---	---	7.5	2.9	6.7	9.1	8.5	8.8	9.0	8.4	8.7
23	---	---	---	6.3	1.6	2.0	9.0	8.4	8.8	8.8	8.2	8.5
24	---	---	---	2.6	1.5	1.8	8.9	8.6	8.8	8.6	7.9	8.3
25	---	---	---	2.7	1.4	1.8	9.0	8.7	8.9	8.6	7.7	8.2
26	8.1	7.8	7.9	4.7	1.4	2.5	9.1	9.0	9.1	8.4	7.7	8.2
27	7.8	7.5	7.6	6.9	3.0	4.9	9.3	9.0	9.1	10.2	7.7	9.0
28	7.7	7.4	7.6	6.6	5.5	6.0	9.3	9.0	9.2	10.3	9.8	10.0
29	7.7	7.3	7.5	6.7	5.3	5.9	9.2	8.3	9.0	10.1	9.9	10.0
30	7.6	6.7	7.2	7.6	6.4	7.0	9.0	8.3	8.8	10.1	9.6	9.7
31	7.4	5.9	6.5	---	---	---	9.1	8.5	8.8	9.6	9.0	9.3
MONTH	---	---	---	8.1	1.4	5.8	---	---	---	---	---	---

08057055 TRINITY RIVER AT CEDAR CREST BOULEVARD, DALLAS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.0	8.3	8.6	---	---	---	8.1	7.3	7.6	---	---	---
2	8.7	8.4	8.5	8.2	7.8	8.0	---	---	---	---	---	---
3	8.8	8.5	8.6	8.4	7.6	8.0	8.9	7.3	8.2	---	---	---
4	9.2	8.4	8.7	8.7	8.1	8.4	7.8	6.9	7.4	---	---	---
5	9.5	8.9	9.1	8.7	8.1	8.4	8.0	7.1	7.6	---	---	---
6	9.5	8.5	9.0	8.8	8.2	8.5	7.9	7.1	7.5	---	---	---
7	9.6	8.9	9.3	8.6	7.9	8.2	7.5	7.2	7.3	---	---	---
8	9.7	8.4	9.0	8.9	7.9	8.3	9.0	7.1	7.9	---	---	---
9	9.2	8.0	8.7	9.0	7.9	8.4	7.9	2.6	6.8	---	---	---
10	8.3	7.4	7.9	8.4	7.0	7.5	7.0	3.2	5.7	---	---	---
11	8.4	7.2	7.7	7.3	3.4	5.6	8.3	5.0	6.7	---	---	---
12	9.3	7.4	8.2	---	---	---	---	---	---	---	---	---
13	9.1	7.6	8.3	---	---	---	---	---	---	8.5	6.3	7.2
14	---	---	---	---	---	---	---	---	---	7.8	6.3	7.0
15	---	---	---	10.6	9.1	9.7	---	---	---	6.6	5.4	5.9
16	---	---	---	9.7	8.5	9.1	---	---	---	6.3	4.8	5.5
17	---	---	---	8.9	8.1	8.4	---	---	---	6.1	5.0	5.5
18	---	---	---	9.5	8.5	9.1	---	---	---	6.0	4.9	5.4
19	---	---	---	9.7	8.9	9.3	---	---	---	5.3	2.0	3.7
20	---	---	---	9.9	9.0	9.4	---	---	---	3.8	1.2	1.9
21	---	---	---	9.7	8.6	9.2	---	---	---	1.2	1.1	1.1
22	---	---	---	9.6	8.5	9.1	9.3	7.5	8.3	3.0	1.1	1.6
23	9.4	7.4	8.4	9.5	8.8	9.0	9.3	7.6	8.3	---	---	---
24	7.9	6.8	7.5	9.6	8.6	9.0	9.7	7.4	8.4	---	---	---
25	6.9	6.1	6.5	9.5	8.4	8.9	9.7	7.5	8.6	---	---	---
26	6.3	5.3	5.6	9.4	8.5	9.0	8.7	7.2	7.5	---	---	---
27	5.3	4.8	5.0	9.1	8.0	8.4	7.2	3.8	5.4	---	---	---
28	4.8	4.1	4.5	9.0	6.6	8.4	5.6	2.7	4.3	---	---	---
29	4.1	3.5	3.8	8.4	3.6	6.7	3.7	1.9	2.6	---	---	---
30	---	---	---	8.4	2.0	5.3	2.9	1.4	1.8	---	---	---
31	---	---	---	9.1	7.2	8.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	6.6	5.2	5.8
2	---	---	---	---	---	---	---	---	---	6.9	6.1	6.5
3	8.0	6.1	6.7	---	---	---	---	---	---	7.5	6.4	6.8
4	6.7	2.0	5.1	---	---	---	7.0	3.2	5.5	7.7	6.1	6.9
5	5.0	4.5	4.9	---	---	---	5.7	2.8	4.4	7.3	6.3	6.8
6	6.0	4.6	5.0	---	---	---	6.8	4.7	6.4	7.1	6.0	6.6
7	6.4	5.8	6.0	8.7	7.1	7.6	6.8	6.1	6.4	7.3	6.1	6.6
8	6.6	6.3	6.5	7.1	6.1	6.7	6.7	6.0	6.3	7.4	6.3	6.8
9	6.6	5.8	6.3	6.6	6.0	6.2	6.8	5.9	6.4	---	---	---
10	6.0	2.4	4.5	7.1	6.0	6.6	7.0	6.0	6.5	---	---	---
11	6.8	5.9	6.3	7.1	3.2	6.3	7.0	6.0	6.5	---	---	---
12	5.9	5.1	5.3	5.5	3.2	4.5	7.1	6.1	6.6	6.5	1.6	5.4
13	6.0	5.2	5.7	7.2	1.4	4.2	7.1	5.9	6.5	4.8	1.4	3.5
14	6.1	5.3	5.7	6.8	6.0	6.4	7.4	6.2	6.9	6.1	2.2	5.1
15	6.4	5.5	6.0	---	---	---	7.5	6.6	7.1	6.4	5.3	5.5
16	6.0	5.1	5.5	---	---	---	7.3	6.2	6.8	6.9	6.1	6.5
17	6.7	5.7	6.1	---	---	---	7.8	6.8	7.4	7.3	6.0	6.7
18	6.3	5.9	6.2	8.9	7.6	8.4	7.6	6.1	6.9	7.4	5.6	6.5
19	6.6	5.6	6.0	8.9	7.4	8.1	7.5	6.1	6.8	7.4	6.0	6.7
20	7.0	5.6	6.5	8.4	7.4	7.9	7.5	6.2	6.9	---	---	---
21	7.6	6.0	6.8	8.4	6.8	7.5	7.6	6.6	7.0	---	---	---
22	7.5	6.3	6.8	8.0	6.8	7.4	7.7	6.7	7.2	---	---	---
23	8.0	2.9	6.8	7.4	7.0	7.2	7.8	6.7	7.2	7.5	6.6	7.0
24	---	---	---	7.6	6.3	6.9	7.8	6.7	7.3	7.6	6.3	7.0
25	---	---	---	6.9	6.2	6.6	7.9	6.8	7.4	7.8	6.0	6.9
26	---	---	---	6.9	6.0	6.4	7.9	6.7	7.4	7.6	6.2	6.9
27	---	---	---	6.8	5.9	6.4	7.9	6.4	7.2	7.9	6.4	7.1
28	---	---	---	6.8	6.1	6.4	---	---	---	8.2	7.0	7.6
29	---	---	---	6.8	6.0	6.5	---	---	---	8.6	6.7	7.6
30	---	---	---	6.9	6.0	6.5	---	---	---	8.5	6.5	7.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08057200 WHITE ROCK CREEK AT GREENVILLE AVENUE, DALLAS, TX

LOCATION.--Lat 32°53′21", long 96°45′23", Dallas County, Hydrologic Unit 12030l05, 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 Sep 1980, Apr 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level. Prior to Oct 24, 1961, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. No known regulation. Low flow is affected by diversions from small dams upstream from station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 22	2230	9,890	86.03	May 1	0230	7,070	85.03
Dec 12	0215	7,630	85.25	May 19	0100	6,930	84.97
Feb 23	0115	10,600	86.23	Jun 11	1415	23,600	88.91
Feb 26	0130	6,580	84.81	Jun 17	1630	19,300	88.20

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	38	26	21	40	42	102	1270	19	e26	13	13
2	14	29	23	23	35	125	70	64	17	e24	14	14
3	14	27	21	29	33	226	44	146	42	e22	15	e15
4	15	24	128	22	32	46	36	e80	601	e22	14	e14
5	16	22	38	20	30	40	34	e70	68	e22	11	e14
6	14	22	25	19	29	39	32	e60	46	21	11	e14
7	12	23	22	120	30	36	31	e50	38	19	12	e14
8	10	22	23	263	28	40	26	e40	33	18	12	14
9	238	21	253	52	27	33	27	e30	51	17	11	17
10	41	21	47	39	27	220	27	e34	113	13	11	20
11	31	23	740	33	27	61	392	31	4750	13	11	19
12	34	22	2080	31	26	42	329	29	199	12	12	e19
13	23	20	106	28	27	39	66	25	93	12	10	e20
14	24	e19	59	27	25	45	51	22	507	11	10	e21
15	23	e18	46	28	26	42	45	21	458	12	12	22
16	24	15	38	28	26	36	182	20	147	11	11	19
17	23	16	34	28	28	33	51	18	2510	9.7	12	18
18	71	16	105	27	28	33	42	46	231	12	8.8	20
19	176	16	e28	27	26	32	40	860	138	8.7	8.3	19
20	42	16	e33	24	25	30	36	135	104	7.9	9.2	19
21	37	17	29	25	25	113	31	48	219	8.3	12	17
22	28	938	27	26	176	182	31	37	156	8.1	8.8	17
23	14	364	27	25	1540	60	32	32	80	12	8.7	19
24	25	41	27	24	66	49	27	27	64	12	9.0	39
25	23	35	24	23	e400	44	28	24	57	9.5	13	29
26	21	30	23	24	851	62	25	22	51	11	9.4	23
27	21	28	23	318	68	38	38	87	60	9.9	9.5	23
28	21	29	22	94	55	223	31	63	63	12	9.0	23
29	20	27	23	47	48	86	30	33	e30	22	8.5	22
30	400	26	23	44	---	43	37	26	e28	24	6.9	20
31	69	---	21	44	---	37	---	22	---	19	9.6	---
MEAN	49.6	65.5	134	51.1	131	70.2	65.8	112	366	14.9	10.7	19.2
MAX	400	938	2080	318	1540	226	392	1270	4750	26	15	39
MIN	10	15	21	19	25	30	25	18	17	7.9	6.9	13

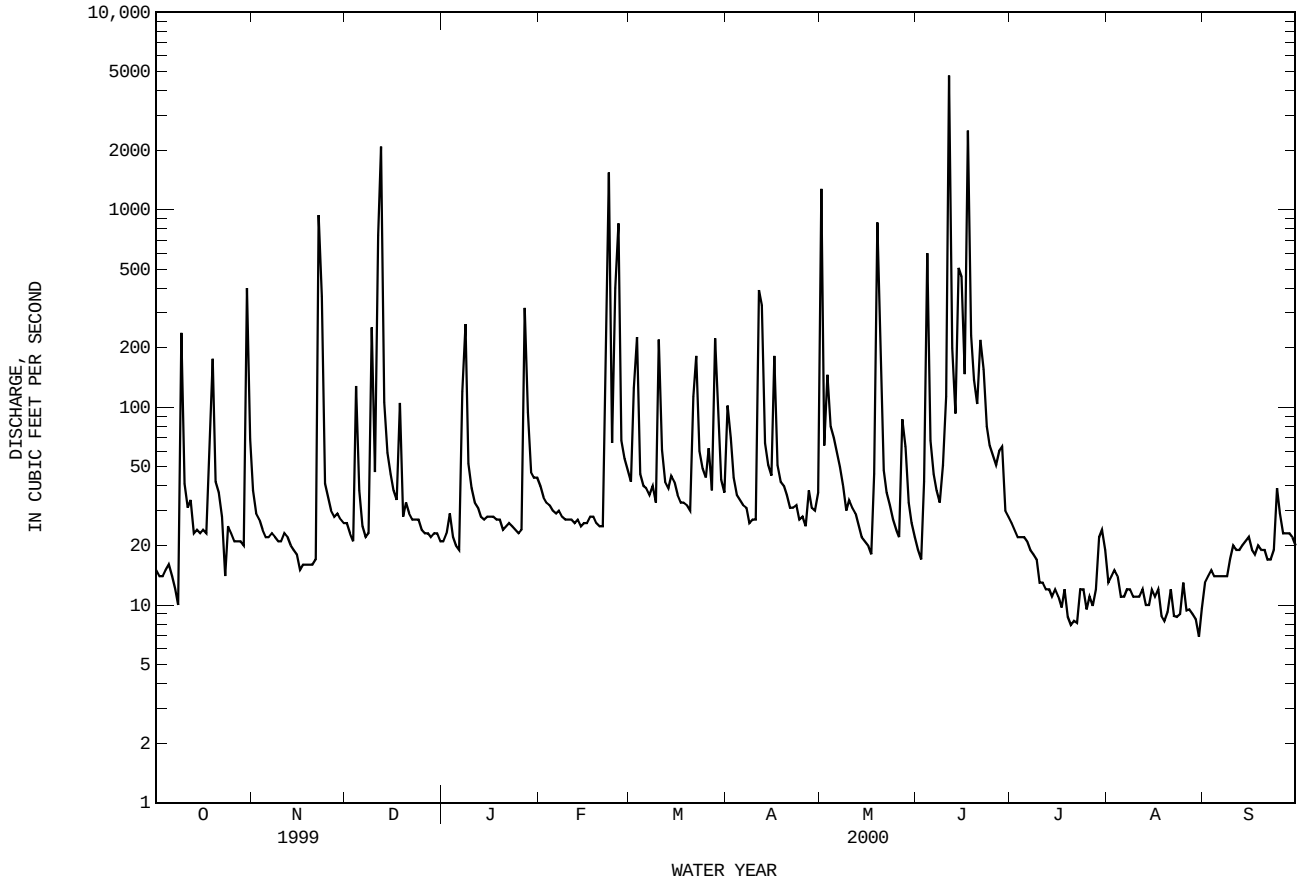
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000h, BY WATER YEAR (WY)

MEAN	86.5	62.6	91.3	54.6	87.6	106	121	154	95.7	37.3	24.9	57.6
MAX	450	362	627	394	330	480	690	460	800	252	108	624
(WY)	1995	1995	1992	1998	1990	1995	1966	1990	1989	1962	1994	1964
MIN	.83	2.96	4.35	5.85	6.19	12.0	16.6	15.8	7.25	.78	1.26	.92
(WY)	1964	1964	1964	1976	1967	1971	1971	1972	1980	1964	1963	1963

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000h	
ANNUAL MEAN	90.9		90.2		82.5	
HIGHEST ANNUAL MEAN					196	1995
LOWEST ANNUAL MEAN					20.8	1971
HIGHEST DAILY MEAN	2080	Dec 12	4750	Jun 11	14700	Sep 21 1964
LOWEST DAILY MEAN	5.8	Jul 31	6.9	Aug 30	.01	Jul 8 1970
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 28	9.3	Aug 18	.21	Aug 21 1961
INSTANTANEOUS PEAK FLOW			23600	Jun 11	39200	May 2 1990
INSTANTANEOUS PEAK STAGE			88.91	Jun 11	490.59	May 2 1990
10 PERCENT EXCEEDS	175		130		114	
50 PERCENT EXCEEDS	33		27		20	
90 PERCENT EXCEEDS	12		12		4.1	

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 1999 TO SEPTEMBER 2000

DATE	TIME	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)
OCT												
14...	0740	506	7.7	22.4	6.9	80	190	58	71.9	3.10	25.3	.8
NOV												
18...	0730	612	7.9	17.5	8.1	86	240	61	89.5	3.36	30.6	.9
DEC												
15...	0930	577	7.6	8.3	10.6	90	240	64	92.6	2.70	27.7	.8
JAN												
20...	0900	618	8.1	13.4	9.2	88	240	64	91.3	3.20	28.4	.8
FEB												
08...	1000	608	8.2	11.9	9.9	91	260	74	97.1	3.27	28.6	.8
MAR												
08...	0850	550	7.9	17.2	8.3	87	220	54	82.1	2.73	23.2	.7
29...	0700	343	7.7	20.3	6.7	76	--	--	--	--	--	--
APR												
12...	0930	308	7.9	17.2	8.9	93	120	21	44.1	1.49	11.0	.4
28...	0730	580	7.8	19.6	7.0	77	--	--	--	--	--	--
MAY												
10...	0845	685	7.9	21.6	7.3	84	250	72	94.4	3.12	25.6	.7
31...	0700	476	7.8	28.0	6.3	81	--	--	--	--	--	--
JUN												
13...	0900	486	7.9	23.9	7.4	89	190	31	72.4	2.20	17.8	.6
27...	0730	597	7.8	27.0	6.5	83	--	--	--	--	--	--
JUL												
12...	0840	595	8.0	28.9	7.6	100	210	56	79.2	3.36	33.1	1
AUG												
08...	0840	608	8.1	28.6	7.1	93	210	72	76.9	3.96	36.3	1
SEP												
12...	0850	604	7.9	28.1	5.9	76	200	65	72.3	3.81	34.5	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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)
OCT												
14...	5.0	130	61.4	33.8	.6	6.5	299	294	.836	.222	1.06	.880
NOV												
18...	4.9	180	68.8	41.0	.6	7.2	383	358	1.04	.054	1.09	<.020
DEC												
15...	3.5	180	68.5	35.3	.4	8.2	359	355	1.95	.019	1.96	.032
JAN												
20...	3.8	180	76.0	40.0	.6	3.4	382	362	1.88	.022	1.91	<.020
FEB												
08...	3.5	180	75.3	42.0	.5	2.9	384	372	2.08	.019	2.10	<.020
MAR												
08...	3.8	160	63.5	33.9	.5	6.4	350	323	2.00	.072	2.07	.154
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	3.6	95	29.3	13.4	.3	4.0	178	168	.803	.039	.842	.133
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
10...	4.1	180	67.1	36.3	.4	6.1	366	352	1.95	.030	1.98	<.020
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	3.9	160	52.0	20.4	.4	8.2	304	280	1.63	.040	1.67	.125
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	4.3	160	79.5	44.0	.6	7.2	371	352	1.37	.049	1.42	.043
AUG												
08...	5.7	140	78.2	50.7	.6	7.0	374	352	2.08	.030	2.11	.030
SEP												
12...	5.6	130	76.9	52.8	.6	7.1	356	338	1.08	.042	1.13	.069

08057200 WHITE ROCK CREEK AT GREENVILLE AVENUE, DALLAS, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT												
14...	2.5	.52	.38	1.3	1.4	.262	.212	.205	.629	50	99	20
NOV												
18...	1.6	--	--	.50	.55	.224	.205	.170	.521	142	100	E10
DEC												
15...	2.6	.62	.46	.49	.65	.156	.101	.091	.279	121	100	<10
JAN												
20...	2.4	--	--	.32	.50	.254	.196	.171	.524	18	99	10
FEB												
08...	2.6	--	--	.32	.46	.231	.183	.163	.500	10	100	10
MAR												
08...	3.2	.97	.57	.73	1.1	.333	.211	.208	.638	163	100	E10
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	1.7	.76	.47	.60	.89	.148	.055	.042	.129	40	98	10
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
10...	2.6	--	--	.45	.59	.232	.197	.146	.448	14	100	<10
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	2.5	.72	.50	.63	.84	.167	.086	.068	.209	57	99	<10
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	2.0	.53	.38	.42	.58	.260	.214	.197	.604	8	94	<10
AUG												
08...	2.7	.60	.46	.49	.62	.529	.514	.452	1.39	15	98	<10
SEP												
12...	1.8	.60	.49	.56	.67	.348	.309	.269	.825	24	98	<10

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
OCT												
14...	9	<.007	<.002	1.34	.022	E.072	<.004	<.003	<.002	<.006	.008	<.004
NOV												
18...	8	<.007	<.002	1.10	.021	E.059	<.004	<.003	<.002	<.006	E.003	<.004
DEC												
15...	16	<.007	<.002	2.28	E.014	E.035	<.004	<.003	<.002	<.006	.008	<.004
JAN												
20...	15	<.007	<.002	.680	.021	E.059	<.004	<.003	<.002	<.006	.005	<.004
FEB												
08...	16	<.007	<.002	.601	E.017	E.065	<.004	<.003	<.002	<.006	.007	<.004
MAR												
08...	14	<.007	<.002	1.48	.023	E.083	<.004	<.003	<.002	<.006	.012	<.004
29...	--	<.007	<.002	.887	.061	E.084	<.004	<.003	<.002	<.006	E.013	<.004
APR												
12...	4	<.007	<.002	1.41	.034	E.098	<.004	<.003	<.002	<.006	.021	<.004
28...	--	<.007	<.002	.328	.055	E.079	<.004	<.003	<.002	<.006	E.003	<.004
MAY												
10...	7	<.007	<.002	.185	.032	E.070	<.004	<.003	<.002	<.006	E.008	<.004
31...	--	<.007	<.002	.116	.026	E.058	<.004	<.003	<.002	<.006	.055	<.004
JUN												
13...	3	<.007	<.002	.083	.018	E.037	<.004	<.003	<.002	<.006	.006	<.004
27...	--	<.007	<.002	.056	.023	E.040	<.004	<.003	<.002	<.006	E.004	<.004
JUL												
12...	E2	<.007	<.002	.069	E.019	E.050	<.004	<.003	<.002	<.006	E.004	<.004
AUG												
08...	4	<.007	<.002	.069	E.015	E.099	<.004	<.003	<.002	<.006	<.004	<.004
SEP												
12...	4	--	--	--	--	--	--	--	--	--	--	--

08057200 WHITE ROCK CREEK AT GREENVILLE AVENUE, DALLAS, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT												
14...	<.001	.013	<.005	<.004	.104	.253	<.002	<.004	<.003	<.002	<.004	<.002
NOV												
18...	<.001	.007	<.005	<.004	.039	.245	<.002	<.004	<.003	E.001	<.004	<.002
DEC												
15...	<.001	.008	<.005	<.004	.126	.114	<.002	<.004	<.003	<.005	<.004	<.002
JAN												
20...	<.001	.005	<.005	<.004	.021	.197	<.002	<.004	<.003	E.001	<.004	<.002
FEB												
08...	<.001	E.004	<.005	<.004	.035	.416	<.002	<.004	<.003	<.002	<.004	<.002
MAR												
08...	<.001	.038	<.005	<.004	.156	.912	.033	<.004	<.003	E.003	<.004	<.002
29...	<.001	.013	.033	<.004	.676	1.36	<.007	<.004	<.003	E.004	<.004	<.002
APR												
12...	<.001	.027	<.030	<.004	.609	1.29	.023	<.004	<.003	.007	<.004	<.002
28...	<.001	.110	.019	<.004	.147	.345	E.007	<.004	<.003	<.002	<.004	<.002
MAY												
10...	<.001	.132	<.005	<.004	.134	.384	.005	<.004	<.003	<.002	<.004	<.002
31...	<.001	.020	.011	<.004	.169	.276	<.002	<.004	<.003	<.002	<.004	<.002
JUN												
13...	<.010	.051	.009	<.004	.235	.193	<.002	<.004	<.003	<.002	<.004	<.002
27...	<.001	.018	<.005	<.004	.120	.168	<.002	<.004	<.003	<.002	<.004	<.002
JUL												
12...	.005	.010	<.005	<.004	.056	.194	<.002	<.004	<.003	<.002	<.004	<.002
AUG												
08...	<.001	.010	<.005	<.004	.057	.250	<.002	<.004	<.003	<.002	<.004	<.002
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT												
14...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	<.003
NOV												
18...	<.007	<.002	<.006	<.002	<.004	E.009	<.004	<.003	<.002	<.003	<.013	<.003
DEC												
15...	<.007	<.002	<.006	<.002	<.004	E.008	<.004	<.003	<.005	<.003	<.013	<.003
JAN												
20...	<.007	<.002	<.006	<.002	<.004	E.010	<.004	<.003	<.002	<.003	<.013	<.003
FEB												
08...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	<.010
MAR												
08...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	.013
29...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	.004	<.003	<.013	<.003
APR												
12...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	.007	<.003	<.013	<.003
28...	<.030	<.002	<.006	<.013	<.004	.011	<.004	<.003	E.001	<.015	<.013	<.003
MAY												
10...	<.007	<.002	<.006	<.002	<.004	E.009	<.004	<.003	<.002	<.003	<.013	<.003
31...	<.007	<.002	<.006	<.002	<.004	<.013	<.004	<.003	<.002	<.003	<.013	<.003
JUN												
13...	<.025	<.002	<.006	<.002	<.004	E.006	<.004	<.003	E.001	<.003	<.013	<.003
27...	<.007	<.002	<.006	<.002	<.004	E.014	<.004	<.003	<.002	<.003	<.013	<.009
JUL												
12...	<.007	<.002	<.006	<.002	<.004	.014	<.004	<.003	<.002	<.003	<.013	<.003
AUG												
08...	<.007	<.002	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	<.003
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

08057200 WHITE ROCK CREEK AT GREENVILLE AVENUE, DALLAS, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT											
14...	<.017	<.001	<.004	E.018	<.002	<.002	<.004	<.003	<.013	<.001	<.005
NOV											
18...	<.017	<.001	<.004	E.007	<.002	<.002	<.004	<.003	<.013	<.001	<.005
DEC											
15...	<.017	<.001	<.004	E.025	<.002	<.002	.018	<.003	<.013	<.001	<.005
JAN											
20...	<.017	<.001	<.004	E.020	<.002	<.002	.013	<.003	<.013	<.001	<.005
FEB											
08...	<.017	<.001	<.004	E.009	<.002	E.002	.013	<.003	<.013	<.001	<.005
MAR											
08...	<.017	<.001	<.004	E.025	<.002	<.002	.210	<.003	<.013	<.001	<.005
29...	<.017	<.001	<.004	E.22	<.002	<.002	.118	<.003	<.013	<.001	<.005
APR											
12...	<.017	<.001	<.004	E.12	<.002	<.002	.122	<.003	<.013	<.001	<.005
28...	<.017	<.001	<.004	E.11	<.002	<.002	.034	<.003	<.013	<.001	<.005
MAY											
10...	<.017	<.001	<.004	E.034	<.002	<.002	<.020	<.003	<.013	<.001	<.005
31...	<.017	<.001	<.004	E.008	<.002	<.002	<.012	<.003	<.013	<.001	<.005
JUN											
13...	<.017	<.001	<.004	E.060	<.002	<.002	.025	<.003	<.013	<.001	<.005
27...	<.017	<.001	<.004	E.005	<.002	<.002	.009	<.003	<.013	<.001	<.005
JUL											
12...	<.017	<.001	<.004	<.003	<.002	<.002	<.004	<.003	<.013	<.001	<.005
AUG											
08...	<.017	<.001	<.004	<.003	<.002	<.002	<.004	<.003	<.013	<.001	<.005
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

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 current year.
BIOCHEMICAL DATA: Oct 1967 to current year.
PESTICIDE DATA: Oct 1970 to Jul 1981, Oct 1994 to current year
SEDIMENT DATA: Apr 1972 to Apr 1975, Oct 1998 to Sep 1999.
Water-discharge records.--Nov 1956 to Sep 1998.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1967 to Sep 1992, Apr 1993 to Sep 1999.
pH: Jan 1977 to Sep 1992, Apr 1993 to Sep 1999.
WATER TEMPERATURE: Oct 1967 to Sep 1992, Apr 1993 to Sep 1999.
DISSOLVED OXYGEN: Jan 1977 to Sep 1992, Apr 1993 to Sep 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,130 microsiemens, Dec 17, 1977; minimum, 112 microsiemens, 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 1998 TO SEPTEMBER 1999

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)
OCT											
14...	0920	677	707	7.5	25.0	6.6	81	150	57	52.1	5.87
NOV											
16...	1000	2490	467	7.6	16.0	7.6	78	160	47	58.5	3.79
DEC											
16...	0730	3430	506	7.8	13.0	9.2	87	170	53	60.0	4.66
JAN											
20...	0730	892	722	7.6	15.5	9.2	93	200	66	67.4	6.91
FEB											
08...	0945	2170	626	7.6	16.2	8.3	85	200	63	70.9	6.38
MAR											
11...	0720	1660	564	7.6	16.9	7.5	78	180	60	63.9	5.08
APR											
12...	0910	968	775	7.6	22.0	6.4	73	220	66	74.7	7.44
MAY											
17...	1030	892	704	7.6	26.2	7.1	89	180	27	63.0	6.42
JUN											
07...	0940	1170	639	7.7	27.8	7.4	95	190	38	64.0	6.35
JUL											
12...	0810	2640	387	7.6	28.0	5.7	73	120	27	42.0	3.86
AUG											
09...	0820	627	763	7.6	30.8	6.6	90	160	52	53.8	7.28
SEP											
16...	0710	877	548	7.6	26.2	6.5	81	140	41	47.0	5.29

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 FIX END FIELD CAC03 (MG/L) (39036)	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)
OCT											
14...	67.6	2	10.6	97	81.4	68.0	1.1	8.4	413	409	11.0
NOV											
16...	28.4	1	5.5	120	58.1	25.5	.6	6.7	289	272	3.14
DEC											
16...	29.6	1	6.6	120	79.2	23.3	.5	7.0	310	293	2.58
JAN											
20...	67.4	2	9.2	130	99.1	64.7	1.1	7.0	474	451	9.83
FEB											
08...	44.8	1	5.2	140	90.2	42.0	.6	5.7	394	375	5.09
MAR											
11...	39.9	1	6.7	120	81.0	39.1	.6	4.9	363	336	4.64
APR											
12...	67.4	2	9.8	150	95.2	64.9	1.0	6.6	526	466	9.77
MAY											
17...	63.7	2	9.2	160	87.0	59.9	1.1	6.2	420	437	9.09
JUN											
07...	51.3	2	7.7	150	72.1	50.4	.9	6.7	416	384	7.19
JUL											
12...	26.0	1	5.6	94	51.1	22.0	.5	5.7	246	222	1.77
AUG											
09...	77.7	3	11.4	110	86.3	80.4	1.4	9.2	458	446	10.3
SEP											
16...	49.4	2	8.5	98	68.3	47.7	1.0	7.3	339	324	6.10

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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, 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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT											
14...	.074	11.0	.566	13	1.1	.77	1.3	1.7	2.24	1.84	1.83
NOV											
16...	.065	3.21	.247	4.2	.79	.50	.75	1.0	.565	.425	.403
DEC											
16...	.053	2.64	.231	3.6	.69	.50	.73	.92	.499	.367	.343
JAN											
20...	.094	9.93	.363	12	1.3	.97	1.3	1.7	1.87	1.76	1.61
FEB											
08...	.035	5.12	.143	6.3	1.1	.54	.69	1.2	.776	.687	.649
MAR											
11...	.038	4.68	.189	5.8	.92	.69	.88	1.1	.839	.673	.716
APR											
12...	.108	9.88	.332	12	1.3	.96	1.3	1.7	2.00	1.80	1.58
MAY											
17...	.173	9.26	.150	11	1.3	.86	1.0	1.4	1.92	1.64	1.65
JUN											
07...	.038	7.22	.051	7.7	.46	.69	.74	.51	.130	1.31	1.09
JUL											
12...	.025	1.79	.059	3.0	1.2	.45	.51	1.2	.648	.286	.251
AUG											
09...	.030	10.3	.042	11	.88	.76	.80	.92	1.67	1.55	1.69
SEP											
16...	.085	6.18	.447	7.5	.90	.71	1.2	1.3	1.16	1.08	1.05

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT											
14...	5.62	42	77	91	60	19	<.007	<.002	.192	E.013	E.062
NOV											
16...	1.24	184	1240	98	10	6	<.007	<.002	.805	E.015	E.025
DEC											
16...	1.05	115	1070	98	10	10	<.007	<.002	.424	E.005	E.043
JAN											
20...	4.94	17	41	100	30	23	<.007	<.002	.237	E.011	E.052
FEB											
08...	1.99	105	615	99	E10	4	<.007	<.002	.551	E.010	E.029
MAR											
11...	2.20	177	793	99	20	7	<.007	<.002	.711	E.016	E.052
APR											
12...	4.84	46	120	100	10	9	<.007	<.002	.265	E.017	E.058
MAY											
17...	5.05	52	125	100	10	6	<.007	<.002	.173	.030	E.050
JUN											
07...	3.33	56	177	100	10	E3	<.007	<.002	.095	.021	E.036
JUL											
12...	.770	306	2180	100	<10	<3	<.007	<.002	.090	E.016	E.068
AUG											
09...	5.19	33	56	100	20	6	<.007	<.002	.070	E.010	E.066
SEP											
16...	3.22	131	310	100	20	4	<.007	<.002	.096	.023	E.070

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT											
14...	<.004	<.003	<.002	<.006	<.004	.016	<.001	.007	<.005	<.004	.054
NOV											
16...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.005	<.005	<.004	.132
DEC											
16...	<.004	<.003	<.002	<.006	E.003	<.004	<.001	.004	<.005	<.004	.080
JAN											
20...	<.004	<.003	<.002	<.006	<.004	<.015	<.001	.008	<.005	<.004	.030
FEB											
08...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.022	<.005	<.004	.042
MAR											
11...	<.004	<.003	<.002	<.006	.005	<.004	<.001	.072	<.005	<.004	.177
APR											
12...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.014	<.005	<.004	.064
MAY											
17...	<.004	<.003	<.002	<.006	.004	--	<.001	.014	<.005	<.004	.070
JUN											
07...	<.004	<.003	<.002	<.006	.004	.015	<.001	.015	<.005	<.004	.045
JUL											
12...	<.004	<.003	<.002	<.006	.011	<.004	<.001	.012	.014	<.004	.193
AUG											
09...	<.004	<.003	<.002	<.006	<.004	<.030	<.001	.010	<.005	<.004	<.002
SEP											
16...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.017	<.005	<.004	.063

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT										
14...	.274	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
NOV										
16...	.156	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
DEC										
16...	.191	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JAN										
20...	.256	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
FEB										
08...	.414	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
MAR										
11...	1.21	.023	.018	<.003	E.003	<.004	<.002	<.007	<.002	<.006
APR										
12...	.502	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
MAY										
17...	.370	<.007	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JUN										
07...	.234	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JUL										
12...	.271	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
AUG										
09...	.249	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
SEP										
16...	.280	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
OCT										
14...	<.002	<.004	.032	<.004	<.003	<.002	<.003	<.013	<.003	<.017
NOV										
16...	<.002	<.004	.013	<.004	<.003	<.002	<.003	<.013	<.003	<.017
DEC										
16...	<.002	<.004	.013	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JAN										
20...	<.002	<.004	.038	<.004	<.003	<.002	<.003	<.013	<.003	<.017
FEB										
08...	<.002	<.004	.016	<.004	<.003	<.002	<.003	<.013	.069	<.017
MAR										
11...	<.002	<.004	.019	<.004	<.003	E.004	<.003	<.013	.048	<.017
APR										
12...	<.002	<.004	.057	<.004	<.003	<.002	<.003	<.013	<.003	<.017
MAY										
17...	<.002	<.004	E.139	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JUN										
07...	<.002	<.004	E.092	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JUL										
12...	<.002	<.004	E.098	<.004	<.003	<.002	<.003	<.013	<.003	<.017
AUG										
09...	<.002	<.004	<.030	<.004	<.003	<.002	<.003	<.013	<.003	<.017
SEP										
16...	<.002	<.004	.039	<.004	<.003	<.002	<.003	<.013	<.003	<.017

DATE	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT										
14...	<.001	<.004	E.013	<.002	<.002	<.004	<.003	<.013	<.001	<.005
NOV										
16...	<.001	<.004	E.047	<.002	<.002	<.004	<.003	<.013	<.001	<.005
DEC										
16...	<.001	<.004	E.019	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JAN										
20...	<.001	<.004	E.008	<.002	<.002	<.004	<.003	<.013	<.001	<.005
FEB										
08...	<.001	<.004	E.012	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAR										
11...	<.001	<.004	E.058	<.002	<.002	.038	<.003	<.013	<.001	<.005
APR										
12...	<.001	<.004	E.025	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAY										
17...	<.001	<.004	E.029	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUN										
07...	<.001	<.004	E.028	<.002	<.002	<.004	<.003	<.060	<.001	<.005
JUL										
12...	<.001	<.004	E.049	<.002	<.002	<.004	<.003	--	<.001	<.005
AUG										
09...	<.001	<.004	E.011	<.002	<.002	<.004	<.003	<.013	<.001	<.005
SEP										
16...	<.001	<.004	E.032	<.002	<.002	<.004	<.003	<.013	<.001	<.005

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)
OCT												
13...	0810	646	7.4	24.9	7.1	86	150	46	50.8	6.67	69.1	2
NOV												
17...	0700	707	7.6	20.9	7.4	83	160	51	53.3	7.52	72.4	2
DEC												
15...	0715	485	7.4	12.7	8.6	81	160	51	58.2	4.30	35.2	1
JAN												
20...	0730	714	7.6	17.6	8.2	86	170	59	57.5	6.20	67.4	2
FEB												
08...	0715	617	7.6	14.7	9.4	92	170	57	59.8	6.13	57.2	2
MAR												
08...	0700	676	7.6	19.6	7.9	87	170	57	60.4	5.77	60.1	2
APR												
12...	0730	615	7.6	19.9	7.1	78	160	41	56.3	5.14	50.5	2
MAY												
10...	0650	694	7.6	24.3	6.8	83	200	44	69.9	6.62	62.8	2
JUN												
13...	0650	342	7.6	25.4	4.2	52	120	20	42.8	2.97	15.8	.6
JUL												
12...	0645	740	7.6	29.6	7.0	93	170	46	58.5	6.41	76.6	3
AUG												
08...	0650	818	7.6	29.8	6.4	85	170	54	57.2	7.12	87.7	3
SEP												
12...	0700	760	7.5	29.5	6.2	82	160	26	51.1	7.01	80.2	3

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
OCT												
13...	10.6	110	73.9	67.6	1.3	8.2	398	404	10.4	.048	10.4	.103
NOV												
17...	11.6	110	82.7	72.9	1.3	7.3	427	431	10.7	.090	10.8	.432
DEC												
15...	6.0	110	68.2	33.6	.6	6.2	312	300	4.16	.037	4.20	.178
JAN												
20...	10.6	110	92.7	69.6	1.4	6.6	451	428	10.0	.121	10.1	.269
FEB												
08...	8.6	120	81.1	55.9	1.2	4.8	397	383	7.64	.021	7.66	.094
MAR												
08...	9.1	120	86.4	59.5	1.2	6.7	432	403	8.71	.082	8.79	.187
APR												
12...	8.0	120	70.3	49.7	.9	6.2	374	357	7.51	.052	7.56	.144
MAY												
10...	9.5	160	87.9	60.2	1.1	8.5	443	444	8.56	.081	8.64	.168
JUN												
13...	4.9	99	38.0	14.5	.3	5.6	208	190	1.10	.032	1.13	.071
JUL												
12...	10.3	130	95.0	72.6	1.3	7.5	461	448	8.86	.056	8.91	.166
AUG												
08...	9.7	120	94.0	84.3	1.5	9.0	536	477	11.1	.098	11.2	.197
SEP												
12...	11.6	130	85.1	77.6	1.3	9.0	452	458	11.5	.032	11.6	.093

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT												
13...	12	1.1	.85	.96	1.2	1.99	1.93	1.54	4.71	53	99	20
NOV												
17...	13	1.4	1.3	1.7	1.8	2.01	2.08	1.99	6.10	67	88	20
DEC												
15...	5.3	.98	.57	.75	1.2	.744	.537	.497	1.52	142	99	20
JAN												
20...	12	1.5	1.1	1.4	1.7	2.04	1.98	1.62	4.97	30	100	30
FEB												
08...	9.0	1.3	.89	.99	1.4	1.42	E.040	1.16	3.56	32	99	20
MAR												
08...	10	1.2	.94	1.1	1.4	1.63	1.60	1.31	4.00	43	98	20
APR												
12...	9.8	2.1	.74	.88	2.2	1.99	1.39	1.23	3.77	454	97	20
MAY												
10...	10	1.2	.82	.98	1.3	1.68	1.57	1.30	3.98	46	98	20
JUN												
13...	1.9	.73	.39	.46	.80	.361	.167	.142	.435	182	93	E10
JUL												
12...	10	1.1	.89	1.1	1.2	1.55	1.51	1.37	4.19	104	82	E10
AUG												
08...	13	1.1	.96	1.2	1.3	2.10	2.05	1.83	5.61	40	100	E10
SEP												
12...	13	1.1	.98	1.1	1.2	2.38	2.28	2.04	6.25	32	100	10

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
OCT												
13...	5	<.007	<.002	.137	<.018	E.085	<.004	<.003	<.002	<.006	<.004	<.020
NOV												
17...	9	<.007	<.002	.168	E.009	E.073	<.004	<.003	<.002	<.006	.005	.018
DEC												
15...	10	<.007	<.002	.858	E.015	E.041	<.004	<.003	<.002	<.006	<.008	<.009
JAN												
20...	22	<.007	<.002	.237	E.013	E.066	<.004	<.003	<.002	<.006	.007	.013
FEB												
08...	21	<.007	<.002	.267	E.012	E.067	<.004	<.003	<.002	<.006	<.004	<.010
MAR												
08...	15	<.007	<.002	.762	E.015	E.094	<.004	<.003	<.002	<.006	<.004	<.004
APR												
12...	4	<.007	<.002	.258	.030	E.086	<.004	<.003	<.002	<.006	<.020	<.020
MAY												
10...	7	<.007	<.002	.199	.022	E.085	<.004	<.003	<.002	<.006	E.003	.011
JUN												
13...	11	<.007	<.002	.111	.022	E.040	<.004	<.003	<.002	<.006	E.003	<.004
JUL												
12...	9	<.007	<.002	.105	E.014	E.044	<.004	<.003	<.002	<.006	<.004	.014
AUG												
08...	6	<.007	<.002	.073	E.009	E.087	<.004	<.003	<.002	<.006	<.004	<.004
SEP												
12...	9	<.007	<.002	.078	<.018	E.10	<.004	<.003	<.002	<.006	<.004	.026

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT												
13...	<.001	.015	<.005	<.004	<.002	.290	<.002	<.004	<.003	<.002	<.004	<.002
NOV												
17...	<.001	.010	<.005	<.004	.041	.253	<.002	<.004	<.003	<.002	<.004	<.002
DEC												
15...	<.001	.009	<.005	<.004	.073	.140	<.002	<.004	<.003	.005	<.004	<.002
JAN												
20...	<.001	.005	<.005	<.004	.025	.185	<.002	<.015	<.003	E.002	<.004	<.002
FEB												
08...	<.001	.006	<.005	<.004	.020	.209	<.002	<.010	<.003	<.002	<.004	<.002
MAR												
08...	<.001	.010	<.005	<.004	.047	.572	<.002	<.004	<.003	<.002	<.004	<.002
APR												
12...	<.001	.046	<.020	<.004	.216	.657	<.002	<.004	<.003	<.002	<.004	<.002
MAY												
10...	<.001	.014	<.005	<.004	.084	.825	<.002	<.004	<.003	<.002	<.004	<.002
JUN												
13...	<.007	.013	<.005	<.004	.147	.256	<.002	<.004	<.003	<.002	<.004	<.002
JUL												
12...	<.010	.007	<.005	<.004	.013	.219	<.002	<.004	<.003	<.002	<.004	<.002
AUG												
08...	<.001	.005	<.005	<.004	.024	.205	<.002	<.004	<.003	<.002	<.004	<.002
SEP												
12...	<.001	.005	<.005	<.004	.016	.235	<.002	<.004	<.003	<.002	<.004	<.002

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT												
13...	<.007	<.002	<.006	<.002	<.004	.048	<.004	<.003	<.002	<.003	<.013	<.003
NOV												
17...	<.007	<.002	<.006	<.002	<.004	.034	<.004	<.003	<.002	<.003	<.013	<.003
DEC												
15...	<.007	<.002	<.006	<.002	<.004	.046	<.004	<.003	<.002	<.003	<.013	<.003
JAN												
20...	<.007	<.002	<.006	<.002	<.004	E.039	<.013	<.003	<.002	<.003	<.013	<.003
FEB												
08...	<.007	<.002	<.006	<.002	<.004	.053	<.010	<.003	<.002	<.003	<.013	.051
MAR												
08...	<.007	<.002	<.006	<.002	<.004	<.030	<.004	<.003	<.002	<.003	<.013	.031
APR												
12...	<.007	<.002	<.006	<.002	<.004	<.050	<.004	<.003	<.002	<.003	<.013	<.003
MAY												
10...	<.007	<.002	<.006	<.002	<.004	.042	<.004	<.003	<.002	<.003	<.013	.010
JUN												
13...	<.007	<.002	<.006	<.002	<.004	.056	<.004	<.003	<.002	<.003	<.013	<.003
JUL												
12...	<.007	<.002	<.006	<.020	<.004	.058	<.004	<.003	<.002	<.010	<.013	<.003
AUG												
08...	<.007	<.002	<.006	<.002	<.004	<.020	<.004	<.003	<.002	<.003	<.013	<.003
SEP												
12...	<.007	<.002	<.006	<.002	<.004	<.030	<.004	<.003	<.002	<.007	<.013	<.003

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DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT											
13...	<.017	<.001	<.004	E.017	<.002	<.002	<.004	<.003	<.013	<.001	<.005
NOV											
17...	<.017	<.001	<.004	E.007	<.002	<.002	<.004	<.003	<.013	<.001	<.005
DEC											
15...	<.017	<.001	<.004	E.023	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JAN											
20...	<.017	<.001	<.004	E.023	<.002	<.002	<.004	<.003	<.013	<.001	<.005
FEB											
08...	<.017	<.001	<.004	E.041	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAR											
08...	<.017	<.001	<.004	E.019	<.002	<.002	<.004	<.003	<.013	<.001	<.005
APR											
12...	<.017	<.001	<.004	E.17	<.002	<.002	<.020	<.003	<.013	<.001	<.005
MAY											
10...	<.017	<.001	<.004	E.052	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUN											
13...	<.017	<.001	<.004	E.053	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUL											
12...	<.017	<.001	<.004	E.028	<.002	<.002	<.004	<.003	<.013	<.001	<.005
AUG											
08...	<.017	<.001	<.004	<.010	<.002	<.002	<.004	<.003	<.013	<.001	<.005
SEP											
12...	<.017	<.001	<.004	<.007	<.002	<.002	<.004	<.003	<.013	<.001	<.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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)
OCT											
14...	0920	677	707	7.5	25.0	6.6	81	150	57	52.1	5.87
NOV											
16...	1000	2490	467	7.6	16.0	7.6	78	160	47	58.5	3.79
DEC											
16...	0730	3430	506	7.8	13.0	9.2	87	170	53	60.0	4.66
JAN											
20...	0730	892	722	7.6	15.5	9.2	93	200	66	67.4	6.91
FEB											
08...	0945	2170	626	7.6	16.2	8.3	85	200	63	70.9	6.38
MAR											
11...	0720	1660	564	7.6	16.9	7.5	78	180	60	63.9	5.08
APR											
12...	0910	968	775	7.6	22.0	6.4	73	220	66	74.7	7.44
MAY											
17...	1030	892	704	7.6	26.2	7.1	89	180	27	63.0	6.42
JUN											
07...	0940	1170	639	7.7	27.8	7.4	95	190	38	64.0	6.35
JUL											
12...	0810	2640	387	7.6	28.0	5.7	73	120	27	42.0	3.86
AUG											
09...	0820	627	763	7.6	30.8	6.6	90	160	52	53.8	7.28
SEP											
16...	0710	877	548	7.6	26.2	6.5	81	140	41	47.0	5.29

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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 FIX END FIELD CAC03 (MG/L) (39036)	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)
OCT											
14...	67.6	2	10.6	97	81.4	68.0	1.1	8.4	413	409	11.0
NOV											
16...	28.4	1	5.5	120	58.1	25.5	.6	6.7	289	272	3.14
DEC											
16...	29.6	1	6.6	120	79.2	23.3	.5	7.0	310	293	2.58
JAN											
20...	67.4	2	9.2	130	99.1	64.7	1.1	7.0	474	451	9.83
FEB											
08...	44.8	1	5.2	140	90.2	42.0	.6	5.7	394	375	5.09
MAR											
11...	39.9	1	6.7	120	81.0	39.1	.6	4.9	363	336	4.64
APR											
12...	67.4	2	9.8	150	95.2	64.9	1.0	6.6	526	466	9.77
MAY											
17...	63.7	2	9.2	160	87.0	59.9	1.1	6.2	420	437	9.09
JUN											
07...	51.3	2	7.7	150	72.1	50.4	.9	6.7	416	384	7.19
JUL											
12...	26.0	1	5.6	94	51.1	22.0	.5	5.7	246	222	1.77
AUG											
09...	77.7	3	11.4	110	86.3	80.4	1.4	9.2	458	446	10.3
SEP											
16...	49.4	2	8.5	98	68.3	47.7	1.0	7.3	339	324	6.10

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, 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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT											
14...	.074	11.0	.566	13	1.1	.77	1.3	1.7	2.24	1.84	1.83
NOV											
16...	.065	3.21	.247	4.2	.79	.50	.75	1.0	.565	.425	.403
DEC											
16...	.053	2.64	.231	3.6	.69	.50	.73	.92	.499	.367	.343
JAN											
20...	.094	9.93	.363	12	1.3	.97	1.3	1.7	1.87	1.76	1.61
FEB											
08...	.035	5.12	.143	6.3	1.1	.54	.69	1.2	.776	.687	.649
MAR											
11...	.038	4.68	.189	5.8	.92	.69	.88	1.1	.839	.673	.716
APR											
12...	.108	9.88	.332	12	1.3	.96	1.3	1.7	2.00	1.80	1.58
MAY											
17...	.173	9.26	.150	11	1.3	.86	1.0	1.4	1.92	1.64	1.65
JUN											
07...	.038	7.22	.051	7.7	.46	.69	.74	.51	.130	1.31	1.09
JUL											
12...	.025	1.79	.059	3.0	1.2	.45	.51	1.2	.648	.286	.251
AUG											
09...	.030	10.3	.042	11	.88	.76	.80	.92	1.67	1.55	1.69
SEP											
16...	.085	6.18	.447	7.5	.90	.71	1.2	1.3	1.16	1.08	1.05

08057410 TRINITY RIVER BELOW DALLAS, TX--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT											
14...	5.62	42	77	91	60	19	<.007	<.002	.192	E.013	E.062
NOV											
16...	1.24	184	1240	98	10	6	<.007	<.002	.805	E.015	E.025
DEC											
16...	1.05	115	1070	98	10	10	<.007	<.002	.424	E.005	E.043
JAN											
20...	4.94	17	41	100	30	23	<.007	<.002	.237	E.011	E.052
FEB											
08...	1.99	105	615	99	E10	4	<.007	<.002	.551	E.010	E.029
MAR											
11...	2.20	177	793	99	20	7	<.007	<.002	.711	E.016	E.052
APR											
12...	4.84	46	120	100	10	9	<.007	<.002	.265	E.017	E.058
MAY											
17...	5.05	52	125	100	10	6	<.007	<.002	.173	.030	E.050
JUN											
07...	3.33	56	177	100	10	E3	<.007	<.002	.095	.021	E.036
JUL											
12...	.770	306	2180	100	<10	<3	<.007	<.002	.090	E.016	E.068
AUG											
09...	5.19	33	56	100	20	6	<.007	<.002	.070	E.010	E.066
SEP											
16...	3.22	131	310	100	20	4	<.007	<.002	.096	.023	E.070

DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT											
14...	<.004	<.003	<.002	<.006	<.004	.016	<.001	.007	<.005	<.004	.054
NOV											
16...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.005	<.005	<.004	.132
DEC											
16...	<.004	<.003	<.002	<.006	E.003	<.004	<.001	.004	<.005	<.004	.080
JAN											
20...	<.004	<.003	<.002	<.006	<.004	<.015	<.001	.008	<.005	<.004	.030
FEB											
08...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.022	<.005	<.004	.042
MAR											
11...	<.004	<.003	<.002	<.006	.005	<.004	<.001	.072	<.005	<.004	.177
APR											
12...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.014	<.005	<.004	.064
MAY											
17...	<.004	<.003	<.002	<.006	.004	--	<.001	.014	<.005	<.004	.070
JUN											
07...	<.004	<.003	<.002	<.006	.004	.015	<.001	.015	<.005	<.004	.045
JUL											
12...	<.004	<.003	<.002	<.006	.011	<.004	<.001	.012	.014	<.004	.193
AUG											
09...	<.004	<.003	<.002	<.006	<.004	<.030	<.001	.010	<.005	<.004	<.002
SEP											
16...	<.004	<.003	<.002	<.006	<.004	<.004	<.001	.017	<.005	<.004	.063

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DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT										
14...	.274	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
NOV										
16...	.156	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
DEC										
16...	.191	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JAN										
20...	.256	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
FEB										
08...	.414	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
MAR										
11...	1.21	.023	.018	<.003	E.003	<.004	<.002	<.007	<.002	<.006
APR										
12...	.502	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
MAY										
17...	.370	<.007	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JUN										
07...	.234	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
JUL										
12...	.271	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
AUG										
09...	.249	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006
SEP										
16...	.280	<.002	<.004	<.003	<.002	<.004	<.002	<.007	<.002	<.006

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
OCT										
14...	<.002	<.004	.032	<.004	<.003	<.002	<.003	<.013	<.003	<.017
NOV										
16...	<.002	<.004	.013	<.004	<.003	<.002	<.003	<.013	<.003	<.017
DEC										
16...	<.002	<.004	.013	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JAN										
20...	<.002	<.004	.038	<.004	<.003	<.002	<.003	<.013	<.003	<.017
FEB										
08...	<.002	<.004	.016	<.004	<.003	<.002	<.003	<.013	.069	<.017
MAR										
11...	<.002	<.004	.019	<.004	<.003	E.004	<.003	<.013	.048	<.017
APR										
12...	<.002	<.004	.057	<.004	<.003	<.002	<.003	<.013	<.003	<.017
MAY										
17...	<.002	<.004	E.139	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JUN										
07...	<.002	<.004	E.092	<.004	<.003	<.002	<.003	<.013	<.003	<.017
JUL										
12...	<.002	<.004	E.098	<.004	<.003	<.002	<.003	<.013	<.003	<.017
AUG										
09...	<.002	<.004	<.030	<.004	<.003	<.002	<.003	<.013	<.003	<.017
SEP										
16...	<.002	<.004	.039	<.004	<.003	<.002	<.003	<.013	<.003	<.017

08057410 TRINITY RIVER BELOW DALLAS, TX--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT										
14...	<.001	<.004	E.013	<.002	<.002	<.004	<.003	<.013	<.001	<.005
NOV										
16...	<.001	<.004	E.047	<.002	<.002	<.004	<.003	<.013	<.001	<.005
DEC										
16...	<.001	<.004	E.019	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JAN										
20...	<.001	<.004	E.008	<.002	<.002	<.004	<.003	<.013	<.001	<.005
FEB										
08...	<.001	<.004	E.012	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAR										
11...	<.001	<.004	E.058	<.002	<.002	.038	<.003	<.013	<.001	<.005
APR										
12...	<.001	<.004	E.025	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAY										
17...	<.001	<.004	E.029	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUN										
07...	<.001	<.004	E.028	<.002	<.002	<.004	<.003	<.060	<.001	<.005
JUL										
12...	<.001	<.004	E.049	<.002	<.002	<.004	<.003	--	<.001	<.005
AUG										
09...	<.001	<.004	E.011	<.002	<.002	<.004	<.003	<.013	<.001	<.005
SEP										
16...	<.001	<.004	E.032	<.002	<.002	<.004	<.003	<.013	<.001	<.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	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)
OCT												
13...	0810	646	7.4	24.9	7.1	86	150	46	50.8	6.67	69.1	2
NOV												
17...	0700	707	7.6	20.9	7.4	83	160	51	53.3	7.52	72.4	2
DEC												
15...	0715	485	7.4	12.7	8.6	81	160	51	58.2	4.30	35.2	1
JAN												
20...	0730	714	7.6	17.6	8.2	86	170	59	57.5	6.20	67.4	2
FEB												
08...	0715	617	7.6	14.7	9.4	92	170	57	59.8	6.13	57.2	2
MAR												
08...	0700	676	7.6	19.6	7.9	87	170	57	60.4	5.77	60.1	2
APR												
12...	0730	615	7.6	19.9	7.1	78	160	41	56.3	5.14	50.5	2
MAY												
10...	0650	694	7.6	24.3	6.8	83	200	44	69.9	6.62	62.8	2
JUN												
13...	0650	342	7.6	25.4	4.2	52	120	20	42.8	2.97	15.8	.6
JUL												
12...	0645	740	7.6	29.6	7.0	93	170	46	58.5	6.41	76.6	3
AUG												
08...	0650	818	7.6	29.8	6.4	85	170	54	57.2	7.12	87.7	3
SEP												
12...	0700	760	7.5	29.5	6.2	82	160	26	51.1	7.01	80.2	3

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
OCT												
13...	10.6	110	73.9	67.6	1.3	8.2	398	404	10.4	.048	10.4	.103
NOV												
17...	11.6	110	82.7	72.9	1.3	7.3	427	431	10.7	.090	10.8	.432
DEC												
15...	6.0	110	68.2	33.6	.6	6.2	312	300	4.16	.037	4.20	.178
JAN												
20...	10.6	110	92.7	69.6	1.4	6.6	451	428	10.0	.121	10.1	.269
FEB												
08...	8.6	120	81.1	55.9	1.2	4.8	397	383	7.64	.021	7.66	.094
MAR												
08...	9.1	120	86.4	59.5	1.2	6.7	432	403	8.71	.082	8.79	.187
APR												
12...	8.0	120	70.3	49.7	.9	6.2	374	357	7.51	.052	7.56	.144
MAY												
10...	9.5	160	87.9	60.2	1.1	8.5	443	444	8.56	.081	8.64	.168
JUN												
13...	4.9	99	38.0	14.5	.3	5.6	208	190	1.10	.032	1.13	.071
JUL												
12...	10.3	130	95.0	72.6	1.3	7.5	461	448	8.86	.056	8.91	.166
AUG												
08...	9.7	120	94.0	84.3	1.5	9.0	536	477	11.1	.098	11.2	.197
SEP												
12...	11.6	130	85.1	77.6	1.3	9.0	452	458	11.5	.032	11.6	.093

DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT												
13...	12	1.1	.85	.96	1.2	1.99	1.93	1.54	4.71	53	99	20
NOV												
17...	13	1.4	1.3	1.7	1.8	2.01	2.08	1.99	6.10	67	88	20
DEC												
15...	5.3	.98	.57	.75	1.2	.744	.537	.497	1.52	142	99	20
JAN												
20...	12	1.5	1.1	1.4	1.7	2.04	1.98	1.62	4.97	30	100	30
FEB												
08...	9.0	1.3	.89	.99	1.4	1.42	E.040	1.16	3.56	32	99	20
MAR												
08...	10	1.2	.94	1.1	1.4	1.63	1.60	1.31	4.00	43	98	20
APR												
12...	9.8	2.1	.74	.88	2.2	1.99	1.39	1.23	3.77	454	97	20
MAY												
10...	10	1.2	.82	.98	1.3	1.68	1.57	1.30	3.98	46	98	20
JUN												
13...	1.9	.73	.39	.46	.80	.361	.167	.142	.435	182	93	E10
JUL												
12...	10	1.1	.89	1.1	1.2	1.55	1.51	1.37	4.19	104	82	E10
AUG												
08...	13	1.1	.96	1.2	1.3	2.10	2.05	1.83	5.61	40	100	E10
SEP												
12...	13	1.1	.98	1.1	1.2	2.38	2.28	2.04	6.25	32	100	10

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DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)
OCT												
13...	5	<.007	<.002	.137	<.018	E.085	<.004	<.003	<.002	<.006	<.004	<.020
NOV												
17...	9	<.007	<.002	.168	E.009	E.073	<.004	<.003	<.002	<.006	.005	.018
DEC												
15...	10	<.007	<.002	.858	E.015	E.041	<.004	<.003	<.002	<.006	<.008	<.009
JAN												
20...	22	<.007	<.002	.237	E.013	E.066	<.004	<.003	<.002	<.006	.007	.013
FEB												
08...	21	<.007	<.002	.267	E.012	E.067	<.004	<.003	<.002	<.006	<.004	<.010
MAR												
08...	15	<.007	<.002	.762	E.015	E.094	<.004	<.003	<.002	<.006	<.004	<.004
APR												
12...	4	<.007	<.002	.258	.030	E.086	<.004	<.003	<.002	<.006	<.020	<.020
MAY												
10...	7	<.007	<.002	.199	.022	E.085	<.004	<.003	<.002	<.006	E.003	.011
JUN												
13...	11	<.007	<.002	.111	.022	E.040	<.004	<.003	<.002	<.006	E.003	<.004
JUL												
12...	9	<.007	<.002	.105	E.014	E.044	<.004	<.003	<.002	<.006	<.004	.014
AUG												
08...	6	<.007	<.002	.073	E.009	E.087	<.004	<.003	<.002	<.006	<.004	<.004
SEP												
12...	9	<.007	<.002	.078	<.018	E.10	<.004	<.003	<.002	<.006	<.004	.026

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MALATHION, DISSOLVED (UG/L) (39532)	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT												
13...	<.001	.015	<.005	<.004	<.002	.290	<.002	<.004	<.003	<.002	<.004	<.002
NOV												
17...	<.001	.010	<.005	<.004	.041	.253	<.002	<.004	<.003	<.002	<.004	<.002
DEC												
15...	<.001	.009	<.005	<.004	.073	.140	<.002	<.004	<.003	.005	<.004	<.002
JAN												
20...	<.001	.005	<.005	<.004	.025	.185	<.002	<.015	<.003	E.002	<.004	<.002
FEB												
08...	<.001	.006	<.005	<.004	.020	.209	<.002	<.010	<.003	<.002	<.004	<.002
MAR												
08...	<.001	.010	<.005	<.004	.047	.572	<.002	<.004	<.003	<.002	<.004	<.002
APR												
12...	<.001	.046	<.020	<.004	.216	.657	<.002	<.004	<.003	<.002	<.004	<.002
MAY												
10...	<.001	.014	<.005	<.004	.084	.825	<.002	<.004	<.003	<.002	<.004	<.002
JUN												
13...	<.007	.013	<.005	<.004	.147	.256	<.002	<.004	<.003	<.002	<.004	<.002
JUL												
12...	<.010	.007	<.005	<.004	.013	.219	<.002	<.004	<.003	<.002	<.004	<.002
AUG												
08...	<.001	.005	<.005	<.004	.024	.205	<.002	<.004	<.003	<.002	<.004	<.002
SEP												
12...	<.001	.005	<.005	<.004	.016	.235	<.002	<.004	<.003	<.002	<.004	<.002

08057410 TRINITY RIVER BELOW DALLAS, TX--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT												
13...	<.007	<.002	<.006	<.002	<.004	.048	<.004	<.003	<.002	<.003	<.013	<.003
NOV												
17...	<.007	<.002	<.006	<.002	<.004	.034	<.004	<.003	<.002	<.003	<.013	<.003
DEC												
15...	<.007	<.002	<.006	<.002	<.004	.046	<.004	<.003	<.002	<.003	<.013	<.003
JAN												
20...	<.007	<.002	<.006	<.002	<.004	E.039	<.013	<.003	<.002	<.003	<.013	<.003
FEB												
08...	<.007	<.002	<.006	<.002	<.004	.053	<.010	<.003	<.002	<.003	<.013	.051
MAR												
08...	<.007	<.002	<.006	<.002	<.004	<.030	<.004	<.003	<.002	<.003	<.013	.031
APR												
12...	<.007	<.002	<.006	<.002	<.004	<.050	<.004	<.003	<.002	<.003	<.013	<.003
MAY												
10...	<.007	<.002	<.006	<.002	<.004	.042	<.004	<.003	<.002	<.003	<.013	.010
JUN												
13...	<.007	<.002	<.006	<.002	<.004	.056	<.004	<.003	<.002	<.003	<.013	<.003
JUL												
12...	<.007	<.002	<.006	<.020	<.004	.058	<.004	<.003	<.002	<.010	<.013	<.003
AUG												
08...	<.007	<.002	<.006	<.002	<.004	<.020	<.004	<.003	<.002	<.003	<.013	<.003
SEP												
12...	<.007	<.002	<.006	<.002	<.004	<.030	<.004	<.003	<.002	<.007	<.013	<.003

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT											
13...	<.017	<.001	<.004	E.017	<.002	<.002	<.004	<.003	<.013	<.001	<.005
NOV											
17...	<.017	<.001	<.004	E.007	<.002	<.002	<.004	<.003	<.013	<.001	<.005
DEC											
15...	<.017	<.001	<.004	E.023	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JAN											
20...	<.017	<.001	<.004	E.023	<.002	<.002	<.004	<.003	<.013	<.001	<.005
FEB											
08...	<.017	<.001	<.004	E.041	<.002	<.002	<.004	<.003	<.013	<.001	<.005
MAR											
08...	<.017	<.001	<.004	E.019	<.002	<.002	<.004	<.003	<.013	<.001	<.005
APR											
12...	<.017	<.001	<.004	E.17	<.002	<.002	<.020	<.003	<.013	<.001	<.005
MAY											
10...	<.017	<.001	<.004	E.052	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUN											
13...	<.017	<.001	<.004	E.053	<.002	<.002	<.004	<.003	<.013	<.001	<.005
JUL											
12...	<.017	<.001	<.004	E.028	<.002	<.002	<.004	<.003	<.013	<.001	<.005
AUG											
08...	<.017	<.001	<.004	<.010	<.002	<.002	<.004	<.003	<.013	<.001	<.005
SEP											
12...	<.017	<.001	<.004	<.007	<.002	<.002	<.004	<.003	<.013	<.001	<.005

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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 Sep 1980, Apr 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 390.00 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. No flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0530	2,030	22.49	Jun 17	1700	1,210	19.47
Jun 11	1400	2,240	23.00				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	1.5	.39	1.0	2.5	.61	.32	121	.05	e.82	.02	.00
2	.02	e.50	.53	1.0	2.0	.47	4.3	4.2	.02	e.74	.02	.00
3	.02	e.40	.57	.98	1.7	4.2	2.0	e3.0	.61	.68	.02	.00
4	.02	e.30	22	.79	1.3	3.7	.93	e2.0	434	3.6	.01	.00
5	.02	.18	5.5	.75	1.2	1.3	.41	e1.9	12	2.7	.01	.00
6	.02	.15	1.7	3.1	1.5	.62	.32	e1.9	2.8	.66	.00	.00
7	.01	.14	.90	7.4	1.3	.48	.28	e1.8	1.2	.53	.00	.00
8	.02	.17	.70	30	1.3	.54	e.23	e1.8	.62	.40	.00	.00
9	.03	.24	3.2	4.2	1.7	.47	e.20	e1.7	.80	e.28	.00	.00
10	.03	.87	2.0	2.2	1.5	20	.17	1.7	4.9	e.24	.00	.00
11	.02	1.1	33	1.6	1.4	6.7	20	1.1	499	.19	.00	.00
12	.02	.55	87	1.2	1.2	1.5	68	.58	20	.18	.00	.00
13	.01	.40	13	1.2	1.1	.50	4.3	.41	5.6	.16	.00	.00
14	.01	.39	5.0	.83	1.2	.34	1.4	.29	59	.16	.00	.00
15	.00	.37	3.5	.72	1.2	.38	.97	.22	240	.16	.00	.00
16	.02	.56	3.2	.93	1.3	.46	94	.21	24	.13	.00	.00
17	.03	.66	4.6	1.1	1.2	.58	3.4	.18	172	.09	.00	.00
18	.08	.81	34	1.2	1.4	1.2	1.4	.15	25	.09	.00	.00
19	5.1	1.0	6.2	1.1	1.6	.73	.95	87	6.5	.09	.00	.00
20	1.2	1.1	2.9	.97	.87	.60	.60	31	4.9	.07	.00	.00
21	.32	1.3	1.7	.88	.66	37	.58	1.6	2.0	.07	.00	.00
22	.13	8.7	1.4	.89	1.6	35	.40	.45	e1.6	.08	.00	.00
23	.08	124	1.2	.95	51	3.3	1.2	.22	e1.2	.08	.00	.00
24	.05	2.3	1.1	.88	4.1	3.4	2.0	.33	e.90	.07	.00	.06
25	e.03	.63	1.0	.71	1.8	1.3	1.5	.30	e.70	.06	.00	.01
26	.05	.51	.91	.80	15	11	1.2	.21	e.55	.06	.00	.00
27	.06	.26	.93	e5.5	2.9	1.9	2.4	7.4	e2.0	.04	.00	.00
28	.09	.25	.87	4.2	1.3	1.1	6.6	13	e7.0	.04	.00	.01
29	.16	.24	.93	3.9	.76	14	2.3	.87	e2.5	.03	.00	.01
30	78	.29	.91	3.0	---	1.3	1.8	.17	e.90	.02	.00	.00
31	8.7	---	1.0	3.3	---	.41	---	.08	---	.02	.00	---
MEAN	3.04	5.00	7.80	2.82	3.71	5.00	7.47	9.25	51.1	.40	.003	.003
MAX	78	124	87	30	51	37	94	121	499	3.6	.02	.06
MIN	.00	.14	.39	.71	.66	.34	.17	.08	.02	.02	.00	.00

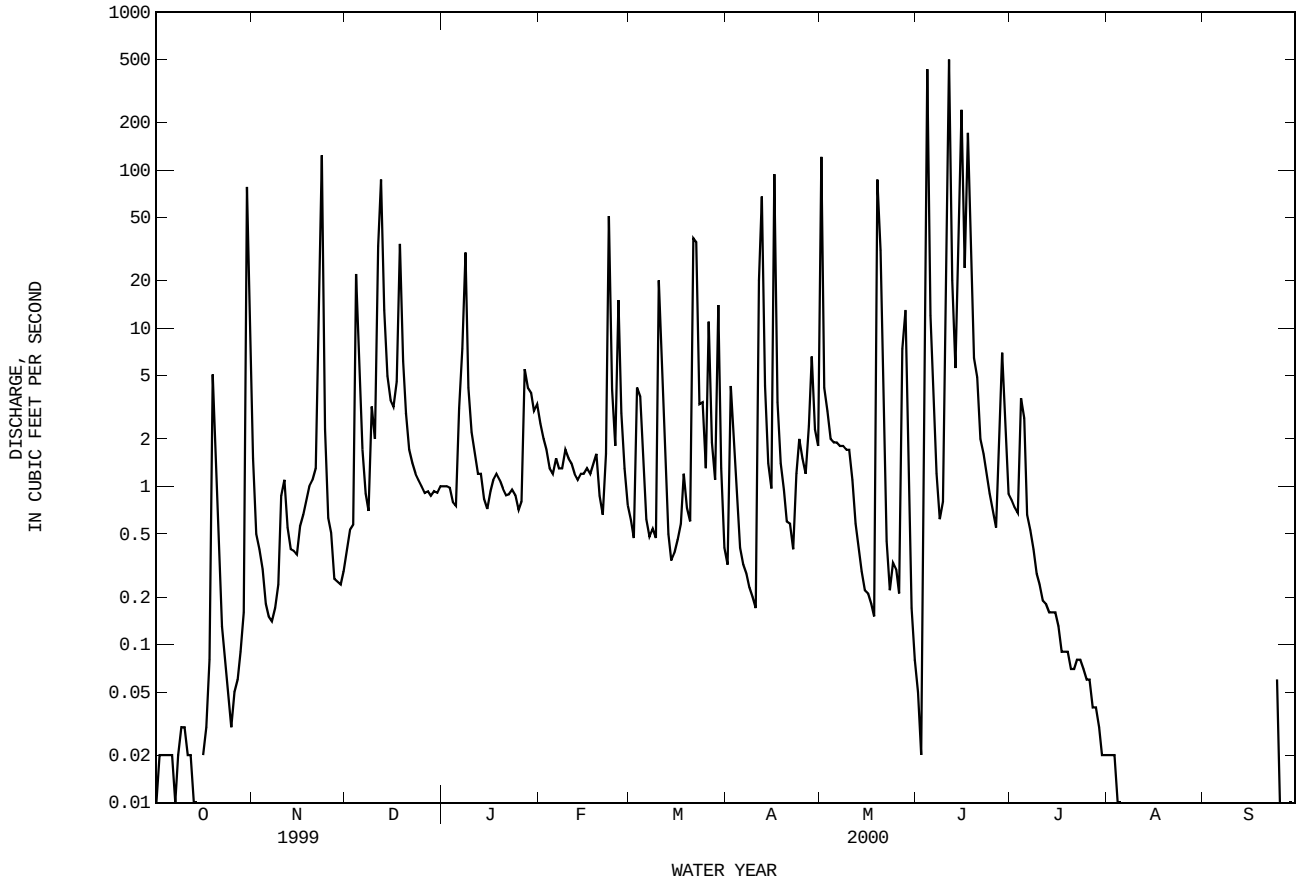
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000h, BY WATER YEAR (WY)

MEAN	11.7	9.10	11.9	6.91	11.3	10.6	12.1	16.8	9.70	3.41	1.64	2.93
MAX	46.3	43.1	40.2	19.8	41.6	26.6	42.2	72.4	51.1	24.9	11.0	8.30
(WY)	1995	1995	1999	1990	1997	1977	1990	1989	2000	1994	1996	1980
MIN	.000	.33	.42	.12	.34	1.28	.66	.64	.32	.000	.000	.003
(WY)	1976	1990	1978	1976	1976	1996	1978	1977	1978	1980	1980	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000h	
ANNUAL MEAN	7.49		7.90		9.15	
HIGHEST ANNUAL MEAN					17.4	1995
LOWEST ANNUAL MEAN					1.61	1978
HIGHEST DAILY MEAN	266	Jan 29	499	Jun 11	1150	May 17 1989
LOWEST DAILY MEAN	.00	Aug 15	.00	Oct 15	.00	Oct 1 1975
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 15	.00	Aug 6	.00	Oct 1 1975
INSTANTANEOUS PEAK FLOW			2240	Jun 11	5660	May 17 1989
INSTANTANEOUS PEAK STAGE			23.00	Jun 11	29.21	May 17 1989
10 PERCENT EXCEEDS	9.8		6.8		11	
50 PERCENT EXCEEDS	.97		.70		.91	
90 PERCENT EXCEEDS	.01		.00		.01	

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 current year.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since installation of gage in Oct 1998, at least 10% of contributing drainage area has been regulated by eight major upstream reservoirs, with a combined capacity of 2,305,400 acre-ft. Several cities within the Dallas-Fort Worth metroplex divert water for municipal use and return it to the river as wastewater effluents above this station. Low flows are sustained by wastewater effluents.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1866 and 1908 reached about the same stage in Dallas and are probably the highest since, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	2890	2750	1130	2320	780	973	794	8820	986	731	e700
2	2190	6830	2430	1590	1690	721	962	1320	4050	932	750	e690
3	12600	3420	1360	966	2230	733	1670	4480	2760	877	714	e690
4	11400	1290	9560	906	1560	676	5500	3750	2200	782	727	e740
5	2980	945	12600	907	1110	688	3460	5660	1920	805	740	e710
6	6570	831	9750	935	2010	654	1640	2750	1580	1090	735	943
7	6130	823	3450	970	2050	639	1160	1290	1440	975	e710	1500
8	1810	826	3480	908	2110	2420	1140	1050	1320	3120	e690	1030
9	1060	818	2590	913	1390	6880	1160	939	1170	1980	e690	926
10	820	1810	3510	850	1120	3630	969	1750	1290	2310	e700	e750
11	710	2040	8660	817	1120	3470	830	2620	1430	5650	e690	e710
12	656	1330	9920	804	1120	7500	937	1850	1980	2820	e690	e710
13	655	6820	9410	856	1000	5390	860	2060	2580	1480	e710	1670
14	603	10600	6800	849	914	2630	1160	1180	1860	1170	811	2700
15	593	8240	4700	830	857	1650	2850	878	1300	1030	743	1550
16	561	2630	3750	772	872	1340	1510	876	2070	911	e690	989
17	1180	1530	3280	771	848	1240	911	1410	1960	852	e690	880
18	1720	1190	2900	795	807	1280	880	5590	1730	844	e680	837
19	2630	1010	6120	804	850	2950	804	3400	1090	821	e690	e740
20	1340	951	5150	740	813	2220	808	1520	997	829	744	e720
21	1560	844	2450	719	821	1400	757	1100	1150	850	792	e720
22	2410	798	1930	717	808	1200	771	1350	1660	793	e700	e760
23	1270	787	1810	768	783	1070	816	896	2830	765	e690	e720
24	863	755	2020	772	741	994	710	1030	2420	731	e710	e710
25	733	717	2710	731	728	1060	759	987	1980	722	e700	e700
26	699	718	1190	677	718	1030	1660	4760	2260	721	e710	e880
27	685	658	1150	685	727	962	3750	8930	1520	723	e700	931
28	657	684	1240	767	820	1140	2010	5530	1130	748	e690	e780
29	636	707	1170	4710	---	1330	1150	2220	1070	716	e690	e720
30	627	2960	1150	8410	---	1120	919	5430	979	774	e710	e700
31	600	---	1080	5960	---	1030	---	10200	---	769	e700	---
TOTAL	67401	66452	130070	43029	32937	59827	43486	87600	60546	38576	22117	27806
MEAN	2174	2215	4196	1388	1176	1930	1450	2826	2018	1244	713	927
MAX	12600	10600	12600	8410	2320	7500	5500	10200	8820	5650	811	2700
MIN	453	658	1080	677	718	639	710	794	979	716	680	690
AC-FT	133700	131800	258000	85350	65330	118700	86250	173800	120100	76520	43870	55150

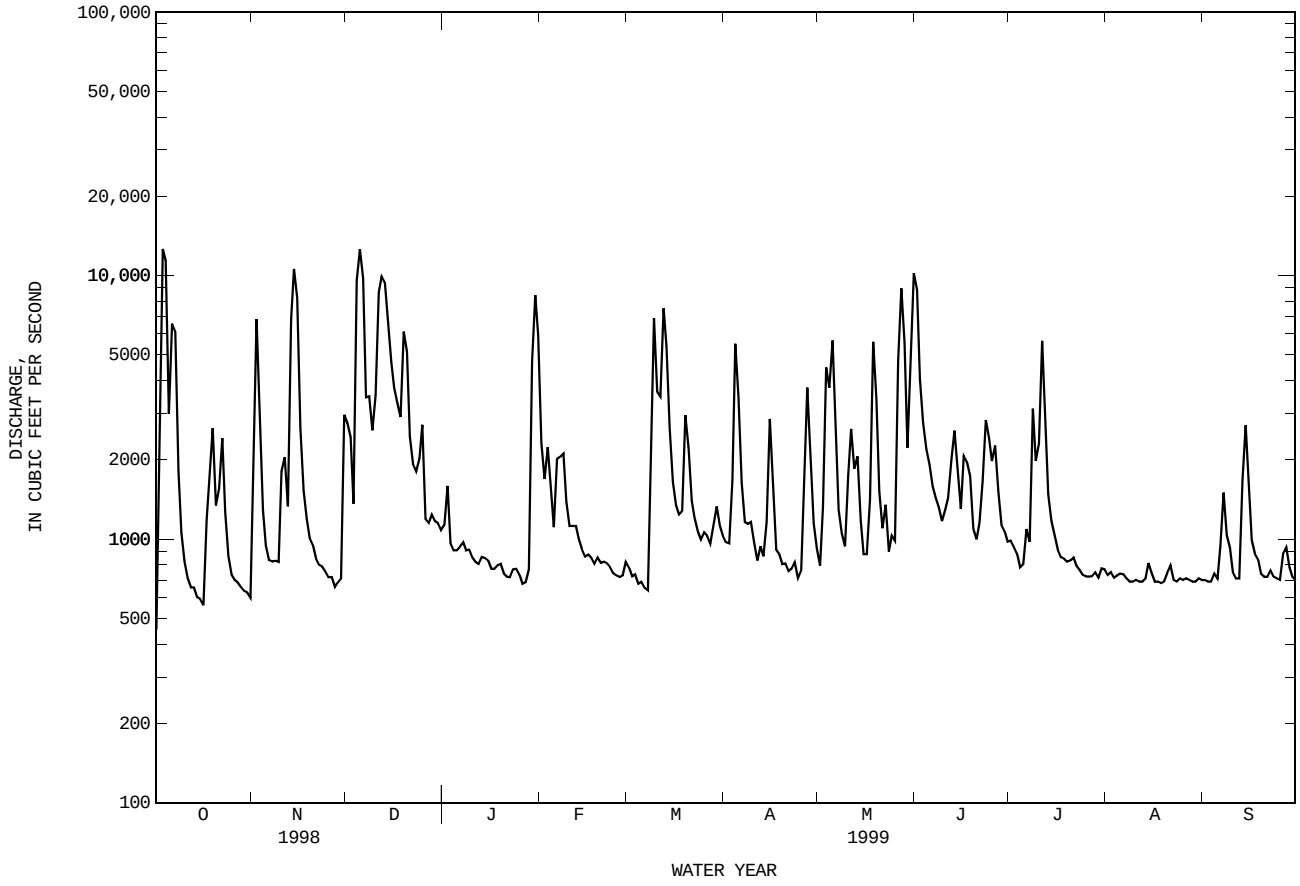
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 1999, BY WATER YEAR (WY)

MEAN	2174	2215	4196	1388	1176	1930	1450	2826	2018	1244	713	927
MAX	2174	2215	4196	1388	1176	1930	1450	2826	2018	1244	713	927
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	2174	2215	4196	1388	1176	1930	1450	2826	2018	1244	713	927
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 WATER YEAR	
ANNUAL TOTAL	679847	
ANNUAL MEAN	1863	
HIGHEST DAILY MEAN	12600	Oct 3
LOWEST DAILY MEAN	453	Oct 1
ANNUAL SEVEN-DAY MINIMUM	657	Oct 10
INSTANTANEOUS PEAK FLOW	14900	Oct 3
INSTANTANEOUS PEAK STAGE	22.69	Oct 3
INSTANTANEOUS LOW FLOW	453	Oct 1
ANNUAL RUNOFF (AC-FT)	1348000	
10 PERCENT EXCEEDS	3870	
50 PERCENT EXCEEDS	997	
90 PERCENT EXCEEDS	700	

e Estimated

08057448 TRINITY RIVER NEAR WILMER, TX--Continued



08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e690	2220	635	564	948	1120	1350	3810	751	1140	618	582
2	e700	1400	675	612	910	1010	1940	5950	722	1090	607	581
3	e710	1010	615	715	847	1590	1990	3330	834	1060	611	542
4	e700	841	845	687	819	1820	1350	5270	5560	989	634	494
5	e693	807	1080	643	889	1260	1010	3980	9670	912	625	585
6	770	770	825	642	1130	1030	905	1890	9580	894	595	591
7	988	752	623	719	930	981	864	1390	5860	885	621	540
8	758	711	547	2540	776	958	829	1110	4350	849	640	579
9	779	742	1210	3150	726	957	707	1030	3780	828	620	535
10	1110	692	1560	1570	708	1250	663	957	4890	846	633	506
11	979	685	1160	1020	712	2030	754	921	8760	835	608	557
12	801	681	7140	881	707	1690	3750	977	12600	769	591	829
13	776	685	8840	814	749	1190	4660	932	11000	761	581	1020
14	777	635	4480	771	766	992	1880	805	6260	e750	605	656
15	740	670	1630	698	749	963	1240	735	7890	741	577	633
16	740	584	1140	674	654	939	3200	718	9640	747	583	600
17	750	678	985	669	666	1020	4330	731	7180	759	568	560
18	894	649	2140	696	710	811	1960	729	8050	765	577	565
19	1620	655	2280	687	762	790	1240	3090	6310	756	571	562
20	1920	704	1270	693	705	769	1020	5260	4070	725	545	543
21	1240	637	987	693	695	751	895	3330	3370	695	552	547
22	996	632	835	720	693	2790	800	1450	3440	662	561	537
23	909	3530	753	680	4270	2460	763	1070	3070	681	566	546
24	867	2400	707	690	6770	1520	727	933	2040	647	490	595
25	818	1320	686	646	2510	1180	728	864	1790	655	618	741
26	829	865	619	632	4120	1390	697	808	2150	697	550	650
27	738	754	657	968	4470	2050	688	779	1520	649	538	551
28	709	693	676	2710	1850	1270	743	1100	3280	640	536	529
29	669	629	660	2030	1250	5450	680	1100	2340	620	554	528
30	1640	633	659	1290	---	4830	669	870	1320	604	490	498
31	3600	---	668	1070	---	1710	---	788	---	634	557	---
TOTAL	30910	28664	47587	31574	42491	48571	43032	56707	152077	24285	18022	17782
MEAN	997	955	1535	1019	1465	1567	1434	1829	5069	783	581	593
MAX	3600	3530	8840	3150	6770	5450	4660	5950	12600	1140	640	1020
MIN	669	584	547	564	654	751	663	718	722	604	490	494
AC-FT	61310	56860	94390	62630	84280	96340	85350	112500	301600	48170	35750	35270

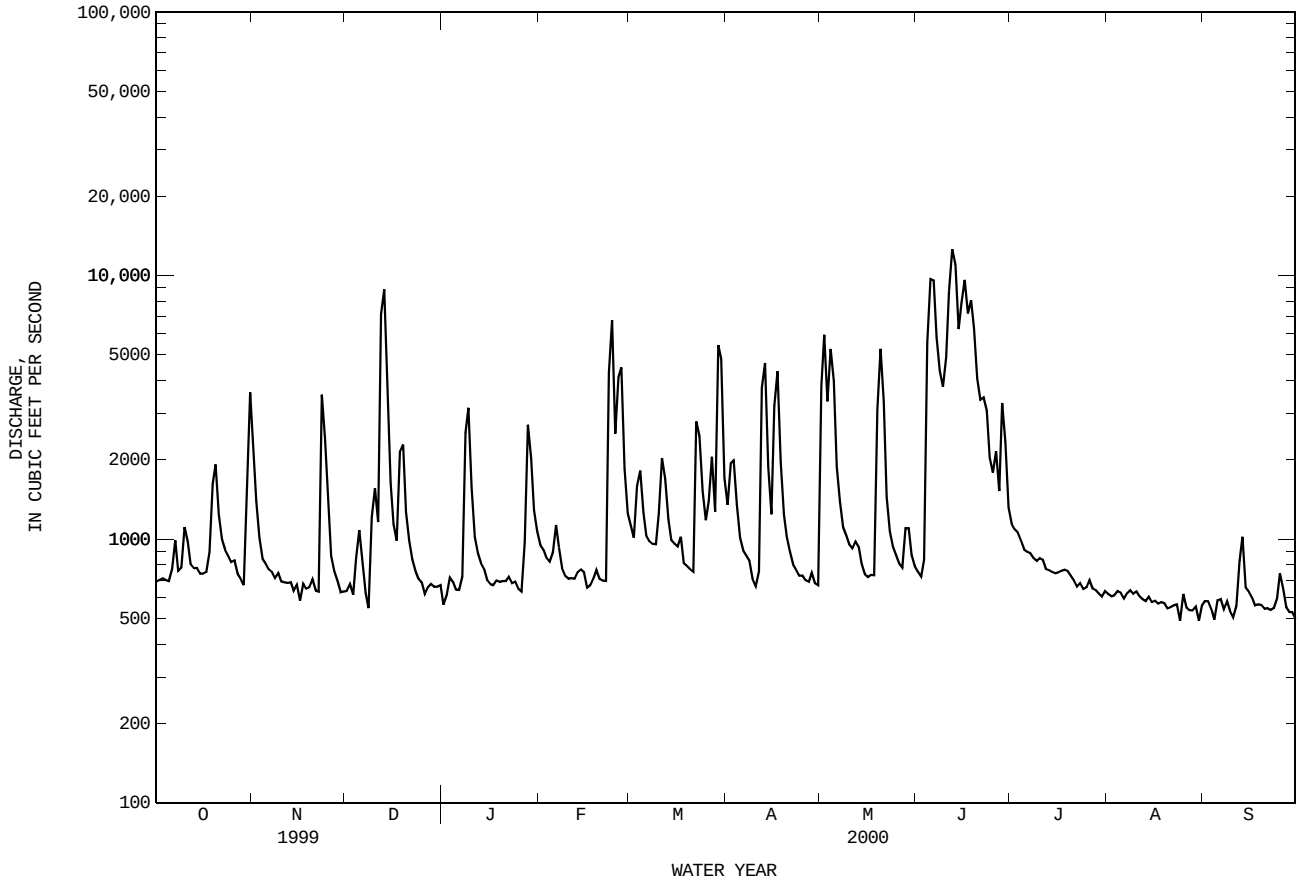
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	1586	1585	2865	1203	1323	1748	1442	2328	3544	1014	647	760
MAX	2174	2215	4196	1388	1465	1930	1450	2826	5069	1244	713	927
(WY)	1999	1999	1999	1999	2000	1999	1999	1999	2000	1999	1999	1999
MIN	997	955	1535	1019	1176	1567	1434	1829	2018	783	581	593
(WY)	2000	2000	2000	2000	1999	2000	2000	2000	1999	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	523085		541702			
ANNUAL MEAN	1433		1480		1671	
HIGHEST ANNUAL MEAN					1863	1999
LOWEST ANNUAL MEAN					1480	2000
HIGHEST DAILY MEAN	10200	May 31	12600	Jun 12	12600	Oct 3 1998
LOWEST DAILY MEAN	547	Dec 8	490	Aug 24	453	Oct 1 1998
ANNUAL SEVEN-DAY MINIMUM	648	Nov 16	539	Aug 24	539	Aug 24 2000
INSTANTANEOUS PEAK FLOW			12900	Jun 12	14900	Oct 3 1998
INSTANTANEOUS PEAK STAGE			20.94	Jun 12	22.69	Oct 3 1998
INSTANTANEOUS LOW FLOW			490	Aug 24	453	Oct 1 1998
ANNUAL RUNOFF (AC-FT)	1038000		1074000		1211000	
10 PERCENT EXCEEDS	2720		3470		3730	
50 PERCENT EXCEEDS	880		778		880	
90 PERCENT EXCEEDS	690		581		633	

e Estimated

08057448 TRINITY RIVER NEAR WILMER, TX--Continued



08057448 TRINITY RIVER NEAR WILMER, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1999 to Sep 2000.
pH: Oct 1999 to Sep 2000.
WATER TEMPERATURE: Oct 1999 to Sep 2000.
DISSOLVED OXYGEN: Oct 1999 to Sep 2000.

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

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 (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, 842 microsiemens, Aug 24, 2000; minimum, 199 microsiemens, May 19, 2000.
pH: Maximum, 8.5 units, May 19, 2000; minimum, 6.9 units, Jan 8, 2000.
WATER TEMPERATURE: Maximum, 31.9°C, Jul 21, Sep 4, 2000; minimum, 8.4°C, Jan 28, 2000.
DISSOLVED OXYGEN: Maximum, 10.3 mg/L, Jul 24, 2000; minimum, 2.9 mg/L, Aug 12, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 842 microsiemens, Aug 24; minimum, 199 microsiemens, May 19.
pH: Maximum, 8.5, May 19; minimum, 6.9, Jan 8.
WATER TEMPERATURE: Maximum, 31.9°C, Jul 21, Sep 4; minimum, 8.4°C, Jan 28.
DISSOLVED OXYGEN: Maximum, 10.3 mg/L, Jul 24; minimum, 2.9 mg/L, Aug 12.
WATER TEMPERATURE: Maximum, 31.9°C, Jul 21, Sep 4; minimum, 8.4°C, Jan 28.
DISSOLVED OXYGEN: Maximum, 10.3 mg/L, Jul 24; minimum, 2.9 mg/L, Aug 12.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	730	711	720	486	460	474	700	678	693	732	713	727
2	735	721	728	544	485	511	694	688	691	723	700	713
3	747	728	739	602	544	582	706	687	692	713	670	680
4	767	738	754	625	599	610	718	601	697	696	672	678
5	760	735	753	657	625	643	684	592	645	705	696	699
6	748	735	742	701	657	675	637	628	631	725	705	716
7	748	721	738	709	700	704	700	631	666	729	720	724
8	721	684	703	718	699	705	731	700	714	738	490	616
9	728	690	706	726	707	716	752	495	693	552	465	499
10	741	635	712	708	701	705	573	517	546	527	472	495
11	659	634	648	720	707	713	623	534	586	596	527	573
12	674	658	668	730	706	720	---	---	e475	649	592	620
13	692	673	685	754	704	727	---	---	e373	678	649	667
14	703	683	689	756	739	750	474	372	417	683	667	674
15	706	699	702	742	721	732	531	474	509	711	683	697
16	706	695	700	721	705	713	602	531	575	718	708	713
17	713	699	707	738	710	726	643	602	628	722	708	714
18	720	703	710	748	712	732	652	432	567	724	711	717
19	705	635	672	716	706	710	530	468	496	727	716	720
20	645	562	586	717	699	706	522	490	510	723	711	716
21	581	554	572	713	694	702	589	520	557	721	704	713
22	609	573	594	718	694	705	638	589	621	735	721	730
23	645	609	632	---	---	e615	684	637	662	728	718	723
24	660	639	648	---	---	e470	691	680	685	725	715	720
25	690	660	673	589	511	562	695	688	691	721	710	713
26	696	681	688	642	589	625	699	691	695	727	715	722
27	704	689	698	646	628	640	691	678	684	729	689	722
28	738	697	725	660	632	643	680	674	678	689	536	581
29	736	719	729	666	658	660	701	672	688	561	532	546
30	719	482	656	678	666	674	705	698	703	571	545	562
31	549	425	491	---	---	---	729	703	712	603	571	592
MONTH	767	425	683	---	---	662	---	---	619	738	465	667

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	638	603	627	653	617	635	640	600	629	787	405	571
2	677	638	663	671	652	662	645	536	611	472	408	436
3	688	665	678	685	623	659	---	---	---	500	380	468
4	702	681	690	643	558	583	614	596	602	444	380	426
5	702	692	697	635	573	606	678	598	642	458	423	434
6	741	699	718	664	635	653	705	676	694	550	457	512
7	727	652	706	675	649	667	749	705	731	608	538	582
8	665	644	653	698	666	688	763	736	753	659	608	638
9	691	665	675	692	680	686	779	729	749	699	659	681
10	734	691	708	695	513	668	811	779	795	720	699	712
11	734	725	729	653	572	616	812	789	798	743	708	728
12	738	727	733	622	586	610	795	494	581	753	728	739
13	744	733	738	614	607	611	524	465	486	737	723	731
14	750	737	744	654	613	632	570	486	526	743	715	728
15	737	720	728	684	654	674	654	570	623	778	743	763
16	753	731	736	710	680	699	658	409	535	778	768	772
17	776	753	768	710	658	694	499	428	450	799	773	786
18	779	758	769	731	658	703	547	447	509	793	778	784
19	766	750	760	747	731	739	627	547	596	794	199	563
20	755	747	750	746	731	740	684	627	658	488	302	432
21	753	749	751	749	740	744	707	683	698	478	431	456
22	752	745	747	747	452	588	753	706	737	537	478	509
23	745	406	571	591	533	564	775	749	762	628	537	603
24	471	318	436	610	585	594	767	749	755	679	623	652
25	556	471	513	647	610	631	759	740	747	731	679	709
26	574	418	499	673	616	650	775	759	764	734	714	723
27	---	---	---	681	616	654	776	764	770	754	734	744
28	---	---	---	679	583	613	774	751	761	754	628	692
29	---	---	---	619	306	435	786	770	778	703	644	677
30	---	---	---	480	371	426	787	783	785	683	643	662
31	---	---	---	600	479	543	---	---	---	742	683	713
MONTH	---	---	---	749	306	634	---	---	---	799	199	633

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	742	731	737	677	590	641	800	778	784	812	795	804
2	754	731	740	699	677	692	786	779	783	812	787	798
3	754	699	742	716	698	707	801	782	795	801	791	796
4	---	---	---	703	696	701	799	773	787	800	791	796
5	---	---	---	722	696	712	807	785	798	813	789	800
6	---	---	---	722	706	716	812	800	807	791	753	777
7	---	---	---	724	704	712	806	797	801	800	784	792
8	---	---	---	748	724	734	809	786	796	798	784	790
9	---	---	---	748	737	743	797	779	788	799	782	792
10	---	---	---	750	737	743	803	778	789	789	770	781
11	---	---	---	745	737	741	785	774	779	779	769	774
12	---	---	---	---	---	e740	791	761	785	776	633	754
13	---	---	---	---	---	e745	800	787	794	692	485	e750
14	---	---	---	---	---	e748	808	784	794	---	---	e745
15	---	---	---	---	---	e750	801	785	792	---	---	e730
16	---	---	---	---	---	e752	795	780	788	744	728	734
17	---	---	---	---	---	e753	802	780	793	746	739	744
18	---	---	---	---	---	e754	808	784	797	763	744	753
19	---	---	---	---	---	e755	794	785	791	757	747	753
20	---	---	---	---	---	e760	825	794	812	754	743	749
21	---	---	---	---	---	e766	819	801	811	772	754	762
22	---	---	---	783	768	772	805	782	792	777	760	768
23	---	---	---	783	762	773	796	785	790	778	750	762
24	---	---	---	794	765	782	842	788	812	771	756	764
25	---	---	---	794	748	778	835	791	800	762	692	733
26	---	---	---	769	748	758	801	786	790	741	687	702
27	---	---	---	786	769	779	813	793	805	744	700	727
28	---	---	---	800	783	791	811	804	808	747	739	743
29	---	---	---	811	791	803	814	784	795	743	727	732
30	590	521	555	828	800	817	806	789	798	745	731	736
31	---	---	---	825	794	808	839	792	811	---	---	---
MONTH	---	---	---	---	---	749	842	761	796	---	---	761

e Estimated

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.7	7.6	7.5	7.8	7.4	7.3	7.0	7.6	7.4	8.1	7.9
2	8.0	7.7	7.5	7.4	7.7	7.3	7.3	7.1	7.6	7.5	8.1	7.9
3	7.9	7.8	7.5	7.4	7.7	7.2	7.3	7.1	7.5	7.4	8.2	7.7
4	8.0	7.8	7.5	7.4	8.1	7.2	7.4	7.2	7.5	7.3	8.2	8.1
5	8.0	7.8	7.5	7.4	7.8	7.4	7.3	7.2	7.6	7.4	8.2	7.9
6	7.8	7.8	7.5	7.4	7.8	7.7	7.4	7.2	7.7	7.4	8.2	8.0
7	7.9	7.8	7.5	7.4	7.8	7.6	7.3	7.2	7.7	7.6	8.2	7.8
8	7.9	7.7	7.5	7.4	7.7	7.4	7.2	6.9	7.7	7.5	8.1	7.7
9	7.8	7.5	7.5	7.4	---	---	7.8	7.0	7.6	7.4	8.1	7.6
10	8.0	7.5	7.4	7.4	---	---	7.7	7.1	7.5	7.3	8.0	7.6
11	7.8	7.5	7.4	7.3	---	---	7.2	7.0	7.4	7.1	7.9	7.8
12	7.6	7.5	7.4	7.3	---	---	7.8	7.0	7.3	7.0	8.0	7.7
13	7.6	7.4	7.4	7.3	---	---	7.4	7.2	7.4	7.2	7.9	7.6
14	7.6	7.5	7.4	7.3	---	---	7.5	7.2	7.5	7.1	7.9	7.7
15	7.6	7.4	7.4	7.4	---	---	7.5	7.1	7.7	7.3	7.9	7.6
16	7.6	7.5	7.4	7.3	---	---	7.5	7.4	7.6	7.4	7.9	7.7
17	7.6	7.4	7.4	7.2	---	---	7.6	7.4	7.5	7.3	8.0	7.7
18	8.1	7.4	7.3	7.2	---	---	7.5	7.4	7.3	7.1	8.1	7.6
19	7.9	7.6	7.3	7.3	---	---	7.6	7.4	7.5	7.2	8.1	7.7
20	8.0	7.8	7.3	7.2	---	---	7.5	7.4	7.6	7.3	7.9	7.8
21	8.1	7.7	7.3	7.2	7.5	7.3	7.6	7.5	7.6	7.3	8.1	7.8
22	7.9	7.5	7.3	7.2	7.3	7.2	7.6	7.4	7.5	7.3	8.2	8.0
23	7.8	7.5	8.0	7.3	7.3	7.2	7.6	7.4	7.8	7.3	8.1	8.0
24	8.1	7.5	8.0	7.8	7.3	7.2	7.6	7.4	7.9	7.6	8.0	7.8
25	7.9	7.5	7.8	7.7	7.3	7.2	7.6	7.4	7.7	7.6	8.0	7.8
26	8.0	7.5	7.7	7.5	7.4	7.3	7.5	7.4	7.8	7.6	7.9	7.8
27	7.9	7.4	7.8	7.6	7.3	7.3	7.6	7.3	8.1	7.6	8.0	7.9
28	8.0	7.4	7.8	7.4	7.3	7.2	7.7	7.5	8.2	7.9	8.0	7.7
29	7.4	7.3	7.7	7.4	7.4	7.2	7.7	7.6	8.2	7.8	8.2	7.8
30	7.4	7.3	7.8	7.4	7.3	7.2	7.7	7.5	---	---	8.2	8.0
31	7.6	7.4	---	---	7.2	7.1	7.6	7.5	---	---	8.2	8.0
MONTH	8.2	7.3	8.0	7.2	---	---	7.8	6.9	8.2	7.0	8.2	7.6

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

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.6	23.5	24.1	19.7	18.8	19.2	18.0	17.2	17.5	16.5	15.2	15.8
2	25.0	23.6	24.4	19.5	18.6	19.2	18.6	17.5	18.0	17.6	16.5	17.1
3	26.2	24.5	25.3	18.6	18.0	18.2	19.9	18.6	19.3	17.5	16.5	17.1
4	25.9	24.8	25.3	19.0	17.6	18.2	20.3	19.4	19.9	16.5	14.8	15.4
5	25.3	24.3	24.8	20.3	18.7	19.6	19.4	17.1	18.3	14.8	13.3	13.8
6	25.3	24.3	24.8	21.5	20.2	20.9	17.1	15.6	16.0	14.8	13.1	13.7
7	24.9	23.8	24.4	22.0	21.0	21.5	16.1	14.6	15.5	15.5	14.5	15.0
8	24.9	23.9	24.4	22.2	21.4	21.8	17.1	15.9	16.4	15.5	12.8	14.4
9	25.6	24.3	24.9	22.2	21.4	21.9	17.9	16.8	17.5	13.3	12.3	12.7
10	25.7	24.8	25.2	22.2	21.3	21.8	16.8	14.8	15.9	13.6	12.3	13.0
11	25.7	24.5	25.1	22.5	21.4	22.0	15.3	14.8	15.1	14.9	13.4	14.2
12	26.1	25.0	25.5	22.8	21.6	22.3	15.2	11.7	12.5	16.7	14.4	15.5
13	26.3	24.9	25.7	22.7	21.7	22.2	12.7	12.0	12.2	17.2	16.5	16.8
14	26.3	25.0	25.7	22.4	21.6	22.1	12.6	11.8	12.1	16.8	15.7	16.2
15	26.2	25.1	25.7	22.4	21.4	22.0	12.8	12.2	12.6	16.2	15.0	15.7
16	26.1	25.2	25.7	22.2	21.3	21.7	13.3	12.2	12.8	17.5	15.8	16.6
17	25.9	23.5	24.7	22.0	20.8	21.5	14.2	13.0	13.6	18.3	17.0	17.6
18	23.5	21.6	22.4	21.8	21.1	21.4	14.8	13.3	14.1	18.9	17.8	18.4
19	21.6	20.3	20.8	22.0	21.1	21.5	13.8	12.9	13.4	18.8	18.0	18.4
20	20.7	19.5	20.2	21.5	20.6	21.0	13.8	13.1	13.5	18.7	16.8	17.6
21	20.8	20.0	20.4	20.6	19.8	20.1	13.1	12.4	12.9	16.8	15.4	15.9
22	21.5	20.4	20.9	21.5	19.9	20.7	13.5	12.5	13.0	16.4	15.1	15.8
23	21.9	21.2	21.5	21.5	19.1	20.1	13.9	12.7	13.4	16.7	15.6	16.2
24	21.3	20.5	21.0	19.1	17.3	18.0	14.2	13.2	13.8	16.5	15.3	15.8
25	21.2	20.1	20.7	17.6	17.3	17.4	14.6	13.5	14.2	15.8	14.5	15.0
26	21.9	20.5	21.2	17.5	16.9	17.2	15.0	13.5	14.2	14.9	13.9	14.3
27	22.5	21.1	21.9	17.8	16.7	17.3	15.2	14.3	14.8	13.9	10.5	12.6
28	22.6	21.5	22.2	18.4	17.2	17.8	15.2	14.1	14.7	10.5	8.4	9.1
29	23.0	22.2	22.6	18.7	17.8	18.3	15.5	13.9	14.6	9.0	8.5	8.9
30	22.7	20.1	21.9	18.5	17.7	18.1	16.0	15.0	15.5	10.3	8.8	9.4
31	20.1	19.0	19.4	---	---	---	16.4	15.3	15.9	11.5	10.0	10.8
MONTH	26.3	19.0	23.3	22.8	16.7	20.2	20.3	11.7	14.9	18.9	8.4	14.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	11.4	12.4	19.2	18.3	18.8	19.5	19.3	19.4	23.7	20.5	21.8
2	14.0	12.6	13.2	19.1	18.7	18.9	19.3	18.5	18.8	21.6	21.0	21.2
3	14.6	13.1	13.9	18.7	17.0	18.0	18.6	18.1	18.4	22.3	21.0	21.8
4	15.0	13.9	14.5	17.0	16.0	16.5	18.5	17.6	18.1	21.3	20.2	21.0
5	14.6	13.5	13.9	17.3	16.2	16.7	19.5	17.9	18.7	21.8	21.2	21.5
6	14.1	13.2	13.7	18.5	17.1	17.8	21.1	19.3	20.1	22.8	21.4	22.0
7	15.6	14.1	14.9	19.7	18.5	19.2	22.6	20.7	21.6	24.4	22.7	23.5
8	15.8	14.6	15.2	20.3	19.6	19.9	22.0	20.7	21.3	25.9	24.1	24.9
9	16.6	15.1	15.9	20.5	19.2	19.9	20.8	19.4	20.0	25.6	24.8	25.3
10	17.9	16.1	17.0	20.0	16.9	19.2	20.0	19.4	19.7	24.8	24.2	24.6
11	18.5	17.4	18.0	17.8	16.2	17.0	21.1	19.8	20.3	26.1	24.4	25.2
12	18.0	17.1	17.5	17.2	16.0	16.5	20.9	18.2	19.5	27.1	25.7	26.3
13	17.9	16.8	17.4	17.9	16.5	17.1	18.2	17.9	18.1	26.7	25.9	26.3
14	17.6	16.7	17.1	18.2	17.5	17.9	19.1	18.1	18.6	25.9	24.6	25.2
15	17.5	16.1	16.8	19.1	18.2	18.6	20.4	18.9	19.6	25.6	24.0	24.9
16	18.7	17.2	17.9	20.4	18.9	19.7	20.5	17.2	19.1	26.1	24.7	25.4
17	19.6	18.6	19.0	19.8	17.1	18.6	19.5	18.8	19.3	26.5	25.1	25.8
18	20.3	19.5	19.8	17.4	16.6	17.0	21.9	19.4	20.6	26.2	25.4	25.9
19	19.5	17.8	18.5	17.7	16.3	17.1	23.3	21.7	22.6	26.1	22.7	24.3
20	17.8	16.6	17.2	18.3	16.8	17.6	23.7	22.8	23.2	22.9	22.0	22.5
21	17.5	16.6	17.1	18.5	17.7	18.1	23.4	22.3	22.9	24.5	22.9	23.8
22	18.3	17.3	17.8	18.2	16.2	17.2	23.2	22.1	22.7	26.5	24.4	25.3
23	18.1	16.1	17.0	17.8	16.9	17.4	23.7	22.2	22.9	27.7	26.0	26.8
24	16.7	15.9	16.2	19.3	17.7	18.5	23.9	22.5	23.2	28.5	26.8	27.7
25	18.6	16.7	17.7	21.5	19.1	20.3	24.0	22.4	23.3	29.1	27.7	28.3
26	18.9	17.4	18.4	21.9	21.0	21.5	24.8	23.0	23.9	28.8	28.0	28.4
27	17.4	16.1	16.9	22.4	21.5	21.9	24.5	23.6	23.9	28.6	27.6	28.0
28	17.4	15.9	16.6	22.2	21.0	21.6	24.1	22.8	23.5	28.5	27.0	27.8
29	18.8	16.2	18.0	22.1	19.8	21.2	24.3	22.9	23.6	28.9	27.5	28.1
30	---	---	---	21.0	19.5	20.4	24.1	23.5	23.9	29.3	27.8	28.6
31	---	---	---	19.5	19.0	19.3	---	---	---	29.9	28.4	29.1
MONTH	20.3	11.4	16.5	22.4	16.0	18.7	24.8	17.2	21.0	29.9	20.2	25.2

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.7	28.5	29.1	28.3	27.7	28.0	30.5	29.0	29.8	31.2	30.0	30.7
2	29.5	28.2	28.9	29.0	27.7	28.3	30.8	29.2	30.0	31.4	30.2	30.9
3	29.0	27.9	28.4	29.5	28.2	28.8	31.1	29.5	30.4	31.7	30.2	31.0
4	---	---	---	29.7	28.5	29.1	31.5	29.8	30.7	31.9	30.4	31.2
5	---	---	---	30.2	28.7	29.4	31.5	30.0	30.8	31.4	30.5	31.0
6	---	---	---	30.4	28.9	29.7	31.4	29.8	30.7	30.8	29.6	30.1
7	---	---	---	30.8	29.2	30.0	31.4	29.9	30.7	30.1	28.9	29.6
8	---	---	---	31.1	29.5	30.3	31.3	29.8	30.6	29.6	28.6	29.0
9	---	---	---	31.4	29.9	30.7	31.1	29.8	30.5	29.4	28.3	28.9
10	---	---	---	31.3	29.8	30.6	31.3	29.7	30.5	30.1	28.6	29.4
11	---	---	---	31.1	29.7	30.5	31.4	29.8	30.7	30.5	29.1	29.8
12	---	---	---	---	---	---	31.7	30.2	31.0	30.2	28.1	29.6
13	---	---	---	---	---	---	31.4	30.2	30.9	28.4	26.6	27.5
14	---	---	---	---	---	---	30.8	29.5	30.3	---	---	---
15	---	---	---	---	---	---	30.8	29.4	30.2	---	---	---
16	---	---	---	---	---	---	31.4	29.7	30.6	29.4	28.2	28.7
17	---	---	---	---	---	---	31.6	30.0	30.8	28.2	26.9	27.5
18	---	---	---	---	---	---	31.8	30.2	31.0	27.5	26.1	26.8
19	---	---	---	---	---	---	31.6	30.3	31.0	27.3	25.9	26.7
20	---	---	---	---	---	---	31.1	29.6	30.4	27.9	26.4	27.2
21	---	---	---	31.9	30.3	31.1	30.9	29.5	30.3	27.7	26.6	27.3
22	---	---	---	31.7	30.4	31.1	31.1	29.6	30.4	28.2	27.0	27.6
23	---	---	---	31.0	30.0	30.6	31.2	29.8	30.5	28.9	27.6	28.3
24	---	---	---	30.6	29.1	29.9	31.2	29.8	30.5	28.8	26.9	28.1
25	---	---	---	30.1	28.7	29.5	31.4	29.9	30.8	26.9	24.3	25.2
26	---	---	---	30.3	28.6	29.5	31.5	30.1	30.8	24.3	23.1	23.6
27	---	---	---	30.1	29.1	29.7	31.4	29.9	30.8	24.5	22.9	23.6
28	---	---	---	30.2	28.9	29.6	31.3	29.9	30.6	25.0	23.5	24.3
29	---	---	---	30.0	29.0	29.5	31.2	29.7	30.6	25.4	24.0	24.7
30	28.7	28.1	28.3	30.3	29.0	29.7	31.2	29.7	30.6	25.5	24.1	24.9
31	---	---	---	30.4	29.1	29.8	31.2	29.7	30.6	---	---	---
MONTH	---	---	---	---	---	---	31.8	29.0	30.6	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	5.9	6.1	5.8	5.4	5.6	---	---	---	9.2	7.6	8.2
2	6.3	5.5	5.9	6.3	5.7	6.0	---	---	---	8.1	7.4	7.6
3	5.8	5.2	5.5	6.5	6.2	6.3	---	---	---	7.8	7.4	7.6
4	---	---	---	6.3	6.0	6.2	---	---	---	8.2	7.7	8.0
5	---	---	---	6.0	5.7	5.9	---	---	---	8.6	8.0	8.3
6	---	---	---	5.7	5.2	5.5	---	---	---	8.8	8.2	8.4
7	---	---	---	5.2	5.0	5.2	---	---	---	8.2	7.8	8.0
8	---	---	---	5.1	4.9	5.0	---	---	---	8.4	7.4	7.9
9	6.9	6.1	6.3	5.2	4.9	5.0	---	---	---	8.6	7.9	8.3
10	6.4	6.0	6.2	5.2	4.8	5.0	---	---	---	8.2	7.7	8.0
11	6.6	5.8	6.1	5.3	4.7	5.0	---	---	---	---	---	---
12	6.3	5.7	6.0	5.4	4.7	5.0	---	---	---	---	---	---
13	6.3	6.0	6.2	5.4	5.1	5.2	---	---	---	8.1	7.7	7.9
14	6.7	6.0	6.5	5.5	5.0	5.2	---	---	---	8.2	7.8	8.0
15	6.6	6.1	6.4	5.5	5.2	5.3	---	---	---	8.2	7.8	8.1
16	6.5	6.1	6.3	5.7	5.2	5.4	---	---	---	8.2	7.7	8.0
17	6.7	6.4	6.5	5.4	5.1	5.3	---	---	---	7.8	7.5	7.7
18	6.8	6.4	6.5	5.3	5.0	5.1	---	---	---	7.5	7.2	7.3
19	6.8	4.5	6.0	5.1	4.8	5.0	---	---	---	7.3	6.9	7.1
20	6.3	5.6	6.1	4.9	4.7	4.8	---	---	---	7.8	6.9	7.3
21	6.5	6.1	6.3	4.8	4.5	4.6	9.2	8.9	9.0	8.1	7.3	7.8
22	6.3	6.0	6.2	4.8	4.4	4.6	9.1	8.9	9.0	8.0	7.6	7.8
23	6.0	5.6	5.8	6.6	3.4	4.7	9.1	8.8	9.0	7.7	7.3	7.5
24	6.1	5.8	5.9	4.9	4.5	4.7	9.0	8.8	8.9	7.5	7.2	7.3
25	6.4	5.9	6.1	5.1	4.9	5.0	8.9	8.7	8.8	7.6	7.2	7.3
26	6.5	6.1	6.3	4.9	4.8	4.9	9.0	8.7	8.8	7.4	6.9	7.3
27	6.5	6.2	6.4	5.1	4.9	5.0	8.8	8.5	8.7	7.5	7.0	7.2
28	6.6	5.8	6.3	5.0	4.8	4.9	8.8	8.5	8.6	8.9	7.3	8.2
29	6.8	6.2	6.5	5.0	4.6	4.8	8.6	8.2	8.5	8.9	8.6	8.7
30	6.7	4.4	6.0	5.0	4.8	4.9	8.4	8.1	8.2	8.8	8.3	8.6
31	5.9	4.8	5.5	---	---	---	8.1	7.7	7.9	8.3	7.6	8.0
MONTH	---	---	---	6.6	3.4	5.2	---	---	---	---	---	---

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	7.2	7.3	7.1	6.7	6.9	7.5	7.1	7.3	5.5	4.3	5.0
2	7.2	6.9	7.1	7.0	6.8	6.9	7.3	5.8	6.9	5.8	4.4	5.0
3	7.1	6.8	6.9	7.0	6.4	6.8	---	---	---	---	---	---
4	7.1	6.7	6.8	7.0	6.8	6.9	8.1	7.6	7.9	---	---	---
5	7.2	6.8	7.0	7.4	6.9	7.1	8.2	7.7	8.0	---	---	---
6	7.1	6.7	6.9	7.4	7.2	7.3	8.0	7.7	7.8	---	---	---
7	6.9	6.5	6.7	7.4	6.9	7.1	7.9	7.2	7.6	---	---	---
8	7.0	6.5	6.8	6.9	6.6	6.8	7.6	7.1	7.3	---	---	---
9	6.8	6.4	6.6	7.0	6.5	6.7	8.3	7.4	7.8	---	---	---
10	7.1	6.4	6.7	6.6	5.5	6.2	8.4	7.8	8.0	---	---	---
11	6.5	5.9	6.2	5.9	4.6	5.3	8.4	7.8	8.1	8.2	6.8	7.5
12	5.9	5.6	5.8	6.4	4.6	6.0	7.9	6.3	7.2	7.7	6.9	7.3
13	6.1	5.7	5.9	6.4	6.0	6.2	7.6	6.9	7.2	8.1	6.5	7.2
14	6.9	5.9	6.4	6.3	5.7	5.8	7.6	7.2	7.5	8.8	6.6	7.6
15	6.7	6.2	6.4	5.7	5.3	5.5	7.7	7.2	7.5	8.6	7.0	7.9
16	6.4	5.8	6.1	6.1	5.4	5.7	7.5	6.8	7.3	8.2	7.2	7.6
17	6.2	5.3	5.7	6.7	6.0	6.4	7.2	6.8	7.0	7.6	6.3	7.0
18	5.5	5.1	5.3	7.2	6.5	6.8	7.4	6.9	7.3	7.2	6.4	6.8
19	5.9	5.1	5.5	7.2	6.8	7.0	7.2	6.7	7.0	6.6	4.3	5.7
20	5.7	5.2	5.5	7.4	6.8	7.1	7.3	7.1	7.2	6.1	5.7	5.8
21	5.4	4.7	5.2	7.3	6.6	6.9	7.2	6.7	7.0	5.8	5.5	5.6
22	5.2	4.1	4.8	7.5	6.0	6.8	7.1	6.5	6.8	5.8	5.5	5.7
23	5.2	4.1	4.5	7.4	6.0	7.1	7.1	6.3	6.7	6.4	5.5	6.1
24	6.1	5.1	5.7	7.5	7.2	7.3	7.1	6.4	6.7	7.2	5.9	6.5
25	6.1	5.7	5.9	7.5	7.2	7.3	6.8	6.1	6.5	7.0	5.7	6.4
26	6.3	5.5	5.9	7.2	6.4	7.0	6.8	5.7	6.4	6.7	5.8	6.2
27	7.3	6.2	6.9	7.0	6.2	6.7	6.5	5.6	5.9	6.0	5.2	5.5
28	8.4	7.1	7.9	7.0	6.7	6.8	5.6	5.2	5.4	5.6	4.6	5.1
29	7.9	6.8	7.1	7.0	4.2	5.4	5.5	4.8	5.1	5.8	5.0	5.4
30	---	---	---	6.1	4.8	5.3	5.2	4.6	4.9	6.1	5.1	5.5
31	---	---	---	7.2	6.1	6.8	---	---	---	5.9	5.2	5.6
MONTH	8.4	4.1	6.3	7.5	4.2	6.6	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.8	5.2	5.6	6.9	5.8	6.3	7.3	6.3	6.8	5.3	4.7	5.0
2	5.9	5.2	5.5	7.2	6.3	6.7	7.4	5.5	6.4	5.1	4.6	4.8
3	5.7	4.9	5.4	7.4	6.3	6.8	6.9	5.6	6.2	5.1	4.7	4.9
4	---	---	---	7.2	6.3	6.7	6.8	6.0	6.3	5.3	4.8	5.0
5	---	---	---	7.0	6.2	6.6	6.2	5.7	6.0	5.1	4.5	4.8
6	---	---	---	6.9	6.0	6.4	6.2	5.7	5.9	5.0	4.5	4.7
7	---	---	---	6.6	6.0	6.3	6.0	5.5	5.8	5.3	4.6	4.9
8	---	---	---	6.4	5.8	6.1	5.9	5.4	5.6	5.6	5.3	5.5
9	---	---	---	6.2	5.7	5.9	5.4	5.0	5.2	5.7	5.2	5.4
10	---	---	---	6.1	5.6	5.9	5.5	5.0	5.2	5.5	5.0	5.3
11	---	---	---	6.1	5.4	5.8	5.2	4.7	4.9	5.5	4.9	5.1
12	---	---	---	---	---	---	5.1	2.9	4.8	5.2	4.7	5.0
13	---	---	---	---	---	---	5.1	4.6	4.8	---	---	---
14	---	---	---	---	---	---	5.4	5.0	5.2	---	---	---
15	---	---	---	---	---	---	5.5	4.9	5.2	---	---	---
16	---	---	---	---	---	---	5.2	4.7	5.0	6.1	5.1	5.6
17	---	---	---	---	---	---	5.2	4.5	4.8	6.5	5.2	5.7
18	---	---	---	---	---	---	5.1	4.8	4.9	6.4	5.5	6.0
19	---	---	---	---	---	---	5.0	4.6	4.8	6.4	5.7	6.0
20	---	---	---	---	---	---	4.9	4.2	4.7	6.4	5.9	6.1
21	---	---	---	---	---	---	5.3	4.8	5.1	6.2	5.8	6.0
22	---	---	---	5.4	5.0	5.2	5.4	4.8	5.1	6.2	5.8	5.9
23	---	---	---	---	---	---	5.1	4.8	5.0	6.2	5.7	6.0
24	---	---	---	---	---	---	5.2	4.8	5.0	6.8	5.9	6.3
25	---	---	---	10.3	8.6	9.4	5.2	4.9	5.0	7.2	6.0	6.6
26	---	---	---	9.6	8.4	8.9	5.2	4.7	5.0	7.8	7.0	7.6
27	---	---	---	8.8	7.0	7.7	5.5	4.8	5.1	7.9	7.4	7.6
28	---	---	---	7.5	5.7	6.2	5.4	4.8	5.1	7.6	7.2	7.4
29	---	---	---	6.2	5.4	5.7	5.6	4.9	5.2	7.6	7.3	7.5
30	6.1	5.5	5.8	6.7	5.1	6.0	6.0	4.9	5.1	7.8	7.2	7.5
31	---	---	---	6.3	4.9	5.3	5.3	4.7	5.0	---	---	---
MONTH	---	---	---	---	---	---	7.4	2.9	5.3	---	---	---

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.6	23.5	24.1	19.7	18.8	19.2	18.0	17.2	17.5	16.5	15.2	15.8
2	25.0	23.6	24.4	19.5	18.6	19.2	18.6	17.5	18.0	17.6	16.5	17.1
3	26.2	24.5	25.3	18.6	18.0	18.2	19.9	18.6	19.3	17.5	16.5	17.1
4	25.9	24.8	25.3	19.0	17.6	18.2	20.3	19.4	19.9	16.5	14.8	15.4
5	25.3	24.3	24.8	20.3	18.7	19.6	19.4	17.1	18.3	14.8	13.3	13.8
6	25.3	24.3	24.8	21.5	20.2	20.9	17.1	15.6	16.0	14.8	13.1	13.7
7	24.9	23.8	24.4	22.0	21.0	21.5	16.1	14.6	15.5	15.5	14.5	15.0
8	24.9	23.9	24.4	22.2	21.4	21.8	17.1	15.9	16.4	15.5	12.8	14.4
9	25.6	24.3	24.9	22.2	21.4	21.9	17.9	16.8	17.5	13.3	12.3	12.7
10	25.7	24.8	25.2	22.2	21.3	21.8	16.8	14.8	15.9	13.6	12.3	13.0
11	25.7	24.5	25.1	22.5	21.4	22.0	15.3	14.8	15.1	14.9	13.4	14.2
12	26.1	25.0	25.5	22.8	21.6	22.3	15.2	11.7	12.5	16.7	14.4	15.5
13	26.3	24.9	25.7	22.7	21.7	22.2	12.7	12.0	12.2	17.2	16.5	16.8
14	26.3	25.0	25.7	22.4	21.6	22.1	12.6	11.8	12.1	16.8	15.7	16.2
15	26.2	25.1	25.7	22.4	21.4	22.0	12.8	12.2	12.6	16.2	15.0	15.7
16	26.1	25.2	25.7	22.2	21.3	21.7	13.3	12.2	12.8	17.5	15.8	16.6
17	25.9	23.5	24.7	22.0	20.8	21.5	14.2	13.0	13.6	18.3	17.0	17.6
18	23.5	21.6	22.4	21.8	21.1	21.4	14.8	13.3	14.1	18.9	17.8	18.4
19	21.6	20.3	20.8	22.0	21.1	21.5	13.8	12.9	13.4	18.8	18.0	18.4
20	20.7	19.5	20.2	21.5	20.6	21.0	13.8	13.1	13.5	18.7	16.8	17.6
21	20.8	20.0	20.4	20.6	19.8	20.1	13.1	12.4	12.9	16.8	15.4	15.9
22	21.5	20.4	20.9	21.5	19.9	20.7	13.5	12.5	13.0	16.4	15.1	15.8
23	21.9	21.2	21.5	21.5	19.1	20.1	13.9	12.7	13.4	16.7	15.6	16.2
24	21.3	20.5	21.0	19.1	17.3	18.0	14.2	13.2	13.8	16.5	15.3	15.8
25	21.2	20.1	20.7	17.6	17.3	17.4	14.6	13.5	14.2	15.8	14.5	15.0
26	21.9	20.5	21.2	17.5	16.9	17.2	15.0	13.5	14.2	14.9	13.9	14.3
27	22.5	21.1	21.9	17.8	16.7	17.3	15.2	14.3	14.8	13.9	10.5	12.6
28	22.6	21.5	22.2	18.4	17.2	17.8	15.2	14.1	14.7	10.5	8.4	9.1
29	23.0	22.2	22.6	18.7	17.8	18.3	15.5	13.9	14.6	9.0	8.5	8.9
30	22.7	20.1	21.9	18.5	17.7	18.1	16.0	15.0	15.5	10.3	8.8	9.4
31	20.1	19.0	19.4	---	---	---	16.4	15.3	15.9	11.5	10.0	10.8
MONTH	26.3	19.0	23.3	22.8	16.7	20.2	20.3	11.7	14.9	18.9	8.4	14.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	11.4	12.4	19.2	18.3	18.8	19.5	19.3	19.4	23.7	20.5	21.8
2	14.0	12.6	13.2	19.1	18.7	18.9	19.3	18.5	18.8	21.6	21.0	21.2
3	14.6	13.1	13.9	18.7	17.0	18.0	18.6	18.1	18.4	22.3	21.0	21.8
4	15.0	13.9	14.5	17.0	16.0	16.5	18.5	17.6	18.1	21.3	20.2	21.0
5	14.6	13.5	13.9	17.3	16.2	16.7	19.5	17.9	18.7	21.8	21.2	21.5
6	14.1	13.2	13.7	18.5	17.1	17.8	21.1	19.3	20.1	22.8	21.4	22.0
7	15.6	14.1	14.9	19.7	18.5	19.2	22.6	20.7	21.6	24.4	22.7	23.5
8	15.8	14.6	15.2	20.3	19.6	19.9	22.0	20.7	21.3	25.9	24.1	24.9
9	16.6	15.1	15.9	20.5	19.2	19.9	20.8	19.4	20.0	25.6	24.8	25.3
10	17.9	16.1	17.0	20.0	16.9	19.2	20.0	19.4	19.7	24.8	24.2	24.6
11	18.5	17.4	18.0	17.8	16.2	17.0	21.1	19.8	20.3	26.1	24.4	25.2
12	18.0	17.1	17.5	17.2	16.0	16.5	20.9	18.2	19.5	27.1	25.7	26.3
13	17.9	16.8	17.4	17.9	16.5	17.1	18.2	17.9	18.1	26.7	25.9	26.3
14	17.6	16.7	17.1	18.2	17.5	17.9	19.1	18.1	18.6	25.9	24.6	25.2
15	17.5	16.1	16.8	19.1	18.2	18.6	20.4	18.9	19.6	25.6	24.0	24.9
16	18.7	17.2	17.9	20.4	18.9	19.7	20.5	17.2	19.1	26.1	24.7	25.4
17	19.6	18.6	19.0	19.8	17.1	18.6	19.5	18.8	19.3	26.5	25.1	25.8
18	20.3	19.5	19.8	17.4	16.6	17.0	21.9	19.4	20.6	26.2	25.4	25.9
19	19.5	17.8	18.5	17.7	16.3	17.1	23.3	21.7	22.6	26.1	22.7	24.3
20	17.8	16.6	17.2	18.3	16.8	17.6	23.7	22.8	23.2	22.9	22.0	22.5
21	17.5	16.6	17.1	18.5	17.7	18.1	23.4	22.3	22.9	24.5	22.9	23.8
22	18.3	17.3	17.8	18.2	16.2	17.2	23.2	22.1	22.7	26.5	24.4	25.3
23	18.1	16.1	17.0	17.8	16.9	17.4	23.7	22.2	22.9	27.7	26.0	26.8
24	16.7	15.9	16.2	19.3	17.7	18.5	23.9	22.5	23.2	28.5	26.8	27.7
25	18.6	16.7	17.7	21.5	19.1	20.3	24.0	22.4	23.3	29.1	27.7	28.3
26	18.9	17.4	18.4	21.9	21.0	21.5	24.8	23.0	23.9	28.8	28.0	28.4
27	17.4	16.1	16.9	22.4	21.5	21.9	24.5	23.6	23.9	28.6	27.6	28.0
28	17.4	15.9	16.6	22.2	21.0	21.6	24.1	22.8	23.5	28.5	27.0	27.8
29	18.8	16.2	18.0	22.1	19.8	21.2	24.3	22.9	23.6	28.9	27.5	28.1
30	---	---	---	21.0	19.5	20.4	24.1	23.5	23.9	29.3	27.8	28.6
31	---	---	---	19.5	19.0	19.3	---	---	---	29.9	28.4	29.1
MONTH	20.3	11.4	16.5	22.4	16.0	18.7	24.8	17.2	21.0	29.9	20.2	25.2

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.7	28.5	29.1	28.3	27.7	28.0	30.5	29.0	29.8	31.2	30.0	30.7
2	29.5	28.2	28.9	29.0	27.7	28.3	30.8	29.2	30.0	31.4	30.2	30.9
3	29.0	27.9	28.4	29.5	28.2	28.8	31.1	29.5	30.4	31.7	30.2	31.0
4	---	---	---	29.7	28.5	29.1	31.5	29.8	30.7	31.9	30.4	31.2
5	---	---	---	30.2	28.7	29.4	31.5	30.0	30.8	31.4	30.5	31.0
6	---	---	---	30.4	28.9	29.7	31.4	29.8	30.7	30.8	29.6	30.1
7	---	---	---	30.8	29.2	30.0	31.4	29.9	30.7	30.1	28.9	29.6
8	---	---	---	31.1	29.5	30.3	31.3	29.8	30.6	29.6	28.6	29.0
9	---	---	---	31.4	29.9	30.7	31.1	29.8	30.5	29.4	28.3	28.9
10	---	---	---	31.3	29.8	30.6	31.3	29.7	30.5	30.1	28.6	29.4
11	---	---	---	31.1	29.7	30.5	31.4	29.8	30.7	30.5	29.1	29.8
12	---	---	---	---	---	---	31.7	30.2	31.0	30.2	28.1	29.6
13	---	---	---	---	---	---	31.4	30.2	30.9	28.4	26.6	27.5
14	---	---	---	---	---	---	30.8	29.5	30.3	---	---	---
15	---	---	---	---	---	---	30.8	29.4	30.2	---	---	---
16	---	---	---	---	---	---	31.4	29.7	30.6	29.4	28.2	28.7
17	---	---	---	---	---	---	31.6	30.0	30.8	28.2	26.9	27.5
18	---	---	---	---	---	---	31.8	30.2	31.0	27.5	26.1	26.8
19	---	---	---	---	---	---	31.6	30.3	31.0	27.3	25.9	26.7
20	---	---	---	---	---	---	31.1	29.6	30.4	27.9	26.4	27.2
21	---	---	---	31.9	30.3	31.1	30.9	29.5	30.3	27.7	26.6	27.3
22	---	---	---	31.7	30.4	31.1	31.1	29.6	30.4	28.2	27.0	27.6
23	---	---	---	31.0	30.0	30.6	31.2	29.8	30.5	28.9	27.6	28.3
24	---	---	---	30.6	29.1	29.9	31.2	29.8	30.5	28.8	26.9	28.1
25	---	---	---	30.1	28.7	29.5	31.4	29.9	30.8	26.9	24.3	25.2
26	---	---	---	30.3	28.6	29.5	31.5	30.1	30.8	24.3	23.1	23.6
27	---	---	---	30.1	29.1	29.7	31.4	29.9	30.8	24.5	22.9	23.6
28	---	---	---	30.2	28.9	29.6	31.3	29.9	30.6	25.0	23.5	24.3
29	---	---	---	30.0	29.0	29.5	31.2	29.7	30.6	25.4	24.0	24.7
30	28.7	28.1	28.3	30.3	29.0	29.7	31.2	29.7	30.6	25.5	24.1	24.9
31	---	---	---	30.4	29.1	29.8	31.2	29.7	30.6	---	---	---
MONTH	---	---	---	---	---	---	31.8	29.0	30.6	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	5.9	6.1	5.8	5.4	5.6	---	---	---	9.2	7.6	8.2
2	6.3	5.5	5.9	6.3	5.7	6.0	---	---	---	8.1	7.4	7.6
3	5.8	5.2	5.5	6.5	6.2	6.3	---	---	---	7.8	7.4	7.6
4	---	---	---	6.3	6.0	6.2	---	---	---	8.2	7.7	8.0
5	---	---	---	6.0	5.7	5.9	---	---	---	8.6	8.0	8.3
6	---	---	---	5.7	5.2	5.5	---	---	---	8.8	8.2	8.4
7	---	---	---	5.2	5.0	5.2	---	---	---	8.2	7.8	8.0
8	---	---	---	5.1	4.9	5.0	---	---	---	8.4	7.4	7.9
9	6.9	6.1	6.3	5.2	4.9	5.0	---	---	---	8.6	7.9	8.3
10	6.4	6.0	6.2	5.2	4.8	5.0	---	---	---	8.2	7.7	8.0
11	6.6	5.8	6.1	5.3	4.7	5.0	---	---	---	---	---	---
12	6.3	5.7	6.0	5.4	4.7	5.0	---	---	---	---	---	---
13	6.3	6.0	6.2	5.4	5.1	5.2	---	---	---	8.1	7.7	7.9
14	6.7	6.0	6.5	5.5	5.0	5.2	---	---	---	8.2	7.8	8.0
15	6.6	6.1	6.4	5.5	5.2	5.3	---	---	---	8.2	7.8	8.1
16	6.5	6.1	6.3	5.7	5.2	5.4	---	---	---	8.2	7.7	8.0
17	6.7	6.4	6.5	5.4	5.1	5.3	---	---	---	7.8	7.5	7.7
18	6.8	6.4	6.5	5.3	5.0	5.1	---	---	---	7.5	7.2	7.3
19	6.8	4.5	6.0	5.1	4.8	5.0	---	---	---	7.3	6.9	7.1
20	6.3	5.6	6.1	4.9	4.7	4.8	---	---	---	7.8	6.9	7.3
21	6.5	6.1	6.3	4.8	4.5	4.6	9.2	8.9	9.0	8.1	7.3	7.8
22	6.3	6.0	6.2	4.8	4.4	4.6	9.1	8.9	9.0	8.0	7.6	7.8
23	6.0	5.6	5.8	6.6	3.4	4.7	9.1	8.8	9.0	7.7	7.3	7.5
24	6.1	5.8	5.9	4.9	4.5	4.7	9.0	8.8	8.9	7.5	7.2	7.3
25	6.4	5.9	6.1	5.1	4.9	5.0	8.9	8.7	8.8	7.6	7.2	7.3
26	6.5	6.1	6.3	4.9	4.8	4.9	9.0	8.7	8.8	7.4	6.9	7.3
27	6.5	6.2	6.4	5.1	4.9	5.0	8.8	8.5	8.7	7.5	7.0	7.2
28	6.6	5.8	6.3	5.0	4.8	4.9	8.8	8.5	8.6	8.9	7.3	8.2
29	6.8	6.2	6.5	5.0	4.6	4.8	8.6	8.2	8.5	8.9	8.6	8.7
30	6.7	4.4	6.0	5.0	4.8	4.9	8.4	8.1	8.2	8.8	8.3	8.6
31	5.9	4.8	5.5	---	---	---	8.1	7.7	7.9	8.3	7.6	8.0
MONTH	---	---	---	6.6	3.4	5.2	---	---	---	---	---	---

08057448 TRINITY RIVER NEAR WILMER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	7.2	7.3	7.1	6.7	6.9	7.5	7.1	7.3	5.5	4.3	5.0
2	7.2	6.9	7.1	7.0	6.8	6.9	7.3	5.8	6.9	5.8	4.4	5.0
3	7.1	6.8	6.9	7.0	6.4	6.8	---	---	---	---	---	---
4	7.1	6.7	6.8	7.0	6.8	6.9	8.1	7.6	7.9	---	---	---
5	7.2	6.8	7.0	7.4	6.9	7.1	8.2	7.7	8.0	---	---	---
6	7.1	6.7	6.9	7.4	7.2	7.3	8.0	7.7	7.8	---	---	---
7	6.9	6.5	6.7	7.4	6.9	7.1	7.9	7.2	7.6	---	---	---
8	7.0	6.5	6.8	6.9	6.6	6.8	7.6	7.1	7.3	---	---	---
9	6.8	6.4	6.6	7.0	6.5	6.7	8.3	7.4	7.8	---	---	---
10	7.1	6.4	6.7	6.6	5.5	6.2	8.4	7.8	8.0	---	---	---
11	6.5	5.9	6.2	5.9	4.6	5.3	8.4	7.8	8.1	8.2	6.8	7.5
12	5.9	5.6	5.8	6.4	4.6	6.0	7.9	6.3	7.2	7.7	6.9	7.3
13	6.1	5.7	5.9	6.4	6.0	6.2	7.6	6.9	7.2	8.1	6.5	7.2
14	6.9	5.9	6.4	6.3	5.7	5.8	7.6	7.2	7.5	8.8	6.6	7.6
15	6.7	6.2	6.4	5.7	5.3	5.5	7.7	7.2	7.5	8.6	7.0	7.9
16	6.4	5.8	6.1	6.1	5.4	5.7	7.5	6.8	7.3	8.2	7.2	7.6
17	6.2	5.3	5.7	6.7	6.0	6.4	7.2	6.8	7.0	7.6	6.3	7.0
18	5.5	5.1	5.3	7.2	6.5	6.8	7.4	6.9	7.3	7.2	6.4	6.8
19	5.9	5.1	5.5	7.2	6.8	7.0	7.2	6.7	7.0	6.6	4.3	5.7
20	5.7	5.2	5.5	7.4	6.8	7.1	7.3	7.1	7.2	6.1	5.7	5.8
21	5.4	4.7	5.2	7.3	6.6	6.9	7.2	6.7	7.0	5.8	5.5	5.6
22	5.2	4.1	4.8	7.5	6.0	6.8	7.1	6.5	6.8	5.8	5.5	5.7
23	5.2	4.1	4.5	7.4	6.0	7.1	7.1	6.3	6.7	6.4	5.5	6.1
24	6.1	5.1	5.7	7.5	7.2	7.3	7.1	6.4	6.7	7.2	5.9	6.5
25	6.1	5.7	5.9	7.5	7.2	7.3	6.8	6.1	6.5	7.0	5.7	6.4
26	6.3	5.5	5.9	7.2	6.4	7.0	6.8	5.7	6.4	6.7	5.8	6.2
27	7.3	6.2	6.9	7.0	6.2	6.7	6.5	5.6	5.9	6.0	5.2	5.5
28	8.4	7.1	7.9	7.0	6.7	6.8	5.6	5.2	5.4	5.6	4.6	5.1
29	7.9	6.8	7.1	7.0	4.2	5.4	5.5	4.8	5.1	5.8	5.0	5.4
30	---	---	---	6.1	4.8	5.3	5.2	4.6	4.9	6.1	5.1	5.5
31	---	---	---	7.2	6.1	6.8	---	---	---	5.9	5.2	5.6
MONTH	8.4	4.1	6.3	7.5	4.2	6.6	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.8	5.2	5.6	6.9	5.8	6.3	7.3	6.3	6.8	5.3	4.7	5.0
2	5.9	5.2	5.5	7.2	6.3	6.7	7.4	5.5	6.4	5.1	4.6	4.8
3	5.7	4.9	5.4	7.4	6.3	6.8	6.9	5.6	6.2	5.1	4.7	4.9
4	---	---	---	7.2	6.3	6.7	6.8	6.0	6.3	5.3	4.8	5.0
5	---	---	---	7.0	6.2	6.6	6.2	5.7	6.0	5.1	4.5	4.8
6	---	---	---	6.9	6.0	6.4	6.2	5.7	5.9	5.0	4.5	4.7
7	---	---	---	6.6	6.0	6.3	6.0	5.5	5.8	5.3	4.6	4.9
8	---	---	---	6.4	5.8	6.1	5.9	5.4	5.6	5.6	5.3	5.5
9	---	---	---	6.2	5.7	5.9	5.4	5.0	5.2	5.7	5.2	5.4
10	---	---	---	6.1	5.6	5.9	5.5	5.0	5.2	5.5	5.0	5.3
11	---	---	---	6.1	5.4	5.8	5.2	4.7	4.9	5.5	4.9	5.1
12	---	---	---	---	---	---	5.1	2.9	4.8	5.2	4.7	5.0
13	---	---	---	---	---	---	5.1	4.6	4.8	---	---	---
14	---	---	---	---	---	---	5.4	5.0	5.2	---	---	---
15	---	---	---	---	---	---	5.5	4.9	5.2	---	---	---
16	---	---	---	---	---	---	5.2	4.7	5.0	6.1	5.1	5.6
17	---	---	---	---	---	---	5.2	4.5	4.8	6.5	5.2	5.7
18	---	---	---	---	---	---	5.1	4.8	4.9	6.4	5.5	6.0
19	---	---	---	---	---	---	5.0	4.6	4.8	6.4	5.7	6.0
20	---	---	---	---	---	---	4.9	4.2	4.7	6.4	5.9	6.1
21	---	---	---	---	---	---	5.3	4.8	5.1	6.2	5.8	6.0
22	---	---	---	5.4	5.0	5.2	5.4	4.8	5.1	6.2	5.8	5.9
23	---	---	---	---	---	---	5.1	4.8	5.0	6.2	5.7	6.0
24	---	---	---	---	---	---	5.2	4.8	5.0	6.8	5.9	6.3
25	---	---	---	10.3	8.6	9.4	5.2	4.9	5.0	7.2	6.0	6.6
26	---	---	---	9.6	8.4	8.9	5.2	4.7	5.0	7.8	7.0	7.6
27	---	---	---	8.8	7.0	7.7	5.5	4.8	5.1	7.9	7.4	7.6
28	---	---	---	7.5	5.7	6.2	5.4	4.8	5.1	7.6	7.2	7.4
29	---	---	---	6.2	5.4	5.7	5.6	4.9	5.2	7.6	7.3	7.5
30	6.1	5.5	5.8	6.7	5.1	6.0	6.0	4.9	5.1	7.8	7.2	7.5
31	---	---	---	6.3	4.9	5.3	5.3	4.7	5.0	---	---	---
MONTH	---	---	---	---	---	---	7.4	2.9	5.3	---	---	---

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08058900 EAST FORK TRINITY RIVER AT MCKINNEY, TX

LOCATION.--Lat 33°14′38", long 96°36′31", Collin County, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State 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 Sep 1982, Oct 1985 to Jul 1987, Apr 1993 to Sep 1995. Biochemical data: Oct 1980 to Sep 1982, Oct 1985 to Jul 1987, Apr 1993 to Sep 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 528.74 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct 1975, at least 10% of contributing drainage area has been regulated by 49 floodwater-retarding structures with a combined detention capacity of 26,000 acre-ft. Small diversions for irrigation above the station are made at times. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, about 28 ft in Apr 1942 (discharge not determined), from information by Texas Department of Transportation.

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

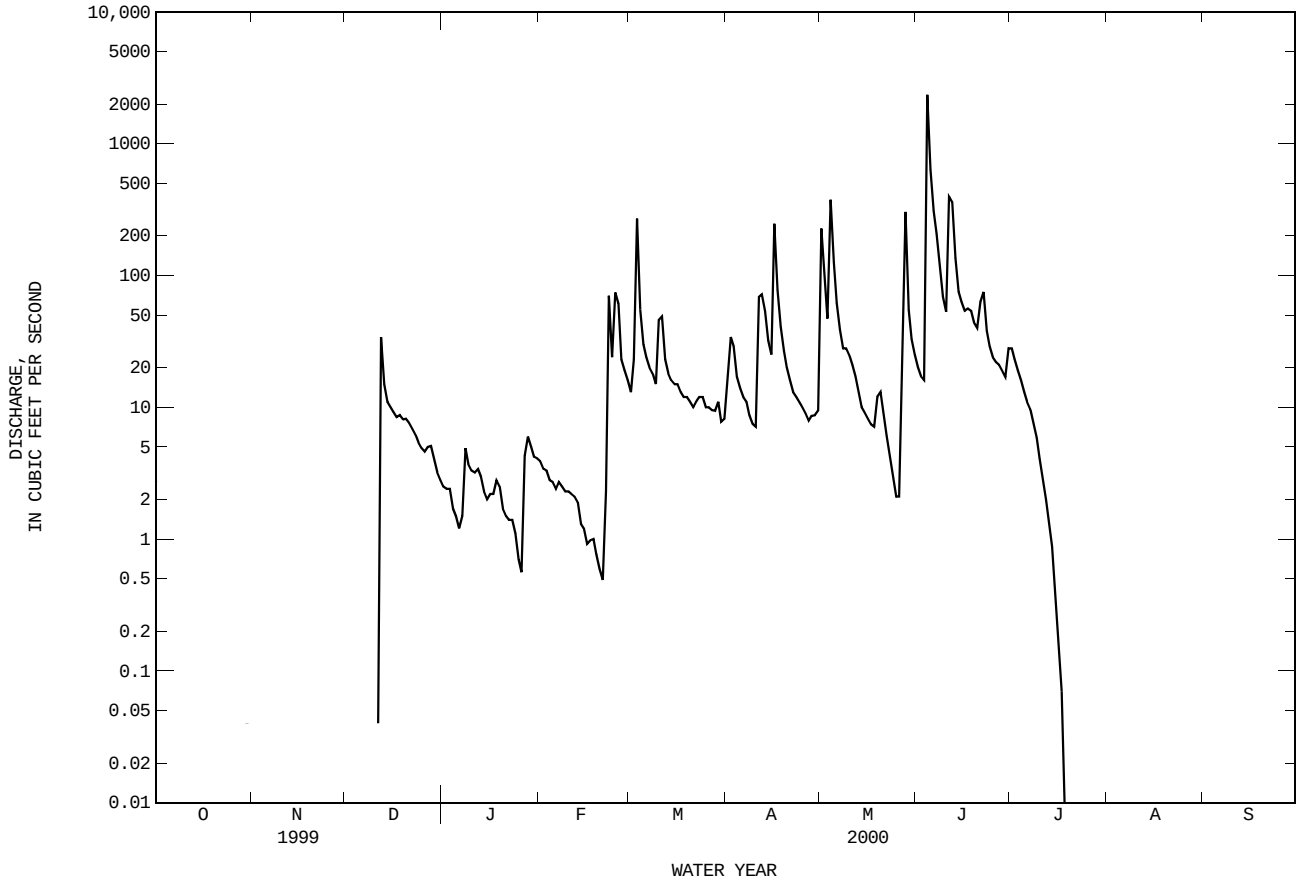
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	2.5	3.9	13	16	227	20	28	.00	.00
2	.00	.00	.00	2.4	3.4	23	34	101	17	23	.00	.00
3	.00	.00	.00	2.4	3.3	270	29	47	16	19	.00	.00
4	.00	.00	.01	1.7	2.8	55	17	376	2350	16	.00	.00
5	.00	.00	.00	1.5	2.7	30	14	126	638	13	.00	.00
6	.00	.00	.00	1.2	2.4	24	12	62	309	11	.00	.00
7	.00	.00	.00	1.5	2.7	20	11	39	208	9.7	.00	.00
8	.00	.00	.00	4.9	2.5	18	8.7	28	119	7.6	.00	.00
9	.00	.00	.00	3.7	2.3	15	7.5	28	69	5.9	.00	.00
10	.00	.00	.00	3.3	2.3	46	7.1	25	53	4.1	.00	.00
11	.00	.00	.04	3.2	2.2	49	69	21	397	2.9	.00	.00
12	.00	.00	34	3.4	2.1	23	72	17	361	2.0	.00	.00
13	.00	.00	15	3.0	1.9	18	54	13	136	1.3	.00	.00
14	.00	.00	11	2.3	1.3	16	32	10	75	.88	.00	.00
15	.00	.00	10	2.0	1.2	15	25	9.1	63	.42	.00	.00
16	.00	.00	9.2	2.2	.92	15	246	8.2	54	.18	.00	.00
17	.00	.00	8.4	2.2	.98	13	78	7.4	56	.07	.00	.00
18	.01	.00	8.7	2.8	1.0	12	41	7.1	54	.01	.00	.00
19	.00	.00	8.1	2.5	.76	12	27	12	44	.00	.00	.00
20	.00	.00	8.2	1.7	.59	11	20	13	40	.00	.00	.00
21	.00	.00	7.6	1.5	.49	10	16	8.8	63	.00	.00	.00
22	.00	.01	6.9	1.4	2.3	11	13	6.1	75	.00	.00	.00
23	.00	.00	6.2	1.4	70	12	12	4.4	38	.00	.00	.00
24	.00	.00	5.4	1.1	24	12	11	3.1	29	.00	.00	.01
25	.00	.00	4.9	.70	74	10	10	2.1	24	.00	.00	.00
26	.00	.00	4.6	.56	61	10	9.0	2.1	22	.00	.00	.00
27	.00	.00	5.0	4.3	23	9.5	7.9	34	21	.00	.00	.00
28	.00	.00	5.1	6.0	19	9.4	8.6	303	19	.00	.00	.00
29	.00	.00	4.0	5.0	16	11	8.7	55	17	.00	.00	.00
30	.04	.00	3.2	4.2	---	7.8	9.4	33	28	.00	.00	.00
31	.00	---	2.8	4.1	---	8.2	---	25	---	.00	.00	---
TOTAL	0.05	0.01	168.35	80.66	331.04	808.9	925.9	1653.4	5415	145.06	0.00	0.01
MEAN	.002	.000	5.43	2.60	11.4	26.1	30.9	53.3	180	4.68	.000	.000
MAX	.04	.01	34	6.0	74	270	246	376	2350	28	.00	.01
MIN	.00	.00	.00	.56	.49	7.8	7.1	2.1	16	.00	.00	.00
AC-FT	.1	.02	334	160	657	1600	1840	3280	10740	288	.00	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY)

MEAN	88.4	135	147	97.2	185	215	144	263	135	22.3	3.44	7.17
MAX	1022	1120	1160	805	926	644	804	1704	737	213	19.0	64.0
(WY)	1982	1995	1992	1998	1997	1995	1990	1982	1989	1994	1990	1994
MIN	.000	.000	.000	.000	1.37	2.30	4.08	2.52	.81	.000	.000	.000
(WY)	1978	1978	1978	1978	1976	1976	1980	1996	1996	1984	1980	1977

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	20170.63		9528.38			
ANNUAL MEAN	55.3		26.0		120	
HIGHEST ANNUAL MEAN					373	1982
LOWEST ANNUAL MEAN					4.65	1980
HIGHEST DAILY MEAN	1350	May 12	2350	Jun 4	26800	May 13 1982
LOWEST DAILY MEAN	.00	Aug 12	.00	Oct 1	.00	Aug 18 1976
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 12	.00	Oct 1	.00	Aug 18 1976
INSTANTANEOUS PEAK FLOW			3750	Jun 4	61800	May 13 1982
INSTANTANEOUS PEAK STAGE			18.66	Jun 4	22.17	May 13 1982
ANNUAL RUNOFF (AC-FT)	40010		18900		86920	
10 PERCENT EXCEEDS	113		46		237	
50 PERCENT EXCEEDS	18		2.3		14	
90 PERCENT EXCEEDS	.00		.00		.00	

08058900 EAST FORK TRINITY RIVER AT MCKINNEY, TX--Continued



08059400 SISTER GROVE CREEK NEAR BLUE RIDGE, TX

LOCATION.--Lat 33°17′40", long 96°28′58", Collin County, Hydrologic Unit 12030106, on left bank at upstream side of highway embankment of bridge on Farm Road 545, 3.5 mi upstream from Hatler Branch, 4.8 mi west of Blue Ridge, 7.4 mi upstream from Stiff Creek, 14.7 mi upstream from mouth, and 24.7 mi upstream from Lavon Dam.

DRAINAGE AREA.--83.1 mi^2.

PERIOD OF RECORD.--Jul 1975 to current year.
Water-quality records.--Chemical data: Nov 1985 to Jun 1987, Oct 1995 to Sep 1999. Biochemical data: Nov 1985 to Jun 1987, Oct 1995 to Sep 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 526.29 ft above sea level. Prior to Jun 29, 1988, at datum 10.00 ft higher at same site. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Jul 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 with a combined detention capacity of 12,710 acre-ft. 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 30.7 ft, present datum, probably occurred in Jul 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.

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

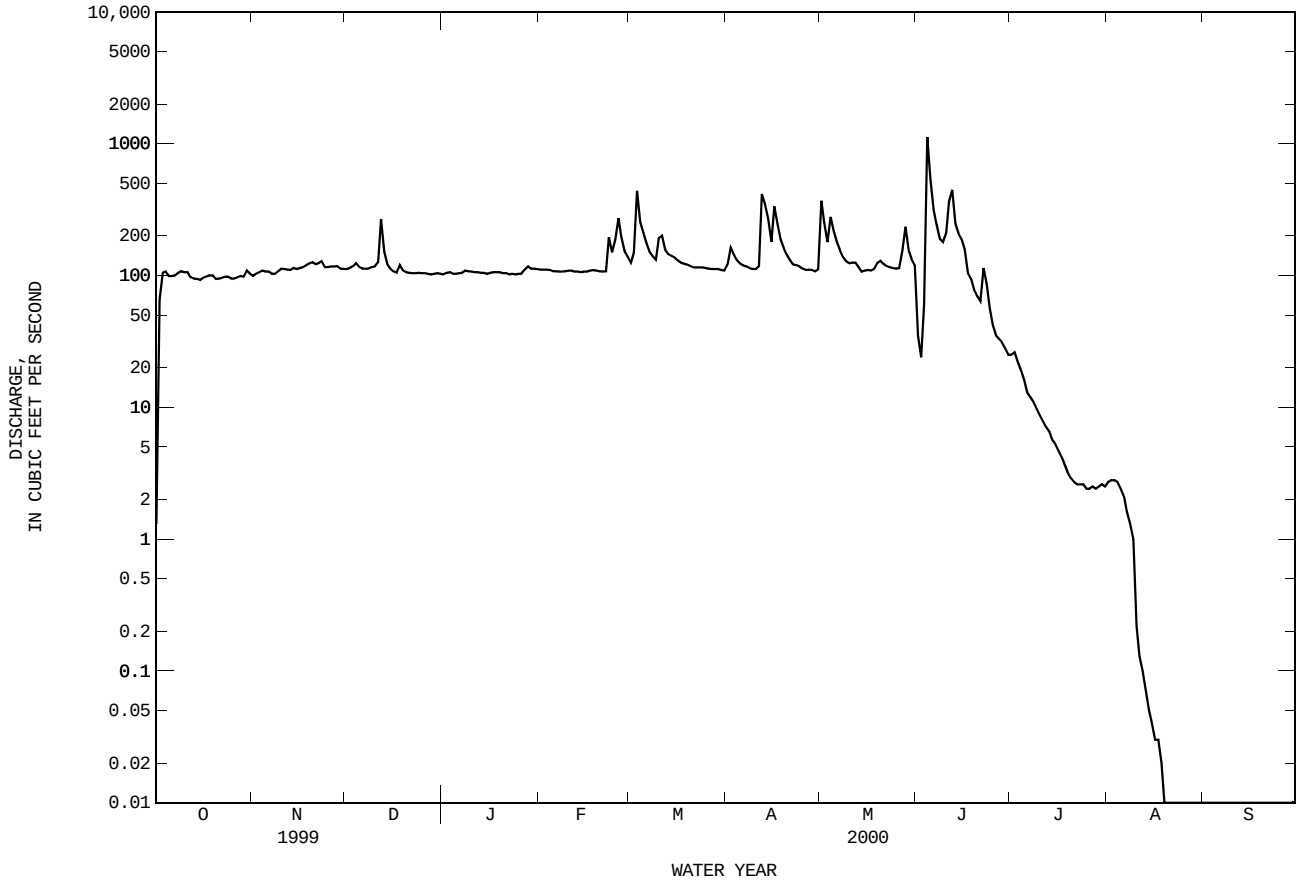
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	99	112	102	111	125	121	369	35	25	2.7	.00
2	66	103	114	105	111	148	164	252	24	26	2.8	.00
3	105	106	118	106	111	439	146	179	60	22	2.8	.00
4	107	109	124	103	110	253	131	279	1120	19	2.7	.00
5	99	107	116	103	108	210	123	216	534	16	2.4	.00
6	99	107	113	104	108	177	119	181	314	13	2.1	.00
7	100	103	113	105	107	152	117	156	244	12	1.6	.00
8	104	103	113	109	107	140	114	138	191	11	1.3	.00
9	108	108	116	108	108	132	112	128	179	9.8	1.0	.00
10	106	113	117	107	109	192	112	124	210	8.8	.22	.00
11	106	112	126	106	109	201	118	125	364	7.9	.13	.00
12	97	111	268	106	107	157	414	125	446	7.1	.10	.00
13	95	110	152	105	107	145	347	115	247	6.6	.07	.00
14	94	114	121	105	106	141	268	107	207	5.7	.05	.01
15	92	112	112	103	107	137	180	109	190	5.3	.04	.00
16	96	114	107	105	107	130	336	110	158	4.7	.03	.00
17	98	116	105	106	109	125	246	109	105	4.2	.03	.00
18	100	119	120	106	110	123	186	112	94	3.7	.02	.00
19	100	123	109	106	109	121	160	124	79	3.2	.01	.00
20	94	126	106	104	108	118	144	129	70	2.9	.00	.00
21	95	122	105	104	107	115	131	122	64	2.7	.00	.00
22	96	124	104	102	108	115	121	118	114	2.6	.00	.00
23	98	128	104	103	195	115	120	115	85	2.6	.00	.00
24	98	116	105	102	150	115	117	114	57	2.6	.00	.01
25	95	116	104	103	186	114	113	113	42	2.4	.00	.00
26	95	117	104	103	273	113	110	114	35	2.4	.00	.00
27	97	117	103	111	195	112	111	153	33	2.5	.00	.00
28	99	118	102	117	153	112	110	235	31	2.4	.00	.00
29	98	113	103	113	139	112	107	155	28	2.5	.00	.00
30	109	112	104	113	---	110	111	133	25	2.6	.00	.00
31	103	---	103	112	---	109	---	120	---	2.5	.00	---
TOTAL	2950.3	3398	3623	3287	3675	4608	4809	4679	5385	241.7	20.10	0.02
MEAN	95.2	113	117	106	127	149	160	151	180	7.80	.65	.001
MAX	109	128	268	117	273	439	414	369	1120	26	2.8	.01
MIN	1.3	99	102	102	106	109	107	107	24	2.4	.00	.00
AC-FT	5850	6740	7190	6520	7290	9140	9540	9280	10680	479	40	.04

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

MEAN	52.0	59.4	81.6	57.2	101	124	93.2	128	76.5	12.4	6.20	8.41
MAX	451	316	493	193	268	368	477	714	348	54.4	43.3	61.9
(WY)	1982	1995	1992	1998	1997	1995	1990	1982	1989	1982	1998	1996
MIN	.000	.000	.000	1.55	1.81	2.92	3.46	6.99	1.22	.000	.000	.000
(WY)	1978	1978	1978	1976	1976	1976	1980	1988	1980	1978	1978	1978

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	20330.11		36676.12			
ANNUAL MEAN	55.7		100		66.5	
HIGHEST ANNUAL MEAN					169	1982
LOWEST ANNUAL MEAN					4.22	1980
HIGHEST DAILY MEAN	629	Jan 30	1120	Jun 4	8560	May 13 1982
LOWEST DAILY MEAN	.00	Aug 12	.00	Aug 20	.00	Oct 14 1975
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 12	.00	Aug 20	.00	Oct 14 1975
INSTANTANEOUS PEAK FLOW			1610	Jun 4	13300	May 13 1982
INSTANTANEOUS PEAK STAGE			24.83	Jun 4	32.50	May 13 1982
ANNUAL RUNOFF (AC-FT)	40320		72750		48190	
10 PERCENT EXCEEDS	116		178		155	
50 PERCENT EXCEEDS	27		107		15	
90 PERCENT EXCEEDS	1.0		.00		.00	

08059400 SISTER GROVE CREEK NEAR BLUE RIDGE, TX--Continued



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.--Sep 1953 to current year. Prior to Oct 1970, published as "Lavon Reservoir".
Water-quality records.--Chemical data: Oct 1969 to Sep 1974, Oct 1975 to Sep 1982, Oct 1995 to Sep 1999. Biochemical data: Oct 1969 to Sep 1974, Oct 1975 to Sep 1982, Oct 1995 to Sep 1999.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Jan 20, 1954, nonrecording gage in the approach channel at same datum. Satellite telemeter at station.

REMARKS.--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 Sep 14, 1953, and the dam was completed in Oct 1953. Low-flow outlets consist of five 36-inch-diameter controlled sluice gates. Capacity Table No. 9, is based on a sedimentation survey completed in 1970. 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. Conservation pool storage is 443,800 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	491.4
Crest of spillway (sill of tainter gates)	475.5
Lowest gated outlet (invert)	453.0

COOPERATION.--Record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, 466,900 acre-ft, Jun 23, 24, elevation, 492.48 ft; minimum contents, 295,100 acre-ft, Dec 7, 9, elevation, 483.45 ft.

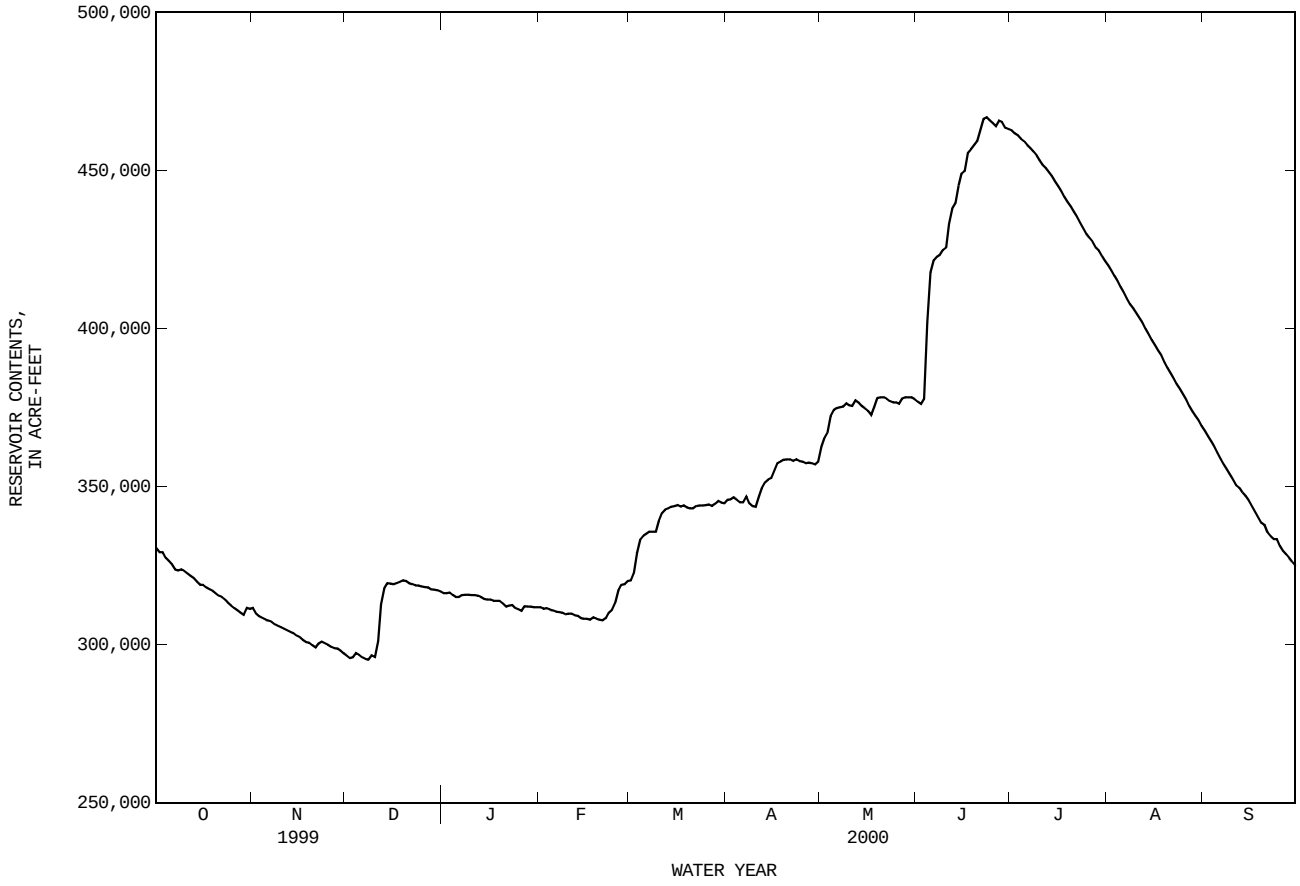
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330500	311600	296500	316300	311800	320300	345700	362500	376800	462500	419800	367500
2	329200	309700	295700	316300	311300	322500	345900	365100	376000	461700	418200	365800
3	329200	308900	296000	316400	311400	328900	346500	367000	377500	461000	416600	364200
4	327500	308400	297200	315600	311100	333100	345700	372200	401700	460000	415000	362700
5	326400	307800	296700	315100	310800	334400	345000	374100	417600	459100	413000	360600
6	325400	307500	295900	315100	310400	334900	345000	374700	421400	458000	411200	358800
7	323800	307200	295400	315600	310200	335600	346800	375100	422400	457000	409400	356900
8	323400	306300	295200	315800	310100	335600	344600	375300	423000	455900	407600	355300
9	323800	305800	296500	315800	309600	335600	343700	376200	424700	454600	406200	353800
10	323200	305500	296000	315600	309700	339000	343600	375600	425500	453100	404700	352100
11	322400	304900	301100	315600	309700	341600	346800	375400	433000	451600	403300	350300
12	321700	304400	312600	315400	309200	342700	349400	377200	437800	450600	401700	349600
13	321000	303900	317700	315100	309000	343000	351200	376400	439500	449300	399800	348100
14	319900	303600	319400	314400	308400	343600	352100	375400	445100	448000	398000	347000
15	318900	302700	319200	314200	308200	343700	352700	374700	448900	446400	396200	345600
16	318900	302200	319100	314200	308200	344100	354900	373900	449700	444900	394700	343700
17	318000	301400	319400	313900	307800	343600	357300	372600	455500	443200	392900	342100
18	317500	300700	319700	313900	308500	343900	357800	375100	456500	441500	391400	340300
19	317000	300600	320300	313900	308200	343400	358400	377900	457800	439900	389400	338500
20	316300	299700	320100	313000	307800	343000	358600	378100	459100	438400	387500	337800
21	315400	299000	319400	312000	307700	343000	358600	378100	462500	436800	385800	335500
22	315100	300200	319100	312300	308400	343700	358000	377700	466200	435300	384000	334200
23	314200	300900	318700	312500	310100	343900	358600	377000	466600	433500	382300	333300
24	313200	300400	318700	311400	310900	343900	358000	376600	465800	431600	380800	333300
25	312300	299900	318400	311100	313200	344100	357800	376600	464900	429800	379100	331200
26	311400	299200	318200	310600	317100	344300	357300	376000	463800	428500	377300	329600
27	310800	298900	318000	312100	318900	343700	357500	377700	465600	427300	375400	328500
28	310100	298700	317500	312000	319100	344500	357300	378100	465100	425500	373700	327300
29	309400	298000	317300	312000	320100	345400	356900	378100	463400	424500	372200	326100
30	311600	297200	317100	311800	---	344800	357800	378100	463000	422800	370700	324800
31	311300	---	316800	311800	---	344600	---	377500	---	421200	369000	---
MAX	330500	311600	320300	316400	320100	345400	358600	378100	466600	462500	419800	367500
MIN	309400	297200	295200	310600	307700	320300	343600	362500	376000	421200	369000	324800
(+)	484.41	483.58	484.73	484.44	484.92	486.29	487.02	488.07	492.30	490.30	487.62	485.19
(@)	-20400	-14100	+19600	-5000	+8300	+24500	+13200	+19700	+85500	-41800	-52200	-44200

CAL YR 1999 MAX 484400 MIN 295200 (@) -130200
WTR YR 2000 MAX 466600 MIN 295200 (@) -6900

(+) 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 sea level. 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 23	0030	5,110	20.77	Jun 14	2045	5,060	20.69
Dec 12	0400	5,800	21.92	Jun 17	1845	4,750	19.94
Jun 11	1715	7,830	24.18				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	30	57	73	72	91	144	1390	61	97	43	45
2	53	18	66	86	70	317	128	145	59	82	40	48
3	49	13	69	97	66	753	74	209	94	75	43	49
4	44	13	323	74	58	122	61	311	1030	65	41	48
5	41	13	112	40	49	101	56	141	138	62	41	50
6	42	11	120	59	53	92	55	115	94	62	40	50
7	37	11	118	105	51	82	51	99	83	62	43	54
8	35	13	55	368	45	93	43	91	75	63	34	51
9	313	14	505	92	48	72	42	86	80	62	30	49
10	54	12	125	81	48	416	46	83	165	58	30	49
11	39	9.7	828	81	48	133	607	81	2920	55	37	51
12	32	15	2850	86	40	93	706	77	501	50	37	68
13	26	14	229	89	47	83	150	70	195	49	35	63
14	26	15	154	95	44	100	108	62	1030	46	34	62
15	22	18	59	94	39	86	94	62	1210	43	36	58
16	18	18	58	106	40	65	212	62	216	41	34	45
17	33	21	60	121	47	61	98	60	1290	48	38	48
18	50	25	131	115	45	59	82	55	439	46	39	48
19	193	40	93	53	46	58	75	921	215	44	29	51
20	50	35	107	44	44	51	66	263	183	46	25	45
21	38	44	99	42	41	68	61	109	485	43	27	44
22	31	415	72	46	57	180	57	93	475	43	36	48
23	26	1040	79	44	963	e95	58	90	140	47	51	51
24	20	111	87	43	95	83	52	71	118	45	49	86
25	18	114	91	44	379	65	50	65	106	43	47	75
26	13	106	89	46	1340	88	48	69	102	45	50	55
27	12	101	88	372	146	62	51	232	121	37	46	53
28	13	111	86	141	121	291	56	200	104	41	46	56
29	11	117	72	90	110	174	52	73	89	70	40	52
30	521	104	84	83	---	69	60	66	87	56	41	50
31	74	---	80	87	---	60	---	65	---	49	46	---
TOTAL	1992	2621.7	7046	2997	4252	4163	3443	5516	11905	1675	1208	1602
MEAN	64.3	87.4	227	96.7	147	134	115	178	397	54.0	39.0	53.4
MAX	521	1040	2850	372	1340	753	706	1390	2920	97	51	86
MIN	11	9.7	55	40	39	51	42	55	59	37	25	44
AC-FT	3950	5200	13980	5940	8430	8260	6830	10940	23610	3320	2400	3180

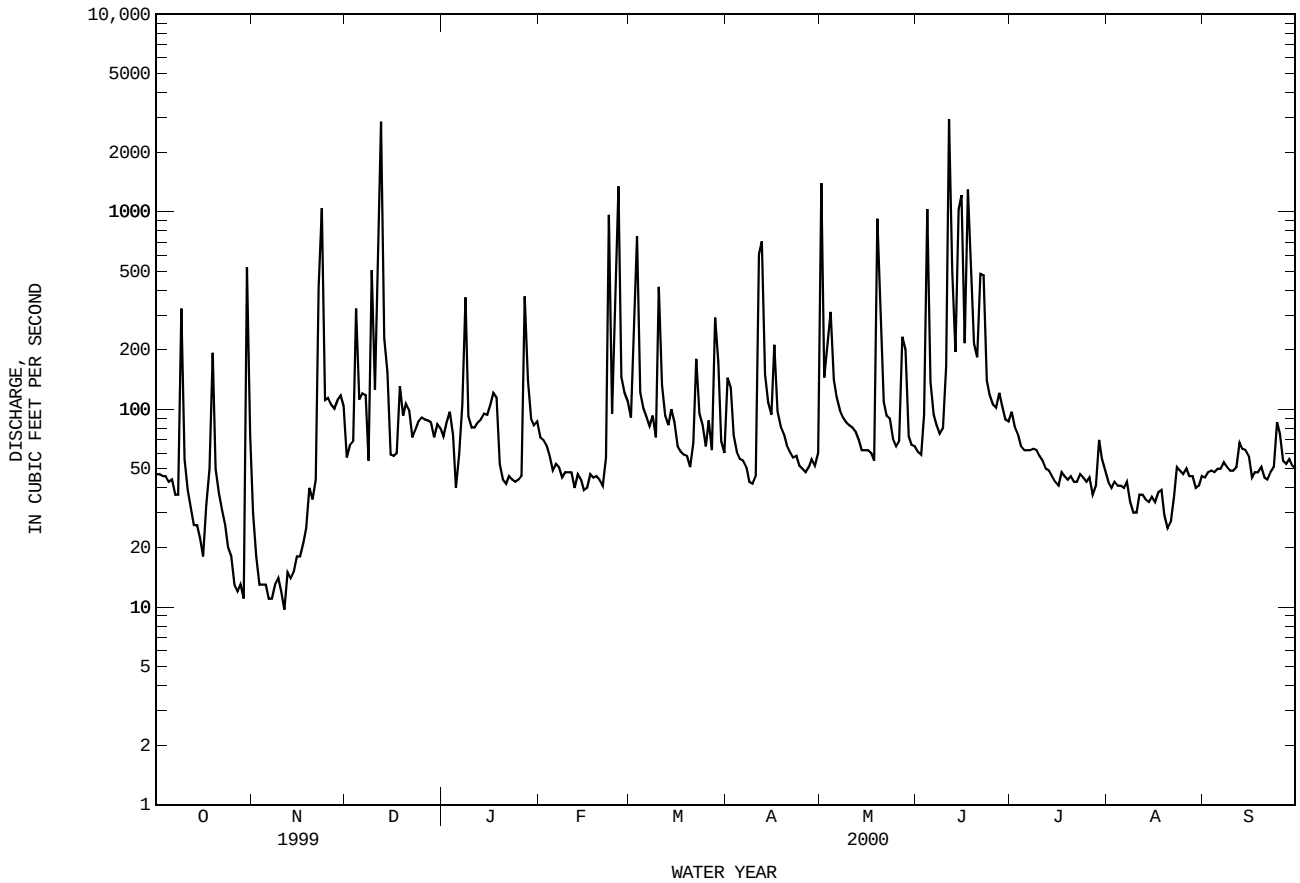
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	131	120	161	107	154	179	160	225	148	49.3	33.9	54.0
MAX	610	586	898	617	588	476	573	1039	566	241	105	180
(WY)	1982	1995	1992	1998	1997	1995	1990	1982	1981	1994	1997	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

08061540 ROWLETT CREEK NEAR SACHSE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	49590.7		48420.7			
ANNUAL MEAN	136		132		126	
HIGHEST ANNUAL MEAN					265	1992
LOWEST ANNUAL MEAN					22.2	1971
HIGHEST DAILY MEAN	2850	Dec 12	2920	Jun 11	14900	May 13 1982
LOWEST DAILY MEAN	9.7	Nov 11	9.7	Nov 11	.00	Aug 24 1969
ANNUAL SEVEN-DAY MINIMUM	12	Nov 5	12	Nov 5	.00	Aug 24 1969
INSTANTANEOUS PEAK FLOW			7830	Jun 11	32200	Jan 5 1998
INSTANTANEOUS PEAK STAGE			24.18	Jun 11	29.62	May 17 1989
ANNUAL RUNOFF (AC-FT)	98360		96040		91590	
10 PERCENT EXCEEDS	189		213		204	
50 PERCENT EXCEEDS	69		61		46	
90 PERCENT EXCEEDS	32		33		8.1	

e Estimated



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 Sep 1979.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 12,500 ft long, including a 664-foot gated spillway with fourteen 40- by 28-foot tainter gates. Impoundment began in Sep 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. Flow is affected at times by discharge from the flood-detention pools of 14 floodwater-retarding structures with a combined detention capacity of 12,530 acre-ft. These structures control runoff from 44.5 mi^2 above this station and below Lavon Lake (station 08060500, conservation pool storage 443,800 acre-ft). 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.--The capacity table was provided by Forrest and Cotton, Consulting Engineers, for the city of Dallas.

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, Sep 30, 2000, elevation, 430.26 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 429,100 acre-ft, Jun 15, elevation, 436.21 ft; minimum contents, 311,800 acre-ft, Sep 30, elevation, 430.26 ft.

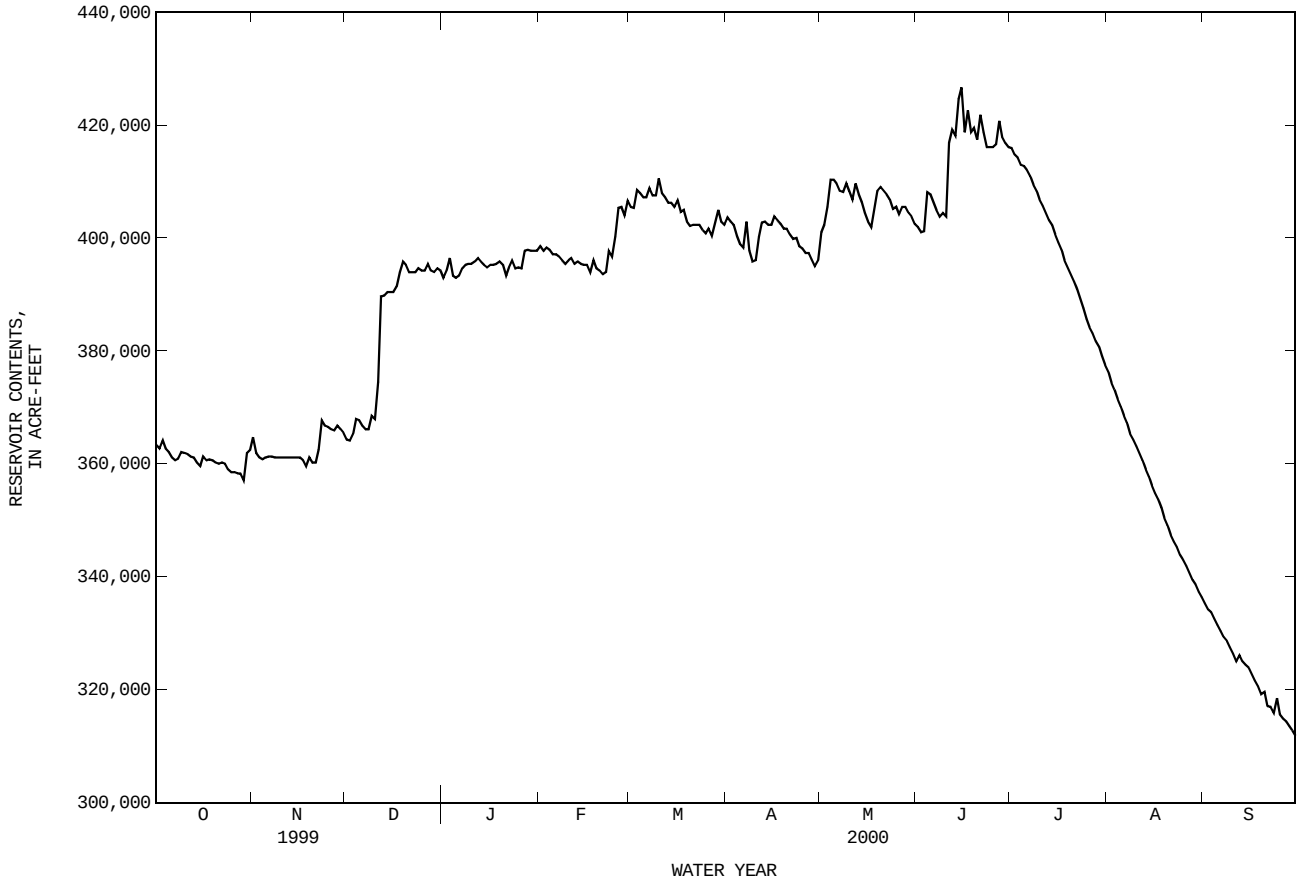
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363300	364700	364300	392900	398500	405500	403600	401000	401900	415900	376300	335300
2	362700	361900	364100	394200	397700	405300	402900	402300	401000	414800	374300	334200
3	364100	361100	365300	396400	398300	408500	402300	405500	401200	414200	373100	333700
4	362700	360800	367900	393300	397900	407900	400400	410300	408100	412900	371500	332600
5	362100	361100	367700	392900	397100	407200	398900	410300	407700	412700	370100	331500
6	361100	361300	366700	393300	397100	407200	398300	409600	406200	412000	368500	330400
7	360600	361300	366100	394600	396700	408800	402900	408300	404900	410900	367300	329300
8	360900	361100	366100	395200	396000	407500	397700	408100	403800	409400	365300	328600
9	362100	361100	368500	395400	395400	407500	395800	409600	404400	408300	364300	327500
10	361900	361100	367900	395400	396000	410500	396000	408300	403800	406800	363100	326400
11	361700	361100	374500	395800	396400	407900	400200	406800	416800	405700	361900	325000
12	361300	361100	389600	396400	395400	407200	402700	409600	419200	404400	360600	326100
13	361100	361100	389800	395800	395800	406200	402900	407700	418100	403100	359000	325000
14	360200	361100	390400	395200	395400	406200	402300	406400	424600	402300	357700	324400
15	359600	361100	390400	394800	395200	405500	402300	404400	426600	400600	356200	323900
16	361300	361100	390400	395200	395200	406600	403800	402900	418700	399200	354800	322700
17	360600	360600	391400	395200	393900	404600	403100	401900	422600	397900	353700	321600
18	360800	359600	393900	395400	396000	404900	402500	405100	418700	396000	352200	320600
19	360600	361100	395800	395800	394600	402900	401600	408300	419400	394800	350400	319200
20	360200	360200	395200	395200	394200	402100	401600	409000	417400	393500	349100	319600
21	360000	360200	393900	393300	393500	402300	400600	408300	421800	392300	347400	317100
22	360200	362500	393900	394800	393900	402300	399800	407700	418700	391000	346200	317000
23	360000	367700	393900	396000	397700	402300	400000	406800	416100	389200	345300	315900
24	359000	366700	394600	394600	396700	401400	398500	405100	416100	387500	343900	318500
25	358500	366500	394200	394800	400200	400800	398100	405500	416100	385600	343000	315600
26	358500	366100	394200	394600	405300	401600	397300	404200	416600	384200	341900	314900
27	358300	365900	395400	397700	405500	400400	397300	405500	420700	383100	340800	314400
28	358300	366700	394200	397900	404000	402700	396200	405500	417900	381700	339500	313500
29	357100	366100	393900	397700	406600	404900	395000	404400	416800	380700	338600	312800
30	361900	365500	394600	397700	---	402900	396000	403800	416100	379100	337300	311800
31	362500	---	394200	397700	---	402300	---	402500	---	377500	336400	---
MAX	364100	367700	395800	397900	406600	410500	403800	410300	426600	415900	376300	335300
MIN	357100	359600	364100	392900	393500	400400	395000	401000	401000	377500	336400	311800
(+)	433.03	433.18	434.59	434.76	435.18	434.98	434.68	434.99	435.62	433.78	431.65	430.26
(@)	-1400	+3000	+28700	+3500	+8900	-4300	-6300	+6500	+13600	-38600	-41100	-24600

CAL YR 1999 MAX 431600 MIN 357100 (@) -19100
WTR YR 2000 MAX 426600 MIN 311800 (@) -52100

(+) 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 sea level. 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 Sep 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 by Lavon Lake (station 08060500) and Lake Ray Hubbard (station 08061550) with a combined conservation pool storage of 933,800 acre-ft. 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

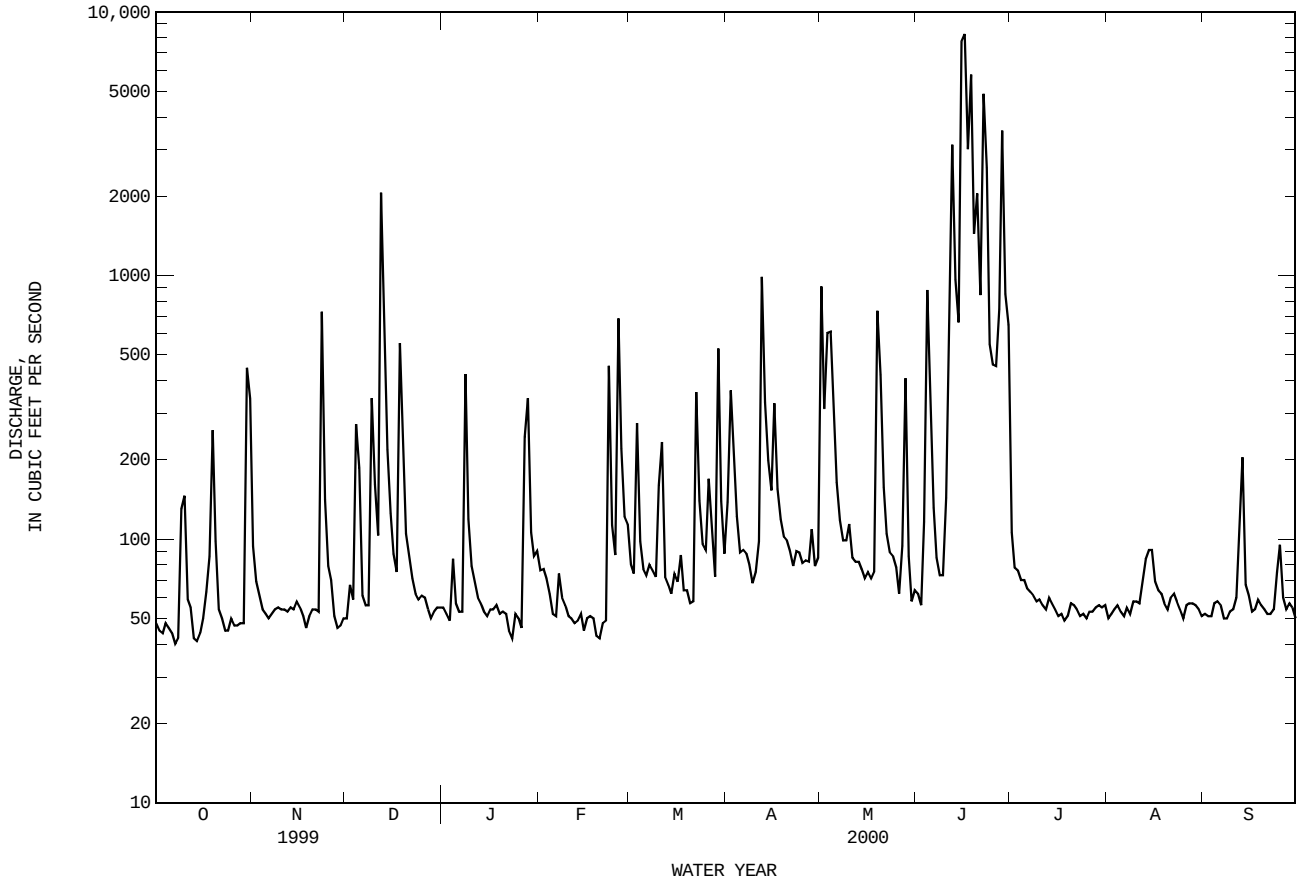
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	94	50	55	76	80	138	909	62	106	50	52
2	45	69	67	52	77	74	366	312	56	78	52	51
3	44	61	59	49	71	275	208	606	116	76	54	51
4	48	54	273	84	62	98	122	612	880	70	56	57
5	46	52	186	57	52	77	89	304	395	70	53	58
6	44	50	61	53	51	73	91	164	131	65	51	56
7	40	52	56	53	74	80	88	118	85	63	55	50
8	42	54	56	422	60	76	80	99	73	61	52	50
9	130	55	342	119	56	72	68	99	73	58	58	53
10	146	54	161	79	51	160	75	114	143	59	58	54
11	59	54	103	69	50	233	98	85	951	56	57	60
12	55	53	2060	60	48	72	988	82	3130	54	69	120
13	42	55	617	57	49	67	330	82	966	60	84	204
14	41	54	218	53	52	62	199	77	663	57	91	67
15	44	58	125	51	45	74	153	71	7730	54	91	61
16	50	55	88	54	50	69	327	75	8240	51	69	53
17	63	51	75	54	51	87	155	71	3010	52	64	54
18	86	46	554	56	50	64	119	75	5770	49	62	59
19	259	51	196	52	43	64	102	733	1440	51	57	56
20	98	54	105	53	42	57	99	420	2050	57	54	54
21	54	54	87	52	48	58	90	157	842	56	60	52
22	50	53	71	45	49	361	79	105	4880	54	62	52
23	45	728	62	42	454	140	90	89	2560	51	58	54
24	45	141	59	52	113	96	89	86	549	52	54	75
25	50	79	61	50	87	91	81	78	459	50	50	95
26	47	70	60	46	686	169	83	62	453	53	56	60
27	47	51	54	244	220	107	82	94	744	53	57	54
28	48	46	50	342	122	72	109	407	3540	55	57	57
29	48	47	53	106	114	528	79	86	851	56	56	55
30	446	50	55	86	---	139	85	58	649	55	54	50
31	341	---	55	90	---	88	---	64	---	56	51	---
TOTAL	2651	2445	6119	2737	3003	3763	4762	6394	51491	1838	1852	1924
MEAN	85.5	81.5	197	88.3	104	121	159	206	1716	59.3	59.7	64.1
MAX	446	728	2060	422	686	528	988	909	8240	106	91	204
MIN	40	46	50	42	42	57	68	58	56	49	50	50
AC-FT	5260	4850	12140	5430	5960	7460	9450	12680	102100	3650	3670	3820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

MEAN	385	537	650	607	806	1042	987	1571	1129	406	128	190
MAX	3975	3076	3276	4826	2843	3038	3335	8008	5436	2207	1246	1583
(WY)	1974	1995	1992	1998	1997	1998	1997	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	144606		88979			
ANNUAL MEAN	396		243		691	
HIGHEST ANNUAL MEAN					1941	1995
LOWEST ANNUAL MEAN					37.6	1978
HIGHEST DAILY MEAN	13700	May 18	8240	Jun 16	50700	May 4 1990
LOWEST DAILY MEAN	38	Sep 22	40	Oct 7	8.0	Jun 23 1979
ANNUAL SEVEN-DAY MINIMUM	44	Oct 2	44	Oct 2	15	Sep 30 1977
INSTANTANEOUS PEAK FLOW			10600	Jun 16	53000	May 3 1990
INSTANTANEOUS PEAK STAGE			15.93	Jun 16	22.01	May 3 1990
ANNUAL RUNOFF (AC-FT)	286800		176500		500800	
10 PERCENT EXCEEDS	1140		411		2280	
50 PERCENT EXCEEDS	65		64		60	
90 PERCENT EXCEEDS	49		50		26	

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.

WATER-DISCHARGE RECORDS

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

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 sea level. Prior to Feb 21, 1983, at datum 5.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since Sep 1953, at least 10% of contributing drainage area has been regulated by Lavon Lake (station 08060500, conservation pool storage 443,800 acre-ft). Additional regulation by Lake Ray Hubbard (station 08061550, conservation pool storage 490,000 acre-ft) since Mar 22, 1970. 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 with a combined detention capacity of 11,760 acre-ft. These structures control runoff from a 39.2 mi^2 area above this station. No flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	125	83	87	97	100	162	792	138	307	122	127
2	82	97	88	86	94	91	271	579	136	191	120	124
3	81	92	93	85	92	126	206	556	150	174	120	122
4	82	88	130	88	88	117	188	1690	1190	163	121	123
5	83	88	204	94	84	91	154	890	920	158	121	126
6	82	86	104	86	81	88	147	384	238	154	120	126
7	83	85	96	86	82	88	145	285	172	149	120	125
8	81	86	94	254	87	87	146	229	154	144	120	123
9	88	85	104	165	82	84	142	195	148	140	120	124
10	119	85	197	104	80	119	142	192	166	137	123	126
11	100	85	101	96	79	179	151	178	1130	135	120	129
12	91	86	1550	91	79	109	1030	166	3040	131	120	131
13	88	85	1440	87	79	97	501	160	2330	129	135	210
14	84	85	222	84	80	97	236	156	609	131	143	154
15	84	84	131	83	79	101	193	151	2200	130	143	136
16	81	86	109	82	78	106	359	149	5670	126	135	132
17	109	84	101	82	79	106	255	148	7200	124	124	127
18	97	84	518	82	79	113	181	146	5090	125	124	130
19	122	80	281	81	78	108	169	586	4950	124	122	131
20	129	81	118	81	76	112	163	899	2560	125	121	128
21	94	83	103	82	77	115	157	290	1560	127	124	128
22	85	83	99	81	81	248	152	202	1740	123	130	126
23	83	557	92	77	308	201	152	178	3530	121	133	127
24	81	224	90	78	161	156	154	169	2200	122	132	131
25	83	108	88	81	98	147	148	161	457	121	129	159
26	83	99	88	79	333	199	146	150	394	121	129	143
27	83	90	87	120	249	180	150	148	473	122	132	131
28	82	86	86	306	116	152	168	350	2310	123	134	128
29	82	83	86	131	103	368	151	199	2350	124	133	128
30	219	83	87	105	---	254	143	152	672	122	131	126
31	371	---	87	107	---	173	---	136	---	123	130	---
TOTAL	3195	3253	6757	3231	3179	4312	6462	10666	53877	4346	3931	3981
MEAN	103	108	218	104	110	139	215	344	1796	140	127	133
MAX	371	557	1550	306	333	368	1030	1690	7200	307	143	210
MIN	81	80	83	77	76	84	142	136	136	121	120	122
AC-FT	6340	6450	13400	6410	6310	8550	12820	21160	106900	8620	7800	7900

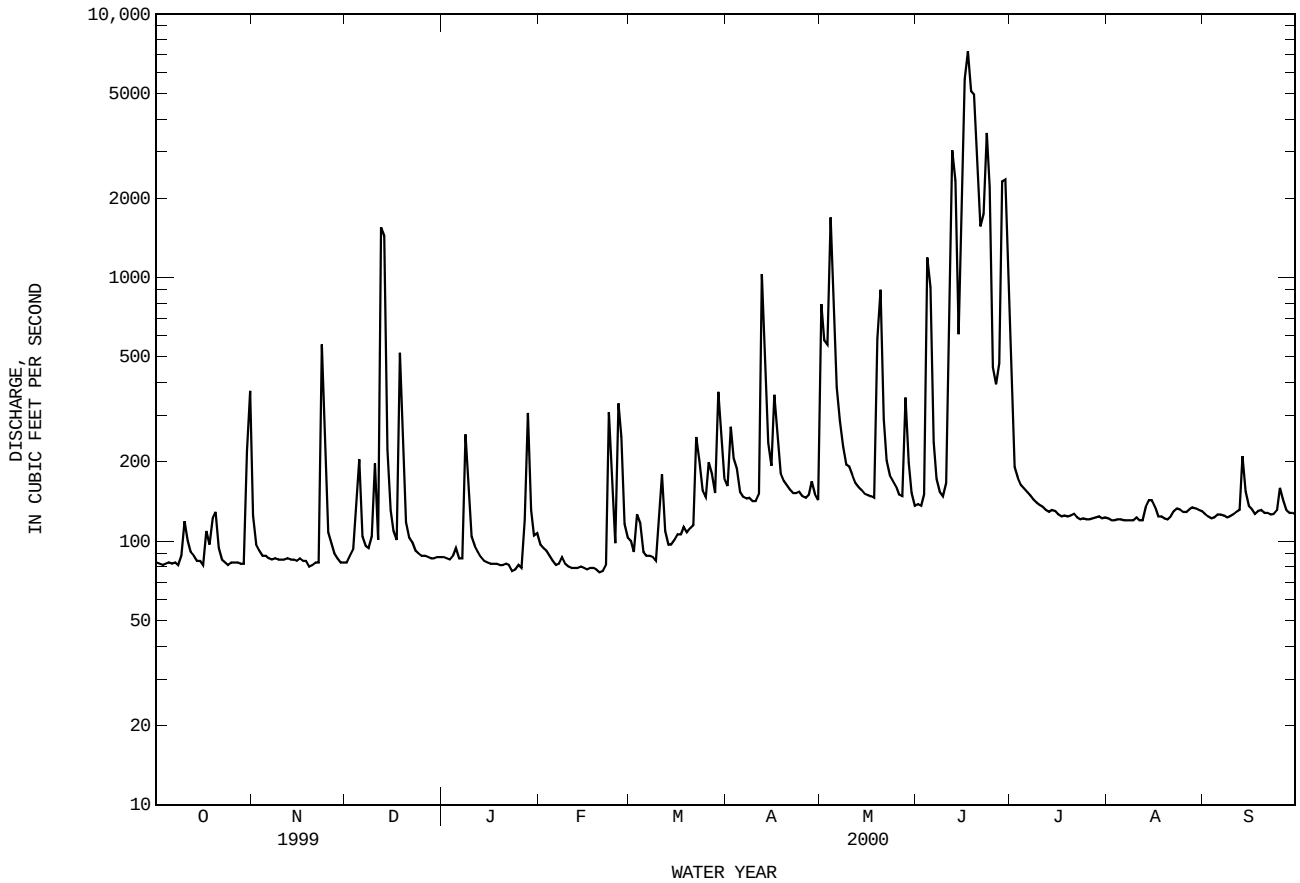
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000z, BY WATER YEAR (WY)

MEAN	381	482	696	604	790	905	1013	1720	1064	425	159	201
MAX	4116	3293	4401	5039	3539	3245	3755	9586	5718	2026	1459	1560
(WY)	1974	1995	1972	1998	1997	1998	1997	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	.000	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000z	
ANNUAL TOTAL	177243		107190			
ANNUAL MEAN	486		293		703	
HIGHEST ANNUAL MEAN					2209	1995
LOWEST ANNUAL MEAN					38.4	1955
HIGHEST DAILY MEAN	9240	May 19	7200	Jun 17	48800	May 5 1990
LOWEST DAILY MEAN	57	Apr 25	76	Feb 20	.00	Oct 1 1953
ANNUAL SEVEN-DAY MINIMUM	62	Apr 19	78	Feb 15	.00	Oct 1 1953
INSTANTANEOUS PEAK FLOW			7560	Jun 17	59900	May 5 1990
INSTANTANEOUS PEAK STAGE			10.47	Jun 17	27.17	May 5 1990
ANNUAL RUNOFF (AC-FT)	351600		212600		509100	
10 PERCENT EXCEEDS	1220		375		2130	
50 PERCENT EXCEEDS	99		125		95	
90 PERCENT EXCEEDS	78		82		20	

z Period of regulated streamflow.



08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Jan to Apr 1964, May 1966 to Sep 1981, Jun 1986 to current year.
BIOCHEMICAL DATA: Jan to Apr 1964, May 1966 to Sep 1981, Jun 1986 to current year.
PESTICIDE DATA: Mar 1977 to Jul 1981.
SEDIMENT DATA: Apr to Sep 1964.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1967 to Sep 1981, May 1986 to current year.
pH: Mar to Sep 1977, May 1986 to current year.
WATER TEMPERATURE: Oct 1967 to Sep 1981, May 1986 to current year.
DISSOLVED OXYGEN: Mar to Sep 1977, May 1986 to current year.

INSTRUMENTATION.--Water-quality monitor Mar to Nov 1977, May 1986 to current year.

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 using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 4%, chloride is 27%, sulfate is 14%, and hardness is 13%. 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, 1,010 microsiemens, Nov 23, 1968; minimum, 100 microsiemens, May 17, 1989.
pH: Maximum, 9.5 units, Oct 30, 1989; minimum, 6.7 units, on several days during 1988 and 1991.
WATER TEMPERATURE: Maximum, 34.0°C, Jun 26, Jul 1, Aug 16, 17, 1980; minimum, 1.0°C, Jan 3, 1979.
DISSOLVED OXYGEN: Maximum, 16.4 mg/L, Mar 13, 1996; minimum, 0.0 mg/L, on many days during 1977 and 1991.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 947 microsiemens, Apr 4; minimum, 167 microsiemens, Dec 12.
pH: Maximum, 8.4 units several winter days; minimum, 7.1 units, Feb 16.
WATER TEMPERATURE: Maximum, 32.5°C, Jul 15; minimum, 4.1°C, Jan 28.
DISSOLVED OXYGEN: Maximum, 10.6 mg/L, Jan 29; minimum, 3.3 mg/L, Dec 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
FEB										
01...	0900	108	658	7.9	9.6	8.9	78	2.7	190	57
MAR										
01...	0900	112	667	7.9	17.5	8.2	86	.7	200	61
JUN										
01...	0830	44	711	7.7	28.0	5.8	75	1.6	170	70
JUL										
13...	0830	58	731	7.7	29.8	5.2	69	1.3	160	52
26...	0830	54	794	7.6	27.6	5.3	68	1.1	170	82
AUG										
24...	0900	57	794	7.7	28.9	5.7	75	1.1	150	69

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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										
01...	66.9	5.25	56.0	2	9.1	130	80.5	58.5	.7	9.0
MAR										
01...	70.8	4.80	55.0	2	8.4	140	80.5	64.2	.6	9.3
JUN										
01...	57.4	5.29	67.7	2	10.1	95	87.2	84.6	.9	8.3
JUL										
13...	56.0	5.52	75.2	3	10.9	110	90.9	86.5	.7	9.7
26...	58.1	5.80	83.3	3	6.6	87	91.7	98.5	.7	10.0
AUG										
24...	52.2	5.74	78.9	3	12.5	85	84.2	99.1	.7	10.0

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB										
01...	400	6.70	.357	7.06	.593	.78	1.4	1.20	.995	3.05
MAR										
01...	406	6.24	.059	6.30	.114	.89	1.0	1.13	1.05	3.21
JUN										
01...	424	9.33	.124	9.45	.058	.87	.93	1.43	1.23	3.76
JUL										
13...	454	10.4	.262	10.7	.152	.96	1.1	1.95	1.77	5.43
26...	463	11.2	.109	11.3	.065	1.0	1.1	2.27	1.92	5.89
AUG										
24...	458	12.7	.050	12.7	.030	1.1	1.1	2.49	2.33	7.16

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1999 TO SEPTEMBER 2000

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	3195	609	358	3090	57	496	63	548	160
NOV.	1999	3253	591	348	3050	55	479	61	536	160
DEC.	1999	6757	414	241	4390	31	558	39	709	130
JAN.	2000	3231	660	391	3410	67	587	71	623	160
FEB.	2000	3179	661	391	3360	68	583	72	616	160
MAR.	2000	4312	649	383	4460	64	747	69	805	170
APR.	2000	6462	614	362	6310	60	1040	65	1130	160
MAY	2000	10666	473	276	7940	38	1080	46	1320	140
JUNE	2000	53877	326	187	27180	18	2570	27	3970	120
JULY	2000	4346	715	425	4990	78	918	80	940	170
AUG.	2000	3931	798	477	5060	94	1000	93	986	170
SEPT	2000	3981	780	466	5010	91	978	90	970	170
TOTAL		107190	**	**	78250	**	11040	**	13150	**
WTD.AVG.		293	463	270	**	38	**	45	**	130

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	713	699	704	451	320	399	672	657	666	735	720	728
2	730	707	722	509	450	478	685	661	672	735	728	731
3	725	715	720	562	509	529	690	664	673	732	713	720
4	716	698	709	643	562	602	675	502	655	717	703	712
5	706	696	700	681	642	659	636	344	438	715	687	699
6	697	675	685	688	679	683	534	369	466	692	662	677
7	676	662	667	696	686	693	559	531	545	741	671	712
8	701	672	689	697	690	694	597	554	574	750	231	604
9	705	699	702	690	683	686	628	597	611	509	397	429
10	718	664	683	684	675	679	682	307	434	569	462	523
11	750	572	646	687	674	678	539	367	462	634	562	591
12	598	578	590	701	687	696	555	167	255	718	633	664
13	602	573	589	708	696	702	325	199	247	746	718	732
14	634	602	614	716	706	711	434	325	374	766	746	757
15	656	634	646	733	716	725	550	434	495	768	754	763
16	673	656	666	726	715	721	616	550	592	780	766	771
17	700	376	617	715	696	704	649	616	629	807	780	794
18	646	397	588	696	677	685	671	218	493	807	793	799
19	670	520	635	706	674	699	406	268	333	796	769	779
20	604	447	556	713	701	707	498	406	460	784	757	772
21	536	441	492	720	708	713	594	497	549	802	780	790
22	609	536	565	740	719	731	645	593	612	808	802	804
23	684	607	646	740	177	461	677	645	659	814	802	807
24	701	684	690	423	277	355	695	677	688	825	812	819
25	716	701	711	543	423	491	703	695	699	825	805	812
26	720	702	714	607	529	559	701	694	697	805	779	787
27	702	664	679	658	607	633	700	693	697	782	659	757
28	676	663	667	661	627	646	708	693	699	659	363	444
29	699	676	688	646	616	629	708	693	697	495	403	454
30	699	221	589	671	646	660	717	698	706	563	495	538
31	481	292	327	---	---	---	727	716	722	636	555	609
MONTH	750	221	642	740	177	634	727	167	564	825	231	696

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	678	628	650	725	665	690	685	608	648	794	211	508
2	697	666	679	756	694	720	733	373	652	427	238	333
3	729	681	700	769	693	746	540	371	464	518	236	437
4	758	729	746	757	549	650	947	540	601	343	215	272
5	762	748	756	640	557	613	670	644	657	371	283	327
6	771	757	765	751	639	680	724	670	698	453	371	412
7	772	763	768	762	740	752	771	724	744	499	453	479
8	767	758	761	747	730	740	785	771	777	549	499	531
9	762	749	757	759	743	749	797	783	790	611	532	579
10	798	759	775	763	550	731	801	774	789	654	607	636
11	805	791	800	704	473	585	807	769	798	691	647	670
12	---	---	e800	599	466	538	769	264	394	692	677	684
13	---	---	e800	668	598	628	461	296	373	714	679	701
14	---	---	e790	724	668	693	583	461	530	731	710	721
15	---	---	e790	742	724	734	670	583	634	732	727	730
16	---	---	e790	772	742	760	702	358	541	736	722	730
17	798	780	789	794	766	778	653	479	541	750	723	741
18	809	795	801	794	776	781	607	502	566	767	742	755
19	818	804	812	806	783	795	729	607	666	768	255	593
20	818	804	810	804	730	749	747	728	739	412	242	323
21	815	808	813	793	752	779	780	744	762	452	391	418
22	821	798	814	785	389	636	785	777	781	546	452	503
23	798	334	598	693	467	527	793	779	787	615	546	585
24	511	375	429	606	505	572	794	779	789	666	615	633
25	600	511	567	727	606	659	789	781	785	716	666	691
26	646	251	542	758	577	703	790	774	784	775	715	746
27	478	254	370	697	577	659	792	772	782	777	757	769
28	585	478	546	679	640	652	808	748	777	773	380	628
29	675	583	638	692	310	562	823	773	807	570	421	478
30	---	---	---	518	329	430	822	794	817	643	570	612
31	---	---	---	608	518	568	---	---	---	694	637	657
MONTH	---	---	712	806	310	673	947	264	682	794	211	577

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	772	694	745	425	350	376	841	828	835	781	776	779
2	804	772	787	560	425	497	835	804	818	792	759	772
3	812	795	803	610	560	581	818	805	810	804	792	800
4	810	194	472	642	610	632	839	818	828	806	796	800
5	409	284	331	644	632	637	841	826	836	821	801	812
6	511	409	466	671	643	658	839	825	832	810	798	804
7	610	510	560	671	659	664	849	833	838	835	787	795
8	689	609	651	702	667	681	928	849	891	798	787	792
9	744	689	724	727	702	715	872	819	839	806	798	802
10	770	732	751	736	724	730	841	807	818	820	799	811
11	785	191	536	737	727	733	862	841	851	820	812	816
12	253	193	227	741	729	735	844	835	839	824	813	819
13	372	253	311	764	739	748	859	836	849	900	808	831
14	455	372	406	787	764	776	856	693	772	838	414	534
15	441	244	301	802	787	797	695	648	668	535	485	514
16	308	257	301	810	795	801	670	647	660	583	534	553
17	318	296	310	821	805	811	723	670	700	806	520	769
18	304	271	292	822	793	807	813	715	748	842	805	832
19	327	300	312	794	781	788	815	801	808	846	838	842
20	347	327	335	799	788	792	807	783	794	842	796	826
21	367	330	349	816	798	810	818	781	806	806	796	801
22	431	287	332	825	811	818	800	771	782	845	795	829
23	318	291	304	840	822	829	814	798	807	859	797	833
24	400	318	353	845	775	813	811	772	792	864	849	855
25	417	400	406	819	804	812	810	798	806	854	592	727
26	421	408	416	809	793	799	823	807	815	851	822	839
27	425	334	400	805	789	795	807	793	799	844	779	802
28	433	218	266	815	803	810	799	786	792	817	784	799
29	339	279	307	825	811	818	787	777	782	833	805	819
30	350	339	344	840	814	825	787	781	784	845	833	842
31	---	---	---	842	830	837	782	770	776	---	---	---
MONTH	812	191	437	845	350	740	928	647	799	900	414	782

e Estimated

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

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

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	22.6	21.1	22.0	18.8	17.5	18.2	15.2	13.9	14.7	14.2	12.5	13.4
2	23.0	20.9	21.9	18.4	16.9	17.4	16.4	14.7	15.4	15.8	14.2	14.8
3	24.4	22.1	23.2	16.9	15.1	15.8	18.4	16.4	17.3	16.4	15.4	16.0
4	24.1	22.7	23.3	16.4	14.5	15.6	18.9	17.5	18.5	15.4	12.9	13.9
5	23.3	22.0	22.8	18.2	16.2	17.1	17.5	15.1	16.5	12.9	11.0	11.6
6	23.1	21.9	22.6	19.6	18.1	18.9	15.1	13.5	14.2	11.2	9.7	10.6
7	22.6	21.2	22.0	20.5	19.0	19.8	13.5	12.1	12.6	12.4	11.2	11.9
8	23.0	21.7	22.4	20.5	19.4	20.0	14.6	12.4	13.4	13.4	11.5	12.4
9	23.9	22.5	23.2	20.2	19.1	19.8	15.8	14.6	15.2	12.9	11.7	12.3
10	24.2	22.9	23.7	20.3	19.0	19.7	15.4	14.0	14.7	13.1	12.0	12.6
11	24.4	23.2	23.9	20.7	19.4	20.1	14.0	13.5	13.7	13.6	12.2	13.0
12	24.8	23.2	24.0	20.8	19.4	20.2	14.3	10.8	11.4	15.6	13.1	14.3
13	24.9	23.2	24.1	20.5	19.3	20.0	11.3	10.4	10.8	16.1	15.2	15.6
14	24.9	23.3	24.1	20.4	19.0	19.7	11.6	10.6	11.1	15.5	14.1	14.6
15	24.9	23.4	24.1	20.1	18.9	19.6	11.7	10.6	11.2	14.2	13.0	13.8
16	25.2	23.8	24.5	19.8	18.6	19.3	11.2	10.7	11.0	16.0	14.0	14.9
17	24.8	20.3	22.9	19.4	18.2	18.9	11.9	10.3	11.0	17.0	15.6	16.3
18	20.3	19.3	19.7	19.4	18.3	18.9	13.4	11.2	11.8	17.8	16.4	17.1
19	19.4	17.6	18.7	20.0	19.1	19.5	11.9	10.7	11.3	17.5	16.5	17.1
20	18.8	17.3	17.9	19.6	18.5	19.1	11.8	11.2	11.6	16.9	14.8	15.7
21	18.6	17.1	17.8	18.5	17.2	17.8	11.4	10.8	11.1	14.8	12.9	13.5
22	19.4	17.5	18.5	19.6	17.7	18.5	11.1	9.9	10.4	14.2	12.7	13.4
23	19.7	18.4	19.1	19.9	18.5	19.3	10.6	9.3	10.1	14.9	13.8	14.4
24	19.3	17.9	18.7	18.5	16.6	17.6	11.3	9.7	10.6	14.6	13.1	13.7
25	18.9	17.4	18.3	16.6	15.7	16.3	11.6	10.2	11.0	13.2	11.7	12.2
26	19.7	17.9	18.8	15.7	14.1	14.7	11.8	10.5	11.2	11.9	10.5	11.1
27	20.1	18.6	19.4	15.3	13.6	14.5	12.9	11.4	12.2	10.5	5.6	9.2
28	20.4	19.2	19.9	16.4	14.7	15.6	12.7	11.6	12.3	5.9	4.1	5.0
29	20.8	19.7	20.3	16.4	15.4	16.0	12.8	11.4	12.3	5.8	4.9	5.4
30	20.6	18.1	19.8	16.1	15.1	15.6	13.4	12.1	12.8	7.9	5.5	6.7
31	18.8	17.6	18.0	---	---	---	13.7	12.5	13.2	9.2	7.0	8.2
MONTH	25.2	17.1	21.3	20.8	13.6	18.1	18.9	9.3	12.7	17.8	4.1	12.7

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.5	8.7	10.1	18.5	17.4	18.0	18.7	18.1	18.4	22.9	19.5	21.0
2	11.9	10.6	11.2	18.3	17.8	18.1	18.1	17.4	17.7	22.1	19.5	20.7
3	12.8	10.8	11.8	18.2	15.8	17.1	17.8	17.0	17.4	21.8	19.0	20.9
4	13.1	12.0	12.6	16.6	15.1	15.9	18.0	15.9	16.9	20.1	18.8	19.5
5	12.6	11.3	12.0	16.2	15.2	15.8	18.7	16.7	17.7	21.0	20.1	20.5
6	12.4	10.7	11.7	17.9	15.6	16.7	20.7	17.8	19.2	22.7	20.8	21.6
7	14.2	12.1	13.1	19.3	17.7	18.5	22.7	20.1	21.3	24.5	21.9	23.0
8	14.6	13.3	14.1	20.1	18.9	19.5	21.6	19.9	20.7	25.9	23.2	24.4
9	14.8	13.4	14.2	20.1	18.4	19.4	20.0	18.1	18.9	25.4	24.2	24.7
10	17.0	14.5	15.7	19.6	16.2	18.2	18.6	17.5	18.0	24.2	22.9	23.5
11	17.5	16.6	17.1	16.7	14.2	15.4	20.3	18.2	19.1	25.9	23.4	24.4
12	17.0	15.6	16.1	15.6	14.2	15.0	20.0	17.3	18.2	27.0	25.1	26.0
13	17.2	15.6	16.3	16.6	14.5	15.6	17.8	16.8	17.3	26.7	25.2	25.8
14	16.2	15.5	16.0	17.3	16.1	16.7	18.0	16.9	17.5	25.5	23.7	24.5
15	16.4	16.0	16.2	18.2	16.8	17.5	19.7	17.5	18.4	24.7	21.2	23.9
16	17.7	16.4	17.0	19.8	18.1	18.9	20.9	19.4	20.0	25.4	23.6	24.5
17	18.8	17.6	18.1	19.3	16.4	17.9	21.0	19.8	20.4	26.2	24.4	25.3
18	20.0	18.6	19.2	16.4	15.4	15.8	22.7	20.2	21.3	26.2	24.9	25.6
19	19.0	16.6	17.7	16.4	14.9	15.7	23.9	22.3	23.1	26.0	20.9	23.7
20	16.6	15.2	15.8	17.1	15.1	16.2	24.0	22.8	23.5	22.7	20.0	21.3
21	15.9	14.7	15.4	17.2	16.5	16.8	23.6	21.9	22.7	25.0	21.8	23.2
22	17.0	15.4	16.2	17.5	15.4	16.6	22.6	21.1	21.9	26.5	23.6	24.9
23	17.5	15.6	16.7	17.7	16.9	17.4	23.4	21.1	22.2	27.7	25.1	26.3
24	17.9	16.3	17.0	20.1	17.3	18.5	23.2	21.9	22.6	28.6	26.1	27.3
25	19.2	17.7	18.3	21.8	19.8	20.8	23.6	21.6	22.6	29.3	27.4	28.3
26	19.4	16.8	18.7	22.6	21.5	21.9	24.4	22.1	23.2	28.9	27.7	28.4
27	17.6	16.0	16.8	23.0	21.4	22.1	23.7	22.3	22.9	28.6	27.6	28.1
28	17.1	15.8	16.5	22.5	21.0	21.8	23.1	21.5	22.3	27.8	25.5	26.8
29	18.4	16.6	17.5	23.4	21.8	22.4	23.2	21.8	22.5	28.1	25.5	26.7
30	---	---	---	21.9	19.8	20.7	23.4	22.4	22.9	29.4	27.3	28.3
31	---	---	---	19.8	18.5	18.9	---	---	---	29.8	27.9	28.9
MONTH	20.0	8.7	15.5	23.4	14.2	18.1	24.4	15.9	20.4	29.8	18.8	24.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.5	28.0	28.9	28.1	27.0	27.5	30.1	28.2	29.2	30.6	29.0	29.8
2	29.4	27.8	28.6	28.9	27.1	27.9	30.5	28.2	29.3	30.8	29.0	29.9
3	28.7	27.3	28.0	29.4	27.5	28.4	30.4	28.4	29.4	31.2	29.4	30.3
4	27.3	23.8	25.2	29.6	27.8	28.8	31.0	28.9	29.9	31.1	29.5	30.4
5	25.8	23.9	24.7	30.3	28.2	29.2	31.0	29.2	30.1	30.8	29.4	30.0
6	26.3	23.8	25.0	30.5	28.6	29.5	31.0	29.1	30.1	29.8	28.2	29.0
7	26.1	24.0	25.1	30.6	28.7	29.6	31.2	29.3	30.2	29.1	27.6	28.4
8	26.0	24.4	25.2	30.9	29.2	30.0	31.1	29.3	30.2	28.4	27.1	27.5
9	26.0	25.3	25.6	31.3	29.6	30.4	30.8	29.2	30.0	27.6	26.4	27.0
10	25.9	25.1	25.5	31.3	29.6	30.5	30.8	29.0	29.9	29.0	27.1	28.0
11	25.6	23.6	24.6	31.4	29.5	30.5	31.0	29.1	30.1	29.7	27.8	28.7
12	25.0	23.7	24.2	31.6	29.5	30.6	31.1	29.4	30.2	29.3	27.6	28.4
13	26.2	24.9	25.5	32.0	30.0	31.0	30.6	29.3	30.0	27.6	26.3	26.9
14	26.7	25.6	26.1	32.3	30.3	31.3	29.8	28.4	29.0	27.9	25.7	26.8
15	25.8	23.9	24.8	32.5	30.8	31.7	29.7	28.1	28.9	28.6	27.0	27.8
16	26.1	24.8	25.4	32.2	30.9	31.6	30.5	28.8	29.6	28.0	26.3	27.1
17	26.1	25.2	25.7	31.5	29.8	30.7	31.0	29.2	30.0	26.6	24.8	25.6
18	25.4	24.7	25.1	31.5	29.5	30.6	31.1	29.1	30.1	25.5	23.6	24.6
19	26.1	25.3	25.7	31.8	29.6	30.7	30.8	29.2	30.1	25.2	23.4	24.4
20	26.6	25.9	26.2	32.1	29.9	31.0	30.3	28.6	29.5	26.2	24.0	25.0
21	27.4	26.2	26.7	32.2	30.0	31.1	30.1	28.4	29.3	26.4	24.9	25.7
22	26.6	25.9	26.2	31.7	30.2	31.0	30.3	28.4	29.3	27.0	25.5	26.2
23	27.0	26.0	26.5	31.1	29.6	30.4	30.3	28.7	29.5	28.2	26.5	27.3
24	27.3	26.1	26.7	30.3	28.5	29.4	30.8	28.8	29.8	27.9	25.4	27.0
25	28.4	26.4	27.3	29.3	27.7	28.5	31.0	29.1	30.0	25.4	22.4	23.3
26	28.1	26.6	27.4	29.8	27.4	28.6	31.1	29.4	30.2	22.4	20.6	21.4
27	27.7	26.3	27.0	29.4	28.2	28.9	30.8	29.1	30.0	21.8	20.0	21.0
28	27.3	25.4	26.3	29.2	27.6	28.5	30.7	29.0	29.9	22.1	20.2	21.2
29	27.9	26.5	27.2	29.0	27.9	28.4	30.8	29.0	29.9	22.7	20.8	21.8
30	28.1	27.4	27.8	29.6	27.6	28.6	30.7	28.8	29.8	23.1	21.2	22.2
31	---	---	---	30.0	28.2	29.1	30.6	28.8	29.8	---	---	---
MONTH	29.5	23.6	26.1	32.5	27.0	29.8	31.2	28.1	29.8	31.2	20.0	26.4
YEAR	32.5	4.1	21.3									

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	3.7	5.3	6.4	5.6	6.2	5.2	4.7	5.1	---	---	---
2	6.1	5.2	5.7	6.5	5.6	6.0	5.1	4.6	4.9	---	---	---
3	5.7	4.8	5.2	6.7	5.6	6.1	4.9	4.2	4.5	---	---	---
4	5.6	4.6	5.0	6.7	5.7	6.1	5.6	3.8	4.5	---	---	---
5	5.6	4.5	4.9	6.3	5.5	5.7	5.3	4.4	4.8	---	---	---
6	---	---	---	5.8	5.3	5.5	4.9	3.3	4.5	---	---	---
7	---	---	---	5.9	5.0	5.2	5.6	4.8	5.2	---	---	---
8	---	---	---	5.2	4.8	5.0	5.6	4.8	5.2	---	---	---
9	---	---	---	5.1	4.6	4.8	5.6	4.3	4.7	---	---	---
10	---	---	---	---	---	---	5.9	4.3	5.1	---	---	---
11	---	---	---	---	---	---	5.1	4.1	4.4	---	---	---
12	---	---	---	---	---	---	8.7	5.1	8.0	---	---	---
13	---	---	---	---	---	---	8.1	7.2	7.6	---	---	---
14	---	---	---	---	---	---	7.7	6.7	7.4	---	---	---
15	---	---	---	---	---	---	7.6	7.0	7.3	---	---	---
16	6.7	5.9	6.2	---	---	---	7.3	6.8	7.1	---	---	---
17	6.5	5.5	6.0	---	---	---	7.1	6.4	6.7	---	---	---
18	7.0	5.5	6.2	---	---	---	9.3	6.3	7.8	---	---	---
19	7.5	6.8	7.1	---	---	---	8.4	7.2	7.9	---	---	---
20	7.3	6.4	6.9	6.2	5.4	5.8	7.3	6.7	7.1	---	---	---
21	6.8	6.5	6.7	6.1	5.3	5.8	---	---	---	---	---	---
22	6.9	6.7	6.8	6.1	5.1	5.5	---	---	---	---	---	---
23	6.9	6.4	6.7	5.9	4.1	5.1	---	---	---	---	---	---
24	6.8	6.2	6.5	4.9	4.3	4.5	---	---	---	---	---	---
25	6.8	6.0	6.5	5.4	4.7	5.1	---	---	---	---	---	---
26	6.7	6.2	6.4	5.8	5.3	5.6	---	---	---	7.4	5.8	6.8
27	6.9	6.4	6.6	5.8	5.4	5.7	---	---	---	9.4	6.3	7.4
28	6.6	6.1	6.4	5.5	4.9	5.2	---	---	---	9.9	9.0	9.4
29	6.7	6.0	6.3	5.2	4.8	5.0	---	---	---	10.6	9.1	9.8
30	6.9	5.8	6.4	5.2	4.7	5.0	---	---	---	10.4	9.0	9.5
31	7.0	6.2	6.5	---	---	---	---	---	---	9.1	8.2	8.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	8.4	8.1	8.3	7.3	6.9	7.1	6.7	5.5	6.2
2	---	---	---	8.3	7.9	8.1	7.6	7.0	7.2	6.0	5.7	5.9
3	---	---	---	8.6	7.6	8.0	7.3	6.9	7.1	6.8	5.9	6.3
4	---	---	---	8.7	8.3	8.5	7.7	7.3	7.6	6.8	6.2	6.6
5	---	---	---	8.7	8.4	8.6	7.7	7.6	7.6	6.4	6.1	6.2
6	---	---	---	8.7	8.3	8.5	7.7	7.2	7.5	6.4	6.2	6.3
7	---	---	---	8.3	7.3	7.8	7.4	6.9	7.1	6.3	6.1	6.2
8	---	---	---	8.0	7.0	7.5	7.3	6.5	6.9	6.1	5.9	6.0
9	---	---	---	7.9	7.0	7.5	7.6	7.0	7.3	5.9	5.6	5.8
10	---	---	---	8.6	7.4	7.9	7.7	7.3	7.5	6.5	5.8	6.1
11	---	---	---	9.0	8.4	8.6	7.5	6.7	7.0	6.7	6.1	6.4
12	---	---	---	8.5	8.3	8.4	7.2	6.5	6.8	6.7	5.9	6.3
13	---	---	---	8.7	8.3	8.5	7.0	6.7	6.9	6.7	5.8	6.3
14	---	---	---	8.8	8.1	8.5	7.0	6.8	6.9	6.8	6.3	6.6
15	---	---	---	8.7	7.8	8.2	6.9	6.4	6.7	6.8	6.6	6.7
16	---	---	---	8.4	7.5	8.0	6.4	5.7	6.1	6.8	6.7	6.8
17	8.5	7.9	8.2	8.3	7.3	7.8	6.1	5.8	5.9	6.7	6.6	6.7
18	8.5	7.6	8.0	8.8	8.2	8.5	6.7	6.0	6.3	6.8	6.4	6.6
19	8.9	7.6	8.1	8.8	8.5	8.7	6.4	5.2	5.8	6.8	4.6	6.0
20	9.4	8.6	8.9	8.8	8.4	8.7	5.6	4.4	5.0	6.4	5.8	6.1
21	9.9	9.2	9.5	8.8	7.7	8.2	6.7	5.4	5.9	6.6	6.0	6.3
22	9.8	8.3	9.0	8.6	8.1	8.3	7.4	5.8	6.6	6.6	5.9	6.2
23	8.7	7.2	8.1	8.2	7.2	7.6	7.7	6.5	7.1	6.2	5.3	5.7
24	7.8	7.3	7.5	7.4	6.9	7.2	7.5	6.2	6.7	6.1	5.0	5.5
25	7.7	7.1	7.3	7.2	6.3	6.8	7.2	6.3	6.7	5.7	4.4	5.0
26	7.6	6.8	7.2	7.1	6.0	6.6	7.3	6.3	6.8	5.4	4.3	4.9
27	8.5	7.4	8.1	7.1	6.4	6.7	7.3	6.2	6.7	6.1	4.7	5.2
28	8.9	8.4	8.7	---	---	---	7.5	6.3	7.0	6.1	4.1	5.0
29	8.7	8.4	8.5	---	---	---	7.4	6.5	6.9	5.4	4.2	4.8
30	---	---	---	---	---	---	7.0	6.3	6.6	6.6	5.3	6.0
31	---	---	---	7.4	6.3	6.9	---	---	---	6.8	5.8	6.4
MONTH	---	---	---	---	---	---	7.7	4.4	6.8	6.8	4.1	6.0

08062000 EAST FORK TRINITY RIVER NEAR CRANDALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	5.6	6.2	7.1	6.3	6.7	6.7	5.5	6.0	7.2	6.0	6.6
2	6.8	6.5	6.7	6.6	5.5	6.0	6.9	5.7	6.2	7.2	6.0	6.4
3	6.8	6.5	6.7	6.8	5.1	5.9	6.8	5.8	6.2	---	---	---
4	6.9	5.4	6.3	7.2	5.3	6.2	7.0	5.5	6.2	---	---	---
5	6.6	5.7	6.2	7.6	5.2	6.3	6.8	5.5	6.0	---	---	---
6	6.8	6.6	6.7	7.9	5.2	6.5	6.5	5.0	5.7	---	---	---
7	6.8	6.7	6.7	7.6	5.3	6.5	6.8	5.5	6.1	---	---	---
8	6.8	6.7	6.8	7.2	5.0	6.0	7.0	5.6	6.3	7.0	6.4	6.7
9	---	---	---	7.3	4.4	5.7	6.8	5.8	6.2	7.2	6.3	6.7
10	6.8	6.5	6.7	7.0	4.7	5.8	7.1	5.7	6.3	7.1	6.0	6.5
11	6.8	5.8	6.5	6.4	4.4	5.4	6.8	5.6	6.1	6.7	5.8	6.2
12	5.8	4.7	5.0	6.9	4.8	5.7	6.5	5.2	5.9	6.3	5.0	5.9
13	5.9	4.7	5.1	7.4	5.2	6.2	6.6	5.4	6.0	5.8	4.0	5.2
14	6.3	5.8	6.2	6.8	4.9	5.9	7.4	5.2	6.3	4.6	3.0	3.5
15	6.4	5.3	6.0	6.8	4.5	5.7	7.5	5.7	6.6	5.8	4.4	5.1
16	5.6	5.0	5.3	7.4	4.6	5.9	7.3	5.6	6.5	6.1	5.1	5.7
17	5.8	5.1	5.4	8.9	5.0	6.7	6.9	5.6	6.2	6.4	5.6	6.0
18	5.3	4.7	5.0	7.5	4.9	6.2	6.4	5.5	6.0	6.6	6.0	6.2
19	5.4	5.0	5.2	6.6	5.0	5.7	6.1	5.2	5.6	6.6	6.1	6.4
20	6.1	4.9	5.6	5.6	4.2	4.9	6.3	5.2	5.6	6.5	6.0	6.2
21	6.1	5.3	5.6	5.0	3.9	4.4	6.7	5.2	5.7	6.2	5.6	5.8
22	6.5	4.7	6.1	4.8	3.7	4.2	6.6	5.3	5.8	5.7	5.4	5.5
23	6.0	5.2	5.5	4.7	4.0	4.4	6.4	5.5	5.9	6.1	5.3	5.6
24	5.8	5.2	5.5	6.4	4.2	5.2	7.5	5.5	6.6	5.8	5.2	5.4
25	6.0	5.6	5.8	6.2	4.9	5.5	7.4	6.4	6.9	6.0	5.1	5.7
26	6.1	5.4	5.8	6.6	5.6	6.0	7.4	6.3	6.9	6.3	5.7	6.1
27	6.2	5.5	5.8	6.4	5.8	6.1	7.5	6.4	7.1	6.4	6.1	6.2
28	5.8	4.9	5.5	6.4	5.6	5.9	7.2	5.9	6.5	6.4	5.7	6.1
29	6.3	5.1	5.6	6.0	5.3	5.6	7.1	5.6	6.2	5.7	5.1	5.4
30	6.7	6.3	6.5	6.0	5.3	5.7	6.2	5.2	5.7	5.8	5.2	5.5
31	---	---	---	5.8	4.6	5.1	6.7	5.7	6.1	---	---	---
MONTH	---	---	---	8.9	3.7	5.7	7.5	5.0	6.2	---	---	---

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.--Jul 1924 to Sep 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 sea level. Oct 1938 to Sep 1994 at present site and datum 5.00 ft higher. Jul 25, 1924, to Sep 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.--No estimated daily discharges. Records good. Since installation of gage in Jul 1924, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Regulation now occurs from 15 upstream reservoirs having a combined capacity of 3,350,000 acre-ft. 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 floodwater retarding structures with a combined detention capacity of 22,600 acre-ft 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	721	3170	946	868	1250	1610	1700	2650	888	2060	629	602
2	662	1820	979	927	1110	1400	1990	6950	865	1670	608	610
3	679	1360	975	1010	1090	1550	2520	4380	903	1560	604	602
4	631	1070	983	898	1010	2250	1870	6600	5550	1500	619	539
5	691	1010	1760	935	1030	1680	1410	6860	21900	1320	625	574
6	742	970	1400	842	1180	1310	1230	3070	11700	1210	590	644
7	785	956	1060	896	1220	1160	1140	2030	6310	1120	596	595
8	747	916	945	2100	1010	1110	1100	1590	4950	1090	630	581
9	735	913	1060	3890	907	1030	1000	1390	4450	1010	627	605
10	1020	903	2270	2340	888	1490	917	1270	4790	1010	605	562
11	1150	868	1710	1440	881	3660	992	1190	5530	975	626	571
12	918	877	6580	1160	884	2880	3840	1160	10100	950	589	700
13	816	896	11200	1070	905	1700	6330	1130	16900	926	590	1370
14	793	857	7540	1010	937	1320	3200	978	11700	897	618	875
15	760	849	2660	936	965	1230	1770	876	10000	871	635	741
16	747	878	1600	882	875	1260	2700	834	15400	806	608	661
17	803	815	1340	876	848	1340	4970	832	16400	810	582	635
18	859	900	2030	910	918	1200	3120	833	18200	825	606	609
19	1290	863	3480	876	923	1080	1740	2080	15400	764	568	623
20	2140	910	2000	904	907	1100	1390	8200	10800	747	567	604
21	1550	928	1420	881	892	1020	1210	5360	6650	705	561	608
22	1160	874	1210	893	896	2630	1090	2330	5550	666	571	597
23	1060	3310	1070	890	2850	3320	1030	1540	7260	661	580	622
24	1020	3730	1000	848	7820	2160	980	1310	6150	683	519	622
25	972	2050	967	860	4830	1660	975	1140	3680	607	598	817
26	951	1370	893	800	5920	2020	944	1010	3330	690	616	835
27	824	1130	887	836	5460	2520	907	956	3080	685	544	673
28	714	1050	928	2710	2560	1970	971	1090	5470	633	567	629
29	841	961	900	2780	1940	3870	948	1430	6920	638	584	611
30	1050	935	912	1720	---	6650	892	1090	2870	600	548	602
31	4130	---	893	1390	---	2650	---	939	---	607	556	---
TOTAL	31961	38139	63598	39378	52906	61830	54876	73098	243696	29296	18366	19919
MEAN	1031	1271	2052	1270	1824	1995	1829	2358	8123	945	592	664
MAX	4130	3730	11200	3890	7820	6650	6330	8200	21900	2060	635	1370
MIN	631	815	887	800	848	1020	892	832	865	600	519	539
AC-FT	63390	75650	126100	78110	104900	122600	108800	145000	483400	58110	36430	39510

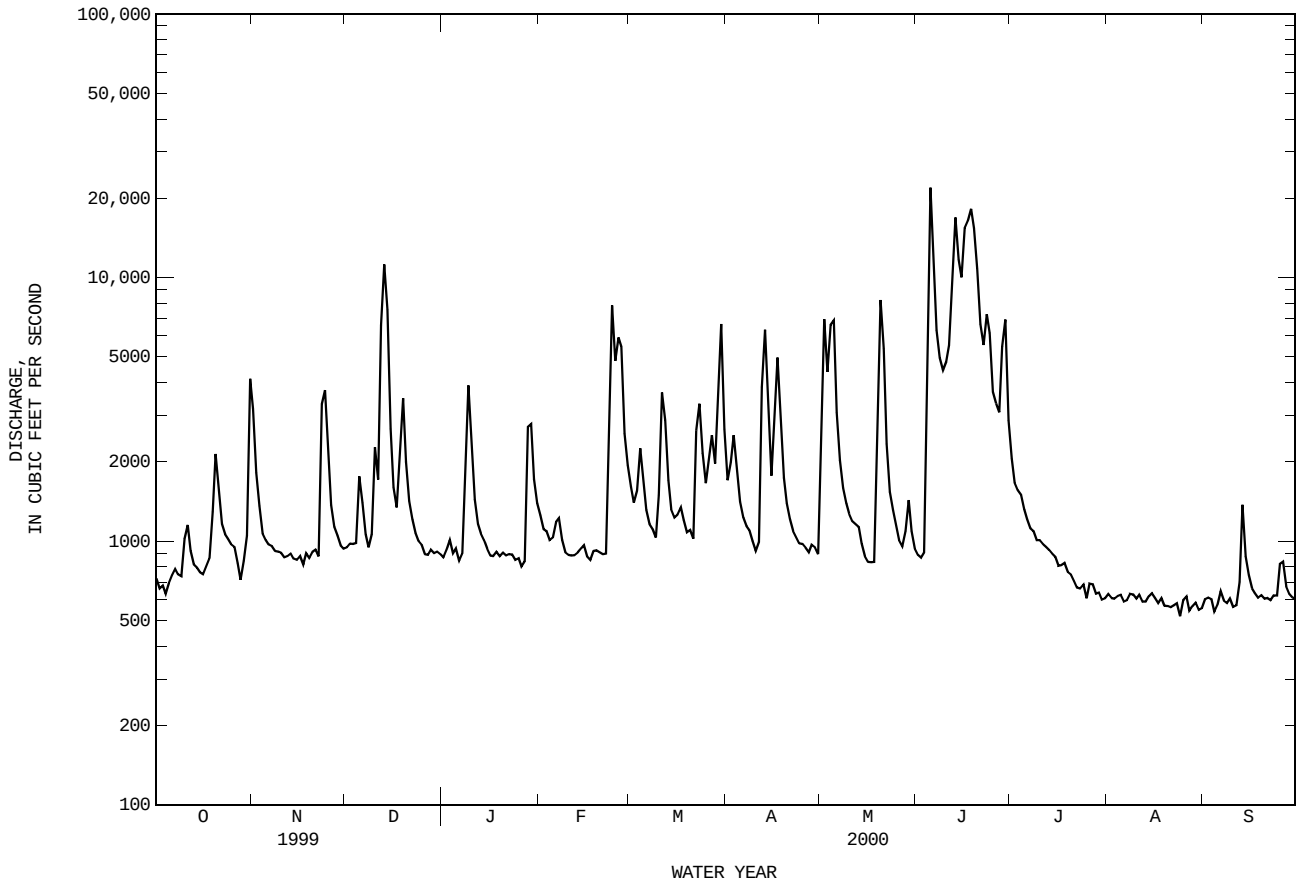
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000h, BY WATER YEAR (WY)

MEAN	1857	2338	2816	2228	3311	3811	4439	6539	5245	2009	1097	1169
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000h	
ANNUAL TOTAL	758515		727063			
ANNUAL MEAN	2078		1987		3070	
HIGHEST ANNUAL MEAN					9702	1992
LOWEST ANNUAL MEAN					280	1956
HIGHEST DAILY MEAN	17700	Jun 1	21900	Jun 5	133000	Apr 23 1942
LOWEST DAILY MEAN	631	Oct 4	519	Aug 24	32	Oct 4 1924
ANNUAL SEVEN-DAY MINIMUM	702	Oct 1	566	Aug 19	32	Oct 14 1924
INSTANTANEOUS PEAK FLOW			24700	Jun 5	150000	Apr 23 1942
INSTANTANEOUS PEAK STAGE			31.98	Jun 5	41.55	Apr 22 1942
ANNUAL RUNOFF (AC-FT)	1505000		1442000		2224000	
10 PERCENT EXCEEDS	3850		4800		8600	
50 PERCENT EXCEEDS	1210		982		918	
90 PERCENT EXCEEDS	818		608		220	

h See PERIOD OF RECORD paragraph.



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 Jul 1981.
SEDIMENT DATA: Oct 1963 to Sep 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 using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 5%, chloride is 16%, sulfate is 10% and for hardness is 10%. 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, Oct 13, 1956; minimum, 122 microsiemens, Sep 30, 1981.
pH: Maximum, 9.9 units, Jul 12, 1982; minimum, 6.7 units, May 19, 20, 1999.
WATER TEMPERATURE: Maximum, 36.0°C, Jul 1, 1955; minimum, 1.0°C, on many days during winter months.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Feb 18, 1996; minimum, 0.0 mg/L, on several days during 1979-81.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 797 microsiemens, May 1; minimum, 207 microsiemens, Jun 5.
pH: Maximum, 8.7 units, Apr 25, 26, 28; minimum, 7.3 units, Nov 25, 26.
WATER TEMPERATURE: Maximum, 32.4°C, Jul 21, 22; minimum, 7.5°C, Jan 30.
DISSOLVED OXYGEN: Maximum, 11.5 mg/L, Feb 1; minimum, 3.1 mg/L, May 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
FEB										
01...	0740	1310	571	8.0	9.9	10.5	93	1.1	170	57
MAR										
01...	0740	1660	495	7.9	17.9	8.5	90	.7	170	55
JUN										
01...	0730	889	652	7.9	29.0	6.9	91	1.3	170	48
JUL										
13...	0730	954	718	7.8	30.5	6.3	85	1.0	170	46
26...	0730	700	788	7.9	29.1	6.6	87	.8	180	51
AUG										
24...	0740	544	808	7.9	30.0	6.5	87	.6	160	44

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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										
01...	59.6	5.30	48.2	2	7.6	110	75.7	46.0	.9	5.1
MAR										
01...	61.2	4.51	37.9	1	6.5	120	72.5	39.4	.7	5.8
JUN										
01...	57.1	5.61	58.7	2	9.0	120	82.4	60.1	<.1	5.7
JUL										
13...	59.8	6.08	73.9	2	10.0	130	91.3	72.4	1.2	8.2
26...	60.2	6.61	82.3	3	12.7	130	91.7	82.8	1.2	8.6
AUG										
24...	53.8	6.71	85.0	3	11.9	120	94.4	86.1	1.3	9.7

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB										
01...	346	5.89	.037	5.93	.120	.60	.72	.896	.788	2.42
MAR										
01...	320	4.49	.038	4.53	.091	.56	.65	.638	.584	1.79
JUN										
01...	384	6.84	.117	6.96	.037	.77	.81	1.18	1.09	3.33
JUL										
13...	438	7.74	.077	7.82	.084	.82	.90	1.35	1.26	3.87
26...	472	9.93	.068	9.99	.116	.95	1.1	1.85	1.67	5.13
AUG										
24...	473	10.6	.049	10.6	.036	.96	.99	2.19	1.96	6.01

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1999 TO SEPTEMBER 2000

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	31961	664	387	33420	59	5110	78	6760	180
NOV.	1999	38139	551	318	32790	44	4490	62	6430	160
DEC.	1999	63598	499	288	49380	37	6410	56	9540	150
JAN.	2000	39378	638	371	39480	56	5920	75	7940	170
FEB.	2000	52906	578	335	47880	48	6790	66	9480	160
MAR.	2000	61830	584	338	56480	48	7970	67	11160	170
APR.	2000	54876	597	347	51340	50	7410	69	10220	170
MAY	2000	73098	514	297	58530	39	7750	58	11370	150
JUNE	2000	243696	370	211	138600	22	14430	39	25360	130
JULY	2000	29296	704	412	32600	66	5240	85	6700	180
AUG.	2000	18366	820	484	24020	87	4290	100	5100	180
SEPT	2000	19919	780	459	24690	79	4250	96	5180	180
TOTAL		727063.00	**	**	589200	**	80080	**	115300	**
WTD.AVG.		1990	519	300	**	41	**	59	**	150

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	715	688	702	---	---	e440	662	646	651	702	697	700
2	744	692	713	---	---	e470	676	662	668	722	701	710
3	696	684	691	---	---	e430	689	676	686	730	715	722
4	744	682	707	---	---	e450	687	676	682	728	696	716
5	726	692	711	---	---	e480	686	632	669	696	668	675
6	---	---	e700	---	---	e520	639	564	600	690	672	678
7	---	---	e680	---	---	e560	603	584	593	694	690	692
8	---	---	e670	---	---	e590	602	584	590	710	694	699
9	---	---	e690	---	---	e620	656	602	629	699	503	561
10	733	718	728	---	---	e650	694	554	659	548	473	496
11	718	662	695	---	---	e670	554	502	528	511	478	489
12	662	644	653	---	---	e680	561	230	424	575	511	538
13	651	641	645	---	---	e690	371	239	329	608	575	596
14	663	651	659	---	---	e680	395	353	370	660	608	639
15	678	662	673	---	---	e690	463	395	428	681	660	675
16	691	673	679	---	---	e700	524	463	498	694	670	683
17	694	684	690	---	---	e690	584	524	550	717	693	705
18	696	682	689	---	---	e700	648	584	609	719	714	717
19	695	673	686	721	707	714	602	429	500	727	715	722
20	696	635	668	721	699	711	518	461	484	728	718	722
21	635	568	591	706	699	703	540	498	517	726	711	721
22	577	558	563	708	699	703	555	504	528	725	715	720
23	592	563	574	701	265	435	609	555	583	732	713	722
24	630	592	609	447	367	422	645	609	633	738	732	736
25	646	624	635	478	444	456	683	645	669	735	722	728
26	663	646	655	556	478	520	690	680	685	733	721	728
27	692	663	676	609	556	577	694	687	691	728	709	717
28	694	676	687	627	609	622	695	687	693	718	600	688
29	685	656	672	639	627	635	687	680	683	605	527	551
30	---	---	e670	649	627	638	681	675	678	550	534	544
31	683	652	670	---	---	---	697	675	688	567	534	553
MONTH	---	---	669	---	---	595	697	230	587	738	473	663

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	602	567	580	496	449	468	571	488	529	797	538	768
2	629	602	610	538	496	517	643	571	611	538	393	454
3	659	629	643	663	538	623	650	575	624	468	419	439
4	676	659	670	679	631	659	622	593	610	499	381	429
5	689	671	684	640	563	602	616	601	612	412	372	396
6	704	686	697	606	562	582	644	609	618	449	410	424
7	724	697	706	659	606	632	696	644	674	515	439	475
8	738	724	729	675	655	662	722	696	709	553	515	538
9	726	657	696	693	674	679	755	722	746	595	553	575
10	673	655	664	696	675	688	766	745	759	647	594	615
11	696	673	683	675	538	604	775	727	750	688	647	661
12	737	696	717	634	548	602	765	467	666	713	688	698
13	737	730	733	607	575	591	561	469	489	738	713	727
14	746	735	741	609	603	606	493	464	472	746	728	737
15	748	740	744	632	607	614	559	493	523	740	731	736
16	750	731	742	673	632	652	658	559	599	757	736	745
17	731	717	723	699	673	682	575	411	474	788	757	775
18	746	721	728	705	692	699	508	450	461	792	771	783
19	755	746	751	702	676	690	541	470	514	794	673	762
20	753	734	741	733	687	718	624	541	580	673	338	403
21	740	728	734	747	727	739	672	624	644	429	392	411
22	735	720	729	732	532	685	709	672	693	444	427	433
23	730	574	702	654	478	544	734	709	720	491	444	468
24	588	426	465	575	473	531	763	734	755	570	491	520
25	485	452	465	593	575	586	782	761	774	616	570	594
26	501	485	493	612	555	587	771	763	766	672	616	643
27	512	501	505	621	567	604	775	759	765	706	672	694
28	512	408	456	647	609	632	790	775	781	699	687	693
29	449	410	428	664	375	586	790	782	786	719	642	682
30	---	---	---	444	360	408	789	768	777	655	609	634
31	---	---	---	488	409	449	---	---	---	662	634	647
MONTH	755	408	654	747	360	610	790	411	649	797	338	599

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	684	631	656	526	473	491	---	---	e810	---	---	e820
2	727	684	707	616	526	570	---	---	e800	---	---	e820
3	741	727	735	676	616	651	---	---	e810	---	---	e830
4	738	243	584	704	676	690	---	---	e810	---	---	e820
5	338	207	260	704	697	700	---	---	e820	---	---	e820
6	---	---	e310	704	698	701	---	---	e820	---	---	e830
7	---	---	e330	717	704	712	---	---	e830	---	---	e830
8	---	---	e380	722	709	717	---	---	e830	---	---	e830
9	---	---	e410	725	710	716	---	---	e840	---	---	e820
10	---	---	e440	748	725	736	---	---	e840	---	---	e800
11	---	---	e400	753	740	745	---	---	e830	---	---	e810
12	---	---	e320	---	---	e680	---	---	e830	---	---	e810
13	---	---	e350	---	---	e690	---	---	e820	---	---	e760
14	399	357	377	---	---	e700	---	---	e820	---	---	e750
15	442	291	382	---	---	e710	---	---	e830	---	---	e740
16	331	309	317	---	---	e720	---	---	e820	748	721	730
17	358	322	342	---	---	e740	---	---	e820	748	741	744
18	352	281	312	---	---	e750	---	---	e820	759	744	748
19	358	337	351	---	---	e750	---	---	e820	766	759	762
20	408	358	385	---	---	e760	---	---	e820	778	766	773
21	455	406	423	---	---	e770	---	---	e780	776	769	773
22	468	431	459	---	---	e740	---	---	e790	772	764	768
23	431	380	390	---	---	e750	---	---	e800	789	770	779
24	440	379	393	---	---	e760	---	---	e820	793	772	785
25	557	440	507	---	---	e780	---	---	e830	782	760	771
26	540	516	524	---	---	e790	---	---	e820	782	772	778
27	587	502	545	---	---	e800	---	---	e830	772	719	744
28	503	340	470	---	---	e810	---	---	e820	749	712	722
29	464	340	412	---	---	e810	---	---	e820	755	723	742
30	475	418	450	---	---	e790	---	---	e850	760	755	757
31	---	---	---	---	---	e800	---	---	e820	---	---	---
MONTH	---	---	431	---	---	727	---	---	820	---	---	782

e Estimated

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

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

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	23.7	22.8	23.3	---	---	---	16.3	15.5	15.9	14.7	13.6	14.1
2	24.0	22.4	23.1	---	---	---	16.9	15.9	16.4	16.2	14.7	15.5
3	24.2	22.0	23.1	---	---	---	18.1	16.8	17.5	16.4	15.3	16.0
4	24.2	22.6	23.4	---	---	---	18.8	18.0	18.4	15.3	13.7	14.5
5	24.0	22.6	23.1	---	---	---	18.0	16.8	17.3	13.7	12.5	13.0
6	24.6	22.4	23.6	---	---	---	16.8	15.4	15.9	12.9	12.1	12.5
7	24.4	22.6	23.5	---	---	---	15.4	14.3	14.8	13.3	12.7	13.0
8	24.6	22.8	23.7	---	---	---	15.0	14.4	14.7	14.3	12.8	13.3
9	24.4	23.0	23.7	---	---	---	15.8	14.9	15.4	14.3	13.0	13.4
10	24.6	22.8	23.6	---	---	---	16.0	15.2	15.6	13.3	12.1	12.5
11	---	---	---	---	---	---	15.7	14.4	15.0	13.0	12.2	12.5
12	---	---	---	---	---	---	14.4	11.5	13.2	14.8	13.0	13.9
13	---	---	---	---	---	---	12.4	11.5	11.9	15.5	14.7	15.1
14	25.8	24.5	25.1	---	---	---	11.7	11.3	11.5	15.0	14.4	14.6
15	25.8	24.6	25.1	19.8	19.0	19.4	11.5	11.1	11.3	15.2	14.4	14.8
16	25.5	24.6	25.0	20.2	19.2	19.7	11.4	11.1	11.2	16.0	14.9	15.4
17	25.1	22.6	24.1	20.2	19.2	19.7	11.9	11.1	11.3	16.7	15.6	16.1
18	22.6	21.0	21.5	20.4	19.2	19.8	13.6	11.9	12.7	17.5	16.3	16.8
19	21.2	20.7	20.9	20.8	19.6	20.2	13.4	12.5	12.9	17.8	16.8	17.3
20	20.8	19.5	20.1	20.2	19.5	19.9	13.1	11.9	12.3	17.3	15.9	16.7
21	19.9	19.0	19.5	20.0	19.3	19.6	11.9	11.4	11.6	15.9	14.7	15.1
22	20.4	19.6	19.9	19.6	18.6	19.2	11.4	11.1	11.2	15.6	14.6	15.0
23	20.2	19.6	19.9	18.8	18.1	18.6	11.4	10.7	11.0	15.6	14.8	15.2
24	20.2	19.4	19.8	18.5	17.9	18.2	12.0	11.0	11.5	14.8	13.9	14.4
25	20.2	19.4	19.8	17.9	16.5	17.1	12.3	11.5	11.8	14.1	13.3	13.6
26	20.5	19.5	20.0	16.5	15.8	16.0	12.5	11.8	12.2	13.4	12.3	12.8
27	20.9	19.7	20.3	16.1	15.5	15.8	13.3	12.2	12.7	12.3	10.3	11.1
28	---	---	---	16.7	15.8	16.2	13.1	12.2	12.7	10.3	8.5	9.8
29	---	---	---	17.1	16.4	16.7	13.6	12.4	13.0	8.5	7.6	7.9
30	---	---	---	16.7	16.0	16.3	14.1	13.2	13.6	8.3	7.5	7.9
31	---	---	---	---	---	---	14.1	13.2	13.7	9.1	8.2	8.5
MONTH	---	---	---	---	---	---	18.8	10.7	13.6	17.8	7.5	13.6

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.7	9.1	9.9	18.2	17.0	17.6	19.5	18.8	19.1	23.5	22.0	23.0
2	11.4	10.7	11.0	18.2	17.5	17.8	18.8	18.4	18.6	22.0	20.9	21.4
3	12.5	11.4	11.9	18.1	17.0	17.4	18.5	18.0	18.3	22.4	21.0	21.5
4	13.4	12.5	12.8	17.3	16.5	16.9	18.1	17.0	17.6	22.4	20.6	21.2
5	12.9	12.2	12.5	17.0	16.0	16.4	18.7	17.9	18.3	21.6	20.2	20.9
6	13.2	12.3	12.7	17.5	16.3	16.8	20.0	18.3	19.1	22.6	21.4	21.9
7	14.2	13.2	13.7	18.6	17.5	18.0	21.6	20.0	20.8	24.0	22.2	22.9
8	14.6	13.8	14.2	19.4	18.6	19.0	21.2	19.9	20.6	25.2	23.6	24.3
9	15.3	14.3	14.7	19.9	19.0	19.5	20.4	19.4	19.9	25.2	24.7	24.9
10	16.5	14.8	15.6	19.8	18.2	19.2	19.9	19.3	19.6	24.9	24.3	24.6
11	17.5	16.4	16.8	18.2	16.0	16.8	20.6	19.2	19.7	25.8	24.9	25.3
12	16.8	16.0	16.4	16.7	15.8	16.3	20.2	18.5	19.5	26.5	25.7	26.0
13	17.7	16.4	17.0	16.9	15.8	16.4	18.8	17.8	18.3	26.4	25.7	26.1
14	17.2	16.2	16.7	17.2	16.9	17.0	18.2	17.5	17.8	26.0	24.9	25.5
15	17.1	15.8	16.5	18.1	17.1	17.6	19.5	18.0	18.6	25.5	25.2	25.4
16	18.3	16.9	17.5	19.3	18.1	18.8	21.5	19.5	20.4	26.3	25.0	25.6
17	18.8	17.6	18.1	19.1	17.4	18.1	20.9	17.7	19.3	26.3	25.2	25.7
18	19.7	18.4	18.9	17.5	17.1	17.3	21.3	19.6	20.3	26.3	25.4	25.8
19	18.8	17.3	18.0	17.1	16.2	16.6	22.5	21.3	21.9	26.0	23.5	24.9
20	17.7	16.8	17.2	17.2	15.9	16.5	23.2	22.4	22.8	23.5	20.8	21.8
21	17.2	16.5	16.8	17.7	16.8	17.1	23.2	22.6	23.0	24.4	22.3	23.1
22	17.3	16.4	16.9	18.1	16.9	17.3	23.2	22.4	22.8	25.7	23.9	24.7
23	18.1	16.8	17.3	18.0	17.1	17.4	23.7	22.3	22.9	26.9	25.6	26.1
24	17.6	16.2	16.6	19.2	17.2	18.0	23.6	22.8	23.1	28.0	26.7	27.3
25	17.7	16.5	17.0	20.5	19.2	19.9	24.1	22.5	23.2	28.9	27.9	28.4
26	18.2	17.4	17.8	21.4	20.4	20.8	25.0	23.3	24.1	29.1	28.6	28.7
27	17.4	16.7	17.1	22.1	21.2	21.7	24.3	23.4	24.0	29.2	28.2	28.6
28	17.1	16.4	16.7	22.3	21.3	21.9	24.1	22.7	23.4	28.5	27.9	28.2
29	17.6	16.4	17.1	22.9	20.9	22.3	24.4	23.4	23.8	28.8	28.0	28.4
30	---	---	---	21.0	20.3	20.7	24.3	23.5	23.9	29.2	28.6	28.9
31	---	---	---	20.3	19.4	19.6	---	---	---	29.5	29.2	29.3
MONTH	19.7	9.1	15.7	22.9	15.8	18.3	25.0	17.0	20.8	29.5	20.2	25.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.3	29.0	29.5	29.0	27.9	28.3	30.9	29.3	30.1	31.9	30.5	31.2
2	29.2	29.0	29.1	28.5	28.1	28.3	31.1	29.5	30.3	31.7	30.3	31.1
3	29.6	28.7	29.2	28.9	28.2	28.6	31.1	29.6	30.3	32.0	30.5	31.3
4	28.7	23.6	26.9	29.4	28.6	29.0	31.2	29.8	30.6	32.1	30.7	31.4
5	25.0	22.9	23.7	30.1	28.9	29.5	31.4	30.1	30.7	---	---	---
6	25.0	24.0	24.6	30.6	29.4	30.0	31.3	29.9	30.7	---	---	---
7	25.0	23.8	24.4	31.1	29.8	30.4	31.4	30.1	30.8	---	---	---
8	---	---	---	31.5	30.2	30.8	31.5	30.1	30.8	---	---	---
9	---	---	---	31.6	30.6	31.1	31.1	30.0	30.6	---	---	---
10	---	---	---	31.6	30.4	31.0	31.3	29.9	30.6	---	---	---
11	---	---	---	31.5	30.3	30.9	31.7	30.1	30.9	---	---	---
12	26.6	25.4	25.9	---	---	---	31.8	30.4	31.1	---	---	---
13	26.5	25.2	25.8	---	---	---	31.5	30.4	30.9	---	---	---
14	26.6	25.5	26.2	---	---	---	30.9	29.8	30.4	---	---	---
15	26.5	25.1	25.8	---	---	---	31.2	29.8	30.5	---	---	---
16	26.0	25.0	25.4	---	---	---	31.6	30.0	30.8	28.5	27.4	27.9
17	26.5	26.0	26.2	---	---	---	31.8	30.4	31.1	27.7	26.5	27.1
18	26.2	25.3	25.8	31.9	30.5	31.3	32.0	30.5	31.2	27.1	25.8	26.5
19	26.6	25.9	26.2	32.0	30.7	31.3	31.8	30.6	31.2	26.7	25.4	26.1
20	27.6	26.3	26.8	32.3	30.7	31.4	31.3	30.1	30.8	26.7	25.4	26.1
21	28.1	26.9	27.4	32.4	30.8	31.6	31.2	30.3	30.8	27.0	25.8	26.3
22	28.4	27.1	27.7	32.4	31.1	31.7	31.2	30.0	30.6	27.4	26.1	26.7
23	28.0	27.0	27.5	31.8	30.6	31.2	31.2	30.1	30.7	28.0	26.9	27.4
24	28.2	27.0	27.5	31.1	29.8	30.5	31.5	30.1	30.8	27.7	26.3	27.3
25	28.8	27.6	28.2	30.6	29.3	30.0	31.6	30.4	31.0	26.3	23.9	24.7
26	29.3	28.4	28.8	30.7	29.0	29.9	31.7	30.4	31.1	24.0	23.1	23.6
27	29.3	28.6	28.9	30.4	29.3	29.8	31.5	30.3	30.9	23.9	22.6	23.2
28	28.8	27.3	27.9	30.2	28.8	29.5	31.4	30.2	30.8	23.8	22.3	23.0
29	28.1	27.4	27.8	30.2	29.2	29.7	31.4	30.2	30.8	24.1	22.4	23.2
30	29.1	27.9	28.4	30.1	28.8	29.5	31.5	30.2	30.8	24.4	22.8	23.6
31	---	---	---	30.6	29.1	29.8	31.5	31.0	31.3	---	---	---
MONTH	---	---	---	---	---	---	32.0	29.3	30.8	---	---	---

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.2	7.8	8.0	---	---	---
2	---	---	---	---	---	---	7.9	7.7	7.8	---	---	---
3	---	---	---	---	---	---	7.8	7.4	7.6	---	---	---
4	---	---	---	---	---	---	7.5	7.0	7.2	---	---	---
5	---	---	---	---	---	---	7.3	7.0	7.1	---	---	---
6	---	---	---	---	---	---	7.7	7.0	7.4	6.5	6.2	6.3
7	---	---	---	---	---	---	8.3	7.7	8.0	---	---	---
8	---	---	---	---	---	---	8.5	8.2	8.3	---	---	---
9	---	---	---	---	---	---	8.4	7.5	8.1	---	---	---
10	---	---	---	---	---	---	8.2	6.8	7.6	---	---	---
11	---	---	---	---	---	---	7.9	6.8	7.5	---	---	---
12	---	---	---	---	---	---	8.4	7.0	7.7	---	---	---
13	---	---	---	---	---	---	7.9	7.3	7.7	---	---	---
14	7.1	6.5	6.7	---	---	---	8.3	7.5	7.9	---	---	---
15	7.1	6.4	6.7	---	---	---	9.0	8.2	8.5	---	---	---
16	6.9	6.4	6.7	---	---	---	9.3	8.7	9.1	---	---	---
17	6.7	6.3	6.4	---	---	---	9.4	9.1	9.3	---	---	---
18	6.6	6.2	6.5	---	---	---	9.1	8.2	8.8	---	---	---
19	6.8	6.4	6.6	8.0	7.5	7.6	8.2	7.6	7.9	---	---	---
20	7.2	5.7	6.6	7.6	7.4	7.5	8.8	7.8	8.3	---	---	---
21	6.3	5.7	6.1	7.5	7.2	7.3	9.1	8.8	9.0	---	---	---
22	6.3	6.0	6.1	7.2	7.0	7.1	9.4	9.1	9.3	---	---	---
23	6.6	6.1	6.4	7.1	6.6	6.9	9.5	9.3	9.4	---	---	---
24	7.2	6.4	6.8	7.9	6.4	6.9	9.4	9.1	9.2	---	---	---
25	7.2	6.9	7.1	7.9	7.6	7.8	9.1	8.7	8.9	---	---	---
26	7.2	6.7	7.0	8.2	7.7	8.0	8.7	8.4	8.6	---	---	---
27	7.1	6.5	6.8	7.9	7.7	7.8	8.4	8.0	8.3	---	---	---
28	7.2	6.3	6.9	7.8	7.5	7.7	8.2	8.0	8.1	---	---	---
29	---	---	---	7.8	7.5	7.7	8.1	7.8	8.0	---	---	---
30	---	---	---	8.0	7.7	7.9	7.9	7.5	7.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.5	10.1	10.7	---	---	---	7.9	7.1	7.5	8.4	6.1	7.8
2	10.4	9.9	10.1	---	---	---	8.2	7.7	8.0	6.6	5.6	6.3
3	10.0	9.5	9.7	---	---	---	8.3	7.3	7.8	7.3	6.2	6.7
4	10.0	9.3	9.6	9.0	8.2	8.5	8.7	7.9	8.3	7.1	6.5	6.9
5	10.2	9.5	9.9	8.7	8.2	8.4	8.9	8.3	8.5	7.1	6.6	6.9
6	10.3	9.5	9.9	8.7	8.3	8.5	8.8	8.3	8.5	7.2	4.3	6.2
7	10.0	9.4	9.7	8.7	8.1	8.3	8.4	7.9	8.1	6.0	4.2	4.6
8	10.2	9.3	9.7	8.3	7.8	8.1	8.8	7.7	8.3	5.4	4.2	4.6
9	10.1	9.0	9.5	8.1	7.7	7.9	9.2	8.3	8.7	4.5	4.0	4.2
10	10.0	8.9	9.4	8.0	7.7	7.9	8.9	8.5	8.7	5.1	4.0	4.7
11	9.6	8.5	9.0	8.2	7.6	8.0	9.2	8.5	8.7	5.5	4.5	5.1
12	9.3	8.2	8.6	8.2	7.2	7.7	8.7	7.0	8.0	6.3	5.1	5.5
13	8.8	8.0	8.3	8.6	7.3	8.1	7.6	6.6	7.3	7.1	5.7	6.3
14	8.5	7.6	8.1	8.6	8.1	8.4	8.1	7.5	7.8	8.1	5.8	6.9
15	8.9	7.9	8.4	8.6	7.9	8.2	8.3	8.0	8.1	9.1	6.9	8.2
16	8.8	7.8	8.2	8.1	7.6	7.9	8.2	6.7	7.8	10.5	7.1	8.5
17	8.5	7.4	7.9	8.1	7.5	7.8	7.5	6.7	7.1	10.3	6.4	8.0
18	8.3	7.4	7.7	8.3	7.8	8.1	7.6	6.8	7.3	7.9	5.7	6.9
19	8.4	7.4	7.8	8.3	7.9	8.1	7.6	7.2	7.5	6.4	4.5	4.9
20	8.6	7.6	8.1	8.8	8.0	8.3	7.8	7.2	7.5	4.5	3.1	3.5
21	9.0	8.1	8.5	8.5	7.6	8.2	7.9	7.4	7.7	4.8	3.7	4.2
22	8.9	6.4	8.4	8.4	7.4	8.0	8.2	7.6	7.9	5.3	4.3	4.7
23	8.4	5.7	7.8	7.6	6.1	7.0	8.8	7.8	8.2	6.1	5.0	5.5
24	6.3	5.3	5.7	7.9	6.4	7.6	9.2	8.0	8.5	6.4	5.6	6.0
25	6.7	6.3	6.6	7.7	7.4	7.6	10.3	8.3	9.0	7.9	6.2	6.9
26	---	---	---	7.8	7.3	7.5	10.3	8.3	9.1	8.9	6.1	7.6
27	---	---	---	7.5	6.8	7.2	9.9	8.3	9.0	10.1	6.6	7.7
28	---	---	---	7.1	6.8	6.9	10.6	8.1	9.1	7.7	5.8	6.9
29	---	---	---	7.6	4.2	6.5	10.1	8.3	9.0	6.6	5.4	5.8
30	---	---	---	5.9	5.0	5.4	9.0	8.1	8.4	6.9	5.4	6.0
31	---	---	---	7.2	5.9	6.7	---	---	---	7.5	5.6	6.7
MONTH	---	---	---	---	---	---	10.6	6.6	8.2	10.5	3.1	6.2

08062500 TRINITY RIVER NEAR ROSSER, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	6.7	7.1	---	---	---	6.0	5.4	5.7	5.6	5.2	5.4
2	6.9	6.5	6.7	---	---	---	6.0	5.4	5.7	5.7	5.0	5.2
3	6.8	6.3	6.6	---	---	---	6.2	5.6	5.9	5.7	5.3	5.5
4	6.7	4.9	6.0	---	---	---	5.7	5.3	5.5	5.5	5.1	5.3
5	---	---	---	---	---	---	6.0	5.3	5.7	---	---	---
6	---	---	---	---	---	---	6.0	5.4	5.6	---	---	---
7	---	---	---	6.7	6.0	6.3	5.6	5.2	5.4	---	---	---
8	---	---	---	7.1	6.1	6.6	5.7	5.2	5.4	---	---	---
9	---	---	---	7.4	6.3	6.9	5.9	5.3	5.6	---	---	---
10	---	---	---	7.5	6.5	7.0	5.7	5.3	5.5	---	---	---
11	---	---	---	7.0	6.4	6.8	5.7	5.3	5.5	---	---	---
12	---	---	---	---	---	---	5.9	5.5	5.6	---	---	---
13	---	---	---	---	---	---	5.9	5.2	5.5	---	---	---
14	6.8	6.0	6.3	---	---	---	6.1	5.3	5.7	---	---	---
15	7.3	5.9	6.5	---	---	---	6.1	5.6	5.8	---	---	---
16	6.5	5.3	6.0	---	---	---	6.9	5.5	6.3	7.2	6.2	6.7
17	5.4	4.9	5.2	---	---	---	6.6	6.1	6.3	7.5	6.5	7.1
18	6.7	5.4	6.0	7.8	5.9	7.1	6.6	6.0	6.3	7.8	7.0	7.3
19	6.6	5.2	5.9	6.4	5.8	6.0	6.5	6.0	6.2	7.8	7.0	7.4
20	5.6	4.5	5.0	6.2	5.7	5.9	6.4	5.9	6.1	7.7	7.1	7.4
21	5.1	4.0	4.5	6.1	5.6	5.8	6.2	5.9	6.1	7.6	7.0	7.3
22	6.0	4.1	4.8	6.0	5.5	5.8	6.0	5.8	5.9	7.4	6.8	7.1
23	5.4	3.5	4.6	6.0	5.6	5.8	6.1	5.7	5.9	7.1	6.7	6.9
24	---	---	---	6.2	5.6	5.9	6.1	5.6	5.9	6.9	6.4	6.6
25	---	---	---	6.1	5.6	5.8	5.8	5.5	5.6	7.1	6.5	6.8
26	---	---	---	6.3	5.5	5.8	5.9	5.4	5.7	7.2	6.9	7.0
27	---	---	---	6.2	5.6	5.9	5.9	5.6	5.7	7.7	6.9	7.3
28	---	---	---	6.1	5.7	6.0	5.8	5.3	5.5	8.1	7.4	7.7
29	---	---	---	6.0	5.7	5.8	6.0	5.3	5.7	8.1	7.4	7.8
30	---	---	---	6.1	5.5	5.8	6.0	5.5	5.7	8.0	7.2	7.6
31	---	---	---	6.0	5.4	5.8	5.7	5.6	5.6	---	---	---
MONTH	---	---	---	---	---	---	6.9	5.2	5.8	---	---	---

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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct 1964 to current year. Records of gage height collected in this vicinity for period Oct 1913 to Sep 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.

REVISED RECORDS.--WDR TX-89-1: 1988. WDR TX-90-1: 1989.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 239.21 ft above sea level. Prior to May 3, 1967, at site 0.9 mi upstream at datum 1.28 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct 1964, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Regulation now occurs from 15 upstream reservoirs having a combined capacity of 3,350,000 acre-ft. 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. There are 62 floodwater-retarding structures with a combined detention capacity of 38,690 acre-ft in the drainage basin above this station. These structures control runoff from 126 mi^2 above this station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1908, 49.8 ft Apr 25, 1942 and 48.3 ft date unknown, (present site and datum), from records of the National Weather Service.

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

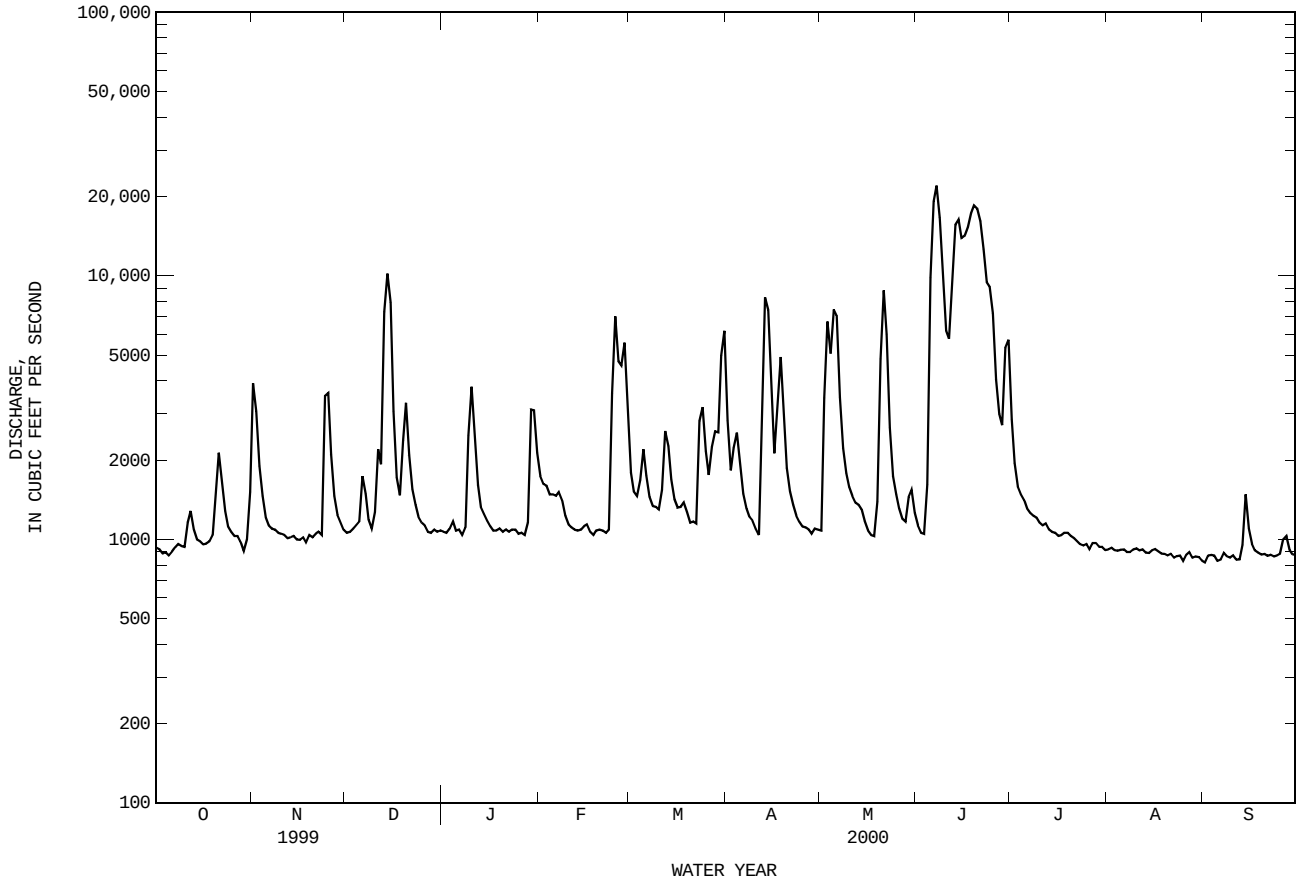
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	928	3910	1060	1070	1740	1790	2820	1080	1130	2850	916	818
2	916	3070	1070	1060	1620	1520	1830	3440	1060	1950	929	868
3	883	1900	1100	1100	1600	1460	2230	6710	1050	1590	912	874
4	893	1460	1130	1170	1480	1680	2540	5070	1610	1480	905	868
5	869	1210	1170	1080	1480	2200	1930	7460	9850	1410	914	829
6	899	1130	1740	1090	1460	1750	1490	7080	19200	1310	917	837
7	934	1100	1490	1040	1510	1450	1310	3460	22000	1260	895	888
8	962	1090	1190	1110	1410	1340	1220	2220	16600	1230	897	861
9	945	1060	1100	2480	1230	1330	1180	1780	10300	1210	916	852
10	937	1050	1270	3790	1140	1300	1100	1580	6180	1160	924	869
11	1160	1040	2200	2420	1110	1540	1040	1460	5770	1130	908	839
12	1280	1010	1930	1610	1090	2580	3090	1380	9900	1150	916	841
13	1090	1020	7300	1330	1080	2260	8260	1350	15600	1090	891	952
14	1000	1030	10200	1250	1090	1690	7410	1300	16300	1070	888	1480
15	982	1000	7930	1180	1120	1420	3800	1170	13900	1060	908	1100
16	958	997	3060	1120	1140	1320	2120	1080	14200	1030	919	962
17	963	1020	1720	1080	1070	1330	3270	1040	15300	1040	901	909
18	982	975	1470	1080	1040	1380	4920	1030	17300	1060	884	891
19	1040	1040	2380	1100	1080	1270	3120	1390	18500	1060	882	875
20	1440	1020	3300	1070	1090	1160	1870	4840	18000	1030	869	882
21	2130	1050	2090	1090	1080	1170	1520	8790	16100	1010	881	866
22	1670	1070	1550	1070	1060	1150	1350	6000	12600	985	851	873
23	1280	1040	1350	1090	1090	2810	1230	2650	9460	957	865	861
24	1120	3510	1220	1090	3580	3170	1170	1740	9090	948	868	870
25	1070	3600	1160	1050	7010	2160	1120	1480	7220	962	828	882
26	1030	2100	1130	1060	4740	1760	1110	1310	4040	918	875	1000
27	1030	1460	1070	1040	4570	2250	1090	1200	2990	968	897	1030
28	979	1240	1060	1160	5580	2570	1050	1170	2710	970	851	913
29	904	1160	1090	3110	2940	2550	1100	1450	5340	936	861	879
30	1000	1090	1070	3090	---	4990	1090	1540	5720	937	856	873
31	1510	---	1080	2130	---	6180	---	1260	---	912	832	---
TOTAL	33784	44452	67680	45210	57230	62530	68380	84510	309020	36673	27556	27342
MEAN	1090	1482	2183	1458	1973	2017	2279	2726	10300	1183	889	911
MAX	2130	3910	10200	3790	7010	6180	8260	8790	22000	2850	929	1480
MIN	869	975	1060	1040	1040	1150	1040	1030	1050	912	828	818
AC-FT	67010	88170	134200	89670	113500	124000	135600	167600	612900	72740	54660	54230

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

MEAN	2620	3911	4747	3652	5060	6301	5753	9150	6544	2466	1355	1210
MAX	11390	20160	24320	20490	20550	21210	20550	47120	26790	11800	6886	3347
(WY)	1974	1975	1992	1992	1992	1997	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL TOTAL	947310		864367			
ANNUAL MEAN	2595		2362		4393	
HIGHEST ANNUAL MEAN					11400	1992
LOWEST ANNUAL MEAN					854	1978
HIGHEST DAILY MEAN	27700	Feb 1	22000	Jun 7	94100	May 7 1990
LOWEST DAILY MEAN	722	Aug 30	818	Sep 1	312	Aug 9 1972
ANNUAL SEVEN-DAY MINIMUM	729	Aug 29	847	Aug 31	326	Jul 7 1972
INSTANTANEOUS PEAK FLOW			22600	Jun 7	94500	May 7 1990
INSTANTANEOUS PEAK STAGE			30.08	Jun 7	48.11	May 7 1990
ANNUAL RUNOFF (AC-FT)	1879000		1714000		3182000	
10 PERCENT EXCEEDS	4990		5150		12200	
50 PERCENT EXCEEDS	1350		1150		1280	
90 PERCENT EXCEEDS	830		888		513	



08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: May 1966 to Jun 1994.
BIOCHEMICAL DATA: May 1966 to Jun 1994.
PESTICIDE DATA: Nov 1977 to Jun 1982.
SEDIMENT DATA: Nov 1977 to Jun 1994.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Sep 1967 to Sep 1981, May 1986 to Sep 2000 (discontinued).
pH: Sep 1967 to Oct 1969, May 1986 to Sep 2000 (discontinued).
WATER TEMPERATURE: Sep 1967 to Sep 1981, May 1986 to Sep 2000 (discontinued).
DISSOLVED OXYGEN: Sep 1967 to Oct 1969, May 1986 to Sep 2000 (discontinued).

INSTRUMENTATION.--Water-quality monitor Apr 1967 to Oct 1969, May 1986 to Sep 2000 (discontinued).

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 (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, 1,000 micromsiemens Dec 28, 1977; minimum daily, 170 micromsiemens May 4, 1990.
pH: Maximum, 8.9 units, Mar 17, Apr 20 and 21, 1996, Aug 19, 20, 1999; minimum, 5.7 units, Aug 13, 1988.
WATER TEMPERATURE: Maximum daily, 34.0°C, Jul 17, 1979, Jul 9, 13, 1980; minimum daily, 2.5°C, Dec 24, 1989.
DISSOLVED OXYGEN: Maximum, 16.8 mg/L, Mar 11, 1986; minimum, 0.0 mg/L, May 3, 1987.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 848 microsiemens, Aug 30; minimum, 229 microsiemens, Jun 6.
pH: Maximum, 8.6 units, Mar 10, 11, 12, Apr 12; minimum, 7.4 units, May 25, 26.
WATER TEMPERATURE: Maximum, 33.5°C, Jul 15; minimum, 7.1°C, Jan 31.
DISSOLVED OXYGEN: Maximum, 11.3 mg/L, Jan 28; minimum, 2.8 mg/L, Oct 12.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	769	749	758	712	518	654	633	619	628	682	673	677
2	770	652	727	518	436	472	642	633	639	674	671	673
3	686	647	667	522	461	502	652	635	642	690	671	680
4	710	686	697	471	462	465	659	645	652	694	690	693
5	722	710	718	495	468	484	674	659	667	714	694	702
6	724	713	716	520	495	508	684	674	680	719	710	714
7	732	724	727	581	520	551	679	666	675	719	692	709
8	736	729	732	606	580	596	667	617	638	692	656	666
9	746	734	740	637	606	623	632	574	596	688	660	671
10	744	738	742	662	637	652	608	586	599	694	540	630
11	738	728	731	699	662	681	658	587	616	563	504	530
12	732	702	719	701	698	700	673	594	658	540	476	501
13	708	692	698	711	697	701	594	254	448	482	474	477
14	729	708	720	714	701	709	376	254	330	522	482	500
15	729	655	693	702	698	699	380	358	367	584	522	549
16	658	650	653	710	702	706	410	380	396	607	584	594
17	667	654	660	717	705	713	446	410	429	652	607	633
18	681	666	675	742	703	718	501	446	475	674	652	667
19	689	674	678	743	732	741	587	501	529	685	668	676
20	693	688	691	732	717	726	631	524	578	705	685	695
21	704	683	695	717	704	710	524	437	468	709	705	707
22	701	649	677	723	709	718	492	463	475	715	705	711
23	649	588	629	726	705	719	518	475	499	717	708	713
24	588	573	581	705	627	692	529	505	516	714	711	712
25	576	569	573	627	379	459	558	513	534	714	707	710
26	591	573	579	452	424	442	607	558	583	720	705	711
27	621	591	606	465	451	455	639	607	628	726	713	720
28	652	621	641	514	465	486	674	639	660	717	705	710
29	666	651	656	572	514	547	682	673	677	713	701	706
30	683	666	672	619	572	590	686	680	683	707	567	632
31	690	675	684	---	---	---	687	682	685	567	525	536
MONTH	770	569	682	743	379	614	687	254	569	726	474	652

08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	546	530	540	463	442	450	477	457	464	773	755	767
2	552	533	540	507	463	483	524	477	499	802	768	783
3	568	552	562	558	507	529	599	524	558	792	521	575
4	601	568	588	605	558	588	675	599	647	529	490	501
5	635	600	615	651	605	633	675	631	653	541	446	494
6	664	635	644	666	632	656	666	655	660	466	443	452
7	679	664	669	633	592	622	664	647	656	480	462	473
8	683	663	675	592	566	573	662	656	659	505	480	490
9	676	671	673	622	575	599	699	660	673	553	505	528
10	711	674	687	656	622	644	732	699	716	592	553	572
11	719	701	711	669	651	660	741	732	737	605	585	591
12	703	630	670	683	624	663	737	434	698	628	605	618
13	649	629	641	633	570	606	525	331	438	654	621	641
14	672	647	660	636	581	610	521	488	499	687	654	675
15	710	669	688	630	590	602	522	492	507	709	687	696
16	711	697	705	617	602	611	516	491	500	727	709	717
17	725	698	709	618	606	613	645	516	559	729	715	724
18	728	723	725	651	618	631	660	495	567	728	717	725
19	728	712	721	685	651	672	553	518	536	728	552	660
20	712	697	703	710	685	695	532	524	527	641	517	595
21	727	701	708	711	696	704	576	529	554	623	303	370
22	740	727	733	703	684	694	615	576	593	377	326	359
23	735	710	720	754	703	737	668	615	644	402	377	392
24	728	680	718	731	603	656	706	668	684	418	401	408
25	680	421	490	603	584	591	733	706	721	448	418	429
26	452	433	442	613	589	600	739	724	733	483	448	467
27	515	440	466	635	613	626	761	732	751	561	483	527
28	528	415	464	639	614	627	773	760	769	603	561	579
29	442	421	433	641	566	616	766	759	762	677	603	637
30	---	---	---	647	529	590	772	757	762	712	677	691
31	---	---	---	529	443	467	---	---	---	722	659	698
MONTH	740	415	631	754	442	614	773	331	624	802	303	575

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	710	636	679	414	388	401	805	790	796	825	807	813
2	672	623	644	438	410	426	820	805	812	829	825	827
3	675	644	658	455	438	442	823	792	809	829	815	825
4	649	538	639	516	455	484	820	794	808	821	808	813
5	573	242	413	579	516	549	820	807	813	837	815	821
6	290	229	256	612	579	598	815	801	806	839	824	833
7	321	288	302	628	612	621	806	797	801	827	816	823
8	340	321	330	626	618	623	818	800	807	820	813	817
9	396	340	369	635	617	624	818	814	817	819	816	818
10	430	396	417	647	635	643	833	817	823	829	818	824
11	476	430	453	653	644	650	842	823	836	819	792	802
12	473	340	415	667	647	656	843	837	840	812	798	806
13	340	271	293	690	667	680	844	838	842	806	799	802
14	338	314	327	708	690	697	840	827	834	811	771	792
15	351	338	346	715	701	707	828	822	825	784	769	776
16	404	307	358	720	715	716	828	818	824	797	782	789
17	329	310	319	738	720	727	825	816	821	798	734	763
18	343	321	332	754	738	746	834	825	830	734	617	661
19	338	300	316	763	754	756	833	814	822	770	647	712
20	345	320	338	765	759	762	814	806	808	782	770	779
21	372	345	355	764	760	762	806	803	804	791	782	787
22	422	372	395	771	743	763	811	746	792	808	791	803
23	477	422	458	743	726	732	823	810	815	825	808	816
24	477	409	430	741	727	733	823	814	817	828	820	826
25	420	409	412	756	741	753	837	817	823	823	816	820
26	499	420	450	769	755	762	840	832	835	844	816	831
27	566	499	534	783	768	774	837	815	828	846	829	839
28	559	524	534	798	782	792	816	807	814	843	824	833
29	568	436	499	813	797	806	828	811	816	846	840	843
30	447	353	408	812	803	807	848	817	836	842	793	814
31	---	---	---	803	785	790	817	809	814	---	---	---
MONTH	710	229	423	813	388	677	848	746	818	846	617	804
YEAR	848	229	641									

08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.4	8.2	8.1	7.8	8.1	8.0	8.2	8.1	---	---	8.4	8.3
2	8.4	8.2	7.9	7.8	8.1	8.0	8.2	8.1	---	---	8.3	8.3
3	8.3	8.1	8.0	7.9	8.0	8.0	8.3	8.1	---	---	8.4	8.3
4	8.4	8.2	8.1	8.0	8.0	8.0	8.3	8.2	---	---	8.4	8.4
5	8.5	8.3	8.1	8.1	8.0	7.9	8.2	7.9	---	---	8.4	8.4
6	8.5	8.3	8.1	8.1	8.0	7.9	8.2	7.9	---	---	8.4	8.4
7	8.5	8.3	8.2	8.1	7.9	7.9	8.2	8.1	---	---	8.4	8.4
8	8.4	8.2	8.2	8.2	7.9	7.8	8.2	8.1	---	---	8.5	8.4
9	8.4	8.2	8.2	8.2	7.9	7.8	8.3	8.0	---	---	8.5	8.5
10	8.3	8.2	8.2	8.2	8.0	7.9	8.0	7.8	---	---	8.6	8.5
11	8.3	8.1	8.3	8.2	8.0	8.0	8.0	7.8	---	---	8.6	8.5
12	8.2	8.1	8.3	8.2	8.0	7.9	8.0	8.0	---	---	8.6	8.2
13	8.2	8.1	8.3	8.2	8.2	7.9	8.1	8.0	---	---	8.2	8.2
14	8.3	8.1	8.4	8.3	8.2	8.0	8.1	8.1	---	---	8.2	8.1
15	---	---	8.3	8.2	8.1	8.0	8.1	8.0	---	---	8.3	8.2
16	---	---	8.4	8.2	8.1	8.0	8.1	8.0	---	---	8.4	8.3
17	---	---	8.3	8.2	8.1	8.1	8.2	8.0	---	---	8.5	8.4
18	---	---	8.3	8.2	8.1	8.1	8.2	8.1	---	---	8.4	8.4
19	---	---	8.2	8.2	8.1	8.0	8.3	8.1	---	---	8.5	8.3
20	---	---	8.3	8.2	8.0	8.0	---	---	---	---	8.5	8.4
21	7.9	7.8	8.3	8.2	8.1	8.0	---	---	---	---	8.5	8.4
22	7.9	7.8	8.2	8.1	8.2	8.1	---	---	---	---	8.4	8.3
23	7.9	7.8	8.2	8.1	8.2	8.2	---	---	---	---	8.5	8.2
24	8.0	7.9	8.2	7.9	8.2	8.1	---	---	---	---	8.2	8.1
25	8.0	8.0	8.0	7.9	8.2	8.1	---	---	8.3	8.2	8.1	8.0
26	8.1	8.0	8.0	7.9	8.2	8.2	---	---	8.3	8.3	8.2	8.1
27	8.1	8.0	8.0	8.0	8.2	8.2	---	---	8.4	8.3	8.2	8.1
28	8.2	8.1	8.0	8.0	8.2	8.2	---	---	8.4	8.3	8.2	8.2
29	8.3	8.1	8.0	8.0	8.2	8.1	---	---	8.4	8.3	8.2	8.2
30	8.2	8.1	8.0	8.0	8.2	8.1	---	---	---	---	8.3	8.1
31	8.2	8.1	---	---	8.1	8.1	---	---	---	---	8.3	8.1
MONTH	---	---	8.4	7.8	8.2	7.8	---	---	---	---	8.6	8.0

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

08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	22.5	23.2	20.1	19.1	19.5	15.1	14.5	14.9	13.1	11.8	12.4
2	24.1	22.4	23.2	19.3	17.5	18.3	15.9	14.8	15.4	14.3	13.1	13.8
3	24.4	23.0	23.6	17.5	16.6	17.0	17.3	15.9	16.7	15.0	14.1	14.6
4	24.3	23.1	23.7	17.4	16.1	16.7	17.6	16.9	17.4	14.1	12.8	13.5
5	24.2	22.9	23.5	18.1	16.6	17.3	16.9	15.5	16.1	12.8	11.8	12.3
6	24.0	22.6	23.3	18.7	17.7	18.1	15.5	14.6	15.1	12.0	11.6	11.8
7	23.5	22.0	22.8	19.0	18.0	18.6	15.0	14.2	14.6	12.4	11.9	12.2
8	24.0	22.9	23.4	19.3	18.3	18.8	15.3	14.3	14.7	12.3	12.0	12.1
9	24.6	23.4	23.9	19.4	18.5	19.0	15.3	14.7	15.1	12.8	11.9	12.3
10	24.8	23.4	24.0	20.0	18.9	19.4	14.7	14.0	14.4	13.6	12.8	13.3
11	24.9	23.6	24.2	20.4	19.2	19.8	14.2	13.8	14.0	13.3	12.3	12.8
12	25.1	23.7	24.4	20.7	19.5	20.1	14.6	14.2	14.4	14.0	13.0	13.5
13	25.2	23.8	24.5	20.6	19.6	20.1	14.3	11.5	13.2	14.0	13.2	13.6
14	25.4	24.2	24.8	20.6	19.5	20.0	12.1	11.4	11.7	13.6	12.7	13.2
15	25.6	24.5	24.9	20.4	19.4	19.9	11.6	11.0	11.2	13.9	12.7	13.2
16	25.6	24.5	25.0	20.1	19.2	19.6	11.0	10.3	10.6	14.7	13.8	14.2
17	25.1	22.6	24.0	20.0	19.1	19.5	10.9	10.2	10.5	15.5	14.5	15.0
18	22.6	21.0	21.8	19.9	19.0	19.4	11.7	10.7	11.1	16.5	15.3	15.9
19	21.0	20.1	20.5	20.1	19.4	19.7	12.1	10.5	11.1	16.7	15.8	16.2
20	20.5	19.2	19.8	19.5	18.5	19.0	12.5	11.8	12.3	16.2	14.7	15.4
21	20.1	19.1	19.6	18.6	18.1	18.4	11.8	11.0	11.4	14.7	13.8	14.2
22	20.0	19.0	19.6	19.4	18.4	18.9	11.0	10.1	10.5	15.0	13.9	14.4
23	20.1	18.9	19.5	19.7	18.7	19.4	10.4	9.5	9.9	15.1	14.4	14.7
24	19.3	18.0	18.7	19.0	18.2	18.6	10.5	9.5	10.0	14.5	13.3	13.8
25	19.0	18.0	18.6	18.8	17.4	18.0	10.3	9.7	10.0	13.3	12.4	12.9
26	19.6	18.2	18.9	17.4	16.1	16.6	10.5	9.8	10.2	12.4	11.0	11.8
27	20.0	18.7	19.3	16.2	15.4	15.8	11.3	10.3	10.8	11.0	9.0	9.9
28	20.7	19.4	20.0	16.3	15.2	15.7	11.3	10.4	10.8	9.0	8.3	8.6
29	21.0	19.9	20.4	16.0	15.3	15.7	11.7	10.6	11.1	8.9	8.2	8.5
30	20.7	19.6	20.2	15.7	14.9	15.2	12.2	11.4	11.8	8.9	7.6	8.1
31	19.6	19.0	19.2	---	---	---	12.5	11.6	12.1	7.8	7.1	7.5
MONTH	25.6	18.0	22.0	20.7	14.9	18.4	17.6	9.5	12.7	16.7	7.1	12.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.9	7.7	8.3	18.1	17.1	17.6	20.2	19.5	19.8	23.9	22.8	23.4
2	9.8	8.3	9.0	18.5	17.5	18.0	19.5	18.3	19.0	24.0	23.0	23.4
3	10.7	8.7	9.6	18.1	17.0	17.6	18.3	17.7	18.1	23.4	21.3	22.0
4	11.3	10.0	10.6	17.4	16.1	16.8	18.4	17.0	17.7	22.0	21.4	21.8
5	11.3	10.2	10.8	16.8	16.1	16.5	18.9	17.2	18.1	22.1	20.6	21.4
6	11.9	10.5	11.1	17.3	16.5	16.9	20.2	18.1	19.0	22.1	20.6	21.3
7	13.2	11.9	12.5	18.4	16.9	17.6	21.7	19.2	20.2	23.6	22.0	22.7
8	13.7	12.0	13.0	19.0	17.7	18.3	20.9	18.8	19.8	24.7	23.0	23.8
9	14.4	12.8	13.6	19.7	17.9	18.7	19.7	18.4	19.2	24.8	24.3	24.5
10	15.6	14.2	14.9	19.1	18.5	18.8	19.6	18.8	19.1	25.3	24.1	24.6
11	15.9	15.2	15.6	18.5	16.9	17.6	20.7	19.4	19.9	26.6	24.5	25.4
12	15.9	15.1	15.5	17.3	16.7	16.9	19.8	17.1	19.2	27.0	25.3	26.1
13	16.9	15.8	16.2	16.9	15.6	16.3	17.9	16.6	17.4	26.7	25.3	26.0
14	16.5	15.4	16.0	16.9	16.5	16.7	18.1	17.7	17.9	26.4	24.5	25.5
15	16.7	15.3	16.0	17.3	16.4	16.8	18.8	17.7	18.2	26.2	24.4	25.4
16	17.7	16.5	17.1	18.6	16.8	17.6	20.0	18.6	19.2	26.5	25.3	25.9
17	19.0	17.7	18.3	18.0	16.9	17.3	21.9	19.7	20.6	26.9	25.6	26.2
18	19.6	18.1	18.9	17.5	16.5	16.9	21.4	19.9	20.6	27.2	25.8	26.4
19	18.1	16.7	17.3	17.2	16.1	16.6	22.1	20.6	21.3	26.7	23.1	25.2
20	16.9	16.0	16.5	17.4	15.7	16.6	23.0	21.6	22.2	24.5	22.6	23.6
21	16.8	15.7	16.3	17.1	16.7	16.9	23.4	21.6	22.5	24.2	21.6	22.3
22	17.2	16.5	16.8	17.6	16.6	17.1	23.3	21.4	22.4	24.7	22.9	23.7
23	18.2	16.8	17.4	18.3	17.2	17.8	24.0	22.0	22.9	26.6	24.4	25.4
24	18.1	17.5	17.8	19.4	17.8	18.5	23.7	22.4	23.1	27.9	26.1	26.9
25	18.0	16.8	17.2	19.7	18.5	19.1	24.0	22.3	23.2	29.2	27.1	28.0
26	17.1	16.5	16.8	20.8	19.4	20.1	24.8	23.0	23.9	29.3	27.7	28.4
27	17.7	16.3	16.9	21.6	20.5	21.1	24.3	23.7	24.0	28.9	28.1	28.5
28	17.7	17.0	17.4	22.0	20.6	21.3	24.8	23.1	23.9	29.5	27.4	28.4
29	17.8	16.8	17.2	22.4	21.3	21.9	24.6	23.6	24.0	30.1	28.1	29.1
30	---	---	---	22.3	21.1	21.6	24.5	23.8	24.1	30.6	28.7	29.6
31	---	---	---	21.3	19.8	20.4	---	---	---	31.2	29.0	30.0
MONTH	19.6	7.7	15.0	22.4	15.6	18.1	24.8	16.6	20.7	31.2	20.6	25.3

08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.8	29.1	30.0	29.4	28.2	28.7	31.0	29.4	30.2	32.1	30.5	31.3
2	30.9	29.6	30.3	29.4	28.7	29.0	31.2	29.6	30.4	32.2	30.4	31.3
3	30.4	29.6	30.0	30.1	28.7	29.3	31.8	29.8	30.7	32.3	30.8	31.5
4	29.8	27.1	28.6	30.2	28.5	29.3	32.0	30.3	31.1	32.4	30.8	31.6
5	27.1	23.8	25.3	30.6	28.8	29.7	32.0	30.3	31.1	31.8	30.9	31.3
6	24.5	23.3	23.8	31.0	29.2	30.1	32.0	30.3	31.1	31.0	29.5	30.3
7	25.3	24.5	24.8	31.6	29.7	30.7	32.1	30.4	31.2	30.8	29.3	30.0
8	25.5	25.0	25.2	32.1	30.5	31.3	32.1	30.4	31.2	29.8	29.1	29.4
9	26.1	25.5	25.9	32.2	30.9	31.6	32.0	30.4	31.2	29.5	28.7	29.0
10	26.3	25.9	26.1	32.3	31.0	31.7	32.2	30.4	31.2	30.2	28.4	29.2
11	26.1	25.8	25.9	32.2	30.7	31.5	32.3	30.4	31.3	30.5	29.0	29.7
12	26.0	25.1	25.7	32.3	30.7	31.5	32.3	30.7	31.4	30.1	28.7	29.4
13	25.7	24.3	25.0	32.4	31.1	31.8	31.9	30.5	31.2	29.3	28.1	28.7
14	26.5	25.7	26.0	32.7	31.4	32.0	31.5	29.8	30.6	29.5	28.2	28.8
15	26.9	26.5	26.7	33.5	31.7	32.5	31.9	30.0	30.9	29.3	28.4	28.8
16	26.9	26.1	26.5	33.3	32.0	32.6	32.2	30.3	31.2	28.6	27.3	27.9
17	26.1	25.8	26.0	33.0	31.6	32.3	32.5	30.7	31.5	27.5	26.3	26.9
18	26.2	26.0	26.1	33.0	31.5	32.2	32.5	30.7	31.6	26.9	25.3	26.1
19	26.5	25.6	26.0	33.0	31.4	32.2	32.3	30.7	31.5	26.7	25.1	25.9
20	27.1	26.5	26.7	33.1	31.4	32.2	32.0	30.4	31.1	26.9	25.6	26.2
21	27.9	27.0	27.3	33.2	31.5	32.3	32.0	30.2	31.0	26.9	25.9	26.3
22	28.3	27.8	28.0	33.0	31.7	32.3	31.8	30.3	31.0	27.2	25.9	26.5
23	28.8	28.3	28.5	32.6	31.4	31.9	32.0	30.2	31.0	27.8	26.6	27.1
24	28.6	27.6	28.0	31.9	30.5	31.2	31.7	30.1	30.9	27.5	25.9	27.0
25	28.6	27.6	28.1	31.0	29.8	30.5	32.3	30.2	31.2	25.9	23.5	24.5
26	29.4	28.0	28.7	31.5	29.6	30.5	32.2	30.4	31.3	23.6	22.5	23.1
27	29.3	28.8	29.1	31.1	29.8	30.5	32.0	30.4	31.2	23.4	21.9	22.7
28	30.1	28.6	29.3	31.2	29.6	30.4	32.1	30.4	31.2	23.2	21.8	22.6
29	29.8	28.3	28.9	30.9	29.7	30.3	32.2	30.3	31.2	23.6	22.0	22.7
30	29.0	27.8	28.4	31.0	29.5	30.2	32.1	30.3	31.2	23.6	22.0	22.7
31	---	---	---	31.0	29.3	30.1	32.2	30.2	31.2	---	---	---
MONTH	30.9	23.3	27.2	33.5	28.2	31.0	32.5	29.4	31.1	32.4	21.8	27.6
YEAR	33.5	7.1	21.8									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	5.5	6.1	6.8	4.7	6.1	7.8	7.4	7.6	7.8	7.2	7.4
2	6.0	4.9	5.5	6.5	4.5	5.5	7.7	7.3	7.5	7.6	7.0	7.3
3	5.1	4.6	4.8	7.2	6.3	6.8	7.4	6.7	7.1	7.8	6.8	7.2
4	4.6	3.9	4.2	7.6	7.0	7.3	6.7	5.8	6.1	7.8	6.9	7.3
5	4.1	3.5	3.9	7.7	7.0	7.4	6.6	5.7	6.1	7.9	7.3	7.5
6	4.1	3.5	3.8	7.6	7.3	7.4	6.7	6.4	6.5	7.9	6.9	7.4
7	4.1	3.6	3.8	7.9	7.2	7.5	6.6	6.2	6.4	7.7	7.2	7.5
8	4.1	3.2	3.7	7.7	7.0	7.4	6.2	5.7	6.0	7.7	7.1	7.4
9	4.3	3.4	3.8	7.3	6.6	6.9	6.0	5.5	5.8	7.4	6.9	7.2
10	3.9	3.4	3.7	7.1	6.5	6.8	6.8	6.0	6.4	7.0	5.0	5.8
11	3.9	3.1	3.5	7.4	6.8	7.1	6.8	6.1	6.5	7.0	5.8	6.5
12	3.9	2.8	3.3	7.3	6.8	7.0	6.1	5.7	5.9	7.4	6.8	7.1
13	5.4	3.5	4.2	7.1	6.2	6.8	6.3	4.5	5.3	7.7	7.2	7.5
14	6.1	4.5	5.2	7.0	6.2	6.6	5.9	5.6	5.8	8.3	7.5	7.9
15	---	---	---	6.7	5.9	6.3	6.3	5.7	6.1	8.5	7.8	8.1
16	---	---	---	7.0	6.1	6.5	7.3	6.3	6.8	8.8	7.9	8.4
17	---	---	---	7.8	6.6	7.1	7.6	7.2	7.5	8.9	8.1	8.5
18	---	---	---	7.6	6.8	7.2	7.7	7.5	7.6	9.0	7.9	8.5
19	---	---	---	7.3	6.7	7.0	7.9	7.1	7.6	9.2	7.6	8.5
20	---	---	---	7.5	6.7	7.0	7.2	6.5	6.9	9.6	8.2	8.9
21	7.6	7.1	7.3	7.4	6.8	7.1	7.1	6.4	6.9	10.1	8.6	9.4
22	7.2	6.6	7.0	7.1	6.5	6.8	7.6	6.7	7.3	10.1	8.7	9.5
23	7.0	6.5	6.7	6.9	6.2	6.6	8.0	7.5	7.7	10.4	8.9	9.7
24	7.4	6.7	7.1	6.9	4.4	6.1	7.9	7.5	7.7	11.1	9.4	10.3
25	7.6	7.0	7.4	5.5	3.0	4.0	8.0	7.6	7.8	11.2	10.0	10.6
26	7.7	7.1	7.4	7.9	5.5	7.2	8.0	7.7	7.8	11.0	10.1	10.6
27	7.6	7.0	7.4	8.2	7.8	8.0	7.9	7.5	7.8	10.7	10.2	10.5
28	7.6	7.0	7.3	8.1	7.6	7.9	7.9	7.5	7.7	11.3	10.5	10.8
29	7.5	6.8	7.2	8.1	7.6	7.8	7.9	7.4	7.6	11.2	10.3	10.8
30	7.3	6.9	7.1	7.9	7.5	7.7	7.7	7.2	7.4	10.5	10.0	10.3
31	7.4	6.8	7.2	---	---	---	7.7	7.2	7.4	11.1	10.3	10.7
MONTH	---	---	---	8.2	3.0	6.9	8.0	4.5	6.9	11.3	5.0	8.6

08062700 TRINITY RIVER AT TRINIDAD, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.0	10.2	10.5	8.7	8.2	8.5	6.0	3.4	4.8	---	---	---
2	11.1	10.5	10.8	8.8	8.4	8.6	6.3	4.6	5.4	---	---	---
3	---	---	---	9.0	8.3	8.7	8.3	5.9	7.3	---	---	---
4	---	---	---	9.2	8.8	9.0	8.5	7.7	8.2	---	---	---
5	---	---	---	9.7	9.2	9.5	8.0	6.0	7.3	---	---	---
6	---	---	---	9.4	9.0	9.2	8.0	6.8	7.6	---	---	---
7	---	---	---	9.1	8.8	9.0	8.0	7.2	7.8	---	---	---
8	---	---	---	9.0	8.7	8.9	9.0	7.7	8.5	---	---	---
9	---	---	---	9.2	8.8	9.0	9.9	8.9	9.3	5.6	3.8	4.6
10	---	---	---	9.0	8.7	8.8	9.5	7.8	9.1	5.9	4.5	5.3
11	---	---	---	9.5	8.7	9.1	9.4	6.9	8.2	6.4	5.4	5.9
12	---	---	---	9.5	8.8	9.1	8.9	6.8	8.5	6.9	5.7	6.4
13	---	---	---	9.1	8.5	8.8	7.5	5.6	6.6	7.3	5.5	6.6
14	---	---	---	9.0	8.3	8.7	6.0	4.5	5.5	7.8	6.3	7.1
15	---	---	---	9.0	8.8	8.9	6.8	4.1	5.6	---	---	---
16	---	---	---	9.1	8.8	8.9	7.0	5.3	6.3	---	---	---
17	---	---	---	9.5	8.8	9.1	7.6	6.4	7.0	---	---	---
18	---	---	---	9.3	8.9	9.1	6.9	5.4	5.9	---	---	---
19	---	---	---	9.7	8.9	9.2	6.4	5.2	6.0	---	---	---
20	---	---	---	9.8	9.2	9.4	6.4	4.6	5.9	---	---	---
21	---	---	---	9.5	8.9	9.2	7.1	6.3	6.8	---	---	---
22	---	---	---	9.3	8.7	8.9	7.5	7.1	7.4	---	---	---
23	---	---	---	9.3	8.4	8.9	8.1	7.3	7.6	---	---	---
24	---	---	---	8.4	7.5	8.0	8.2	7.8	8.0	---	---	---
25	7.0	4.6	5.8	7.9	7.4	7.6	8.1	7.8	7.9	---	---	---
26	8.0	6.8	7.5	8.0	7.0	7.6	7.8	7.5	7.6	6.1	5.3	5.6
27	8.7	7.4	8.1	7.9	7.5	7.7	7.6	7.4	7.5	6.1	5.4	5.7
28	8.0	6.2	7.3	7.7	7.0	7.3	7.6	6.8	7.2	6.3	5.5	5.9
29	8.6	7.7	8.2	7.2	6.4	6.9	8.3	7.1	7.8	6.9	6.0	6.3
30	---	---	---	7.0	3.4	6.0	---	---	---	6.6	5.8	6.2
31	---	---	---	4.7	2.9	3.8	---	---	---	6.2	5.7	5.9
MONTH	---	---	---	9.8	2.9	8.4	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	5.7	6.1	7.1	5.5	5.9	5.1	4.9	5.0	5.8	5.4	5.5
2	7.0	5.9	6.4	7.4	6.0	6.9	5.3	4.8	5.1	5.7	5.2	5.4
3	6.4	5.5	5.9	7.8	7.2	7.5	5.7	5.1	5.3	5.9	5.4	5.6
4	5.9	5.5	5.8	8.5	7.4	8.0	5.8	5.1	5.4	5.9	5.4	5.6
5	5.5	3.4	4.6	8.3	7.9	8.1	5.8	5.1	5.4	5.8	5.3	5.5
6	4.1	3.5	3.8	8.5	8.0	8.2	5.6	5.0	5.2	5.9	5.2	5.5
7	3.9	3.6	3.7	8.6	8.0	8.3	5.3	5.0	5.1	5.7	5.3	5.4
8	4.3	3.7	3.9	8.6	7.6	8.1	5.4	4.9	5.1	5.4	5.1	5.2
9	4.6	3.9	4.2	8.2	7.3	7.7	5.6	5.0	5.2	5.4	5.0	5.2
10	5.5	4.3	4.9	---	---	---	5.5	5.0	5.2	5.4	5.0	5.2
11	5.7	5.0	5.3	---	---	---	5.7	4.8	5.2	5.4	4.9	5.1
12	5.2	4.1	4.7	---	---	---	5.7	5.1	5.4	---	---	---
13	---	---	---	---	---	---	6.1	5.3	5.6	---	---	---
14	---	---	---	---	---	---	6.2	5.4	5.8	---	---	---
15	---	---	---	---	---	---	5.8	5.3	5.5	---	---	---
16	---	---	---	---	---	---	5.8	5.1	5.4	6.0	5.5	5.8
17	---	---	---	---	---	---	5.6	4.9	5.3	5.9	5.6	5.7
18	---	---	---	---	---	---	5.5	4.9	5.2	6.1	5.2	5.6
19	---	---	---	---	---	---	5.7	5.1	5.3	6.1	5.6	5.8
20	---	---	---	---	---	---	5.7	5.0	5.3	6.4	5.7	5.9
21	---	---	---	6.4	5.4	6.0	6.0	5.2	5.5	6.2	5.8	6.0
22	---	---	---	6.5	5.4	5.9	5.6	4.7	5.3	6.2	5.8	5.9
23	---	---	---	6.4	5.5	5.9	5.8	5.2	5.4	6.1	5.8	5.9
24	---	---	---	6.1	5.4	5.8	5.7	5.2	5.4	6.2	5.7	5.9
25	6.9	5.2	5.9	5.9	5.3	5.6	6.1	5.4	5.7	6.6	6.0	6.3
26	5.8	5.1	5.3	5.7	5.1	5.4	5.9	5.3	5.5	6.9	6.3	6.6
27	6.2	5.5	5.8	5.5	4.8	5.1	6.0	5.3	5.6	7.0	6.6	6.8
28	7.0	5.3	6.3	5.5	5.1	5.3	6.1	5.3	5.6	7.1	6.6	6.8
29	6.4	4.7	5.5	5.2	5.0	5.1	6.1	5.3	5.6	7.1	6.6	6.8
30	5.7	4.8	5.2	5.4	5.1	5.3	6.3	5.3	5.7	7.0	6.5	6.8
31	---	---	---	5.3	5.0	5.1	6.2	5.5	5.8	---	---	---
MONTH	---	---	---	---	---	---	6.3	4.7	5.4	---	---	---

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-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by an earthfill embankment 4,700 ft long. The dam was begun in Feb 1955 and completed in Nov of the same year. Deliberate impoundment began when the construction was completed but the lake did not fill until May 1957. A 40-ft 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.--Capacity table was furnished by the Texas Water Development Board. There was no known diversion from the lake during the current water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 8,670 acre-ft, May 30, 1999, elevation, 505.65 ft; minimum contents, 3,800 acre-ft, Apr 30, 2000, elevation, 497.29 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 8,670 acre-ft, May 30, elevation, 505.65 ft; minimum contents, 5,860 acre-ft, Sep 30, elevation, 500.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,000 acre-ft, Jun 28, elevation, 502.07 ft; minimum contents, 3,800 acre-ft, Apr 30, elevation, 497.29 ft.

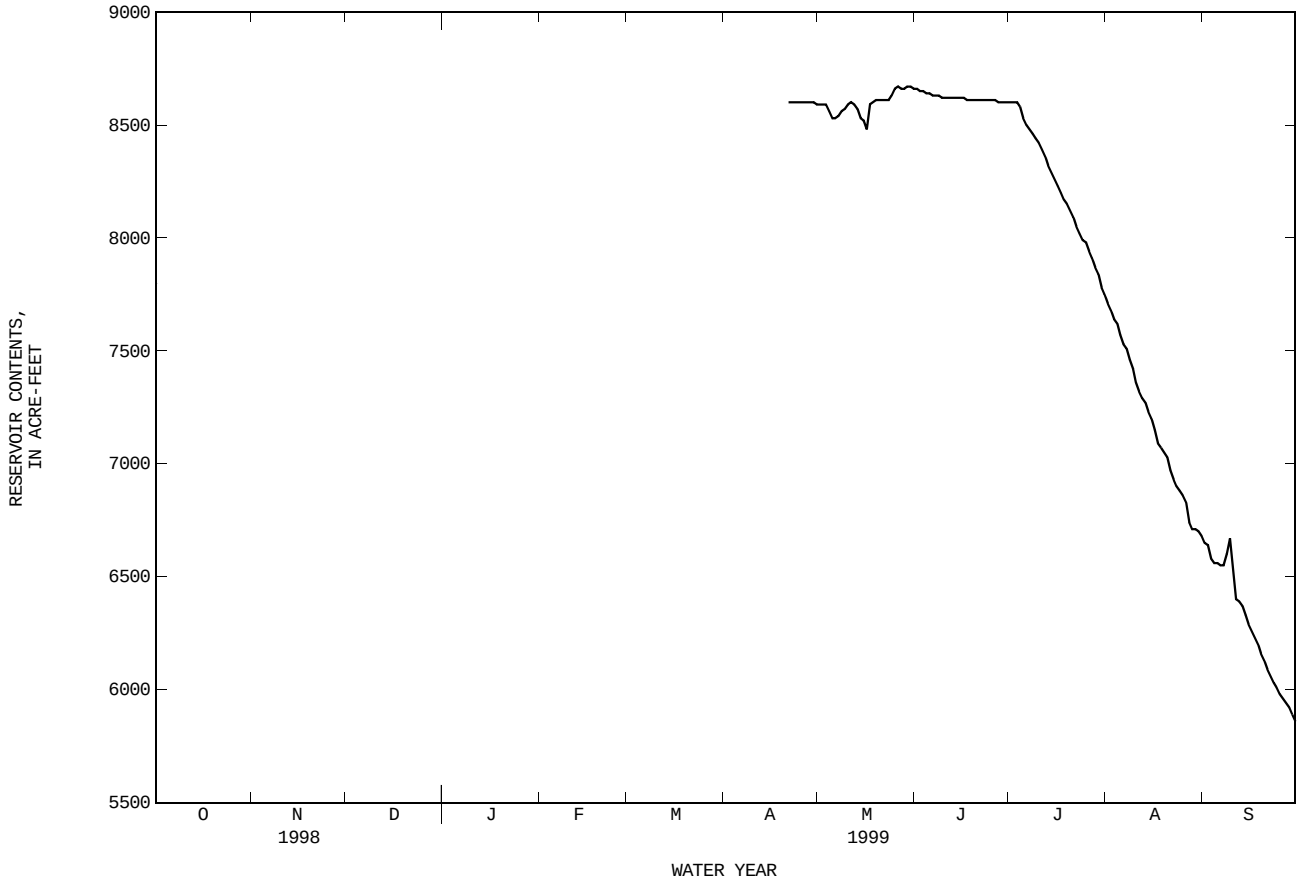
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	8590	8660	8600	7710	6650
2	---	---	---	---	---	---	---	8590	8650	8600	7680	6640
3	---	---	---	---	---	---	---	8590	8650	8600	7640	6580
4	---	---	---	---	---	---	---	8560	8640	8580	7620	6560
5	---	---	---	---	---	---	---	8530	8640	8530	7570	6560
6	---	---	---	---	---	---	---	8530	8630	8500	7530	6550
7	---	---	---	---	---	---	---	8540	8630	8480	7510	6550
8	---	---	---	---	---	---	---	8560	8630	8460	7460	6600
9	---	---	---	---	---	---	---	8570	8620	8440	7420	6670
10	---	---	---	---	---	---	---	8590	8620	8420	7360	6540
11	---	---	---	---	---	---	---	8600	8620	8390	7320	6400
12	---	---	---	---	---	---	---	8590	8620	8360	7290	6390
13	---	---	---	---	---	---	---	8570	8620	8320	7270	6370
14	---	---	---	---	---	---	---	8530	8620	8290	7230	6330
15	---	---	---	---	---	---	---	8520	8620	8260	7200	6290
16	---	---	---	---	---	---	---	8480	8620	8230	7150	6260
17	---	---	---	---	---	---	---	8590	8610	8200	7090	6230
18	---	---	---	---	---	---	---	8600	8610	8170	7070	6200
19	---	---	---	---	---	---	---	8610	8610	8150	7050	6160
20	---	---	---	---	---	---	---	8610	8610	8120	7030	6130
21	---	---	---	---	---	---	8600	8610	8610	8090	6970	6090
22	---	---	---	---	---	---	8600	8610	8610	8050	6930	6060
23	---	---	---	---	---	---	8600	8610	8610	8020	6900	6030
24	---	---	---	---	---	---	8600	8630	8610	7990	6880	6010
25	---	---	---	---	---	---	8600	8660	8610	7980	6860	5980
26	---	---	---	---	---	---	8600	8670	8610	7940	6830	5960
27	---	---	---	---	---	---	8600	8660	8600	7910	6740	5940
28	---	---	---	---	---	---	8600	8660	8600	7870	6710	5920
29	---	---	---	---	---	---	8600	8670	8600	7840	6710	5890
30	---	---	---	---	---	---	8590	8670	8600	7780	6700	5860
31	---	---	---	---	---	---	---	8660	---	7750	6680	---
MAX	---	---	---	---	---	---	---	8670	8660	8600	7710	6670
MIN	---	---	---	---	---	---	---	8480	8600	7750	6680	5860
(+)							504.02	505.54	504.17	503.00	501.66	500.55
(@)								+70	-60	-850	-1070	-820

WTR YR 1999 MAX 8670 MIN 5860

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

08062730 NEW TERRELL CITY LAKE NEAR TERRELL, TX--Continued



08062730 NEW TERRELL CITY LAKE NEAR TERRELL, TX--Continued

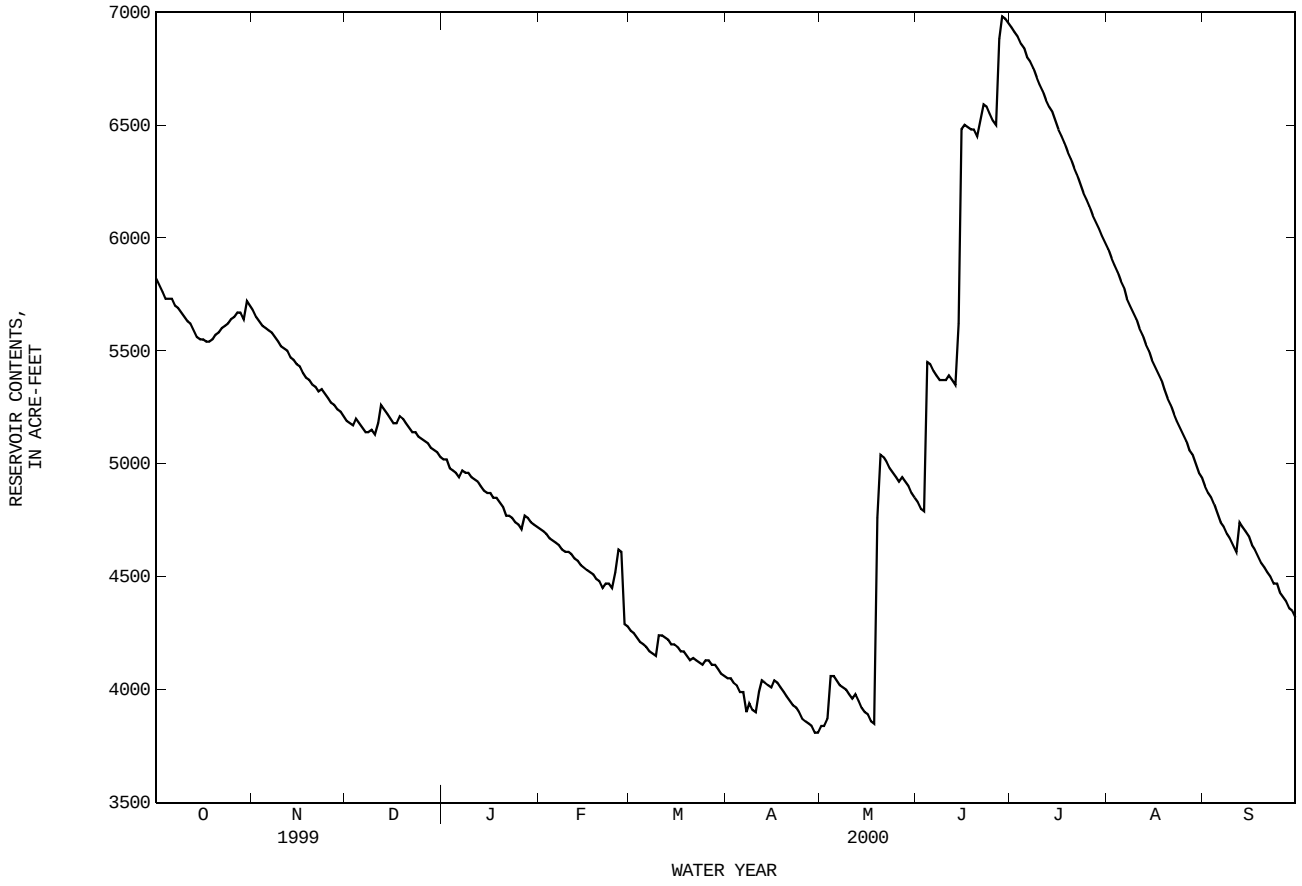
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5820	5680	5190	5020	4710	4260	4050	3840	4830	6930	5950	4900
2	5790	5650	5180	5020	4700	4250	4050	3840	4800	6910	5910	4870
3	5760	5630	5170	4980	4690	4230	4030	3870	4790	6890	5880	4850
4	5730	5610	5200	4970	4670	4210	4020	4060	5450	6860	5850	4820
5	5730	5600	5180	4960	4660	4200	3990	4060	5440	6840	5810	4780
6	5730	5590	5160	4940	4650	4190	3990	4040	5410	6800	5780	4740
7	5700	5580	5140	4970	4640	4170	3900	4020	5390	6780	5730	4720
8	5690	5560	5140	4960	4620	4160	3940	4010	5370	6750	5700	4690
9	5670	5540	5150	4960	4610	4150	3910	4000	5370	6710	5670	4670
10	5650	5520	5130	4940	4610	4240	3900	3980	5370	6680	5640	4640
11	5630	5510	5180	4930	4600	4240	3990	3960	5390	6650	5600	4610
12	5620	5500	5260	4920	4580	4230	4040	3980	5370	6610	5570	4740
13	5590	5470	5240	4900	4570	4220	4030	3950	5350	6580	5530	4720
14	5560	5460	5220	4880	4550	4200	4020	3920	5620	6560	5500	4700
15	5550	5440	5200	4870	4540	4200	4010	3900	6480	6520	5460	4680
16	5550	5430	5180	4870	4530	4190	4040	3890	6500	6480	5430	4640
17	5540	5400	5180	4850	4520	4170	4030	3860	6490	6450	5400	4620
18	5540	5380	5210	4850	4510	4170	4010	3850	6480	6420	5370	4590
19	5550	5370	5200	4830	4490	4150	3990	4760	6480	6380	5330	4560
20	5570	5350	5180	4810	4480	4130	3970	5040	6450	6350	5290	4540
21	5580	5340	5160	4770	4450	4140	3950	5030	6520	6310	5260	4520
22	5600	5320	5140	4770	4470	4130	3930	5010	6590	6280	5220	4500
23	5610	5330	5140	4760	4470	4120	3920	4980	6580	6240	5190	4470
24	5620	5310	5120	4740	4450	4110	3900	4960	6550	6200	5160	4470
25	5640	5290	5110	4730	4520	4130	3870	4940	6520	6170	5130	4430
26	5650	5270	5100	4710	4620	4130	3860	4920	6500	6140	5100	4410
27	5670	5260	5090	4770	4610	4110	3850	4940	6880	6100	5060	4390
28	5670	5240	5070	4760	4290	4110	3840	4920	6980	6070	5040	4360
29	5640	5230	5060	4740	4280	4090	3810	4900	6970	6040	5000	4350
30	5720	5210	5050	4730	---	4070	3810	4870	6950	6010	4960	4320
31	5700	---	5030	4720	---	4060	---	4850	---	5980	4940	---
MAX	5820	5680	5260	5020	4710	4260	4050	5040	6980	6930	5950	4900
MIN	5540	5210	5030	4710	4280	4060	3810	3840	4790	5980	4940	4320
(+)	500.34	499.62	499.35	498.87	498.14	497.75	497.30	499.07	502.01	500.72	499.21	498.21
(@)	-160	-490	-180	-310	-440	-220	-250	+1040	+2100	-970	-1040	-620

WTR YR 2000 MAX 6980 MIN 3810 (@) -1540

(+) 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 Sep 1985. Biochemical data: Oct 1969 to Sep 1985.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to May 15, 1972, at unfinished pumphouse at same site and datum. May 16, 1972 to Sep 8, 1975, at site 0.25 mi north and upstream from pumphouse at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 17,539 ft long. The spillway is located on the right bank 5.5 mi upstream from the dam and discharges into the Trinity River through a cut channel 2.0 mi long. Deliberate impoundment began Jul 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 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, Jun 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, 620,700 acre-ft, Jun 30, elevation, 321.47 ft; minimum contents, 504,700 acre-ft, Feb 22, elevation, 317.57 ft.

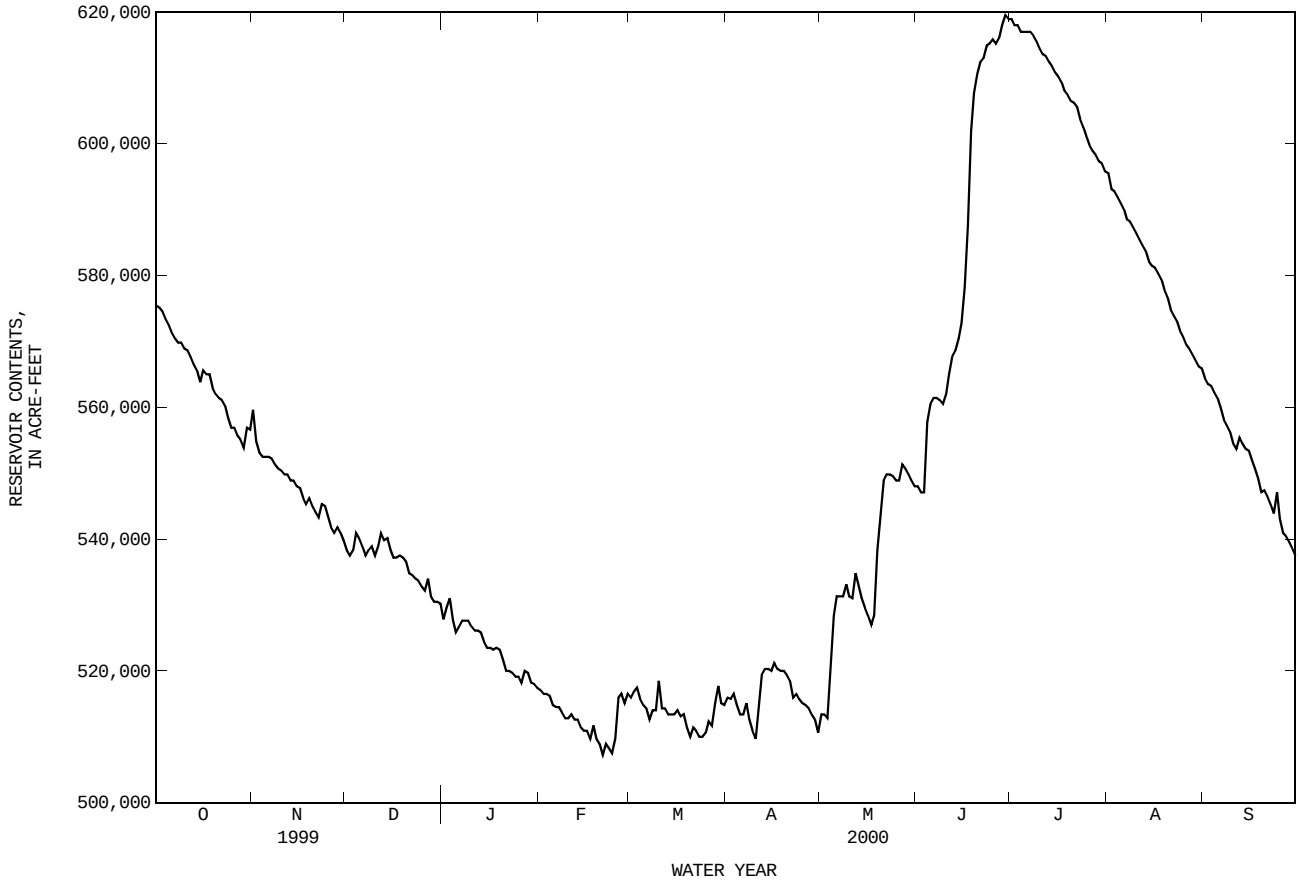
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575400	559600	538300	527800	517100	515900	515900	513400	548000	618900	595500	564400
2	575100	554800	537500	529600	516500	516800	515700	513400	547100	618000	593100	563500
3	574500	553100	538300	531000	516500	517400	516500	512800	547100	618000	592800	563200
4	573400	552500	540900	527600	516200	515700	514800	521400	557800	617000	591900	562300
5	572500	552500	540100	525800	514800	514800	513400	528400	560500	617000	591000	561400
6	571300	552500	538900	526700	514500	514300	513400	531300	561400	617000	590000	559900
7	570400	552200	537500	527600	514500	512600	515100	531300	561400	617000	588500	558100
8	569800	551300	538300	527600	513700	514000	512600	531300	561100	616400	588200	557200
9	569800	550700	538900	527600	512800	514000	510900	533100	560500	615500	587300	556300
10	568900	550400	537500	526700	512800	518500	509700	531300	562000	614500	586400	554500
11	568600	549800	538900	526100	513400	514300	514800	531000	565000	613600	585500	553700
12	567700	549800	540900	526100	512600	514300	519400	534800	567700	613300	584600	555400
13	566500	548900	539800	525800	512600	513400	520300	532800	568600	612400	583700	554500
14	565600	548900	540100	524400	511400	513400	520300	531000	570400	611800	582100	553700
15	563800	548000	538300	523500	510900	513400	520000	529600	572800	610800	581500	553400
16	565600	547700	537200	523500	510900	514000	521200	528400	578200	610200	581200	551900
17	565000	546200	537200	523200	509700	513100	520300	527000	587600	609300	580300	550700
18	565000	545300	537500	523500	511700	513400	520000	528400	601900	608000	579400	549200
19	562900	546200	537200	523200	509700	511400	520000	538300	607700	607400	577900	547100
20	562000	545000	536600	521700	508900	510000	519400	543600	610500	606500	576700	547400
21	561400	544100	534800	520000	507200	511400	518500	548900	612400	606200	574800	546500
22	561100	543300	534500	520000	508900	510900	515900	549800	613000	605600	573900	545300
23	560200	545300	534000	519700	508300	510000	516500	549800	614900	603700	573100	543900
24	558400	545000	533700	519100	507500	510000	515700	549500	615200	602500	571600	547100
25	556900	543300	532800	519100	509700	510600	515100	548900	615800	601000	570700	543000
26	556900	541800	532200	518200	515900	512300	514800	548900	615200	599800	569500	540900
27	555700	540900	534000	520000	516500	511700	514300	551300	616100	598900	568900	540400
28	555100	541800	531300	519700	515100	515100	513400	550700	618000	598300	568000	539500
29	553900	540900	530500	518200	516500	517700	512600	549800	619500	597300	567100	538600
30	556900	539800	530500	518000	---	515100	510600	548900	618900	597000	566200	537500
31	556600	---	530200	517400	---	514800	---	548000	---	595800	565900	---
MAX	575400	559600	540900	531000	517100	518500	521200	551300	619500	618900	595500	564400
MIN	553900	539800	530200	517400	507200	510000	509700	512800	547100	595800	565900	537500
(+)	319.36	318.79	318.46	318.02	317.99	317.93	317.78	319.07	321.41	320.66	319.67	318.71
(@)	-22500	-16800	-9600	-12800	-900	-1700	-4200	+37400	+70900	-23100	-29900	-28400

CAL YR 1999 MAX 670700 MIN 530200 (@) -107300
WTR YR 2000 MAX 619500 MIN 507200 (@) -41600

(+) 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°85′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 Sep 1982, Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1980 to Sep 1982, Oct 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
MAY											
22...	1315	E1.4	367	7.6	23.5	40	7.0	84	3.0	130	13
JUL											
20...	1100	.10	395	7.7	26.0	6.0	3.7	47	1.4	170	7

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
MAY											
22...	48	2.9	18	.7	4.0	120	63	13	.44	7.7	228
JUL											
20...	63	2.8	18	.6	2.9	160	28	16	.37	9.1	250

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
MAY											
22...	234	155	1.20	.059	1.25	.023	.56	.59	E.031	.010	.03
JUL											
20...	237	10	--	<.010	<.050	.025	.38	.40	<.050	<.010	--

DATE	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)	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)
MAY										
22...	9.8	11	<1.0	5	53	<1.0	<1.0	<.80	<1.0	2.3
JUL										
20...	7.0	9.7	<1.0	3	66	<1.0	<1.0	<.80	<1.0	3.6

DATE	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)
MAY										
22...	<10	<1.0	3.0	<.2	<1.0	3.6	E1	<1.0	2.9	<1.0
JUL										
20...	<10	<1.0	23	<.2	1.0	6.7	<2	<1.0	3.6	<1.0

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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-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug 1962 to current year. Prior to Oct 1970, published as "Navarro Mills Reservoir".

GAGE.--Water-stage recorder. Datum of gage is sea level (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.--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 Sep 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 Sep 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 Sep 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. An unknown amount of water is diverted for municipal and industrial uses. Conservation pool storage is 60,900 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	425.3
Crest of spillway	414.0
Lowest gated outlet (invert)	400.0

COOPERATION.--Record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, 168,500 acre-ft, Jul 27, elevation, 439.48 ft; minimum contents, 1,150 acre-ft, Jun 19, elevation, 400.00 ft.

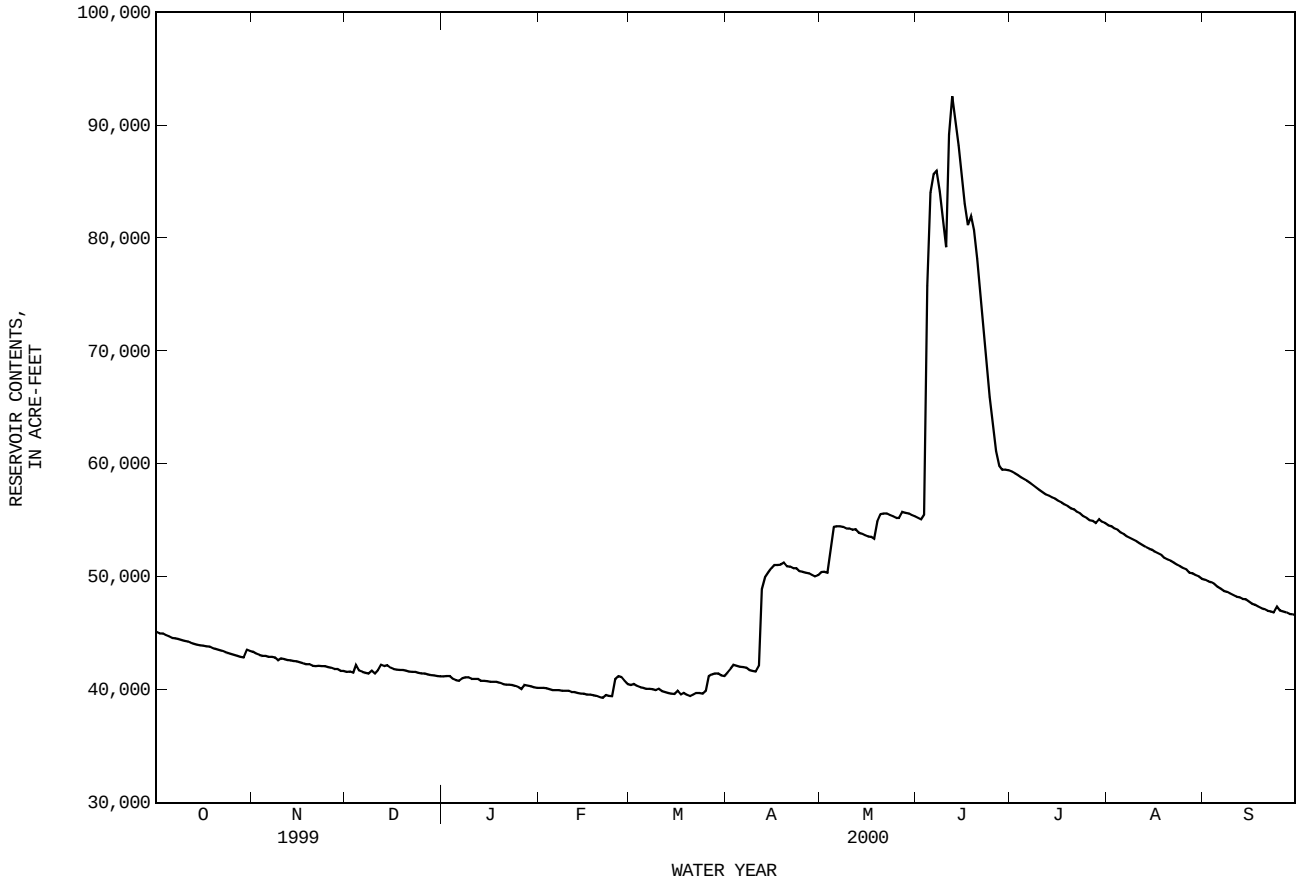
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45110	43370	41560	41180	40160	40420	41520	50410	55200	59310	54560	49740
2	44980	43200	41610	41220	40160	40500	41860	50460	55050	59160	54460	49590
3	44980	43070	41480	41220	40120	40330	42210	50360	55450	59000	54260	49500
4	44850	42980	42210	40970	40040	40200	42120	52490	75760	58800	54160	49360
5	44720	42980	41690	40840	39950	40160	42040	54410	84000	58640	53910	49120
6	44590	42900	41560	40800	39950	40080	41990	54460	85660	58490	53770	48930
7	44540	42900	41480	41010	39950	40080	41950	54460	85930	58290	53570	48740
8	44500	42850	41440	41100	39910	40040	41740	54410	84130	58080	53420	48650
9	44410	42590	41690	41100	39910	39950	41650	54260	81720	57880	53270	48510
10	44320	42770	41440	40970	39910	40080	41610	54260	79160	57670	53130	48370
11	44280	42720	41740	40970	39790	39870	42120	54160	89130	57470	52980	48230
12	44150	42640	42210	40970	39790	39790	48880	54210	92550	57270	52780	48180
13	44060	42590	42080	40800	39700	39700	49930	53910	90520	57170	52640	48040
14	43980	42550	42160	40800	39660	39660	50360	53820	88170	57010	52490	47990
15	43930	42510	41950	40760	39660	39620	50740	53670	85660	56910	52390	47810
16	43890	42420	41820	40710	39580	39910	51030	53570	83020	56710	52200	47620
17	43850	42340	41780	40710	39580	39580	51030	53520	81140	56560	52050	47530
18	43800	42250	41740	40710	39500	39700	51080	53370	81910	56410	51900	47350
19	43670	42250	41740	40630	39460	39540	51230	54900	80690	56260	51660	47210
20	43630	42120	41690	40500	39330	39410	50940	55550	78160	56060	51520	47120
21	43540	42080	41610	40460	39290	39580	50890	55600	75030	55960	51420	46980
22	43460	42120	41560	40460	39540	39700	50740	55600	72000	55750	51230	46940
23	43330	42080	41560	40420	39460	39700	50740	55450	68910	55600	51080	46850
24	43240	42080	41480	40330	39410	39660	50500	55350	65900	55350	50940	47350
25	43150	41990	41440	40200	40970	39910	50460	55200	63360	55200	50740	47030
26	43070	41950	41440	40040	41220	41180	50360	55200	61130	55000	50650	46940
27	42980	41820	41350	40420	41140	41350	50310	55750	59830	54960	50360	46850
28	42900	41820	41310	40370	40800	41440	50170	55650	59470	54760	50310	46710
29	42850	41650	41270	40290	40500	41440	50020	55600	59470	55100	50120	46670
30	43540	41650	41220	40200	---	41270	50120	55450	59420	54860	50020	46580
31	43410	---	41180	40160	---	41220	---	55350	---	54760	49830	---
MAX	45110	43370	42210	41220	41220	41440	51230	55750	92550	59310	54560	49740
MIN	42850	41650	41180	40040	39290	39410	41520	50360	55050	54760	49830	46580
(+)	421.63	421.22	421.11	420.86	420.95	421.12	423.11	424.18	424.98	424.06	423.05	422.34
(@)	-1830	-1760	-470	-1020	+340	+720	+8900	+5230	+4070	-4660	-4930	-3250

CAL YR 1999 MAX 89840 MIN 41180 (@) -19120
WTR YR 2000 MAX 92550 MIN 39290 (@) +1340

(+) 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 Sep 1982, Oct 1999 to current year.
BIOCHEMICAL DATA: Oct 1981 to Aug 1982, Oct 1999 to current year.
PESTICIDE DATA: Aug 2000 to Sep 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 1999 TO SEPTEMBER 2000

315730096412601 - Navarro Mills Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB												
17...	1215	39600	1.00	314	8.1	14.5	.27	9.6	96	K2	K5	120
17...	1221	--	10.0	314	8.1	14.5	--	9.6	96	--	--	--
17...	1228	--	21.0	314	8.1	14.5	--	9.5	95	--	--	120
MAY												
22...	1427	55700	1.00	269	7.5	25.5	.30	7.4	92	110	K12	110
22...	1430	--	10.0	280	7.5	25.0	--	7.0	86	--	--	--
22...	1434	--	20.0	284	7.4	24.5	--	6.7	82	--	--	--
22...	1438	--	25.0	282	7.4	24.5	--	6.6	81	--	--	110
AUG												
02...	1420	54600	1.00	262	8.5	31.5	.76	8.0	111	K1	K1	110
02-02	1420	--	--	--	--	--	--	--	--	--	--	--
02...	1425	--	10.0	262	8.3	30.0	--	6.9	93	--	--	--
02...	1430	--	20.0	271	7.9	29.5	--	4.6	61	--	--	--
02...	1435	--	25.0	271	7.6	29.0	--	3.5	46	--	--	110

315730096412601 - Navarro Mills Lk Site AC

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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												
17...	5	41.4	3.56	17.3	.7	24	3.5	110	33.5	11.3	.4	2.0
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	6	41.8	3.58	17.6	.7	24	3.5	110	33.5	11.4	.4	2.1
MAY												
22...	3	40.8	3.15	14.1	.6	20	3.7	110	28.3	9.2	.4	1.2
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	3	40.7	3.14	14.0	.6	20	3.7	110	28.1	8.9	.4	1.2
AUG												
02...	--	37.8	2.75	9.7	.4	16	4.6	110	17.8	6.2	.3	6.7
02-02	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	38.4	2.72	9.0	.4	15	6.0	110	17.8	6.2	.4	7.0

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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
FEB												
17...	181	--	<.010	<.050	.043	.28	.32	<.050	<.010	<10	<2	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	182	--	<.010	<.050	.036	.30	.34	<.050	<.010	<10	E1	--
MAY												
22...	169	--	<.010	.276	<.020	--	.23	<.050	<.010	<10	<2	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	169	.247	.010	.257	.039	.36	.40	<.050	<.010	<10	<2	--
AUG												
02...	151	--	<.010	<.050	<.020	--	.24	<.050	<.010	<10	<2	--
02-02	--	--	--	--	--	--	--	--	--	--	--	<.003
02...	--	--	<.010	<.050	<.020	--	.25	<.050	<.010	<10	8	--
02...	--	--	<.010	<.050	<.020	--	.26	<.050	<.010	<10	25	--
02...	152	--	<.010	<.050	<.020	--	.28	<.050	<.010	<10	17	--

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

315730096412601 - Navarro Mills Lk Site AC

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)
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02-02	<.002	.011	<.002	.512	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

315730096412601 - Navarro Mills Lk Site AC

DATE	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)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02-02	<.002	E.23	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

315730096412601 - Navarro Mills Lk Site AC

DATE	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											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
02-02	.302	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	<.018
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

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											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
02-02	<.007	<.004	<.013	<.003	.005	<.010	<.007	<.013	<.002	<.001	<.002
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

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							
17...	1241	1.00	313	8.1	14.5	9.7	97
17...	1243	10.0	313	8.1	14.5	9.5	95
17...	1246	17.0	315	8.0	14.0	8.9	88
MAY							
22...	1446	1.00	272	7.6	25.0	7.0	86
22...	1449	10.0	297	7.5	24.0	7.2	87
22...	1452	21.0	282	7.4	23.5	6.1	73
AUG							
02...	1455	1.00	265	8.5	32.0	8.9	124
02...	1457	10.0	268	8.3	29.0	7.1	94
02...	1500	15.0	271	7.7	29.0	3.7	49

315710096431301 - Navarro Mills Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB												
17...	1306	1.00	314	8.2	16.0	.24	9.7	100	K4	K1	120	5
17...	1311	10.0	314	8.2	15.5	--	9.7	99	--	--	--	--
17...	1315	18.0	315	8.2	15.0	--	9.4	95	--	--	120	3
MAY												
22...	1507	1.00	270	8.0	25.5	.52	8.4	104	K6	K3	110	2
22...	1512	10.0	314	7.7	23.5	--	6.8	81	--	--	--	--
22...	1517	24.0	272	7.5	23.0	--	5.4	64	--	--	110	1
AUG												
02...	1525	1.00	259	8.7	31.5	.73	9.7	134	K2	K1	100	--
02...	1531	10.0	268	8.2	29.0	--	6.4	85	--	--	--	--
02...	1536	22.0	274	7.3	29.0	--	.8	11	--	--	110	--

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

315710096431301 - Navarro Mills Lk Site BC

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)	ALKA- LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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											
17...	41.6	3.58	17.4	.7	24	3.4	110	33.6	11.6	.4	1.8
17...	--	--	--	--	--	--	--	--	--	--	--
17...	41.5	3.57	17.5	.7	24	3.6	120	33.6	11.5	.4	1.9
MAY											
22...	40.6	3.14	14.2	.6	21	3.5	110	28.3	9.2	.4	1.0
22...	--	--	--	--	--	--	--	--	--	--	--
22...	40.6	3.12	14.0	.6	20	3.7	110	28.0	8.8	.4	1.7
AUG											
02...	36.7	2.71	9.0	.4	15	5.0	110	17.8	6.2	.4	6.6
02...	--	--	--	--	--	--	--	--	--	--	--
02...	38.6	2.71	8.9	.4	15	2.2	110	17.8	6.4	.3	7.4

315710096431301 - Navarro Mills Lk Site BC

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)	PHOS- PHORUS ORTHO, 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											
17...	182	<.010	<.050	.021	.28	.30	<.050	<.010	--	<10	<2
17...	--	--	--	--	--	--	--	--	--	--	--
17...	183	<.010	<.050	.032	.29	.32	<.050	.010	.031	<10	<2
MAY											
22...	168	<.010	.229	<.020	--	.35	<.050	<.010	--	<10	<2
22...	--	--	--	--	--	--	--	--	--	--	--
22...	169	<.010	.219	.073	.33	.40	<.050	<.010	--	<10	3
AUG											
02...	148	<.010	<.050	<.020	--	.24	<.050	<.010	--	<10	E1
02...	--	<.010	<.050	<.020	--	.25	<.050	<.010	--	<10	10
02...	152	<.010	<.050	.029	.26	.29	<.050	<.010	--	<10	106

315642096444401 - Navarro Mills 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)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB											
17...	1348	1.00	316	8.2	16.5	--	9.5	99	K10	80	120
17...	1354	12.0	316	8.3	16.5	--	9.4	98	--	--	120
MAY											
22...	1538	1.00	267	8.2	26.0	.34	9.0	113	190	K1	110
22...	1543	10.0	299	7.8	23.5	--	7.0	84	--	--	--
22...	1548	15.0	304	7.7	23.5	--	6.2	74	--	--	110
AUG											
02...	1551	1.00	256	8.7	30.5	.46	10.1	137	K1	K2	100
02...	1557	14.0	268	8.2	29.5	--	6.2	83	--	--	110

315642096444401 - Navarro Mills Lk Site CC

DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
17...	5	42.0	3.60	17.5	.7	23	3.5	120	33.4	11.3	.4
17...	7	42.0	3.60	17.6	.7	24	3.5	110	33.7	11.6	.4
MAY											
22...	3	40.2	3.14	14.2	.6	21	3.7	110	28.2	9.1	.4
22...	--	--	--	--	--	--	--	--	--	--	--
22...	1	40.7	3.12	14.0	.6	20	3.7	110	28.2	8.8	.4
AUG											
02...	--	35.8	2.72	9.0	.4	16	4.0	100	18.0	6.3	.4
02...	--	37.9	2.78	9.7	.4	15	10.1	110	17.9	6.2	.3

315642096444401 - Navarro Mills Lk Site CC

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB											
17...	1.7	182	<.010	<.050	.022	.30	.32	<.050	<.010	<10	<2
17...	1.8	182	<.010	<.050	<.020	--	.31	<.050	<.010	<10	<2
MAY											
22...	1.0	167	<.010	.179	<.020	--	.32	<.050	<.010	<10	<2
22...	--	--	--	--	--	--	--	--	--	--	--
22...	1.4	169	<.010	.215	<.020	--	.38	<.050	<.010	<10	<2
AUG											
02...	6.6	145	<.010	<.050	<.020	--	.27	<.050	<.010	<10	<2
02...	6.7	156	<.010	<.050	<.020	--	.24	<.050	<.010	<10	<2

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)
FEB								
17...	1428	1.00	316	8.3	17.5	9.4	100	--
17...	1432	6.00	316	8.3	17.5	9.5	101	--
MAY								
22...	1709	1.00	272	8.3	29.5	7.8	104	.226
22...	1712	2.00	271	8.2	29.5	7.8	104	--
AUG								
02...	1627	1.00	267	8.6	32.5	8.9	125	--
02...	1631	3.00	268	8.6	32.5	8.8	124	--

315602096470001 - Navarro Mills Lk Site DC

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,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB								
17...	<.010	<.050	<.020	.30	<.050	<.010	<10	<2
17...	--	--	--	--	--	--	--	--
MAY								
22...	.011	.237	<.020	.37	<.050	<.010	<10	E2
22...	--	--	--	--	--	--	--	--
AUG								
02...	<.010	<.050	<.020	.26	<.050	<.010	<10	<2
02...	--	--	--	--	--	--	--	--

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, NITRITE DIS-SOLVED (MG/L AS N) (00613)
MAY								
22...	1639	1.00	264	8.4	29.5	8.6	115	<.010
22...	1643	4.00	264	8.3	29.5	8.6	115	--
AUG								
02...	1702	1.00	263	8.5	34.0	8.6	124	<.010
02...	1707	3.00	263	8.4	32.5	7.9	111	--

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

315706096463201 - Navarro Mills Lk Site EC

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAY							
22...	.158	<.020	.35	<.050	<.010	--	--
22...	--	--	--	--	--	--	--
AUG							
02...	<.050	<.020	.26	<.050	<.010	<10	<2
02...	--	--	--	--	--	--	--

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site AC (315730096412601)

Phytoplankton Analyses October 1999 to September 2000

Date	02/17/00
Time	1215
TOTAL CELLS/mL	4,072
NUMBER OF SPECIES	24
DEPTH COLLECTED (ft.)	0.45

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella bodanica	13
Cyclotella sp. 1	260
Melosira italica	2,220
Order Pennales	
Cymbella sp.	13
Fragilaria capucina v. *vaucheriae*	65
Navicula cryptocephala	13
Nitzschia acicularis	65
Nitzschia palea	78
Synedra tenera	52
Synedra ulna v. *ulna*	22
CHLOROPHYTA	
Ankistrodesmus convolutus	39
Ankistrodesmus falcatus	78
Dictyosphaerium pulchellum	52
Kirchneriella subsolitaria	52
Monoraphidium capricornutum	104
Non-motile Chlorococcales-spherical	26
Oocystis lacustris	52
CYANOPHYTA	
Merismopedia tenuissima	417
Non-motile blue-greens (>1 um)	78
Oscillatoria limnetica	260
CHRYSOPHYTA	
Erkenia subaequiciliata	13
PYRRHOPHYTA	
Gymnodinium sp. 1	22
CRYPTOPHYTA	
Cryptomonas erosa	39
Rhodomonas minuta v. *nannoplanctica*	39

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site CC (315642096444401)

Phytoplankton Analyses October 1999 to September 2000

Date	02/17/00
Time	1348
TOTAL CELLS/mL	3,086
NUMBER OF SPECIES	20
DEPTH COLLECTED (ft.)	0.25

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	417
Melosira italica	865
Stephanodiscus medius	52
Order Pennales	
Amphipleura pellucida	13
Navicula sp.	13
Nitzschia acicularis	65
Nitzschia palea	78
CHLOROPHYTA	
Ankistrodesmus convolutus	117
Ankistrodesmus falcatus	91
Chlamydomonas sp.	26
Monoraphidium capricornutum	104
Non-motile Chlorococcales-spherical	26
Oocystis parva	39
Tetraedron muticum	13
CYANOPHYTA	
Anabaena flos-aquae	438
Aphanocapsa elachista	156
Merismopedia tenuissima	208
Non-motile blue-greens (>1 um)	52
CRYPTOPHYTA	
Cryptomonas erosa	26
Rhodomonas minuta v. *nannoplanctica*	287

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site AC (315730096412601)

Phytoplankton Analyses October 1999 to September 2000

Date	05/22/00
Time	1427
TOTAL CELLS/mL	22,397
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	0.50

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	1,632
Melosira granulata	625
Melosira italica	69
Stephanodiscus hantzschii 8-11 um	35
Stephanodiscus medius	313
Stephanodiscus minutulus	347
Stephanodiscus niagarae	35
Order Pennales	
Achnanthes minutissima	35
Cymbella silesiaca	35
Fragilaria capucina v. *vaucheriae*	104
Navicula cf. *lacunolaciniata*	695
Navicula salinarum	9
Nitzschia acicularis	139
Nitzschia palea	243
CHLOROPHYTA	
Ankistrodesmus convolutus	35
Ankistrodesmus falcatus	208
Chlamydomonas globosa	243
Closterium moniliferum	35
Elakatothrix gelatinosa	69
Monoraphidium capricornutum	35
Non-motile Chlorococcales-spherical	104
Oocystis parva	556
Scenedesmus bijuga	69
CYANOPHYTA	
Aphanocapsa delicatissima	1,042
Merismopedia tenuissima	3,704
Non-motile blue-greens (>1 um)	104
Oscillatoria limnetica	695
CHRYSOPHYTA	
Mallomonas sp.	104
PYRRHOPHYTA	
Gymnodinium sp. 1	35
Gymnodinium sp. 3	35
CRYPTOPHYTA	
Cryptomonas erosa	174
Rhodomonas minuta v. *nannoplanctica*	10,834

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site CC (315642096444401)

Phytoplankton Analyses October 1999 to September 2000

Date	05/22/00
Time	1538
TOTAL CELLS/mL	6,388
NUMBER OF SPECIES	25
DEPTH COLLECTED (ft.)	0.55

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella meneghiniana	17
Melosira italica	122
Stephanodiscus hantzschii 8-11um	17
Stephanodiscus medius	87
Stephanodiscus minutulus	226
CHLOROPHYTA	
Ankistrodesmus falcatus	17
Chlamydomonas globosa	156
Non-motile Chlorococcales-spherical	35
Oocystis parva	260
Quadrigula lacustris	18
Scenedesmus intermedius	69
Scenedesmus sp.	278
Schroederia judayi	35
Tetrastrum glabrum	69
CYANOPHYTA	
Aphanocapsa delicatissima	521
Aphanocapsa elachista	1,042
Merismopedia tenuissima	833
CHRYSOPHYTA	
Mallomonas sp.	35
EUGLENOPHYTA	
Phacus sp.	35
PYRRHOPHYTA	
Gymnodinium sp. 2	17
Gymnodinium sp. 3	17
Peridinium umbonatum	17
CRYPTOPHYTA	
Cryptomonas erosa	330
Rhodomonas minuta v. *nannoplanctica*	2,031
Misc. micros, 1 flagellum	104

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site AC (315730096412601)

Phytoplankton Analyses October 1999 to September 2000

Date	08/02/00
Time	1420
TOTAL CELLS/mL	109,218
NUMBER OF SPECIES	37
DEPTH COLLECTED (ft.)	1.25

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella meneghiniana	9
Stephanodiscus hantzschii 8-11 um	4
Stephanodiscus minutulus	599
Order Pennales	
Synedra tenera	78
Synedra ulna	26
CHLOROPHYTA	
Actinastrum hantzschii	104
Ankistrodesmus convolutus	156
Ankistrodesmus falcatus	287
Chlamydomonas globosa	78
Chlamydomonas incerta	4
Chlamydomonas sp.	78
Chlorogonium sp.	52
Closterium moniliferum	4
Dictyosphaerium pulchellum	287
Monoraphidium capricornutum	78
Scenedesmus bijuga	52
Scenedesmus quadricauda	104
Schroederia setigera	26
Treubaria setigerum	52
CYANOPHYTA	
Anabaena circinalis	263
Anabaena flos-aquae	44
Aphanizomenon akinete	105
Aphanizomenon gracile	417
Aphanocapsa delicatissima	19,272
Dactylococcopsis irregularis	964
Lyngbya contorta	521
Lyngbya lagerheimii f. *minor*	11,668
Lyngbya limnetica	8,673
Merismopedia tenuissima	7,969
Microcystis aeruginosa-single cells	70
Non-motile blue-greens (>1.1 um)	4,167
Oscillatoria amphibia	52,504
PYRRHOPHYTA	
Peridinium umbonatum	4
CRYPTOPHYTA	
Cryptomonas erosa	313
Cryptomonas rostratiformis	4
Rhodomonas minuta v. *nannoplanctica*	78
Misc. microflagellate	104

08063050 NAVARRO MILLS LAKE NEAR DAWSON, TX--Continued

Navarro Mills Lake Site CC (315642096444401)

Phytoplankton Analyses October 1999 to September 2000

Date	08/02/00
Time	1551
TOTAL CELLS/mL	145,972
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	0.75

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus minutulus	573
Order Pennales	
Achnanthes minutissima	52
Synedra tenera	9
CHLOROPHYTA	
Ankistrodesmus convolutus	260
Ankistrodesmus falcatus	417
Dictyosphaerium pulchellum	35
Gonium sp.	105
Monoraphidium capricornutum	104
Non-motile Chlorococcales-spherical	208
Oocystis parva	208
Pandorina morum	140
Scenedesmus bijuga	417
CYANOPHYTA	
Anabaena circinalis	70
Anabaena flos-aquae	3,125
Anabaenopsis circularis	795
Aphanizomenon gracile	1,250
Aphanocapsa delicatissima	31,502
Cylindrospermopsis philippinensis	729
Cylindrospermopsis raciborskii	2,431
Dactylococcopsis irregularis	1,667
Lyngbya lagerheimii f. *minor*	7,667
Lyngbya limnetica	19,533
Merismopedia tenuissima	5,417
Oscillatoria amphibia	63,025
EUGLENOPHYTA	
Euglena sp.	104
PYRRHOPHYTA	
Glenodinium quadridens	104
Gymnodinium sp. 1	52
Peridinium cinctum	9
Peridinium umbonatum	52
CRYPTOPHYTA	
Cryptomonas erosa	677
Rhodomonas minuta v. *nannoplanctica*	156
Misc. microflagellate	5,079

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.
Water-quality records.--Chemical data: Oct 1980 to Sep 1982. Biochemical data: Oct 1980 to Sep 1982.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 367.52 ft above sea level. Nov 21, 1960, to Sep 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 by Navarro Mills Lake (station 08063050, conservation pool storage 60,900 acre-ft), 1.7 mi upstream. Flow may be slightly affected at times by discharge from the flood-detention pool of one floodwater-retarding structure with a conservation capacity of 297 acre-ft. This structure controls runoff from a 1.28 mi^2 area below Navarro Mills Lake and above this station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1961-63).--Maximum discharge, 25,500 ft^3/s Jul 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 Jun 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.91	.84	.13	.56	.00	.00	.87	.76	18	.34	.27
2	.51	.84	.48	.12	.49	.00	.00	.88	.75	17	.34	.28
3	.50	.90	.28	.11	.41	.00	.20	.77	.89	18	.34	.26
4	.49	.93	.28	.10	.35	.00	.04	112	829	18	.34	.30
5	.52	.80	.29	.22	.28	.00	.00	67	86	17	.34	.27
6	.52	.74	.28	.22	.30	.00	.00	2.2	11	16	.34	.27
7	.55	.70	.30	.24	.34	.00	.00	1.3	391	15	.34	.29
8	.58	.77	.27	.21	.31	.00	.00	1.1	1250	15	.34	.32
9	.56	.99	.25	.10	.29	.00	.00	.89	1440	15	.34	.31
10	.54	.96	.25	.10	.31	.00	.00	.78	1410	7.6	.34	.29
11	.59	1.1	.38	.11	.25	.00	.00	1.1	2150	1.5	.33	.27
12	.52	1.3	.55	.15	.25	.00	125	.96	1640	1.5	.33	.25
13	.52	1.5	.23	.11	.26	.00	3.5	.77	1510	1.5	.31	.26
14	.54	1.3	.22	.06	.28	.00	1.3	.67	1470	.99	.32	.26
15	.53	1.6	.37	.09	.28	.00	.95	.63	1430	.46	.31	.24
16	.55	1.7	.30	.24	.31	.00	.84	.70	1400	.34	.30	.24
17	.68	1.6	.17	.23	.31	.02	.78	.87	1470	.34	.31	.23
18	.73	1.5	.14	.18	.29	.02	.73	.83	1230	.34	.31	.23
19	.77	1.4	.13	.13	.23	.04	.73	3.1	778	.34	.30	.23
20	.67	1.4	.13	.11	.26	.07	.72	28	1580	.34	.30	.26
21	.63	1.4	.15	.11	.28	.04	.66	1.9	1540	.34	.31	.26
22	.63	2.0	.15	.21	.32	.01	.69	1.1	1500	.34	.31	.28
23	.61	2.0	.13	.18	.46	.00	.70	.90	1460	.34	.31	.22
24	.56	1.1	.11	.14	.32	.00	.64	.80	1430	.34	.31	.29
25	.62	1.1	.10	.17	.62	.00	.62	.77	1240	.34	.33	.37
26	.56	1.2	.13	.33	15	8.3	.63	.76	1060	.34	.33	.25
27	.53	1.0	.14	.41	.31	.12	.64	.81	673	.34	.30	.24
28	.55	.83	.11	.45	.05	.10	.63	1.2	176	.34	.31	.23
29	.55	.68	.14	.33	.01	.00	.63	.98	19	.34	.28	.23
30	1.0	.98	.17	.28	---	.00	.68	.87	19	.34	.28	.22
31	1.1	---	.15	.33	---	.00	---	.81	---	.34	.27	---
TOTAL	18.69	35.23	7.62	5.90	23.73	8.72	141.31	236.32	29194.40	167.99	9.86	7.92
MEAN	.60	1.17	.25	.19	.82	.28	4.71	7.62	973	5.42	.32	.26
MAX	1.1	2.0	.84	.45	15	8.3	125	112	2150	18	.34	.37
MIN	.48	.68	.10	.06	.01	.00	.00	.63	.75	.34	.27	.22
AC-FT	37	70	15	12	47	17	280	469	57910	333	20	16

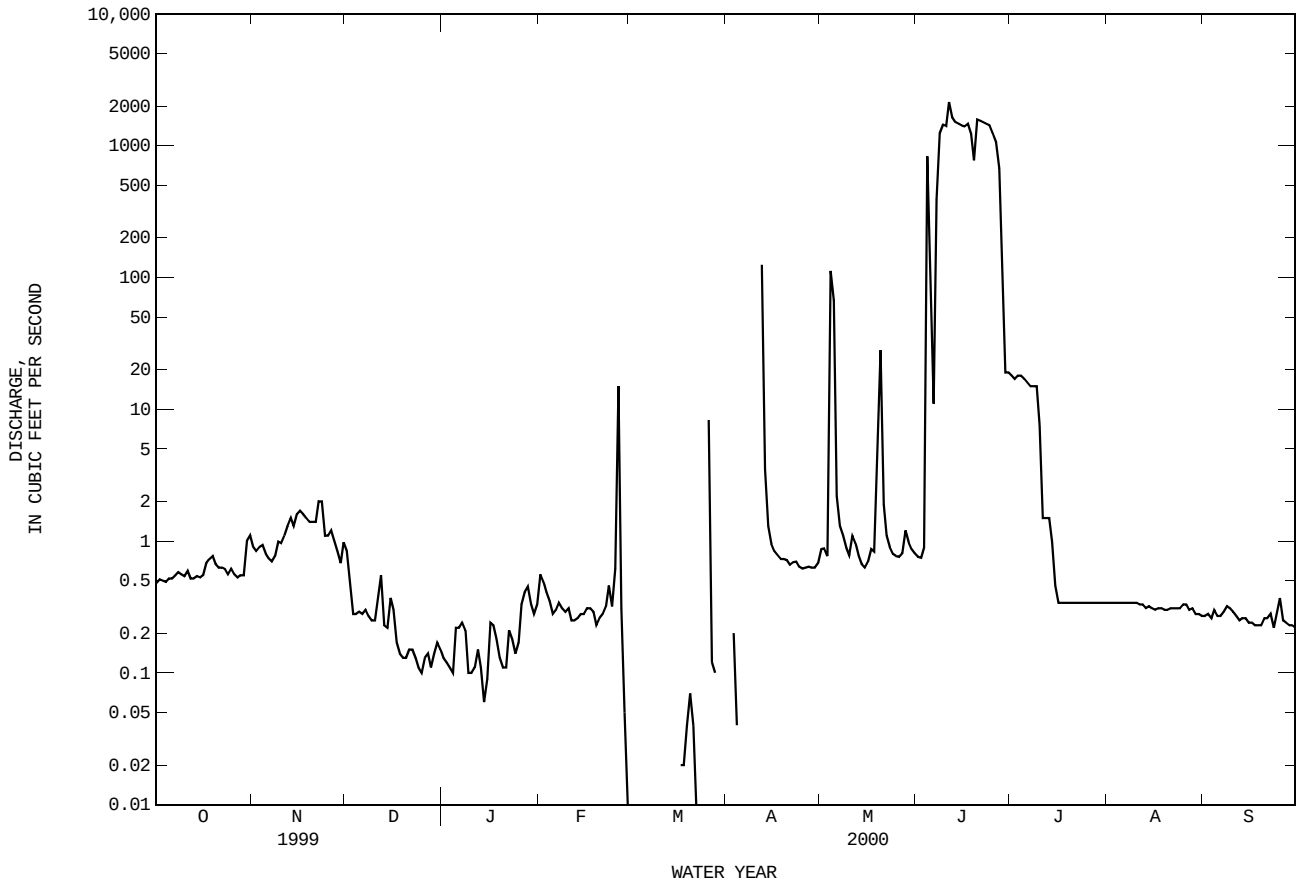
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000z, BY WATER YEAR (WY)

MEAN	48.0	148	156	180	199	204	216	275	345	98.5	27.1	20.3
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	.000	.000	.000	.058	.066	.22	.023	.019	.000	.000	.068	.005
(WY)	1964	1964	1964	1964	1964	1971	1964	1964	1964	1970	1981	1997

08063100 RICHLAND CREEK NEAR DAWSON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000z	
ANNUAL TOTAL	24918.01		29857.69			
ANNUAL MEAN	68.3		81.6		159	
HIGHEST ANNUAL MEAN					561	1968
LOWEST ANNUAL MEAN					.20	1964
HIGHEST DAILY MEAN	1500	Feb 6	2150	Jun 11	2620	Aug 4 1995
LOWEST DAILY MEAN	.10	Dec 25	.00	Mar 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.12	Dec 23	.00	Mar 1	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW			3110	Jun 11	3850	Nov 24 1974
INSTANTANEOUS PEAK STAGE			21.10	Jun 11	22.85	Nov 24 1974
ANNUAL RUNOFF (AC-FT)	49420		59220		115300	
10 PERCENT EXCEEDS	61		15		674	
50 PERCENT EXCEEDS	1.8		.34		1.8	
90 PERCENT EXCEEDS	.25		.04		.03	

z Period of regulated streamflow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1980 to Sep 1982, Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1980 to Sep 1982, Oct 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
FEB											
17...	1215	.28	908	7.6	18.5	14	6.0	65	1.9	290	57
MAY											
22...	1600	1.1	335	7.0	25.5	230	4.4	55	1.9	110	10
AUG											
02...	1230	.33	953	7.4	28.0	18	4.3	57	.1	300	46

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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)
FEB											
17...	99	9.2	76	2	2.5	230	120	70	.38	8.5	552
MAY											
22...	39	3.7	19	.8	5.6	100	28	18	.56	9.8	216
AUG											
02...	100	10	90	2	2.3	250	130	87	.60	15	627

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
17...	528	18	--	<.010	<.050	<.020	--	.22	<.050	<.010	--
MAY											
22...	186	51	.089	.013	.102	.062	.73	.80	.098	.068	.21
AUG											
02...	594	20	--	<.010	<.050	.025	.20	.23	<.050	.011	.03

DATE	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)	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)
FEB										
17...	4.7	<1.0	<1.0	E1	103	<1.0	<1.0	<1.0	<1.0	1.2
MAY										
22...	12	14	<1.0	2	54	<1.0	<1.0	<.80	<1.0	1.7
AUG										
02...	3.9	19	<1.0	3	238	<1.0	<1.0	<.80	<1.0	1.6

DATE	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)
FEB										
17...	<10	<1.0	105	<.2	<1.0	3.7	<2	<1.0	<1.0	3.0
MAY										
22...	64	<1.0	41	<.2	<1.0	2.4	<2	<1.0	3.0	<1.0
AUG										
02...	<10	<1.0	81	<.2	2.2	2.3	<2	<1.0	4.9	5.6

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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 on South Prong Creek, approximately 10.0 mi south of Waxahachie, and 22.0 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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a rolled earthfill dam 3200 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. Conservation pool storage is 10,799 acre-ft. Data regarding the dam are 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. There was no known diversion from the lake during the current water year.

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 WATER YEAR 1999.--Maximum contents, 15,380 acre-ft, Apr 3, elevation, 531.96 ft; minimum contents, 11,570 acre-ft, Sep 30, elevation, 528.43 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,790 acre-ft, Jun 11, elevation, 531.29 ft; minimum contents, 10,620 acre-ft, Mar 21, elevation, 526.88 ft.

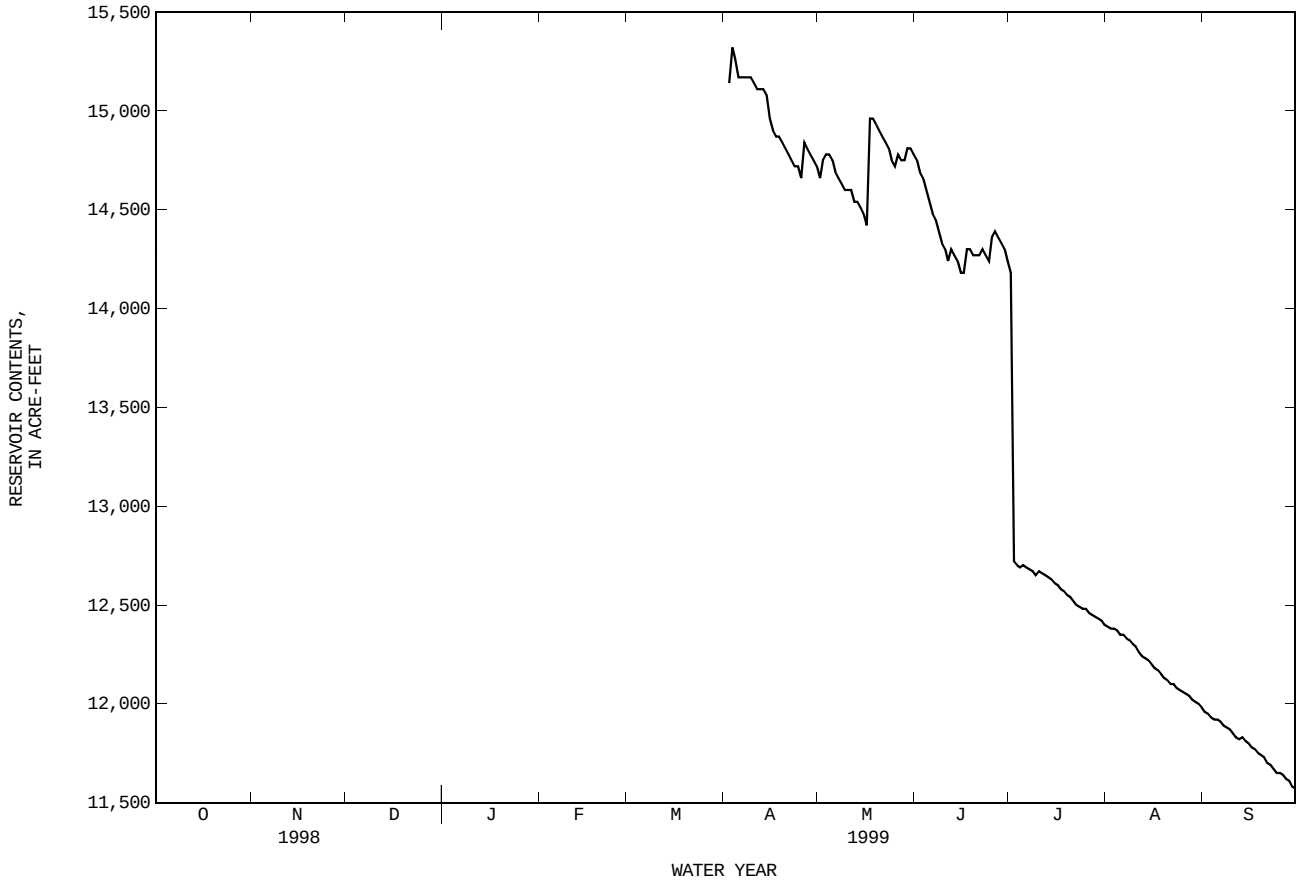
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	14660	14750	14180	12390	11960
2	---	---	---	---	---	---	15140	14750	14690	12720	12380	11950
3	---	---	---	---	---	---	15320	14780	14660	12700	12380	11930
4	---	---	---	---	---	---	15260	14780	14600	12690	12370	11920
5	---	---	---	---	---	---	15170	14750	14540	12700	12350	11920
6	---	---	---	---	---	---	15170	14690	14480	12690	12350	11910
7	---	---	---	---	---	---	15170	14660	14450	12680	12330	11890
8	---	---	---	---	---	---	15170	14630	14390	12670	12320	11880
9	---	---	---	---	---	---	15170	14600	14330	12650	12300	11870
10	---	---	---	---	---	---	15140	14600	14300	12670	12290	11850
11	---	---	---	---	---	---	15110	14600	14240	12660	12260	11830
12	---	---	---	---	---	---	15110	14540	14300	12650	12240	11820
13	---	---	---	---	---	---	15110	14540	14270	12640	12230	11830
14	---	---	---	---	---	---	15080	14510	14240	12630	12220	11810
15	---	---	---	---	---	---	14960	14480	14180	12610	12200	11800
16	---	---	---	---	---	---	14900	14420	14180	12600	12180	11780
17	---	---	---	---	---	---	14870	14960	14300	12580	12170	11770
18	---	---	---	---	---	---	14870	14960	14300	12570	12150	11750
19	---	---	---	---	---	---	14840	14930	14270	12550	12130	11740
20	---	---	---	---	---	---	14810	14900	14270	12540	12120	11730
21	---	---	---	---	---	---	14780	14870	14270	12520	12100	11700
22	---	---	---	---	---	---	14750	14840	14300	12500	12100	11690
23	---	---	---	---	---	---	14720	14810	14270	12490	12080	11670
24	---	---	---	---	---	---	14720	14750	14240	12480	12070	11650
25	---	---	---	---	---	---	14660	14720	14360	12480	12060	11650
26	---	---	---	---	---	---	14840	14780	14390	12460	12050	11640
27	---	---	---	---	---	---	14810	14750	14360	12450	12040	11620
28	---	---	---	---	---	---	14780	14750	14330	12440	12020	11610
29	---	---	---	---	---	---	14750	14810	14300	12430	12010	11580
30	---	---	---	---	---	---	14720	14810	14240	12420	12000	11570
31	---	---	---	---	---	---	---	14780	---	12400	11980	---
MAX	---	---	---	---	---	---	---	14960	14750	14180	12390	11960
MIN	---	---	---	---	---	---	---	14420	14180	12400	11980	11570
(+)							531.74	531.76	531.58	529.81	528.97	528.43
(@)								+60	-540	-1840	-420	-410

WTR YR 1999 MAX 15380 MIN 11570

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

08063600 LAKE WAXAHACHIE NEAR WAXAHACHIE, TX--Continued



08063600 LAKE WAXAHACHIE NEAR WAXAHACHIE, TX--Continued

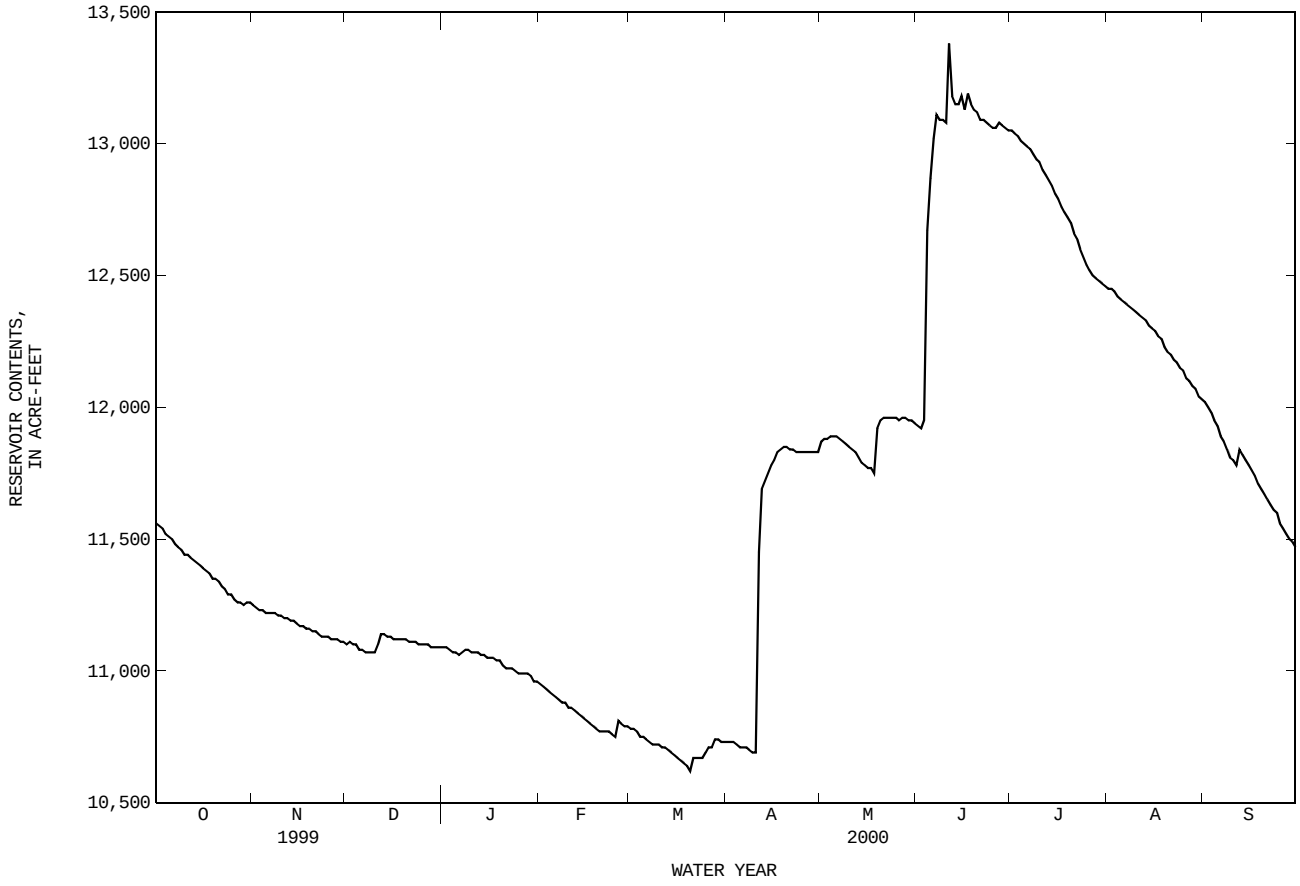
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11560	11250	11100	11090	10950	10780	10730	11870	11930	13050	12450	12020
2	11550	11240	11110	11090	10940	10780	10730	11880	11920	13040	12450	12000
3	11540	11230	11100	11080	10930	10770	10730	11880	11950	13030	12440	11980
4	11520	11230	11100	11070	10920	10750	10720	11890	12670	13010	12420	11950
5	11510	11220	11080	11070	10910	10750	10710	11890	12870	13000	12410	11930
6	11500	11220	11080	11060	10900	10740	10710	11890	13020	12990	12400	11890
7	11480	11220	11070	11070	10890	10730	10710	11880	13110	12980	12390	11870
8	11470	11220	11070	11080	10880	10720	10700	11870	13090	12960	12380	11840
9	11460	11210	11070	11080	10880	10720	10690	11860	13090	12940	12370	11810
10	11440	11210	11070	11070	10860	10720	10690	11850	13080	12930	12360	11800
11	11440	11200	11100	11070	10860	10710	11450	11840	13380	12900	12350	11780
12	11430	11200	11140	11070	10850	10710	11690	11830	13180	12880	12340	11840
13	11420	11190	11140	11060	10840	10700	11720	11810	13150	12860	12330	11820
14	11410	11190	11130	11060	10830	10690	11750	11790	13150	12840	12310	11800
15	11400	11180	11130	11050	10820	10680	11780	11780	13180	12810	12300	11780
16	11390	11170	11120	11050	10810	10670	11800	11770	13130	12790	12290	11760
17	11380	11170	11120	11050	10800	10660	11830	11770	13190	12760	12270	11740
18	11370	11160	11120	11040	10790	10650	11840	11750	13150	12740	12260	11710
19	11350	11160	11120	11040	10780	10640	11850	11920	13130	12720	12230	11690
20	11350	11150	11120	11020	10770	10620	11850	11950	13120	12700	12210	11670
21	11340	11150	11110	11010	10770	10670	11840	11960	13090	12660	12200	11650
22	11320	11140	11110	11010	10770	10670	11840	11960	13090	12640	12180	11630
23	11310	11130	11110	11010	10770	10670	11830	11960	13080	12600	12170	11610
24	11290	11130	11100	11000	10760	10670	11830	11960	13070	12570	12150	11600
25	11290	11130	11100	10990	10750	10690	11830	11960	13060	12540	12140	11560
26	11270	11120	11100	10990	10810	10710	11830	11950	13060	12520	12110	11540
27	11260	11120	11100	10990	10800	10710	11830	11960	13080	12500	12100	11520
28	11260	11120	11090	10990	10790	10740	11830	11960	13070	12490	12080	11500
29	11250	11110	11090	10980	10790	10740	11830	11950	13060	12480	12070	11490
30	11260	11110	11090	10960	---	10730	11830	11950	13050	12470	12040	11470
31	11260	---	11090	10960	---	10730	---	11940	---	12460	12030	---
MAX	11560	11250	11140	11090	10950	10780	11850	11960	13380	13050	12450	12020
MIN	11250	11110	11070	10960	10750	10620	10690	11750	11920	12460	12030	11470
(+)	528.02	527.74	527.70	527.47	527.16	527.05	528.78	528.92	530.55	529.93	529.06	528.29
(@)	-310	-150	-20	-130	-170	-60	+1100	+110	+1110	-590	-430	-560

WTR YR 2000 MAX 13380 MIN 10620 (@) -100

(+) 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 Jun 1987, and Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1980 to Aug 1982, Oct 1985 to Jun 1987, and Oct 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
FEB											
15...	1045	.52	1000	8.1	11.5	3.5	9.4	88	1.2	200	27
MAY											
16...	1145	20	798	7.6	21.5	27	6.3	73	--	220	10
JUL											
06...	1438	97	450	8.0	27.0	6.0	7.0	91	1.1	110	--
AUG											
10...	0730	7.7	596	8.1	26.6	1.9	5.6	70	.2	170	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
15...	76	3.2	120	4	12	180	200	63	.64	2.2	639
MAY											
16...	83	2.6	79	2	8.9	210	120	41	.55	8.4	501
JUL											
06...	39	2.2	18	.8	4.6	120	26	11	.29	4.5	185
AUG											
10...	63	2.1	53	2	8.6	170	56	38	.39	7.6	362

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
15...	612	<1	7.26	.048	7.30	.038	.61	.64	.053	.031	.10
MAY											
16...	486	56	4.07	.013	4.08	.038	.52	.56	.096	.073	.22
JUL											
06...	178	21	--	<.010	<.050	<.020	--	.35	<.050	<.010	--
AUG											
10...	342	18	--	<.010	3.20	.027	.44	.47	.052	.035	.11

DATE	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)	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)
FEB										
15...	4.9	8.6	<1.0	2	69	<1.0	<1.0	<1.0	<1.0	2.6
MAY										
16...	5.8	7.9	<1.0	E2	78	<1.0	<1.0	<.80	1.1	1.7
JUL										
06...	6.6	13	<1.0	6	54	<1.0	<1.0	<.80	<1.0	1.4
AUG										
10...	5.0	1.1	<1.0	2	58	<1.0	<1.0	<.80	<1.0	1.6

08063685 WAXAHACHIE CREEK NEAR WAXAHACHIE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)
FEB										
15...	<10	<1.0	60	<.2	20	5.3	--	<1.0	11	<1.0
MAY										
16...	<10	<1.0	40	<.2	26	5.1	E2	<1.0	6.3	<1.0
JUL										
06...	<10	<1.0	1.4	<.2	1.7	4.2	<2	<1.0	13	<1.0
AUG										
10...	28	<1.0	12	<.2	6.3	4.1	<2	<1.0	3.5	<1.0

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 current year. Prior to Oct 1970, published as "Bardwell Reservoir".

GAGE.--Water-stage recorder. Datum of gage is sea level (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.--The lake is formed by a rolled earthfill dam 15,400 ft long, including a 350-foot 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-foot-diameter concrete conduit with two 5.0- by 10.0-foot sluice gates. Lake was built for flood control and water conservation. Capacity table is based on a 1999 Texas Water Development Board survey. Runoff from 81.4 mi above Bardwell Lake is modified by Lake Waxahachie, with a capacity of 13,500 acre-ft at spillway elevation. 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 53,580 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	421.4
Lowest gated outlet (invert)	391.0

COOPERATION.--Records of elevation and contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey.

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, 174,700 acre-ft, Aug 10, elevation, 444.71 ft; minimum contents, 7,310 acre-ft, Aug 10, elevation, 401.05 ft.

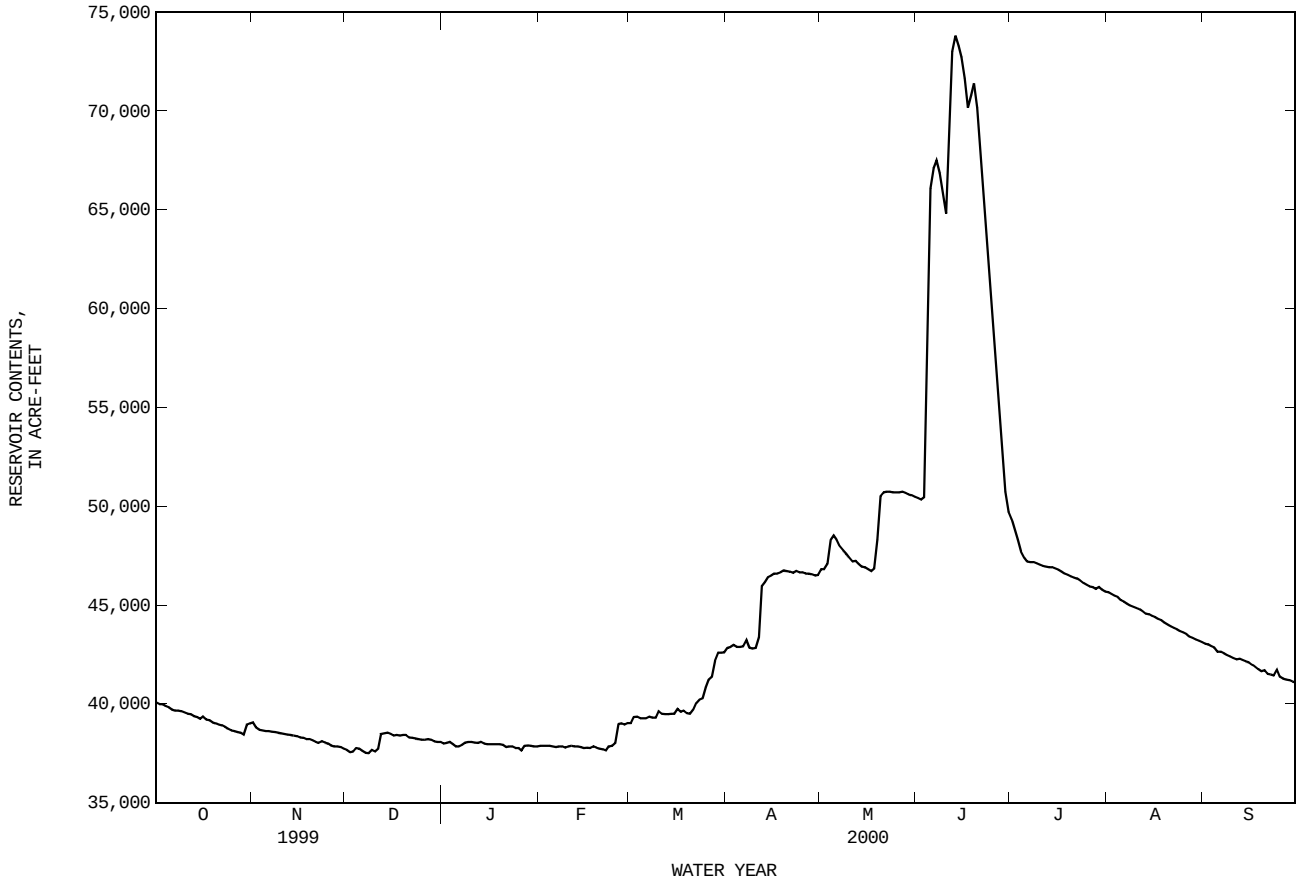
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40060	39060	37670	37990	37870	39030	42820	46810	50400	49330	45650	43030
2	39970	38800	37550	38020	37870	39320	42880	46810	50320	48830	45560	43000
3	39970	38680	37580	38070	37870	39360	42970	47070	50440	48310	45460	42910
4	39880	38650	37760	37960	37870	39270	42880	48270	60190	47700	45400	42850
5	39830	38620	37730	37840	37840	39270	42880	48520	66080	47400	45250	42640
6	39710	38620	37610	37840	37810	39270	42910	48310	67090	47200	45150	42640
7	39650	38600	37520	37930	37840	39360	43220	47960	67480	47170	45060	42550
8	39650	38570	37500	38040	37840	39300	42850	47760	66840	47170	44970	42460
9	39620	38540	37670	38070	37780	39300	42790	47600	65830	47100	44910	42400
10	39560	38510	37580	38070	37840	39620	42820	47400	64790	47040	44840	42310
11	39500	38480	37730	38040	37870	39500	43370	47200	68030	46970	44780	42250
12	39470	38450	38480	38020	37840	39470	45930	47230	73010	46940	44690	42280
13	39380	38420	38510	38070	37840	39470	46150	47070	73800	46910	44570	42220
14	39320	38390	38540	37990	37810	39500	46400	46940	73280	46910	44540	42160
15	39240	38360	38480	37960	37760	39500	46500	46910	72700	46840	44440	42100
16	39360	38300	38390	37960	37780	39740	46590	46810	71650	46780	44380	41980
17	39210	38280	38420	37960	37760	39590	46590	46720	70160	46680	44290	41880
18	39180	38220	38390	37960	37840	39650	46650	46840	70770	46590	44230	41760
19	39060	38220	38420	37960	37780	39530	46750	48310	71380	46530	44100	41640
20	39000	38160	38420	37930	37730	39500	46720	50510	70160	46430	44010	41700
21	38940	38070	38300	37810	37700	39710	46680	50700	68030	46370	43920	41520
22	38920	38020	38280	37840	37640	40030	46620	50740	65870	46340	43830	41490
23	38830	38100	38250	37840	37840	40210	46720	50740	63470	46240	43770	41430
24	38740	38040	38220	37760	37870	40270	46650	50700	61000	46120	43680	41730
25	38650	37990	38190	37760	38020	40840	46650	50700	58560	46020	43610	41370
26	38620	37900	38190	37640	38970	41220	46590	50700	56210	45930	43520	41280
27	38570	37840	38220	37870	39000	41370	46590	50740	54320	45900	43400	41220
28	38540	37840	38190	37900	38940	42190	46560	50660	52720	45810	43340	41190
29	38450	37810	38100	37870	39030	42580	46500	50590	50740	45900	43250	41130
30	38940	37730	38070	37840	---	42580	46530	50550	49730	45780	43190	41070
31	39000	---	38070	37840	---	42610	---	50470	---	45680	43130	---
MAX	40060	39060	38540	38070	39030	42610	46750	50740	73800	49330	45650	43030
MIN	38450	37730	37500	37640	37640	39030	42790	46720	49730	45680	43130	41070
(+)	418.53	418.10	418.22	418.14	418.54	419.75	421.02	422.10	421.90	420.74	419.92	419.23
(@)	-1150	-1270	+340	-230	+1190	+3580	+3920	+3940	-740	-4050	-2550	-2060

CAL YR 1999 MAX 63700 MIN 37500 (@) -18450
WTR YR 2000 MAX 73800 MIN 37500 (@) -80

(+) 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: Jul 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 1999 TO SEPTEMBER 2000

321506096382601 - Bardwell Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB												
15...	1300	37700	1.00	330	8.4	12.5	.64	10.8	103	K3	K1	98
15...	1306	--	10.0	330	8.4	12.5	--	10.8	103	--	--	--
15...	1311	--	20.0	330	8.4	12.0	--	10.8	102	--	--	--
15...	1316	--	34.0	322	8.4	12.5	--	10.4	99	--	--	99
MAY												
16...	1121	46900	1.00	350	8.2	23.5	.37	7.4	89	K1	K1	110
16...	1124	--	10.0	351	8.2	23.5	--	7.4	89	--	--	--
16...	1128	--	20.0	355	8.2	23.5	--	7.2	86	--	--	--
16...	1132	--	30.0	356	8.0	23.5	--	6.8	81	--	--	--
16...	1138	--	36.0	316	7.8	23.5	--	4.9	59	--	--	110
JUL												
06...	1257	47400	1.00	306	8.6	29.0	.55	8.9	118	1	1	110
06-06	1257	--	--	--	--	--	--	--	--	--	--	--
06...	1303	--	10.0	308	8.2	27.5	--	6.9	89	--	--	--
06...	1310	--	20.0	309	7.9	27.5	--	5.4	70	--	--	--
06...	1316	--	30.0	315	7.3	26.5	--	.2	3	--	--	--
06...	1323	--	36.0	232	7.3	26.0	--	.3	4	--	--	110

321506096382601 - Bardwell Lk Site AC

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD (MG/L) CAC03 (39036)	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												
15...	--	35.2	2.54	28.8	1	37	4.7	100	42.2	17.5	.4	1.5
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	35.4	2.57	28.6	1	37	4.8	100	42.6	17.7	.4	1.6
MAY												
16...	0	38.1	2.53	27.8	1	35	4.4	100	41.5	17.4	.4	3.9
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	38.5	2.55	26.1	1	34	4.7	110	41.4	17.3	.4	4.1
JUL												
06...	--	39.0	2.20	17.9	.8	26	4.6	110	26.0	11.1	.3	4.8
06-06	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	39.0	2.35	19.0	.8	27	4.8	120	21.6	11.5	.3	7.9

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	PHOS-PHORUS ORTHO, 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												
15...	193	--	<.010	<.050	<.020	--	.34	<.050	<.010	--	<10	<2
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	194	--	<.010	<.050	<.020	--	.33	<.050	<.010	--	<10	<2
MAY												
16...	200	.190	.010	.200	.021	.35	.38	<.050	<.010	--	<10	<2
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	201	.185	.013	.198	.069	.38	.45	<.050	<.010	--	<10	4
JUL												
06...	174	--	<.010	<.050	<.020	--	.30	<.050	<.010	--	<10	3
06-06	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	<.010	<.050	.039	.33	.37	<.050	<.010	--	E10	21
06...	--	--	<.010	<.050	.440	.38	.82	E.040	.023	.071	70	845
06...	183	--	<.010	<.050	.889	.46	1.4	.178	.147	.451	640	1270

321506096382601 - Bardwell Lk Site AC

DATE	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)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06-06	<.003	<.002	<.002	<.002	.730	<.001	<.002	<.002	<.003	<.003	<.004	<.005
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--

321506096382601 - Bardwell Lk Site AC

DATE	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)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06-06	<.004	<.002	E.14	.021	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--

321506096382601 - Bardwell Lk Site AC

DATE	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												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06-06	<.005	.094	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.011
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--

321506096382601 - Bardwell 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											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
06-06	<.007	<.004	<.013	<.003	.040	E.010	<.007	<.013	<.002	<.001	<.002
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--

321704096393501 - Bardwell Lk 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB											
15...	1350	1.00	331	8.5	13.0	.52	10.7	103	K7	K6	98
15...	1355	10.0	331	8.5	12.5	--	10.7	102	--	--	--
15...	1400	18.0	330	8.5	12.5	--	10.6	101	--	--	99
MAY											
16...	1159	1.00	338	8.4	24.0	.30	8.4	102	K3	K1	100
16...	1205	10.0	338	8.4	24.0	--	8.4	102	--	--	--
16...	1212	21.0	341	8.4	24.0	--	8.0	97	--	--	100
JUL											
06...	1350	1.00	307	8.7	29.5	.49	9.3	124	K1	K1	110
06...	1353	10.0	306	8.3	28.5	--	7.4	97	--	--	--
06...	1359	21.0	310	8.2	28.5	--	6.1	80	--	--	110

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

321704096393501 - Bardwell Lk Site BC

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)	ALKA- LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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											
15...	35.2	2.54	28.9	1	38	4.6	100	42.7	17.7	.3	1.5
15...	--	--	--	--	--	--	--	--	--	--	--
15...	35.3	2.55	29.0	1	38	4.6	100	42.9	17.8	.4	1.5
MAY											
16...	36.5	2.58	28.1	1	36	4.4	100	41.8	17.5	.4	3.3
16...	--	--	--	--	--	--	--	--	--	--	--
16...	37.6	2.51	28.0	1	36	4.4	100	41.4	17.2	.4	3.6
JUL											
06...	40.2	2.24	17.8	.7	25	4.6	110	26.0	11.2	.3	5.0
06...	--	--	--	--	--	--	--	--	--	--	--
06...	39.6	2.22	17.9	.8	26	4.6	110	25.9	11.0	.3	5.0

321704096393501 - Bardwell Lk Site BC

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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB										
15...	194	<.010	<.050	<.020	--	.30	<.050	<.010	<10	<2
15...	--	--	--	--	--	--	--	--	--	--
15...	194	<.010	<.050	<.020	--	.30	<.050	<.010	<10	<2
MAY										
16...	198	<.010	.121	<.020	--	.34	<.050	<.010	<10	<2
16...	--	--	--	--	--	--	--	--	--	--
16...	199	<.010	.141	.021	.34	.37	<.050	<.010	<10	E1
JUL										
06...	175	<.010	<.050	<.020	--	.32	<.050	<.010	<10	<2
06...	--	--	--	--	--	--	--	--	--	--
06...	174	<.010	<.050	<.020	--	.33	<.050	<.010	<10	E2

321758096412901 - Bardwell 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)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	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)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB											
15...	1415	1.00	338	8.7	15.5	.27	10.7	109	K1	K3	100
MAY											
16...	1258	1.00	301	8.3	25.0	.15	8.4	103	K8	K1	96
16...	1306	6.00	305	8.4	25.0	--	8.4	--	--	--	97
JUL											
06...	1437	1.00	311	8.6	30.5	.27	9.8	133	K1	K1	110
06...	1445	6.00	314	8.6	30.5	--	10.6	144	--	--	110

321758096412901 - Bardwell Lk Site DC

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)	ALKA- LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB										
15...	35.7	2.62	29.8	1	38	4.9	100	44.6	18.4	.4
MAY										
16...	34.4	2.49	27.4	1	37	4.5	98	41.8	17.3	.4
16...	34.8	2.56	27.7	1	37	4.6	98	42.1	18.0	.4
JUL										
06...	40.0	2.22	18.0	.8	25	4.6	110	26.8	11.7	.3
06...	40.6	2.20	18.2	.8	25	4.7	110	27.2	11.4	.3

321758096412901 - Bardwell Lk Site DC

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB										
15...	1.2	199	<.010	<.050	<.020	.33	<.050	<.010	<10	<2
MAY										
16...	3.4	190	<.010	<.050	<.020	.35	<.050	<.010	<10	E1
16...	3.5	192	<.010	<.050	<.020	.35	<.050	<.010	<10	E1
JUL										
06...	5.4	177	<.010	<.050	<.020	.32	<.050	<.010	<10	<2
06...	5.5	179	<.010	<.050	<.020	.35	<.050	<.010	<10	<2

321830096404001 - Bardwell 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MAY								
16...	1233	1.00	302	8.5	25.0	.09	8.8	108
16...	1238	5.00	305	8.5	25.0	--	8.7	107
JUL								
06...	1409	1.00	304	8.6	30.5	.27	9.2	125
06...	1411	4.00	304	8.6	30.5	--	9.2	125

321830096404001 - Bardwell Lk Site CC

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,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAY								
16...	<.010	<.050	<.020	.32	<.050	<.010	<10	<2
16...	<.010	<.050	<.020	.34	<.050	<.010	<10	<2
JUL								
06...	<.010	<.050	<.020	.33	<.050	<.010	<10	<2
06...	--	--	--	--	--	--	--	--

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site AC (321506096382601)

Phytoplankton Analyses October 1999 to September 2000

Date	2/15/20
Time	1300
TOTAL CELLS/mL	198,044
NUMBER OF SPECIES	37
DEPTH COLLECTED (ft.)	1.05

Organisms		Cells/mL
BACILLARIOPHYTA		
Order Centrales		
Cyclotella sp. 1		260
Melosira italica	219	
Stephanodiscus hantzschii		5,296
Stephanodiscus medius		87
Stephanodiscus minutulus		347
Order Pennales		
Navicula cryptocephala		22
Synedra tenera		2,604
CHLOROPHYTA		
Ankistrodesmus falcatus		1,215
Chlamydomonas globosa		260
Chlamydomonas sp.		87
Coelastrum astroideum		695
Crucigenia quadrata		1,389
Dictyosphaerium pulchellum		5,209
Golenkinia radiata		87
Gonium sp.		347
Kirchneriella subsolitaria		347
Monoraphidium capricornutum		87
Non-motile Chlorococcales-spherical		695
Oocystis parva		174
Scenedesmus bijuga		174
Scenedesmus quadricauda		174
Scenedesmus serratus		174
Selenastrum minutum		260
Sphaerocystis schroeteri		347
Tetrastrum heteracanthum		1,042
CYANOPHYTA		
Anabaena flos-aquae		132
Aphanocapsa delicatissima		130,000
Aphanocapsa elachista		521
Dactylococcopsis irregularis		260
Merismopedia tenuissima		4,167
Non-motile blue-greens (>1 UM)		347
Oscillatoria limnetica		37,329
EUGLENOPHYTA		
Euglena sp.		22
PYRRHOPHYTA		
Gymnodinium sp. 1		22
CRYPTOPHYTA		
Cryptomonas erosa		174
Rhodomonas minuta v. *nannoplanctica*		868
Misc. microflagellate		2,604

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site DC (321758096412901)

Phytoplankton Analyses October 1999to September 2000

Date	2/15/00
Time	1415
TOTAL CELLS/mL	121,735
NUMBER OF SPECIES	34
DEPTH COLLECTED (ft.)	0.45

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella sp. 1	174
Melosira italica	347
Stephanodiscus hantzschii	4,427
Stephanodiscus minutulus	174
Order Pennales	
Navicula viridula v. *germainii*	1,042
Nitzschia acicularis	695
Nitzschia gracilis	87
Nitzschia palea	347
Nitzschia sp.	22
Synedra tenera	7,726
CHLOROPHYTA	
Ankistrodesmus falcatus	521
Dictyosphaerium pulchellum	1,042
Monoraphidium capricornutum	174
Non-motile Chlorococcales-spherical	1,649
Oocystis parva	868
Pyramichlamys dissecta	174
Scenedesmus abundans	347
Scenedesmus bijuga	174
Scenedesmus dimorphus	347
Scenedesmus quadricauda	1,042
Selenastrum minutum	87
Tetrastrum heteracanthum	347
Tetrastrum staurogeniaeforme	347
CYANOPHYTA	
Aphanocapsa delicatissima	60,768
Aphanocapsa elachista	1,042
Merismopedia tenuissima	1,042
Oscillatoria limnetica	35,159
EUGLENOPHYTA	
Euglena gracilis	174
Phacus sp.	87
Trachelomonas volvocina	87
PYRRHOPHYTA	
Gymnodinium sp. 1	87
CRYPTOPHYTA	
Cryptomonas erosa	87
Rhodomonas minuta v. *nannoplanctica*	695
Misc. microflagellate	347

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site AC (321758096412901)

Phytoplankton Analyses October 1999to September 2000

Date	5/16/00
Time	1121
TOTAL CELLS/mL	48,529
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	0.6

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella pseudostelligera	1,563
Stephanodiscus hantzschii	347
Stephanodiscus medius	2,691
Order Pennales	
Navicula halophila	695
Navicula viridula v. *germainii*	87
Nitzschia acicularis	87
Nitzschia palea	174
Synedra tenera	87
CHLOROPHYTA	
Ankistrodesmus convolutus	260
Ankistrodesmus falcatus	347
Botryococcus braunii	2,604
Kirchneriella subsolitaria	695
Lagerheimia quadriseta	87
Monoraphidium capricornutum	608
Non-motile Chlorococcales-spherical	434
Oocystis parva	1,563
Pediastrum simplex	1,389
Scenedesmus bijuga	695
Scenedesmus intermedius	347
Scenedesmus quadricauda	347
Scenedesmus sp.	868
Selenastrum minutum	87
Sphaerocystis schroeteri	174
Tetraedron minimum	87
Tetrastrum staurogeniaeforme	347
CYANOPHYTA	
Aphanocapsa delicatissima	7,292
Aphanocapsa elachista	868
Aphanocapsa koordersi	10,417
Merismopedia tenuissima	11,112
CRYPTOPHYTA	
Cryptomonas erosa	434
Rhodomonas minuta v. *nannoplanctica*	434
Misc. microflagellate	1,302

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site DC (321758096412901)

Phytoplankton Analyses October 1999to September 2000

Date	5/16/00
Time	1258
TOTAL CELLS/mL	100,854
NUMBER OF SPECIES	41
DEPTH COLLECTED (ft.)	0.25

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella meneghiniana	174
Cyclotella pseudostelligera	868
Stephanodiscus hantzschii	521
Stephanodiscus medius	1,389
Order Pennales	
Gomphonema sp.	44
Navicula halophila	1,042
Navicula viridula v. *germainii*	1,736
Nitzschia gracilis	174
Nitzschia palea	695
Pleurosigma sp.	44
Synedra tenera	695
CHLOROPHYTA	
Ankistrodesmus convolutus	174
Chlamydomonas globosa	521
Dictyosphaerium pulchellum	6,250
Didymogenes anomala	347
Kirchneriella subsolitaria	695
Monoraphidium capricornutum	174
Non-motile Chlorococcales-spherical	1,389
Oocystis parva	3,328
Oocystis pusilla	695
Pediastrum simplex	1,215
Pyramichlamys dissecta	347
Scenedesmus abundans	347
Scenedesmus dimorphus	695
Scenedesmus intermedius	695
Scenedesmus quadricauda	2,778
Tetraedron regulare var. *incus*	174
Treubaria setigerum	174
CYANOPHYTA	
Anabaena flos-aquae	3,299
Aphanizomenon gracile	1,736
Aphanocapsa delicatissima	12,154
Dactylococcopsis irregularis	174
Merismopedia tenuissima	32,410
Oscillatoria limnetica	20,835
EUGLENOPHYTA	
Euglena acus	44
Euglena sp.	174
Phacus sp.	174
PYRRHOPHYTA	
Peridinium polonicum	44
CRYPTOPHYTA	
Cryptomonas erosa	868
Rhodomonas minuta v. *nannoplanctica*	1,215
Misc. microflagellate	347

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site AC (321758096412901)

Phytoplankton Analyses October 1999to September 2000

Date	7/6/00
Time	1257
TOTAL CELLS/mL	106,461
NUMBER OF SPECIES	56
DEPTH COLLECTED (ft.)	0.90

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Melosira italica	347
Stephanodiscus hantzschii	799
Stephanodiscus medius	104
Stephanodiscus minutulus	208
Order Pennales	
Navicula halophila	69
Nitzschia acicularis	35
Nitzschia palea	139
Surirella minuta	9
Synedra tenera	139
Synedra ulna	69
CHLOROPHYTA	
Actinastrum sp.	69
Ankistrodesmus convolutus	174
Ankistrodesmus falcatus	139
Characium limnetcum	35
Chlamydomonas globosa	208
Chlamydomonas platystigma	35
Chlamydomonas sp.	35
Closterium moniliferum	9
Coelastrum astroideum	556
Cosmarium sp.	69
Crucigenia truncata	139
Dictyosphaerium pulchellum	417
Monoraphidium capricornutum	35
Oocystis parva	729
Oocystis pusilla	139
Pediastrum duplex	70
Pyramichlamys dissecta	35
Scenedesmus abundans	69
Scenedesmus bijuga	35
Scenedesmus quadricauda	451
Scenedesmus sp.	69
Schroederia judayi	35
Selenastrum minutum	35
Sphaerocystis schroeteri	417
Tetraedron minimum	69
Tetraedron regulare var. *incus*	35
Tetrastrum heteracanthum	278
CYANOPHYTA	
Anabaena circinalis	61
Anabaena flos-aquae	140
Anabaena sp.	824
Aphanizomenon gracile	149
Aphanocapsa delicatissima	42,324
Aphanocapsa elachista	14,390
Cylindrospermopsis philippinensis	382
Lyngbya contorta	695
Lyngbya lagerheimii f. *minor*	1,667
Lyngbya limnetica	1,215
Merismopedia tenuissima	24,002
Microcystis aeruginosa-colony form	1,389
Non-motile blue-greens (>1 UM)	903
Oscillatoria limnetica	11,720
EUGLENOPHYTA	
Phacus sp.	9
PYRRHOPHYTA	
Peridinium polonicum	9
CRYPTOPHYTA	
Cryptomonas erosa	35
Rhodomonas minuta v. *nannoplanctica*	35
Misc. microflagellate	208

08063700 BARDWELL LAKE NEAR ENNIS, TX--Continued

Bardwell Lake Site DC (321758096412901)

Phytoplankton Analyses October 1999to September 2000

Date	7/6/00
Time	1437
TOTAL CELLS/mL	108,944
NUMBER OF SPECIES	42
DEPTH COLLECTED (ft.)	0.45

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella meneghiniana	15
Cyclotella sp. 1	116
Melosira italica	810
Stephanodiscus hantzschii	347
Stephanodiscus minutulus	232
Order Pennales	
Navicula halophila	116
Synedra tenera	232
Synedra ulna	15
CHLOROPHYTA	
Ankistrodesmus falcatus	637
Chlamydomonas globosa	174
Chlamydomonas platystigma	116
Cosmarium sp.	29
Dictyosphaerium pulchellum	232
Monoraphidium capricornutum	232
Non-motile Chlorococcales-spherical	579
Oocystis parva	58
Pediastrum duplex	463
Scenedesmus bijuga	116
Sphaerocystis schroeteri	1,389
Staurastrum sp.	15
Tetrastrum staurogeniaeforme	232
Treubaria setigerum	58
Ulothrix sp.	463
CYANOPHYTA	
Anabaena circinalis	810
Anabaena flos-aquae	463
Aphanizomenon gracile	488
Aphanocapsa delicatissima	8,594
Aphanocapsa elachista	21,460
Cylindrospermopsis philippinensis	1,534
Lyngbya contorta	1,667
Lyngbya lagerheimii f. *minor*	3,010
Merismopedia tenuissima	48,614
Oscillatoria limnetica	13,890
EUGLENOPHYTA	
Euglena sp.	174
Phacus sp.	58
Trachelomonas sp.	58
PYRRHOPHYTA	
Gymnodinium sp. 1	58
Gymnodinium sp. 2	58
Peridinium umbonatum	58
CRYPTOPHYTA	
Cryptomonas erosa	405
Rhodomonas minuta v. *nannoplanctica*	637
Misc. microflagellate	232

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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 sea level (U.S. Army Corps of Engineers benchmark). Prior to Oct 2, 1998, datum was 370.18 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Nov 1965, at least 10% of contributing drainage area has been regulated by Bardwell Lake (station 08063700, normal storage 46,122 acre-ft) 0.8 mi upstream. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--2 years (water years 1964-65), 32.8 ft^3/s (23,720 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1964-65).--Maximum discharge 2,960 ft^3/s Feb 9, 1965 (gage height, 17.55 ft); 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.07	.04	.08	.07	.02	.18	.16	.03	275	.04	.00
2	.03	.04	.06	.10	.06	.03	.19	.08	.02	271	.03	.00
3	.04	.03	.07	.09	.05	.06	.31	.14	.06	270	.03	.00
4	.04	.02	.13	.07	.05	.04	.17	1.1	2.2	273	.02	.00
5	.04	.02	.10	.08	.03	.03	.14	.55	113	152	.03	.00
6	.04	.03	.08	.08	.04	.03	.11	105	199	62	.01	.00
7	.04	.03	.07	.13	.03	.03	.11	185	256	23	.02	.00
8	.04	.04	.06	.20	.04	.03	.09	124	807	.24	.01	.00
9	.03	.05	.12	.16	.04	.03	.09	88	958	.19	.01	.00
10	.04	.05	.10	.14	.04	.05	.10	87	947	7.2	.02	.00
11	.04	.04	.11	.12	.04	.06	.43	86	957	.38	.02	.00
12	.03	.04	.33	.12	.03	.04	3.2	50	538	.31	.02	.00
13	.02	.04	.17	.12	.03	.03	.74	.17	343	.28	.01	.00
14	.01	.04	.13	.10	.02	.03	.36	.06	809	.23	.00	.00
15	.02	.04	.10	.11	.02	.03	.21	.05	1060	.25	.00	.00
16	.02	.03	.09	.12	.02	.03	.17	.62	1190	.21	.00	.00
17	.02	.03	.09	.10	.02	.04	.17	.10	1340	.17	.04	.00
18	.03	.03	.11	.10	.02	.04	.08	.06	863	.13	.02	.00
19	.03	.03	.10	.10	.01	.04	.09	.35	393	.10	.00	.00
20	.03	.05	.09	.08	.01	.03	.20	.48	1090	.08	.00	.00
21	.02	.06	.08	.06	.02	.07	.15	.18	1310	.06	.00	.00
22	.02	.06	.08	.07	.02	.11	.17	.10	1300	.06	.00	.00
23	.02	.06	.09	.07	.04	.07	.12	.06	1280	.05	.00	.00
24	.01	.05	.08	.06	.03	.06	.07	.05	1260	.04	.00	.00
25	.01	.05	.08	.05	.03	.05	.06	.05	1240	.04	.00	.00
26	.03	.05	.09	.04	.13	1.2	.08	.05	1220	.03	.00	.00
27	.03	.05	.10	.11	.06	.36	.07	.05	1110	.03	.00	.00
28	.03	.05	.09	.11	.04	.40	.08	.05	926	.04	.00	.00
29	.04	.05	.07	.08	.03	.62	.07	.04	916	.04	.00	.00
30	.12	.04	.07	.07	---	.37	.17	.03	604	.05	.00	.00
31	.10	---	.08	.06	---	.18	---	.03	---	.05	.00	---
TOTAL	1.05	1.27	3.06	2.98	1.07	4.21	8.18	729.61	23031.31	1336.26	0.33	0.00
MEAN	.034	.042	.099	.096	.037	.14	.27	23.5	768	43.1	.011	.000
MAX	.12	.07	.33	.20	.13	1.2	3.2	185	1340	275	.04	.00
MIN	.01	.02	.04	.04	.01	.02	.06	.03	.02	.03	.00	.00
AC-FT	2.1	2.5	6.1	5.9	2.1	8.4	16	1450	45680	2650	.7	.00

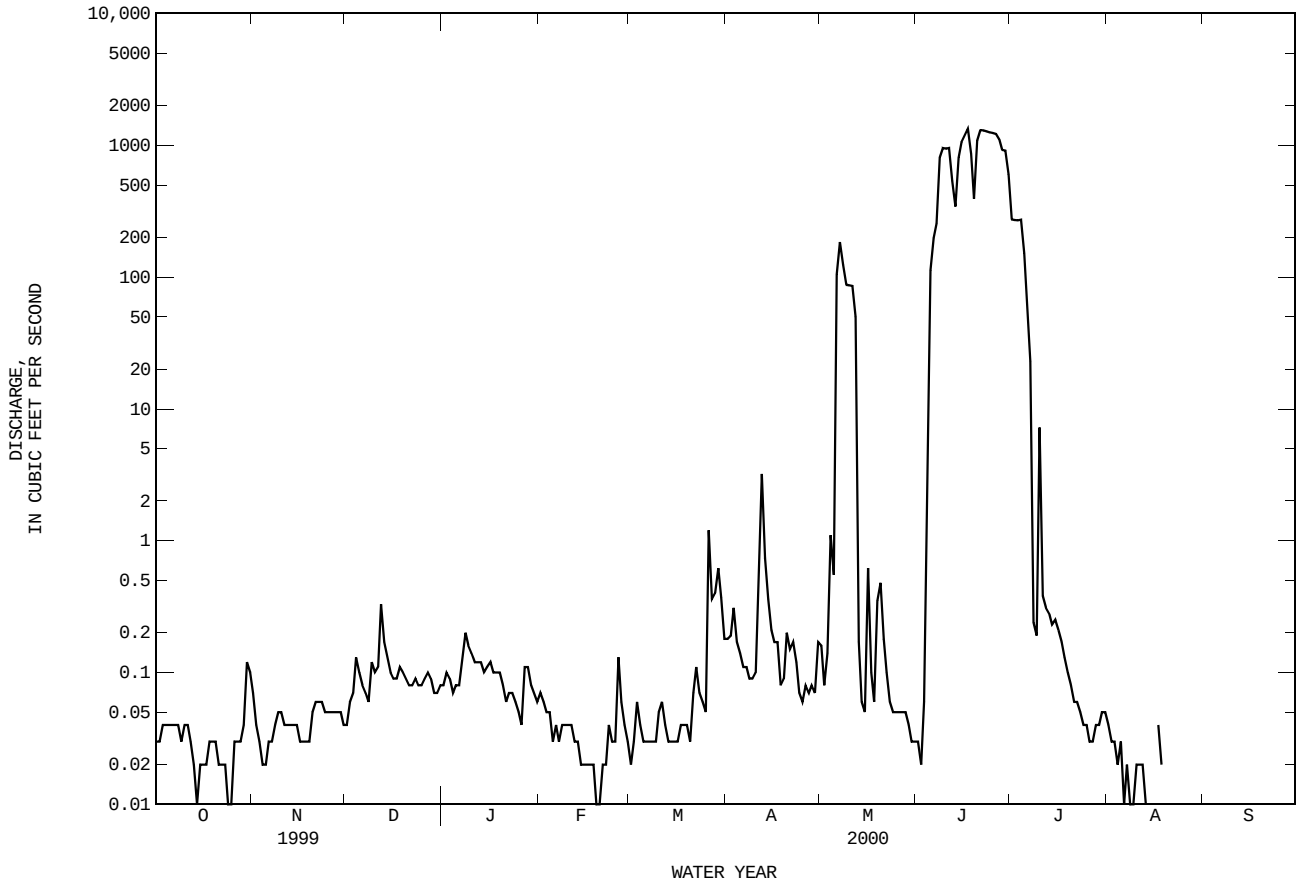
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000z, BY WATER YEAR (WY)

MEAN	21.0	81.6	93.5	127	114	160	123	167	199	27.2	4.78	6.30
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	.000	.014	.018	.022	.022	.024	.11	.11	.001	.000	.000	.000
(WY)	1967	1970	1990	1967	1967	1967	1996	1996	1996	1966	1966	1966

08063800 WAXAHACHIE CREEK NEAR BARDWELL, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000z	
ANNUAL TOTAL	19213.87		25119.33			
ANNUAL MEAN	52.6		68.6		93.4	
HIGHEST ANNUAL MEAN					318	1992
LOWEST ANNUAL MEAN					.063	1967
HIGHEST DAILY MEAN	904	Feb 6	1340	Jun 17	g1880	Jun 25 1981
LOWEST DAILY MEAN	.01	May 1	.00	Aug 14	.00	Oct 4 1965
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 17	.00	Aug 19	.00	Oct 7 1965
INSTANTANEOUS PEAK FLOW			1350	Jun 16	g1960	Jun 25 1981
INSTANTANEOUS PEAK STAGE			23.01	Jun 16	23.90	Dec 24 1998
ANNUAL RUNOFF (AC-FT)	38110		49820		67680	
10 PERCENT EXCEEDS	149		86		319	
50 PERCENT EXCEEDS	.08		.05		1.1	
90 PERCENT EXCEEDS	.01		.00		.00	

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



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1980 to Sep 1982, Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1980 to Sep 1982, Oct 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
FEB											
15...	1330	.02	614	8.0	16.0	2.2	9.8	101	1.0	190	30
MAY											
16...	1445	.65	384	7.5	25.0	20	6.8	84	.5	120	--
JUL											
06...	1130	105	317	7.8	28.5	27	12.2	162	1.4	220	5

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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)
FEB											
15...	68	5.2	48	2	4.0	160	96	33	.41	4.2	375
MAY											
16...	42	2.9	29	1	8.4	120	44	18	.39	4.7	233
JUL											
06...	86	2.4	28	.8	5.2	220	45	19	.28	9.5	351

DATE	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)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
15...	355	4	--	<.010	<.050	<.020	--	.38	<.050	<.010	--
MAY											
16...	221	13	--	<.010	.192	.030	.40	.43	<.050	<.010	--
JUL											
06...	336	35	1.87	.016	1.89	.041	.31	.35	E.044	.038	.12

DATE	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)	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)
FEB										
15...	5.3	<1.0	<1.0	3	82	<1.0	<1.0	<1.0	<1.0	1.5
MAY										
16...	6.1	10	<1.0	3	58	<1.0	<1.0	<.80	<1.0	1.4
JUL										
06...	6.5	5.0	<1.0	3	72	<1.0	<1.0	E.59	<1.0	5.4

DATE	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)
FEB										
15...	11	<1.0	19	<.2	1.3	4.0	<2	<1.0	<1.0	1.1
MAY										
16...	<10	<1.0	5.2	<.2	3.0	3.1	<2	<1.0	4.4	<1.0
JUL										
06...	<10	<1.0	28	<.2	3.4	7.4	<2	<1.0	7.6	<1.0

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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 sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for daily discharges less than 1.0 ft^3/s, which are fair. Since installation of gage in Oct 1984, at least 10% of contributing drainage area has been regulated by Bardwell Lake (station 08063700, conservation pool storage 46,122 acre-ft) on Waxahachie Creek. 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, discontinued) indicates that the maximum stage since at least 1870 occurred in Aug 1887, and that other significant floods occurred in Dec 1913, May 1944, and May 1958. Stages for these floods are unknown, but over the years a levee system has been developed along the main channel to limit cropland flooding.

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

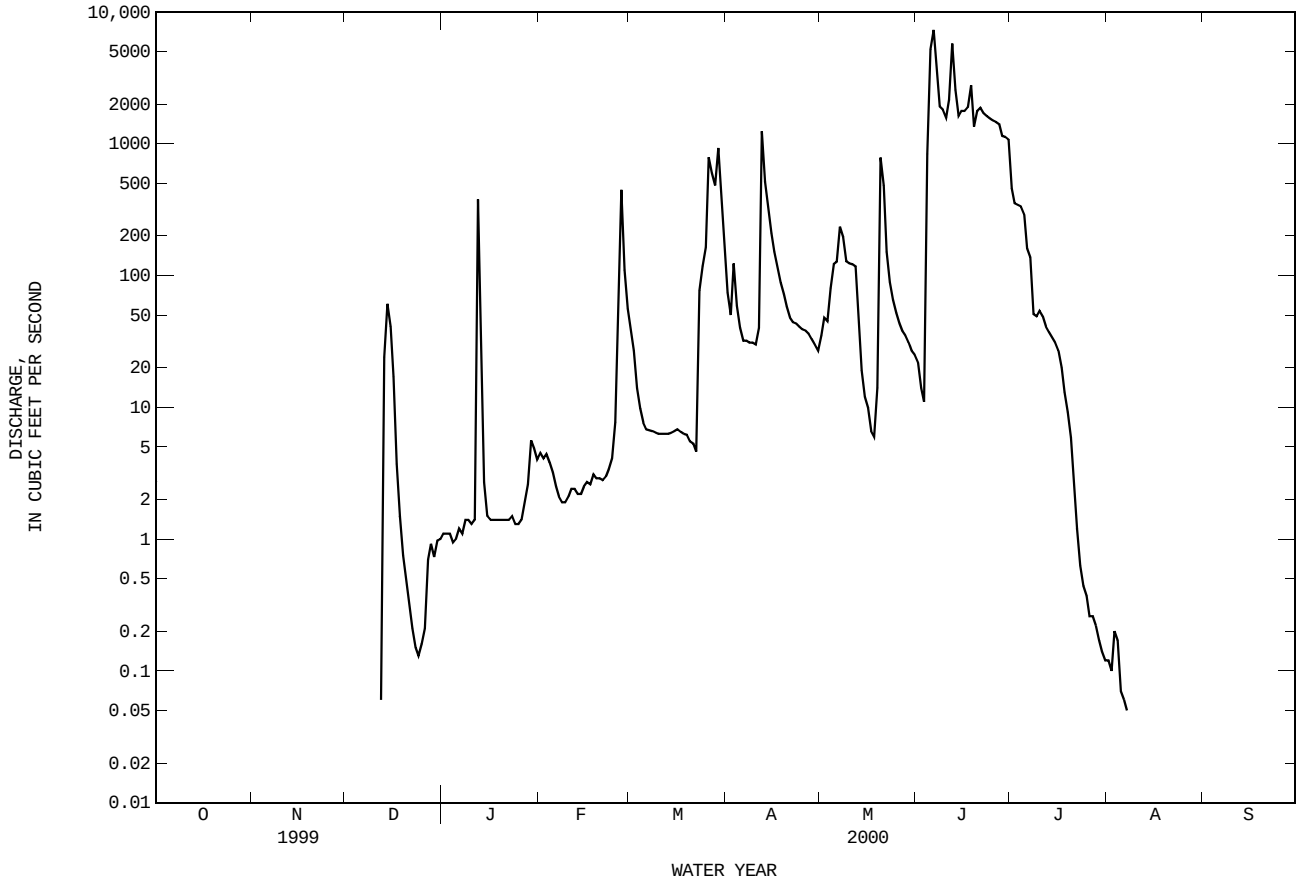
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	1.1	4.5	38	74	35	22	458	.12	.00
2	.00	.00	.00	1.1	4.1	27	50	48	14	352	.10	.00
3	.00	.00	.00	1.1	4.4	14	123	45	11	342	.20	.00
4	.00	.00	.00	.94	3.8	9.8	59	80	835	334	.17	.00
5	.00	.00	.00	1.0	3.2	7.6	40	122	5220	291	.07	.00
6	.00	.00	.00	1.2	2.5	6.8	32	127	7310	160	.06	.00
7	.00	.00	.00	1.1	2.1	6.7	32	234	3610	137	.05	.00
8	.00	.00	.00	1.4	1.9	6.6	31	196	1920	51	.00	.00
9	.00	.00	.00	1.4	1.9	6.4	31	128	1810	49	.00	.00
10	.00	.00	.00	1.3	2.1	6.3	30	124	1580	54	.00	.00
11	.00	.00	.00	1.4	2.4	6.3	40	122	2160	49	.00	.00
12	.00	.00	.06	377	2.4	6.3	1240	117	5740	41	.00	.00
13	.00	.00	24	41	2.2	6.3	517	40	2570	37	.00	.00
14	.00	.00	61	2.7	2.2	6.4	324	19	1620	34	.00	.00
15	.00	.00	41	1.5	2.5	6.6	210	12	1770	31	.00	.00
16	.00	.00	17	1.4	2.7	6.8	152	9.9	1770	27	.00	.00
17	.00	.00	3.7	1.4	2.6	6.5	115	6.6	1900	20	.00	.00
18	.00	.00	1.5	1.4	3.1	6.3	88	6.0	2770	13	.00	.00
19	.00	.00	.75	1.4	2.9	6.2	72	14	1350	9.2	.00	.00
20	.00	.00	.51	1.4	2.9	5.5	58	784	1770	5.9	.00	.00
21	.00	.00	.32	1.4	2.8	5.3	48	482	1880	2.8	.00	.00
22	.00	.00	.21	1.4	3.0	4.6	44	152	1710	1.2	.00	.00
23	.00	.00	.15	1.5	3.4	77	43	89	1620	.63	.00	.00
24	.00	.00	.13	1.3	4.1	118	41	65	1560	.44	.00	.00
25	.00	.00	.16	1.3	7.7	164	39	52	1500	.37	.00	.00
26	.00	.00	.21	1.4	44	787	38	44	1460	.26	.00	.00
27	.00	.00	.70	1.9	447	597	36	38	1400	.26	.00	.00
28	.00	.00	.92	2.6	110	483	33	35	1150	.22	.00	.00
29	.00	.00	.73	5.6	56	927	30	31	1130	.17	.00	.00
30	.00	.00	.97	4.9	---	353	27	27	1080	.14	.00	.00
31	.00	---	1.0	4.0	---	149	---	25	---	.12	.00	---
TOTAL	0.00	0.00	155.02	469.54	734.4	3857.3	3697	3309.5	60242	2501.71	0.77	0.00
MEAN	.000	.000	5.00	15.1	25.3	124	123	107	2008	80.7	.025	.000
MAX	.00	.00	61	377	447	927	1240	784	7310	458	.20	.00
MIN	.00	.00	.00	.94	1.9	4.6	27	6.0	11	.12	.00	.00
AC-FT	.00	.00	307	931	1460	7650	7330	6560	119500	4960	1.5	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	336	387	912	578	800	762	535	759	694	47.3	35.7	25.3
MAX	1499	2002	3579	2393	2450	1819	2218	2932	2560	194	185	149
(WY)	1986	1999	1992	1998	1997	1992	1995	1989	1986	1989	1995	1991
MIN	.000	.000	1.45	4.66	5.16	6.35	12.2	1.34	.051	.081	.000	.000
(WY)	1989	2000	1989	1996	1996	1996	1996	1996	1996	1988	1988	1985

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	58164.40		74967.24			
ANNUAL MEAN	159		205		488	
HIGHEST ANNUAL MEAN					1263	1992
LOWEST ANNUAL MEAN					12.9	1996
HIGHEST DAILY MEAN	8620	Jan 30	7310	Jun 6	22700	Dec 21 1991
LOWEST DAILY MEAN	.00	Aug 16	.00	Oct 1	.00	Aug 6 1985
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 16	.00	Oct 1	.00	Aug 6 1985
INSTANTANEOUS PEAK FLOW			8880	Jun 6	43400	Jun 6 1986
INSTANTANEOUS PEAK STAGE			28.72	Jun 6	32.57	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	115400		148700		353400	
10 PERCENT EXCEEDS	362		450		1210	
50 PERCENT EXCEEDS	33		1.9		41	
90 PERCENT EXCEEDS	.00		.00		.07	

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.

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 good. 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 using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 4%, chloride is 35%, sulfate is 24% and for hardness is 13%. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District Office upon request. National water-quality assessment program data are included in this record.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,510 microsiemens, Nov 21, 1988; minimum, 100 microsiemens, 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, 1,680 microsiemens, Feb 20; minimum, 150 microsiemens, Mar 26.
WATER TEMPERATURE: Maximum, 31.9°C, Aug 6; minimum, 9.9°C, Feb 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
JAN											
05...	1500	.05	1190	7.8	16.0	7.8	10.8	--	1.0	330	120
MAR											
15...	1121	6.5	950	8.5	17.0	40	8.2	86	3.6	260	87
AUG											
09...	0730	.12	855	7.6	28.7	24	3.0	39	.3	240	39

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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)
JAN										
05...	119	8.15	119	3	5.0	220	224	116	.4	6.8
MAR										
15...	93.8	6.40	91.9	2	5.2	170	156	86.6	.5	7.8
AUG										
09...	85.0	5.93	81.2	2	4.6	200	112	77.5	.4	9.2

DATE	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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JAN										
05...	768	729	21	.089	.010	.099	<.020	.40	<.050	<.010
MAR										
15...	595	554	52	--	<.010	.177	<.020	.53	E.031	<.010
AUG										
09...	525	495	29	--	<.010	<.050	<.020	.33	<.050	<.010

DATE	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)	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)
JAN										
05...	8.3	--	--	--	--	--	--	--	--	--
MAR										
15...	12	6	<1	2.3	82	<1	<1.0	<1.0	<1	4
AUG										
09...	5.1	<1	<1	3.2	95	<1	<1.0	<.8	<1	1

08064100 CHAMBERS CREEK NEAR RICE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)
JAN										
05...	20	--	120	--	--	--	--	--	--	--
MAR										
15...	10	<1	42	<.2	7	5	<2.4	<1	10	2
AUG										
09...	<10	<1	46	<.2	5	4	<2.4	<1	3	2

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1999 TO SEPTEMBER 2000

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	0	--	--	--	--	--	--	--	--
NOV.	1999	0	--	--	--	--	--	--	--	--
DEC.	1999	155.02	480	284	119	25	10.6	66	27.8	170
JAN.	2000	469.54	698	417	529	48	60.5	110	135	230
FEB.	2000	734.4	786	473	938	61	122	130	252	250
MAR.	2000	3857.3	477	282	2940	26	269	67	695	160
APR.	2000	3697	447	264	2630	22	220	60	604	160
MAY	2000	3309.5	393	231	2060	18	162	52	465	140
JUNE	2000	60242	303	177	28850	12	1980	38	6250	110
JULY	2000	2501.71	381	224	1510	17	117	50	339	140
AUG.	2000	0.77	733	438	0.91	51	0.11	110	0.24	240
SEPT	2000	0	--	--	--	--	--	--	--	--
TOTAL		74967.24	**	**	39590	**	2940	**	8760	**
WTD.AVG.		205	333	196	**	15	**	43	**	120

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	e1200
2	---	---	---	---	---	---	---	---	---	---	---	e1300
3	---	---	---	---	---	---	---	---	---	---	---	e1300
4	---	---	---	---	---	---	---	---	---	---	---	e1400
5	---	---	---	---	---	---	---	---	---	---	---	e1400
6	---	---	---	---	---	---	---	---	---	---	---	e1500
7	---	---	---	---	---	---	---	---	---	---	---	e1500
8	---	---	---	---	---	---	---	---	---	---	---	e1600
9	---	---	---	---	---	---	---	---	---	---	---	e1600
10	---	---	---	---	---	---	---	---	---	---	---	e1700
11	---	---	---	---	---	---	---	---	---	---	---	e800
12	---	---	---	---	---	---	---	---	---	---	---	e650
13	---	---	---	---	---	---	---	---	e600	---	---	e500
14	---	---	---	---	---	---	---	---	e450	---	---	e600
15	---	---	---	---	---	---	---	---	e400	---	---	e700
16	---	---	---	---	---	---	---	---	e450	---	---	e800
17	---	---	---	---	---	---	---	---	e500	---	---	e1000
18	---	---	---	---	---	---	---	---	e500	---	---	e1100
19	---	---	---	---	---	---	---	---	e600	---	---	e1200
20	---	---	---	---	---	---	---	---	e650	---	---	e1200
21	---	---	---	---	---	---	---	---	e700	---	---	e1300
22	---	---	---	---	---	---	---	---	e700	---	---	e1400
23	---	---	---	---	---	---	---	---	e750	---	---	e1400
24	---	---	---	---	---	---	---	---	e800	---	---	e1500
25	---	---	---	---	---	---	---	---	e850	---	---	e1500
26	---	---	---	---	---	---	---	---	e850	---	---	e1500
27	---	---	---	---	---	---	---	---	e900	---	---	e1500
28	---	---	---	---	---	---	---	---	e950	---	---	e1200
29	---	---	---	---	---	---	---	---	e950	---	---	e1100
30	---	---	---	---	---	---	---	---	e1050	---	---	e1100
31	---	---	---	---	---	---	---	---	e1050	---	---	e1100
MONTH	---	---	---	---	---	---	---	---	---	---	---	1210

08064100 CHAMBERS CREEK NEAR RICE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	e1000	760	739	746	437	402	419	524	513	518
2	---	---	e1100	794	760	777	---	---	e440	517	464	495
3	---	---	e1100	---	---	e760	487	465	475	503	481	489
4	---	---	e1100	---	---	e740	491	475	484	535	193	363
5	---	---	e1200	---	---	e730	532	489	514	457	272	352
6	---	---	e1300	725	705	713	552	532	544	565	381	456
7	---	---	e1400	731	725	729	577	552	565	410	384	391
8	1500	1440	1480	742	731	736	591	575	582	400	377	382
9	1530	1500	1520	782	742	763	605	591	596	403	394	397
10	1540	1530	1530	827	782	806	612	601	605	398	394	396
11	1560	1540	1550	842	827	835	611	603	607	394	391	392
12	1580	1560	1570	897	842	871	---	---	e450	391	385	388
13	1600	1580	1590	926	897	913	---	---	e420	433	386	408
14	1600	1590	1590	949	926	938	408	375	390	505	433	466
15	1610	1600	1600	972	942	950	409	404	407	581	505	545
16	1610	1600	1600	993	972	987	412	406	408	623	581	611
17	1610	1600	1600	981	953	967	424	412	417	651	620	642
18	1630	1610	1620	975	953	966	437	424	432	672	647	664
19	1650	1630	1640	974	948	964	454	437	445	672	582	621
20	1680	1650	1670	952	945	949	456	435	444	640	228	342
21	1660	1640	1660	945	931	941	---	---	e450	368	292	341
22	1640	1610	1630	938	898	915	---	---	e450	440	357	412
23	1620	1600	1610	937	871	899	---	---	e500	485	440	468
24	1640	1620	1630	931	825	889	---	---	e500	486	478	482
25	1640	1550	1610	870	804	818	500	494	498	483	474	479
26	1570	1330	1500	833	150	463	504	492	498	496	476	485
27	1330	487	659	617	287	451	503	498	500	501	493	496
28	606	575	594	461	422	447	504	500	502	507	493	502
29	740	575	691	440	297	363	516	499	508	502	494	498
30	---	---	---	379	311	350	524	514	517	506	494	500
31	---	---	---	402	378	386	---	---	---	505	489	496
MONTH	---	---	1390	---	---	767	---	---	486	672	193	467

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	508	492	498	401	345	379	774	752	759	---	---	---
2	513	507	510	349	340	344	780	766	772	---	---	---
3	517	504	510	355	348	352	791	777	783	---	---	---
4	513	233	383	354	348	350	809	778	791	---	---	---
5	317	234	280	380	346	353	811	796	802	---	---	---
6	345	273	320	383	366	373	818	803	810	---	---	---
7	316	274	280	---	---	e390	---	---	---	---	---	---
8	302	292	295	---	---	e420	---	---	---	---	---	---
9	308	297	304	---	---	e440	---	---	---	---	---	---
10	309	294	305	470	456	464	---	---	---	---	---	---
11	312	233	290	520	455	480	---	---	---	---	---	---
12	277	215	243	474	463	470	---	---	---	---	---	---
13	309	277	294	486	473	482	---	---	---	---	---	---
14	307	302	305	499	486	493	---	---	---	---	---	---
15	314	307	310	513	499	504	---	---	---	---	---	---
16	322	310	314	539	511	522	---	---	---	---	---	---
17	319	305	312	555	530	538	---	---	---	---	---	---
18	316	285	299	565	551	556	---	---	---	---	---	---
19	351	316	332	582	565	574	---	---	---	---	---	---
20	327	318	321	601	574	590	---	---	---	---	---	---
21	323	317	321	621	595	609	---	---	---	---	---	---
22	320	317	318	645	617	630	---	---	---	---	---	---
23	318	315	317	658	639	648	---	---	---	---	---	---
24	316	314	315	677	654	664	---	---	---	---	---	---
25	316	314	315	700	676	686	---	---	---	---	---	---
26	321	314	318	706	696	700	---	---	---	---	---	---
27	324	315	319	717	706	711	---	---	---	---	---	---
28	348	322	331	731	710	719	---	---	---	---	---	---
29	352	342	348	745	723	732	---	---	---	---	---	---
30	388	336	352	762	745	751	---	---	---	---	---	---
31	---	---	---	759	742	750	---	---	---	---	---	---
MONTH	517	215	332	---	---	538	---	---	---	---	---	---

e Estimated

08064100 CHAMBERS CREEK NEAR RICE, TX--Continued

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	18.1	16.4	17.3	18.0	17.6	17.8	23.1	21.6	22.4
2	---	---	---	18.8	17.3	18.0	---	---	---	23.1	21.7	22.5
3	---	---	---	---	---	---	17.2	16.4	16.8	23.0	21.7	22.5
4	---	---	---	---	---	---	17.2	14.8	16.1	22.7	15.2	18.8
5	---	---	---	---	---	---	17.7	14.9	16.4	21.8	19.9	21.4
6	---	---	---	17.1	15.1	16.0	19.7	16.9	18.3	24.1	21.6	22.6
7	---	---	---	18.4	16.5	17.4	22.0	19.3	20.4	23.7	22.2	22.9
8	---	---	---	19.1	17.6	18.3	21.1	19.1	20.2	24.6	22.7	23.6
9	12.9	9.9	11.3	19.8	17.1	18.4	19.8	17.5	18.8	24.8	23.5	24.0
10	15.5	12.1	13.5	18.7	17.1	17.9	19.1	18.1	18.6	23.7	22.7	23.2
11	15.8	13.4	14.5	17.5	15.5	16.4	19.5	18.2	18.7	24.8	23.7	24.2
12	14.4	13.0	13.7	17.0	14.0	15.3	19.2	18.2	18.7	25.0	24.2	24.7
13	16.1	13.7	14.6	17.5	14.2	15.7	---	---	---	25.5	24.0	24.7
14	14.9	12.9	14.0	16.9	15.9	16.4	16.8	16.0	16.4	24.9	22.7	23.9
15	15.5	12.6	13.9	17.5	16.1	16.8	18.2	16.1	17.2	24.9	22.5	23.8
16	16.7	14.4	15.4	18.5	16.8	17.5	21.1	18.1	19.7	26.0	24.1	25.0
17	18.3	16.0	17.0	17.7	14.7	15.9	22.2	20.6	21.3	26.6	24.7	25.6
18	19.5	17.6	18.4	15.8	14.2	14.8	23.2	21.3	22.2	26.6	25.2	25.9
19	17.6	14.9	15.9	16.4	14.2	15.2	24.3	23.2	23.7	26.2	22.3	24.2
20	15.1	13.3	14.2	17.2	13.9	15.6	25.0	23.5	24.2	22.9	18.6	20.2
21	15.1	12.8	13.9	16.7	16.1	16.3	---	---	---	22.4	21.0	21.6
22	16.0	14.0	14.9	17.6	16.0	16.6	---	---	---	26.0	21.8	24.2
23	17.8	14.9	16.2	17.6	16.7	17.3	---	---	---	27.2	25.0	26.1
24	18.5	16.5	17.3	20.3	17.2	18.6	---	---	---	28.3	26.8	27.6
25	18.5	17.6	18.0	22.4	19.9	20.9	23.6	21.9	22.8	29.6	27.5	28.5
26	18.3	17.1	17.6	21.6	11.0	17.9	23.9	22.0	23.0	29.1	28.0	28.6
27	17.2	15.3	15.9	22.0	16.9	18.9	23.2	22.4	22.8	28.8	27.7	28.3
28	16.7	14.8	15.7	20.2	18.5	19.5	23.9	21.8	22.8	28.6	26.6	27.6
29	18.2	16.0	17.0	22.0	19.6	20.6	23.7	21.9	22.8	28.8	26.5	27.6
30	---	---	---	20.8	18.0	19.6	23.3	22.7	23.0	29.5	27.1	28.2
31	---	---	---	18.4	17.2	17.8	---	---	---	29.9	27.6	28.7
MONTH	---	---	---	---	---	---	---	---	---	29.9	15.2	24.6

08064100 CHAMBERS CREEK NEAR RICE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.8	27.9	28.8	29.4	28.1	28.6	29.7	27.4	28.5	---	---	---
2	29.4	27.8	28.6	28.6	28.1	28.3	29.9	27.3	28.5	---	---	---
3	28.6	27.5	27.9	28.9	27.6	28.2	30.2	27.6	28.8	---	---	---
4	27.6	23.0	25.1	29.0	27.6	28.2	31.0	28.2	29.4	---	---	---
5	24.1	23.0	23.3	29.4	27.6	28.4	31.4	28.5	29.7	---	---	---
6	24.4	22.8	23.6	31.2	28.1	29.7	31.9	28.6	30.0	---	---	---
7	24.9	22.9	23.8	---	---	---	---	---	---	---	---	---
8	25.0	23.7	24.4	---	---	---	---	---	---	---	---	---
9	25.1	24.6	24.9	---	---	---	---	---	---	---	---	---
10	25.1	24.8	25.0	31.4	30.2	30.8	---	---	---	---	---	---
11	25.3	24.0	24.8	31.1	29.2	30.3	---	---	---	---	---	---
12	25.8	24.1	24.9	31.4	29.2	30.4	---	---	---	---	---	---
13	26.3	25.2	25.8	31.1	29.7	30.5	---	---	---	---	---	---
14	26.4	25.3	25.8	31.3	29.9	30.6	---	---	---	---	---	---
15	26.3	25.9	26.1	31.9	29.9	30.9	---	---	---	---	---	---
16	26.3	25.6	26.0	31.7	29.8	30.7	---	---	---	---	---	---
17	26.6	26.1	26.3	31.3	29.3	30.4	---	---	---	---	---	---
18	26.2	25.8	26.0	31.4	29.5	30.4	---	---	---	---	---	---
19	26.8	25.6	26.1	31.8	29.5	30.6	---	---	---	---	---	---
20	27.0	26.2	26.6	31.9	29.5	30.7	---	---	---	---	---	---
21	27.1	26.7	26.9	31.7	29.4	30.6	---	---	---	---	---	---
22	27.4	26.8	27.2	31.7	29.4	30.5	---	---	---	---	---	---
23	27.6	27.0	27.2	30.5	29.1	29.7	---	---	---	---	---	---
24	27.5	26.9	27.2	30.0	28.0	28.9	---	---	---	---	---	---
25	27.8	26.9	27.3	29.3	27.4	28.4	---	---	---	---	---	---
26	28.1	27.2	27.7	30.0	27.7	28.8	---	---	---	---	---	---
27	29.5	28.0	28.4	29.3	28.1	28.8	---	---	---	---	---	---
28	29.7	28.5	28.8	29.5	27.6	28.5	---	---	---	---	---	---
29	29.9	29.1	29.4	29.3	27.9	28.6	---	---	---	---	---	---
30	29.6	28.7	29.1	29.8	27.5	28.6	---	---	---	---	---	---
31	---	---	---	30.0	27.3	28.5	---	---	---	---	---	---
MONTH	29.9	22.8	26.4	---	---	---	---	---	---	---	---	---

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08064510 HALBERT LAKE NEAR CORSICANA, TX

LOCATION.--Lat 32°04′36", long 96°24′20", Navarro County, Hydrologic Unit 12030109, on fishing pier approximately 1000 ft upstream of dam on left bank on Elm Creek and 4.0 mi southeast of Corsicana, TX.

DRAINAGE AREA.--12.0 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. 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. 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
Top of conservation pool	370.5
Crest of spillway	368.0

COOPERATION.--Capacity table was furnished by the Texas Water Development Board. There was no known diversion from the lake during the current water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,770 acre-ft, Jun 20, 2000, elevation, 365.70 ft; minimum contents, 2,670 acre-ft, Feb 17, 18, 2000, elevation, 361.17 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 4,720 acre-ft, Jun 30, elevation, 365.62 ft; minimum contents, 3,340 acre-ft, Sep 28, 29, 30, elevation, 362.79 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,770 acre-ft, Jun 20, elevation, 365.70 ft; minimum contents, 2,670 acre-ft, Feb 17, 18, elevation, 361.17 ft.

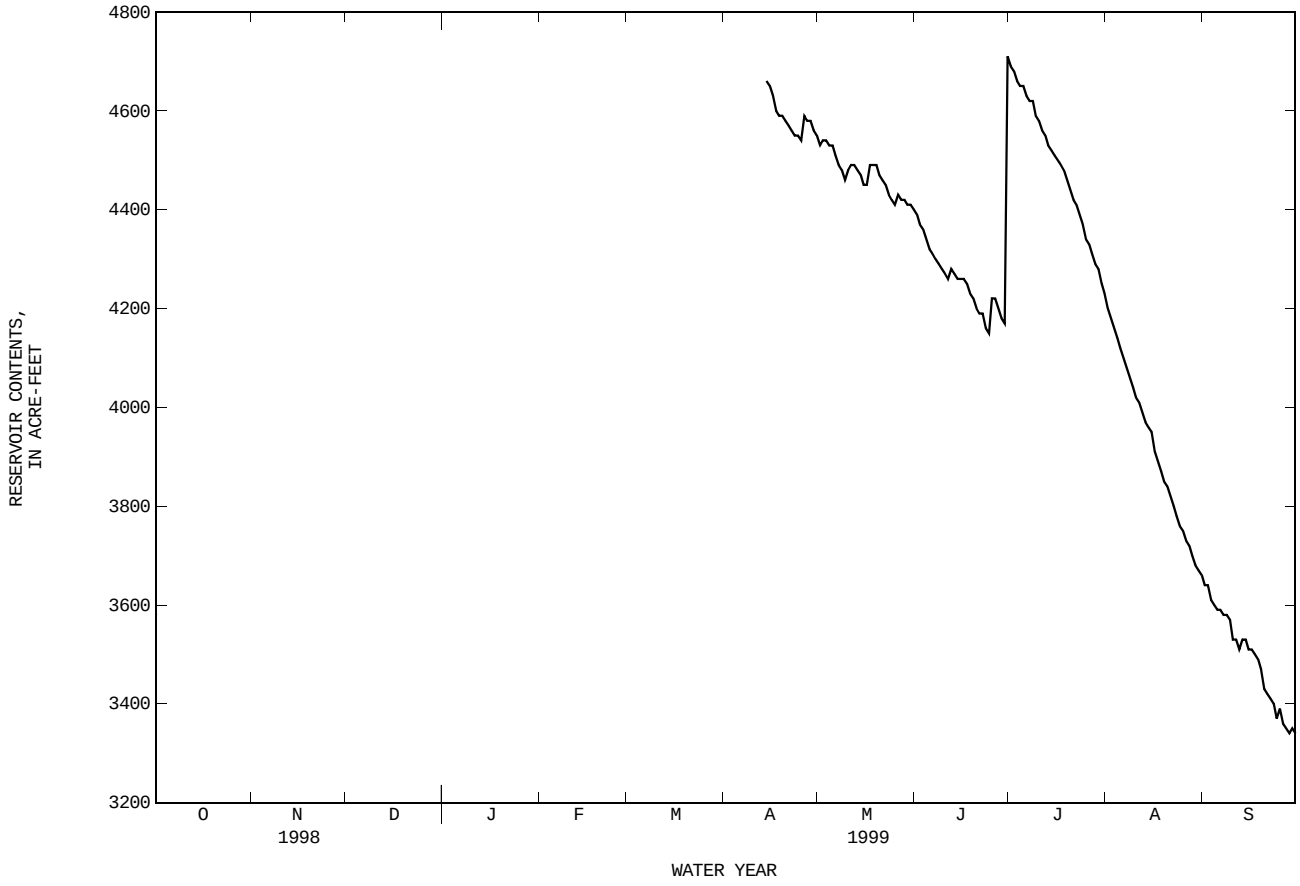
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	4530	4390	4690	4200	3640
2	---	---	---	---	---	---	---	4540	4370	4680	4180	3640
3	---	---	---	---	---	---	---	4540	4360	4660	4160	3610
4	---	---	---	---	---	---	---	4530	4340	4650	4140	3600
5	---	---	---	---	---	---	---	4530	4320	4650	4120	3590
6	---	---	---	---	---	---	---	4510	4310	4630	4100	3590
7	---	---	---	---	---	---	---	4490	4300	4620	4080	3580
8	---	---	---	---	---	---	---	4480	4290	4620	4060	3580
9	---	---	---	---	---	---	---	4460	4280	4590	4040	3570
10	---	---	---	---	---	---	---	4480	4270	4580	4020	3530
11	---	---	---	---	---	---	---	4490	4260	4560	4010	3530
12	---	---	---	---	---	---	---	4490	4280	4550	3990	3510
13	---	---	---	---	---	---	---	4480	4270	4530	3970	3530
14	---	---	---	---	---	---	4660	4470	4260	4520	3960	3530
15	---	---	---	---	---	---	4650	4450	4260	4510	3950	3510
16	---	---	---	---	---	---	4630	4450	4260	4500	3910	3510
17	---	---	---	---	---	---	4600	4490	4250	4490	3890	3500
18	---	---	---	---	---	---	4590	4490	4230	4480	3870	3490
19	---	---	---	---	---	---	4590	4490	4220	4460	3850	3470
20	---	---	---	---	---	---	4580	4470	4200	4440	3840	3430
21	---	---	---	---	---	---	4570	4460	4190	4420	3820	3420
22	---	---	---	---	---	---	4560	4450	4190	4410	3800	3410
23	---	---	---	---	---	---	4550	4430	4160	4390	3780	3400
24	---	---	---	---	---	---	4550	4420	4150	4370	3760	3370
25	---	---	---	---	---	---	4540	4410	4220	4340	3750	3390
26	---	---	---	---	---	---	4590	4430	4220	4330	3730	3360
27	---	---	---	---	---	---	4580	4420	4200	4310	3720	3350
28	---	---	---	---	---	---	4580	4420	4180	4290	3700	3340
29	---	---	---	---	---	---	4560	4410	4170	4280	3680	3350
30	---	---	---	---	---	---	4550	4410	4710	4250	3670	3340
31	---	---	---	---	---	---	---	4400	---	4230	3660	---
MAX	---	---	---	---	---	---	---	4540	4710	4690	4200	3640
MIN	---	---	---	---	---	---	---	4400	4150	4230	3660	3340
(+)							365.28	364.99	365.60	364.65	363.48	362.79
(@)								-150	+310	-480	-570	-320

WTR YR 1999 MAX 4720 MIN 3340

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

08064510 HALBERT LAKE NEAR CORSICANA, TX--Continued



08064510 HALBERT LAKE NEAR CORSICANA, TX--Continued

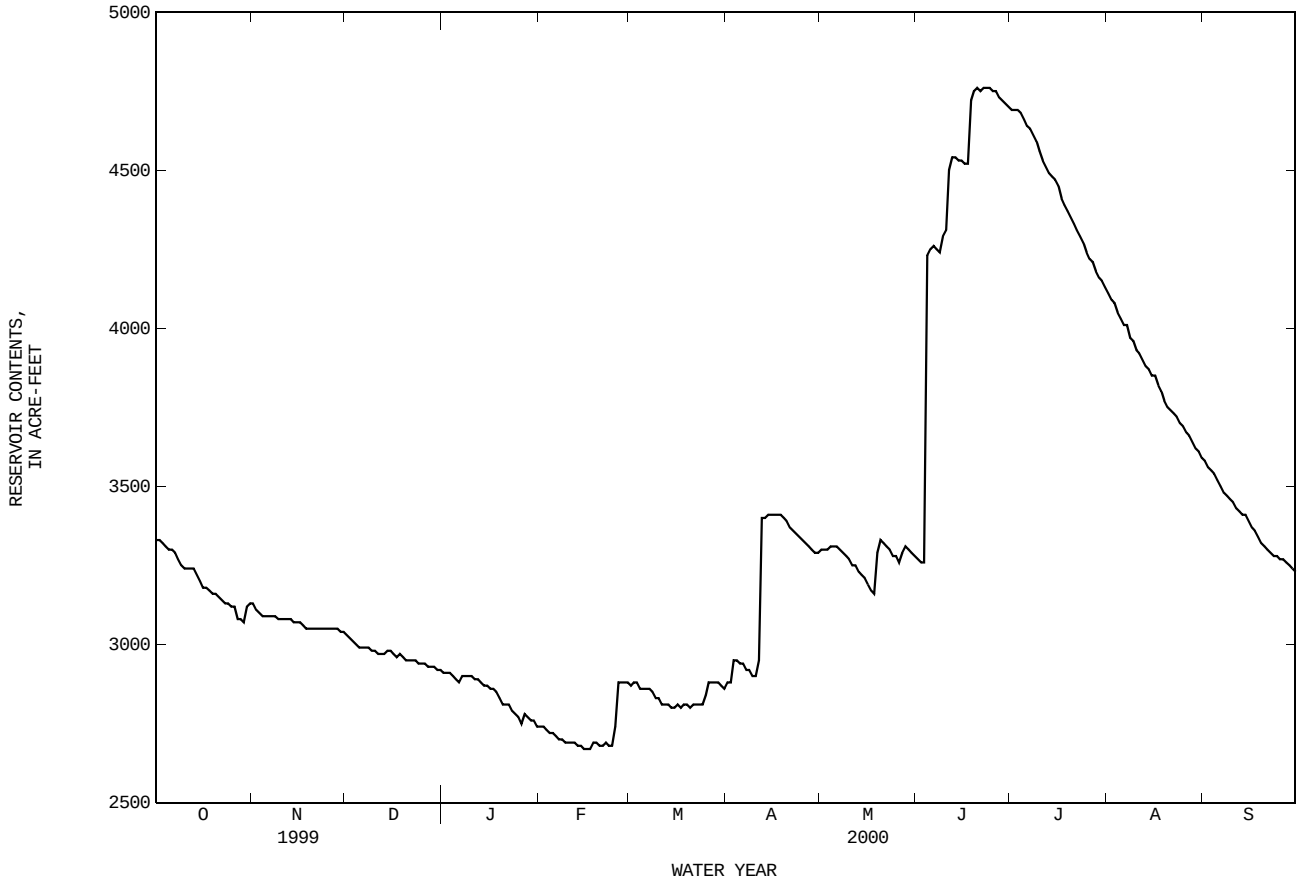
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	3130	3030	2910	2740	2870	2880	3300	3270	4690	4110	3580
2	3330	3110	3020	2910	2740	2880	2880	3300	3260	4690	4090	3560
3	3320	3100	3010	2910	2730	2880	2950	3300	3260	4690	4080	3550
4	3310	3090	3000	2900	2720	2860	2950	3310	4230	4680	4050	3540
5	3300	3090	2990	2890	2720	2860	2940	3310	4250	4660	4030	3520
6	3300	3090	2990	2880	2710	2860	2940	3310	4260	4640	4010	3500
7	3290	3090	2990	2900	2700	2860	2920	3300	4250	4630	4010	3480
8	3270	3090	2990	2900	2700	2850	2920	3290	4240	4610	3970	3470
9	3250	3080	2980	2900	2690	2830	2900	3280	4290	4590	3960	3460
10	3240	3080	2980	2900	2690	2830	2900	3270	4310	4560	3930	3450
11	3240	3080	2970	2890	2690	2810	2950	3250	4500	4530	3920	3430
12	3240	3080	2970	2890	2690	2810	3400	3250	4540	4510	3900	3420
13	3240	3080	2970	2880	2680	2810	3400	3230	4540	4490	3880	3410
14	3220	3070	2980	2870	2680	2800	3410	3220	4530	4480	3870	3410
15	3200	3070	2980	2870	2670	2800	3410	3210	4530	4470	3850	3390
16	3180	3070	2970	2860	2670	2810	3410	3190	4520	4450	3850	3370
17	3180	3060	2960	2860	2670	2800	3410	3170	4520	4410	3820	3360
18	3170	3050	2970	2850	2690	2810	3410	3160	4720	4390	3800	3340
19	3160	3050	2960	2830	2690	2810	3400	3290	4750	4370	3770	3320
20	3160	3050	2950	2810	2680	2800	3390	3330	4760	4350	3750	3310
21	3150	3050	2950	2810	2680	2810	3370	3320	4750	4330	3740	3300
22	3140	3050	2950	2810	2690	2810	3360	3310	4760	4310	3730	3290
23	3130	3050	2950	2790	2680	2810	3350	3300	4760	4290	3720	3280
24	3130	3050	2940	2780	2680	2810	3340	3280	4760	4270	3700	3280
25	3120	3050	2940	2770	2740	2840	3330	3280	4750	4240	3690	3270
26	3120	3050	2940	2750	2880	2880	3320	3260	4750	4220	3670	3270
27	3080	3050	2930	2780	2880	2880	3310	3290	4730	4210	3660	3260
28	3080	3050	2930	2770	2880	2880	3300	3310	4720	4180	3640	3250
29	3070	3040	2930	2760	2880	2880	3290	3300	4710	4160	3620	3240
30	3120	3040	2920	2760	---	2870	3290	3290	4700	4150	3610	3230
31	3130	---	2920	2740	---	2860	---	3280	---	4130	3590	---
MAX	3330	3130	3030	2910	2880	2880	3410	3330	4760	4690	4110	3580
MIN	3070	3040	2920	2740	2670	2800	2880	3160	3260	4130	3590	3230
(+)	362.31	362.09	361.80	361.37	361.71	361.66	362.66	362.65	365.57	364.45	363.34	362.54
(@)	-210	-90	-120	-180	+140	-20	+430	-10	+1420	-570	-540	-360

WTR YR 2000 MAX 4760 MIN 2670 (@) -110

(+) 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.--No estimated daily contents. Records good. 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, 1,198,000 acre-ft, Jun 20, elevation, 316.47 ft; minimum contents, 958,000 acre-ft, Feb 22, Mar 21, 23, elevation, 310.57 ft.

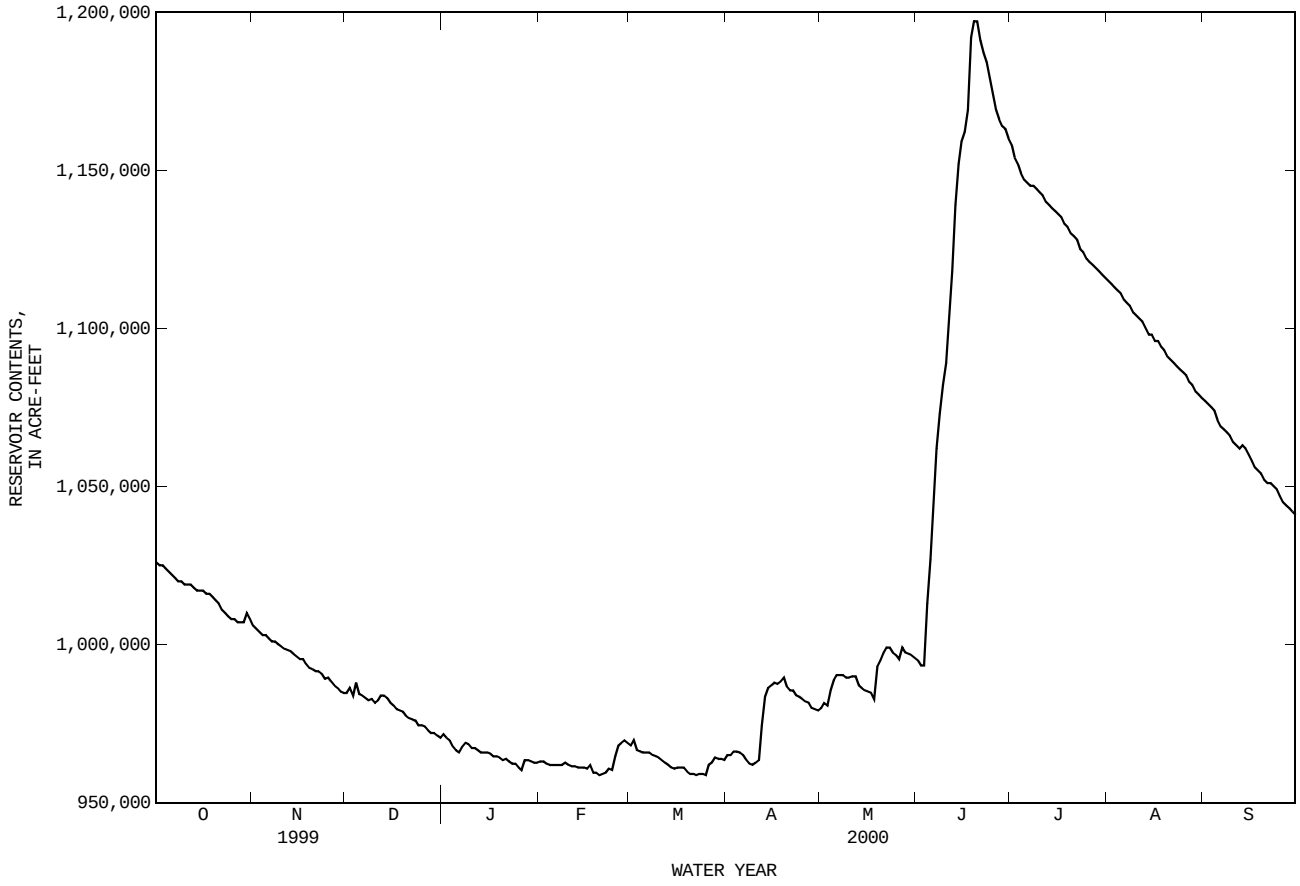
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1026000	1006000	984700	971600	963000	968100	965000	979900	995000	1158000	1115000	1077000
2	1025000	1005000	986300	970500	963000	969700	965000	981500	993400	1154000	1114000	1076000
3	1025000	1004000	983900	969700	962300	966600	966200	980700	993400	1152000	1113000	1075000
4	1024000	1003000	987900	967700	961900	966200	966200	985500	1013000	1149000	1112000	1074000
5	1023000	1003000	984300	966600	961900	965800	965800	988700	1027000	1147000	1111000	1071000
6	1022000	1002000	983900	965800	961900	965800	965000	990300	1046000	1146000	1109000	1069000
7	1021000	1001000	983100	967700	961900	965800	963400	990300	1062000	1145000	1108000	1068000
8	1020000	1001000	982300	968900	961900	965000	962300	990300	1073000	1145000	1107000	1067000
9	1020000	1000000	982700	968500	962600	964600	961900	989500	1082000	1144000	1105000	1066000
10	1019000	999400	981500	967300	961900	964200	962600	989500	1089000	1143000	1104000	1064000
11	1019000	998600	982300	967300	961500	963400	963400	989900	1103000	1142000	1103000	1063000
12	1019000	998200	983900	966600	961500	962600	974400	989900	1118000	1140000	1102000	1062000
13	1018000	997800	983900	965800	961100	961900	983500	987100	1139000	1139000	1100000	1063000
14	1017000	997000	983100	965800	961100	961100	986300	986300	1152000	1138000	1098000	1062000
15	1017000	996200	981500	965800	961100	960700	987100	985500	1159000	1137000	1098000	1060000
16	1017000	995400	980700	965400	960700	961100	987900	985100	1162000	1136000	1096000	1058000
17	1016000	995400	979500	964600	961900	961100	987500	984700	1169000	1135000	1096000	1056000
18	1016000	993800	979100	964600	959500	961100	988300	982700	1192000	1133000	1094000	1055000
19	1015000	992600	978700	964200	959500	959900	989500	993000	1197000	1132000	1093000	1054000
20	1014000	992200	977500	963400	958700	959100	986700	995000	1197000	1130000	1091000	1052000
21	1013000	991500	976700	963800	959100	959100	985500	997400	1191000	1129000	1090000	1051000
22	1011000	991500	976300	963000	959500	958700	985500	999000	1187000	1128000	1089000	1051000
23	1010000	990700	976000	962300	960700	959100	983900	999000	1184000	1125000	1088000	1050000
24	1009000	989100	974400	962300	960300	959100	983500	997400	1179000	1124000	1087000	1049000
25	1008000	989500	974400	961100	964600	958700	982700	996600	1174000	1122000	1086000	1047000
26	1008000	988300	974000	960300	968100	961900	981900	995400	1169000	1121000	1085000	1045000
27	1007000	987100	972800	963400	968900	962600	981500	999000	1166000	1120000	1083000	1044000
28	1007000	986300	972000	963400	969700	964200	979900	997400	1164000	1119000	1082000	1043000
29	1007000	985100	972000	963000	968900	963800	979500	997000	1163000	1118000	1080000	1042000
30	1010000	984700	971200	962600	---	963800	979100	996600	1160000	1117000	1079000	1041000
31	1008000	---	970500	962600	---	963400	---	995800	---	1116000	1078000	---
MAX	1026000	1006000	987900	971600	969700	969700	989500	999000	1197000	1158000	1115000	1077000
MIN	1007000	984700	970500	960300	958700	958700	961900	979900	993400	1116000	1078000	1041000
(+)	311.84	311.25	310.89	310.69	310.85	310.71	311.11	311.53	315.57	314.49	313.57	312.66
(@)	-15000	-23300	-14200	-7900	+6300	-5500	+15700	+16700	+164200	-44000	-38000	-37000

CAL YR 1999 MAX 1200000 MIN 970500 (@) -173500
WTR YR 2000 MAX 1197000 MIN 958700 (@) +18000

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

08064550 RICHLAND-CHAMBERS RESERVOIR NEAR KERENS, TX--Continued



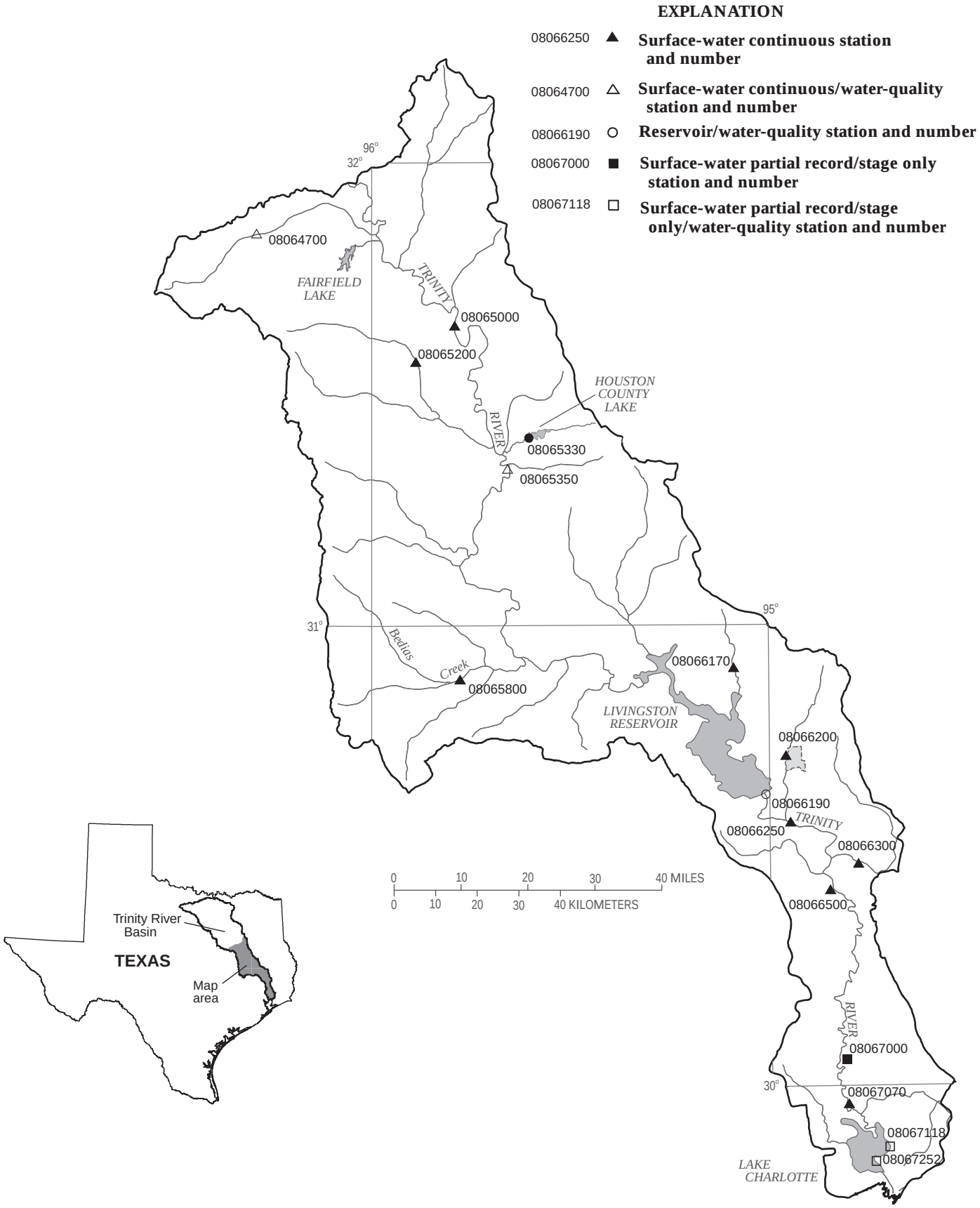


Figure 5.-- Map showing location of gaging stations in the third section of the Trinity River Basin

08064700 Tehuacana Creek near Streetman, TX 316
08065000 Trinity River near Oakwood, TX 320
08065200 Upper Keechi Creek near Oakwood, TX 322
08065330 Houston County Lake near Corckett, TX 324
08065350 Trinity River near Crockett, TX 328
08065800 Bedias Creek near Madisonville, TX 338
08066170 Kickapoo Creek near Onalaska, TX 340
08066190 Livingston Reservoir near Goodrich, TX 342
08066200 Long King Creek at Livingston, TX 352
08066250 Trinity River near Goodrich, TX 354
08066300 Menard Creek near Rye, TX 356
08066500 Trinity River at Romayor, TX 358
08067000 Trinity River at Liberty, TX 360
08067070 CWA Canal near Dayton, TX 362
08067118 Lake Charlotte near Anahuac, TX 364
08067252 Trinity River at Wallisville, TX 370

08064700 TEHUACANA CREEK NEAR STREETMAN, TX

LOCATION.--Lat 31°50′46", long 96°17′37", Freestone County, Hydrologic Unit 12030201, at left end of upstream bridge on Interstate Highway 45, 2.8 mi southeast of Streetman, 2.9 mi downstream from Chicago, Rock Island, and Pacific Railroad Co. bridge, 4.0 mi upstream from Caney Creek, and 24.8 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 280.13 ft above sea level. Prior to Dec 14, 1993, at site 0.2 mi downstream at datum 7.45 ft higher. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Sep 1932 reached a stage of about 24 ft at site and datum 0.2 mi downstream from information by Texas Department of Transportation.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	0530	8,480	32.91	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.02	.00	.50	.43	.69	.61	.08	3.6	2.5	.32	.00
2	.24	.01	.00	.79	.43	.65	.60	.98	3.4	2.4	.28	.00
3	.24	.00	.00	.77	.43	.70	3.4	1.9	3.2	2.3	.25	.00
4	.23	.00	.00	.73	.43	.58	23	883	841	2.4	.20	.00
5	.23	.00	.00	.69	.42	.58	5.6	4660	652	2.2	.18	.00
6	.22	.00	.00	.60	.42	.53	2.0	659	83	2.1	.16	.00
7	.22	.00	.00	.49	.42	.48	1.1	63	32	2.0	.13	.00
8	.21	.00	.00	.46	.42	.44	.67	28	13	1.9	.11	.00
9	.20	.00	.00	.44	.42	.40	.45	18	7.9	1.8	.10	.00
10	.20	.00	.00	.43	.44	.37	.36	12	7.1	1.7	.08	.00
11	.17	.00	.00	.43	.45	.34	.34	9.5	555	1.7	.07	.00
12	.16	.00	.00	.43	.45	.32	122	8.8	1320	1.6	.07	.00
13	.15	.00	.00	.43	.45	.31	159	5.9	111	1.5	.04	.00
14	.14	.00	.00	.42	.45	.29	21	4.9	40	1.4	.03	.00
15	.14	.00	.00	.42	.45	.27	4.8	4.6	16	1.3	.02	.00
16	.13	.00	.00	.42	.46	.26	2.2	4.4	9.5	1.3	.00	.00
17	.13	.00	.00	.41	.46	.25	1.4	4.1	24	1.1	.00	.00
18	.12	.00	.00	.44	.46	.24	.95	3.9	371	1.0	.00	.00
19	.11	.00	.00	.44	.45	.23	.73	9.7	654	.95	.00	.00
20	.10	.00	.00	.44	.45	.22	.68	141	97	.86	.00	.00
21	.10	.00	.00	.44	.44	.21	.52	62	36	.80	.00	.00
22	.09	.00	.00	.43	.43	.21	.44	20	14	.76	.00	.00
23	.09	.00	.00	.43	.43	.21	.41	10	7.5	.70	.00	.00
24	.08	.00	.00	.43	.42	.20	.32	6.9	5.1	.66	.00	.00
25	.08	.00	.00	.43	.42	.20	.19	5.3	4.6	.62	.00	.00
26	.07	.00	.00	.43	.43	1.0	.14	4.6	3.9	.55	.00	.00
27	.06	.00	.00	.43	2.0	27	.11	6.0	3.4	.51	.00	.00
28	.06	.00	.00	.43	1.5	6.9	.10	6.9	3.2	.46	.00	.00
29	.05	.00	.00	.43	.95	2.2	.09	5.0	5.4	.40	.00	.00
30	.03	.00	.00	.43	---	1.2	.08	4.6	2.9	.38	.00	.00
31	.02	---	.00	.43	---	.77	---	3.9	---	.35	.00	---
TOTAL	4.30	0.03	0.00	14.92	15.81	48.25	353.29	6657.96	4929.7	40.20	2.04	0.00
MEAN	.14	.001	.000	.48	.55	1.56	11.8	215	164	1.30	.066	.000
MAX	.24	.02	.00	.79	2.0	27	159	4660	1320	2.5	.32	.00
MIN	.02	.00	.00	.41	.42	.20	.08	.08	2.9	.35	.00	.00
AC-FT	8.5	.06	.00	30	31	96	701	13210	9780	80	4.0	.00
CFSM	.00	.00	.00	.00	.00	.01	.08	1.51	1.16	.01	.00	.00
IN.	.00	.00	.00	.00	.00	.01	.09	1.74	1.29	.01	.00	.00

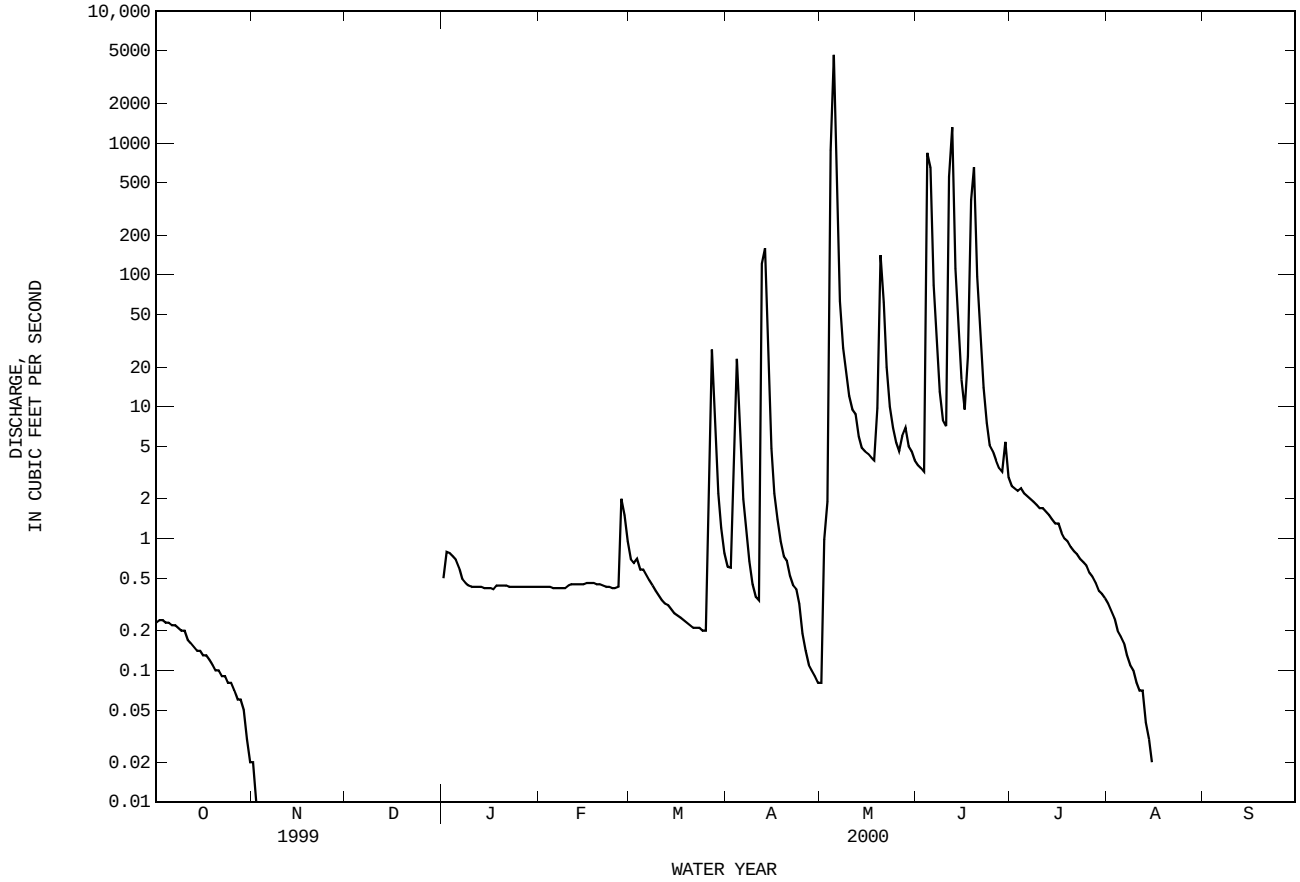
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	57.3	56.0	132	76.2	154	120	102	229	73.5	3.76	15.1	28.5
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	.000	.000	.000	.12	.45	.25	.000	.020	.040	.000	.000	.000
(WY)	1981	1981	2000	1971	1996	1996	1971	1971	1996	1978	1969	1980

08064700 TEHUACANA CREEK NEAR STREETMAN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	38572.67		12066.50			
ANNUAL MEAN	106		33.0		85.6	
HIGHEST ANNUAL MEAN					274	1989
LOWEST ANNUAL MEAN					3.52	1996
HIGHEST DAILY MEAN	5480	Jan 29	4660	May 5	42000	May 4 1989
LOWEST DAILY MEAN	.00	Nov 3	.00	Nov 3	.00	Sep 30 1968
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 3	.00	Nov 3	.00	Sep 30 1968
INSTANTANEOUS PEAK FLOW			8480	May 5	g85700	May 17 1989
INSTANTANEOUS PEAK STAGE			32.91	May 5	33.93	Nov 13 1998
ANNUAL RUNOFF (AC-FT)	76510		23930		61990	
ANNUAL RUNOFF (CFSM)	.74		.23		.60	
ANNUAL RUNOFF (INCHES)	10.10		3.16		8.19	
10 PERCENT EXCEEDS	202		8.2		55	
50 PERCENT EXCEEDS	1.0		.41		1.6	
90 PERCENT EXCEEDS	.00		.00		.00	

g At site and datum then in use.



PERIOD OF RECORD.--
CHEMICAL DATA: Feb 1968 to Sep 1985, Oct 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)
JAN											
06...	1115	.60	2690	8.0	8.0	7.6	9.3	80	1.5	660	340
MAR											
16...	0950	.26	2190	8.0	17.0	9.5	7.8	82	3.4	560	290
AUG											
09...	0900	.10	1540	7.7	28.0	1.2	2.8	36	.9	370	120

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	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)
JAN										
06...	130	77	298	5	6.7	310	350	520	.53	5.3
MAR										
16...	120	63	268	5	5.6	270	310	370	.49	2.9
AUG										
09...	88	37	163	4	7.3	250	190	240	.45	9.2

DATE	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)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
06...	1700	1580	11	<.010	<.050	<.020	.50	<.050	.012	.04
MAR										
16...	1400	1300	22	<.010	<.050	<.020	.51	<.050	<.010	--
AUG										
09...	934	879	<10	<.010	<.050	<.020	.48	<.050	<.010	--

DATE	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)	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)
JAN										
06...	9.6	--	--	--	--	--	--	--	--	--
MAR										
16...	10	10	<1.0	2	135	<1.0	<1.0	<1.0	<1.0	5.1
AUG										
09...	7.7	1.3	<1.0	3	144	<1.0	<1.0	<.80	<1.0	1.4

DATE	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)
JAN										
06...	23	--	137	--	--	--	--	--	--	--
MAR										
16...	43	<1.0	351	<.2	1.3	2.2	<2	<1.0	16	5.7
AUG										
09...	E7.4	<1.0	231	<.2	1.5	3.7	<2	<1.0	2.6	5.8

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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 Sep 1924 (monthly discharge only), Oct 1924 to current year. Records of Jan 1905 to Sep 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 Sep 1981. Specific conductance: Dec 1976 to Sep 1981. Water temperature: Dec 1976 to Sep 1981. Suspended sediment data: Dec 1976 to Sep 1981.

REVISED RECORDS.--WSP 1442: 1934. See also PERIOD OF RECORD. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M,m).

GAGE.--Water-stage recorder. Datum of gage is 175.06 ft above sea level. Prior to Jul 1932, nonrecording gage at site 1.5 mi downstream at datum 1.06 ft lower. Jul 15, 1932, to Oct 7, 1934, nonrecording gage at present site and 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 by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Twenty additional upstream reservoirs with a combined capacity of 5,250,000 acre-ft. Streamflow is affected at times by discharge from the flood-detention pools of 252 floodwater-retarding structures with a combined detention capacity of 183,300 acre-ft. 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 Big Brown Lake is used to maintain the normal pool elevation for that lake. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 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 Jun 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	936	1020	1060	1070	2280	4010	5410	1060	1520	7580	885	783
2	851	2470	1000	1080	1760	2450	4350	1130	1300	5750	879	754
3	847	3340	992	1070	1530	1730	3000	1870	1190	4070	885	766
4	826	2470	991	1030	1390	1520	2410	5740	1270	3310	884	803
5	805	1680	1050	1110	1300	1500	2740	7890	2060	2570	875	823
6	798	1280	1060	1110	1250	1870	2460	8610	7050	2280	879	819
7	784	1090	1300	1150	1210	1910	1940	9260	11000	1890	879	784
8	824	1020	1550	1290	1240	1570	1600	8030	12700	1390	871	785
9	850	993	1340	1230	1350	1370	1430	5790	13600	1280	844	813
10	872	974	1140	1550	1300	1320	1330	3270	13300	1240	850	788
11	850	941	1080	3060	1180	1300	1250	2140	10200	1190	867	791
12	884	943	1720	2990	1130	1320	1680	1780	7300	1150	870	793
13	1120	923	2170	2080	1110	1950	2570	1600	8740	1110	862	801
14	1110	907	4410	1540	1080	2260	6410	1490	11500	1080	852	835
15	969	910	8230	1340	1080	1900	7580	1410	12900	1040	829	1070
16	912	915	8810	1250	1100	1520	5680	1320	14000	1020	830	1240
17	898	889	5880	1200	1130	1380	3290	1210	14800	998	e824	1070
18	888	900	2880	1150	1120	1370	2700	1120	15300	997	e820	982
19	895	889	1740	1110	1060	1350	4050	1170	15900	1000	e816	916
20	924	901	1690	1090	1050	1350	3770	1780	16800	1040	e810	889
21	1040	922	2790	1100	1070	1240	2450	4520	17600	1010	e806	906
22	1620	925	2530	1100	1080	1280	1710	7640	18400	986	e802	896
23	1820	955	1820	1090	1090	1250	1430	7420	19100	968	e806	879
24	1430	958	1450	1080	1100	1760	1270	4750	19700	936	e804	888
25	1150	1770	1280	1090	1880	2890	1180	2810	19700	911	e802	895
26	1010	3510	1190	1060	5060	2780	1120	2080	18500	919	e812	900
27	948	2810	1140	1050	5540	2160	1080	1750	15200	915	e830	933
28	920	1840	1110	1100	4610	2000	1050	1580	10500	905	839	1030
29	914	1330	1060	1130	5100	2520	1010	1480	7430	933	816	1000
30	882	1160	1070	1790	---	2620	996	1480	7100	917	789	928
31	934	---	1080	2710	---	3620	---	1660	---	900	795	---
TOTAL	30511	41635	66613	42800	52180	59070	78946	104840	345660	52285	26012	26560
MEAN	984	1388	2149	1381	1799	1905	2632	3382	11520	1687	839	885
MAX	1820	3510	8810	3060	5540	4010	7580	9260	19700	7580	885	1240
MIN	784	889	991	1030	1050	1240	996	1060	1190	900	789	754
AC-FT	60520	82580	132100	84890	103500	117200	156600	208000	685600	103700	51590	52680

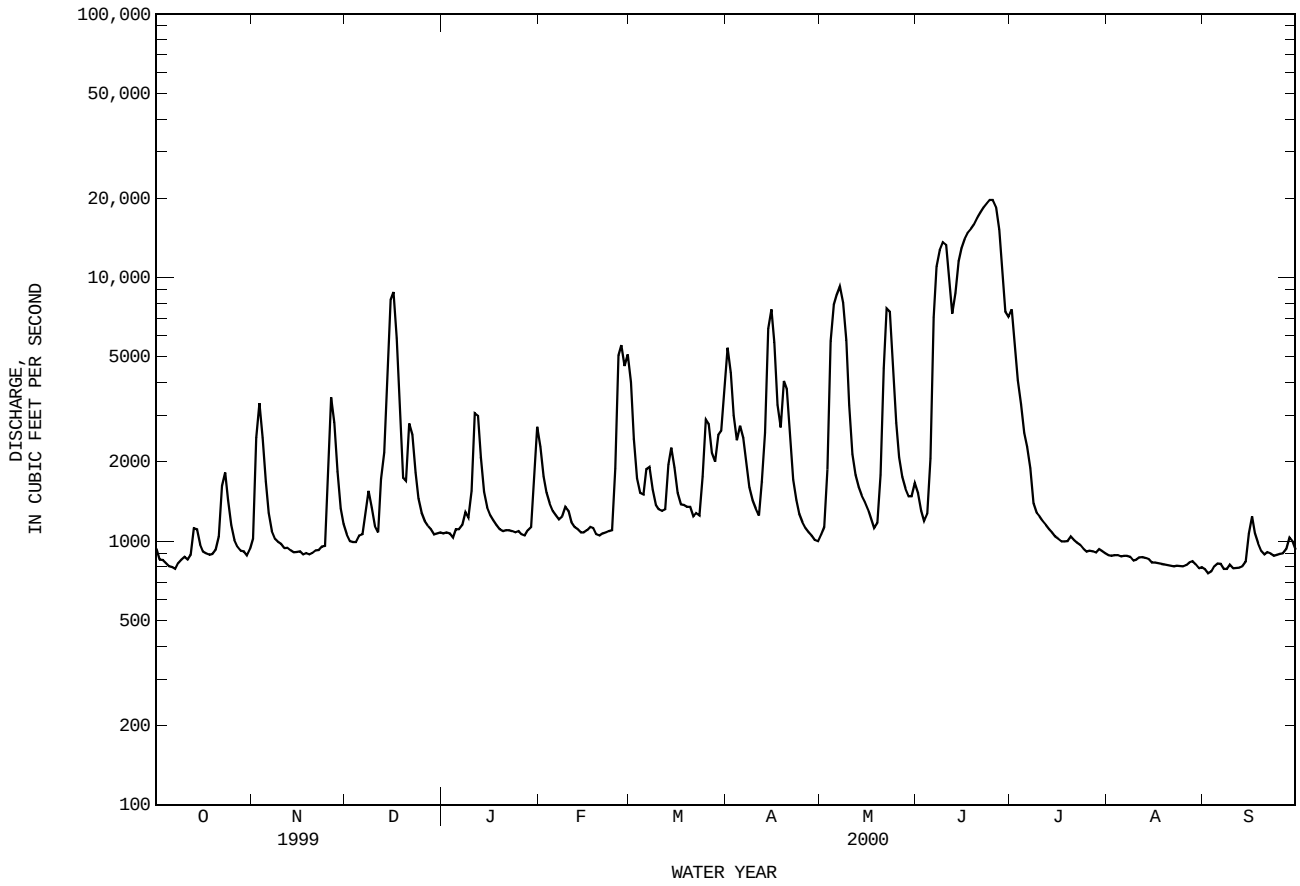
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	2455	3643	5103	5162	6278	7456	7581	11500	7933	2728	1257	1437
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	1378703		927112			
ANNUAL MEAN	3777		2533		5203	
HIGHEST ANNUAL MEAN					15240	1992
LOWEST ANNUAL MEAN					657	1925
HIGHEST DAILY MEAN	42800	Feb 3	19700	Jun 24	153000	Apr 29 1942
LOWEST DAILY MEAN	756	Aug 11	754	Sep 2	28	Nov 1 1924
ANNUAL SEVEN-DAY MINIMUM	769	Aug 9	787	Aug 29	38	Aug 19 1925
INSTANTANEOUS PEAK FLOW			19900	Jun 24	153000	Apr 29 1942
INSTANTANEOUS PEAK STAGE			32.69	Jun 24	51.64	Apr 29 1942
ANNUAL RUNOFF (AC-FT)	2735000		1839000		3770000	
10 PERCENT EXCEEDS	8330		6040		14800	
50 PERCENT EXCEEDS	1760		1180		1470	
90 PERCENT EXCEEDS	829		842		304	

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 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: Jun 1962 to Apr 1964, Nov 1967 to Sep 1975.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 240.11 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, about 21 ft in 1932, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	1100	4,850	14.23	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	2.4	8.5	7.1	14	14	15	e126	13	5.8	.00	.00
2	.07	1.9	8.3	7.3	13	12	17	e954	11	4.7	.00	.00
3	.08	4.1	8.4	8.0	13	11	122	e1900	9.8	3.3	.00	.00
4	.11	2.9	8.6	8.5	12	9.7	123	e3500	38	2.6	.00	.00
5	.12	2.7	9.7	7.8	11	9.1	64	4080	174	2.5	.00	.00
6	.15	2.8	9.9	7.6	11	8.9	27	1650	217	1.6	.00	.00
7	.11	3.3	7.6	12	11	9.4	17	911	70	1.3	.00	.00
8	.14	3.4	7.5	59	9.8	9.5	12	245	27	1.3	.00	.00
9	.13	3.2	6.6	73	9.3	9.8	9.8	e77	19	1.0	.00	.00
10	.17	3.2	5.9	41	9.8	10	8.8	e45	21	.77	.00	.00
11	.12	3.7	6.5	21	10	12	8.7	e32	47	.56	.00	.00
12	.10	4.1	19	16	9.9	13	95	26	165	.39	.00	.00
13	.08	4.9	36	14	9.7	12	175	23	97	.37	.00	.00
14	.09	5.5	34	12	9.6	10	191	19	38	.39	.00	.00
15	.10	5.9	17	10	8.7	9.9	57	16	23	.26	.00	.00
16	.09	5.9	10	9.8	8.5	9.9	27	15	17	.11	.00	.00
17	.13	6.2	6.9	9.7	9.0	23	19	13	13	.06	.00	.00
18	.13	5.8	6.3	9.8	10	33	15	12	17	.04	.00	.00
19	.06	5.7	6.1	9.7	15	22	13	92	84	.04	.00	.00
20	.04	5.9	6.8	9.4	15	18	11	431	148	.03	.00	.00
21	.06	5.9	7.8	8.2	13	16	9.7	266	166	.02	.00	.00
22	.07	6.3	8.0	7.9	11	41	8.4	71	119	.02	.00	.00
23	.11	6.8	7.1	8.1	17	27	7.9	35	24	.02	.00	.00
24	.14	6.7	6.6	7.9	21	17	7.6	25	13	.01	.00	.00
25	.20	7.4	7.0	7.6	16	14	7.9	21	8.2	.02	.00	.00
26	.25	8.2	6.9	7.7	e13	16	6.9	18	6.4	.01	.00	.00
27	.33	8.7	6.7	8.8	e10	26	6.0	16	5.1	.00	.00	.00
28	.40	8.5	6.3	14	e15	25	5.4	19	4.1	.00	.00	.00
29	.46	8.3	6.6	18	e16	43	4.6	27	11	.00	.00	.00
30	2.0	8.4	7.1	18	---	48	4.4	23	15	.00	.00	.00
31	.67	---	7.3	15	---	21	---	16	---	.00	.00	---
TOTAL	6.76	158.7	307.0	473.9	351.3	560.2	1096.1	14704	1620.6	27.22	0.00	0.00
MEAN	.22	5.29	9.90	15.3	12.1	18.1	36.5	474	54.0	.88	.000	.000
MAX	2.0	8.7	36	73	21	48	191	4080	217	5.8	.00	.00
MIN	.04	1.9	5.9	7.1	8.5	8.9	4.4	12	4.1	.00	.00	.00
AC-FT	13	315	609	940	697	1110	2170	29170	3210	54	.00	.00
CFSM	.00	.04	.07	.10	.08	.12	.24	3.16	.36	.01	.00	.00
IN.	.00	.04	.08	.12	.09	.14	.27	3.65	.40	.01	.00	.00

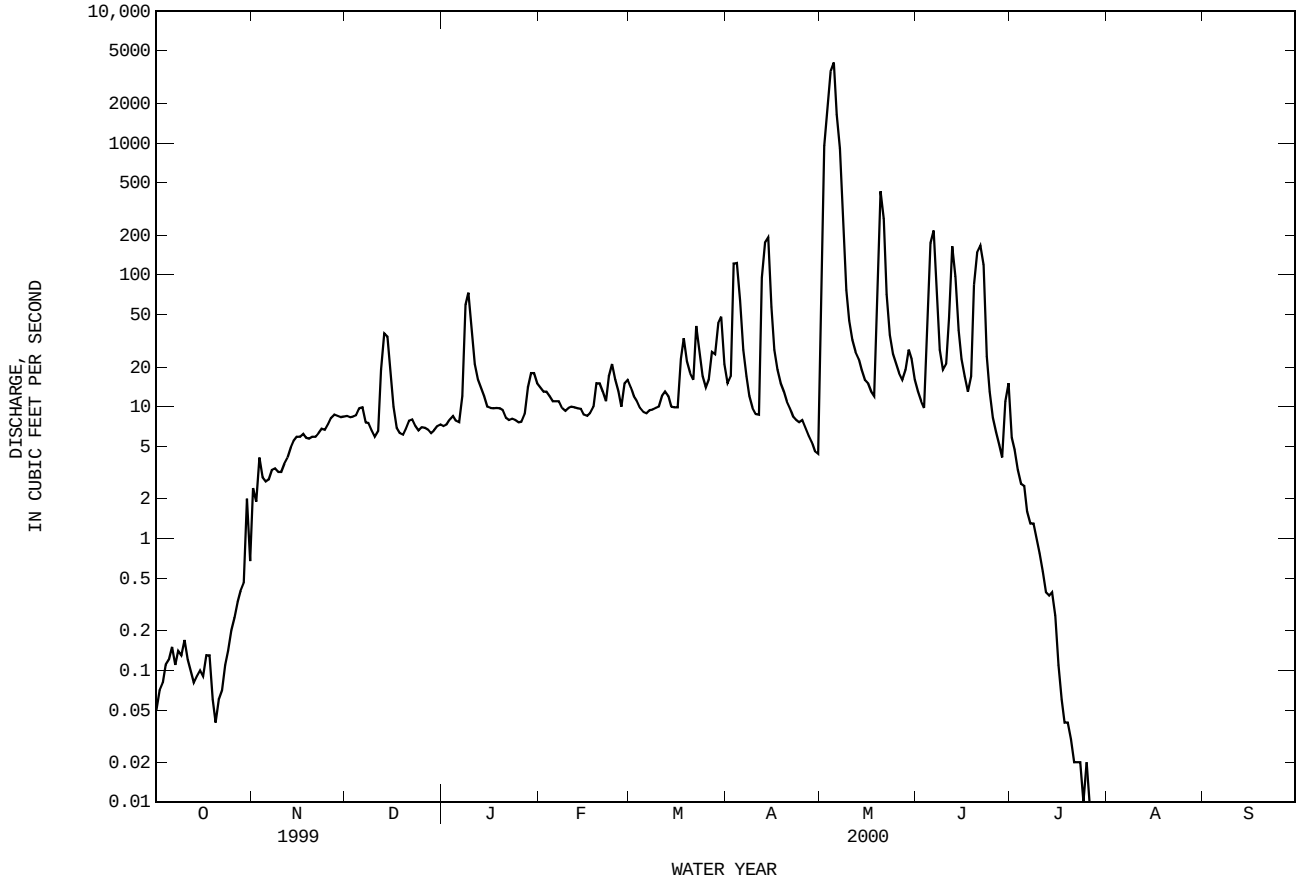
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	44.9	49.2	106	108	123	122	117	142	67.2	12.5	5.62	14.1
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	.000	.000	.36	4.03	8.28	8.79	8.41	1.82	.48	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1996	1971	1972	1963	1964	1963	1963

08065200 UPPER KEECHI CREEK NEAR OAKWOOD, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	28920.15		19305.78			
ANNUAL MEAN	79.2		52.7		76.1	
HIGHEST ANNUAL MEAN					168	1965
LOWEST ANNUAL MEAN					4.52	1963
HIGHEST DAILY MEAN	11500	Jan 29	4080	May 5	11500	Jan 29 1999
LOWEST DAILY MEAN	.00	Aug 16	.00	Jul 27	.00	Aug 5 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 21	.00	Jul 27	.00	Aug 5 1962
INSTANTANEOUS PEAK FLOW			4850	May 5	24000	May 16 1965
INSTANTANEOUS PEAK STAGE			14.23	May 5	15.69	Jan 29 1999
ANNUAL RUNOFF (AC-FT)	57360		38290		55130	
ANNUAL RUNOFF (CFSM)	.53		.35		.51	
ANNUAL RUNOFF (INCHES)	7.17		4.79		6.89	
10 PERCENT EXCEEDS	79		41		127	
50 PERCENT EXCEEDS	8.5		7.9		11	
90 PERCENT EXCEEDS	.03		.00		.07	

e Estimated



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 sea level. 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 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. In 2000, levels were used to determine elevations from sea level datum. The reference elevation was found to differ from the Texas Water Development Board published value by -0.60 ft. Conservation pool storage is 17,113 acre-ft. Data regarding the dam and lake 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	261.6
Lowest gated outlet	234.0

COOPERATION.--The capacity table was obtained from Texas Water Development Board Report 126, "Engineering Data on Dams and Reservoirs in Texas", Part II, Nov 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 19,770 acre-ft, May 5, 2000, gage height, 261.77 ft; minimum contents, 15,690 acre-ft, Sep 24, 2000, gage height, 258.34 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,080 acre-ft, Jun 26, elevation, 261.19 ft; minimum contents, 16,680 acre-ft, Sep 28, elevation, 259.17 ft.

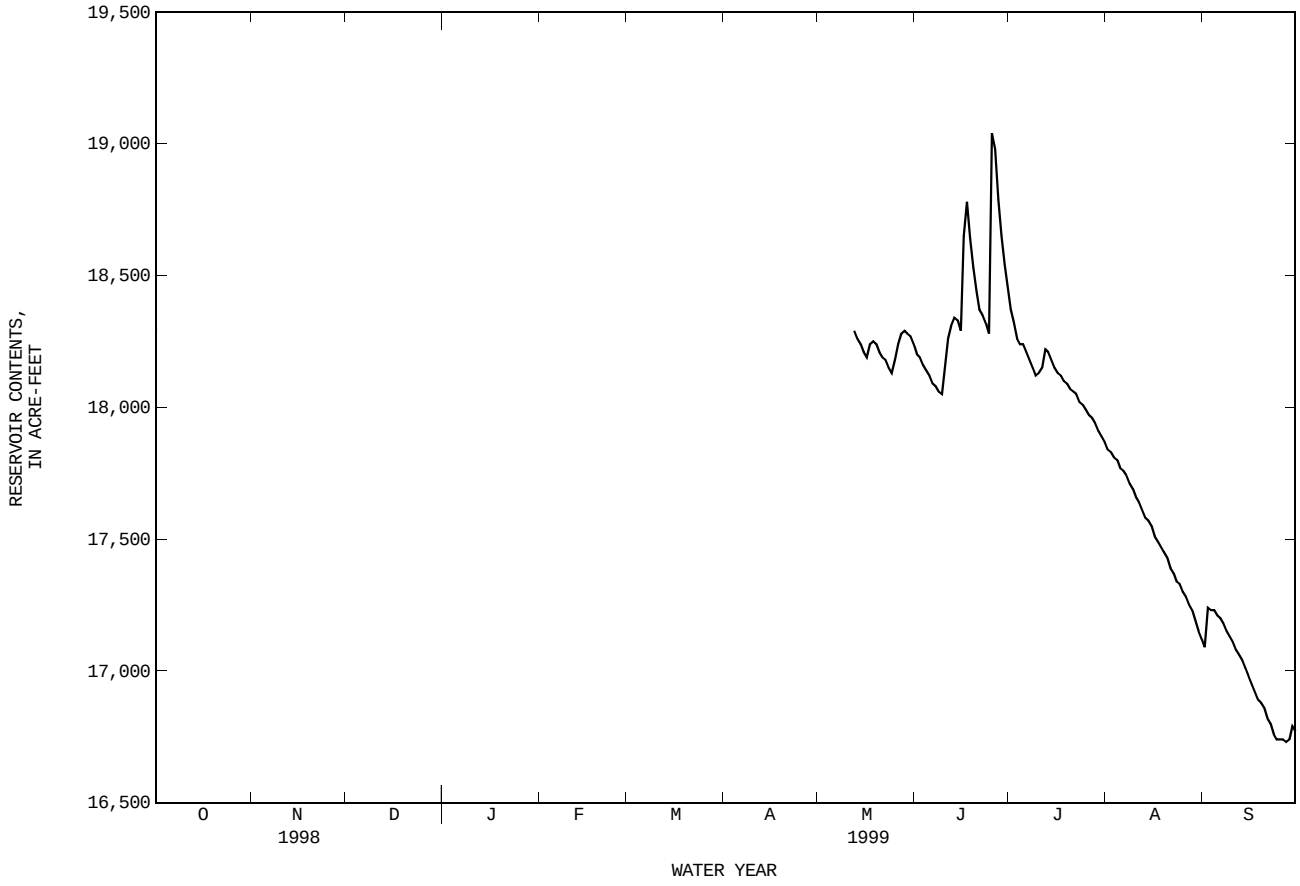
EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,770 acre-ft, May 5, elevation, 261.77 ft; minimum contents, 15,690 acre-ft, Sep 24, elevation, 258.34 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	18200	18370	17840	17090
2	---	---	---	---	---	---	---	---	18190	18320	17830	17240
3	---	---	---	---	---	---	---	---	18160	18260	17810	17230
4	---	---	---	---	---	---	---	---	18140	18240	17800	17230
5	---	---	---	---	---	---	---	---	18120	18240	17770	17210
6	---	---	---	---	---	---	---	---	18090	18210	17760	17200
7	---	---	---	---	---	---	---	---	18080	18180	17740	17180
8	---	---	---	---	---	---	---	---	18060	18150	17710	17150
9	---	---	---	---	---	---	---	---	18050	18120	17690	17130
10	---	---	---	---	---	---	---	---	18160	18130	17660	17110
11	---	---	---	---	---	---	---	---	18260	18150	17640	17080
12	---	---	---	---	---	---	---	18290	18310	18220	17610	17060
13	---	---	---	---	---	---	---	18260	18340	18210	17580	17040
14	---	---	---	---	---	---	---	18240	18330	18180	17570	17010
15	---	---	---	---	---	---	---	18210	18290	18150	17550	16980
16	---	---	---	---	---	---	---	18190	18650	18130	17510	16950
17	---	---	---	---	---	---	---	18240	18780	18120	17490	16920
18	---	---	---	---	---	---	---	18250	18640	18100	17470	16890
19	---	---	---	---	---	---	---	18240	18530	18090	17450	16880
20	---	---	---	---	---	---	---	18210	18440	18070	17430	16860
21	---	---	---	---	---	---	---	18190	18370	18060	17390	16820
22	---	---	---	---	---	---	---	18180	18350	18050	17370	16800
23	---	---	---	---	---	---	---	18150	18320	18020	17340	16760
24	---	---	---	---	---	---	---	18130	18280	18010	17330	16740
25	---	---	---	---	---	---	---	18180	19040	17990	17300	16740
26	---	---	---	---	---	---	---	18240	18980	17970	17280	16740
27	---	---	---	---	---	---	---	18280	18790	17960	17250	16730
28	---	---	---	---	---	---	---	18290	18650	17940	17230	16740
29	---	---	---	---	---	---	---	18280	18540	17910	17190	16790
30	---	---	---	---	---	---	---	18270	18460	17890	17150	16770
31	---	---	---	---	---	---	---	18240	---	17870	17120	---
MAX	---	---	---	---	---	---	---	---	19040	18370	17840	17240
MIN	---	---	---	---	---	---	---	---	18050	17870	17120	16730
(+)								260.48	260.67	260.17	259.54	259.25
(@)									+220	-590	-750	-350

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

08065330 HOUSTON COUNTY LAKE NEAR CROCKETT, TX--Continued



08065330 HOUSTON COUNTY LAKE NEAR CROCKETT, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

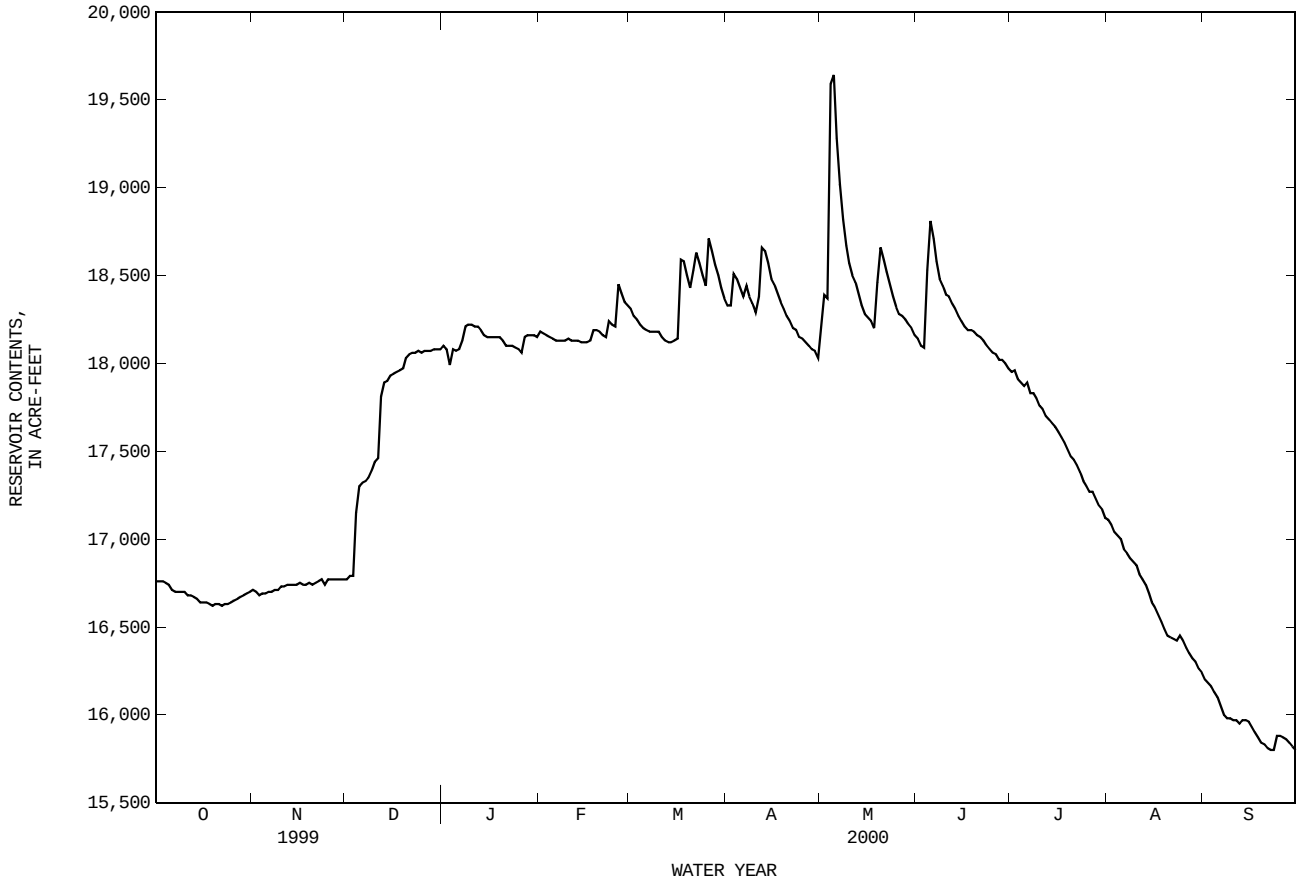
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16760	16710	16770	18100	18180	18310	18330	18210	18140	17950	17110	16200
2	16760	16700	16790	18080	e18170	18270	18330	18390	18100	17960	17080	16180
3	16760	16680	16790	17990	e18160	18250	18510	18370	18090	17910	17040	16160
4	16750	16690	17150	18080	18150	18220	18480	19590	18530	17890	17020	16130
5	16740	16690	17300	18070	18140	18200	18430	19640	18810	17870	17000	16100
6	16710	16700	17320	18080	18130	18190	18380	19280	18710	17890	16940	16050
7	16700	16700	17330	18130	18130	18180	18440	19020	18580	17830	16920	16000
8	16700	16710	17350	18210	18130	18180	18380	18820	18480	17830	16890	15980
9	16700	16710	17390	18220	18130	18180	18340	18670	18440	17800	16870	15980
10	16700	16730	17440	18220	18140	18180	18290	18570	18390	17760	16850	15970
11	16680	16730	17460	18210	18130	18150	18380	18500	18380	17740	16800	15970
12	16680	16740	17810	18210	18130	18130	18660	18460	18340	17700	16770	15950
13	16670	16740	17890	18190	18130	18120	18640	18390	18310	17680	16740	15970
14	16660	16740	17900	18160	18120	18120	18570	18330	18270	17660	16690	15970
15	16640	16740	17930	18150	18120	18130	18480	18280	18240	17640	e16640	15960
16	16640	16750	17940	18150	18120	18140	18450	18260	18210	17610	e16610	e15930
17	16640	16740	17950	18150	18130	18590	18400	18240	18190	17580	e16570	e15900
18	16630	16740	17960	18150	18190	18580	18350	18200	18190	17550	e16530	e15870
19	16620	16750	17970	18150	18190	18500	18310	18460	18180	17510	e16490	e15840
20	16630	16740	18030	18130	18180	18430	18270	18660	18160	17470	e16450	e15830
21	16630	16750	18050	18100	18160	18530	18240	18590	18150	17450	e16440	15810
22	16620	16760	18060	18100	18150	18630	18200	18520	18130	17420	e16430	15800
23	16630	16770	18060	18100	18240	18570	18190	18450	18100	17380	16420	15800
24	e16630	16740	18070	18090	18220	18500	18150	18380	18080	17330	16450	15880
25	e16640	16770	18060	18080	18210	18440	18140	18320	18060	17300	16420	15880
26	e16650	16770	18070	18060	18450	18710	18120	18280	18050	17270	16380	15870
27	e16660	16770	18070	18150	18400	18640	18100	18270	18020	17270	16350	15860
28	e16670	16770	18070	18160	18350	18560	18080	18250	18020	17230	16320	15840
29	e16680	16770	18080	18160	18330	18500	18070	18220	18000	17190	16300	15820
30	e16690	16770	18080	18160	---	18430	18030	18200	17970	17170	16260	15800
31	16700	---	18080	18150	---	18370	---	18160	---	17120	16240	---
MAX	16760	16770	18080	18220	18450	18710	18660	19640	18810	17960	17110	16200
MIN	16620	16680	16770	17990	18120	18120	18030	18160	17970	17120	16240	15800
(+)	259.19	259.25	260.35	260.41	260.56	260.59	260.31	260.42	260.26	259.54	258.80	258.43
(@)	-70	+70	+1310	+70	+180	+40	-340	+130	-190	-850	-880	-440

WTR YR 2000 MAX 19640 MIN 15800 (@) -970

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 sea level. 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 good except those for estimated daily discharges, which are fair. Since installation of gage in water year 1964, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 37,066 acre-ft). Flow from 44 mi^2 in the Elkhart Creek basin is affected by storage in Houston County Lake near Crockett (station 08065330, conservation pool storage 17,113 acre-ft). There are many diversions above station for irrigation, municipal, and industrial uses. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 56.1 ft Apr 30 or May 1, 1942, at former site and datum, from information by Texas Department of Transportation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1160	1190	1020	2530	4850	4580	1080	1540	7590	894	754
2	963	1330	1100	1020	2040	3480	5490	1240	1410	7190	877	735
3	879	2460	1040	1020	1650	2150	4890	1440	1240	5210	860	707
4	874	2690	1070	1000	1440	1670	3950	4510	1260	3850	873	719
5	844	2100	1100	984	1330	1500	3240	12300	2230	3050	875	756
6	823	1660	1120	1060	1280	1560	3410	12000	4160	2440	860	780
7	806	1410	1120	1100	1250	1870	2940	11500	8910	2160	858	778
8	806	1270	1310	1230	1220	1830	2390	11800	12000	1750	864	741
9	841	1210	1390	1360	1250	1580	1810	9380	13300	1440	861	765
10	872	1180	1290	1360	1310	1440	1570	6180	13900	1360	821	795
11	888	1150	1180	2010	1280	1410	1460	3280	12900	1340	827	773
12	867	1120	1230	3270	1220	1390	2490	1980	9720	1260	844	789
13	924	1110	1660	2800	1190	1470	3190	1620	7710	1230	839	806
14	1120	1090	1940	1930	1160	2120	4390	1450	10000	1160	825	803
15	1100	1090	4640	1550	1140	2230	7450	1350	12400	1080	809	846
16	987	1090	7880	1390	1150	1860	7790	1280	13600	e1070	789	1110
17	944	1080	7470	1320	1170	2060	5470	1220	14300	e1070	792	1210
18	938	1050	4190	1280	1210	1920	3220	1130	14900	1070	817	1060
19	956	1060	2060	1240	1200	1690	3260	1140	15400	1060	812	956
20	955	1040	1430	1210	1160	1640	4290	1710	16000	1060	791	884
21	987	1040	1570	1190	1140	1530	3500	3910	16700	1080	776	855
22	1150	1050	2250	1190	1150	1620	2190	9470	17200	1040	775	874
23	1550	1050	1880	1180	1210	1660	1630	10500	17800	1010	766	850
24	1600	1080	1430	1170	1220	1580	1410	8420	18200	984	773	851
25	1400	1090	1230	1170	1240	2310	1280	5040	18500	962	746	861
26	1220	1870	1150	1160	2950	3710	1200	2740	18300	928	755	852
27	1120	2580	1110	1160	5380	3420	1130	1910	17300	918	748	878
28	1080	2050	1080	1200	5150	2450	1090	1650	14300	903	724	936
29	1050	1560	1050	1230	4760	2650	1050	1520	9950	889	780	1030
30	1110	1300	1020	1250	---	3020	1020	1450	7240	927	776	978
31	1130	---	1020	2010	---	3010	---	1470	---	910	750	---
TOTAL	31844	42020	60200	43064	51380	66680	92780	135670	342370	57991	25157	25732
MEAN	1027	1401	1942	1389	1772	2151	3093	4376	11410	1871	812	858
MAX	1600	2690	7880	3270	5380	4850	7790	12300	18500	7590	894	1210
MIN	806	1040	1020	984	1140	1390	1020	1080	1240	889	724	707
AC-FT	63160	83350	119400	85420	101900	132300	184000	269100	679100	115000	49900	51040

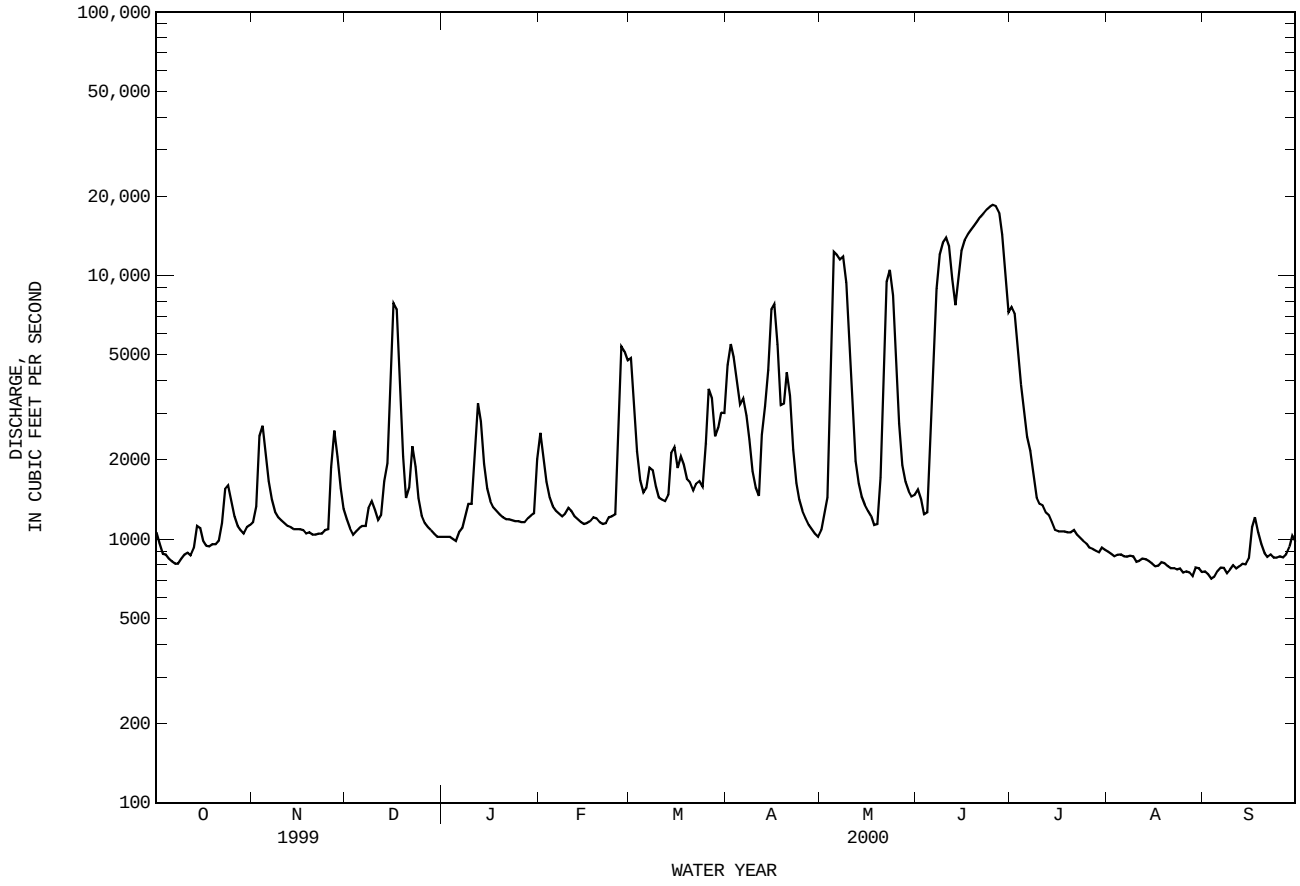
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	3208	5627	7481	6365	7893	9751	8634	13150	9587	3352	1811	1752
MAX	16840	26110	35440	33620	30490	33670	25960	62100	29570	15030	7188	6932
(WY)	1974	1975	1992	1992	1992	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	1519310		974888			
ANNUAL MEAN	4162		2664		6663	
HIGHEST ANNUAL MEAN					16810	1992
LOWEST ANNUAL MEAN					1352	1971
HIGHEST DAILY MEAN	48200	Jan 31	18500	Jun 25	109000	May 10 1990
LOWEST DAILY MEAN	758	Aug 21	707	Sep 3	278	Aug 12 1964
ANNUAL SEVEN-DAY MINIMUM	797	Aug 26	742	Aug 30	293	Aug 10 1964
INSTANTANEOUS PEAK FLOW			18500	Jun 25	109000	May 10 1990
INSTANTANEOUS PEAK STAGE			23.74	Jun 25	48.54	May 10 1990
ANNUAL RUNOFF (AC-FT)	3014000		1934000		4827000	
10 PERCENT EXCEEDS	10200		7300		18800	
50 PERCENT EXCEEDS	1960		1240		2330	
90 PERCENT EXCEEDS	868		826		731	

e Estimated

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued



08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Feb 1964 to current year.
BIOCHEMICAL DATA: Feb 1968 to current year.
PESTICIDE DATA: Nov 1971 to Jul 1981.
SEDIMENT DATA:: Nov 1972 to Sep 1977.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Feb 1964 to current year.
pH: Mar 1975 to current year.
WATER TEMPERATURE: Feb 1964 to Sep 1971, Mar 1975 to current year.
DISSOLVED OXYGEN: Mar 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: Jul 1972 to Sep 1977.

INSTRUMENTATION.--Water-quality monitor since Mar 1975.

REMARKS.--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 using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 5%, chloride is 16%, sulfate is 10% and for hardness is 7%. 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, Sep 22, 1964; minimum, 96 microsiemens, Mar 29, 1989.
pH: Maximum, 9.6 units, Aug 11-12, 1981; minimum, 5.9 units, Aug 12, 1977.
WATER TEMPERATURE: Maximum, 37.0°C, Jul 4, 1970, Sep 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, 875 microsiemens, Aug 13; minimum, 262 microsiemens, Jun 15.
pH: Maximum, 9.2 units, Oct 13, 14; Feb 20, 21; minimum, 6.2 units, Dec 1.
WATER TEMPERATURE: Maximum, 33.7°C, Jul 15; minimum, 7.3°C, Jan 31.
DISSOLVED OXYGEN: Maximum, 14.2 mg/L, Feb 9; minimum, 2.5 mg/L, Jun 7, 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	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)
JAN										
20...	0855	1220	510	7.4	15.0	7.5	74	1.1	150	44
MAR										
01...	1305	4910	444	8.0	17.5	7.6	80	2.0	140	47
APR										
06...	1610	3370	406	7.7	19.5	7.4	81	2.7	120	40
MAY										
08...	1650	11500	319	7.2	24.0	5.7	68	2.7	100	29
JUN										
16...	1138	13600	295	7.6	26.5	4.8	61	4.8	100	20
AUG										
28...	1520	724	834	8.1	32.0	9.0	124	2.6	180	82

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
JAN										
20...	50	5.7	40	1	5.7	--	100	60	42	.60
MAR										
01...	49	4.9	35	1	5.9	--	95	63	34	.42
APR										
06...	41	5.2	27	1	5.6	--	84	55	31	.40
MAY										
08...	34	3.4	17	.7	5.4	--	71	31	20	.33
JUN										
16...	37	2.8	12	.5	5.0	84	--	26	10	.26
AUG										
28...	60	6.5	86	3	11	96	--	94	93	1.3

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
20...	9.1	289	2.74	.010	2.75	<.020	.38	.384	.326	1.0
MAR										
01...	4.7	263	1.94	.076	2.02	<.020	.46	.230	.200	.61
APR										
06...	8.9	233	1.65	.034	1.69	<.020	.49	--	.155	.48
MAY										
08...	7.7	169	1.58	.062	1.64	<.020	.50	.184	.164	.50
JUN										
16...	8.7	157	.810	.069	.879	<.020	.33	.119	.110	.34
AUG										
28...	9.7	465	9.23	.025	9.26	<.020	.75	1.39	1.31	4.0

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1999 TO SEPTEMBER 2000

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	31844	726	414	35590	76	6550	81	7000	170
NOV.	1999	42020	630	359	40740	60	6780	70	7900	160
DEC.	1999	60200	487	277	45080	39	6280	53	8540	150
JAN.	2000	43064	622	355	41230	58	6760	69	7980	160
FEB.	2000	51380	619	353	48910	58	8040	68	9470	160
MAR.	2000	66680	509	290	52220	41	7370	55	9910	150
APR.	2000	92780	453	258	64680	34	8410	49	12150	140
MAY	2000	135670	365	208	76190	24	8620	39	14100	120
JUNE	2000	342370	348	198	183200	21	19870	37	33780	120
JULY	2000	57991	523	298	46620	45	7100	57	8930	150
AUG.	2000	25157	828	472	32090	97	6560	95	6420	170
SEPT	2000	25732	783	447	31050	88	6080	89	6170	170
TOTAL		974888	**	**	697600	**	98420	**	132400	**
WTD.AVG.		2660	465	265	**	37	**	50	**	140

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	698	673	689	601	591	594	486	455	478	572	540	555
2	714	693	705	608	596	602	491	473	481	606	572	589
3	732	705	723	719	602	651	500	491	494	637	606	624
4	791	726	747	719	667	667	509	497	502	667	637	650
5	781	735	752	704	638	688	524	490	507	678	666	672
6	782	732	750	638	523	568	572	524	547	683	678	681
7	789	753	767	523	501	509	608	572	590	683	678	682
8	776	756	765	518	487	500	633	608	625	678	658	667
9	797	752	773	555	496	533	638	632	635	658	627	647
10	803	774	784	554	519	537	637	634	635	627	584	600
11	788	702	730	519	516	517	650	637	643	640	579	602
12	744	710	731	537	518	528	651	581	621	685	640	668
13	748	723	734	552	537	545	627	610	619	677	651	664
14	747	714	727	584	552	566	620	547	586	678	635	669
15	754	726	744	617	584	604	640	545	584	635	557	580
16	761	753	756	635	617	626	545	---	396	565	528	552
17	766	761	764	659	635	646	385	316	363	548	527	537
18	763	748	755	678	659	668	387	373	377	548	511	532
19	756	752	754	702	678	693	407	387	401	511	501	504
20	753	735	743	705	702	704	422	407	414	511	501	505
21	743	731	735	716	703	709	433	421	426	542	511	526
22	753	743	750	717	707	713	485	433	454	581	542	560
23	744	683	701	713	706	708	557	485	520	601	581	594
24	703	688	697	725	713	718	619	557	591	637	601	619
25	708	696	701	725	709	716	621	557	589	654	637	648
26	710	703	706	745	714	736	558	497	538	666	653	658
27	712	703	708	734	703	722	504	479	490	678	666	672
28	719	709	717	703	671	694	517	502	510	678	665	674
29	717	687	704	671	483	593	524	501	509	673	665	669
30	687	656	672	483	433	445	546	524	535	677	670	673
31	656	601	626	---	---	---	551	538	544	680	671	675
MONTH	803	601	729	745	433	623	651	---	523	685	501	618

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	711	674	694	478	403	439	535	514	531	603	581	590
2	703	689	697	534	468	514	538	502	518	603	533	574
3	690	681	688	499	441	465	522	414	443	533	457	484
4	681	599	635	450	440	444	417	388	401	609	392	517
5	599	556	579	450	446	448	395	389	391	421	325	371
6	556	544	548	453	449	452	423	395	404	372	282	315
7	558	546	554	478	453	463	445	423	436	374	323	343
8	558	548	553	527	478	502	462	393	419	341	307	322
9	565	548	558	566	527	554	539	462	509	309	290	299
10	591	565	575	595	566	579	546	516	532	294	288	290
11	611	591	600	613	595	603	538	517	531	328	294	309
12	632	611	625	621	603	615	517	326	386	360	328	346
13	646	632	642	603	578	592	388	362	374	381	360	369
14	663	645	653	578	546	556	517	366	427	412	381	396
15	668	663	666	610	566	594	595	291	479	442	412	428
16	672	668	669	624	609	617	452	291	400	465	442	455
17	688	670	676	620	440	512	441	432	435	485	465	473
18	695	686	690	491	435	464	439	428	431	503	483	493
19	688	627	660	497	483	490	452	433	445	513	490	507
20	635	625	631	525	492	506	492	430	448	490	376	421
21	649	635	643	525	504	514	585	492	550	417	277	367
22	678	649	664	507	383	446	522	434	455	375	268	326
23	681	673	676	483	374	434	463	444	457	455	268	392
24	678	674	677	496	482	490	483	457	475	413	362	373
25	681	677	679	559	486	523	474	462	466	395	365	375
26	682	627	658	567	396	476	464	460	462	400	390	395
27	722	669	705	540	500	517	497	464	479	399	393	397
28	669	456	523	549	518	541	519	497	508	403	398	402
29	456	410	446	536	514	523	553	519	534	415	402	407
30	---	---	---	524	511	517	585	553	573	432	415	424
31	---	---	---	534	512	523	---	---	---	452	432	439
MONTH	722	410	630	624	374	513	595	291	463	609	268	406

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	481	452	466	467	375	407	780	769	773	840	836	838
2	552	481	520	470	409	439	794	780	787	839	830	833
3	590	552	567	416	364	394	797	791	793	841	832	837
4	610	590	600	404	377	388	812	795	803	843	837	839
5	610	295	443	385	366	372	821	811	814	840	825	832
6	475	396	427	385	374	378	824	813	818	827	819	822
7	518	378	447	422	382	393	824	817	820	836	821	826
8	399	263	316	426	422	423	822	802	811	843	816	830
9	315	274	300	442	426	433	811	800	804	817	802	808
10	337	312	329	464	442	454	829	811	816	806	802	804
11	341	336	338	535	464	481	833	813	825	807	800	804
12	369	341	356	632	535	601	853	824	838	806	787	797
13	398	368	386	659	632	645	875	845	855	797	784	790
14	414	357	392	674	659	668	861	842	852	808	782	795
15	364	262	313	676	671	674	868	825	840	806	795	798
16	324	265	298	679	672	676	845	833	838	799	788	792
17	356	324	342	705	679	693	849	843	846	802	788	793
18	381	356	361	714	703	707	849	841	844	811	775	794
19	395	335	357	719	710	714	848	837	843	802	773	785
20	337	324	333	733	717	724	850	845	847	802	783	790
21	324	311	318	750	733	744	847	842	844	791	780	788
22	333	310	322	757	747	754	850	837	843	782	760	770
23	346	333	340	764	757	761	839	830	834	768	759	763
24	347	344	346	765	758	762	838	832	835	769	748	760
25	352	343	345	780	764	769	841	832	835	757	709	739
26	380	352	369	793	780	787	845	837	841	715	622	676
27	377	350	361	799	792	794	856	843	847	696	620	646
28	350	333	338	805	795	799	852	834	841	744	696	728
29	344	331	334	799	795	797	838	834	836	747	735	742
30	404	333	379	800	788	796	838	825	834	760	738	752
31	---	---	---	788	771	777	841	822	827	---	---	---
MONTH	610	262	378	805	364	619	875	769	829	843	620	786

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.5	8.3	7.6	7.2	7.4	6.2	7.9	7.3	---	---	---	---
2	8.6	8.4	7.6	7.2	---	6.6	7.9	7.4	---	---	---	---
3	8.6	8.4	7.6	6.9	7.8	7.0	---	---	---	---	---	---
4	8.6	8.4	7.6	7.3	7.9	7.5	---	---	---	---	---	---
5	8.6	8.4	7.6	7.3	7.9	7.4	---	---	---	---	---	---
6	8.5	8.2	7.5	7.4	7.9	7.1	8.0	7.9	---	---	---	---
7	8.6	8.4	7.5	7.3	7.7	7.0	8.0	7.9	---	---	---	---
8	8.6	8.5	7.6	7.1	7.8	7.2	8.0	7.8	---	---	---	---
9	8.7	8.5	7.5	7.3	7.9	7.3	8.0	7.9	---	---	8.0	7.6
10	8.7	8.6	7.6	7.4	8.1	7.4	7.9	7.7	8.3	7.5	7.7	7.5
11	8.9	8.6	7.6	7.3	7.9	7.4	7.8	7.6	8.5	7.8	7.9	7.2
12	9.0	8.8	7.6	7.1	8.0	7.4	7.6	7.4	8.7	7.8	8.0	7.3
13	9.2	8.9	7.5	7.4	8.0	7.4	7.5	7.3	8.9	8.2	8.0	7.1
14	9.2	8.7	7.7	7.4	8.0	7.1	7.5	7.1	8.6	7.6	7.9	7.6
15	8.9	8.6	7.8	7.2	8.0	7.0	7.3	7.0	8.5	7.4	7.9	7.8
16	8.7	8.4	7.8	7.5	7.8	6.4	7.4	7.1	8.6	8.1	8.1	7.6
17	8.4	7.9	7.8	7.3	7.9	6.5	7.5	7.3	8.6	8.0	7.9	7.1
18	7.9	7.6	7.8	7.1	7.9	6.9	7.5	7.2	8.8	8.3	7.5	7.2
19	7.8	7.5	7.8	7.3	7.7	6.8	7.6	7.4	9.1	8.0	7.7	7.2
20	8.0	7.4	7.9	7.5	8.0	7.0	7.7	7.2	9.2	7.9	7.8	7.2
21	8.0	7.4	7.9	7.4	7.5	6.8	7.8	7.2	9.2	8.1	7.7	7.2
22	8.2	7.5	7.9	7.5	8.1	6.8	7.9	7.4	9.1	8.3	7.8	7.4
23	8.1	7.6	7.9	7.3	8.3	7.1	8.0	7.4	8.9	8.4	7.8	7.5
24	7.9	7.5	7.9	7.1	8.1	7.3	---	---	8.8	8.2	7.8	7.5
25	7.8	7.3	8.1	7.1	8.1	7.2	---	---	8.9	8.4	7.9	7.5
26	7.7	7.3	8.0	6.7	8.1	7.2	---	---	8.8	8.0	7.8	7.5
27	7.7	7.3	7.7	6.6	8.1	7.1	---	---	8.2	7.4	7.8	7.6
28	7.7	7.3	7.6	7.0	8.1	6.9	---	---	8.0	7.2	7.7	7.5
29	7.6	7.3	7.8	6.8	7.8	6.8	---	---	8.1	7.6	7.8	7.4
30	7.3	7.3	7.9	6.4	7.7	7.1	---	---	---	---	7.7	7.5
31	7.4	7.2	---	---	7.7	7.0	---	---	---	---	7.8	7.5
MONTH	9.2	7.2	8.1	6.4	---	6.2	---	---	---	---	---	---

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.7	7.6	8.1	7.8	7.9	7.8	8.0	7.6	8.1	7.9	8.1	7.8
2	7.7	7.5	8.0	7.9	8.0	7.8	7.8	7.7	8.1	7.9	8.0	7.6
3	7.7	7.5	7.9	7.6	8.1	7.9	7.9	7.7	8.1	8.0	8.0	7.6
4	7.8	7.2	7.9	7.1	8.1	8.0	7.9	7.7	8.2	8.0	8.0	7.6
5	7.8	7.3	7.2	7.1	8.1	7.5	7.9	7.8	8.2	8.0	8.0	7.6
6	7.7	7.2	7.2	7.0	7.6	7.4	8.0	7.8	8.2	8.0	8.1	7.7
7	7.8	7.5	7.1	6.9	7.6	7.5	8.0	7.9	8.2	8.0	8.0	7.8
8	7.7	7.2	7.4	7.0	7.7	7.6	8.0	7.8	8.2	8.0	8.1	7.8
9	7.8	7.4	7.4	7.3	7.7	7.5	7.9	7.8	8.1	8.0	8.0	7.7
10	7.7	7.3	7.5	7.3	7.6	7.5	7.9	7.8	8.3	8.0	8.0	7.7
11	7.8	7.6	7.5	7.3	7.5	7.3	8.1	7.9	8.3	8.0	8.0	7.8
12	7.7	7.4	7.5	7.4	7.5	7.4	8.2	7.9	8.4	8.1	8.0	7.8
13	7.6	7.2	7.5	7.3	7.6	7.4	8.1	8.0	8.4	8.2	8.0	7.8
14	7.6	7.3	7.6	7.4	7.6	7.4	8.1	8.0	8.4	8.2	7.9	7.7
15	7.6	7.3	7.6	7.4	7.6	7.4	8.2	8.0	8.4	8.2	7.8	7.7
16	7.6	7.2	7.7	7.6	7.7	7.5	8.2	8.0	8.4	8.2	7.8	7.7
17	7.4	7.2	7.8	7.6	7.8	7.5	8.1	8.0	8.3	7.2	7.8	7.6
18	7.4	7.2	7.9	7.8	7.7	7.5	8.1	8.0	7.6	7.2	7.8	7.6
19	7.5	7.3	7.9	7.7	7.7	7.5	8.2	8.0	7.5	7.3	7.9	7.7
20	7.5	7.4	7.7	7.4	7.7	7.5	8.2	8.0	7.6	7.3	7.8	7.6
21	7.5	7.3	7.5	7.3	7.5	7.4	8.2	8.0	7.6	7.4	7.8	7.6
22	7.4	7.1	7.6	7.4	7.5	7.4	8.2	8.0	7.6	7.4	7.8	7.6
23	7.3	7.1	7.6	7.3	7.5	7.4	8.1	8.0	7.7	7.4	7.8	7.6
24	7.3	7.1	7.6	7.4	7.5	7.3	8.2	8.0	7.7	7.4	7.8	7.7
25	7.3	7.3	7.7	7.4	7.4	7.3	8.1	8.0	7.8	7.4	8.0	7.7
26	7.4	7.2	7.7	7.7	7.4	7.3	8.2	8.0	7.9	7.5	8.0	7.7
27	7.4	7.2	7.8	7.7	7.4	7.2	8.2	8.0	8.0	7.6	7.9	7.5
28	7.6	7.4	7.8	7.6	7.7	7.3	8.1	7.9	8.1	7.7	7.9	7.5
29	7.7	7.4	7.8	7.6	7.7	7.5	8.1	7.9	8.1	7.8	7.9	7.6
30	8.0	7.6	7.8	7.7	7.8	7.5	8.1	7.9	8.1	7.8	7.9	7.6
31	---	---	7.8	7.6	---	---	8.1	7.9	8.1	7.8	---	---
MONTH	8.0	7.1	8.1	6.9	8.1	7.2	8.2	7.6	8.4	7.2	8.1	7.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.3	22.9	23.7	19.2	18.2	18.6	15.8	15.0	15.5	11.8	10.5	11.1
2	24.4	22.7	23.6	18.7	17.6	18.1	15.8	15.2	15.5	13.3	11.8	12.4
3	24.5	23.6	24.0	17.6	16.9	17.2	17.1	15.8	16.5	14.5	13.3	14.0
4	25.2	24.1	24.6	17.8	17.0	17.4	17.4	17.0	17.2	13.8	12.4	13.1
5	25.0	24.1	24.5	18.6	17.6	18.1	17.0	15.6	16.3	12.4	11.5	11.9
6	24.7	23.7	24.2	19.2	18.2	18.7	15.6	14.5	15.0	11.6	11.2	11.4
7	24.2	23.3	23.6	19.4	18.2	18.8	14.5	13.6	14.1	11.6	11.4	11.5
8	24.6	23.4	24.0	19.2	18.0	18.7	14.5	13.8	14.1	11.8	11.4	11.6
9	24.7	23.9	24.2	19.1	18.0	18.6	15.1	14.5	14.7	12.7	11.7	12.1
10	25.2	24.1	24.6	19.2	18.3	18.8	14.7	14.0	14.3	12.9	11.9	12.4
11	25.4	24.4	24.8	19.4	18.2	18.9	14.2	13.8	13.9	13.2	12.1	12.5
12	25.6	24.6	25.1	19.6	18.4	19.0	14.4	14.0	14.2	13.6	12.5	13.1
13	25.6	24.7	25.1	19.6	18.4	19.0	14.2	13.5	13.9	14.3	13.5	13.9
14	25.7	24.3	25.1	19.5	18.3	18.9	13.5	12.9	13.2	14.3	13.7	14.0
15	25.7	24.4	25.1	19.4	18.3	18.9	13.0	12.4	12.7	14.2	13.4	13.8
16	25.5	24.4	25.0	19.2	18.2	18.8	13.0	11.2	11.9	14.8	13.7	14.2
17	25.2	23.7	24.6	19.0	18.0	18.5	11.6	11.0	11.3	15.4	14.2	14.8
18	23.7	22.1	22.9	18.8	17.9	18.4	11.4	11.0	11.2	16.1	14.8	15.5
19	22.1	20.8	21.4	19.0	18.4	18.7	11.4	10.7	11.1	16.5	15.3	15.9
20	21.0	19.9	20.5	19.1	18.1	18.7	11.1	10.9	11.1	16.1	15.1	15.6
21	20.5	19.4	20.0	18.6	18.0	18.3	10.9	10.4	10.7	15.1	14.1	14.4
22	20.4	19.1	19.9	19.2	18.3	18.7	10.6	10.1	10.3	14.6	13.9	14.3
23	20.4	19.2	19.8	19.9	19.1	19.4	10.4	9.9	10.1	15.4	14.3	14.8
24	19.7	18.7	19.2	19.1	18.2	18.5	10.7	9.8	10.2	14.9	13.8	14.3
25	19.6	18.2	18.9	18.2	16.7	17.4	10.5	9.9	10.2	13.8	12.8	13.2
26	19.6	18.2	18.9	16.7	15.8	16.3	10.2	9.6	9.9	12.8	11.8	12.2
27	19.8	18.5	19.2	16.5	15.7	16.1	10.4	9.4	9.9	11.8	10.2	10.9
28	20.4	19.2	19.8	17.1	16.2	16.7	10.4	9.5	10.0	10.2	8.9	9.6
29	20.6	19.5	20.1	17.2	16.5	16.8	10.5	9.4	10.0	8.9	8.1	8.5
30	20.5	19.7	20.1	16.6	15.8	16.2	10.9	9.8	10.4	8.4	7.5	7.9
31	19.7	18.6	19.1	---	---	---	11.3	10.4	10.9	7.9	7.3	7.7
MONTH	25.7	18.2	22.4	19.9	15.7	18.2	17.4	9.4	12.6	16.5	7.3	12.7

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	7.6	7.9	18.1	16.9	17.5	22.0	21.2	21.7	25.5	24.3	24.9
2	9.1	8.1	8.6	19.0	18.1	18.5	21.2	20.7	20.9	25.0	23.2	24.1
3	10.2	8.8	9.5	19.2	18.3	18.8	20.8	19.1	19.8	24.0	22.4	23.2
4	10.7	9.7	10.2	18.5	17.6	18.0	19.1	17.9	18.5	24.6	21.6	23.3
5	10.6	9.5	10.0	18.0	17.0	17.5	19.1	17.8	18.4	22.0	21.3	21.6
6	10.6	9.3	10.0	17.9	17.1	17.5	19.9	18.4	19.0	23.1	21.6	22.3
7	11.8	10.3	11.0	18.7	17.4	18.1	20.7	19.3	19.9	24.1	22.8	23.3
8	12.6	11.0	11.8	19.2	18.5	18.8	20.3	19.1	19.7	24.3	23.5	23.9
9	12.9	11.4	12.2	20.1	18.9	19.4	20.1	18.8	19.4	24.9	24.0	24.4
10	14.2	12.4	13.3	20.5	19.6	20.0	19.9	19.1	19.5	25.5	24.6	25.0
11	15.5	14.1	14.8	19.8	18.4	19.0	21.1	19.6	20.2	26.4	25.3	25.8
12	15.9	14.7	15.3	18.8	17.3	18.0	20.6	19.0	19.5	27.0	25.9	26.4
13	16.9	15.6	16.2	18.6	17.1	17.8	19.0	18.1	18.5	26.9	26.1	26.5
14	17.0	15.7	16.3	17.8	17.4	17.6	19.2	18.1	18.5	26.7	25.4	26.0
15	17.1	15.8	16.5	17.6	17.3	17.5	19.3	18.4	18.9	26.7	25.2	25.9
16	17.8	16.7	17.3	18.9	17.4	18.1	19.9	18.3	19.1	26.8	25.5	26.1
17	19.1	17.7	18.3	18.6	16.1	17.3	21.1	19.7	20.3	27.2	25.7	26.5
18	19.4	18.6	18.9	17.1	15.9	16.5	22.4	20.9	21.6	27.3	26.0	26.6
19	18.8	17.8	18.2	17.8	16.6	17.1	23.6	22.1	22.8	26.9	25.1	26.2
20	17.8	16.7	17.3	17.7	16.3	17.0	24.0	23.1	23.5	25.1	23.4	24.1
21	17.5	16.3	17.0	17.1	16.8	16.9	24.1	23.1	23.5	25.4	23.6	24.2
22	17.6	16.6	17.2	17.4	16.5	17.0	23.3	22.4	22.8	25.4	24.3	24.9
23	17.9	17.1	17.5	18.9	17.4	18.1	23.7	22.1	22.9	25.8	24.6	25.1
24	18.8	17.6	18.2	20.1	18.5	19.3	24.5	22.8	23.6	25.9	24.6	25.2
25	19.0	18.4	18.7	21.4	19.8	20.6	24.8	22.9	23.8	27.1	25.9	26.4
26	19.3	18.6	18.9	21.3	18.2	20.4	25.5	23.2	24.3	28.1	26.9	27.4
27	18.7	17.9	18.3	21.3	20.5	20.9	25.7	24.1	24.9	28.2	27.5	27.8
28	18.0	17.1	17.5	21.8	20.7	21.2	26.4	24.7	25.5	28.8	27.1	28.0
29	17.1	17.0	17.1	23.0	21.3	22.2	26.4	24.6	25.6	29.8	27.9	28.8
30	---	---	---	22.7	21.8	22.2	26.0	25.1	25.5	30.2	28.7	29.4
31	---	---	---	22.6	21.5	22.0	---	---	---	30.6	29.3	29.9
MONTH	19.4	7.6	15.0	23.0	15.9	18.7	26.4	17.8	21.4	30.6	21.3	25.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.8	29.5	30.1	30.3	29.2	29.8	31.8	30.4	31.1	32.6	31.4	31.8
2	31.0	29.5	30.2	30.1	29.5	29.7	31.7	30.8	31.2	32.4	31.1	31.5
3	30.9	29.9	30.4	29.9	29.2	29.5	31.9	30.7	31.3	32.4	31.0	31.5
4	30.3	29.2	29.6	30.2	29.2	29.7	31.8	31.0	31.4	32.4	31.0	31.5
5	29.2	25.6	27.0	30.5	29.3	29.9	32.0	31.1	31.5	32.3	31.1	31.5
6	27.1	25.8	26.6	30.9	29.7	30.2	32.1	31.1	31.5	31.6	30.5	30.9
7	27.1	25.6	26.4	31.4	29.9	30.7	32.2	31.2	31.6	31.3	30.0	30.6
8	25.6	24.8	25.1	32.0	30.5	31.2	32.3	31.2	31.5	30.3	29.4	29.9
9	25.6	24.8	25.2	32.3	30.8	31.5	32.2	31.0	31.5	30.1	29.3	29.6
10	26.0	25.3	25.6	32.4	30.8	31.6	32.6	31.1	31.7	30.3	29.1	29.6
11	25.9	25.6	25.7	32.3	30.8	31.6	32.7	31.5	31.9	30.8	29.6	30.0
12	26.6	25.7	26.1	32.7	30.9	31.8	32.7	31.5	31.9	31.0	29.6	30.1
13	27.3	26.3	26.8	32.9	31.2	32.0	32.3	31.1	31.7	30.2	29.4	29.7
14	27.4	26.9	27.1	33.1	31.5	32.4	31.9	30.8	31.2	29.7	29.0	29.4
15	27.1	26.3	26.6	33.7	31.8	32.7	31.9	30.8	31.2	29.6	28.7	29.1
16	27.4	26.2	26.7	33.6	32.0	32.9	32.3	30.9	31.5	28.7	27.8	28.3
17	27.2	26.9	27.1	33.5	32.0	32.8	32.4	31.1	31.7	28.1	26.5	27.4
18	27.7	27.0	27.3	33.2	31.9	32.6	32.5	31.4	31.8	27.5	25.8	26.7
19	27.4	26.7	27.0	33.5	31.9	32.7	32.4	31.4	31.8	27.2	25.8	26.5
20	27.0	26.4	26.7	33.6	32.0	32.8	32.2	31.2	31.6	27.2	26.2	26.7
21	27.4	26.7	27.0	33.5	32.0	32.8	32.2	31.2	31.5	27.5	26.9	27.1
22	28.1	27.1	27.5	33.6	31.9	32.8	32.3	31.1	31.5	28.2	27.2	27.6
23	28.6	27.7	28.1	33.0	32.0	32.5	31.8	30.9	31.3	28.9	27.7	28.2
24	28.9	28.1	28.5	32.5	31.1	31.8	32.0	30.8	31.2	28.9	27.5	28.3
25	29.2	28.4	28.8	32.0	30.5	31.3	32.0	30.8	31.3	27.5	25.2	26.5
26	29.4	28.6	29.0	31.8	30.7	31.3	32.3	31.0	31.5	25.2	24.0	24.7
27	29.4	28.7	29.1	31.8	30.6	31.2	32.2	31.1	31.5	24.6	23.5	24.0
28	29.7	28.9	29.3	31.9	30.9	31.3	32.3	31.0	31.5	24.3	23.3	23.7
29	29.6	29.1	29.3	31.9	30.8	31.3	32.4	31.0	31.6	24.0	22.9	23.5
30	30.0	29.2	29.5	32.0	30.9	31.4	32.5	31.3	31.7	24.0	22.5	23.3
31	---	---	---	32.0	30.7	31.2	32.6	31.2	31.8	---	---	---
MONTH	31.0	24.8	27.6	33.7	29.2	31.5	32.7	30.4	31.5	32.6	22.5	28.3
YEAR	33.7	7.3	22.1									

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	7.9	8.4	7.7	7.2	7.5	7.8	7.3	7.6	13.0	11.3	11.9
2	9.0	7.7	8.2	8.5	7.4	7.9	9.2	7.7	8.3	12.2	11.1	11.5
3	8.7	7.7	8.2	8.7	8.0	8.4	9.1	8.2	8.6	11.2	10.8	11.0
4	9.0	7.8	8.3	8.4	8.0	8.2	8.2	7.8	8.0	12.1	10.8	11.4
5	9.1	7.7	8.3	8.2	7.7	8.0	8.5	7.9	8.2	12.9	11.3	12.2
6	9.0	7.8	8.4	7.8	7.0	7.4	8.9	8.2	8.6	13.0	11.9	12.3
7	---	---	---	7.4	6.9	7.1	9.3	8.5	9.0	12.6	11.7	12.0
8	---	---	---	7.7	7.2	7.3	9.6	9.0	9.3	12.0	10.9	11.6
9	---	---	---	7.7	7.3	7.4	9.6	9.0	9.4	11.8	10.7	11.1
10	---	---	---	7.6	7.2	7.4	9.9	9.2	9.5	10.7	10.0	10.4
11	---	---	---	7.6	7.3	7.4	9.5	9.0	9.4	---	10.2	10.4
12	---	---	---	7.6	7.2	7.4	9.5	7.9	9.1	10.3	9.2	9.6
13	---	---	---	7.9	7.1	7.4	9.6	9.2	9.4	9.5	8.8	9.1
14	---	---	---	7.8	7.3	7.6	9.9	9.4	9.6	9.0	8.1	8.5
15	10.7	8.8	9.6	7.9	7.4	7.6	10.2	8.7	9.8	8.2	7.7	7.9
16	9.1	7.5	8.3	8.0	6.3	7.7	9.2	7.8	8.4	8.4	7.8	8.1
17	7.9	6.4	6.9	8.1	7.6	7.9	9.9	9.1	9.5	8.2	7.8	8.0
18	6.5	5.9	6.3	8.4	7.7	7.9	10.8	9.5	10.1	8.1	7.5	7.8
19	7.4	6.2	6.7	7.9	7.6	7.8	10.6	10.1	10.5	7.9	7.4	7.7
20	7.9	6.9	7.4	8.2	7.6	7.8	10.9	10.2	10.7	8.1	7.4	7.8
21	8.3	7.5	7.8	8.1	7.6	7.8	11.5	10.6	11.0	8.5	7.7	8.1
22	8.8	7.7	8.2	7.9	7.4	7.6	11.9	11.2	11.6	8.6	7.9	8.3
23	8.8	8.1	8.4	7.8	7.3	7.5	11.9	11.5	11.7	8.9	8.1	8.5
24	8.3	8.0	8.1	8.1	7.4	7.7	12.3	11.3	11.7	9.5	8.4	8.9
25	8.1	7.6	7.8	8.1	7.6	7.9	12.5	11.2	11.6	10.5	8.9	9.7
26	7.9	7.4	7.7	8.6	7.9	8.2	12.0	11.4	11.7	10.8	9.5	10.0
27	8.1	7.3	7.6	8.6	7.9	8.2	12.2	11.5	11.9	10.8	9.4	9.9
28	8.1	6.3	7.6	8.2	7.3	7.6	12.3	11.5	12.0	10.5	9.7	10.1
29	7.8	7.2	7.5	7.7	6.9	7.1	12.7	11.7	12.2	11.5	10.3	10.8
30	7.4	7.1	7.2	7.4	6.6	7.0	12.7	11.6	12.2	12.7	11.1	11.9
31	7.5	7.1	7.3	---	---	---	12.3	11.5	11.8	13.4	11.9	12.7
MONTH	---	---	---	8.7	6.3	7.7	12.7	7.3	10.1	---	7.4	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.4	10.8	11.6	7.7	7.0	7.4	6.3	5.7	6.1	9.1	7.8	8.4
2	11.1	10.3	10.6	7.8	7.2	7.4	6.2	5.6	5.8	8.8	7.4	8.0
3	10.5	9.7	10.1	7.8	7.1	7.4	6.5	5.4	6.0	8.4	7.0	7.7
4	10.5	9.3	9.6	8.2	7.5	7.7	7.1	6.2	6.6	---	---	---
5	10.5	9.3	9.6	8.5	7.7	8.1	7.5	6.8	7.1	---	---	---
6	10.1	9.5	9.8	8.2	7.7	8.0	8.4	7.2	7.7	---	---	---
7	10.6	9.5	10.2	8.8	7.9	8.2	8.3	7.5	8.0	---	---	---
8	11.8	9.6	10.6	8.5	7.8	8.1	8.1	7.4	7.7	---	---	---
9	14.2	10.9	12.2	8.2	7.5	7.8	8.0	7.4	7.7	5.7	4.9	5.3
10	13.1	11.9	12.6	7.9	7.2	7.6	8.0	7.3	7.7	5.8	5.2	5.5
11	12.1	10.8	11.5	8.2	7.2	7.7	7.9	7.1	7.4	5.8	5.3	5.5
12	12.5	10.8	11.6	8.6	7.7	7.9	7.9	7.1	7.4	5.9	5.4	5.6
13	12.6	11.2	11.9	8.6	7.7	8.1	7.7	7.2	7.4	6.3	5.7	5.9
14	12.6	10.9	11.7	8.7	8.1	8.4	7.8	7.2	7.5	6.4	5.9	6.1
15	12.4	10.1	11.1	8.5	7.8	8.2	7.3	5.7	6.4	6.8	6.2	6.4
16	11.7	10.2	10.8	8.1	7.4	7.8	6.1	5.8	6.0	7.0	6.3	6.7
17	10.7	9.6	10.2	8.0	7.2	7.6	6.1	5.8	5.9	7.5	6.3	6.9
18	10.2	8.7	9.6	7.6	7.0	7.3	6.5	6.0	6.2	7.7	6.6	7.1
19	11.5	8.9	10.1	7.7	7.1	7.4	6.4	5.8	6.1	7.0	6.5	6.8
20	12.5	9.7	11.1	8.1	7.3	7.6	6.6	6.0	6.3	6.8	6.4	6.6
21	13.7	10.7	12.1	8.3	7.5	7.9	6.4	5.7	6.1	6.8	4.9	5.9
22	13.5	11.3	12.3	8.3	7.0	7.7	6.3	5.8	6.0	4.9	4.3	4.6
23	12.6	10.7	11.5	8.0	6.8	7.3	6.3	5.9	6.1	4.5	4.2	4.3
24	11.8	9.8	10.9	7.9	6.9	7.4	6.3	5.9	6.1	5.2	4.0	4.6
25	10.9	9.2	10.1	7.5	7.0	7.3	6.2	6.0	6.1	5.9	4.9	5.3
26	10.2	8.0	8.9	7.3	6.3	6.8	6.4	6.1	6.2	6.4	5.8	6.1
27	8.0	6.8	7.3	6.5	5.6	6.0	6.8	6.2	6.6	6.4	5.8	6.2
28	7.0	6.0	6.4	6.3	5.8	5.9	7.5	6.7	7.1	6.4	6.1	6.3
29	7.4	6.8	7.1	5.9	5.6	5.7	8.4	7.2	7.8	6.4	6.1	6.2
30	---	---	---	6.1	5.6	5.9	9.0	7.4	8.2	6.5	6.0	6.3
31	---	---	---	6.4	5.8	6.1	---	---	---	6.4	5.9	6.2
MONTH	14.2	6.0	10.5	8.8	5.6	7.4	9.0	5.4	6.8	---	---	---

08065350 TRINITY RIVER NEAR CROCKETT, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	5.9	6.4	5.5	5.0	5.2	8.5	7.1	7.7	8.7	6.6	7.4
2	7.4	6.1	6.7	5.7	5.0	5.3	8.2	7.0	7.5	8.3	6.6	7.1
3	8.1	6.3	7.1	6.6	5.2	5.9	8.2	6.9	7.3	8.5	6.4	7.1
4	7.6	6.4	7.1	6.4	5.6	5.9	8.2	6.5	7.2	8.5	6.3	7.2
5	7.0	5.7	6.1	6.5	5.7	5.9	8.2	6.7	7.3	8.3	6.4	7.2
6	6.2	5.3	5.7	6.3	5.8	6.0	8.3	6.7	7.3	8.5	6.4	7.3
7	5.3	2.5	4.0	6.4	5.8	6.1	8.0	6.7	7.2	8.7	6.6	7.5
8	4.4	2.5	3.4	6.3	5.9	6.1	7.6	6.5	7.0	9.6	6.7	7.9
9	4.2	3.6	3.9	6.3	5.7	6.1	7.9	6.6	7.2	9.5	7.6	8.4
10	4.4	3.0	4.0	6.6	6.1	6.3	8.2	6.6	7.2	9.4	7.6	8.3
11	4.5	4.0	4.2	7.1	5.9	6.6	8.1	6.6	7.3	9.6	7.6	8.3
12	5.2	3.9	4.4	8.1	6.4	7.0	8.1	6.7	7.2	9.3	7.4	8.1
13	5.6	4.7	5.2	7.9	6.5	7.1	7.8	6.4	7.0	8.7	7.3	7.8
14	5.6	4.6	5.2	8.1	6.3	7.1	7.7	6.2	6.9	8.4	7.1	7.6
15	4.9	4.3	4.6	8.6	6.3	7.3	8.3	6.4	7.1	8.4	6.9	7.6
16	5.2	4.2	4.8	8.1	6.2	7.2	8.2	6.5	7.1	8.7	7.0	7.8
17	5.6	4.8	5.1	7.8	6.1	6.9	---	---	---	8.5	7.3	7.9
18	5.5	4.8	5.1	7.2	5.8	6.4	---	---	---	8.9	7.1	7.9
19	5.3	4.9	5.2	7.1	5.4	6.2	---	---	---	9.0	7.3	8.0
20	5.4	4.9	5.1	7.1	5.3	6.2	---	---	---	8.9	7.6	8.1
21	5.2	4.4	4.7	7.3	5.2	6.3	---	---	---	8.6	7.3	7.9
22	4.9	4.3	4.5	6.8	5.2	6.0	---	---	---	8.3	7.0	7.7
23	4.6	4.0	4.4	6.8	5.3	5.9	---	---	---	8.4	7.1	7.6
24	4.2	3.8	4.0	7.5	5.6	6.5	---	---	---	8.3	6.7	7.4
25	4.3	3.7	3.9	7.8	6.0	6.9	---	---	---	8.8	7.2	7.9
26	4.7	3.8	4.1	7.9	6.1	6.9	---	---	---	9.0	7.5	8.2
27	4.3	4.0	4.2	7.6	6.1	6.9	---	---	---	9.4	7.7	8.5
28	4.6	4.0	4.2	9.4	5.9	7.7	9.2	---	---	9.7	8.2	8.8
29	5.2	4.1	4.7	9.3	7.5	8.3	9.2	6.9	7.8	9.8	8.4	8.8
30	5.8	4.7	5.1	9.1	7.5	8.1	9.3	7.1	8.0	9.7	8.1	8.8
31	---	---	---	9.0	7.3	7.9	9.1	7.2	7.8	---	---	---
MONTH	8.1	2.5	4.9	9.4	5.0	6.6	---	---	---	9.8	6.3	7.9

08065800 BEDIAS CREEK NEAR MADISONVILLE, TX

LOCATION.--Lat 30°53′03", long 95°46′39", 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: Jul 1962 to Apr 1964, Jan 1968 to Sep 1974, Oct 1984 to Sep 1987. Biochemical data: Sep 1970 to Sep 1974, Apr 1985 to Jun 1988, Apr 1993 to Sep 1995. Pesticide data: Apr 1985 to Apr 1988. Suspended sediment data: Oct 1984 to Sep 1986. Specific conductance: Oct 1984 to Sep 1987. Water temperature: Oct 1984 to Sep 1987.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 150.00 ft above sea level. 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 with a combined detention capacity of 1,290 acre-ft. These structures control runoff from 2.71 mi^2 in the upper Caney Creek and Town Branch drainage basins. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1910, 34 ft in May 1922 (discharge unknown), from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

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

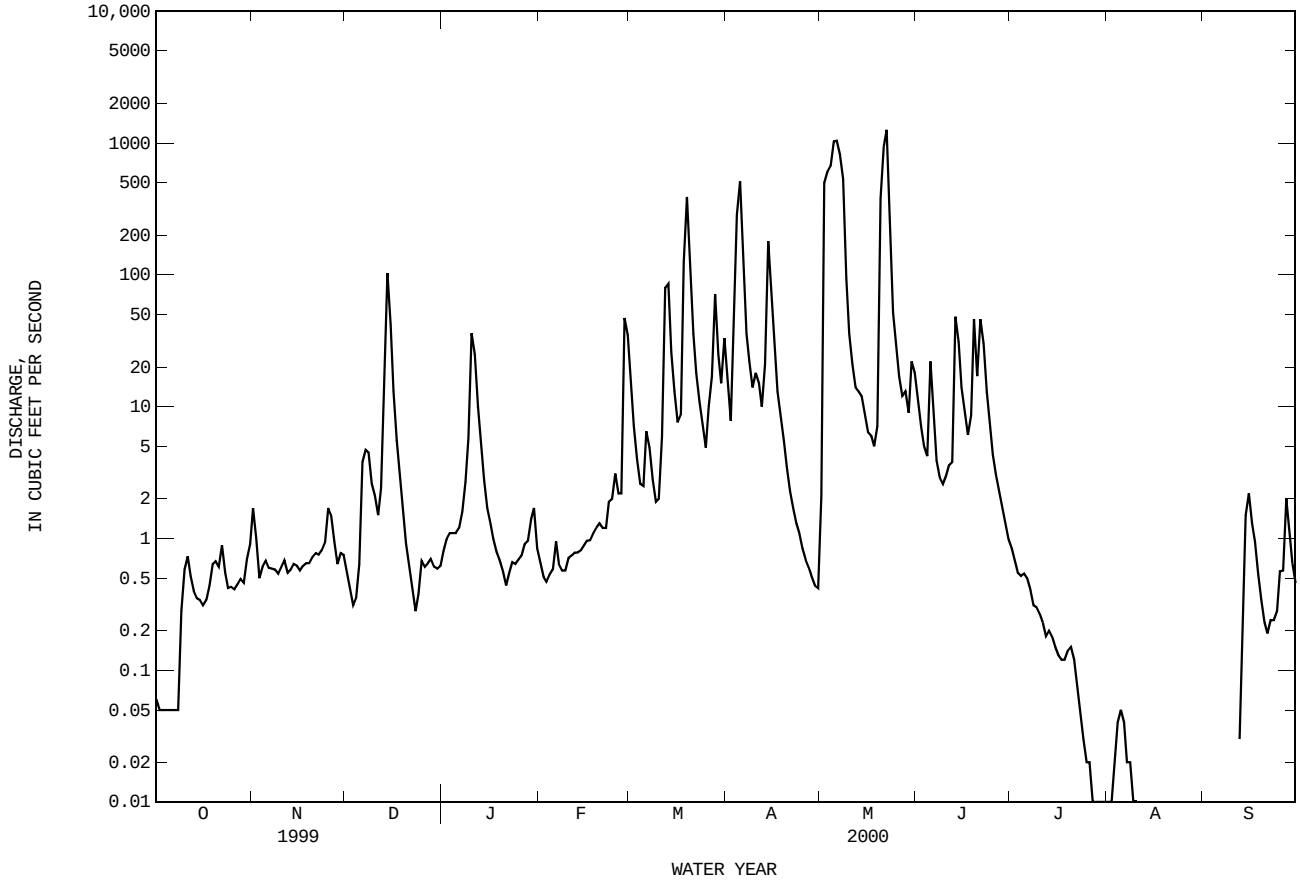
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	1.7	.56	.80	.65	14	17	2.1	11	.84	.01	.00
2	.05	1.0	.42	.99	.51	7.1	7.8	498	7.0	.69	.01	.00
3	.05	.50	.31	1.1	.47	4.0	38	606	5.0	.55	.02	.00
4	.05	.61	.35	1.1	.53	2.6	286	670	4.2	.52	.04	.00
5	.05	.68	.64	1.1	.58	2.5	512	1030	22	.54	.05	.00
6	.05	.60	3.8	1.2	.95	6.5	123	1040	8.7	.50	.04	.00
7	.05	.59	4.7	1.6	.64	4.9	36	818	3.9	.41	.02	.00
8	.05	.58	4.5	2.7	.57	2.8	22	536	2.9	.31	.02	.00
9	.28	.54	2.6	5.7	.57	1.9	14	94	2.6	.30	.01	.00
10	.58	.60	2.1	36	.71	2.0	18	36	3.0	.27	.01	.00
11	.73	.68	1.5	25	.74	5.9	15	21	3.6	.23	.00	.00
12	.52	.55	2.4	10	.78	79	10	14	3.8	.18	.00	.03
13	.40	.58	13	5.3	.78	85	21	13	48	.20	.00	.19
14	.35	.64	103	2.8	.81	26	180	12	31	.18	.00	1.5
15	.34	.62	42	1.7	.88	13	59	8.8	14	.15	.00	2.2
16	.31	.57	13	1.3	.96	7.6	27	6.4	9.1	.13	.00	1.3
17	.34	.62	5.6	.99	.97	8.7	13	6.0	6.1	.12	.00	.95
18	.44	.65	2.9	.79	1.1	125	8.4	5.0	8.6	.12	.00	.54
19	.64	.65	1.5	.68	1.2	389	5.5	7.1	46	.14	.00	.34
20	.67	.72	.92	.56	1.3	100	3.5	378	17	.15	.00	.23
21	.61	.77	.59	.44	1.2	36	2.3	941	46	.12	.00	.19
22	.89	.75	.40	.54	1.2	18	1.7	1260	30	.08	.00	.24
23	.55	.81	.28	.66	1.9	11	1.3	323	13	.05	.00	.24
24	.42	.93	.38	.64	2.0	7.5	1.1	52	7.4	.03	.00	.28
25	.43	1.7	.68	.69	3.1	4.9	.84	28	4.3	.02	.00	.56
26	.41	1.5	.61	.74	2.2	10	.69	17	3.0	.02	.00	.57
27	.45	.95	.65	.91	2.2	17	.60	12	2.2	.01	.00	2.0
28	.49	.64	.70	.96	47	71	.51	13	1.7	.01	.00	1.1
29	.46	.77	.61	1.4	35	25	.44	9.0	1.3	.01	.00	.65
30	.70	.75	.59	1.7	---	15	.42	22	.98	.01	.00	.46
31	.91	---	.62	.84	---	33	---	18	---	.01	.00	---
TOTAL	12.33	23.25	211.91	110.93	111.50	1135.9	1426.10	8496.4	367.38	6.90	0.23	13.57
MEAN	.40	.77	6.84	3.58	3.84	36.6	47.5	274	12.2	.22	.007	.45
MAX	.91	1.7	103	36	47	389	512	1260	48	.84	.05	2.2
MIN	.05	.50	.28	.44	.47	1.9	.42	2.1	.98	.01	.00	.00
AC-FT	24	46	420	220	221	2250	2830	16850	729	14	.5	27
CFSM	.00	.00	.02	.01	.01	.11	.15	.85	.04	.00	.00	.00
IN.	.00	.00	.02	.01	.01	.13	.17	.98	.04	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	210	139	222	313	305	261	240	308	245	21.6	25.5	86.3
MAX	3021	932	983	2015	1580	909	1333	1046	1745	260	266	1551
(WY)	1985	1999	1995	1991	1992	1973	1969	1969	1968	1979	1995	1974
MIN	.000	.025	.22	1.99	3.84	3.13	2.30	2.65	.43	.013	.000	.000
(WY)	1979	1989	1968	1971	2000	1971	1981	1998	1998	1977	1969	1969

08065800 BEDIAS CREEK NEAR MADISONVILLE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	23888.41		11916.40			
ANNUAL MEAN	65.4		32.6		198	
HIGHEST ANNUAL MEAN					423	1985
LOWEST ANNUAL MEAN					32.6	2000
HIGHEST DAILY MEAN	5430	Jan 30	1260	May 22	23000	Jan 10 1991
LOWEST DAILY MEAN	.03	Sep 23	.00	Aug 11	.00	Aug 31 1968
ANNUAL SEVEN-DAY MINIMUM	.04	Sep 21	.00	Aug 11	.00	Aug 31 1968
INSTANTANEOUS PEAK FLOW			1390	May 22	33800	Sep 14 1974
INSTANTANEOUS PEAK STAGE			14.84	May 22	25.07	Sep 14 1974
INSTANTANEOUS LOW FLOW			.00	Aug 14	.00	Aug 14 2000
ANNUAL RUNOFF (AC-FT)	47380		23640		143100	
ANNUAL RUNOFF (CFSM)	.20		.10		.62	
ANNUAL RUNOFF (INCHES)	2.77		1.38		8.36	
10 PERCENT EXCEEDS	69		34		388	
50 PERCENT EXCEEDS	8.6		.84		8.3	
90 PERCENT EXCEEDS	.21		.01		.07	



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 Sep 1974. Biochemical data: Oct 1969 to Sep 1974.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 139.85 ft above sea level. Satellite telemeter at station.

REMARKS.--Records poor. No known regulation or diversions. Low flow is sustained by wastewater effluent that enters the creek upstream from this station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.7	.88	1.1	1.2	e.85	2.4	1.5	1.6	.74	1.6	.16
2	1.1	1.2	1.0	1.2	1.1	.79	7.5	48	1.5	.82	.53	.16
3	1.0	.82	1.7	1.2	1.0	.84	35	14	1.5	.62	.31	.13
4	.99	1.1	3.3	1.1	.96	.78	9.2	7.4	1.6	.49	.28	.11
5	.79	1.3	3.4	1.1	.95	.63	2.7	14	9.2	.47	.30	.12
6	.77	1.2	2.1	.97	e.95	.58	1.7	2.7	5.7	.45	.32	.10
7	.85	1.1	1.8	1.1	e1.5	.55	1.5	2.3	1.6	.43	.32	.10
8	1.5	1.1	1.5	1.6	e1.6	.55	2.5	3.9	e.90	.44	.31	.09
9	1.3	1.1	1.6	1.5	e1.4	.54	1.5	1.7	e.80	.58	.30	.14
10	1.6	1.1	1.7	1.4	e1.2	.52	1.3	4.2	1.2	.67	.23	.17
11	1.2	1.1	1.5	1.3	e.95	.57	1.2	3.5	1.1	.83	.21	.19
12	.85	1.1	2.3	1.3	.82	.44	2.3	1.8	1.0	.78	.16	2.9
13	.67	1.1	6.3	1.3	.84	.37	2.4	4.7	e.95	.71	.13	4.7
14	.60	1.0	2.7	1.2	.81	.34	2.1	3.9	e.80	.55	.13	.71
15	.60	.95	1.8	1.0	.76	.62	1.9	2.2	e.75	.78	.14	.24
16	.55	.87	1.5	1.0	.80	.70	1.6	1.4	e.70	.48	.13	.19
17	.54	.85	1.3	1.1	.80	1.2	1.4	.93	e.65	.51	e.11	.15
18	.57	1.0	1.2	1.1	.81	.81	1.1	.93	e.60	.54	.10	.12
19	1.1	.92	1.2	1.1	.78	.63	1.2	1.0	e.90	.53	e.09	.12
20	1.0	.98	1.2	1.0	.74	.45	1.1	2.6	e.65	.54	e.09	.11
21	.87	.98	1.1	.91	.73	.50	1.0	1.3	e.60	.40	.10	15
22	.72	.93	1.1	.99	.75	.83	.98	.91	e.60	.38	.19	9.2
23	.70	1.5	1.0	1.1	1.5	.66	1.0	.92	.55	.33	.23	1.6
24	.65	1.3	1.0	.99	1.3	.56	1.1	.79	.50	.30	.22	.97
25	.60	1.2	1.0	.93	e1.1	.40	1.0	.80	.45	.31	.21	5.3
26	.58	1.1	1.0	.90	e1.0	6.0	.97	.75	.45	.30	.19	2.1
27	.63	.98	1.1	1.1	e.95	4.7	.94	.86	.43	.37	.18	1.5
28	.64	.98	.94	1.8	e.90	2.3	.93	1.8	.45	.33	.16	1.3
29	.62	1.0	1.0	1.4	e.85	3.8	.91	.92	.46	.39	.16	1.2
30	1.7	.90	1.2	1.2	---	5.9	.93	1.0	.45	.94	.15	1.2
31	2.7	---	1.2	1.2	---	2.8	---	1.7	---	2.9	.16	---
TOTAL	29.59	32.46	51.62	36.19	29.05	41.21	91.36	134.41	38.64	18.91	7.74	50.08
MEAN	.95	1.08	1.67	1.17	1.00	1.33	3.05	4.34	1.29	.61	.25	1.67
MAX	2.7	1.7	6.3	1.8	1.6	6.0	35	48	9.2	2.9	1.6	15
MIN	.54	.82	.88	.90	.73	.34	.91	.75	.43	.30	.09	.09
AC-FT	59	64	102	72	58	82	181	267	77	38	15	99
CFSM	.02	.02	.03	.02	.02	.02	.05	.08	.02	.01	.00	.03
IN.	.02	.02	.03	.02	.02	.03	.06	.09	.03	.01	.01	.03

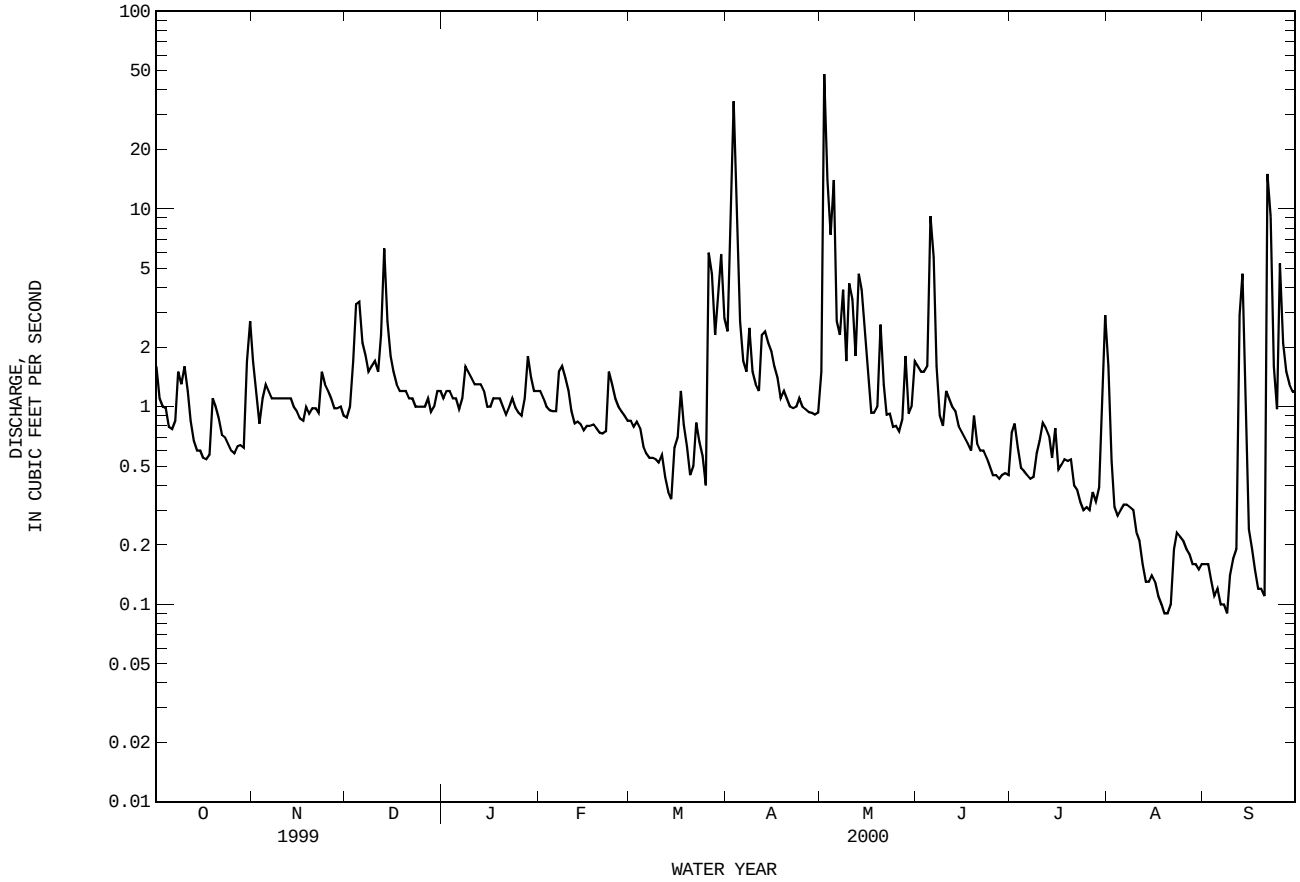
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	72.5	37.0	52.6	77.4	73.9	63.3	55.4	59.4	53.0	11.0	6.81	11.6
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	.31	.82	1.67	1.17	1.00	.76	1.13	.86	.31	.083	.25	.37
(WY)	1988	1991	2000	2000	2000	1971	1971	1988	1971	1971	2000	1989

08066170 KICKAPOO CREEK NEAR ONALASKA, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	8895.04		561.26			
ANNUAL MEAN	24.4		1.53		47.6	
HIGHEST ANNUAL MEAN					223	1995
LOWEST ANNUAL MEAN					1.53	2000
HIGHEST DAILY MEAN	2000	Jan 29	48	May 2	38800	Oct 17 1994
LOWEST DAILY MEAN	.51	Sep 1	.09	Aug 19	.02	Sep 27 1967
ANNUAL SEVEN-DAY MINIMUM	.63	Oct 12	.11	Aug 15	.02	Sep 27 1967
INSTANTANEOUS PEAK FLOW			119	May 2	84600	Oct 17 1994
INSTANTANEOUS PEAK STAGE			5.30	May 2	41.85	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	17640		1110		34480	
ANNUAL RUNOFF (CFSM)	.43		.027		.83	
ANNUAL RUNOFF (INCHES)	5.81		.37		11.34	
10 PERCENT EXCEEDS	28		2.3		60	
50 PERCENT EXCEEDS	2.9		.95		3.3	
90 PERCENT EXCEEDS	.81		.23		.49	

e Estimated



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.--Sep 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (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. The reservoir is formed by an earthfill dam 14,400 ft long. The dam was completed Sep 29, 1968, and deliberate impoundment began Jun 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 with a combined detention capacity of l84,600 acre-ft. 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, 1,805,000 acre-ft, Jun 26, elevation, 131.75 ft; minimum contents, 1,608,000 acre-ft, Sep 30, elevation, 129.35 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

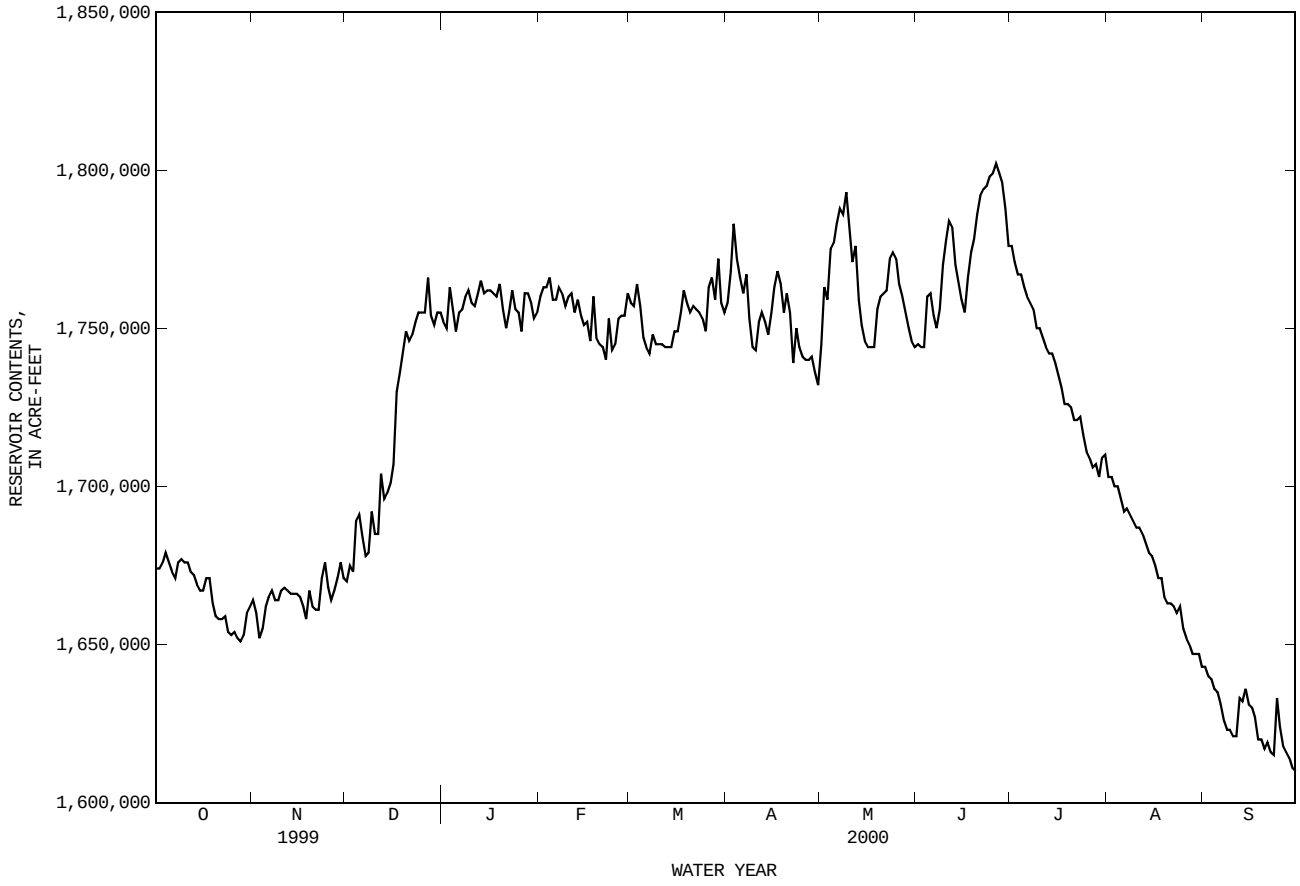
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1674000	1664000	1670000	1752000	1760000	1758000	1758000	1745000	1745000	1776000	1703000	1643000
2	1674000	1660000	1675000	1750000	1763000	1757000	1768000	1763000	1744000	1771000	1703000	1640000
3	1676000	1652000	1673000	1763000	1763000	1764000	1783000	1759000	1744000	1767000	1700000	1639000
4	1679000	1655000	1689000	1756000	1766000	1757000	1772000	1775000	1760000	1767000	1700000	1636000
5	1676000	1662000	1691000	1749000	1759000	1747000	1766000	1777000	1761000	1763000	1696000	1635000
6	1673000	1665000	1684000	1755000	1759000	1744000	1761000	1783000	1754000	1760000	1692000	1631000
7	1671000	1667000	1678000	1756000	1763000	1742000	1767000	1788000	1750000	1758000	1693000	1626000
8	1676000	1664000	1679000	1760000	1761000	1748000	1753000	1786000	1756000	1756000	1691000	1623000
9	1677000	1664000	1692000	1762000	1757000	1745000	1744000	1793000	1770000	1750000	1689000	1623000
10	1676000	1667000	1685000	1758000	1760000	e1745000	1743000	1783000	1778000	1750000	1687000	1621000
11	1676000	1668000	1685000	1757000	1761000	e1745000	1752000	1771000	1784000	1747000	1687000	1621000
12	1673000	1667000	1704000	1761000	1755000	e1744000	1755000	1776000	1782000	1744000	1685000	1633000
13	1672000	1666000	1696000	1765000	1759000	e1744000	1752000	1759000	1770000	1742000	1682000	1632000
14	1669000	1666000	1698000	1761000	1754000	1744000	1748000	1751000	1764000	1742000	1679000	1636000
15	1667000	1666000	1701000	1762000	1751000	1749000	1755000	1746000	1759000	1739000	1678000	1631000
16	1667000	1665000	1707000	1762000	1752000	1749000	1763000	1744000	1755000	1735000	1675000	1630000
17	1671000	1662000	1730000	1761000	1746000	1755000	1768000	1744000	1766000	1731000	1671000	1627000
18	1671000	1658000	1736000	1760000	1760000	1762000	1764000	1744000	1774000	1726000	1671000	1620000
19	1663000	1667000	1743000	1764000	1747000	1758000	1755000	1756000	1778000	1726000	1665000	1620000
20	1659000	1662000	1749000	1756000	1745000	1755000	1761000	1760000	1786000	1725000	1663000	1617000
21	1658000	1661000	1746000	1750000	1744000	1757000	1755000	1761000	1792000	1721000	1663000	1619000
22	1658000	1661000	1748000	1755000	1740000	1756000	1739000	1762000	1794000	1721000	1662000	1616000
23	1659000	1671000	1752000	1762000	1753000	1755000	1750000	1772000	1795000	1722000	1660000	1615000
24	1654000	1676000	1755000	1756000	1743000	1753000	1744000	1774000	1798000	1716000	1662000	1633000
25	1653000	1668000	1755000	1755000	1745000	1749000	1741000	1772000	1799000	1711000	1655000	1624000
26	1654000	1664000	1755000	1749000	1753000	1763000	1740000	1764000	1802000	1709000	1652000	1618000
27	1652000	1667000	1766000	1761000	1754000	1766000	1740000	1760000	1799000	1706000	1650000	1616000
28	1651000	1671000	1754000	1761000	1754000	1759000	1741000	1755000	1796000	1707000	1647000	1614000
29	1653000	1676000	1751000	1758000	1761000	1772000	1736000	1750000	1788000	1703000	1647000	1611000
30	1660000	1671000	1755000	1753000	---	1758000	1732000	1746000	1776000	1709000	1647000	1610000
31	1662000	---	1755000	1755000	---	1755000	---	1744000	---	1710000	1643000	---
MAX	1679000	1676000	1766000	1765000	1766000	1772000	1783000	1793000	1802000	1776000	1703000	1643000
MIN	1651000	1652000	1670000	1749000	1740000	1742000	1732000	1744000	1744000	1703000	1643000	1610000
(+)	130.02	130.13	131.16	131.15	131.22	131.15	130.88	131.03	131.40	130.61	129.79	129.37
(@)	-15000	+9000	+84000	0	+6000	-6000	-23000	+12000	+32000	-66000	-67000	-33000

CAL YR 1999 MAX 1882000 MIN 1651000 (@) +25000
WTR YR 2000 MAX 1802000 MIN 1610000 (@) -67000

e Estimated

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

08066190 LIVINGSTON RESERVOIR NEAR GOODRICH, TX--Continued



PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1969 to current year.
BIOCHEMICAL DATA: Oct 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)
FEB												
17...	1055	1750000	1.00	420	8.4	15.0	1.48	9.8	97	120	15	40
17...	1057	--	10.0	420	8.4	15.0	--	9.8	97	--	--	--
17...	1059	--	20.0	425	8.1	14.0	--	9.4	91	--	--	--
17...	1101	--	30.0	425	7.8	12.5	--	8.9	83	--	--	--
17...	1103	--	40.0	425	7.8	12.5	--	8.7	81	--	--	--
17...	1105	--	50.0	430	7.7	12.5	--	8.7	81	--	--	--
17...	1107	--	60.0	430	7.6	12.0	--	8.0	74	--	--	--
17...	1109	--	74.0	430	7.8	13.0	--	9.5	90	120	14	42
AUG												
29...	1140	1650000	1.00	400	8.7	30.5	1.20	6.0	80	120	--	42
29...	1142	--	10.0	395	8.6	30.0	--	5.2	69	--	--	--
29...	1144	--	20.0	395	8.4	29.5	--	4.2	55	--	--	--
29...	1146	--	30.0	400	8.2	29.5	--	3.4	44	--	--	--
29...	1148	--	40.0	400	7.8	29.5	--	1.8	24	--	--	--
29...	1150	--	50.0	400	7.7	29.5	--	1.6	21	--	--	--
29...	1152	--	60.0	425	7.5	28.0	--	1.6	20	--	--	--
29...	1154	--	69.0	465	7.1	25.5	--	1.5	18	130	--	43

303807095011101 - Livingston Res Site AC

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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											
17...	4.2	30	1	4.9	100	--	42	33	.43	6.1	224
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	4.3	31	1	4.7	110	--	42	33	.42	7.4	231
AUG											
29...	4.3	31	1	6.0	--	130	40	25	.51	7.0	234
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	4.7	34	1	5.9	--	138	27	37	.52	11	255

08066190 LIVINGSTON RESERVOIR NEAR GOODRICH, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

303807095011101 - Livingston Res Site AC

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)	PHOS-PHORUS ORTHO, 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											
17...	--	<.010	.260	<.020	--	.34	.051	.022	.07	<10	<2.2
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	<.010	.341	.080	.35	.43	.050	.035	.11	<10	E1.8
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.291	.015	.306	.272	.38	.65	.053	.043	.13	<10	24
AUG											
29...	--	<.010	<.050	<.020	--	.38	.137	.129	.40	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.059	.013	.072	<.020	--	.40	.154	.129	.40	E6.7	8.4
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.101	.047	.148	.096	.38	.47	.169	.161	.49	32	363
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	<.010	<.050	3.19	.83	4.0	1.55	1.47	4.5	--	--

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
17...	1130	1.00	420	8.4	15.0	1.00	9.6	95
17...	1132	10.0	425	8.4	15.0	--	9.5	94
17...	1134	20.0	425	7.9	13.0	--	9.0	85
17...	1136	30.0	425	7.9	13.0	--	9.0	85
17...	1138	40.0	425	7.9	12.5	--	8.9	83
17...	1140	53.0	425	8.0	13.0	--	9.1	86
AUG								
29...	1215	1.00	395	8.8	31.0	1.10	6.2	83
29...	1217	10.0	395	8.7	30.5	--	5.6	74
29...	1219	20.0	400	8.5	29.5	--	4.2	55
29...	1221	30.0	405	8.4	29.5	--	4.0	52
29...	1223	40.0	405	8.1	29.5	--	2.8	37
29...	1225	53.0	410	7.7	29.5	--	1.5	20

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
17...	1020	1.00	430	8.3	14.0	1.00	10.0	97
17...	1022	10.0	430	8.2	13.5	--	9.9	95
17...	1024	20.0	440	8.0	13.0	--	9.6	91
17...	1026	30.0	440	7.9	12.5	--	9.6	90
17...	1028	40.0	480	7.7	12.0	--	9.2	85
17...	1030	56.0	480	7.9	12.5	--	9.6	90
AUG								
28...	1110	1.00	395	8.7	30.5	.90	6.0	80
28...	1112	10.0	400	8.6	30.0	--	5.2	68
28...	1114	20.0	400	8.5	30.0	--	4.3	57
28...	1116	30.0	400	8.4	30.0	--	4.2	55
28...	1118	40.0	410	8.0	30.0	--	2.4	32
28...	1120	53.0	415	7.7	29.5	--	1.5	20

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
FEB								
17...	0950	1.00	435	8.5	14.5	1.00	9.9	97
17...	0952	10.0	435	8.2	13.5	--	9.4	90
17...	0954	20.0	440	8.0	13.0	--	9.4	89
17...	0956	30.0	465	8.0	13.0	--	9.4	89
17...	0958	40.0	495	7.7	12.0	--	8.8	81
17...	1000	55.0	500	7.8	12.5	--	9.2	86
AUG								
29...	1048	1.00	400	8.8	31.0	.90	6.4	86
29...	1050	10.0	400	8.7	30.0	--	5.5	73
29...	1052	20.0	400	8.5	30.0	--	4.4	58
29...	1054	30.0	400	8.5	30.0	--	4.4	58
29...	1056	40.0	400	8.4	30.0	--	3.6	47
29...	1058	50.0	400	8.1	30.0	--	2.1	28

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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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)
FEB											
17...	0905	1.00	435	8.6	15.0	1.48	9.9	98	--	--	--
17...	0907	10.0	450	8.3	14.0	--	9.4	91	--	--	--
17...	0909	20.0	530	8.1	13.5	--	9.0	86	--	--	--
17...	0911	30.0	545	8.0	13.5	--	8.8	84	--	--	--
17...	0913	40.0	545	7.7	13.0	--	8.5	80	--	--	--
17...	0915	55.0	510	7.8	13.0	--	8.5	80	--	--	--
AUG											
29...	0925	1.00	390	8.8	30.0	.70	6.1	81	120	15	43
29...	0927	10.0	395	8.8	30.0	--	5.9	78	--	--	--
29...	0929	20.0	395	8.7	30.0	--	5.7	75	--	--	--
29...	0931	30.0	395	8.7	30.0	--	5.7	75	--	--	--
29...	0933	43.0	395	8.6	30.0	--	5.6	74	140	25	47

304521095075501 - Livingston Res Site DC

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	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)
FEB											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	1.28
AUG											
29...	4.3	30	1	6.0	109	39	30	.49	8.3	226	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	4.6	30	1	6.0	110	39	33	.50	8.3	235	--

08066190 LIVINGSTON RESERVOIR NEAR GOODRICH, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

304521095075501 - Livingston Res Site DC

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)	PHOS-PHORUS ORTHO, 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										
17...	<.010	.334	<.020	--	.34	E.049	.035	.11	<10	3.2
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.020	1.30	.419	.42	.84	.101	.084	.26	<10	18
AUG										
29...	<.010	<.050	<.020	--	.39	.163	.144	.44	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	<.010	<.050	<.020	--	.42	.184	.150	.46	<10	<2.2
29...	--	--	--	--	--	--	--	--	--	--
29...	<.010	<.050	<.020	--	.39	.179	.152	.47	--	--

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
17...	0855	1.00	425	8.6	15.5	.90	9.3	93
17...	0857	10.0	425	8.6	15.5	--	9.2	92
17...	0859	20.0	425	8.6	15.5	--	9.1	91
AUG								
29...	0910	1.00	390	8.8	30.0	.70	6.4	84
29...	0912	10.0	395	8.8	30.0	--	6.2	82
29...	0914	19.0	395	8.7	30.0	--	6.2	82

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)
FEB										
17...	0840	1.00	430	8.6	15.5	1.48	9.8	98	--	<.010
17...	0842	10.0	440	8.3	14.5	--	9.4	92	--	--
17...	0844	30.0	465	7.9	14.0	--	8.6	83	--	--
17...	0846	30.0	465	7.7	13.5	--	8.6	82	.532	.011
AUG										
29...	0850	1.00	395	8.8	30.0	.75	6.0	79	--	<.010
29...	0852	10.0	395	8.8	30.0	--	6.0	79	--	--
29...	0854	26.0	395	8.7	30.0	--	5.8	77	--	<.010

304659095052001 - Livingston Res Site EC

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)	PHOS-PHORUS ORTHO, 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									
17...	.263	<.020	--	.34	E.035	.023	.07	<10	264
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	.543	.307	.41	.71	E.048	.043	.13	<10	35
AUG									
29...	<.050	<.020	--	.37	.176	.146	.45	<10	5.2
29...	--	--	--	--	--	--	--	--	--
29...	<.050	<.020	--	.39	.165	.150	.46	<10	33

304843095104001 - Livingston Res 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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
FEB								
17...	1245	1.00	555	8.6	16.5	.90	9.3	95
17...	1247	10.0	560	8.3	15.5	--	8.9	89
17...	1249	20.0	570	8.3	15.5	--	8.8	88
17...	1251	30.0	585	8.0	14.5	--	8.3	81
17...	1253	40.0	585	7.9	14.0	--	8.3	80
17...	1255	54.0	585	7.9	14.0	--	8.6	83
AUG								
29...	1310	1.00	410	9.1	32.5	.50	8.4	116
29...	1312	10.0	420	9.0	31.5	--	8.0	108
29...	1314	20.0	435	8.7	31.0	--	4.6	62
29...	1316	30.0	450	8.6	30.5	--	3.3	44
29...	1318	40.0	470	8.5	30.5	--	2.4	32
29...	1320	49.5	470	8.4	30.5	--	2.0	27

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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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)
FEB											
17...	1325	1.00	595	9.0	19.5	1.18	9.1	99	150	34	52
17...	1327	10.0	595	8.9	19.5	--	8.9	97	--	--	--
17...	1329	20.0	595	8.7	17.0	--	8.6	89	--	--	--
17...	1331	30.0	650	8.2	14.5	--	9.1	89	--	--	--
17...	1333	40.0	650	8.2	14.5	--	9.1	89	150	36	52
AUG											
29...	1345	1.00	495	9.2	33.5	.40	11.4	159	150	35	51
29...	1347	10.0	490	8.7	31.0	--	4.0	54	--	--	--
29...	1349	20.0	540	8.3	30.5	--	2.7	36	--	--	--
29...	1351	30.0	540	8.3	30.0	--	2.6	34	--	--	--
29...	1353	40.0	540	8.3	30.0	--	2.5	33	150	20	52

305411095144901 - Livingston Res Site GC

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
17...	5.7	51	2	7.1	120	--	74	56	.74	3.4	337
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	6.0	56	2	7.3	120	--	77	62	.85	5.1	360
AUG											
29...	5.0	44	2	6.8	--	113	54	44	.69	9.2	284
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	5.2	47	2	7.2	--	132	57	47	.74	11	310

08066190 LIVINGSTON RESERVOIR NEAR GOODRICH, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

305411095144901 - Livingston Res Site GC

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)	PHOS-PHORUS ORTHO, 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											
17...	3.06	.022	3.08	<.020	--	.48	.378	.304	.93	<10	<2.2
17...	--	--	--	--	--	--	--	--	--	--	--
17...	2.95	.023	2.98	.032	.50	.54	.345	.284	.87	<10	2.8
17...	--	--	--	--	--	--	--	--	--	--	--
17...	4.51	.033	4.54	.143	.64	.79	.599	.538	1.6	<10	E1.9
AUG											
29...	.044	.039	.083	<.020	--	.48	.224	.177	.54	--	--
29...	.509	.167	.676	<.020	--	.50	.254	.224	.69	<10	<2.2
29...	.600	.207	.807	.030	.50	.53	.275	.225	.69	<10	<2.2
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.597	.204	.801	.036	.50	.53	.278	.231	.71	--	--

305447095161401 - Livingston Res Site HC

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	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)
FEB										
17...	1400	1.00	595	8.9	19.5	.66	9.0	98	2.77	.022
17...	1402	10.0	585	7.8	15.5	--	8.2	82	--	--
17...	1404	20.0	580	7.8	15.5	--	8.2	82	--	--
17...	1406	35.0	580	7.8	15.5	--	8.2	82	1.51	.035
AUG										
29...	1415	1.00	500	9.0	33.0	.30	10.1	140	.046	.080
29...	1417	10.0	535	8.5	30.5	--	4.8	64	--	--
29...	1419	20.0	475	8.0	29.5	--	1.7	22	--	--
29...	1421	36.6	475	7.9	29.5	--	1.6	21	.046	.161

305447095161401 - Livingston Res Site HC

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)	PHOS-PHORUS ORTHO, 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									
17...	2.79	.022	.48	.50	.320	.257	.79	<10	3.2
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	1.55	.221	.47	.69	.114	.104	.32	<10	13
AUG									
29...	.126	<.020	--	.46	.176	.147	.45	<10	6.2
29...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29...	.207	.055	.47	.53	.262	.231	.71	<10	26

305135095193601 - Livingston Res Site IC

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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
24...	1145	1.00	580	8.5	16.5	.70	11.4	116
24...	1147	10.0	595	8.4	15.0	--	9.6	95
24...	1149	20.0	630	8.0	14.0	--	8.5	82
24...	1151	30.0	640	8.0	13.5	--	8.0	77
24...	1153	38.0	645	7.9	13.0	--	7.8	74
AUG								
29...	1500	1.00	730	9.2	33.5	.40	14.0	196
29...	1502	10.0	700	8.5	31.0	--	5.3	71
29...	1504	20.0	755	8.1	31.0	--	2.9	39
29...	1506	36.0	735	8.1	31.0	--	2.9	39

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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)
FEB											
24...	1053	1.00	580	7.7	16.5	.89	11.7	120	150	34	52
24...	1055	10.0	580	7.9	16.5	--	11.4	116	--	--	--
24...	1057	20.0	585	8.5	16.0	--	11.0	111	--	--	--
24...	1059	30.0	600	8.3	15.0	--	9.9	98	--	--	--
24...	1101	35.0	620	8.3	14.0	--	8.2	79	150	42	51
AUG											
29...	1525	1.00	765	9.3	34.5	.40	14.0	200	200	62	71
29...	1527	10.0	795	8.6	31.0	--	5.8	78	--	--	--
29...	1529	20.0	795	8.4	31.0	--	3.6	48	--	--	--
29...	1531	35.0	750	8.3	31.0	--	3.2	43	190	62	67

305135095235401 - Livingston Res Site JC

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	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)
FEB											
24...	5.6	48	2	6.8	120	--	73	55	.69	2.1	332
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	5.8	53	2	7.2	110	--	76	59	.76	5.3	349
AUG											
29...	6.6	82	2	10	--	142	93	84	1.1	9.2	465
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	6.1	75	2	9.3	--	132	86	79	1.1	9.9	433

305135095235401 - Livingston Res Site JC

DATE	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)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, 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											
24...	3.59	.023	3.61	.042	.47	.52	.523	.420	1.3	<10	<2.2
24...	--	--	--	--	--	--	--	--	--	--	--
24...	3.79	.024	3.82	.061	.50	.57	.552	.456	1.4	<10	<2.2
24...	--	--	--	--	--	--	--	--	--	--	--
24...	4.97	.046	5.01	.188	.66	.85	.789	.696	2.1	<10	2.8
AUG											
29...	4.65	.385	5.03	<.020	--	.62	.450	.394	1.2	--	--
29...	4.97	.445	5.42	.022	.59	.61	.561	.516	1.6	<10	<2.2
29...	5.11	.481	5.60	.020	.64	.66	.599	.544	1.7	<10	5.8
29...	3.86	.435	4.29	.047	.66	.71	.475	.414	1.3	--	--

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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 Sep 1972. Specific conductance: Jan 1963 to Sep 1972. Water temperature: Jan 1963 to Sep 1972.

GAGE.--Water-stage recorder. Datum of gage is 100.12 ft above sea level. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1870, about 41 ft in May 1929.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 5	0700	3,280	11.51	No other peak greater than base discharge.			

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

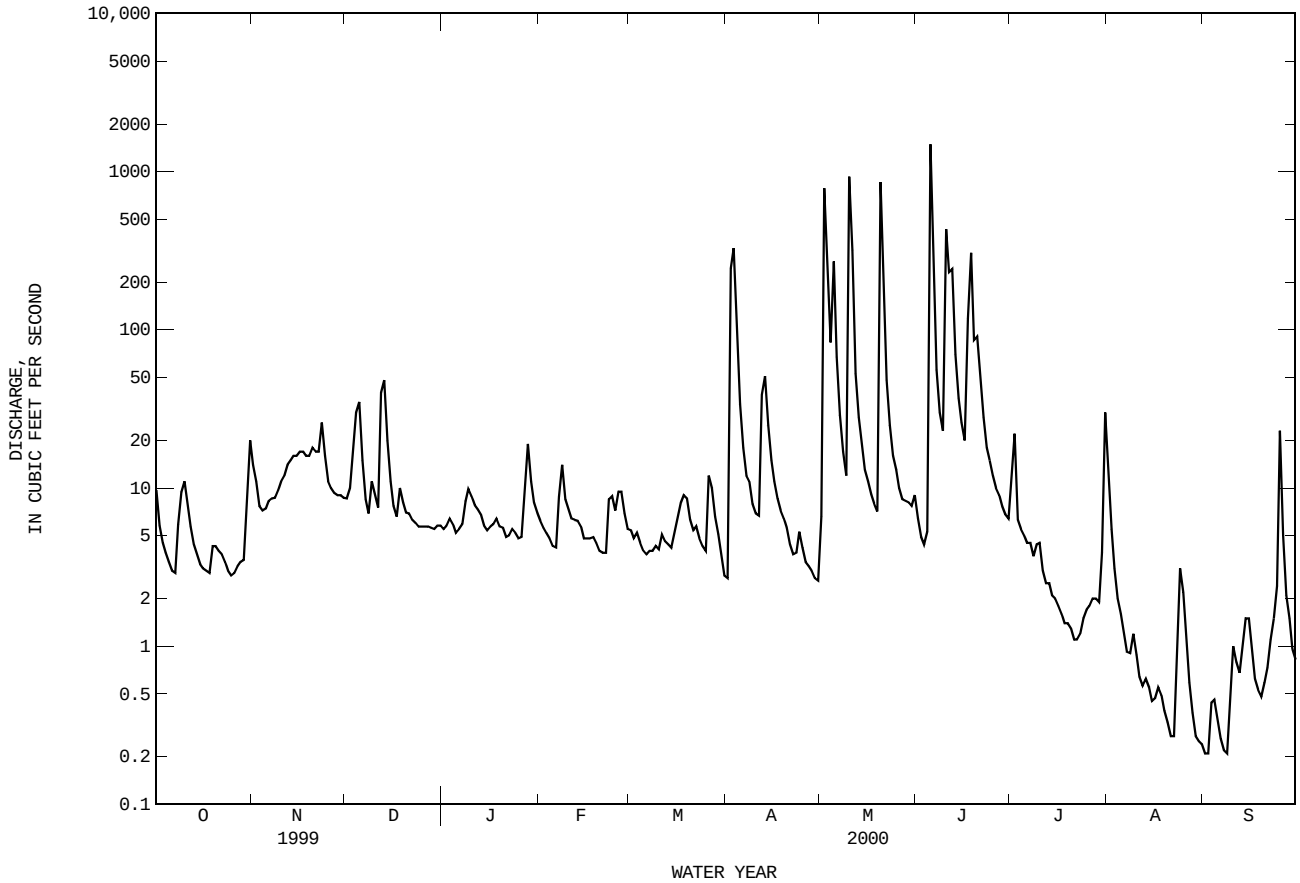
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	14	8.6	5.5	6.2	5.4	2.7	6.6	6.4	13	14	.21
2	5.8	11	10	5.8	5.6	4.8	245	785	4.9	22	5.5	.21
3	4.5	7.7	17	6.4	5.2	5.2	329	204	4.4	6.3	3.1	.44
4	3.9	7.2	30	5.9	4.8	4.5	125	83	5.3	5.5	2.0	.46
5	3.4	7.4	35	5.2	4.3	4.0	34	270	1490	5.0	1.6	.35
6	3.0	8.3	15	5.5	4.2	3.8	18	67	235	4.5	1.2	.26
7	2.9	8.6	8.5	5.9	8.8	4.0	12	29	56	4.5	.92	.22
8	5.9	8.7	6.9	8.2	14	4.0	11	17	30	3.7	.90	.21
9	9.4	9.7	11	9.9	8.5	4.3	7.9	12	23	4.4	1.2	.48
10	11	11	9.1	8.9	7.3	4.1	6.9	930	432	4.5	.88	1.0
11	7.8	12	7.5	7.8	6.4	5.1	6.7	319	232	3.0	.64	.79
12	5.7	14	40	7.3	6.3	4.6	39	53	243	2.5	.56	.68
13	4.4	15	48	6.8	6.2	4.4	51	28	70	2.5	.62	.96
14	3.8	16	20	5.8	5.7	4.2	25	19	37	2.1	.55	1.5
15	3.3	16	11	5.4	4.8	5.3	15	13	26	2.0	.45	1.5
16	3.1	17	7.7	5.7	4.8	6.6	11	11	20	1.8	.47	.92
17	3.0	17	6.6	5.9	4.8	8.1	8.6	9.1	118	1.6	.55	.62
18	2.9	16	10	6.4	4.9	9.0	7.2	8.0	307	1.4	.49	.53
19	4.3	16	8.1	5.7	4.5	8.6	6.4	7.1	86	1.4	.39	.48
20	4.3	18	7.0	5.6	4.0	6.3	5.6	858	91	1.3	.33	.59
21	4.0	17	6.9	4.9	3.9	5.4	4.4	223	49	1.1	.27	.73
22	3.8	17	6.3	5.0	3.9	5.7	3.8	48	28	1.1	.27	1.1
23	3.4	26	6.0	5.5	8.5	4.8	3.9	25	18	1.2	1.1	1.5
24	3.0	16	5.7	5.2	8.9	4.3	5.3	16	15	1.5	3.1	2.4
25	2.8	11	5.7	4.8	7.2	4.0	4.2	13	12	1.7	2.2	23
26	2.9	10	5.7	4.9	9.5	12	3.4	10	10	1.8	1.1	5.0
27	3.2	9.3	5.7	9.7	9.5	10	3.2	8.5	9.0	2.0	.59	2.1
28	3.4	9.0	5.6	19	6.9	6.6	3.0	8.3	7.7	2.0	.38	1.5
29	3.5	9.0	5.5	11	5.5	5.1	2.7	8.1	6.8	1.9	.27	.96
30	9.3	8.7	5.8	8.1	---	3.9	2.6	7.7	6.4	3.9	.25	.82
31	20	---	5.8	7.0	---	2.8	---	9.0	---	30	.24	---
TOTAL	161.4	383.6	381.7	214.7	185.1	170.9	1003.5	4105.4	3678.9	141.2	46.12	51.52
MEAN	5.21	12.8	12.3	6.93	6.38	5.51	33.5	132	123	4.55	1.49	1.72
MAX	20	26	48	19	14	12	329	930	1490	30	14	23
MIN	2.8	7.2	5.5	4.8	3.9	2.8	2.6	6.6	4.4	1.1	.24	.21
AC-FT	320	761	757	426	367	339	1990	8140	7300	280	91	102
CFSM	.04	.09	.09	.05	.05	.04	.24	.94	.87	.03	.01	.01
IN.	.04	.10	.10	.06	.05	.05	.26	1.08	.97	.04	.01	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	69.9	92.3	156	194	179	151	138	134	140	34.7	16.8	30.5
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	.18	.92	2.83	2.79	5.53	3.75	4.06	2.58	.72	.000	.000	.15
(WY)	1966	1989	1971	1971	1971	1971	1971	1963	1971	1971	1971	1967

08066200 LONG KING CREEK AT LIVINGSTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	44504.3		10524.04			
ANNUAL MEAN	122		28.8		112	
HIGHEST ANNUAL MEAN					318	1995
LOWEST ANNUAL MEAN					12.3	1970
HIGHEST DAILY MEAN	7150	Apr 4	1490	Jun 5	30100	Oct 17 1994
LOWEST DAILY MEAN	1.8	Sep 20	.21	Sep 1	.00	Aug 5 1965
ANNUAL SEVEN-DAY MINIMUM	1.9	Sep 18	.29	Aug 28	.00	Jun 28 1971
INSTANTANEOUS PEAK FLOW			3280	Jun 5	50900	Oct 17 1994
INSTANTANEOUS PEAK STAGE			11.51	Jun 5	30.49	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	88270		20870		81430	
ANNUAL RUNOFF (CFSM)	.86		.20		.80	
ANNUAL RUNOFF (INCHES)	11.74		2.78		10.83	
10 PERCENT EXCEEDS	113		29		150	
50 PERCENT EXCEEDS	17		5.8		13	
90 PERCENT EXCEEDS	3.4		.91		.96	



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 Sep 1973. Specific conductance: Oct 1969 to Sep 1973. Water temperature: Oct 1969 to Sep 1973.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Dec 1965, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Livingston Reservoir and twenty-one additional upstream reservoirs with a combined capacity of more than 7,000,000 acre-ft now regulate flow. Streamflow is affected at times by discharge from the flood-detention pools of 252 floodwater-retarding structures with a combined detention capacity of 183,300 acre-ft. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1929, 52.0 ft in May 1942, from information by Texas Department of Transportation and by local residents.

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

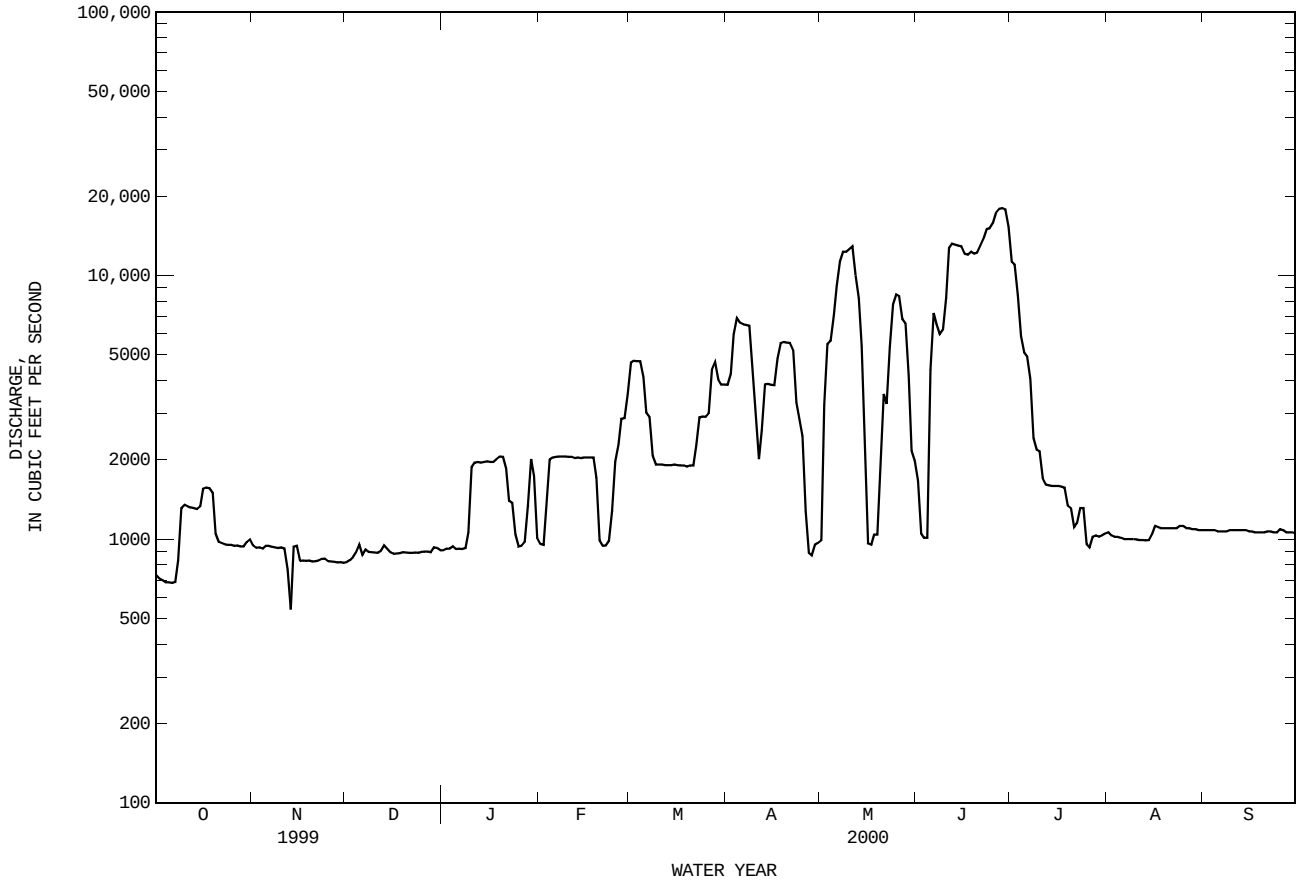
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	729	949	817	908	959	4670	3850	988	1670	11300	1060	1080
2	708	927	831	919	951	4740	4230	3230	1050	11000	1030	1080
3	697	930	856	919	1300	4730	5990	5500	1010	8410	1020	1080
4	685	919	890	937	2000	4730	6900	5660	1010	5890	1020	1080
5	686	943	952	918	2040	4120	6610	7050	4390	5100	1010	1070
6	682	942	869	919	2050	3020	6520	9140	7200	4940	1000	1070
7	688	935	912	918	2060	2910	6490	11300	6520	4060	1000	1070
8	831	929	894	924	2060	2070	6450	12300	5980	2410	1000	1070
9	1310	926	892	1060	2060	1920	4390	12300	6220	2180	1000	1080
10	1350	929	889	1870	2050	1920	2890	12600	8240	2150	998	1080
11	1330	921	888	1950	2050	1920	2010	12900	12700	1700	993	1080
12	1320	770	903	1960	2030	1910	2600	10000	13200	1610	992	1080
13	1310	540	945	1950	2040	1910	3870	8220	13100	1600	990	1080
14	1300	935	918	1960	2030	1910	3880	5390	13000	1590	992	1080
15	1330	944	889	1970	2040	1920	3850	1970	12900	1590	1040	1070
16	1550	828	880	1960	2040	1910	3840	962	12100	1590	1120	1070
17	1570	830	883	1960	2040	1900	4840	950	12000	1580	1110	1060
18	1560	827	884	2010	2040	1900	5540	1040	12300	1570	1100	1060
19	1500	829	893	2060	1710	1880	5590	1040	12100	1340	1100	1060
20	1050	822	890	2050	990	1900	5570	2110	12200	1310	1100	1060
21	975	825	886	1850	942	1900	5550	3550	13000	1110	1100	1070
22	964	829	887	1400	946	2260	5220	3250	13800	1150	1100	1070
23	953	840	889	1370	980	2890	3300	5370	15000	1310	1100	1060
24	952	844	888	1040	1280	2920	2880	7760	15100	1310	1120	1060
25	950	824	894	937	1970	2910	2460	8460	15800	957	1120	1090
26	944	822	898	942	2280	3000	1280	8340	17300	931	1100	1080
27	945	820	897	975	2860	4390	886	6850	17900	1020	1100	1060
28	938	816	892	1340	2880	4690	868	6590	18000	1030	1090	1060
29	939	817	929	2010	3560	4040	952	4150	17800	1020	1090	1060
30	974	813	924	1740	---	3860	967	2160	15300	1030	1080	1050
31	997	---	907	1010	---	3860	---	1980	---	1050	1080	---
TOTAL	32717	25825	27666	44736	54238	90610	120273	183110	327890	84838	32755	32120
MEAN	1055	861	892	1443	1870	2923	4009	5907	10930	2737	1057	1071
MAX	1570	949	952	2060	3560	4740	6900	12900	18000	11300	1120	1090
MIN	682	540	817	908	942	1880	868	950	1010	931	990	1050
AC-FT	64890	51220	54880	88730	107600	179700	238600	363200	650400	168300	64970	63710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	3549	6499	8825	9257	9882	11800	11120	14710	12150	4531	2220	2058
MAX	25630	30260	30270	45550	38660	40490	30750	57850	32120	24310	6819	15230
(WY)	1974	1975	1992	1992	1992	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	1911560		1056778			
ANNUAL MEAN	5237		2887		7985	
HIGHEST ANNUAL MEAN					18310	1992
LOWEST ANNUAL MEAN					746	1971
HIGHEST DAILY MEAN	47900	Feb 1	18000	Jun 28	120000	Oct 18 1994
LOWEST DAILY MEAN	540	Nov 13	540	Nov 13	191	Aug 6 1971
ANNUAL SEVEN-DAY MINIMUM	696	Oct 1	696	Oct 1	240	Aug 16 1972
INSTANTANEOUS PEAK FLOW			18100	Jun 29	125000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			19.79	Jun 29	48.97	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	3792000		2096000		5785000	
10 PERCENT EXCEEDS	11500		7100		23400	
50 PERCENT EXCEEDS	2420		1220		2720	
90 PERCENT EXCEEDS	786		888		768	

08066250 TRINITY RIVER NEAR GOODRICH, TX--Continued



08066300 MENARD CREEK NEAR RYE, TX

LOCATION.--Lat 30°28′52", long 94°46′46", 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: Maximum discharge 14,200 ft^3/s on Apr 5, 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.32 ft above sea level. Sep 1974 to Aug 1976, wire-weight gage read twice daily. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage in water year 1966, at least 10% contributing drainage area has been regulated by Bear Foot Lake (capacity 3,207 acre-ft) on Mill Creek, located 0.5 mi upstream from station. No known diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1929 reached a stage of about 39.4 ft, from information by the Texas Department of Transportation. Flood in Sep 1961 reached a stage of about 34.0 ft, from information by local resident. Flood of May 1929 may have been equalled or exceeded by other floods during the period 1929-65.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	25	25	28	35	29	23	19	18	19	13	10
2	46	30	25	28	32	27	75	e58	17	18	13	10
3	33	35	29	28	31	26	130	e110	17	18	18	11
4	27	29	35	28	29	25	171	e200	17	20	30	12
5	24	25	49	27	28	24	197	e300	20	22	17	10
6	22	24	58	27	27	23	139	e280	20	18	14	9.8
7	22	23	63	27	28	23	68	e180	27	18	12	9.6
8	35	23	49	27	30	23	52	e85	45	17	12	9.7
9	33	22	39	28	29	23	43	56	30	17	12	11
10	44	22	36	28	31	23	38	46	33	16	12	11
11	37	22	34	28	34	22	35	39	33	17	11	e18
12	33	22	40	29	32	22	37	36	e79	16	11	e17
13	29	22	39	30	30	22	39	32	e146	15	11	12
14	26	22	48	28	29	23	43	31	e141	15	11	12
15	24	22	49	28	28	24	49	29	73	14	11	12
16	24	21	44	27	28	42	42	27	50	14	11	12
17	23	21	38	27	27	59	36	25	40	14	10	11
18	23	20	35	26	27	43	33	25	35	14	10	11
19	23	20	34	26	26	36	30	25	33	13	9.8	14
20	23	21	33	26	25	32	29	31	34	13	9.9	11
21	22	21	33	26	24	29	27	34	34	13	9.6	12
22	22	21	33	26	24	29	24	32	33	13	9.6	14
23	22	23	32	26	26	28	23	32	34	13	9.6	12
24	22	23	31	25	27	27	23	30	29	13	19	12
25	21	23	30	25	29	27	22	e27	26	13	25	13
26	21	32	30	25	35	29	21	e25	24	12	13	12
27	21	37	29	26	35	30	20	e24	22	12	12	12
28	20	31	29	34	33	30	20	e23	21	12	11	12
29	20	28	29	36	31	34	20	e21	21	12	11	13
30	22	26	29	44	---	31	19	e21	20	12	12	13
31	24	---	28	42	---	26	---	21	---	13	11	---
TOTAL	823	736	1135	886	850	891	1528	1924	1172	466	401.5	359.1
MEAN	26.5	24.5	36.6	28.6	29.3	28.7	50.9	62.1	39.1	15.0	13.0	12.0
MAX	46	37	63	44	35	59	197	300	146	22	30	18
MIN	20	20	25	25	24	22	19	19	17	12	9.6	9.6
AC-FT	1630	1460	2250	1760	1690	1770	3030	3820	2320	924	796	712

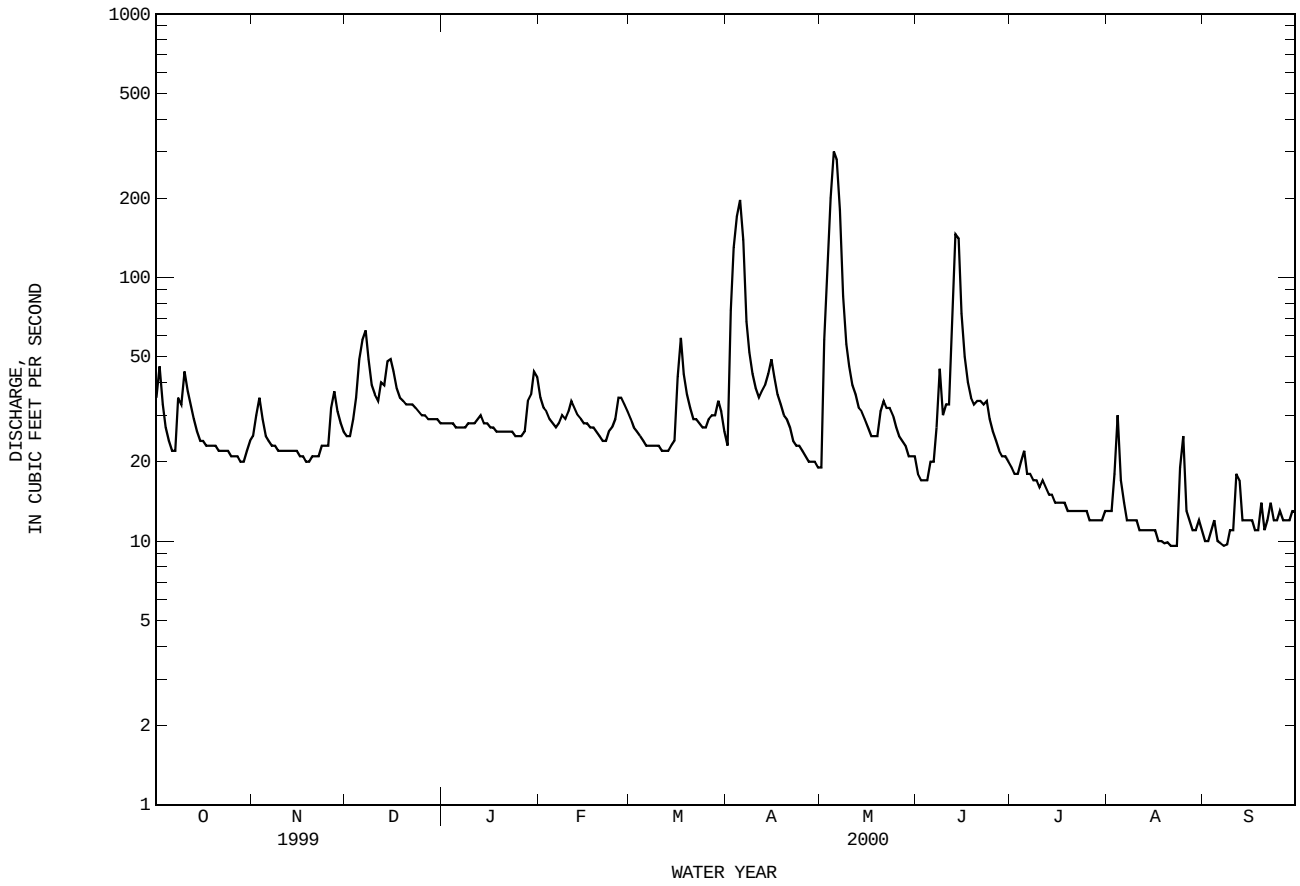
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	78.6	91.1	158	214	222	184	182	185	144	63.1	44.7	49.4
MAX	1092	595	457	777	727	528	977	757	788	464	354	192
(WY)	1995	1999	1975	1974	1992	1997	1979	1983	1986	1989	1983	1983
MIN	3.42	3.55	8.05	14.6	14.0	13.5	9.77	21.8	8.72	4.52	5.47	4.43
(WY)	1968	1968	1968	1971	1971	1971	1971	1996	1971	1971	1967	1967

08066300 MENARD CREEK NEAR RYE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	57917		11171.6			
ANNUAL MEAN	159		30.5		136	
HIGHEST ANNUAL MEAN					279	1975
LOWEST ANNUAL MEAN					14.7	1971
HIGHEST DAILY MEAN	8820	Apr 5	300	May 5	12000	Oct 18 1994
LOWEST DAILY MEAN	18	Sep 20	9.6	Aug 21	2.6	Nov 1 1967
ANNUAL SEVEN-DAY MINIMUM	18	Sep 20	9.8	Aug 17	2.9	Nov 1 1967
INSTANTANEOUS PEAK FLOW			Uknown		14200	Apr 5 1999
INSTANTANEOUS PEAK STAGE			Uknown		31.41	Apr 5 1999
ANNUAL RUNOFF (AC-FT)	114900		22160		98210	
10 PERCENT EXCEEDS	221		43		280	
50 PERCENT EXCEEDS	62		25		48	
90 PERCENT EXCEEDS	22		12		14	

e Estimated



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 Sep 1951, Oct 1953 to Sep 1995. Biochemical data: Feb 1968 to Sep 1995. Pesticide data: Feb 1968 to Jul 1981, Aug 1983 to Sep 1995. Sediment data: Mar 1959 to Sep 1995. Suspended sediment data: Oct 1954 to Sep 1955, Oct 1968 to Sep 1971. Specific conductance: Oct 1941 to Sep 1942, Jan 1944 to Sep 1951, Oct 1953 to Sep 1994. Water temperature: Oct 1941 to Sep 1950, Oct 1953 to Sep 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 sea level. 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 (Sep 15, 1975 to Jun 16, 1977) at present site and at datum 10.00 ft higher than current datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft). Additional regulation since Sep 28, 1968, by Livingston Reservoir (station 08066190, conservation pool storage 1,750,000 acre-ft), 35 mi upstream. There are no known large diversions between Livingston Reservoir and this station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

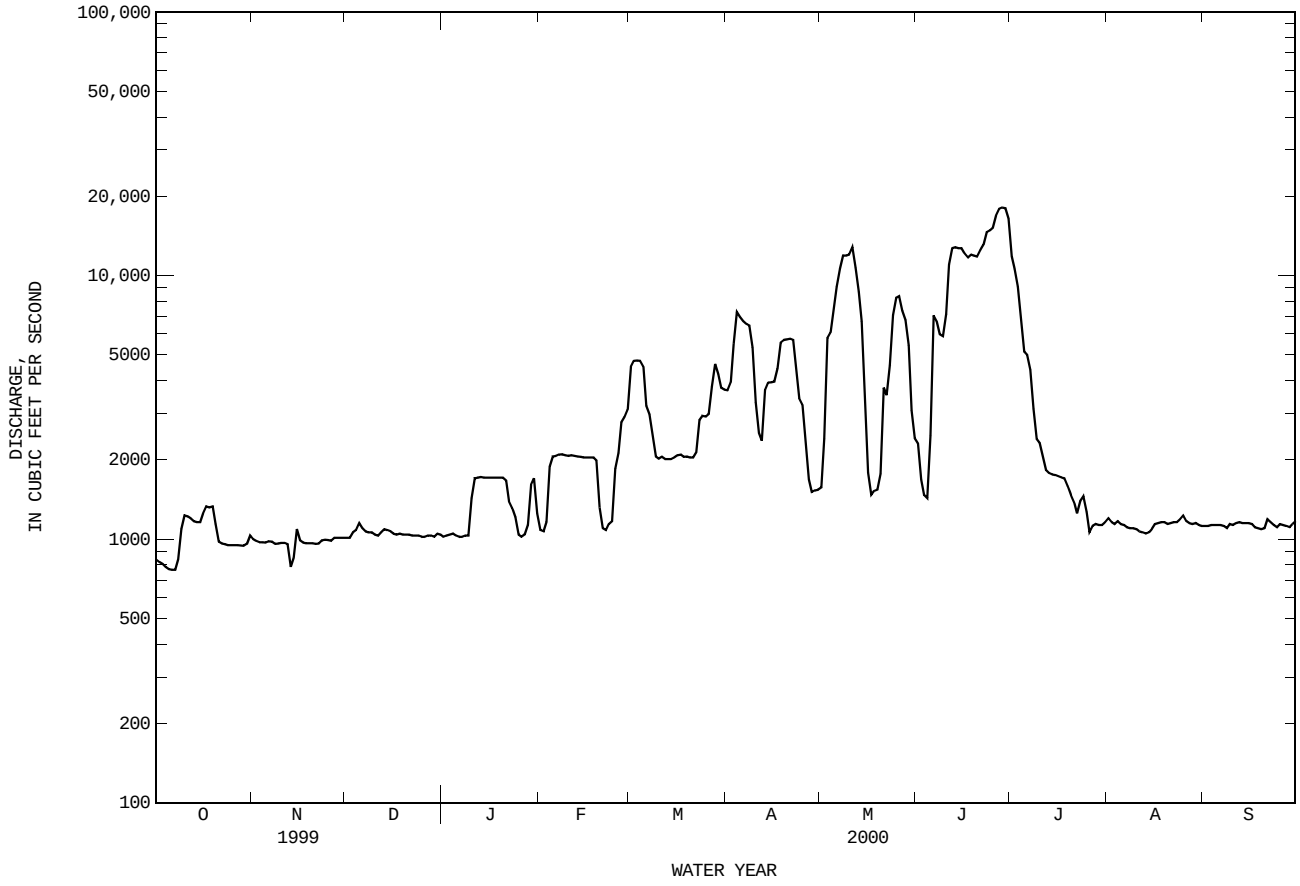
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	1000	1010	1020	1080	4510	3670	1570	2310	11800	1200	1120
2	817	984	1010	1030	1070	4740	3940	2400	1680	10600	1160	1120
3	805	972	1060	1040	1160	4760	5510	5780	1470	9070	1140	1130
4	784	972	1080	1050	1880	4740	7280	6080	1430	6700	1170	1130
5	770	969	1150	1030	2060	4510	6970	7550	2470	5150	1140	1130
6	764	981	1100	1020	2070	3200	6720	9090	7060	5000	1130	1130
7	764	978	1070	1020	2090	2970	6540	10600	6730	4390	1110	1120
8	837	960	1060	1030	2100	2450	6450	11900	5990	3120	1100	1100
9	1090	962	1060	1030	2080	2060	5340	11900	5890	2400	1100	1140
10	1230	967	1040	1430	2070	2020	3300	12000	7130	2320	1090	1130
11	1220	968	1030	1700	2080	2050	2520	12800	11000	2070	1070	1150
12	1200	957	1060	1710	2070	2010	2360	10700	12700	1830	1060	1160
13	1170	784	1090	1720	2060	2010	3670	8680	12800	1780	1050	1150
14	1160	848	1080	1710	2050	2010	3920	6720	12700	1760	1060	1150
15	1160	1090	1070	1710	2040	2040	3940	3600	12700	1750	1090	1150
16	1250	988	1050	1710	2040	2080	3960	1790	12100	1730	1140	1140
17	1330	969	1040	1710	2040	2090	4440	1470	11700	1710	1150	1110
18	1320	965	1050	1710	2040	2050	5560	1520	12000	1700	1160	1100
19	1330	965	1040	1710	1990	2060	5690	1540	11900	1590	1160	1090
20	1140	964	1040	1710	1320	2040	5730	1770	11800	1470	1140	1100
21	978	958	1040	1670	1100	2040	5760	3750	12500	1380	1150	1190
22	961	961	1030	1390	1080	2130	5690	3520	13100	1250	1160	1160
23	955	990	1030	1310	1140	2820	4360	4560	14600	1390	1160	1130
24	948	994	1030	1210	1170	2930	3420	7070	14800	1450	1190	1110
25	948	993	1020	1040	1850	2920	3240	8240	15200	1270	1230	1140
26	948	987	1020	1020	2120	2980	2280	8350	16900	1060	1170	1130
27	948	1010	1030	1040	2770	3790	1680	7350	17900	1120	1150	1120
28	946	1010	1030	1130	2900	4620	1510	6760	18100	1140	1140	1110
29	944	1010	1020	1610	3100	4220	1530	5450	18000	1130	1150	1140
30	960	1010	1050	1700	---	3750	1540	3080	16400	1130	1130	1170
31	1030	---	1040	1250	---	3690	---	2410	---	1160	1120	---
TOTAL	31544	29166	32530	42170	54620	92290	128520	190000	321060	91420	35170	33950
MEAN	1018	972	1049	1360	1883	2977	4284	6129	10700	2949	1135	1132
MAX	1330	1090	1150	1720	3100	4760	7280	12800	18100	11800	1230	1190
MIN	764	784	1010	1020	1070	2010	1510	1470	1430	1060	1050	1090
AC-FT	62570	57850	64520	83640	108300	183100	254900	376900	636800	181300	69760	67340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2000, BY WATER YEAR (WY)

MEAN	3348	5471	7864	9349	9900	11370	10720	15310	11510	4492	1888	2034
MAX	25380	31160	43240	51740	44510	46100	65710	62000	45120	28480	10140	14850
(WY)	1974	1999	1941	1992	1992	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1924 - 2000	
ANNUAL TOTAL	2218139		1082440			
ANNUAL MEAN	6077		2957		7770	
HIGHEST ANNUAL MEAN					20630	1992
LOWEST ANNUAL MEAN					730	1971
HIGHEST DAILY MEAN	54800	Feb 2	18100	Jun 28	117000	Oct 19 1994
LOWEST DAILY MEAN	754	Sep 22	764	Oct 6	104	Aug 23 1956
ANNUAL SEVEN-DAY MINIMUM	759	Sep 20	792	Oct 1	106	Aug 20 1956
INSTANTANEOUS PEAK FLOW			18200	Jun 28	122000	Oct 19 1994
INSTANTANEOUS PEAK STAGE			22.60	Jun 28	45.80	May 9 1942
ANNUAL RUNOFF (AC-FT)	4400000		2147000		5629000	
10 PERCENT EXCEEDS	13800		7180		22200	
50 PERCENT EXCEEDS	2710		1320		2680	
90 PERCENT EXCEEDS	841		983		553	

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 Sep 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 Sep 1972. Biochemical data: Oct 1970 to Sep 1972. Pesticide data: May 1971 to Sep 1972.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2.22 ft below sea level; 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 fair. Discharges for current year were computed using stage discharge relationship. 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 by Lake Worth (station 08045400, conservation pool storage 38,130 acre-ft), Livingston Reservoir (station 08066190, conservation pool storage 1,750,000 acre-ft), and other major reservoirs. 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, 14,600 ft^3/s, Jun 29 at 2245 hours, gage height, 19.46 ft; minimum discharge not determined (affected by tides); minimum gage height, 4.36 ft, Oct 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	12800	---	---
2	---	---	---	---	---	---	---	---	---	10400	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	10000	---	---	---	---
12	---	---	---	---	---	---	---	10200	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	10000	---	---	---
15	---	---	---	---	---	---	---	---	10100	---	---	---
16	---	---	---	---	---	---	---	---	10000	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	10500	---	---	---
24	---	---	---	---	---	---	---	---	11400	---	---	---
25	---	---	---	---	---	---	---	---	11600	---	---	---
26	---	---	---	---	---	---	---	---	12100	---	---	---
27	---	---	---	---	---	---	---	---	13200	---	---	---
28	---	---	---	---	---	---	---	---	13900	---	---	---
29	---	---	---	---	---	---	---	---	14200	---	---	---
30	---	---	---	---	---	---	---	---	14200	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

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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. Mean sea level of gage not determined. Satellite telemeter at station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	784	740	725	724	685	734	748	808	841	817	733	847
2	825	736	751	727	651	744	748	760	764	807	753	873
3	792	734	699	641	671	745	749	679	784	800	734	870
4	789	734	674	643	693	717	754	721	798	793	692	822
5	788	733	694	702	714	693	700	759	794	792	716	869
6	e761	733	718	747	719	698	674	698	788	797	778	918
7	789	749	716	722	719	686	673	700	816	819	804	919
8	733	777	711	688	705	569	668	723	797	845	823	865
9	720	769	703	629	690	791	667	774	721	848	845	804
10	748	769	692	605	687	775	700	807	690	842	842	805
11	746	766	695	611	696	710	703	884	758	813	841	803
12	747	764	700	666	682	718	675	833	821	800	790	799
13	827	764	692	691	649	723	728	714	839	794	764	795
14	805	764	686	682	654	684	686	706	837	811	771	795
15	803	720	711	693	712	689	678	793	839	855	840	795
16	742	714	774	692	753	689	679	815	768	882	852	795
17	706	712	792	688	744	689	754	825	693	888	862	795
18	723	799	790	689	700	690	756	833	718	876	863	795
19	669	775	694	693	657	725	766	811	774	872	864	797
20	654	784	665	696	640	736	769	676	792	883	864	810
21	690	772	664	698	640	768	766	645	784	853	844	837
22	731	756	655	702	670	779	794	711	818	815	826	837
23	757	686	657	700	683	710	810	723	847	814	826	837
24	774	683	713	692	682	698	806	761	847	717	745	837
25	774	681	734	685	683	698	791	774	847	714	738	789
26	774	679	759	698	694	732	805	774	831	818	793	739
27	774	679	767	664	728	744	818	770	815	823	800	713
28	799	678	761	621	729	742	809	813	819	753	800	713
29	780	678	763	621	733	748	776	783	819	708	836	746
30	756	678	759	659	---	745	774	829	821	713	873	813
31	707	---	729	674	---	744	---	841	---	775	855	---
TOTAL	23467	22006	22243	21043	20063	22313	22224	23743	23880	25137	24967	24432
MEAN	757	734	718	679	692	720	741	766	796	811	805	814
MAX	827	799	792	747	753	791	818	884	847	888	873	919
MIN	654	678	655	605	640	569	667	645	690	708	692	713
AC-FT	46550	43650	44120	41740	39790	44260	44080	47090	47370	49860	49520	48460

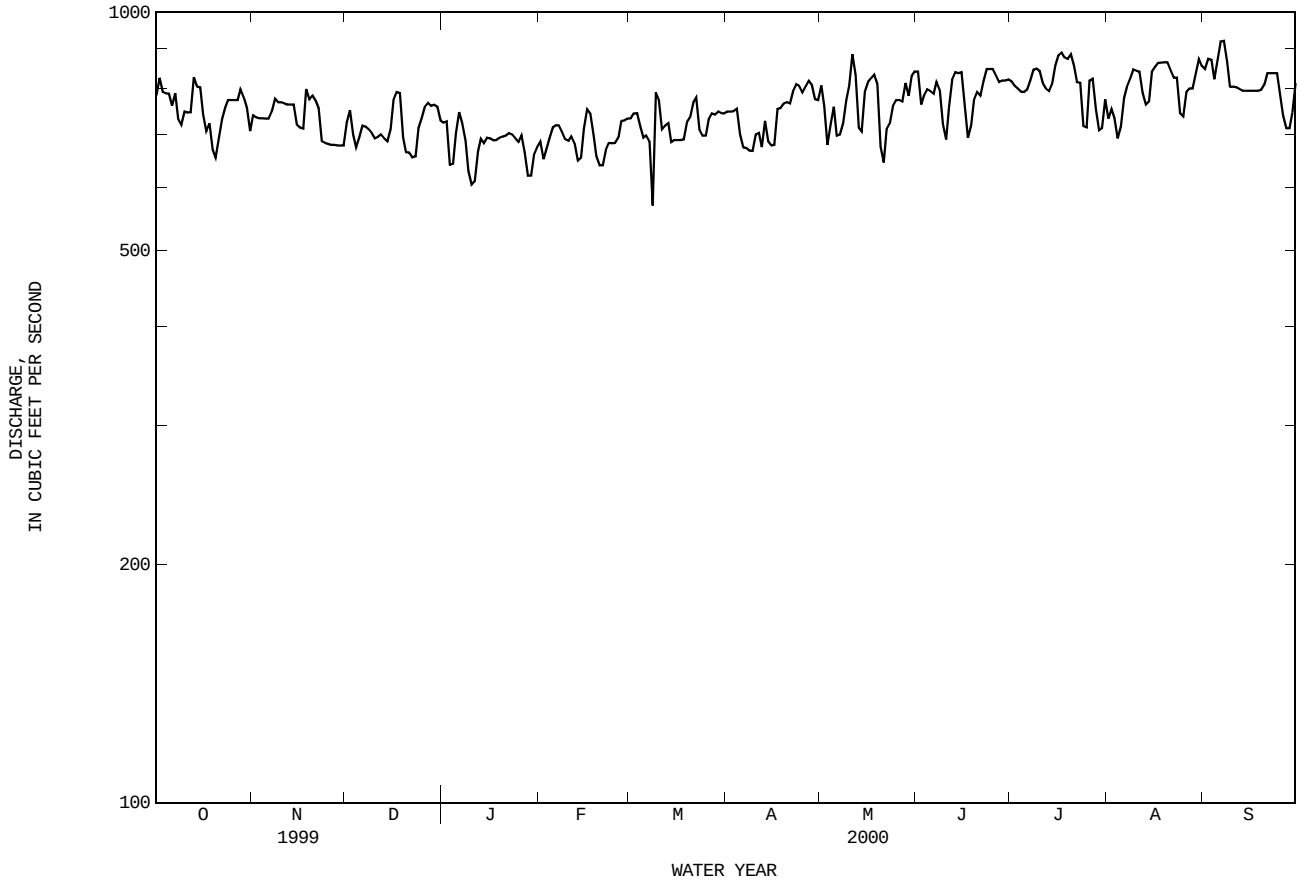
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000, BY WATER YEAR (WY)

MEAN	474	454	438	437	446	462	494	519	547	565	540	513
MAX	757	734	718	710	716	720	741	831	973	888	875	814
(WY)	2000	2000	2000	1999	1999	2000	2000	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000	
ANNUAL TOTAL	276014		275518			
ANNUAL MEAN	756		753		496	
HIGHEST ANNUAL MEAN					764	1998
LOWEST ANNUAL MEAN					259	1983
HIGHEST DAILY MEAN	1050	Aug 17	919	Sep 7	1080	Jun 24 1998
LOWEST DAILY MEAN	514	Jul 22	569	Mar 8	52	Aug 18 1983
ANNUAL SEVEN-DAY MINIMUM	646	Jan 7	653	Jan 8	167	Aug 18 1983
INSTANTANEOUS PEAK FLOW			1060	Sep 5	1220	Jun 2 1998
INSTANTANEOUS PEAK STAGE			3.02	Sep 5	3.07	Jun 2 1998
ANNUAL RUNOFF (AC-FT)	547500		546500		359200	
10 PERCENT EXCEEDS	839		839		754	
50 PERCENT EXCEEDS	761		750		464	
90 PERCENT EXCEEDS	675		678		253	

e Estimated

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 sea level. 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, 10.3 ft, Jul 1, 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.4	7.1	<6.8	8.2	8.2	7.4	7.5	7.4	10.3	7.0	7.2
2	7.3	7.4	7.4	<6.8	8.0	8.4	7.3	8.0	7.3	10.1	7.1	7.1
3	7.4	7.3	7.7	<6.8	8.1	8.2	7.1	8.2	7.2	9.7	7.2	7.1
4	7.2	7.3	8.0	<6.8	8.2	7.6	<6.8	8.4	7.2	9.3	7.3	7.0
5	7.1	7.3	8.2	<6.8	8.4	7.1	7.2	8.5	6.9	8.8	7.2	7.0
6	7.1	7.3	8.2	<6.8	8.8	7.0	7.5	8.6	6.8	8.3	7.1	6.9
7	7.1	7.3	7.9	<6.8	8.8	7.1	7.6	8.8	6.9	7.9	7.0	7.0
8	7.1	7.3	7.6	<6.8	8.5	7.1	7.2	9.0	7.5	7.5	7.2	7.0
9	7.6	7.3	7.4	7.0	8.1	6.9	7.3	9.3	7.7	7.1	7.2	7.2
10	7.4	7.3	6.9	7.1	7.8	7.1	7.6	9.4	7.9	7.1	7.2	7.3
11	7.1	7.3	6.9	7.2	7.6	<6.8	7.5	9.5	8.1	7.1	7.1	7.3
12	7.0	7.3	7.3	7.3	7.4	<6.8	7.3	9.7	8.3	<6.8	7.1	7.4
13	7.1	7.3	6.9	7.0	7.5	<6.8	6.9	9.5	8.7	<6.8	7.1	7.4
14	7.0	7.2	<6.8	<6.8	7.5	<6.8	<6.8	9.0	9.1	<6.8	7.2	7.5
15	7.2	7.2	<6.8	6.9	7.5	7.2	<6.8	8.6	9.2	<6.8	7.2	7.5
16	7.4	7.2	<6.8	<6.8	7.6	7.1	7.2	8.2	9.4	<6.8	7.1	7.4
17	7.7	7.2	<6.8	<6.8	7.6	7.1	6.9	8.1	9.6	<6.8	7.1	7.4
18	7.9	7.2	<6.8	<6.8	7.7	7.1	6.9	8.0	9.5	<6.8	7.1	7.4
19	7.6	7.3	<6.8	<6.8	7.6	7.1	7.3	7.8	9.3	<6.8	7.1	7.5
20	7.3	7.3	6.9	<6.8	7.5	6.9	7.3	9.0	9.3	<6.8	7.0	7.5
21	7.4	7.3	<6.8	<6.8	7.4	7.4	6.9	9.4	9.3	<6.8	7.0	7.6
22	7.4	7.4	<6.8	7.2	7.2	7.5	7.0	9.4	9.3	<6.8	7.0	7.7
23	7.4	7.5	<6.8	7.1	7.2	7.5	7.7	9.1	9.2	<6.8	7.1	7.8
24	7.4	7.6	<6.8	<6.8	7.1	7.6	7.4	8.8	9.3	<6.8	7.3	7.8
25	7.3	7.6	<6.8	<6.8	7.3	7.7	7.1	8.7	9.5	<6.8	7.3	7.8
26	7.3	7.6	<6.8	<6.8	7.6	7.8	7.0	8.9	9.6	<6.8	7.2	7.7
27	7.2	7.6	<6.8	<6.8	7.6	7.7	6.9	9.1	9.8	<6.8	7.3	7.7
28	7.2	7.6	<6.8	6.9	7.7	7.5	<6.8	8.8	10.1	<6.8	7.3	7.7
29	7.2	7.6	<6.8	7.2	8.0	7.5	<6.8	8.4	10.2	6.9	7.3	7.7
30	7.4	7.5	<6.8	7.6	---	7.1	7.0	8.1	10.3	7.0	7.3	7.6
31	7.4	---	<6.8	7.9	---	7.0	---	7.6	---	6.9	7.2	---
MAX	7.9	7.6	8.2	7.9	8.8	8.4	7.7	9.7	10.3	10.3	7.3	7.8

< 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 Jun 1995.

REMARKS.--Interruption in the record was caused by malfunctions of the instrumentation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 4,560 microsiemens, Nov 17, 1997; minimum recorded, 46 microsiemens, Oct 20, 1994.
WATER TEMPERATURES: Maximum recorded, 38.7°C, Jul 18, 1998; minimum recorded, 4.1°C, Nov 17, 1998.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,240 microsiemens, Oct 4; minimum, 229 microsiemens, May 20.
WATER TEMPERATURE: Maximum, 37.8°C, Jul 15, 16; minimum, 8.0°C, Jan 26, 30, 31.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3360	2450	2910	4080	3880	4000	3370	2980	3250	---	---	---
2	3600	2670	3280	4070	3390	3780	3370	2770	3110	1980	1010	1370
3	4040	3570	3840	3700	3390	3560	2830	2720	2780	1160	1040	1060
4	4240	3730	4030	3680	3400	3480	2720	1810	2210	1490	988	1270
5	3830	3650	3740	3780	3540	3680	2180	1370	1800	1340	1250	1210
6	3880	3430	3720	3670	3530	3570	1610	1420	1530	1300	1240	1250
7	---	---	---	3650	3550	3600	2060	1560	1760	1700	1280	1430
8	---	---	---	3670	3550	3610	2540	2060	2350	1790	1010	1370
9	---	---	---	3620	3560	3590	2570	1990	2320	---	---	---
10	---	---	---	3610	3520	3570	2170	1930	2070	1150	985	1090
11	---	---	---	3590	3530	3570	2610	2160	2440	1220	850	1050
12	---	---	---	3610	3560	3580	2480	2130	2270	955	596	782
13	---	---	---	3630	3580	3600	2290	1680	1960	1040	599	750
14	---	---	---	3630	3560	3590	2040	1940	2020	1340	841	1000
15	---	---	---	3590	3530	3560	---	---	---	1350	913	1120
16	---	---	---	3780	3570	3670	---	---	---	1020	878	929
17	---	---	---	3710	3600	3650	2210	1840	1960	1120	931	979
18	---	---	---	3690	3410	3600	2180	1460	1820	991	917	960
19	---	---	---	3410	3040	3190	2000	1550	1680	917	844	873
20	---	---	---	3410	3130	3260	2090	1440	1760	926	602	799
21	---	---	---	3370	3080	3250	1780	1020	1300	1070	890	969
22	---	---	---	3140	3030	3080	1530	1080	1250	1080	875	952
23	---	---	---	3040	2970	3010	1570	1160	1310	921	815	859
24	---	---	---	3180	3020	3100	1770	1180	1390	849	723	780
25	---	---	---	3200	2510	2980	1710	1360	1380	1210	658	895
26	---	---	---	2820	2670	2760	---	---	---	763	682	718
27	---	---	---	2680	2630	2660	---	---	---	868	621	755
28	---	---	---	2670	2630	2650	---	---	---	739	651	690
29	4060	3820	3990	2720	2650	2670	---	---	---	758	441	597
30	3970	3780	3870	2980	2720	2850	---	---	---	642	482	601
31	3960	3860	3910	---	---	---	---	---	---	724	532	617
MONTH	---	---	---	4080	2510	3360	---	---	---	---	---	---

08067118 LAKE CHARLOTTE NEAR ANAHUAC, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	601	439	533	638	573	614	683	537	587	545	490	499
2	620	510	570	638	459	526	629	543	589	495	448	462
3	581	507	537	463	438	445	543	437	499	459	445	452
4	598	540	558	546	449	495	542	482	503	460	431	447
5	605	554	576	828	522	738	532	475	506	460	435	447
6	640	519	608	915	703	833	616	463	529	454	440	445
7	554	477	526	922	565	697	519	371	447	451	359	401
8	583	504	533	731	588	650	455	382	419	413	352	378
9	709	512	581	666	590	637	546	432	503	433	361	399
10	620	509	545	659	562	638	504	478	488	423	408	413
11	553	511	536	633	562	600	503	482	491	429	406	415
12	627	508	582	649	590	624	503	338	438	452	427	439
13	634	545	578	929	582	722	514	417	443	466	449	457
14	600	538	570	993	640	887	497	458	476	459	448	455
15	582	538	567	795	586	660	514	470	488	458	446	454
16	601	565	575	750	604	652	492	439	473	467	451	458
17	600	555	587	700	630	663	461	437	450	472	444	453
18	590	540	572	713	580	655	455	439	448	470	446	455
19	606	550	580	672	534	582	450	425	433	471	454	461
20	780	599	688	592	545	574	443	423	433	468	229	304
21	793	650	726	790	578	653	448	434	441	373	324	354
22	920	611	767	605	518	571	490	447	474	341	293	327
23	727	614	676	528	454	473	484	463	475	312	256	290
24	724	633	662	484	430	469	465	432	449	288	255	271
25	740	601	646	491	435	470	502	442	464	291	269	282
26	740	605	634	508	474	484	483	448	464	290	279	285
27	679	641	654	508	473	490	480	454	466	365	286	325
28	679	612	650	597	497	519	474	452	462	366	340	355
29	669	564	634	529	501	509	549	472	511	361	334	349
30	---	---	---	553	513	525	559	503	538	350	338	343
31	---	---	---	683	524	628	---	---	---	356	345	351
MONTH	920	439	602	993	430	603	683	338	480	545	229	394

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	360	334	347	431	413	426	475	420	451	549	538	543
2	362	307	335	426	416	421	449	426	439	553	540	547
3	335	319	328	424	416	419	456	435	446	552	539	547
4	338	317	325	429	416	421	467	449	458	553	540	546
5	328	318	322	428	414	421	470	461	466	560	547	554
6	339	306	325	420	406	413	478	459	469	584	555	568
7	331	302	322	418	383	403	479	459	470	601	543	571
8	343	310	326	419	399	407	488	468	478	576	551	564
9	414	330	357	429	407	418	497	402	470	570	553	562
10	399	342	370	428	407	417	523	469	503	565	543	554
11	383	342	367	431	413	423	538	507	526	560	478	542
12	388	356	373	448	429	438	550	529	539	559	476	529
13	410	387	395	454	414	441	549	536	542	555	539	547
14	415	381	403	448	420	437	564	542	554	546	498	529
15	414	403	411	464	426	442	558	544	551	512	491	505
16	426	414	418	462	442	449	555	541	550	522	493	510
17	424	414	419	473	447	459	549	539	545	527	495	516
18	437	416	426	485	453	468	554	545	551	530	473	502
19	445	437	441	469	458	463	559	549	555	502	493	498
20	444	429	438	477	463	470	565	552	559	508	491	502
21	432	417	423	488	461	476	568	556	562	507	498	503
22	425	405	417	487	465	472	581	567	574	506	446	478
23	412	404	408	491	441	473	595	574	580	485	458	472
24	442	411	424	494	435	461	595	521	564	516	462	488
25	446	436	440	523	448	468	556	525	542	518	462	504
26	457	432	446	487	469	479	552	534	544	517	494	504
27	432	414	424	500	476	488	540	526	534	521	506	515
28	425	401	407	510	489	498	537	526	532	524	512	518
29	420	407	416	507	465	501	530	512	520	533	511	524
30	420	405	410	466	452	459	534	514	525	538	523	529
31	---	---	---	478	452	469	541	532	538	---	---	---
MONTH	457	302	389	523	383	448	595	402	521	601	446	526

08067118 LAKE CHARLOTTE NEAR ANAHUAC, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	19.4	21.9	20.0	17.7	18.8	16.4	12.0	14.0	17.8	10.8	15.3
2	25.1	20.5	22.6	18.2	15.1	17.0	18.3	14.5	16.6	18.8	17.8	18.5
3	27.8	23.1	25.3	16.8	12.3	14.8	20.8	17.9	19.2	18.3	15.7	18.1
4	29.2	25.5	27.1	19.5	13.9	16.8	21.0	19.5	20.1	15.7	10.2	12.0
5	27.4	23.0	25.1	21.7	16.8	19.3	19.9	14.9	16.9	13.2	9.1	10.0
6	25.6	19.6	22.8	22.7	18.6	20.6	15.6	12.1	13.9	13.8	10.7	12.1
7	27.7	20.2	23.2	21.3	18.0	19.7	14.4	11.0	12.8	17.1	11.2	13.5
8	25.3	23.6	24.3	22.4	17.4	19.8	16.1	12.5	14.2	16.5	13.0	14.6
9	26.4	24.7	25.4	21.6	18.0	19.8	17.5	14.9	16.4	16.7	14.6	15.6
10	28.0	24.2	25.9	23.7	18.8	21.0	17.0	12.3	14.6	17.9	14.3	16.0
11	28.9	24.2	26.2	25.0	20.4	22.6	16.2	12.6	14.6	19.3	15.0	16.9
12	28.1	23.7	25.9	23.1	20.8	21.8	17.7	16.0	17.0	21.4	18.3	19.6
13	28.2	24.7	26.5	22.5	18.6	20.5	16.2	13.2	14.7	23.8	18.1	20.9
14	28.6	25.2	26.8	22.8	18.4	20.5	13.2	10.9	11.3	18.1	13.0	15.4
15	29.0	24.4	26.5	23.9	19.6	21.6	---	---	---	17.5	11.4	14.3
16	28.7	24.0	26.4	22.1	18.4	20.3	---	---	---	19.8	15.1	17.4
17	27.8	25.0	26.5	21.0	17.5	19.2	16.3	14.4	15.3	22.5	16.1	18.9
18	25.0	20.8	22.5	21.3	17.1	19.3	15.3	12.9	14.3	22.4	16.7	19.4
19	20.8	16.8	18.6	22.6	18.9	20.8	16.6	11.0	13.6	22.2	17.9	19.9
20	19.6	14.9	17.3	23.3	19.8	21.3	13.9	11.8	13.0	19.8	14.7	17.8
21	21.2	15.3	18.3	23.2	19.7	21.4	12.1	9.3	10.7	14.7	11.2	12.0
22	22.7	17.3	19.9	23.2	21.0	22.0	13.9	8.9	10.6	17.6	11.8	14.9
23	21.8	18.5	20.1	22.4	19.8	21.4	14.6	8.9	11.3	19.4	16.2	17.5
24	21.0	16.3	18.6	19.8	16.4	17.6	16.1	10.0	12.3	16.9	12.8	14.8
25	19.9	15.8	17.9	16.5	13.4	14.8	16.5	10.3	12.2	16.2	9.3	12.3
26	22.4	16.4	19.3	15.9	11.4	13.7	15.5	11.5	14.0	11.1	8.0	9.6
27	23.2	18.4	20.9	16.6	12.9	14.8	15.3	10.9	12.8	9.9	9.0	9.2
28	24.0	19.4	21.8	18.4	14.3	16.4	14.5	10.5	11.2	---	---	---
29	24.3	19.6	22.1	19.6	16.4	17.9	16.4	11.7	14.2	---	---	---
30	24.6	20.9	22.8	17.5	14.0	15.5	15.9	13.9	14.7	8.3	8.0	8.2
31	21.5	18.7	20.1	---	---	---	15.0	11.2	13.6	9.3	8.0	8.5
MONTH	29.2	14.9	22.9	25.0	11.4	19.0	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.0	9.1	9.7	23.5	19.4	21.2	22.9	21.2	21.7	25.2	22.2	23.6
2	10.9	9.5	10.3	24.4	21.9	22.9	22.8	21.3	22.1	24.8	21.4	22.6
3	13.6	10.0	11.7	23.5	19.9	21.8	21.3	17.9	19.8	24.2	21.3	22.2
4	14.1	11.6	12.7	20.4	17.1	18.8	21.7	14.8	18.1	25.4	22.5	23.8
5	12.6	9.6	11.2	19.8	15.5	17.7	22.7	15.1	18.9	26.0	22.0	23.8
6	12.8	10.3	11.4	20.6	16.5	18.5	24.0	18.4	20.9	27.0	24.1	25.4
7	12.8	12.0	12.4	23.8	19.4	21.4	25.4	20.7	22.8	27.6	24.8	25.9
8	15.5	12.5	13.9	25.3	21.0	23.0	23.2	17.9	20.5	28.0	24.8	26.4
9	16.7	14.1	15.2	28.1	22.6	25.0	22.4	15.0	18.4	28.4	25.8	26.8
10	19.0	14.9	16.8	26.9	23.2	24.6	22.1	18.4	20.2	28.6	26.1	27.3
11	20.4	17.5	18.7	23.8	15.7	19.8	22.4	19.7	20.8	29.0	26.9	27.9
12	22.2	18.4	20.2	24.4	11.8	17.3	24.0	19.0	21.4	28.3	26.8	27.5
13	21.2	19.9	20.5	23.2	13.2	17.9	22.2	18.8	20.3	27.8	26.4	27.1
14	23.4	18.7	20.8	18.5	16.2	17.3	27.9	15.9	21.5	26.5	24.9	25.7
15	22.9	20.6	21.8	22.0	16.8	19.0	26.6	18.4	22.5	26.6	23.2	24.9
16	21.9	20.8	21.4	24.9	19.3	21.9	26.5	22.4	24.5	28.7	25.4	26.8
17	23.4	21.1	22.1	24.1	20.5	22.0	30.8	22.9	26.4	28.9	25.4	27.0
18	23.8	20.9	22.3	22.7	18.8	21.0	30.7	24.5	27.3	28.9	25.5	27.2
19	22.3	17.4	19.4	21.3	17.3	19.0	29.8	24.6	26.9	30.5	26.6	28.2
20	17.4	14.4	15.8	22.8	14.3	18.4	28.0	24.6	26.1	28.3	26.8	27.1
21	19.6	15.0	17.2	19.4	17.8	18.6	27.7	21.8	24.6	27.5	26.8	27.2
22	22.0	16.8	19.0	22.4	19.1	20.6	28.0	19.2	23.7	29.7	26.7	27.7
23	21.3	18.3	19.8	24.9	20.7	22.7	25.3	22.8	24.0	30.6	28.1	29.1
24	23.0	19.0	20.8	25.8	22.0	23.7	26.9	22.7	24.5	31.4	28.0	29.4
25	22.2	19.9	21.2	26.6	22.8	24.5	29.5	20.6	24.9	31.8	28.8	30.0
26	21.1	18.5	20.1	27.2	23.7	25.1	31.6	22.9	27.0	31.8	29.3	30.4
27	20.3	16.2	18.1	26.3	23.5	24.7	30.6	24.6	27.3	31.6	28.9	30.2
28	20.1	15.8	17.8	25.9	21.5	23.7	31.5	24.0	27.2	32.9	29.3	30.8
29	20.8	17.6	19.3	27.1	23.1	24.9	31.6	23.8	27.6	34.2	30.6	32.4
30	---	---	---	27.5	23.0	25.3	26.9	24.2	25.3	34.5	31.4	32.7
31	---	---	---	25.7	19.7	22.7	---	---	---	32.8	30.4	31.8
MONTH	23.8	9.1	17.3	28.1	11.8	21.5	31.6	14.8	23.2	34.5	21.3	27.4

08067118 LAKE CHARLOTTE NEAR ANAHUAC, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	34.5	28.4	31.5	31.7	30.2	31.0	33.8	25.3	29.0	34.4	30.4	32.2
2	34.2	29.4	31.8	31.6	30.0	30.7	35.1	28.4	31.5	34.8	29.4	31.9
3	34.8	29.7	31.9	31.7	30.0	30.8	34.6	30.0	32.2	34.6	29.0	31.7
4	31.4	28.3	29.8	31.1	29.9	30.5	33.9	30.0	31.8	34.7	29.3	32.1
5	28.8	26.6	28.0	31.8	28.5	30.3	34.3	29.6	31.6	34.4	29.7	32.1
6	33.3	24.8	28.6	33.4	30.1	31.6	34.1	29.0	31.3	31.8	27.0	29.5
7	30.5	22.7	26.9	35.2	30.1	32.3	34.8	28.9	31.6	30.6	27.0	28.8
8	29.1	26.4	27.8	35.5	30.4	32.6	34.0	29.7	31.8	27.2	24.9	26.2
9	29.0	26.7	27.9	35.0	30.3	32.4	34.1	29.1	31.5	29.5	25.5	27.2
10	30.1	27.0	28.3	33.4	29.6	31.2	35.5	29.4	32.1	32.5	26.5	29.1
11	30.9	28.2	29.4	33.7	28.2	30.6	35.0	29.7	32.0	30.9	28.9	29.9
12	31.4	28.4	29.8	34.5	27.6	30.8	34.8	28.9	31.7	31.1	28.4	29.6
13	31.9	29.2	30.5	36.2	28.0	31.6	34.3	29.7	32.1	29.2	27.1	27.8
14	30.3	28.2	29.4	36.7	28.3	31.9	33.1	28.8	30.9	29.7	26.2	27.6
15	30.4	28.1	29.2	37.8	28.5	32.6	33.9	29.4	31.5	30.9	26.5	28.5
16	30.7	27.9	29.2	37.8	28.3	32.7	35.5	29.2	31.9	28.7	24.8	26.7
17	29.9	28.6	29.2	36.8	29.2	32.6	35.1	29.1	31.7	26.7	22.2	24.5
18	29.1	28.3	28.5	37.1	29.8	33.0	34.6	29.1	31.8	29.8	21.9	25.8
19	30.8	28.0	29.2	37.4	29.3	32.6	35.0	28.9	31.7	30.3	24.9	27.6
20	31.1	28.9	29.9	37.2	28.8	32.2	36.6	28.9	32.0	31.1	27.3	29.1
21	30.8	28.5	29.6	36.0	28.8	31.8	35.1	30.1	32.5	29.5	27.8	28.4
22	31.6	29.0	30.1	37.3	28.4	31.9	32.3	29.7	30.7	30.0	26.8	28.3
23	32.1	29.5	30.7	35.7	28.2	30.7	31.0	28.1	29.4	31.3	27.9	29.4
24	31.5	29.3	30.4	37.1	25.7	30.6	32.1	27.7	29.5	31.7	28.6	30.0
25	31.5	29.5	30.4	36.8	28.0	31.9	35.2	27.7	30.7	29.8	22.4	25.6
26	32.2	29.5	30.8	34.6	28.4	31.5	35.3	29.6	32.3	23.0	19.1	21.0
27	32.5	30.9	31.6	35.6	27.7	31.4	34.5	29.9	32.2	22.8	18.8	20.7
28	32.4	30.9	31.6	33.9	28.0	31.0	34.2	29.7	31.8	24.0	19.4	21.5
29	31.6	30.0	30.8	34.1	27.8	30.7	36.0	29.6	32.3	22.7	19.4	21.3
30	32.4	30.6	31.4	31.9	28.0	29.9	36.3	29.8	32.6	23.4	20.5	22.0
31	---	---	---	29.7	26.1	27.7	35.9	29.8	32.6	---	---	---
MONTH	34.8	22.7	29.8	37.8	25.7	31.4	36.6	25.3	31.6	34.8	18.8	27.5

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08067252 TRINITY RIVER AT WALLISVILLE, TX

LOCATION.--Lat 29°48′44", long 94°43′52", Chambers County, Hydrologic Unit 12030203, in the center of the Trinity River Dam at the U.S. Army Corps of Engineers river lock which is located 3.0 miles west along Interstate Highway 10 from the Interstate overpass over Farm Road 563, 2.0 miles below Wallisville and 3.9 river miles from mouth.

DRAINAGE AREA.--17,796 mi^2.

WATER-STAGE RECORDS

PERIOD OF RECORD.--Oct 1994 to current year.

GAGE.--Water-stage recorders. Datum of gage is sea level. Satellite telemeter at station.

REMARKS.--Records good. Gage was relocated to permanent location after dam and lock were completed on Mar 18, 1999 from temporary location 2.3 miles upstream. 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, 7.7 ft, Oct 22, 1994 at 0300 hours; minimum elevation, -1.6 ft, Nov 2 and 3, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (upstream), 3.4 ft, Feb 7; minimum elevation, -1.2 ft, Jan 4. Maximum elevation (downstream), 2.9 ft, Apr 23; minimum elevation, -1.6 ft, Nov 2 and 3.

ELEVATION UPSTREAM (FEET NGVD), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.86	1.01	1.65	1.58	1.38	1.28	.94	-.54	2.70	2.15	2.73	2.33
2	1.96	1.13	1.67	1.55	1.88	1.29	1.30	.19	2.22	1.87	2.91	2.53
3	1.97	1.02	1.58	1.27	2.23	1.88	1.53	.35	2.37	2.22	2.89	.40
4	1.75	.81	1.57	1.48	2.50	2.23	.83	-1.15	2.51	2.36	.76	-.37
5	1.46	.73	1.61	1.51	2.65	2.49	.08	-.76	2.90	2.50	1.18	.21
6	1.85	.69	1.62	1.44	2.64	2.16	.54	.08	3.33	2.90	1.33	.68
7	2.02	1.29	1.62	1.32	2.16	1.42	.76	.54	3.44	2.31	1.63	1.02
8	2.14	1.62	1.57	1.47	2.04	1.65	1.12	.76	2.83	1.94	1.62	1.00
9	2.01	1.52	1.54	1.51	1.97	.57	1.25	.98	2.49	1.56	1.43	.77
10	1.86	.98	1.60	1.54	1.05	-.14	1.39	1.00	1.94	1.82	1.95	.73
11	1.54	.68	1.64	1.56	1.26	.72	1.47	1.34	1.94	1.74	1.41	-.68
12	1.53	.90	1.66	1.55	1.73	1.26	1.54	1.42	1.76	1.50	1.39	-.94
13	1.84	.91	1.59	1.48	1.74	-.67	1.48	-.18	1.86	1.62	1.43	.05
14	1.66	.72	1.55	1.42	.93	-.48	1.23	-.74	1.88	1.76	1.78	.22
15	1.78	---	1.42	1.37	.95	-1.13	1.48	.82	1.86	1.73	2.30	1.16
16	---	---	1.53	1.38	.39	-.95	1.20	.27	1.91	1.79	2.09	.63
17	---	---	1.60	1.13	.80	.39	1.04	-.13	2.03	1.80	1.64	1.24
18	2.35	1.85	1.59	1.50	1.03	.80	.99	-.11	2.10	1.77	1.70	1.20
19	1.85	1.19	1.63	1.57	1.15	.98	1.41	.95	2.02	1.73	1.73	1.02
20	1.53	1.20	1.63	1.57	1.33	.38	1.30	.87	1.82	1.71	1.43	.93
21	1.72	1.53	1.63	1.49	1.04	-.40	1.25	.91	1.79	1.52	2.00	1.42
22	1.70	1.61	1.82	1.63	.63	-.65	1.74	1.25	1.57	1.44	1.83	1.68
23	1.75	1.23	2.03	1.82	.84	-.35	1.63	.94	1.62	1.50	1.78	1.51
24	1.60	1.05	1.98	1.79	.81	-.71	.96	.21	1.57	1.37	1.94	1.62
25	1.50	1.32	1.94	1.86	.19	-.69	.49	.26	1.85	1.54	1.96	1.69
26	1.49	1.38	1.91	1.82	.58	-.71	.38	.04	2.10	1.85	2.13	1.69
27	1.48	.91	1.91	1.76	.12	-.95	.98	.38	2.01	1.87	2.13	1.31
28	1.48	1.32	1.91	1.68	-.24	-1.14	1.25	.95	2.27	1.83	1.95	.57
29	1.52	1.39	1.91	1.87	.20	-.40	1.58	1.25	2.55	2.07	1.94	.81
30	1.83	1.51	1.90	1.34	.48	-.19	2.29	1.58	---	---	1.60	.14
31	1.71	1.57	---	---	.48	-.41	2.63	2.29	---	---	1.81	.04
MONTH	---	---	2.03	1.13	2.65	-1.14	2.63	-1.15	3.44	1.37	2.91	-.94

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

ELEVATION UPSTREAM (FEET NGVD), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.00	1.14	1.95	1.63	1.80	.55	2.36	1.66	1.32	1.12	1.47	1.39
2	1.82	.73	2.57	1.79	1.75	.44	2.41	1.63	1.40	1.32	1.42	1.24
3	1.06	.25	2.73	2.32	1.70	.26	2.37	1.58	1.49	1.40	1.36	1.21
4	.25	-.32	2.87	1.46	1.80	.37	2.27	1.36	1.54	1.48	1.29	1.20
5	1.67	.04	2.58	1.15	1.30	.20	2.00	1.17	1.57	1.36	1.26	1.21
6	1.73	1.08	2.55	1.25	1.02	-.67	1.62	.83	1.40	1.22	1.23	1.16
7	1.72	.70	2.43	1.47	1.62	-.05	---	---	1.25	1.18	1.32	1.20
8	1.34	-.09	2.45	1.50	2.04	.80	1.14	.58	1.48	1.24	1.30	1.22
9	1.90	-.10	2.56	1.65	2.28	1.06	1.14	.60	1.49	1.42	1.52	1.27
10	2.27	1.04	2.25	1.38	2.29	1.62	1.55	.59	1.48	1.32	1.66	1.47
11	2.09	.68	2.58	1.76	2.27	1.50	1.32	.50	1.33	1.25	1.65	1.58
12	1.08	.02	2.66	2.06	1.84	1.23	1.30	.37	1.31	1.25	1.74	1.59
13	.74	-.34	2.17	1.30	2.07	1.18	.98	.21	1.28	1.19	1.72	1.67
14	1.10	-.15	1.77	1.17	2.51	1.51	.81	-.10	1.46	1.26	1.82	1.69
15	1.49	.54	1.80	1.08	2.29	1.54	.78	-.33	1.46	1.38	1.78	1.72
16	1.56	.92	2.12	1.14	2.57	1.65	1.08	-.27	1.45	1.29	1.74	1.56
17	1.16	.58	2.68	1.23	2.89	1.77	1.15	-.08	1.32	1.24	1.68	1.59
18	1.12	.51	2.65	1.51	2.47	1.60	1.24	-.06	1.28	1.24	1.73	1.63
19	1.71	.69	2.03	1.15	2.52	1.43	1.08	.10	1.27	1.18	1.78	1.65
20	1.63	.49	2.39	1.59	2.57	1.57	1.08	-.08	1.26	1.19	1.84	1.72
21	.61	-.08	2.27	1.53	2.37	1.80	1.07	-.02	1.25	1.18	1.88	1.79
22	2.08	-.10	2.08	1.47	1.97	1.37	1.04	.14	1.25	1.19	2.09	1.86
23	2.95	1.14	2.35	1.43	1.88	1.32	1.01	.23	1.32	1.20	2.12	2.03
24	2.67	.52	2.16	1.55	2.04	1.60	.81	.11	1.54	1.27	2.13	2.07
25	1.42	-.32	2.22	1.32	2.12	1.64	1.07	.20	1.57	1.49	2.14	---
26	1.65	.14	2.55	1.74	2.05	1.59	1.21	.03	1.53	1.44	---	1.95
27	1.51	.24	2.47	1.90	2.01	1.56	1.11	-.03	1.60	1.49	2.00	1.93
28	1.24	.01	1.91	1.09	2.18	1.57	1.54	.16	1.61	1.55	1.95	1.91
29	1.03	-.12	1.44	.95	2.17	1.63	1.42	.18	1.61	1.53	1.92	1.87
30	1.63	.98	1.30	.77	2.39	1.50	1.30	1.05	1.56	1.48	1.92	1.79
31	---	---	1.38	.56	---	---	1.21	.88	1.49	1.43	---	---
MONTH	2.95	-.34	2.87	.56	2.89	-.67	---	---	1.61	1.12	---	---

ELEVATION DOWNSTREAM (FEET NGVD), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.74	.57	.92	-.66	1.07	.38	.93	-.66	1.37	-.22	1.41	-.38
2	1.94	.67	.01	-1.64	2.43	.88	1.31	.06	1.09	-.67	1.43	-.32
3	1.96	.55	1.08	-1.64	2.54	1.59	1.49	.20	.94	-.59	1.44	.12
4	1.70	.24	1.20	.40	2.30	1.32	.74	-1.51	.66	-1.16	.52	-.64
5	1.31	.21	1.00	.16	1.57	-.77	.75	-1.46	.41	-1.15	.94	-.05
6	1.88	.29	1.08	-.05	.66	-1.30	1.17	-.10	.69	-.59	1.08	.42
7	2.09	.91	.92	-.72	1.51	-.21	1.36	-.06	.59	-.94	1.39	.75
8	2.17	1.26	1.10	-.26	1.67	.31	1.53	.07	.22	-1.14	1.36	.72
9	1.85	1.12	1.23	-.11	1.77	.14	1.22	-.41	.32	-.72	1.16	.49
10	1.65	.48	1.35	.05	.84	-1.04	1.24	-.30	.84	-.09	1.68	.46
11	1.38	.15	1.38	-.12	1.64	.24	.67	-.27	.80	-.14	1.13	-.97
12	1.57	.43	1.34	-.31	2.07	.15	.78	-.05	.85	-.66	1.10	-1.23
13	1.74	.42	1.27	-.17	.38	-1.02	.88	-.43	1.46	-.22	1.15	-.24
14	1.54	.24	1.39	-.15	.48	-.69	1.19	-.90	1.20	-.28	1.47	-.10
15	1.64	---	1.04	-.54	.18	-1.29	1.46	.65	1.21	-.48	2.01	.84
16	---	---	.90	.06	.87	-1.03	1.13	.05	1.41	-.31	1.72	-.16
17	---	---	1.33	.39	1.17	.18	.98	-.37	1.77	-.01	.93	-.84
18	.73	-.33	1.40	.69	1.58	.00	1.05	-.37	1.75	-.15	1.40	-.16
19	.07	-1.13	1.50	.60	1.07	-.25	1.25	-.49	.81	-1.08	1.40	-1.00
20	.06	-1.16	1.05	.02	1.10	-.26	1.00	-1.00	.68	-.55	1.25	-.70
21	.99	-.03	1.60	.26	1.00	-.61	1.23	-.41	.89	-.05	1.97	1.10
22	1.14	-.06	2.03	.88	.51	-.83	1.75	.53	1.38	.61	1.51	.71
23	.89	-.87	1.81	.18	.79	-.52	1.51	-.55	1.49	.62	1.54	.50
24	1.20	-.30	.78	-1.44	.75	-.86	-.15	-1.19	1.43	-.03	1.36	.01
25	.99	-.29	.61	-1.28	.23	-.83	.34	-.53	1.83	.83	1.16	-.20
26	1.00	-.39	.89	-.44	.53	-.84	.43	-.85	1.99	.36	1.51	-.48
27	1.00	-.81	1.14	-.42	.07	-1.06	1.58	-.02	.57	-.89	1.33	-.24
28	1.06	-.38	1.19	-.30	-.23	-1.23	.35	-1.08	1.42	-.76	1.80	.24
29	1.59	.21	.94	-.77	.16	-.50	-.20	-1.58	1.52	.15	1.85	.68
30	1.81	.09	.69	-.75	.45	-.29	.29	-1.18	---	---	1.52	.04
31	1.06	-.42	---	---	.45	-.52	1.37	-.44	---	---	1.73	-.07
MONTH	---	---	2.03	-1.64	2.54	-1.30	1.75	-1.58	1.99	-1.16	2.01	-1.23

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

ELEVATION DOWNSTREAM (FEET NGVD), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.91	1.03	2.54	1.03	1.76	.50	2.25	1.51	1.52	-.33	.95	.04
2	1.73	.61	2.26	.72	1.70	.38	2.32	1.41	1.50	.09	.75	-.03
3	.96	.11	1.77	.24	1.66	.20	2.25	1.44	1.37	.39	.89	-.72
4	.11	-.46	2.22	.22	1.76	.31	2.20	1.25	1.29	.29	.62	-.52
5	1.55	-.10	2.52	1.05	1.25	.13	1.93	1.09	1.07	.06	.87	-.31
6	1.62	.95	2.49	1.10	.97	-.74	---	.78	1.23	.38	1.22	-.17
7	1.61	.56	2.35	1.32	1.56	-.12	1.24	---	1.21	.28	1.62	.33
8	1.21	-.23	2.36	1.37	1.98	.72	1.11	.54	1.72	.34	1.35	.22
9	1.80	-.25	2.50	1.41	2.23	1.00	1.12	.56	1.56	.31	1.89	.31
10	2.18	.89	2.14	1.24	2.23	1.55	1.54	.57	1.32	.11	1.99	.62
11	2.00	.58	2.53	1.66	2.21	1.42	1.36	.48	1.15	.05	1.54	.38
12	.99	-.10	2.58	2.01	1.76	1.10	1.30	.37	.96	-.29	1.72	.38
13	.66	-.44	2.06	1.20	1.96	1.01	.99	.21	1.29	-.20	1.54	.59
14	1.01	-.27	1.74	1.08	2.42	1.41	.81	-.10	1.85	.15	1.48	.45
15	1.40	.43	1.81	1.01	2.18	1.38	.79	-.32	1.56	.62	.90	.15
16	1.47	.82	2.15	1.15	2.46	1.54	1.10	-.26	1.28	.02	1.37	.31
17	1.07	.48	2.72	1.27	2.82	1.67	1.18	-.07	1.17	.02	1.59	.48
18	1.03	.42	2.70	1.55	2.38	1.45	1.27	-.05	1.01	.20	1.66	.67
19	1.62	.59	2.08	1.19	2.42	1.28	1.11	.11	.99	.06	1.88	.68
20	1.54	.36	2.44	1.59	2.49	1.46	1.11	-.06	1.07	.26	2.01	.32
21	.53	-.21	2.26	1.52	2.27	1.67	1.09	-.01	.94	.04	1.70	.29
22	1.99	-.23	2.10	1.47	1.85	1.24	1.07	.16	1.00	-.21	2.28	.52
23	2.88	1.03	2.37	1.40	1.78	1.17	1.04	.24	1.51	.01	2.02	.65
24	2.57	.42	2.17	1.52	1.92	1.47	.84	.13	1.43	-.14	2.10	.46
25	1.35	-.41	2.22	1.28	2.03	1.49	1.12	.23	1.31	-.14	.46	---
26	1.59	.05	2.52	1.72	1.92	1.45	1.25	.07	1.34	-.13	.86	---
27	1.45	.18	2.44	1.87	1.89	1.40	1.16	.00	1.51	.05	.95	-.18
28	1.18	-.05	1.87	.99	2.02	1.33	1.59	.20	1.37	.25	.99	.02
29	1.21	-.18	1.38	.85	2.01	1.36	1.68	.23	1.32	.21	1.56	.15
30	2.13	1.02	1.24	.71	2.25	1.27	1.40	.19	.96	.06	1.56	.20
31	---	---	1.35	.50	---	---	1.62	-.13	1.03	-.21	---	---
MONTH	2.88	-.46	2.72	.22	2.82	-.74	---	---	1.85	-.33	2.28	---

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 Jul 1995. A second water-quality monitor was installed on downstream side of dam Mar 19, 1999.

REMARKS.--Interruption in the record was caused by malfunctions of the instrumentation. Gage was relocated to permanent location after dam and lock were completed on March 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, Oct 9, 1999; minimum, 109 microsiemens, Apr 5-6, 1999.
WATER TEMPERATURE (UPSTREAM): Maximum, 34.0°C, Jul 28, 1997; minimum, 7.0°C, Feb 4-7, 1996, Jan 15, 1997.
SPECIFIC CONDUCTANCE (DOWNSTREAM): Maximum, 34,500 microsiemens, Dec 3, 1999; minimum, 125 microsiemens, Apr 6, 1999.
WATER TEMPERATURE (DOWNSTREAM): Maximum, 34.4°C, Aug 10, 1999; minimum, 9.3°C, Jan 31, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE (UPSTREAM): Maximum, 21,300 microsiemens, Oct 9; minimum, 153 microsiemens, May 22.
WATER TEMPERATURE (UPSTREAM): Maximum, 32.9°C, Jul 23; minimum, 10.3°C, Jan 30.
SPECIFIC CONDUCTANCE (DOWNSTREAM): Maximum, 34,500 microsiemens, Dec 3; minimum, 164 microsiemens, May 22.
WATER TEMPERATURE (DOWNSTREAM): Maximum, 34.0°C, Sep 2; minimum, 9.3°C, Jan 31.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14700	9910	13400	3410	3170	3310	2130	1820	2010	11500	3020	6320
2	16000	9600	14500	3260	3060	3200	7050	1780	3830	15300	9780	11500
3	16900	11800	15500	3280	3060	3230	4710	3370	3860	18000	6140	12300
4	15800	12400	14600	3520	3190	3330	4240	2560	3640	8180	2540	5070
5	15600	9380	12900	3780	3460	3620	2650	2430	2530	2540	2440	2470
6	18100	9950	14600	3820	3520	3710	2520	1910	2270	2570	2460	2520
7	20500	12200	17700	3680	3240	3530	1910	1280	1600	2600	2190	2390
8	21200	16500	20200	3460	3280	3370	1670	1220	1400	2800	2240	2520
9	21300	17100	19400	3400	3180	3330	3570	1290	1740	2240	1650	1920
10	18800	9390	16700	3390	3230	3320	2200	1060	1410	1950	1660	1800
11	16100	7300	12800	3350	3100	3230	1180	1060	1100	1820	1400	1630
12	12000	7290	10200	3240	2650	2960	1170	1010	1070	1420	840	1160
13	13400	7840	11700	2800	2620	2720	1140	860	1070	1970	603	956
14	13300	6190	10700	2750	2480	2650	1540	788	1210	1960	510	870
15	---	---	---	2480	2180	2310	1250	786	991	1530	672	1050
16	---	---	---	2620	2190	2380	1490	794	1250	805	510	657
17	---	---	---	2690	2410	2550	1440	1230	1370	613	426	463
18	---	---	---	2940	2540	2730	1230	1080	1140	650	468	506
19	4420	3540	3970	3090	2770	2910	1200	1130	1160	557	423	475
20	4190	3600	3920	3010	2800	2940	1200	908	1150	446	410	424
21	4080	3270	3750	2920	2680	2820	3600	754	1320	600	402	409
22	3810	3280	3540	3210	2800	3000	4020	940	1580	2070	452	803
23	3680	3000	---	3100	2750	2950	4330	1140	2460	454	403	422
24	3350	2990	---	2940	2780	2890	7290	1020	3010	445	402	414
25	3330	3030	---	2920	2670	2770	4180	945	1880	482	440	452
26	3340	2940	---	2740	2580	2700	7280	1350	3830	1230	482	511
27	3210	2980	---	2720	2610	2690	6280	1270	2770	8970	654	3150
28	3940	2990	3310	2690	2580	2650	3390	1270	1660	1910	1600	1770
29	4650	3190	3680	2640	2510	2600	6120	1840	3470	1600	1380	1480
30	5610	3610	4170	2680	2050	2520	12400	2810	8380	1390	1220	1300
31	4140	3240	3650	---	---	---	9230	2580	4560	1250	1100	1180
MONTH	---	---	---	3820	2050	2960	12400	754	2280	18000	402	2220

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1100	846	1020	867	603	724	480	459	468	11800	2550	6030
2	964	844	935	1230	513	822	462	454	459	3280	1320	2340
3	940	855	877	513	411	427	466	458	461	1670	1010	1260
4	878	798	849	448	434	443	460	415	441	1800	371	1010
5	802	768	793	451	439	441	424	374	397	413	299	365
6	895	767	821	440	419	428	405	374	395	358	300	336
7	853	405	610	437	416	425	422	405	417	358	302	328
8	443	404	417	430	411	419	446	422	435	400	339	378
9	474	425	438	435	415	427	450	444	448	428	400	417
10	454	430	441	476	431	443	451	444	448	435	428	433
11	463	450	455	446	417	431	456	445	449	450	433	440
12	458	443	451	602	446	489	456	449	453	459	449	454
13	457	442	448	1920	469	663	460	449	453	472	442	452
14	447	413	431	3420	430	909	459	447	452	502	472	490
15	422	413	417	9640	469	2470	451	437	445	506	497	502
16	419	414	416	3200	415	706	449	439	444	507	503	505
17	418	411	415	424	419	421	445	438	441	509	501	506
18	418	409	414	420	407	411	448	440	443	1030	500	674
19	420	410	414	407	398	403	446	438	441	566	487	507
20	437	412	418	408	396	401	444	439	441	487	335	458
21	445	421	434	8810	406	2060	456	442	448	335	---	---
22	438	424	433	513	433	466	456	449	451	184	---	---
23	561	434	486	1130	402	564	498	443	447	244	184	218
24	463	449	456	586	483	528	446	442	445	246	223	232
25	15900	463	5480	500	455	471	449	445	447	344	239	293
26	18800	649	3490	459	454	457	452	445	448	392	344	373
27	808	636	695	457	451	454	455	447	452	412	391	402
28	1130	808	963	476	454	468	460	451	455	413	405	409
29	950	694	826	479	449	460	1050	455	597	411	402	405
30	---	---	---	469	450	458	9740	901	6150	436	409	425
31	---	---	---	480	468	473	---	---	---	434	424	430
MONTH	18800	404	853	9640	396	618	9740	374	639	11800	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	426	415	422	417	412	414	731	526	564	578	560	569
2	423	345	383	416	412	414	580	536	558	570	562	566
3	355	344	350	418	405	414	561	522	541	570	557	564
4	378	344	353	420	405	414	524	484	504	562	547	555
5	365	348	357	417	409	413	484	457	471	554	533	548
6	363	348	357	---	---	---	457	419	441	587	532	550
7	411	337	362	---	---	---	424	417	420	856	579	658
8	419	326	383	---	---	---	2850	417	1160	768	658	713
9	399	347	383	---	---	---	1540	754	968	2450	730	1090
10	413	399	407	---	---	---	754	657	710	1080	781	907
11	413	408	410	411	402	407	657	610	634	930	739	807
12	420	413	416	410	402	406	611	587	599	992	738	809
13	421	409	415	411	404	408	594	562	582	840	754	806
14	424	420	422	412	405	408	1330	562	705	898	754	817
15	432	422	425	413	406	409	873	748	794	862	712	779
16	423	419	422	433	406	412	768	673	716	743	692	709
17	427	420	423	438	405	412	715	679	694	698	668	684
18	427	424	425	448	404	413	688	680	685	835	672	765
19	427	423	425	424	402	409	683	675	679	1130	717	857
20	425	414	421	464	402	416	683	671	679	1390	717	965
21	435	413	421	454	404	415	681	662	673	1090	799	912
22	456	435	443	509	406	437	669	655	662	2790	805	1280
23	464	443	451	521	405	446	694	654	667	1560	1100	1280
24	476	432	459	410	401	406	720	666	686	1460	1060	1230
25	432	412	420	414	404	408	694	639	673	---	---	---
26	419	413	416	641	404	450	639	626	631	---	839	---
27	419	414	417	1020	405	664	669	629	641	859	820	838
28	421	414	417	1780	412	1060	669	618	646	820	751	791
29	417	412	415	1780	424	1110	623	588	605	755	708	737
30	420	412	416	1600	622	938	595	548	578	708	687	703
31	---	---	---	674	454	520	600	556	571	---	---	---
MONTH	476	326	408	---	---	---	2850	417	650	---	---	---

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.4	24.2	24.8	21.8	21.2	21.5	18.5	18.0	18.2	14.9	13.0	14.1
2	26.4	23.7	24.4	21.2	20.0	20.6	18.2	17.3	17.8	16.8	14.8	15.6
3	25.9	24.2	24.8	20.0	19.3	19.6	18.5	18.1	18.3	17.8	15.9	17.1
4	26.7	24.8	25.4	19.7	19.0	19.3	19.3	18.5	18.9	16.1	14.2	14.8
5	26.5	25.3	25.7	20.2	19.5	19.8	19.0	17.6	18.2	14.2	13.4	13.7
6	26.0	23.7	25.1	20.7	20.0	20.4	17.8	16.9	17.3	13.7	13.4	13.5
7	24.5	23.1	23.6	20.7	20.2	20.5	17.3	16.7	17.0	13.7	13.4	13.5
8	24.6	23.1	23.5	20.8	20.1	20.5	17.0	16.1	16.4	14.5	13.6	13.9
9	25.4	23.5	24.3	20.5	20.0	20.3	16.4	15.9	16.2	14.5	14.2	14.4
10	27.2	24.6	25.2	21.1	20.2	20.6	17.3	15.7	16.4	14.7	14.1	14.4
11	27.9	25.1	26.1	22.3	20.7	21.3	16.7	16.3	16.4	15.6	14.4	14.9
12	27.5	25.8	26.5	22.6	21.3	21.9	17.6	16.6	16.9	16.2	15.2	15.7
13	28.0	26.3	26.7	21.8	20.9	21.3	16.7	15.9	16.3	17.6	16.0	16.6
14	28.0	26.3	27.0	21.4	20.5	20.9	16.3	15.6	15.9	16.6	15.9	16.2
15	---	---	---	22.1	20.5	21.2	16.0	15.2	15.5	16.3	15.6	16.0
16	---	---	---	21.4	20.8	21.0	15.4	14.6	14.8	16.6	16.0	16.3
17	---	---	---	20.9	20.3	20.5	14.6	14.0	14.3	17.4	16.4	16.8
18	---	---	---	20.6	20.0	20.3	14.7	14.4	14.5	17.8	17.0	17.5
19	25.1	23.2	24.2	21.0	20.3	20.6	14.5	14.1	14.3	18.0	17.4	17.6
20	23.2	22.1	22.6	22.1	20.7	21.3	14.4	14.2	14.3	17.6	16.6	17.2
21	23.1	21.7	22.4	21.6	21.3	21.5	14.4	13.4	13.8	16.6	15.8	16.1
22	22.7	21.9	22.3	21.6	21.2	21.4	13.8	12.7	13.4	16.5	15.7	16.1
23	23.0	21.2	---	22.2	21.2	21.5	13.3	11.8	12.9	17.2	16.2	16.6
24	22.2	21.2	---	21.5	20.5	20.9	13.2	11.4	12.6	16.8	16.2	16.5
25	21.3	20.7	---	20.6	19.0	19.6	13.4	11.6	12.6	16.5	15.4	16.1
26	20.9	20.3	---	19.0	18.5	18.7	13.1	10.8	12.5	15.4	14.3	14.8
27	20.7	20.4	---	18.5	18.1	18.3	13.7	12.4	13.0	14.3	12.5	13.4
28	21.5	20.5	21.0	18.8	18.2	18.4	13.0	11.9	12.6	12.5	11.3	11.8
29	21.5	21.0	21.2	20.3	18.5	19.1	13.8	11.3	12.9	11.3	10.7	11.0
30	22.2	21.5	21.7	19.9	18.4	19.1	13.9	12.4	13.0	11.8	10.3	11.0
31	22.3	21.2	21.7	---	---	---	14.8	13.7	14.1	11.6	10.9	11.2
MONTH	---	---	---	22.6	18.1	20.4	19.3	10.8	15.2	18.0	10.3	15.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.9	10.8	11.4	20.7	19.8	20.1	22.6	22.1	22.3	25.5	24.2	24.9
2	12.2	11.7	11.9	20.5	19.6	19.9	22.2	21.8	22.0	25.4	24.6	24.8
3	12.7	11.9	12.3	20.7	19.5	20.0	21.9	20.5	21.1	25.8	24.3	24.9
4	13.5	12.0	12.5	20.6	19.4	19.7	20.5	19.4	19.8	25.3	23.3	24.7
5	12.6	12.0	12.2	19.6	18.7	19.0	19.5	18.7	19.2	23.8	22.4	23.4
6	12.1	11.7	11.9	18.7	18.1	18.3	20.3	19.2	19.7	24.1	22.3	23.1
7	12.2	11.2	11.8	18.7	18.1	18.4	21.1	20.2	20.7	24.6	23.5	24.1
8	12.8	11.1	11.9	19.9	18.6	19.2	21.4	20.8	21.2	25.4	24.6	25.0
9	14.4	12.5	13.4	22.0	19.6	20.6	21.2	20.3	20.7	25.6	25.0	25.3
10	15.2	13.7	14.5	22.1	21.1	21.5	20.8	20.2	20.5	25.8	25.0	25.4
11	15.9	14.7	15.3	22.1	21.1	21.6	20.9	20.3	20.5	26.3	25.4	25.9
12	16.8	15.4	16.1	21.4	20.9	21.1	21.7	20.6	20.8	26.4	25.7	26.1
13	17.1	16.5	16.8	20.9	20.3	20.6	21.1	20.5	20.8	26.4	25.8	26.1
14	18.8	16.7	17.2	20.6	19.7	20.3	21.4	20.4	20.8	26.1	25.8	26.0
15	18.5	17.2	17.7	21.0	18.8	20.2	21.4	20.7	20.9	26.0	25.3	25.7
16	19.1	18.4	18.6	22.3	20.3	20.9	21.5	20.7	21.0	26.6	25.8	26.2
17	19.6	19.1	19.3	21.6	20.1	20.6	22.5	21.3	21.9	27.3	26.5	26.8
18	20.3	19.5	19.8	21.1	20.2	20.7	23.8	22.5	23.1	27.8	26.8	27.1
19	20.2	19.4	19.7	20.8	19.8	20.3	24.8	23.4	24.1	28.4	27.2	27.5
20	19.8	18.8	19.2	20.8	19.9	20.3	24.5	24.1	24.3	27.9	23.2	26.9
21	19.6	18.9	19.2	20.3	18.3	19.9	24.2	23.8	24.0	---	23.0	---
22	19.8	19.0	19.4	21.2	20.1	20.6	24.0	23.2	23.5	24.0	---	---
23	20.0	19.3	19.6	21.1	20.3	20.9	23.5	23.0	23.2	25.1	23.9	24.5
24	20.4	19.6	20.0	21.8	20.6	21.1	23.4	22.5	23.0	25.6	24.9	25.2
25	21.1	20.1	20.5	22.0	20.9	21.3	23.9	23.1	23.4	26.6	25.5	26.0
26	21.2	19.9	20.5	22.7	21.4	22.0	24.7	23.2	23.8	26.7	26.1	26.4
27	21.1	19.5	19.9	23.7	22.4	23.0	25.3	23.9	24.7	26.8	25.9	26.4
28	19.7	18.8	19.3	24.0	23.1	23.5	26.3	24.9	25.3	26.7	25.9	26.3
29	19.9	18.9	19.4	23.8	23.2	23.4	26.2	25.1	25.7	27.0	26.1	26.6
30	---	---	---	23.7	22.9	23.3	26.7	25.5	26.0	27.5	26.6	27.1
31	---	---	---	23.3	22.5	22.9	---	---	---	27.9	27.3	27.5
MONTH	21.2	10.8	16.6	24.0	18.1	20.8	26.7	18.7	22.3	---	---	---

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.4	27.8	28.1	30.4	29.6	30.0	30.7	29.7	30.0	32.3	31.5	31.6
2	32.0	27.9	29.6	30.3	29.8	30.1	30.1	29.5	29.8	32.5	31.1	31.5
3	31.1	30.3	30.6	30.6	29.9	30.2	29.9	29.6	29.7	32.6	30.9	31.5
4	31.0	30.0	30.3	30.4	29.9	30.1	30.1	29.5	29.7	32.8	31.1	31.8
5	30.4	29.7	30.1	30.3	29.6	29.9	31.1	29.9	30.4	32.6	31.5	32.0
6	30.6	29.2	29.6	---	29.7	---	31.5	30.6	30.9	32.4	31.3	31.6
7	29.7	28.7	29.3	---	---	---	31.1	30.8	30.9	31.4	30.5	31.0
8	29.4	27.5	28.3	---	---	---	31.3	30.6	30.8	30.7	29.2	29.8
9	28.1	27.6	27.9	---	---	---	31.3	30.5	30.8	29.4	28.9	29.1
10	28.5	27.9	28.2	32.4	---	---	31.2	30.5	30.8	29.2	28.8	29.0
11	28.6	28.2	28.4	32.0	31.1	31.5	31.4	30.7	31.0	29.4	29.1	29.2
12	28.7	27.9	28.3	32.4	31.1	31.5	32.5	30.7	31.4	29.5	29.1	29.3
13	28.5	27.8	28.2	32.4	31.0	31.5	32.2	31.4	31.8	29.4	28.8	29.0
14	28.9	28.0	28.4	32.1	31.2	31.6	31.9	31.3	31.5	29.8	28.5	28.9
15	28.8	28.1	28.4	32.2	31.3	31.6	31.3	30.9	31.1	29.9	28.9	29.4
16	28.6	27.9	28.3	32.2	31.3	31.7	31.9	30.7	31.2	29.8	28.8	29.2
17	29.0	28.1	28.6	32.3	31.5	32.0	31.6	30.7	31.1	29.0	28.0	28.4
18	28.9	28.4	28.7	32.5	31.8	32.1	31.2	30.7	31.0	28.4	27.7	28.0
19	28.7	28.2	28.5	32.6	31.9	32.2	31.2	30.7	30.9	27.9	27.2	27.5
20	29.2	28.4	28.7	32.5	31.7	32.1	31.4	30.4	30.8	28.3	27.7	27.9
21	29.2	28.4	28.8	32.5	31.9	32.1	31.5	30.6	31.0	28.1	27.8	28.0
22	29.6	28.6	29.0	32.5	31.8	32.0	31.2	30.7	31.0	28.2	27.7	27.9
23	29.8	28.9	29.3	32.9	31.7	32.1	31.1	30.7	30.9	28.6	28.1	28.2
24	30.0	29.1	29.5	32.7	31.0	31.5	30.9	30.5	30.6	28.7	28.5	28.6
25	29.9	29.1	29.5	32.1	31.4	31.6	30.6	30.1	30.3	---	---	---
26	29.9	29.0	29.5	32.1	30.9	31.5	31.0	30.5	30.8	---	---	---
27	30.0	29.2	29.6	31.7	30.7	31.0	30.8	30.5	30.7	26.9	26.0	26.3
28	30.0	29.1	29.6	31.8	30.3	30.8	30.7	30.3	30.5	27.2	26.0	26.5
29	29.9	29.1	29.5	31.5	30.4	30.7	31.1	30.3	30.6	26.7	25.7	26.0
30	29.8	29.1	29.5	31.4	30.3	30.9	32.7	30.6	31.3	25.7	25.2	25.4
31	---	---	---	30.9	30.2	30.6	32.5	31.2	31.7	---	---	---
MONTH	32.0	27.5	29.0	---	---	---	32.7	29.5	30.8	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21500	13200	17100	20400	16900	18900	24900	5050	15200	17000	7120	11800
2	22500	14500	18700	18700	13500	16100	27700	12200	20100	24500	11600	18600
3	22200	15700	19100	21200	5550	13000	34500	27200	31300	28100	11900	20600
4	20800	15500	18000	26200	21200	24300	32800	24100	29000	19000	5130	10800
5	19400	14200	16600	26400	20900	23600	29100	18600	23800	10200	4380	6830
6	22900	14200	17800	25000	19800	22500	18600	2870	11400	25700	6540	18700
7	24100	18900	22400	24200	17100	21200	8380	2870	5190	26700	21300	23800
8	25100	21700	24100	22900	16700	19900	23000	4500	9840	27700	23000	25200
9	24400	20900	22400	22300	19400	20700	23100	4280	11800	26500	21400	24700
10	22400	16500	19300	23300	18800	21800	6000	2750	3480	24800	20300	23200
11	18300	12100	14800	23600	18800	22100	19000	2470	10700	24000	9390	18900
12	16100	11400	13200	23600	18900	21600	26800	14800	21300	19500	3910	11400
13	20500	12000	16200	23500	18400	21000	22000	2760	13300	6580	2720	4020
14	18600	10800	14600	23300	17600	20900	13100	1330	4430	3190	1110	1820
15	---	---	---	22200	18800	20400	13300	1820	7590	19200	2710	12200
16	---	---	---	23000	18000	20800	10600	1490	2490	16000	1110	5010
17	---	---	---	25500	17000	22600	23100	10400	19800	1160	1000	1070
18	---	---	---	26300	23000	24000	24700	22600	23400	2720	1020	1270
19	8030	4020	5160	26400	22100	24100	23600	21000	22400	12700	958	4190
20	6290	4230	4640	25600	21000	23800	25100	5350	18000	3420	479	1480
21	15000	6290	11100	24200	19600	22100	21000	2380	9530	1400	455	622
22	15700	13000	14200	28100	22200	25400	9390	2390	4700	15200	988	6970
23	16300	12000	---	29900	24500	27500	19900	4230	10500	10100	530	4040
24	13900	10900	---	27200	14400	21000	19300	3330	10300	530	456	473
25	17000	13500	---	20700	14700	17900	15200	3540	7320	731	495	512
26	17900	14800	---	22400	14200	19400	18000	4510	10400	997	557	697
27	17300	15100	---	24300	17800	21100	15800	3900	8890	19800	800	11600
28	18900	15200	17100	23700	18100	21000	15900	4730	6410	19800	15600	17400
29	22500	15400	19300	22600	17500	20300	23800	5690	13800	17000	13100	15300
30	26300	20900	23300	20600	4360	12800	24100	8800	17300	16400	13800	15000
31	24600	18000	22100	---	---	---	24500	7930	16500	17500	14600	16700
MONTH	---	---	---	29900	4360	21100	34500	1330	13600	28100	455	10800

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	3420	---	4560	922	2000	466	445	456	14800	5730	11800
2	19400	4320	10800	1430	588	1050	462	443	448	11900	4460	9420
3	20500	13200	17900	588	453	490	453	444	448	4460	1500	2350
4	20300	17800	19100	543	498	522	468	396	425	2190	533	1270
5	18700	15500	17200	534	525	527	408	361	382	568	425	489
6	21900	15000	19100	527	513	519	417	361	404	468	420	438
7	23300	479	8260	526	493	512	434	417	428	445	377	408
8	707	477	498	499	484	493	462	432	446	478	415	454
9	537	491	503	512	491	503	462	453	457	495	466	475
10	521	496	510	551	512	523	475	453	459	496	477	481
11	530	515	520	519	497	509	470	457	462	494	479	482
12	526	514	519	648	519	559	479	460	464	494	478	485
13	6740	514	2170	1890	536	867	474	460	464	478	460	467
14	8750	995	4010	3620	516	1360	469	459	463	508	470	492
15	9780	1080	3800	4650	801	2470	483	449	455	530	505	516
16	10500	1080	4890	4190	568	2440	467	448	452	531	522	527
17	10600	1680	5520	618	430	542	465	446	451	531	515	526
18	22900	1680	9540	508	470	484	463	450	453	1330	507	747
19	9140	482	3420	626	451	479	461	449	451	536	503	513
20	512	479	487	455	446	450	464	449	454	506	234	448
21	5060	512	2670	12300	455	6210	474	454	459	247	210	222
22	11300	2860	6150	5590	1570	2500	468	456	460	255	164	210
23	13900	7790	11000	2440	972	1470	463	451	454	243	192	221
24	13700	4240	8330	1480	488	621	478	450	455	247	225	234
25	27100	11000	18400	495	446	466	465	436	451	335	240	288
26	28400	14800	22900	452	445	448	439	430	433	375	335	361
27	14800	954	5560	449	443	446	441	432	436	388	375	381
28	1600	1030	1340	471	444	458	526	434	481	392	386	389
29	6420	1540	3110	467	438	450	1160	516	680	396	388	391
30	---	---	---	457	441	448	12100	1000	8650	403	395	398
31	---	---	---	465	457	461	---	---	---	402	397	400
MONTH	---	477	---	12300	430	1010	12100	361	729	14800	164	1170

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	397	389	395	---	---	---	3340	2210	2770	6970	5430	6390
2	396	377	388	---	---	---	3230	2540	2950	6720	5360	6260
3	385	372	379	---	---	---	3340	2520	3080	6640	5170	5810
4	426	372	385	---	---	---	4250	3130	3690	5960	3590	5260
5	393	380	389	---	---	---	---	---	---	7890	4840	6160
6	394	384	391	---	---	---	---	---	---	10700	7090	7870
7	447	371	396	---	---	---	---	---	---	13700	10000	11400
8	458	361	421	467	445	459	---	---	---	13500	12400	12800
9	---	---	---	691	464	530	---	---	---	15700	11900	13800
10	---	---	---	864	353	576	5180	4020	4680	15600	13600	14400
11	---	---	---	355	349	352	5260	3720	4380	14500	---	---
12	---	---	---	362	354	358	5260	3800	4570	---	---	---
13	---	---	---	362	358	360	5010	4010	4390	13500	---	---
14	---	---	---	359	353	356	5600	4230	4930	13400	12000	12900
15	---	---	---	357	348	352	6890	5080	6060	12500	10400	11600
16	---	---	---	380	346	358	7110	4300	5780	12300	9960	11400
17	---	---	---	394	347	362	6480	4850	5760	13700	9730	12700
18	---	---	---	388	347	362	6770	5730	6290	15500	12000	14300
19	---	---	---	370	348	357	6760	5140	6020	17100	12500	15000
20	---	---	---	407	347	363	7210	5210	6300	16600	13400	15200
21	---	---	---	398	348	363	7170	5610	6520	16200	12800	14800
22	---	---	---	452	351	381	7080	4450	6250	18500	11200	15400
23	---	---	---	820	350	411	7230	5400	6270	19500	14500	16700
24	---	---	---	373	349	354	7340	5880	6930	18800	14600	16500
25	---	---	---	373	350	355	7180	3700	6120	---	---	---
26	---	---	---	598	350	453	7060	2880	4740	---	---	---
27	---	---	---	1100	352	616	7210	4930	5920	---	---	---
28	---	---	---	1460	359	930	8100	6430	7040	16800	14800	16000
29	---	---	---	1710	374	1030	8100	6600	7420	16200	14800	15500
30	---	---	---	1860	644	1180	8040	6290	7420	19000	15600	17600
31	---	---	---	2330	713	1340	7150	5810	6600	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.3	23.1	24.2	22.4	21.7	22.0	18.7	16.0	17.5	15.5	13.2	14.6
2	25.4	22.4	23.7	21.7	20.6	21.0	18.0	15.6	16.6	16.8	14.6	15.8
3	25.8	23.3	24.4	20.6	17.5	19.6	19.0	15.6	17.1	18.6	16.6	17.7
4	26.0	24.5	25.2	17.6	17.0	17.4	20.1	17.1	18.5	17.9	14.4	15.7
5	25.9	24.9	25.4	18.7	17.4	18.0	20.0	18.5	19.2	15.5	12.3	14.2
6	25.2	22.1	24.1	19.8	18.3	18.9	18.5	17.3	17.8	15.2	12.4	13.5
7	22.8	22.1	22.5	20.5	19.2	19.9	17.5	16.7	17.1	13.4	12.2	12.7
8	23.6	22.2	22.8	21.0	20.1	20.5	17.1	15.7	16.4	13.6	12.4	12.9
9	26.0	23.1	24.3	21.5	20.3	20.8	16.8	15.9	16.6	14.6	13.1	13.8
10	27.3	24.5	25.6	21.5	20.7	21.0	17.0	16.0	16.3	15.5	14.1	14.6
11	27.5	25.2	26.2	22.2	21.0	21.5	16.4	15.8	16.1	16.4	14.8	15.3
12	27.7	25.9	26.6	22.1	21.6	21.9	16.4	15.6	16.1	16.5	15.9	16.2
13	28.1	26.0	26.8	22.8	21.6	22.1	16.8	15.9	16.4	17.4	16.4	16.8
14	28.3	26.6	27.2	22.6	21.4	21.9	16.6	15.3	15.8	17.1	16.2	16.6
15	---	---	---	21.8	21.4	21.6	15.7	14.6	15.2	17.5	15.2	16.1
16	---	---	---	21.9	21.0	21.4	14.9	14.2	14.6	17.8	15.8	16.7
17	---	---	---	21.5	20.7	20.9	14.3	13.0	13.6	18.7	16.5	17.4
18	---	---	---	20.9	20.2	20.6	13.7	13.2	13.5	19.7	17.5	18.2
19	25.3	23.2	24.2	20.8	20.2	20.4	14.3	12.8	13.5	18.9	17.9	18.4
20	23.2	22.1	22.5	21.4	20.4	20.9	14.7	13.5	14.1	18.5	17.1	17.8
21	22.7	19.9	21.4	22.2	21.1	21.5	14.4	12.9	13.9	17.1	16.2	16.6
22	20.9	19.7	20.2	22.9	21.6	22.1	14.3	12.7	13.6	16.5	14.6	16.0
23	20.5	19.6	---	22.8	22.4	22.5	13.5	12.5	13.0	17.3	16.0	16.8
24	20.6	20.1	---	22.7	21.2	21.8	13.2	12.2	12.7	17.1	16.6	16.9
25	20.3	19.8	---	21.5	19.6	20.5	13.2	12.3	12.8	16.8	15.9	16.5
26	20.8	19.4	---	19.8	17.8	18.6	13.6	12.2	12.7	15.9	14.6	15.2
27	21.5	19.9	---	17.9	16.2	17.3	14.0	12.8	13.2	14.6	11.7	13.2
28	22.5	20.8	21.3	18.2	16.4	17.2	13.7	12.2	13.0	12.0	10.8	11.5
29	22.2	21.3	21.8	18.3	17.3	17.7	13.1	12.9	13.0	11.3	10.5	10.8
30	23.1	21.8	22.3	19.2	18.0	18.5	14.3	12.9	13.2	10.9	9.7	10.4
31	22.8	22.1	22.4	---	---	---	15.2	13.2	14.1	10.8	9.3	9.8
MONTH	---	---	---	22.9	16.2	20.3	20.1	12.2	15.1	19.7	9.3	15.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.6	---	10.7	20.4	19.7	20.0	22.7	22.1	22.4	25.3	24.4	24.6
2	11.6	10.9	11.4	20.1	19.5	19.8	22.2	21.9	22.1	24.6	23.9	24.3
3	11.8	10.6	11.2	20.6	19.4	19.9	21.9	20.6	21.2	25.4	24.1	24.7
4	12.3	11.4	11.9	20.4	19.2	19.6	20.6	19.5	19.9	25.1	23.1	24.4
5	12.4	12.0	12.3	19.5	18.5	18.9	19.5	18.7	19.2	23.6	22.2	23.2
6	12.5	11.9	12.1	18.6	18.0	18.2	20.3	19.3	19.8	23.7	22.0	22.8
7	12.5	11.2	11.9	18.6	18.0	18.3	21.2	20.2	20.7	24.3	23.2	23.7
8	12.7	11.2	11.9	19.5	18.5	19.0	21.4	20.9	21.2	25.1	24.3	24.6
9	14.3	12.4	13.3	21.0	19.5	20.3	21.3	20.4	20.9	25.3	24.7	24.9
10	15.2	13.6	14.4	21.8	20.8	21.3	20.9	20.4	20.6	25.5	24.7	25.1
11	15.8	14.6	15.2	21.9	20.9	21.4	21.0	20.5	20.7	25.9	25.0	25.5
12	16.8	15.4	16.1	21.5	20.7	20.9	21.5	20.8	21.0	26.0	25.3	25.6
13	17.5	16.7	17.0	20.9	20.0	20.4	21.2	20.7	20.9	25.9	25.4	25.6
14	18.1	17.1	17.6	20.4	19.4	19.9	21.5	20.5	21.0	25.7	25.3	25.5
15	19.1	17.4	18.3	21.0	18.5	19.7	21.5	20.8	21.1	25.5	24.9	25.2
16	19.9	18.4	19.1	21.1	19.4	20.2	21.7	20.9	21.2	26.1	25.3	25.6
17	20.2	19.1	19.8	20.9	19.9	20.3	22.5	21.5	22.0	26.7	25.9	26.2
18	21.4	19.7	20.4	20.7	19.8	20.2	23.7	22.5	23.0	27.1	26.2	26.5
19	20.7	19.4	20.0	20.4	19.4	19.9	24.8	23.5	24.1	27.5	26.6	27.0
20	19.4	18.8	19.1	20.4	19.4	19.9	24.6	24.3	24.5	27.2	22.7	26.3
21	19.2	18.8	19.0	20.0	16.8	19.0	24.4	24.0	24.2	24.8	22.4	23.5
22	19.4	18.9	19.1	20.6	19.5	20.1	24.1	23.4	23.7	25.4	24.2	24.8
23	19.7	18.9	19.4	21.7	20.5	20.8	23.6	23.2	23.4	26.6	25.4	26.0
24	20.4	19.6	19.9	21.8	20.7	21.2	23.6	22.6	23.1	27.3	26.4	26.8
25	21.6	20.3	21.1	21.8	21.0	21.3	23.7	23.1	23.4	28.4	27.2	27.8
26	21.7	20.5	21.2	22.6	21.4	22.1	25.6	23.2	23.9	28.6	28.0	28.3
27	20.5	19.4	20.0	23.5	22.5	23.0	25.8	23.9	24.6	28.6	27.9	28.3
28	19.4	18.7	19.1	24.1	23.1	23.6	26.3	24.8	25.3	28.7	28.2	28.4
29	19.7	18.8	19.3	23.8	23.3	23.5	26.0	25.0	25.6	29.1	28.3	28.7
30	---	---	---	23.9	23.0	23.4	27.1	25.1	26.0	29.6	28.7	29.1
31	---	---	---	23.5	22.7	23.0	---	---	---	29.8	29.4	29.6
MONTH	21.7	---	16.6	24.1	16.8	20.6	27.1	18.7	22.4	29.8	22.0	25.9

08067252 TRINITY RIVER AT WALLISVILLE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.6	29.7	30.0	30.4	29.5	29.9	31.0	28.2	29.3	33.9	31.4	32.2
2	31.1	29.9	30.3	30.2	29.8	30.0	30.5	28.0	29.0	34.0	32.0	32.7
3	30.7	30.0	30.3	30.6	30.0	30.2	30.5	28.4	28.9	34.0	32.1	32.9
4	30.7	29.7	30.0	30.4	29.9	30.1	31.5	28.6	30.0	33.6	31.9	32.6
5	30.1	29.4	29.8	30.4	29.6	30.0	31.0	29.9	30.7	33.5	31.5	32.3
6	29.8	28.9	29.2	---	29.8	---	31.3	30.8	31.1	32.4	30.5	31.8
7	29.4	28.3	29.0	31.0	---	---	32.0	30.6	31.3	31.1	29.2	30.3
8	29.1	27.1	28.0	31.6	30.9	31.2	32.2	30.6	31.2	29.9	29.1	29.6
9	27.8	27.2	27.7	32.0	31.4	31.7	31.2	30.5	30.9	29.6	27.7	28.8
10	28.3	27.7	28.0	32.1	31.3	31.7	31.6	30.5	31.1	29.0	27.7	28.5
11	28.4	28.0	28.2	32.0	31.3	31.6	32.7	30.9	31.5	30.0	28.3	29.7
12	28.4	27.6	28.0	32.2	31.2	31.6	31.5	30.5	31.0	30.4	29.5	29.9
13	28.2	27.5	27.9	32.1	31.1	31.5	31.4	30.9	31.1	29.9	29.4	29.7
14	28.6	27.8	28.2	32.0	31.3	31.7	32.1	30.3	31.0	29.8	29.2	29.6
15	28.5	27.8	28.2	33.3	31.6	32.1	31.8	30.0	30.9	29.5	29.0	29.2
16	28.4	27.7	28.0	33.3	31.5	32.2	31.9	30.6	31.1	29.4	29.1	29.2
17	28.8	27.9	28.3	33.0	31.8	32.3	31.6	30.8	31.1	29.3	28.6	28.9
18	28.7	28.1	28.4	33.2	31.9	32.4	31.1	30.6	30.8	28.7	27.5	27.9
19	28.6	28.1	28.3	33.4	32.1	32.5	32.6	30.6	31.3	29.3	26.7	27.6
20	29.0	28.2	28.6	33.5	31.9	32.4	32.2	30.7	31.2	28.6	27.2	28.0
21	29.0	28.3	28.7	33.1	32.1	32.4	32.1	30.8	31.3	29.2	27.9	28.5
22	29.4	28.5	28.9	33.3	31.9	32.3	31.9	30.8	31.3	28.7	27.2	28.1
23	29.6	28.8	29.2	33.9	31.3	32.3	31.3	30.6	31.0	28.6	27.6	28.1
24	29.8	29.0	29.4	32.5	31.2	31.7	31.7	30.4	30.7	29.2	28.0	28.8
25	29.7	29.0	29.3	32.8	31.6	31.9	30.5	30.1	30.3	---	---	---
26	29.8	29.0	29.4	32.3	31.0	31.6	31.0	30.2	30.8	---	---	---
27	29.9	29.1	29.5	31.6	30.9	31.2	31.5	29.8	30.8	---	---	---
28	30.0	29.1	29.5	32.0	30.6	31.1	30.8	29.8	30.4	25.1	23.0	23.6
29	29.9	29.1	29.5	31.7	30.4	30.9	30.8	30.1	30.5	23.3	22.7	23.0
30	29.8	29.1	29.5	31.1	30.1	30.7	31.8	30.6	30.9	24.7	22.5	23.2
31	---	---	---	30.8	29.8	30.4	32.5	31.2	31.7	---	---	---
MONTH	31.1	27.1	28.9	---	---	---	32.7	28.0	30.8	---	---	---

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08042800	W Fk Trinity Rv nr Jacksboro, TX	05-01-00	1615	436	--	18.9
	W Fk Trinity Rv nr Jacksboro, TX	05-02-00	1255	630	--	20.0
08044500	W Fk Trinity Rv nr Boyd, TX	11-18-99	1427	136	417	18.5
	W Fk Trinity Rv nr Boyd, TX	05-25-00	1145	19	506	27.5
	W Fk Trinity Rv nr Boyd, TX	07-27-00	1030	150	415	27.7
	W Fk Trinity Rv nr Boyd, TX	08-07-00	1545	131	396	30.4
08044800	Walnut Ck at Reno, TX	03-09-00	1330	2.7	--	20.5
	Walnut Ck at Reno, TX	06-12-00	1320	18	251	27.6
	Walnut Ck at Reno, TX	08-08-00	0915	.01	518	26.6
08045850	Clear Fk Trinity Rv nr Weatherford, TX	04-26-00	1240	1.1	724	21.7
	Clear Fk Trinity Rv nr Weatherford, TX	07-19-00	1554	.72	628	31.1
08047000	Clear Fk Trinity Rv nr Benbrook, TX	11-19-99	0955	1.4	426	17.5
	Clear Fk Trinity Rv nr Benbrook, TX	03-01-00	1200	96	--	18.0
	Clear Fk Trinity Rv nr Benbrook, TX	05-02-00	0830	2.1	375	19.0
	Clear Fk Trinity Rv nr Benbrook, TX	06-21-00	1420	125	--	25.0
	Clear Fk Trinity Rv nr Benbrook, TX	09-07-00	1015	44	325	23.0
08047050	Marys Ck at Benbrook, TX	10-06-99	1200	.12	--	25.7
	Marys Ck at Benbrook, TX	11-29-99	1030	.50	--	13.0
	Marys Ck at Benbrook, TX	01-16-00	1050	.58	532	15.0
	Marys Ck at Benbrook, TX	04-25-00	0947	1.8	585	22.6
	Marys Ck at Benbrook, TX	07-17-00	1324	.27	473	33.5
08047500	Clear Fk Trinity Rv at Ft Worth, TX	03-01-00	1420	18	425	15.0
	Clear Fk Trinity Rv at Ft Worth, TX	07-17-00	1029	4.7	475	30.9
08048000	W Fk Trinity Rv at Ft Worth, TX	11-15-99	1249	12	415	18.0
	W Fk Trinity Rv at Ft Worth, TX	03-24-00	1100	40	--	17.5
	W Fk Trinity Rv at Ft Worth, TX	04-28-00	1230	16	--	22.8
	W Fk Trinity Rv at Ft Worth, TX	08-28-00	1500	11	593	31.5
08048970	Village Ck at Everman, TX	12-01-99	1506	.11	1030	11.3
	Village Ck at Everman, TX	02-15-00	1633	.40	781	15.3
	Village Ck at Everman, TX	03-27-00	1548	11	--	24.0
	Village Ck at Everman, TX	05-04-00	1100	8.3	370	19.0
	Village Ck at Everman, TX	06-05-00	1015	161	400	20.0
08049580	Mtn Ck nr Venus, TX	10-12-99	1140	.00	--	--
	Mtn Ck nr Venus, TX	03-22-00	1013	.66	280	14.9
08049700	Walnut Ck nr Mansfield, TX	12-01-99	1230	8.8	423	13.0
	Walnut Ck nr Mansfield, TX	02-15-00	1440	.36	1740	14.0
	Walnut Ck nr Mansfield, TX	05-03-00	1340	2.1	892	19.0
	Walnut Ck nr Mansfield, TX	06-21-00	1200	3.4	800	25.0
08050400	Elm Fk Trinity Rv at Gainesville, TX	05-12-00	1310	.51	614	29.2
	Elm Fk Trinity Rv at Gainesville, TX	06-27-00	1706	.30	670	30.4
08050800	Timber Ck nr Collinsville, TX	06-13-00	1110	.45	382	26.0
08050840	Range Ck nr Collinsville, TX	05-12-00	0832	.03	332	23.0
	Range Ck nr Collinsville, TX	06-27-00	0859	.03	385	24.5
08051500	Clear Ck nr Sanger, TX	03-22-00	1428	4.3	546	14.5
	Clear Ck nr Sanger, TX	05-12-00	1455	1.2	548	30.0
08052700	Little Elm Ck nr Aubrey, TX	10-08-99	1020	.02	--	19.3
	Little Elm Ck nr Aubrey, TX	12-15-99	1215	2.0	663	5.3
	Little Elm Ck nr Aubrey, TX	02-22-00	1330	.24	1110	14.5
	Little Elm Ck nr Aubrey, TX	05-10-00	1545	7.6	403	23.0
	Little Elm Ck nr Aubrey, TX	06-29-00	1014	.27	--	26.0

MULTIPLE STATION ANALYSES

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08053000	Elm Fk Trinity Rv nr Lewisville, TX	05-10-00	1302	214	450	22.5
	Elm Fk Trinity Rv nr Lewisville, TX	08-04-00	1621	1040	405	30.3
	Elm Fk Trinity Rv nr Lewisville, TX	08-23-00	1007	528	408	28.8
08053500	Denton Ck nr Justin, TX	02-02-00	1215	2.2	640	5.8
08057200	White Rock Ck at Greenville Ave, Dallas, TX	10-07-99	1400	12	650	20.9
	White Rock Ck at Greenville Ave, Dallas, TX	12-02-99	1031	23	640	13.8
	White Rock Ck at Greenville Ave, Dallas, TX	02-17-00	1345	28	612	16.7
	White Rock Ck at Greenville Ave, Dallas, TX	03-21-00	1116	28	642	15.8
	White Rock Ck at Greenville Ave, Dallas, TX	03-29-00	0700	--	343	20.3
	White Rock Ck at Greenville Ave, Dallas, TX	04-28-00	0730	--	580	19.6
	White Rock Ck at Greenville Ave, Dallas, TX	05-23-00	0905	33	526	25.0
	White Rock Ck at Greenville Ave, Dallas, TX	05-31-00	0700	--	476	28.0
	White Rock Ck at Greenville Ave, Dallas, TX	06-27-00	0730	--	597	27.0
08058900	E Fk Trinity Rv at McKinney, TX	02-22-00	1620	.65	565	15.0
	E Fk Trinity Rv at McKinney, TX	05-11-00	1010	21	495	21.4
08059400	Sister Grove Ck nr Blue Ridge, TX	10-07-99	1630	100	--	20.0
	Sister Grove Ck nr Blue Ridge, TX	05-11-00	1340	126	1640	21.5
	Sister Grove Ck nr Blue Ridge, TX	06-01-00	1158	28	1800	24.3
	Sister Grove Ck nr Blue Ridge, TX	06-28-00	1621	31	--	24.7
08063100	Richland Ck nr Dawson, TX	03-22-00	1545	1.1	335	25.5
	Richland Ck nr Dawson, TX	05-02-00	1450	.88	508	19.5
	Richland Ck nr Dawson, TX	06-20-00	1505	1580	1100	25.0
08063800	Waxahachie Ck nr Bardwell, TX	03-13-00	0843	.04	647	9.8
08065000	Trinity Rv nr Oakwood, TX	03-01-00	1125	4160	452	17.3
	Trinity Rv nr Oakwood, TX	05-09-00	1620	5540	301	25.3
	Trinity Rv nr Oakwood, TX	06-15-00	1720	13400	285	26.5
	Trinity Rv nr Oakwood, TX	06-21-00	1121	16700	322	26.8
	Trinity Rv nr Oakwood, TX	08-16-00	1000	830	841	31.4
08065200	Upper Keechi Ck nr Oakwood, TX	02-29-00	1302	16	340	17.1
	Upper Keechi Ck nr Oakwood, TX	05-09-00	0910	66	301	24.6
08065350	Trinity Rv nr Crockett, TX	02-19-00	1405	1310	560	12.9
	Trinity Rv nr Crockett, TX	03-14-00	1100	2240	590	17.6
	Trinity Rv nr Crockett, TX	05-25-00	1530	4860	374	26.8
	Trinity Rv nr Crockett, TX	06-28-00	1311	15400	344	29.3
	Trinity Rv nr Crockett, TX	08-17-00	0855	787	828	31.9
08065800	Bedias Ck nr Madisonville, TX	05-02-00	1241	612	100	19.6
08066170	Kickapoo Ck nr Onalaska, TX	04-19-00	1035	1.3	436	25.5
08066200	Long King Ck at Livingston, TX	02-11-00	1300	6.6	396	19.3
	Long King Ck at Livingston, TX	04-19-00	1200	6.4	383	26.0
	Long King Ck at Livingston, TX	06-29-00	1652	6.0	423	31.1
	Long King Ck at Livingston, TX	08-21-00	1145	.32	487	31.2
08066250	Trinity Rv nr Goodrich, TX	01-18-00	1255	1990	398	15.0
	Trinity Rv nr Goodrich, TX	04-18-00	1130	5540	432	20.0
	Trinity Rv nr Goodrich, TX	08-28-00	1313	1090	398	31.0
08066300	Menard Ck nr Rye, TX	03-09-00	1040	23	100	20.3
	Menard Ck nr Rye, TX	04-20-00	0928	29	146	22.0
	Menard Ck nr Rye, TX	06-29-00	1349	21	105	29.9
	Menard Ck nr Rye, TX	08-21-00	1346	9.6	111	29.0
08066500	Trinity Rv at Romayor, TX	02-16-00	1430	2090	399	18.9
	Trinity Rv at Romayor, TX	06-29-00	1002	16500	373	30.7
	Trinity Rv at Romayor, TX	09-07-00	1045	1100	380	30.0
08067070	Coastal Water Authority Canal nr Dayton, TX	04-20-00	1316	806	414	24.5

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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 2000

Station name and number	Location	Period of record	Water Year 2000 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 1985-2000	05-01-00	8.45	--a/	09-07-62	26.90	27,000

✞ Operated as a continuous-record station.
ϕ Operated as an unpublished stage-only station.
a/ Gage Height only, discharge measurement not available.

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