

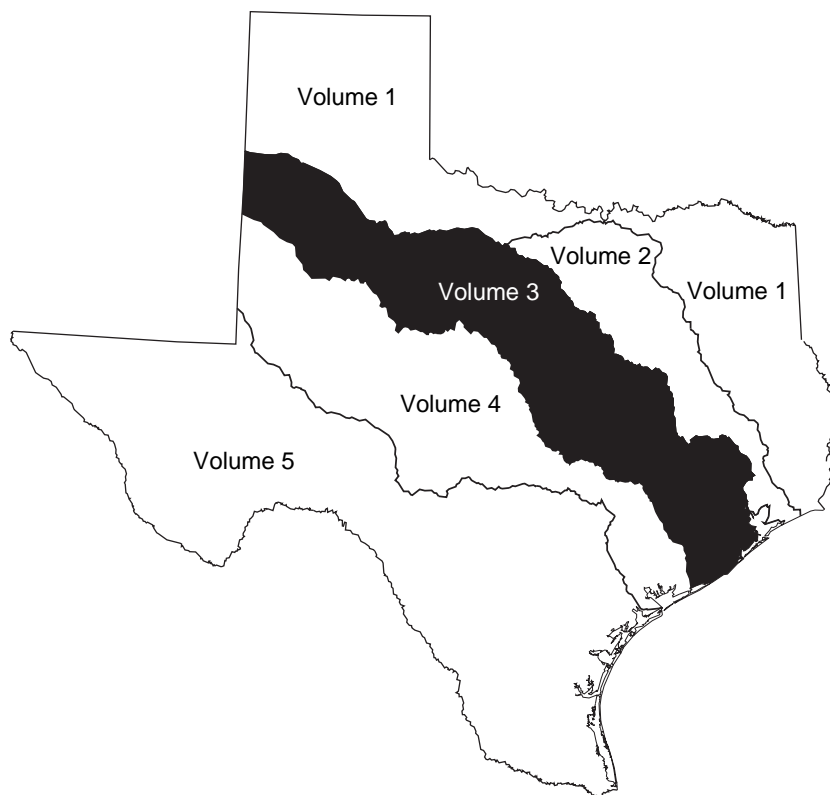
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Texas Water Year 2001

**Volume 3. San Jacinto River Basin, Brazos River Basin,
San Bernard River Basin, and Intervening Coastal Basins**

By S.C. Gandara

Water-Data Report TX-01-3



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



UNITED STATES DEPARTMENT OF THE INTERIOR

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2002

PREFACE

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

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

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

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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		
CEDAR BAYOU BASIN		
Cedar Bayou near Crosby (d) -----	08067500	36
SAN JACINTO RIVER BASIN		
West Fork San Jacinto River:		
Lake Conroe near Conroe (e) (c) (t) -----	08067600	38
West Fork San Jacinto River below Lake Conroe near Conroe (d) -----	08067650	46
West Fork San Jacinto River near Conroe (d) -----	08068000	48
West Fork San Jacinto River above Lake Houston near Porter (d) -----	08068090	50
Spring Creek near Tomball (d) (c) (t) -----	08068275	52
Panther Branch:		
Bear Branch at Research Forest Blvd., The Woodlands (d) -----	08068390	62
Panther Branch at Gosling Road, The Woodlands (d) (c) (t) -----	08068400	64
Panther Branch near Spring (d) -----	08068450	74
Spring Creek near Spring (d) (c) (t) -----	08068500	76
Cypress Creek at Katy-Hockley Road near Hockley (d) -----	08068720	86
Cypress Creek at House and Hahl Road near Cypress (d) -----	08068740	88
Little Cypress Creek near Cypress (d) -----	08068780	90
Cypress Creek at Grant Road near Cypress (d) -----	08068800	92
Cypress Creek at Stuebner-Airline Road near Westfield (d) -----	08068900	94
Cypress Creek near Westfield (d) (c) (t) (b) -----	08069000	96
East Fork San Jacinto River near Cleveland (d) -----	08070000	100
East Fork San Jacinto River near New Caney (d) (c) (t) (b) -----	08070200	102
Caney Creek near Splendora (d) -----	08070500	106
San Jacinto River:		
Peach Creek at Splendora (d) -----	08071000	108
Luce Bayou above Lake Houston near Huffman (d) -----	08071280	110
Lake Houston near Sheldon (e) (c) (t) (b) -----	08072000	112
San Jacinto River near Sheldon (e) -----	08072050	124
Buffalo Bayou near Katy (d) -----	08072300	126
Barker Reservoir near Addicks (e) -----	08072500	128
South Mayde Creek:		
Bear Creek near Barker (d) -----	08072730	130
Langham Creek at West Little York Road near Addicks (d) -----	08072760	132
Addicks Reservoir near Addicks (e) -----	08073000	134
Buffalo Bayou near Addicks (d) -----	08073500	136
Buffalo Bayou at West Belt Drive, Houston (d) -----	08073600	138
Buffalo Bayou at Piney Point (d) -----	08073700	140
Buffalo Bayou at Houston (d) -----	08074000	142
Whiteoak Bayou:		
Cole Creek at Deihl Road, Houston (d) -----	08074150	144
Brickhouse Gulley at Costa Rica Street, Houston (d) -----	08074250	146
Whiteoak Bayou at Houston (d) -----	08074500	148
Whiteoak Bayou at Main Street, Houston (e) -----	08074598	150
Buffalo Bayou at Turning Basin, Houston (e) (t) -----	08074710	152
Brays Bayou:		
Keegans Bayou at Roark Road near Houston (d) -----	08074800	162
Brays Bayou at Houston (d) -----	08075000	164
Sims Bayou at Hiram Clarke Street, Houston (d) -----	08075400	166
Sims Bayou at Houston (d) -----	08075500	168
Berry Bayou at Forest Oaks Street, Houston (e) -----	08075650	170
Vince Bayou at Pasadena (d) -----	08075730	172
Hunting Bayou at Interstate Highway 610, Houston (d) -----	08075770	174
Greens Bayou near U.S. Highway 75 near Houston (d) -----	08075900	176
Greens Bayou near Houston (d) -----	08076000	178
Garners Bayou near Humble (d) -----	08076180	180
Halls Bayou at Houston (d) -----	08076500	182
Greens Bayou at Ley Road, Houston (d) -----	08076700	184

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

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	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
CLEAR CREEK BASIN		
Clear Creek near Friendswood (d) -----	08077600	186
COASTAL BASIN		
Moses Lake-Galveston Bay near Texas City (e) -----	08077650	188
HIGHLAND BAYOU BASIN		
Highland Bayou Diversion Channel near Hitchcock (e) -----	08077690	190
Highland Bayou near Hitchcock (e) -----	08077695	192
LaMarque Levee Pump Station near LaMarque (e) -----	08077740	194
CHOCOLATE BAYOU BASIN		
Chocolate Bayou near Alvin (d) -----	08078000	198
BRAZOS RIVER BASIN		
Double Mountain Fork Brazos River (head of Brazos River):		
Double Mountain Fork Brazos River at Justiceburg (d) (c) (t) -----	08079600	202
Lake Alan Henry Reservoir near Justiceburg (e) -----	08079700	208
Double Mountain Fork Brazos River near Aspermont (d) (c) (t) -----	08080500	210
Salt Fork Brazos River:		
White River Reservoir near Spur (e) -----	08080910	214
Salt Fork Brazos River near Aspermont (d) -----	08082000	216
Brazos River:		
Brazos River at Seymour (d) (c) (t) -----	08082500	220
Millers Creek near Munday (d) -----	08082700	224
Millers Creek Reservoir near Bomarton (e) -----	08082800	226
Clear Fork Brazos River near Roby (d) -----	08083100	228
Lake Sweetwater near Sweetwater (e) -----	08083200	230
Elm Creek:		
Lake Abilene near Buffalo Gap (e) -----	08083270	232
Cat Claw Creek at Abilene (d) -----	08083420	234
Cedar Creek at Interstate 20, Abilene (d) -----	08083480	236
Fort Phantom Hill Reservoir near Nugent (e) -----	08083500	238
Clear Fork Brazos River at Nugent (d) -----	08084000	240
Paint Creek:		
Lake Stamford near Haskell (e) -----	08084500	242
California Creek near Stamford (d) -----	08084800	244
Clear Fork Brazos River at Fort Griffin (d) -----	08085500	246
Hubbard Creek below Albany (d) (c) (t) -----	08086212	248
Big Sandy Creek:		
Lake Cisco near Cisco (e) -----	08086215	256
Big Sandy Creek above Breckenridge (d) (c) (t) -----	08086290	258
Hubbard Creek Reservoir near Breckenridge (e) (c) (t) -----	08086400	266
Gonzales Creek:		
Lake Daniel near Breckenridge (e) -----	08086600	272
Brazos River near South Bend (d) -----	08088000	274
Salt Creek:		
Lake Graham near Graham (e) -----	08088400	276
Possum Kingdom Lake near Graford (e) -----	08088500	278
Brazos River near Graford (d) -----	08088610	280
Brazos River near Palo Pinto (d) -----	08089000	282
Palo Pinto Creek:		
Lake Palo Pinto near Santo (e) -----	08090300	284
Rock Creek:		
Lake Mineral Wells near Mineral Wells (e) -----	08090700	286
Brazos River near Dennis (d) -----	08090800	288
Lake Granbury near Granbury (e) -----	08090900	290
Brazos River near Glen Rose (d) (c) (t) -----	08091000	296
Paluxy River at Glen Rose (d) -----	08091500	300
Squaw Creek Reservoir near Glen Rose (e) -----	08091730	302
Squaw Creek near Glen Rose (d) -----	08091750	304
Nolan River:		
Lake Pat Cleburne near Cleburne (e) -----	08091900	306
Nolan River at Blum (d) (c) (t) -----	08092000	308

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

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
BRAZOS RIVER BASIN--Continued		
Lake Whitney near Whitney (e) (c) (t) (b) -----	08092500	312
Brazos River at Whitney Dam near Whitney (c) (t) -----	08092600	328
Brazos River near Aquilla (d) -----	08093100	330
Aquilla Lake above Aquilla (e) -----	08093350	332
Aquilla Creek above Aquilla (d) -----	08093360	334
Aquilla Creek near Aquilla (d) -----	08093500	336
North Bosque River at Hico (d) -----	08094800	338
North Bosque River near Clifton (d) -----	08095000	340
North Bosque River at Valley Mills (d) (c) (t) -----	08095200	342
South Bosque River:		
Middle Bosque River near McGregor (d) (c) (t) -----	08095300	346
Hog Creek near Crawford (d) -----	08095400	348
Waco Lake near Waco (e) (c) (t) (b) -----	08095550	350
Bosque River near Waco (c) (t) -----	08095600	362
Brazos River at Waco (d) -----	08096500	364
Brazos River near Highbank (d) -----	08098290	366
Leon Reservoir near Ranger (e) -----	08099000	368
Leon River near DeLeon (d) -----	08099100	370
Sabana River near DeLeon (d) -----	08099300	372
Proctor Lake near Proctor (e) -----	08099400	374
Leon River near Hamilton (d) -----	08100000	376
Leon River at Gatesville (d) -----	08100500	378
Cowhouse Creek at Pidcoke (d) -----	08101000	380
Belton Lake near Belton (e) -----	08102000	382
Leon River near Belton (d) -----	08102500	384
Lampasas River near Kempner (d) -----	08103800	386
Rocky Creek:		
South Fork Rocky Creek near Briggs (d) -----	08103900	388
Stillhouse Hollow Lake near Belton (e) -----	08104050	390
Lampasas River near Belton (d) -----	08104100	392
Little River near Little River (d) -----	08104500	394
Lake Georgetown near Georgetown (e) -----	08104650	396
North Fork San Gabriel River near Georgetown (d) -----	08104700	398
South Fork San Gabriel River at Georgetown (d) -----	08104900	400
Berry Creek near Georgetown (d) -----	08105100	402
Granger Lake near Granger (e) -----	08105600	404
San Gabriel River at Lanepport (d) -----	08105700	406
Little River near Rockdale (d) -----	08106350	408
Little River at Cameron (d) -----	08106500	410
Brazos River at State Highway 21 near Bryan (d) -----	08108700	414
Middle Yegua Creek (head of Yegua Creek) near Dime Box (d) -----	08109700	416
East Yegua Creek near Dime Box (d) -----	08109800	418
Somerville Lake near Somerville (e) -----	08109900	420
Davidson Creek near Lyons (d) -----	08110100	422
Lake Mexia near Mexia (e) -----	08110300	424
Navasota River above Groesbeck (d) -----	08110325	426
Big Creek near Freestone (d) -----	08110430	428
Lake Limestone near Marquez (e) -----	08110470	430
Navasota River near Easterly (d) -----	08110500	432
Navasota River at OSR near Bryan (d) -----	08110800	434
Brazos River near Hempstead (d) -----	08111500	436
Mill Creek near Bellville (d) -----	08111700	438
Brazos River at Richmond (d) (c) (t) -----	08114000	440
Big Creek near Needville (d) -----	08115000	444
Brazos River near Rosharon (d) -----	08116650	446
SAN BERNARD RIVER BASIN		
San Bernard River near Boling (d) -----	08117500	450

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

ix

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Texas have been discontinued. Daily stream-flow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as partial-record stations. 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	1942-93, 2000
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
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, 1979-82
“ “ “ “ (e)			
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
Ayish Bayou at San Augustine (d)	08039000	15.80	1924-25

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Angelina River at Horger (d)	08039500	3,486	1928-51, 1967-73
Little Sandy Creek Tributary near Jasper (e)	08039900	0.46	1967-74
Drakes Branch near Spurger (e)	08041400	5.03	1967-74
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
Cedar Creek at Bonnie View Road, Dallas (e)	08057050	9.42	1965-78

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
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
Newton Creek at Interstate Highway 635, Dallas (e)	08057135	5.91	1974-78
Cottonwood Creek at Forest Lane, Dallas (e)	08057140	8.50	1962-78
Floyd Branch at Forrest Lane, Dallas (e)	08057160	4.17	1962-78
White Rock Creek at White Rock Lake, Dallas (d)	08057300	100	1963-79
Ash Creek at Highland Road, Dallas (e)	08057320	6.92	1963-78
Forney Creek at Lawnview Avenue, Dallas (e)	08057340	1.84	1963-72
White Rock Creek at Scyene Road, Dallas (d)	08057400	122	1963-79
Trinity River below Dallas (d)	08057410	6,278	1956-98
Elm Creek at Seco Boulevard, Dallas (e)	08057415	1.25	1973-78
Fivemile Creek at Kiest Boulevard, Dallas (e)	08057418	7.65	1974-78
Fivemile Creek at US Highway 77 West, Dallas (e)	08057420	14.30	1965-78
Woody Branch at US Highway 77 West, Dallas (e)	08057425	10.30	1965-78
Fivemile Creek at Lancaster Road, Dallas (e)	08057430	37.90	1965-78
White Branch at Interstate Highway 635, Dallas (e)	08057440	2.53	1974-78
Tenmile Creek at State Highway 342 at Lancaster (d)	08057450	52.80	1970-79
Honey Creek SWS #11 near McKinney (e)	08057500	2.14	1952-73
Honey Creek SWS #12 near McKinney (e)	08058000	1.26	1952-77
Honey Creek near McKinney (d)	08058500	39	1951-73
East Fork Trinity River near McKinney (d)	08059000	190	1949-75
Arls Branch near Westminster (e)	08059200	0.52	1965-74
Sister Grove Creek near Princeton (d)	08059500	113	1949-75
East Fork Trinity River above Pilot Grove near Lavon (d)	08060000	324	1949-53
East Fork Trinity River near Lavon (d)	08061000	773	1954-89
East Fork Trinity River near Rockwall (d)	08061500	840	1924-54
Duck Creek at Buckingham Road, Garland (e)	08061620	8.05	1969-76
Duck Creek near Garland (d)	08061700	31.6	1958-93
South Mesquite Creek at State Highway 352, Mesquite (e)	08061920	13.40	1969-76
South Mesquite Creek at Mercury Road near Mesquite (d)	08061950	23	1969-79
Cedar Creek Reservoir Spillway Outflow near Trinidad (d)	08062650	1,007	1966-82
Cedar Creek near Kemp (d)	08062800	189	1963-87
Bachelor Creek near Terrell (e)	08062850	13.0	1967-74
Kings Creek near Kaufman (d)	08062900	233	1963-87
Lacey Fork near Mabank (d)	08062980	118	1983-84
Cedar Creek near Mabank (d)	08063000	733	1939-66
South Twin Creek near Eustace (d)	08063003	27.40	1983-84
Red Oak Branch near Eustace (e)	08063005	0.90	1966-74
Cedar Creek at Trinidad (d)	08063020	1,011	1965-71
Briar Creek Tributary near Corsicana (e)	08063180	0.72	1966-74
Pin Oak Creek near Hubbard (d)	08063200	17.60	1956-72
Richland Creek near Richland (d)	08063500	734	1939-88
Alvarado Branch near Alvarado (e)	08063550	0.84	1966-74
Kings Branch near Reagor Springs (e)	08063620	0.62	1966-74
Chambers Creek near Corsicana (d)	08064500	963	1939-84
Richland Creek near Fairfield (d)	08064600	1,957	1972-83
Saline Branch Tributary near Bethel (e)	08064630	0.22	1967-74
Catfish Creek near Tennessee Colony (d)	08064800	207	1962-89
Mayes Branch near Latexo (e)	08065320	4.26	1967-74
Trinity River near Midway (d)	08065500	14,450	1939-71
Caney Creek near Madisonville (d)	08065700	112	1963-77
Nelson Creek near Riverside (e)	08065950	86.4	1949, 1965, 1970-74
Harmon Creek near Huntsville (e)	08065975	89.2	1973-81
West Carolina Creek near Oakhurst (e)	08066050	15.2	1949, 1966-73
White Rock Creek near Trinity (e)	08066100	222	1974-85
White Rock Creek near Trinity (e)	08066130	228	1966-74
Tantaboque Creek near Trinity (e)	08066140	61.3	1966-73

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
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 McKee Street, Houston (d)	08074610	469	1992-2000
Buffalo Bayou at 69th Street, Houston (e)	08074700	476	1961-86
Brays Bayou at Addicks-Clodine Rd., Houston (e)	08074750	0.87	1974-77
Brays Bayou at Alief Road, Alief (e)	08074760*	12.9	1977-85
Keegans Bayou at Keegans Road near Houston (e)	08074780*	7.47	1964-71
Keegans Bayou at Roark Road near Houston (d)	08074800*	13.0	1964-85
Binliff 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
North Elm Creek near Throckmorton (e)	08082900	3.58	1965-77
Elm Creek near Proffitt (e)	08082950	275	1969-85
Brazos River near Graham (d)	08083000	16,830	1916-20
Clear Fork Brazos River at Hawley (d)	08083240	1,416	1968-89

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Mulberry Creek near Hawley (d)	08083245	205	1968-89
Elm Creek near Abilene (d)	08083300	133	1964-79
Little Elm Creek near Abilene (d)	08083400	39.10	1964-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene (d)	08083470	119	1971-84
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
Aquilla Creek at Farm Road 933 near Ross (e)	08093580	397	1976-85
North Bosque River at Stephenville (d)	08093700	95.90	1958-79

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

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
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
Sebourne Creek near Rosenberg (e)	08114900	5.78	1968-74
Fairchild Creek near Needville (d)	08115500	26.20	1947-55
Big Creek near Guy (d)	08116000	116	1947-50
Dry Creek near Rosenberg (d)	08116400	8.65	1959-79
Dry Creek near Richmond (d)	08116500	12.20	1947-50, 1957-58
San Bernard River near West Columbia (e)	08117700	766	1949, 1971-77
Mound Creek Tributary at Guy (e)	08117800	1.48	1966-73
Big Boggy Creek near Wadsworth (d)	08117900	10.30	1970-77
Bull Creek near Ira (d)	08118500	26.30	1948-54, 1959-62
Colorado River below Bull Creek near Ira (e)	08118600	3,524	1975-78
Bluff Creek near Ira (d)	08119000	42.60	1948-65
Bluff Creek at mouth near Ira (e)	08119100	44.1	1975-78
Colorado River near Ira (d)	08119500	3,483	1948-52, 1959-89
Morgan Creek near Westbrook (d)	08121500	273	1954-63
Graze Creek near Westbrook (d)	08122000	21.70	1954-59
Morgan Creek near Colorado City (d)	08122500	313	1947-49
Champlin Creek near Colorado City (d)	08123500	198	1948-59
Sulphur Springs Draw near Wellman (e)	08123620	41.80	1966-74
Beals Creek above Big Spring (d)	08123650	9,319	1959-79
Beals Creek at Big Spring (d)	08123700	9,341	1957-59
Beals Creek near Coahoma (d)	08123720	9,383	1983-88
Coahoma Draw Tributary near Big Spring (e)	08123750	2.38	1966-74
Bull Creek Tributary near Forsan (e)	08123760	0.4	1966-74
Colorado River near Silver (d)	08123900	14,997	1957-70
Bitter Creek near Silver (e)	08123920	4.3	1967-74
Salt Creek Tributary near Hylton (e)	08125450	0.25	1966-74
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
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
Spring Creek near Tankersley (d)	08131000	699	1930-60
South Concho River above Gardner Dam near San Angelo (e)	08131190	434	1966-74, 2000
South Concho River above Pecan Creek near San Angelo (e)	08131300	470	1963-84
Tom Green Co. WCID No. 1 Canal near San Angelo (d)	08131600	N/A	1963-81
South Concho River at San Angelo (d)	08132500	3,866	1932-53
Quarry Creek near Sterling City (e)	08133300	3.25	1965-73
North Concho River at Sterling City (d)	08133500*	588.0	1939-87

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Broome Creek near Broome (e)	08133800	0.29	1965-73
Nolke Station Creek near San Angelo (e)	08134300	0.59	1965-73
Gravel Pit Creek near San Angelo (e)	08134400	0.19	1965-74
North Concho River at San Angelo (d)	08135000	1,525	1916-31, 1947-90
Concho River near Veribest (e)	08136150	5,610	1970-74, 1998-2000
Puddle Creek near Veribest (e)	08136200	12.0	1966-73
Frog Pond Creek near Eden (e)	08136300	1.96	1967-73
Mukewater Creek SWS No. 10A near Trickham (e)	08136900	15.3	1965-72
Mukewater Creek SWS No. 9 near Trickham (e)	08137000	4.02	1961-72
Mukewater Creek at Trickham (d)	08137500	70	1951-73
Deep Creek SWS No. 3 near Placid (e)	08139000	3.42	1954-60
Deep Creek near Mercury (d)	08139500	43.90	1954-73
Deep Creek SWS No. 8 near Mercury (e)	08140000	5.14	1952-71
Dry Prong Deep Creek near Mercury (d)	08140500	8.31	1951-71
Lake Clyde near Clyde (e)	08140600	36.9	1970-85
Pecan Bayou near Cross Cut (d)	08140700	532	1968-79
Jim Ned Creek near Coleman (d)	08140800	333	1965-80
McCall Branch near Coleman (e)	08141100	2.17	1966-73
Hords Creek near Valera (d)	08141500	54.20	1947-91
Hords Creek at Coleman (d)	08142000	107	1941-70
Brown County WID No. 1 Canal near Brownwood (d)	08142500	N/A	1950-83
Pecan Bayou at Brownwood (d)	08143500	1,660	1917-18, 1924-83
Brown Creek Tributary near Goldthwaite (e)	08143700	2.48	1966-73
Noyes Canal at Menard (d)	08144000	N/A	1924-83
Brady Creek near Eden (d)	08144800	101	1962-85
Brady Creek Tributary near Brady (e)	08145100	4.05	1967-73
Lake Buchanan near Burnet (e)	08148000	31,910	1937-90
Llano River Tributary near London (e)	08150200	0.58	1966-73
Stone Creek Tributary near Art (e)	08150900	0.40	1966-73
Llano River near Castell (d)	08151000	3,747	1924-39
Johnson Creek near Valley Spring (e)	08151300	5.66	1967-73
Sandy Creek near Kingsland (d)	08152000	327	1967-93
Little Flatrock Creek near Marble Falls (e)	08152700	3.20	1966-74
Spring Creek near Fredericksburg (e)	08152800	15.20	1967-73
Pedernales River at Stonewall (d)	08153000	647	1924-34
Cane Branch at Stonewall (e)	08153100	1.37	1965-71
Pedernales River near Spicewood (d)	08154000	1,294	1924-39
Lake Travis near Austin (d)	08154500	38,755	1940-90
Colorado River below Mansfield Dam, Austin (d)	08154510	38,755	1975-90
West Bull Creek at Loop 360 near Austin (e)	08154750	6.77	1976-82
Bull Creek at FM 2222, Austin (e)	08154760	30.4	1975-78
Bee Creek at West Lake Drive near Austin (e)	08154950	3.28	1980-82
Barton Creek near Camp Craft Road near Austin (d)	08155260	109	1982-89
Skunk Hollow Creek below Pond I 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
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

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
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 Speaks (d)	08164350	437	1982-89,
			1995-2000
Navidad River at Morales (d)	08164370	549	1995-2000
Navidad River near Ganado (d)	08164500	826	1939-80
Guadalupe River above Kerrville (e)	08166150	488	1976-79
Turtle Creek Tributary near Kerrville (e)	08166300	0.46	1966-74
Guadalupe River near Comfort (d)	08166500	762	1918-32
Rebecca Creek near Spring Branch (d)	08167600	10.90	1960-79
Blieders Creek at New Braunfels (e)	08168600	16.0	1962-89
Panther Canyon at New Braunfels (e)	08168700	0.73	1962-89
Trough Creek near New Braunfels (e)	08168720	0.48	1966-74
W.P. Dry Comal Creek Tributary near New Braunfels (e)	08168750	0.32	1966-74
Dry Comal Creek at New Braunfels (e)	08168800	N/A	1962-74
Walnut Branch near Seguin (e)	08169750	5.46	1967-74
East Pecan Branch near Gonzales (e)	08169850	0.24	1965-74
San Marcos River at San Marcos (d)	08169950	83.7	1915-21
West Elm Creek near Niederwald (e)	08172100	0.44	1965-74
Plum Creek near Lockhart (d)	08172500	184	1925-30
San Marcos River at Ottine (d)	08173500	1,249	1915-43
Guadalupe River below Cuero (d)	08176000	4,923	1903-07,
			1916-19,
			1921-36
Irish Creek near Cuero (e)	08176200	15.5	1967-74
Three Mile Creek near Cuero (e)	08176600	0.48	1966-74
Coletto Creek Reservoir inflow (Guadalupe diversion) near Schroeder (d)	08176990	357	1980-94
Coletto Creek near Schroeder (d)	08177000	369	1930-34,
			1953-79
Olmos Creek Tributary at FM 1535 at Savano Park (e)	08177600	0.33	1969-81
Olmos Reservoir at San Antonio (e)	08177800	32.4	1968-71,
			1976-89,
			1992-95
San Antonio River at Woodlawn Avenue, San Antonio (e)	08177860	36.4	1989-95
San Antonio River at Dolorosa, San Antonio (d)	08177920	N/A	1980-86

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
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 River at La Coste (d)	08180640	805	1987-2000
Medio Creek at Pearsall Road, San Antonio (e)	08180750	47.9	1987-95
Leon Creek Tributary at FM 1604, San Antonio (e)	08181000	5.57	1968-80
French Creek Tributary near Helotes (e)	08181200	1.08	1966-74
Ranch Creek near Helotes (d)	08181410		1978
Leon Creek Tributary at Kelly Air Force Base (d)	08181450	1.19	1969-79
Calaveras Creek SWS No. 6 (inflow) near Elmendorf (e)	08182400	7.01	1957-77
Calaveras Creek near Elmendorf (d)	08182500	77.20	1954-71
San Antonio River at Calaveras (d)	08183000	1,786	1918-25
Cibolo Creek near Boerne (d)	08183900	68.4	1963-95
Cibolo Creek near Bulverde (d)	08184000	198	1946-66
Cibolo Creek above Bracken (d)	08184500	250	1946-51
Cibolo Creek at Sutherland Springs (d)	08185500	665	1924-29
Ecletto 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
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

Station name	Station number	Drainage area (mi ²)	Period of record (water years)
Leona River Tributary near Uvalde (e)	08203500	1.21	1966-74
Leona River Spring Flow near Uvalde (d)	08204000*	1.21	1939-77
Leona River near Divot (d)	08204500	565	1924-29
Frio River at Calliham (d)	08207000	5,491	1925-26, 1932-81
Rutledge Hollow Creek near Poteet (e)	08207200	9.33	1966-74
Rutledge Hollow at 7th Street, Poteet (d)	08207220	N/A	1979-2000
Atascoas River at U.S. Highway 281, Pleasanton (d)	08207300	N/A	1973-2000
Atascosa River near McCoy (d)	08207500	530	1951-57
Lucas Creek near Pleasanton (e)	08207700	32.80	1966-73
Ramirena Creek near George West (d)	08210300	84.40	1968-72
Lagarto Creek near George West (d)	08210400	155	1972-89
Nueces River below Mathis (d)	08211100	16,726	1966-67
Rincon Bayou Channel near Calallen (d)	08211503	N/A	1996-2000
Pintas Creek Tributary near Banquete (e)	08211550	3.28	1966-74
Hamon Creek near Freer (e)	08211600	0.73	1965-73
San Diego Creek at Alice (d)	08211800	319	1964-89
Lake Alice at Alice (e)	08211850	150	1965-86
San Fernando Creek near Alice (d)	08212000	518	1962-63
North Las Animas Creek Tributary near Freer (e)	08212320	0.07	1969-74
Rio Grande at Vinton Bridge near Anthony (d)	08363840	28,680	1969-74
Northgate Reservoir at El Paso (e)	08365540	6.89	1973-75
Range Reservoir at El Paso (e)	08365545	11.89	1973-75
Franklin Canal at El Paso (d)	08365550	N/A	1969-72
McKelligon Canyon at El Paso (d)	08365600	2.30	1958-77
Government Ditch at El Paso (d)	08365800	6.40	1958-77
Rio Grande at Jaurez, MX (d)	08366000	29,350	1938-56
Riverside Canal near Socorro (d)	08366400	37,830	1969-72
Rio Grande at Island Station near El Paso (d)	08366500	29,743	1938-60
Rio Grande at Tornillo Branch near Fabens (d)	08367000	N/A	1924-38
Tornillo Drain at mouth near Tornillo (d)	08368000	N/A	1969-72
Tornillo Canal near Tornillo (d)	08368300	N/A	1969-72
Hudspeth Feeder Canal near Tornillo (d)	08368900	N/A	1969-72
Rio Grande at County Line Station near El Paso (d)	08369500	30,610	1938-60
Camo Rice Arroyo Tributary near Fort Hancock (e)	08370200	2.35	1966-74
Wild Horse Creek Tributary near Van Horn (e)	08370800	0.74	1966-73
Cibolo Creek near Presidio (d)	08373200	276	1971-77
Rio Grande above Presidio (lower Station) (d)	08373500	N/A	1901-13, 1924-54
Rio Grande at Langtry (d)	08377500	84,795	1900-14, 1920, 1924-60
Rio Grande Tributary near Langtry (e)	08377600	0.32	1966-74
Delaware River Tributary near Orla (e)	08407800	1.6	1966-74
Pecos River near Angeles (d)	08409500	20,540	1914-37
Salt Screwbean Draw near Orla (d)	08411500	464	1939-41, 1944-57
Pecos River near Mentone (d)	08414000	21,650	1922-26, 1969-73
Reeves County WID No. 2 Canal near Mentone (d)	08414500	N/A	1922-25, 1939-57, 1964-90
Ward County WID No. 3 Canal near Barstow (d)	08415000	N/A	1939-57, 1964-90
Pecos River above Barstow (d)	08416500	21,800	1916-21
Ward County Irrigation District No. 1 Canal near Barstow (d)	08418000	N/A	1922-25, 1939-57, 1964-90
Pecos River at Pecos (d)	08420500	22,100	1898-1907, 1914-15, 1922-26, 1939-55

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

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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

xxv

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,
			T	1954
East Fork Little Wichita River near Henrietta	07315200	178		
Little Wichita River near Ringgold	07315400	1,350	SC, pH, Cl	1959-62

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Red River near Gainesville	07316000	30,872	SC, Cl SC, T, pH, Cl	1944-46, 1953-63,
Red River at Denison Dam near Denison	07331600	39,720	SC, T	1967-89, 1944-89, 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, 1973-89
Sulphur River near Talco	07343200	1,365	SC, T, pH, Cl	1966-72, 1973-91
White Oak Creek near Talco	07343500	494	SC, T, pH, Cl	1966-72, 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, 1973-89
Little Cypress Creek near Jefferson	07346070	675	SC, T, pH, Cl	1968-72, 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, 1973-92
Lake Fork Creek near Quitman	08019000	585	SC, T, pH, Cl	1968-72, 1973-89
Big Sandy Creek near Big Sandy	08019500	231	SC, T, S	1985-86
Sabine River near Beckville	08022040	3,589	SC, T	1952-98
Sabine River below Toledo Bend near Burkeville	08026000	7,482	SC, T C	1969-86, 1969-75
Sabine River near Bon Wier	08028500	8,229	SC, T, C	1969-84
Sabine River near Ruliff	08030500	9,329	SC T	1945, 1947-98 1947-98
			pH, DO C	1968-75, 1970-76, 1968
Cow Bayou near Mauriceville	08031000	83.30	SC, T, pH, Cl	1952-54, 1954-56
Neches River near Neches	08032000	1,145	SC, T	1974-91
Neches River near Alto	08032500	1,945	SC, T	1950-69
Neches River near Diboll	08033000	2,724	SC, T	1970-81
Neches River near Rockland	08033500	3,636	SC	1941-42, 1946-47
Angelina River near Lufkin	08037000	1,600	SC, T, pH, Cl	1955-78, 1955-
Attoyac Bayou near Chireno	08038000	503	SC, T	1984-99
Sam Rayburn Reservoir near Jasper	08039300	3,449	SC, T	1964-84, 1993-99
Angelina River below Sam Rayburn Dam near Jasper	08039400	3,449	SC, T	1964-79
Angelina River 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, 1973-89
Big Sandy Creek near Bridgeport	08044000	333	SC, T, S	1968-77,
Lake Worth above Fort Worth	08045400	2,064	pH, Cl	
Clear Fork Trinity River at Fort Worth	08047500	518	SC, pH, Cl T	1949-52, 1948-62

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
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 T S	1967-68, 1957-58, 1966-68, 1957-68
Clear Creek near Sanger	08051500	295	SC, T, S	1968-77
Little Elm Creek near Celina	08052650	46.70	SC T, S	1967-75, 1966-75
Little Elm Creek near Aubrey	08052700	75.50	SC T, S	1967-75, 1967-75
Elm Fork Trinity River near Lewisville	08053000	1,673	SC T	1982-86, 1976-86
White Rock Creek at Greenville Avenue, Dallas	08057200	66.4	SC, pH, T, DO	1997-2000
Trinity River below Dallas	08057410	6,278	SC, T S Cl	1968-2000, 1972-75, 1998-2000 1970-81, 1998-99
Lavon Lake near Lavon	08060500	770	SC,T,CL	1969-74, 1975,82, 1995-99
Duck Creek near Garland	08061700	31.6	SC, pH, T, DO	1988-89
East Fork Trinity River above Seagoville	08061970	1,183	SC, T, pH, DO	1987-93
East Fork Trinity River at Seagoville	08061980	1,224	SC, pH, T, DO	1987-96
East Fork Trinity River near Crandall	08062000	1,256	SC, T pH, DO Cl	1968-1981, 1987-2000 1977, 1986-2000 1964-81, 1986-2000
Trinity River at Trinidad	08062700	8,538	SC, T pH, DO Cl S	1967-81 1986-2000 1967-81, 1986-2000 1966-94 1978-94
Cedar Creek near Mabank	08063000	733	SC, T, pH, Cl	1956-57
Pin Oak Creek near Hubbard	08063200	17.60	SC T S	1967-72, 1957-60, 1965-72, 1957-60, 1962-72
Richland Creek near Richland	08063500	734	SC, T, pH, Cl SC, T	1968-69, 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 SC, T S	1956-66, 1972, 1973-83
Trinity River near Oakwood	08065000	12,833	SC, T, pH, Cl SC, T, S	1948-54, 1977-81
Bedias Creek near Madisonville	08065800	321	SC, T S	1985-87, 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 T	1950-65, 1965

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Trinity River at Anahuac	08067300	17,912	SC, pH, Cl	1950-65
West Fork San Jacinto River near Conroe	08068000	828	SC, T	1962-90,
			DO	1979-81
Panther Branch near Spring	08068450	34.50	S	1975-76
West Fork San Jacinto River near Humble	08069500	1,741	SC, Cl	1945-46
East Fork San Jacinto River near New Caney	08070200	388	SC, T	1984-99
San Jacinto River near Huffman	08071500	2,800	SC	1945-54,
			T	1949-54
Buffalo Bayou at West Belt Drive at Houston	08073600	307	SC, T	1979-81
Buffalo Bayou at Houston	08074000	358	SC, pH, T, DO	1986-2000
			Cl	1969-81
Whiteoak Bayou at Main Street, Houston	08074598	127	SC, T, DO	1992-97
Buffalo Bayou at Main Street, Houston	08074600	469	SC, T, DO	1986-92
Buffalo Bayou at McKee Street, Houston	08074610	469	SC, T, DO	1992-2000
			pH	1998-2000
Sims Bayou at Houston	08075500	63.0	SC, T, DO	1994-97
Chocolate Bayou near Alvin	08078000	87.70	SC, T	1978-81
North Fork Double Mountain Fork Brazos River near Post	08079575	438	SC, T	1984-93
Double Mountain Fork Brazos River near Rotan	08080000	8,536	SC, T	1950-51
Double Mountain Fork Brazos River near Aspermont	08080500	8,796	SC, T, S	1949-51
			SC, T	1957-95
McDonald Creek near Post	08080540	103	SC, T	1964-78
Salt Fork Brazos River near Peacock	08081000	4,619	SC, T	1950-51,
				1965-86
Croton Creek near Jayton	08081200	290	SC, T	1961-80
Salt Croton Creek near Aspermont	08081500	64.30	SC	1969-77,
			T	1972-73
Salt Fork Brazos River near Aspermont	08082000	5,130	SC, T, pH, Cl	1949-51,
			SC, T	1957-82
Stinking Creek near Aspermont	08082100	88.80	T	1950,
			SC, T	1966-69
North Croton Creek near Knox City	08082180	251	SC, T	1966-86
Brazos River at Seymour	08082500	15,538	SC, T	1960-95
Medina River near Somerset	08082800	967	SC, T, Cl	1998-2000
Clear Fork Brazos River at Hawley	08083240	1,416	SC, T	1968-79,
				1982-84
Clear Fork Brazos River at Nugent	08084000	2,199	SC, T, pH, Cl	1948-53
California Creek near Stamford	08084800	478	SC, T	1963-79
Paint Creek near Haskell	08085000	914	SC, T	1950-5
Clear Fork Brazos River at Fort Griffin	08085500	3,988	SC, T, S	1950-51,
			SC, T	1968-79,
				1982-84
Hubbard Creek near Sedwick	08086015	128	SC, T	1964-66
Deep Creek at Moran	08086050	228	SC, T	1963-75
Hubbard Creek near Albany	08086100	454	SC, T	1962-75
Salt Prong Hubbard Creek at U.S. Highway 380 near Albany	08086120	61	SC, T	1964-68
North Fork Hubbard Creek near Albany	08086150	39.30	SC, T	1964-90
Salt Prong Hubbard Creek near Albany	08086200	115	SC, T	1962-63
Snailum Creek near Albany	08086210	22.90	SC, T	1964-66
Battle Creek near Moran	08086235	108	SC, T	1967-68
Pecan Creek near Eolian	08086260	26.40	SC, T	1967-75
Big Sandy Creek near Breckenridge	08086300	288	SC, T	1962-77
Hubbard Creek near Breckenridge	08086500	1,089	SC, T	1955-75
Clear Fork Brazos River at Eliasville	08087300	5,697	SC, T	1962-82
Brazos River near South Bend	08088000	22,673	SC, Cl	1942-48,
			SC, T	1978-81
Salt Creek at Olney	08088100	11.80	SC, T	1958-60

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
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 Lanepport	08105700	738	T	1977-82
Brazos River at State Highway 21 near Bryan	08108700	39,049	SC, T	1961-65
Brazos River near Bryan	08109000	39,515	SC, T	1966
Brazos River near College Station	08109500	39,599	SC, T	1961-84
Yegua Creek near Somerville	08110000	1,009	SC, T	1961-67
Navasota River above Groesbeck	08110325	239	SC, T	1968-89
Navasota River near Groesbeck	08110400	311	SC, T	1968-78
Navasota River near Easterly	08110500	968	SC	1942-43, 1947
Navasota River near Bryan	08111000	1,454	SC, T 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	1950-52, 1959-70, 1975-82, 1951-52
Deep Creek near Dunn	08120500	198	SC, T	1953-54
Morgan Creek near Westbrook	08121500	273	T	1954-55
Graze Creek near Westbrook	08122000	21.70	T	1954-55
Morgan Creek near Colorado City	08122500	313	T	1947-49
Lake Colorado City near Colorado City	08123000	340	T	1954-55
Beals Creek above Big Spring	08123650	9,319	SC, T	1973-78
Beals Creek near Big Spring	08123700	9,341	SC, T	1956-57
Beals Creek near Coahoma	08123720	9,383	SC, T	1983-88
Colorado River near Silver	08123900	14,997	SC, T	1957-68
Colorado River at Robert Lee	08124000	15,307	SC, T, pH, Cl S	1948-51, 1949-51

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Oak Creek near Blackwell	08126000	209	SC, T	1950
Colorado River at Ballinger	08126500	16,413	SC, T	1961-79, S 1978-79
Pecan Bayou at Brownwood	08143500	1,660	SC, T	1948-49
Pecan Bayou near Mullin	08143600	2,073	SC, T	1968-91
San Saba River near San Saba	08145500	N/A	SC, T	1962-65
San Saba River at San Saba	08146000	3,046	SC 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
East Bouldin Creek at South 1st Street, Austin	08157600	2.4	CI	1997-2000
Colorado River at Austin	08158000	39,009	SC, T	1948-91
Colorado River above Columbus	08160700	41,403	SC, T	1983-86
Colorado River at Columbus	08161000	41,640	SC T	1967-73, 1957-59, 1961-68 S 1957-73
Colorado River at Wharton	08162000	42,003	SC T	1945-92, 1946-48,
Lavaca River near Edna	08164000	817	SC, T	1978-81
Navidad River near Speaks	08164350	437	SC, T, pH, CI	1996-97
Navidad River near Ganado	08164500	826	SC, T	1960-80
Guadalupe River near Spring Branch	08167500	1,315	SC	1942-45
Guadalupe River at Sattler	08167800	1,436	T	1984-87
Blanco River at Wimberley	08171000	355	T	1977-78
Plum Creek near Luling	08173000	309	SC, T	1968-86
Sandies Creek near Westhoff	08175000	549	S CI	1966 1962-99
Guadalupe River at Victoria	08176500	5,198	SC T	1946-81, 1951-81
Coletto Creek Reservoir (Condenser No. 1) near Fannin	08177360	414	T	1980-94
Coletto Creek Reservoir (outflow) near Victoria	08177410	494	T	1980-94
Olmos Creek at Dresden Drive, San Antonio	08177700	21.2	SC, pH, T, DO S	1969-99 1973
San Antonio River at San Antonio	08178000	41.8	SC, T	1991-92, 1996-97
San Antonio River at Mitchell Street, San Antonio	08178050	42.4	SC, pH, T, DO	1992-99
San Antonio River at Loop 410 at San Antonio	08178565	125	SC, pH, T, DO	1987-2000
Medina River near Macdona	08180700	885	SC, pH, T, DO	1998-2000
Medina River at La Coste	08180640	805	SC, pH, T, DO	1987-95
Medio Creek at Pearsall Rd. at San Antonio	08180750	47.9	SC, pH, T, DO	1987-95
Ingram Road Outfall at Leon Creek Tributary at San Antonio	08181410	0.02	SC, pH, T, DO	1994-2000
Leon Creek at Interstate Highway 35 at San Antonio	08181480	219	SC, pH, T, DO	1985-2000
Medina River at San Antonio	08181500	1,317	SC, pH, T, DO CI	1987-2000 1965-2000
San Antonio River near Falls City	08183500	2,113	SC, pH, T, DO	1987-96
Cibolo Creek near Falls City	08186000	827	SC, T	1969-91
Escondido Creek SWS #1 near Kenedy	08187000	3.29	S	1955-65
Guadalupe River at Tivoli	08188800	10,128	SC, T	1966-82
Mission River at Refugio	08189500	690	SC, T	1961-81
Nueces River at Cotulla	08194000	5,171	SC	1942

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
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 El Paso	08364000	29,267	SC, pH, T, DO	1930-2000
Rio Grande at Fort Quitman	08370500	31,944	SC, T	1975-78.
Rio Grande at Foster Ranch near Langtry	08377200	80,742	SC, T	1975-81
Pecos River below Red Bluff Dam near Orla	08410100	20,720	SC	1937-69,
			T	1953-69
Salt Draw near Orla	08411500	464	SC, T	1943-48
Pecos River near Mentone	08414000	21,650	SC	1939
Pecos River at Pecos	08420500	22,100	SC	1939-41
Toyah Creek near Pecos	08431000	1,024	SC	1940,
				1944
Salt Draw near Pecos	08431500	1,882	SC	1940,
				1944
Toyah Creek below Toyah Lake near Pecos	08434000	3,709	SC	1940-50,
			Cl	1940
Pecos River below Grand Falls	08441500	27,820	SC	1939-42,
				1947-56
Pecos River near Girvin	08446500	29,560	SC	1940-41,
				1947,
				1954-82
			T	1954-59,
				1964-82
Pecos River near Sheffield	08447000	31,600	SC	1940-41,
				1947
Pecos River near Langtry	08447410	35,179	SC, T	1971-76,
				1981-85
Devils River at Pafford Crossing near Comstock	08449400	3,961	SC, T	1978-85
Rio Grande at Laredo	08459000	132,578	SC	1975-86,
			T	1974-76
Rio Grande at Roma	08462500	166,464	SC	1942-43
Rio Grande at Fort Ringgold, Rio Grande City	08464700	174,362	SC, pH, T	1959-2000
Rio Grande near Los Ebanos	08466300	N/A	SC, pH, T	1977-2000
Rio Grande at Mission Pumping Plant	08468000	171,800	SC	1945-50
Rio Grande below Anzalduas Dam	08469200	176,112	SC, pH, T	1967-72,
				1959-2000
Rio Grande at Cameron Co. WID #2 near San Benito	08473800	N/A	SC	1942-43
Rio Grande at Los Fresnos Pumping Plant near Brownsville	08474130	N/A	SC	1945-46
Rio Grande near Brownsville	08475000	176,333	SC	1943-44,
			SC, T	1967-83
			S	1966-83

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WATER RESOURCES DATA—TEXAS, 2001

VOLUME 3

SAN JACINTO RIVER BASIN, BRAZOS RIVER BASIN, SAN BERNARD RIVER BASIN, AND INTERVENING COASTAL BASINS

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 3 contains records for water discharge at 83 gaging stations; stage only at 8 gaging stations; stage and contents at 32 lakes and reservoirs; and water quality at 27 gaging stations. Also included are data for 46 partial-record stations comprised of 21 flood-hydrograph, 22 low-flow, and 3 miscellaneous 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-01-3." 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 2001 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. Kretschmar, 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 Transportation; 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 above normal during water year 2001.

Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,481,000 acre-feet, increased from 67 percent at the end of September 2000 to 76 percent at the end of September 2001. Records from these reservoirs indicate that storage increased in 54, decreased in 20, and remained the same in 3.

The area for which water resources data are presented in volume 3 includes the San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening Coastal Basins. The area described in volume 3 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 3, streamflow averaged above normal during water year 2001. Streamflow for water year 2001 and for the period of record at six selected stations (fig. 1) for which data are included in volume 3 is presented in table 1.

At the four long-term hydrologic index stations in the State, monthly mean streamflow during water year 2001 averaged above normal. Monthly mean discharges for water year 2001 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 North Bosque River near Clifton had above normal streamflow during November, January, February and March, below normal streamflow during June and August, and normal streamflow for the remaining 6 months. The station North Concho River near Carlsbad had above normal streamflow for October and November, below normal streamflow for May, and normal streamflow for the remaining 9 months. Streamflow for the station Guadalupe River near Spring Branch was above normal for November through April and September, and normal for the remaining 5 months. The station Neches River near Rockland was above normal during November through March, June, and September and normal for the remaining 5 months of water year 2001.

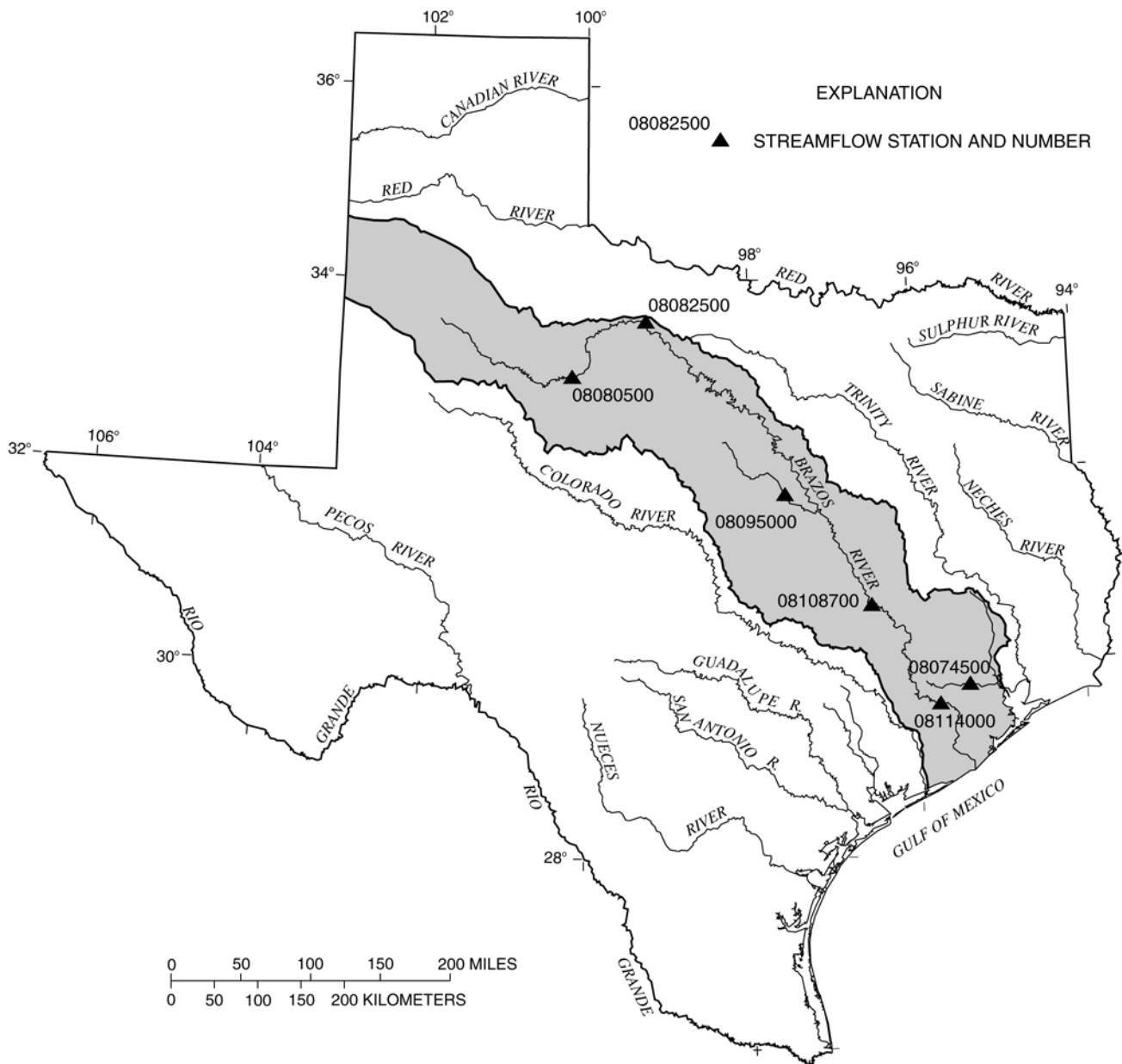
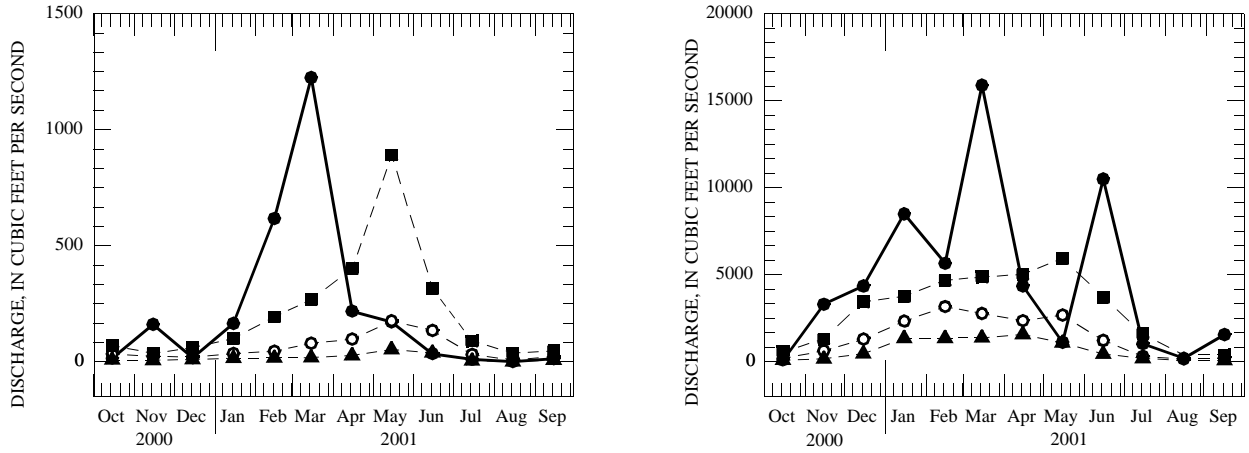


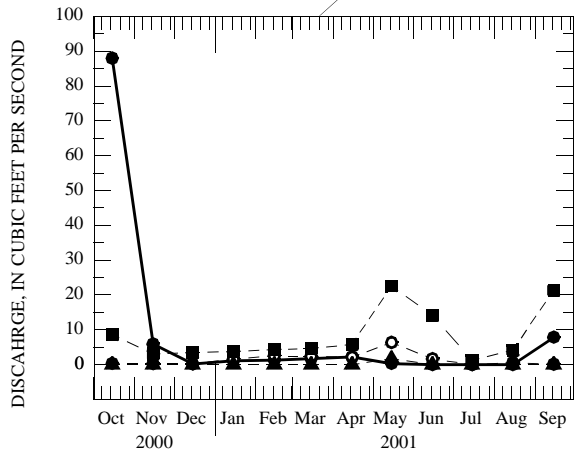
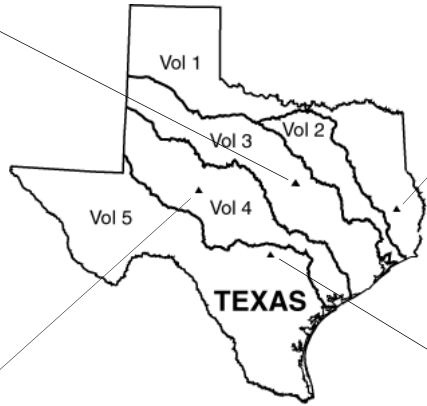
Figure 1. Area of Texas covered by volume 3 (shaded) and location of selected streamflow stations in volume 3.

WATER RESOURCES DATA—TEXAS, 2001

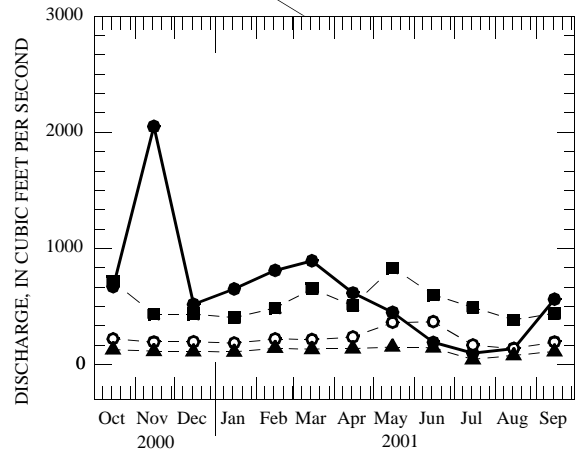


08095000 NORTH BOSQUE RIVER NEAR CLIFTON

08033500 NECHES RIVER NEAR ROCKLAND



08134000 NORTH CONCHO RIVER NEAR CARLSBAD



08167500 GUADALUPE RIVER NEAR SPRING BRANCH

EXPLANATION

- MONTHLY MEAN DISCHARGE FOR 2001 WATER YEAR
- MEDIAN OF MONTHLY MEAN DISCHARGE FOR 1961-90 WATER YEARS
- ▲--- 25 PERCENT QUANTILE
- 75 PERCENT QUANTILE

Figure 2. Monthly mean discharges at four long-term hydrologic index stations during 2001 water year and median of the monthly mean discharges for 1961-90 water years.

Conservation storage in 21 selected reservoirs in this area of the State, with a total combined conservation capacity of 3,805,000 acre-feet, increased from 73 percent of capacity at the end of September 2000 to 82 percent at the end of September 2001. Records from these reservoirs indicate that storage increased in 18 reservoirs and decreased in 3 during the water year.

Water Quality

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

Table 1. Streamflow at six selected stations

Station no. and name	Discharge during 2001 water year (cubic feet per second)			Discharge during period of record (cubic feet per second)		
	Maximum instantaneous	Minimum daily mean	Mean	Maximum instantaneous	Minimum daily mean	Mean
<u>San Jacinto River Basin</u>						
08074500	Whiteoak Bayou at Houston, TX	28,100	29	251	28,100	0.20 105 (1936-2001)
<u>Brazos River Basin</u>						
08080500	Double Mountain Fork Brazos River nr Aspermont, TX	2,860	0	60.7	23,000	0 59.9 (1994-2001)
08082500	Brazos River at Seymour, TX	3,840	0	176	42,700	0 277 (1964-2001)
08095000	North Bosque River near Clifton, TX ^{1/}	16,500	0	220	200,000	0 236 (1968-2001)
08108700	Brazos River at State Hwy. 21 near Bryan, TX	38,000	171	6,595	78,600	125 4,894 (1993-2001)
08114000	Brazos River at Richmond, TX	46,700	382	9,662	119,000	55 7,549 (1941-2001)
^{1/} Hydrologic index station.						

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of 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 re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN program can be found at <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation-chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions

and subsequent impacts to the Nation's land and water resources. 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.

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

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

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

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 three NAWQA Programs operating in Texas; the Trinity NAWQA, the South Central Texas NAWQA, and the southern portion of the High Plains Ground-Water NAWQA.

Additional information about the NAWQA Programs are available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html
<http://tx.usgs.gov/trin>
<http://tx.usgs.gov/sctx>
<http://co.water.usgs.gov/nawqa/hpgw>

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 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain stage and streamflow data, stage and content data for lakes and reservoirs, and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geolog-

ical 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 indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

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

Records of Stage and Water Discharge

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

By contrast, partial records are obtained through discrete measurements and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Flood-hydrograph partial records,

“Crest-stage partial records,” or “Low-flow partial records.” Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow channel gain and loss studies, may be considered as partial records, but they are presented separately in this report. Instantaneous peak discharges are presented for all but the low-flow partial-record stations.

Data Collection and Computation

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

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

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

Instantaneous discharges are computed by applying each individual recorded stage (gage height) to the stage-discharge table. The daily mean discharge is computed as the mean of the instantaneous discharges. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the discharge is

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

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

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

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

Data Presentation

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

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

Station Manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

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

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

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

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

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

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

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

Data table of daily mean values

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

Statistics of monthly mean data

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

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line head-

ings 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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

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

On-Site Measurements and Sample Collection

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

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

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

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

other factors which must be evaluated by the collector. Information on the method used to collect the sample at National Stream Quality Accounting Network sites is given in the water-quality data tables under SAMPLING METHOD. Values for this code are given below:

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

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

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

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

Water Temperature

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

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

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge-weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

Laboratory Measurements

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

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

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

Remarks Codes

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

PRINTED OUTPUT	REMARK
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.
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).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.
M	Presence of material verified but not quantified.

Dissolved Trace-Element Concentrations

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

Change in National Trends Network Procedures

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

Water-Quality Control Data

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

Blank Samples

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

blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

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

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

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

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

Equipment blank – a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to field blank but normally done in the more controlled conditions of the office).

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

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

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

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

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

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

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

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to

ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this District are:

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

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

Split sample – a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

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

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

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

ACCESS TO USGS WATER DATA

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

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

DEFINITION OF TERMS

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

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

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

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

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

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

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

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

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

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

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

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

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

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

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to con-

sist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

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

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

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

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

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

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

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

Bottom material See "Bed material".

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

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example,

length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

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

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

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

Cfs-day (See “Cubic foot per second-day”)

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

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

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

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

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also “Aquifer”)

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

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

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

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

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term “second-feet” sometimes is used synonymously with “cubic feet per second” but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, $[(\text{ft}^3/\text{s})/\text{d}]$) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(\text{ft}^3/\text{s})/\text{mi}^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also “Annual runoff”)

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also “Daily mean suspended-sediment concentration,” “Sediment,” and “Suspended-sediment concentration”)

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

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

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

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal

datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

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

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

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

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

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

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

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

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

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth’s surface that contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

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

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

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus fecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also “Bacteria”)

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

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

tions are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

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

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

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

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

Fecal streptococcal bacteria are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

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

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

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is

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

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

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

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

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

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

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

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

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

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

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

Horizontal datum (See "Datum")

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

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

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

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

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

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

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

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

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

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

Microsiemens per centimeter (US/CM, $\mu\text{S/cm}$) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the

International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

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

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

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

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See "North American Vertical Datum of 1988")

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

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

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelo-

metric methods that depend on passing specific light of a specific wavelength through the sample.

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

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

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

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. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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

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

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

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube,

Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

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

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

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

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

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

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

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, proto-

zoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

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

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

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. (See also “Plankton”)

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

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

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

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

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

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [$\text{mg C}/(\text{m}^2/\text{time})$] for

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

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

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

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

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms “return period” and “recurrence interval” do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most

of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

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

Return period (See “Recurrence interval”)

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

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

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

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

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

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

Stage (See “Gage height”)

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

Streamflow is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

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

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

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

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which 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 operationally defined as the material retained on a 0.45-micrometer filter.

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

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also “Sediment”)

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

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

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

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

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

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also “Percent Shading”)

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

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

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are char-

acterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

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

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

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

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

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

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

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

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

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the “REMARKS” column of the Annual Data Report.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Vertical datum (See “Datum”)

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by

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

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the “2001 water year.”

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

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

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

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

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

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

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.
- 3-B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, Chapter B8. 2001. 29 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.

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- 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. Schaffranek, 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-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI Book 9, Chapter A5. 1999. 156 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. Various 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 and 1999. Various paginated.
- 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.

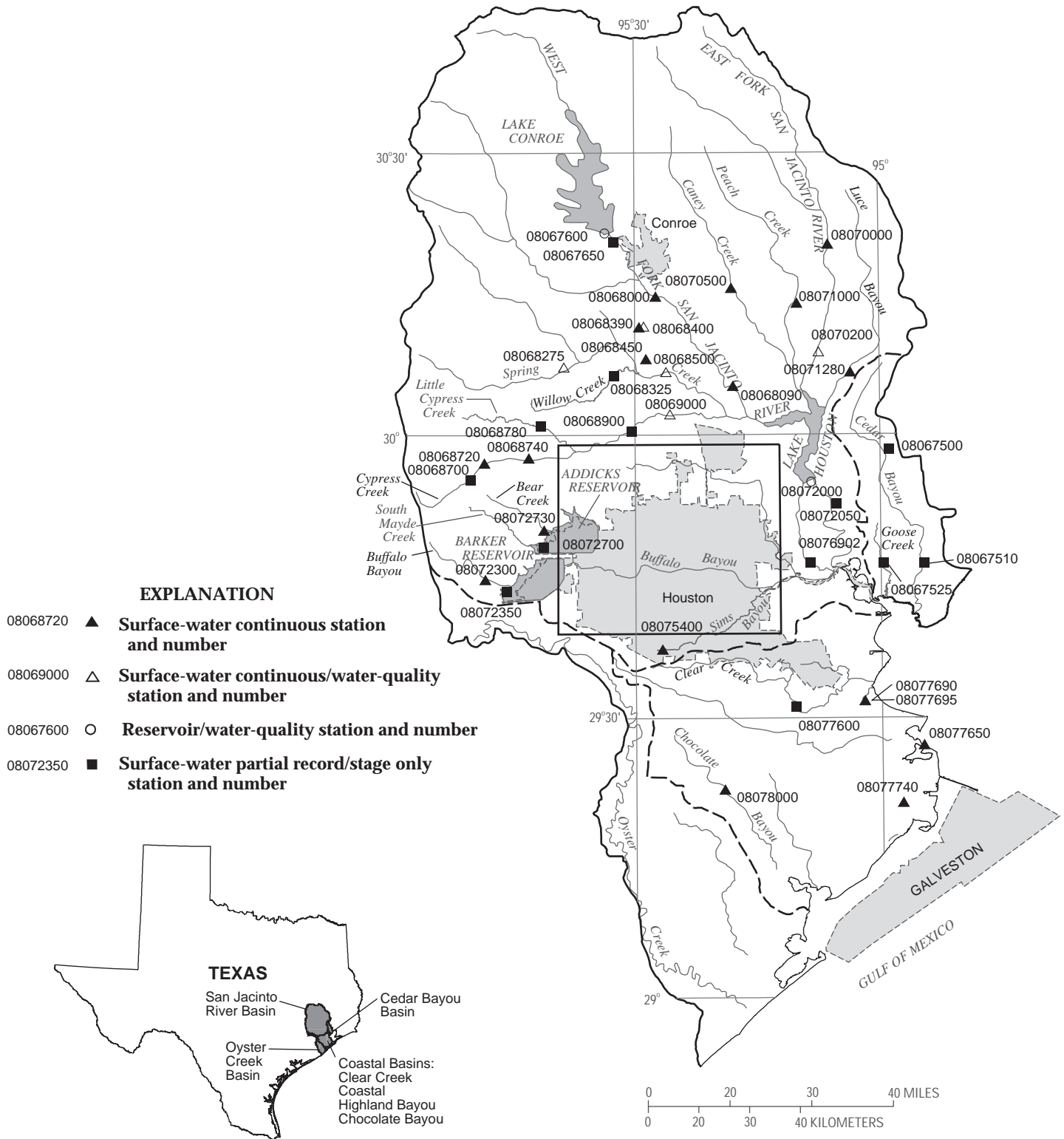
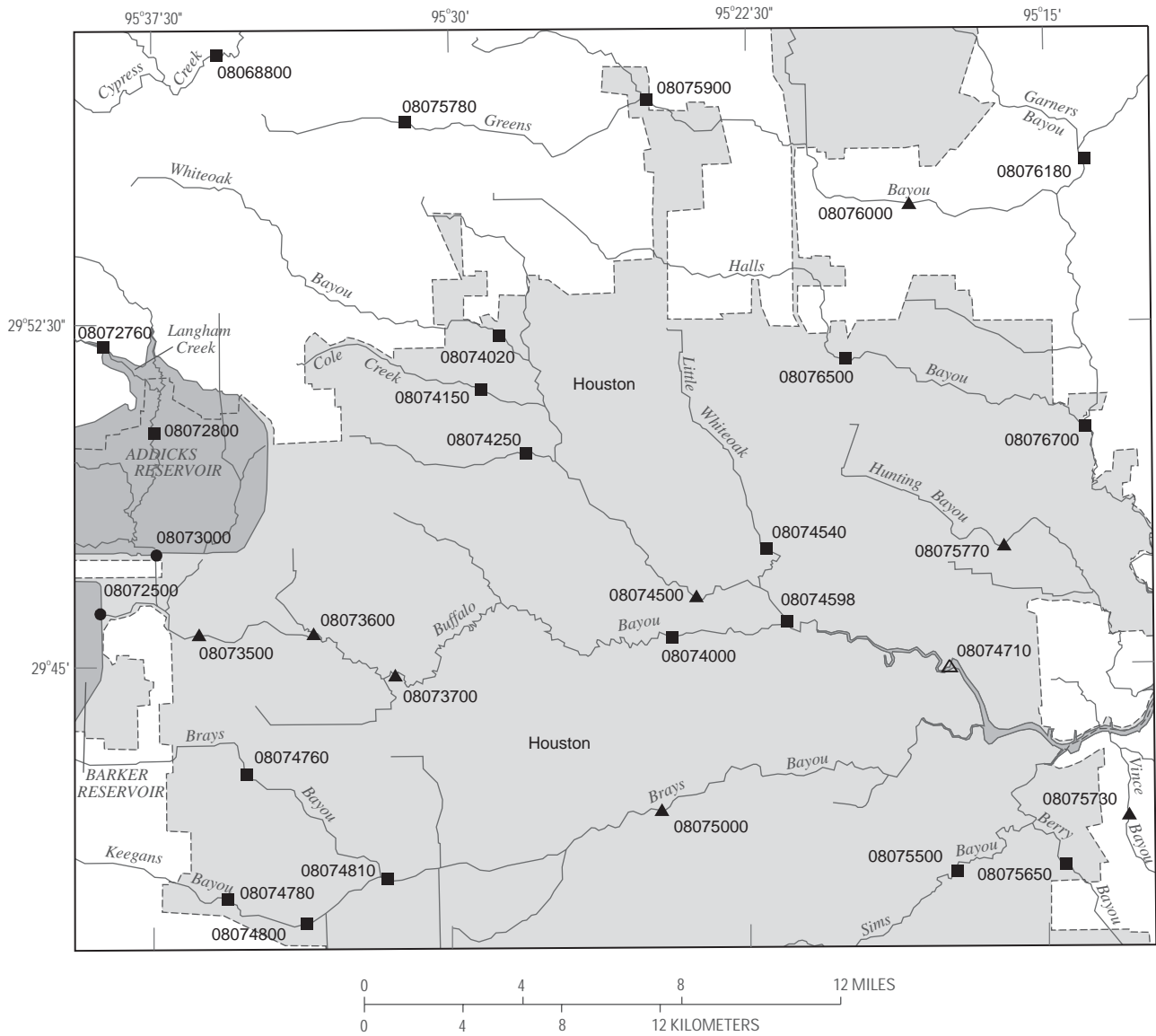


Figure 3.--Map showing location of gaging stations in the San Jacinto and Coastal River Basins



EXPLANATION

- 08073500 ▲ **Surface-water continuous station and number**
- 08074710 △ **Surface-water continuous/water-quality station and number**
- 08073000 ● **Reservoir station and number**
- 08074780 ■ **Surface-water partial record/stage only station and number**

Figure 4.--Map showing location of gaging stations in the Houston inset of the San Jacinto River Basin

08067500	Cedar Bayou near Crosby, TX	36
08067510	Cedar Bayou near Baytown, TX	456
08067525	Goose Creek at Baytown, TX	456
08067600	Lake Conroe near Conroe, TX	38
08067650	West Fork San Jacinto River below Lake Conroe near Conroe, TX	46
08068000	West Fork San Jacinto River near Conroe, TX	48
08068090	West Fork San Jacinto River above Lake Houston near Porter, TX	50
08068275	Spring Creek near Tomball, TX	52
08068325	Willow Creek near Tomball, TX	456
08068390	Bear Branch at Research Forest Blvd., The Woodlands, TX	62
08068400	Panther Branch at Gosling Road, The Woodlands, TX	64
08068450	Panther Branch near Spring, TX	74
08068500	Spring Creek near Spring, TX	76
08068700	Cypress Creek at Sharp Road near Hockley, Tx	456
08068720	Cypress Creek at Katy-Hockley Road near Hockley, TX	86
08068740	Cypress Creek at House and Hahl Road near Cypress, TX	88
08068780	Little Cypress Creek near Cypress, TX	90
08068800	Cypress Creek at Grant Road near Cypress, TX	92
08068900	Cypress Creek at Steubner-Airline Road near Westfield, TX	94
08069000	Cypress Creek near Westfield, TX	96
08070000	East Fork San Jacinto River near Cleveland, TX	100
08070200	East Fork San Jacinto River near New Caney, TX	102
08070500	Caney Creek near Splendora, TX	106
08071000	Peach Creek at Splendora, TX	108
08071280	Luce Bayou above Lake Houston near Huffman, TX	110
08072000	Lake Houston near Sheldon, TX	112
08072050	San Jacinto River near Sheldon, TX	124
08072300	Buffalo Bayou near Katy, TX	126
08072350	Buffalo Bayou near Fulshear, TX	456
08072500	Barker Reservoir near Addicks, TX	128
08072700	South Mayde Creek near Addicks, TX	456
08072730	Bear Creek near Barker, TX	130
08072760	Langham Creek at West Little York Road near Addicks, TX	132
08072800	Langham Creek near Addicks, TX	456
08073000	Addicks Reservoir near Addicks, TX	134
08073500	Buffalo Bayou near Addicks, TX	136
08073600	Buffalo Bayou at West Belt Drive, Houston, TX	138
08073700	Buffalo Bayou at Piney Point, TX	140
08074000	Buffalo Bayou at Houston, TX	142
08074020	Whiteoak Bayou at Alabonson Road at Houston, TX	456
08074150	Cole Creek at Deihl Road, Houston, TX	144
08074250	Brickhouse Gulley at Costa Rica Street, Houston, TX	146
08074500	Whiteoak Bayou at Houston, TX	148
08074540	Little Whiteoak Bayou at Trimble Street at Houston, TX	456
08074598	Whiteoak Bayou at Main Street, Houston, TX	150
08074710	Buffalo Bayou at Turning Basin, Houston, TX	152
08074760	Brays Bayou at Alief, TX	456
08074780	Keegans Bayou at Keegan Road near Houston, TX	456
08074800	Keegans Bayou at Roark Road near Houston, TX	162
08074810	Brays Bayou at Gessner Drive, Houston, TX	457

08075000	Brays Bayou at Houston, TX	164
08075400	Sims Bayou at Hiram Clarke Street, Houston, TX	166
08075500	Sims Bayou at Houston, TX	168
08075650	Berry Bayou at Forest Oaks Street, Houston, TX	170
08075730	Vince Bayou at Pasadena, TX	172
08075770	Hunting Bayou at Interstate Highway 610, Houston, TX	174
08075780	Greens Bayou at Cutten Road near Houston, TX	457
08075900	Greens Bayou at U.S. Highway 75 near Houston, TX	176
08076000	Greens Bayou near Houston, TX	178
08076180	Garners Bayou near Humble, TX	180
08076500	Halls Bayou at Houston, TX	182
08076700	Greens Bayou at Ley Road, Houston, TX	184
08076902	Carpenters Bayou at Interstate Highway 10 near Channelview, TX	457
08077600	Clear Creek near Friendswood, TX	186
08077650	Moses Lake-Galveston Bay near Texas City, TX	188
08077690	Highland Bayou Diversion Channel near Hitchcock, TX	190
08077695	Highland Bayou near Hitchcock, TX	192
08077740	LaMarque Levee Pump Station near LaMarque, TX	194
08078000	Chocolate Bayou near Alvin, TX	198

CEDAR BAYOU BASIN

08067500 Cedar Bayou near Crosby, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°58'20", long 94°59'10", Liberty County, Hydrologic Unit 12040203, on right bank at downstream side of bridge on U.S. Highway 90 and 6.6 mi northeast of Crosby.

DRAINAGE AREA.--64.9 mi².

PERIOD OF RECORD.--Mar. to Aug. 1946, Mar. 1963 to Feb. 1964, May to Aug. 1971 (discharge measurements only), Oct. 1971 to Sept. 1991 (daily mean discharge), Oct. 1991 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: May 1971 to Sept. 1979. Biochemical data: May 1971 to Sept. 1979. Pesticide data: May 1971 to Sept. 1979.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 31.31 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. Stage-discharge relation is affected by seasonal vegetation during most years. No known regulation. Low flow is sustained by drainage from irrigated lands. There are diversions upstream from station for irrigation.

AVERAGE DISCHARGE.--20 years (water years 1972-91), 78.7 ft³/s (57,020 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,800 ft³/s, Oct. 18, 1994, gage height, 28.33 ft; no flow occasionally during pumping season of some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	0830	1,560	18.27	Sept. 1	2330	1,520	18.11
June 9	1900	1,900	19.49				

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SAN JACINTO RIVER BASIN

08067600 Lake Conroe near Conroe, TX

LOCATION.--Lat 30°21'30", long 95°33'39", Montgomery County, Hydrologic Unit 12040101, at service outlet tower at Conroe Dam on West Fork San Jacinto River, 140 ft upstream from centerline of dam, and 7.4 mi west of Conroe.

DRAINAGE AREA.--445 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Jan. 1973 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 dam 11,300 ft long, including a controlled spillway. The dam was completed Sept. 1, 1972, and deliberate impoundment began Jan. 9, 1973. The dam is owned by the San Jacinto River Authority, the city of Houston, and the Texas Water Development Board. Water is used for municipal and industrial purposes in the Houston metropolitan area. A small diversion is also made for cooling purposes at the Gulf State Utilities generating plant on Lewis Creek Reservoir near Conroe. A spillway with five 40- x 30-foot tainter gates is located near the center of dam. Low-flow releases are made through a separate multi-gated inlet tower. The tower has three gated openings and one uncontrolled opening. It is connected to a stilling basin and a concrete weir by a 14 ft diameter conduit through the dam. Conservation pool storage is 416,228 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	212.0
Design flood.....	205.5
Top of tainter gates.....	202.5
Top of conservation pool (uncontrolled tower outlet).....	201.0
Crest of spillway (sill of tainter gates).....	173.0
Lowest gated outlet (invert).....	144.5

COOPERATION.--The capacity table, furnished by the Texas Water Development Board dated July 19, 1996, is based on a survey of Apr. 1996.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 534,900 acre-ft, Oct. 17, 1994, elevation, 205.61 ft; minimum since normal operating level was reached, 336,900 acre-ft, Jan. 11, 1989, elevation, 196.17 ft.

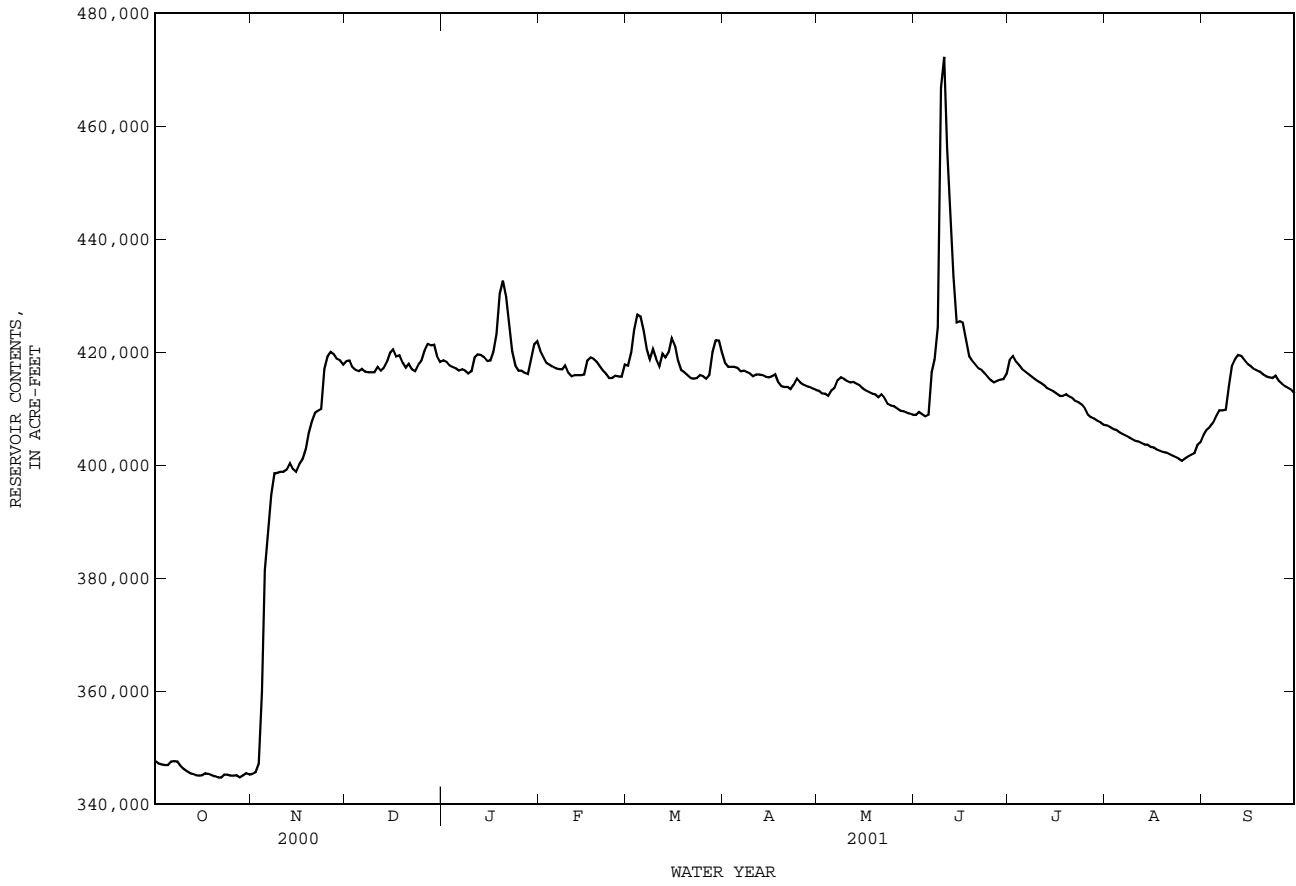
EXTREMES FOR CURRENT YEAR.--Maximum contents, 478,100 acre-ft, June 9, elevation, 203.81 ft; minimum contents, 344,200 acre-ft, Oct. 28, elevation, 197.10 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347600	345300	418400	418500	420200	417600	418100	413100	408900	418600	407000	405300
2	347200	345600	418500	418200	419100	419900	417400	412700	409400	419300	406700	406300
3	347000	347100	417300	417600	418000	423900	417400	412600	409000	418300	406400	406800
4	346900	359800	416800	417300	417700	426600	417400	412200	408600	417700	406200	407500
5	346900	381400	416600	417100	417400	426300	417200	413200	408900	417000	405800	408700
6	347500	388300	417000	416700	417100	423700	416600	413600	416400	416500	405500	409700
7	347600	394700	416500	416900	417000	420400	416700	415000	418700	416100	405200	409700
8	347500	398500	416400	416700	416900	418700	416400	415500	424400	415600	404900	409800
9	346800	398600	416400	416200	417600	420500	416200	415200	466800	415200	404600	414100
10	346200	398800	416400	416600	416300	418800	415700	414800	472200	414800	404300	417500
11	345800	398800	417300	419100	415700	417500	416000	414600	456200	414500	404200	418700
12	345500	399200	416700	419600	415900	419700	416000	414700	445000	414100	403900	419500
13	345300	400300	417200	419500	415900	419000	415900	414400	433300	413600	403600	419300
14	345100	399300	418300	419100	415900	419900	415600	414100	425200	413300	403600	418500
15	345000	398800	419900	418400	416000	422500	415500	413600	425400	413000	403200	417900
16	345100	400100	420500	418500	418500	421100	415700	413200	425200	412600	403100	417500
17	345400	401000	419200	420000	419000	418500	416000	412900	422200	412200	402700	417000
18	345300	402800	419400	423200	418800	416800	414700	412600	419300	412200	402500	416700
19	345100	405600	418100	430300	418300	416400	414000	412500	418400	412500	402300	416500
20	344900	407700	417200	432600	417500	415900	413800	412000	417700	412100	402200	416000
21	344700	409200	417900	429800	416700	415400	413800	412500	417100	411800	401900	415700
22	344700	409600	416900	425400	416200	415300	413400	411800	416800	411300	401600	415500
23	345200	409900	416600	420100	415400	415400	414200	410800	416200	411100	401400	415400
24	345200	417000	417700	417600	415400	415900	415300	410500	415500	410700	401100	415800
25	345000	419200	418400	416700	415800	415700	414600	410400	415000	410000	400700	414900
26	345000	420000	420200	416700	415700	415300	414200	410000	414600	408900	401100	414400
27	345100	419600	421400	416300	415600	415900	414000	409600	414900	408400	401500	413900
28	344700	418800	421200	416100	417800	420000	413800	409500	415100	408200	401800	413600
29	345000	418500	421300	418800	---	422100	413500	409300	415200	407800	402100	413300
30	345400	417800	419300	421400	---	422000	413300	409100	416100	407500	403600	412700
31	345200	---	418200	421900	---	420000	---	408900	---	407100	404100	---
MAX	347600	420000	421400	432600	420200	426600	418100	415500	472200	419300	407000	419500
MIN	344700	345300	416400	416100	415400	415300	413300	408900	408600	407100	400700	405300
(+)	197.16	201.08	201.10	201.28	201.08	201.19	200.85	200.63	200.99	200.53	200.38	200.82
(@)	-2500	+72600	+400	+3700	-4100	+2200	-6700	-4400	+7200	-9000	-3000	+8600
CAL YR 2000	MAX 421400	MIN 344700	(@) +42600									
WTR YR 2001	MAX 472200	MIN 344700	(@) +65000									

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

08067600 Lake Conroe near Conroe, TX--Continued



SAN JACINTO RIVER BASIN

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Sept. 1973 to current year.

BIOCHEMICAL DATA: Sept. 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302127095335501 -- Lk Conroe 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 FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300) (00301)	OXYGEN, DIS- SOLVED TOTAL (MG/L AS CACO3) (00900) (00904)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00915)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00915)	CALCIUM DIS- SOLVED (MG/L AS CA) (00925)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00930)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
FEB													
26...	1104	416000	1.00	220	8.5	15.5	11.0	109	69.9	3.9	24.7	2.01	12.1
26...	1106	--	10.0	220	8.4	15.0	10.8	106	--	--	--	--	--
26...	1108	--	20.0	220	7.7	14.0	10.3	98.8	--	--	--	--	--
26...	1110	--	30.0	220	7.6	13.5	10.2	96.7	--	--	--	--	--
26...	1112	--	40.0	220	7.5	13.5	10.0	94.9	--	--	--	--	--
26...	1114	--	53.8	220	7.4	13.5	9.9	93.9	69.6	8.6	24.5	2.06	12.3
APR													
26...	1030	414000	1.00	200	8.2	22.0	9.1	103	68.3	7	24.0	1.99	11.4
26...	1032	--	10.0	200	7.8	21.5	8.0	89.6	--	--	--	--	--
26...	1034	--	20.0	200	7.5	21.0	7.0	77.6	--	--	--	--	--
26...	1036	--	30.0	205	7.4	20.5	6.7	73.6	--	--	--	--	--
26...	1038	--	40.0	205	7.2	20.0	5.1	55.5	--	--	--	--	--
26...	1040	--	51.0	210	7.0	19.0	1.8	19.2	69.4	3	24.4	2.03	11.5
AUG													
01...	1038	408000	1.00	190	8.9	31.5	7.7	104	65.0	4	22.9	1.90	10.6
01...	1040	--	10.0	190	8.3	30.0	6.1	80.5	--	--	--	--	--
01...	1042	--	20.0	190	7.6	29.5	3.8	49.7	--	--	--	--	--
01...	1044	--	30.0	205	7.4	28.5	.5	6.4	--	--	--	--	--
01...	1046	--	40.0	210	7.0	26.0	.6	7.4	--	--	--	--	--
01...	1048	--	50.0	235	7.0	24.0	.6	7.1	69.9	--	24.7	2.02	10.3

302127095335501 -- Lk Conroe Site AC

DATE	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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, 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)
FEB													
26...	.629	26.3	2.88	--	66	6.7	18.4	E.1	4.7	111	E.003	.061	<.041
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	E.003	.067	.064
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	.643	26.7	3.07	--	61	6.8	20.0	E.1	5.8	112	E.003	.073	.144
APR													
26...	.603	25.8	2.78	61	--	6.8	18.0	E.1	1.3	103	.009	E.027	E.025
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	.014	E.032	.079
26...	--	--	--	--	--	--	--	--	--	--	.012	E.033	.123
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	.601	25.6	2.79	66	--	6.6	18.0	E.1	3.4	109	.018	E.035	.073
AUG													
01...	.574	25.1	3.17	61	--	4.8	16.5	E.1	4.1	101	<.006	E.027	E.023
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	<.006	E.025	E.028
01...	--	--	--	--	--	--	--	--	--	--	<.006	E.028	.393
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	.536	23.2	3.35	88	--	2.2	16.2	E.1	7.8	128	<.006	E.029	2.21

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302127095335501 -- Lk Conroe Site AC

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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB							
26...	--	.45	<.060	<.018	--	--	--
26...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
26...	.416	.48	<.060	<.018	--	<10	26.1
26...	--	--	--	--	--	--	--
26...	.423	.57	<.060	<.018	--	--	--
APR							
26...	--	.46	<.060	<.018	--	10	E1.9
26...	--	--	--	--	--	--	--
26...	.383	.46	<.060	<.018	--	10	6.3
26...	.460	.58	<.060	<.018	--	10	188
26...	--	--	--	--	--	--	--
26...	.799	.87	E.038	E.016	--	30	620
AUG							
01...	--	.42	<.060	<.020	--	<10	3.5
01...	--	--	--	--	--	--	--
01...	--	.45	<.060	<.020	--	40	158
01...	.450	.84	<.060	<.020	--	240	1080
01...	--	--	--	--	--	--	--
01...	.445	2.7	.394	.371	1.14	1590	3430

302132095333701 -- Lk Conroe Site AL

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (PER- CENT ATION) (00301)
FEB							
26...	1045	1.00	225	8.4	16.5	10.4	105
26...	1047	10.0	225	8.1	16.0	10.1	101
26...	1049	20.0	220	7.7	14.0	9.9	95.1
26...	1051	28.0	220	7.7	14.0	9.9	95.1
26...	1140	1.00	220	8.4	15.5	10.8	107
26...	1142	10.0	220	7.6	14.0	10.2	98.0
26...	1144	20.0	220	7.6	14.0	10.2	98.0
26...	1146	30.0	220	7.6	13.5	10.1	95.9
26...	1148	40.0	220	7.5	13.5	10.0	95.0
26...	1150	56.0	220	7.4	13.0	9.9	93.0
APR							
26...	1115	1.00	200	8.3	22.5	9.3	106
26...	1117	10.0	200	8.1	21.5	8.8	98.7
26...	1119	20.0	200	7.5	21.0	6.7	74.4
26...	1121	30.0	205	7.4	20.5	6.4	70.4
26...	1123	40.0	205	7.2	20.0	4.8	52.3
26...	1125	50.0	215	7.0	18.0	.8	8.4
26...	1127	61.0	220	7.0	17.5	.8	8.3
AUG							
01...	1120	1.00	190	9.0	32.0	8.4	115
01...	1122	10.0	190	8.7	30.5	7.0	93.2
01...	1124	20.0	190	7.5	29.5	3.2	41.9
01...	1126	30.0	195	7.2	29.0	.5	6.5
01...	1128	40.0	210	7.1	26.0	.5	6.1
01...	1130	50.0	230	7.0	24.0	.5	5.9
01...	1132	60.0	260	6.9	23.0	.5	5.8

SAN JACINTO RIVER BASIN

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302245095365301 -- Lk Conroe 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)	OXYGEN, DIS- SOLVED DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
APR							
26...	1010	1.00	205	8.4	22.5	9.1	104
26...	1012	10.0	205	8.4	22.0	9.1	103
26...	1014	20.0	205	7.5	21.5	6.4	71.7
26...	1016	27.0	205	7.2	21.0	5.6	62.1
AUG							
01...	1015	1.00	190	9.0	31.5	8.2	111
01...	1017	10.0	190	8.9	30.5	7.2	95.8
01...	1019	20.0	210	7.4	29.5	2.3	30.1
01...	1021	28.0	210	7.1	28.5	.6	7.7

302323095341201 -- Lk Conroe 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 DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB							
26...	1200	1.00	220	8.4	15.0	10.8	106
26...	1202	10.0	220	7.9	14.0	10.4	99.7
26...	1204	20.0	220	7.8	14.0	10.3	98.8
26...	1206	30.0	220	7.6	14.0	10.2	97.8
26...	1208	40.0	220	7.6	14.0	10.2	97.8
26...	1210	51.0	220	7.5	13.5	10.2	96.7
APR							
26...	1140	1.00	200	8.1	22.0	8.7	98.5
26...	1142	10.0	200	7.8	21.5	8.2	92.0
26...	1144	20.0	200	7.5	21.0	6.9	76.6
26...	1146	30.0	205	7.4	20.5	6.5	71.5
26...	1148	40.0	205	7.4	20.5	6.3	69.3
26...	1150	55.5	210	7.0	19.0	1.2	12.8
AUG							
01...	1142	1.00	190	9.0	32.0	8.5	116
01...	1144	10.0	190	8.4	30.0	6.7	88.4
01...	1146	20.0	190	8.0	30.0	5.3	69.9
01...	1148	30.0	205	7.3	28.0	.5	6.4
01...	1150	40.0	210	7.0	25.5	.5	6.1
01...	1152	51.0	220	7.0	25.0	.5	6.0

302320095334001 -- Lk Conroe Site CL

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 DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB							
26...	1220	1.00	220	8.4	15.0	10.8	106
26...	1222	10.0	220	7.7	14.5	10.2	99.0
26...	1224	20.0	220	7.6	14.0	10.1	97.0
26...	1226	30.0	220	7.8	14.0	10.1	97.0
26...	1228	45.0	220	7.7	14.0	10.1	97.0
APR							
26...	1153	1.00	200	8.0	23.0	8.6	99.3
26...	1155	10.0	200	7.9	21.0	8.4	93.3
26...	1157	20.0	200	7.5	21.0	7.1	78.9
26...	1159	30.0	200	7.5	21.0	6.8	75.5
26...	1201	40.0	205	7.4	20.5	6.8	74.8
AUG							
01...	1205	1.00	190	9.0	32.5	8.4	116
01...	1207	10.0	190	8.3	30.0	6.1	80.5
01...	1209	20.0	190	7.7	29.5	4.4	57.6
01...	1211	30.0	210	7.3	28.0	.5	6.4
01...	1213	40.0	205	7.1	28.0	.5	6.4

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302448095374101 -- Lk Conroe Site DC

DATE	TIME	SAM-PLING DEPTH (FEET) (000003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
26...	1240	1.00	215	8.5	17.0	10.4	107
26...	1242	10.0	215	8.4	16.5	10.3	104
26...	1244	20.0	215	7.6	14.5	9.8	95.1
26...	1246	27.0	215	7.7	14.0	10.2	98.0
APR							
26...	1215	1.00	200	8.4	23.0	9.2	106
26...	1217	10.0	200	8.2	22.5	8.8	101
26...	1219	24.0	205	7.4	22.0	5.9	66.8
AUG							
01...	1228	1.00	190	9.4	32.5	8.9	123
01...	1230	10.0	190	9.4	31.0	7.9	106
01...	1232	20.0	190	7.7	30.0	3.0	39.6
01...	1234	27.0	195	7.6	30.0	3.0	39.6

302607095360901 -- Lk Conroe Site EC

DATE	TIME	SAM-PLING DEPTH (FEET) (000003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL AS (MG/L) (00900)	HARD-NESS NONCARB FLD. AS (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	SODIUM, AD-SORP-TION RATIO (00931)
FEB													
26...	1300	1.00	200	8.4	16.0	10.5	105	62.9	6.9	22.1	1.89	11.3	.618
26...	1304	10.0	200	8.4	16.0	10.5	105	--	--	--	--	--	--
26...	1306	20.0	200	7.9	15.0	10.2	100	--	--	--	--	--	--
26...	1308	30.0	215	7.6	14.0	10.0	96.0	--	--	--	--	--	--
26...	1310	40.0	215	7.6	14.0	10.0	96.0	68	7.1	24.0	1.99	12.0	.6
APR													
26...	1240	1.00	200	8.5	23.0	9.5	110	66.4	4	23.4	1.96	11.2	.599
26...	1242	10.0	200	8.4	22.0	9.0	102	--	--	--	--	--	--
26...	1244	20.0	200	7.7	21.0	7.5	83.3	--	--	--	--	--	--
26...	1246	30.0	200	7.4	20.5	6.3	69.3	--	--	--	--	--	--
26...	1248	41.0	210	7.0	20.0	2.3	25.0	68.8	3	24.2	2.01	11.4	.597
AUG													
01...	1300	1.00	190	9.2	32.5	8.9	123	64.8	5	22.8	1.91	10.6	.573
01...	1302	10.0	190	8.5	30.5	5.4	71.9	--	--	--	--	--	--
01...	1304	20.0	190	8.4	30.5	5.3	70.5	--	--	--	--	--	--
01...	1306	30.0	195	7.4	29.5	1.3	17.0	--	--	--	--	--	--
01...	1308	39.0	215	7.0	25.5	.4	4.9	65.9	--	23.2	1.95	11.0	.588

302607095360901 -- Lk Conroe Site EC

DATE	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKA-LINITY WAT DIS TOT IT (MG/L AS) (39086)	ALKA-LINITY WAT DIS FIX END (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)
FEB													
26...	27.0	2.64	--	56	7.1	17.0	E.1	4.4	99.9	<.006	<.047	<.041	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	27	3.11	--	61	6.8	18.2	E.1	--	103	<.006	.047	.077	.408
APR													
26...	25.9	2.72	62	--	6.6	18.2	E.1	1.4	103	<.006	<.047	<.041	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	.010	E.032	E.035	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	25.5	2.71	66	--	6.5	18.2	E.1	4.0	110	.019	E.042	.378	.503
AUG													
01...	25.1	3.24	60	--	4.8	16.5	E.1	4.8	101	<.006	E.026	<.040	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	<.006	E.027	<.040	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	25.4	3.33	80	--	2.2	16.0	E.1	6.4	117	<.006	E.027	1.40	.464

SAN JACINTO RIVER BASIN

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

302607095360901 -- Lk Conroe Site EC

DATE	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						
26...	.45	<.060	<.018	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	.48	<.060	<.018	--	--	--
APR						
26...	.43	<.060	<.018	--	M	E2.8
26...	--	--	--	--	--	--
26...	.47	<.060	<.018	--	M	61.4
26...	--	--	--	--	--	--
26...	.88	<.060	E.010	--	20	406
AUG						
01...	.43	<.060	<.020	--	<10	3.5
01...	--	--	--	--	--	--
01...	.43	<.060	<.020	--	140	354
01...	--	--	--	--	--	--
01...	1.9	.244	.236	.724	1090	1710

302714095372201 -- Lk Conroe Site FC

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)
FEB							
26...	1345	1.00	200	8.5	17.5	10.3	107
26...	1347	20.0	200	8.5	17.5	10.3	107
26...	1349	20.9	205	7.5	15.5	9.6	95.2
APR							
26...	1320	1.00	195	8.6	24.0	9.6	113
26...	1322	10.0	200	8.4	22.5	9.1	104
26...	1324	21.0	200	7.1	22.0	4.1	46.4
AUG							
01...	1335	1.00	190	9.3	33.5	9.4	132
01...	1337	10.0	190	9.1	31.5	7.9	107
01...	1339	20.0	190	7.7	30.5	2.9	38.6

303129095360501 -- Lk Conroe Site GC

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 SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
FEB													
26...	1432	1.00	185	7.3	17.5	9.3	96.2	55.7	9.7	19.3	1.85	11.0	.641
26...	1434	10.0	185	7.3	16.5	9.3	94.2	--	--	--	--	--	--
26...	1436	20.0	190	7.3	16.5	9.3	94.2	--	--	--	--	--	--
26...	1438	29.9	190	7.3	16.0	9.3	93.3	57.8	8.8	20.1	1.84	10.7	.611
APR													
26...	1400	1.00	190	7.9	23.5	7.8	90.9	63.3	9	22.1	2.00	11.1	.607
26...	1402	10.0	190	7.4	22.0	6.6	74.7	--	--	--	--	--	--
26...	1404	20.0	195	7.4	21.5	6.5	72.9	--	--	--	--	--	--
26...	1406	29.0	195	7.4	21.0	6.4	71.1	64.4	8	22.5	1.97	11.0	.596
AUG													
01...	1415	1.00	185	9.4	34.5	11.2	159	63.1	4	22.1	1.90	10.5	.573
01...	1417	10.0	185	8.7	31.5	6.2	83.9	--	--	--	--	--	--
01...	1419	20.0	185	7.6	31.0	3.7	49.7	--	--	--	--	--	--
01...	1421	27.0	185	7.7	31.0	4.0	53.7	63.1	7	22.0	1.96	10.7	.585

08067600 Lake Conroe near Conroe, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

303129095360501 -- Lk Conroe Site GC

DATE	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	ALKA- LINITY WAT DIS FIX END FIELD (MG/L AS CACO3 (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)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
FEB													
26...	28.7	2.94	--	46	9.2	17.9	<.2	8.8	98.9	<.006	.059	E.027	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	27.4	2.92	--	49	8.1	16.7	<.2	6.2	96.0	<.006	E.026	.044	.431
APR													
26...	26.6	2.75	54	--	6.9	17.1	E.1	2.7	97.2	<.006	<.047	<.041	--
26...	--	--	--	--	--	--	--	--	--	<.006	<.047	<.041	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	26.0	2.86	56	--	6.7	17.4	E.1	2.0	98.0	<.006	<.047	<.041	--
AUG													
01...	25.4	2.93	59	--	4.7	16.6	E.1	6.4	100	<.006	E.025	E.030	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	<.006	E.026	E.022	--
01...	25.8	2.98	56	--	4.8	16.6	E.1	8.8	102	<.006	E.025	E.025	--

303129095360501 -- Lk Conroe Site GC

DATE	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						
26...	.50	E.051	.030	.092	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
26...	.47	<.060	E.011	--	--	--
APR						
26...	.49	<.060	<.018	--	40	5.1
26...	.48	<.060	<.018	--	30	E3.2
26...	--	--	--	--	--	--
26...	.47	<.060	<.018	--	30	3.7
AUG						
01...	.50	<.060	<.020	--	<10	<3.0
01...	--	--	--	--	--	--
01...	.47	<.060	<.020	--	<10	16.2
01...	.45	<.060	<.020	--	<10	43.3

SAN JACINTO RIVER BASIN

08067650 West Fork San Jacinto River below Lake Conroe near Conroe, TX
(Partial-record station)

LOCATION.--Lat 30°20'31", long 95°32'34", Montgomery County, Hydrologic Unit 12040101, on right bank at downstream side of bridge on State Highway 105, 3.0 mi downstream from Lake Conroe Dam, and 5.9 mi west of Conroe.

DRAINAGE AREA.--451 mi².

PERIOD OF RECORD.--Aug. 1972 to Sept. 1989 (daily mean discharges for periods of outflow from Lake Conroe only), Oct. 1989 to Sept. 1993 (daily mean discharges 10 ft³/s or greater), Oct. 1993 to Sept. 1994 (daily mean discharges 100 ft³/s or greater), Oct. 1994 to Sept. 1997 (daily mean discharges 20 ft³/s or greater), Oct. 1997 to Sept. 2000 (daily mean discharges), Oct. 2000 to current to current year (daily mean discharges 10 ft³/s or greater).
Water-quality records.--Chemical data: Oct. 1972 to Sept. 1986, Oct. 1987 to Aug. 1989. Biochemical data: Oct. 1972 to Sept. 1986, Oct. 1987 to Aug. 1989. Pesticide data: Oct. 1972 to Sept. 1986, Oct. 1987 to Aug. 1989.

REVISED RECORDS.--WDR TX-96-2.

GAGE.--Water-stage recorder. Datum of gage is 116.06 ft above sea level. Satellite telemeter at station.

REMARKS.--Records poor. Since Jan. 9, 1973, at least 10% of contributing drainage area has been regulated. No known diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft³/s, Oct. 17, 1994, gage height, 42.68 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Nov. 1940 reached a stage of 41.94 ft, from information by the Texas Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,900 ft³/s, June 10, gage height, 36.36 ft; minimum discharge, 0.00 ft³/s, on several days, gage height, 13.50 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	103	153	1050	595	924	---	---	839	---	---
2	---	---	216	147	508	1140	351	---	---	1210	---	---
3	---	---	185	143	405	2660	183	---	---	709	---	---
4	---	14	143	142	215	2700	168	---	---	634	---	---
5	---	---	69	142	135	2660	171	---	---	268	---	---
6	---	15	71	142	132	2640	168	---	525	102	---	---
7	---	14	79	144	137	2110	167	74	462	94	---	---
8	---	12	---	152	136	1460	130	176	1840	92	---	---
9	---	12	---	131	450	1570	121	77	8190	48	---	104
10	---	---	---	97	284	1990	117	37	12700	---	---	233
11	---	---	19	481	28	998	47	---	10400	---	---	154
12	---	---	48	638	87	1650	83	---	7050	---	---	146
13	---	18	203	638	114	1640	99	---	6930	---	---	137
14	---	---	121	637	120	917	91	---	4560	---	---	139
15	---	---	256	347	121	1980	62	---	3330	---	---	140
16	---	---	654	513	408	2710	55	---	3050	---	---	140
17	---	---	129	676	577	2150	66	---	2970	---	---	134
18	---	17	321	1310	552	1040	34	---	1360	---	---	134
19	---	17	320	2080	585	219	---	---	349	---	---	135
20	---	---	95	3020	635	163	---	---	283	---	---	135
21	---	---	73	3000	645	83	---	---	215	---	---	133
22	---	---	113	3010	396	---	---	---	328	---	---	134
23	---	---	---	3010	126	---	---	---	123	---	---	131
24	---	430	202	852	130	19	252	---	121	---	---	135
25	---	496	585	435	130	273	56	---	120	---	---	71
26	---	469	742	80	91	16	---	---	69	---	---	---
27	---	460	1360	426	133	311	---	---	---	---	---	---
28	---	460	1310	122	550	1550	---	---	51	---	---	---
29	---	457	1200	642	---	1690	---	---	55	---	---	---
30	---	259	1060	964	---	1860	---	---	194	---	---	---
31	---	---	520	1170	---	1860	---	---	---	---	---	---

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SAN JACINTO RIVER BASIN

08068000 West Fork San Jacinto River near Conroe, TX

LOCATION.--Lat 30°14'40", long 95°27'25", Montgomery County, Hydrologic Unit 12040101, near center of bridge on downstream side of Interstate Highway 45 northbound feeder road, 300 ft upstream from Missouri Pacific Railroad Co. bridge, 3.5 mi downstream from Lake Creek, 4.2 mi south of Conroe, and at mile 79.

DRAINAGE AREA.--828 mi².

PERIOD OF RECORD.--May 1924 to Sept. 1927, July 1939 to current year.

Water-quality records.--Chemical data: Mar. 1959 to Sept. 1994. Biochemical data: Mar. 1959 to Sept. 1994. Pesticide data: May 1975 to June 1982. Sediment data: Feb. 1966 to Sept. 1967, Oct. 1974 to Sept. 1994. Specific conductance: Oct. 1961 to Sept. 1990. Water temperature: Oct. 1961 to Sept. 1990. Dissolved oxygen: Aug. 1979 to May 1981.

REVISED RECORDS.--WSP 1058: 1926. WSP 1732: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 95.03 ft above sea level. May 7, 1924, to Sept. 30, 1927, nonrecording gage at railroad bridge 300 ft downstream at datum 30.10 ft higher. July 13, 1939, to Sept. 30, 1963, water-stage recorder at datum 5.0 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Jan. 9, 1973, at least 10% of contributing drainage area has been regulated. There are no large diversions above station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-27, 1940-72), prior to regulation by Lake Conroe, 477 ft³/s (345,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-27, 1940-72).--Maximum discharge, 110,000 ft³/s Nov. 25, 1940 (gage height, 30.85 ft), present datum, from rating curve extended above 43,000 ft³/s on basis of velocity-area studies; no flow June 14, 1956, and Sept. 19 to Oct. 1, 1965, result of temporary dams. Maximum stage since at least Dec. 1913, that of Nov. 25, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec. 1913 reached a stage of 30.2 ft, present site and datum, from information by Missouri Pacific Railroad Co., discharge 101,000 ft³/s, from rating curve as explained above.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	209	460	2110	1070	1670	51	26	1100	39	119
2	15	28	279	329	972	1820	855	49	24	1420	40	98
3	15	69	259	280	677	3880	472	47	22	1060	37	63
4	16	156	221	246	397	4550	411	46	31	991	36	73
5	16	850	142	226	248	5500	378	65	32	655	33	153
6	17	4410	123	212	216	4720	353	64	1140	332	32	122
7	18	3230	127	207	199	3130	334	268	676	272	34	88
8	35	2180	100	207	189	1710	308	807	3090	245	33	61
9	22	2230	66	191	353	2410	280	395	21500	223	33	609
10	20	830	59	165	452	2520	268	267	18900	144	33	1130
11	19	365	58	796	136	2000	213	129	20000	118	30	1200
12	18	263	89	1190	132	2200	217	98	14100	108	29	950
13	17	236	155	1470	130	2720	214	82	8670	99	29	520
14	18	144	212	1320	153	1840	208	70	5600	94	30	313
15	17	97	241	834	159	3350	189	59	4030	84	29	230
16	18	127	1090	609	282	3450	171	54	3980	74	28	201
17	18	134	599	958	769	3180	197	50	4690	68	27	186
18	19	367	333	1660	1010	2010	186	46	4070	65	27	182
19	19	970	558	3310	979	817	133	44	1380	64	26	176
20	17	727	201	4630	785	484	106	41	720	60	26	167
21	17	941	128	6200	633	389	86	40	540	60	25	167
22	18	865	168	4720	511	261	73	45	590	55	23	164
23	37	359	107	3440	174	228	65	39	397	49	24	168
24	24	1910	114	1670	146	205	348	34	350	48	23	194
25	20	1490	758	812	137	366	187	33	315	46	22	202
26	19	1130	806	410	132	251	100	32	292	44	25	110
27	19	1210	1550	530	113	351	78	31	200	48	44	88
28	19	809	2020	389	989	2710	67	30	329	51	104	83
29	21	625	2010	1020	---	2720	58	29	753	52	87	61
30	25	511	2090	1640	---	2740	52	27	472	48	100	48
31	24	---	1160	2370	---	2690	---	26	---	43	88	---
TOTAL	612	27289	16032	42501	13183	66272	8277	3098	116919	7820	1196	7926
MEAN	19.7	910	517	1371	471	2138	276	99.9	3897	252	38.6	264
MAX	37	4410	2090	6200	2110	5500	1670	807	21500	1420	104	1200
MIN	15	26	58	165	113	205	52	26	22	43	22	48
AC-FT	1210	54130	31800	84300	26150	131500	16420	6140	231900	15510	2370	15720

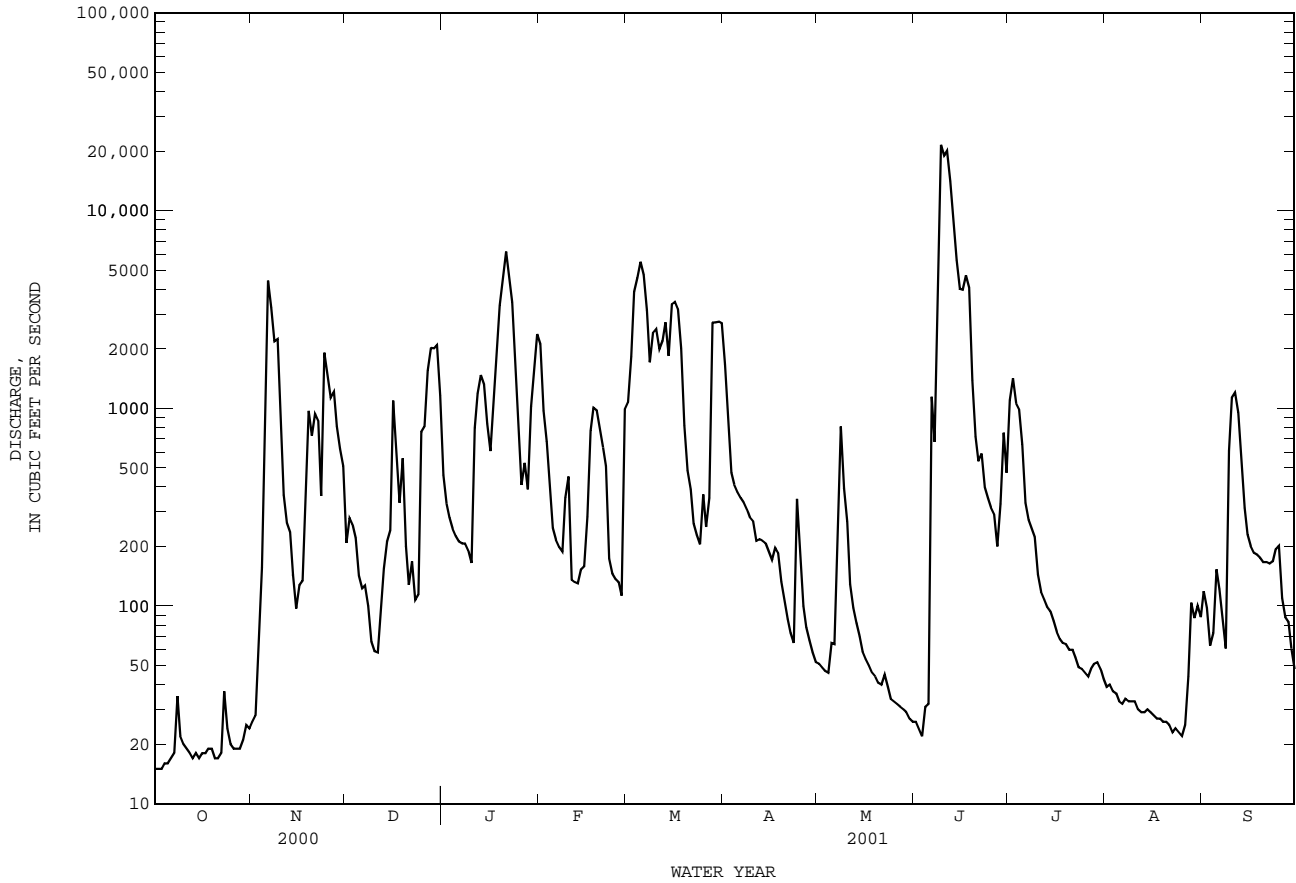
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001z, BY WATER YEAR (WY)

	529	603	648	926	868	695	697	664	716	118	74.6	229
MEAN	529	603	648	926	868	695	697	664	716	118	74.6	229
MAX	7836	5757	2064	3360	3258	2138	4185	4153	3897	392	368	1945
(WY)	1995	1999	1977	1998	1992	2001	1979	1983	2001	1989	1983	1979
MIN	18.7	25.7	31.4	33.0	30.8	31.3	34.5	37.6	26.1	19.0	14.7	20.0
(WY)	2000	1991	1981	2000	2000	2000	1996	1978	1996	1996	2000	2000

08068000 West Fork San Jacinto River near Conroe, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001z	
ANNUAL TOTAL	55679		311125		562	
ANNUAL MEAN	152		852		1444	
HIGHEST ANNUAL MEAN					1995	
LOWEST ANNUAL MEAN					39.3	
HIGHEST DAILY MEAN	4410	Nov 6	21500	Jun 9	97200	Oct 18 1994
LOWEST DAILY MEAN	12	Aug 30	15	Oct 1	8.9	Oct 3 1998
ANNUAL SEVEN-DAY MINIMUM	12	Sep 1	16	Oct 1	11	Aug 18 1981
MAXIMUM PEAK FLOW			24100	Jun 9	115000	Oct 18 1994
MAXIMUM PEAK STAGE			23.38	Jun 9	32.30	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	110400		617100		407000	
10 PERCENT EXCEEDS	285		2190		1470	
50 PERCENT EXCEEDS	30		189		91	
90 PERCENT EXCEEDS	15		25		24	

z Period of regulated streamflow.



SAN JACINTO RIVER BASIN

08068090 West Fork San Jacinto River above Lake Houston near Porter, TX

LOCATION.--Lat 30°05'09", long 95°17'59", Montgomery County, Hydrologic Unit 12040101, on left bank, 4.4 mi southwest of Porter, 5.0 mi upstream from Spring Creek and 6.2 mi northwest of Humble.

DRAINAGE AREA.--962 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, at site 1.7 mi downstream, water years 1968-72, 1974-75. Feb. to Mar. 1984 (discharge measurements only), May 1984 to current year.

Water-quality records.--Chemical data: Feb. 1984 to Sept. 1999. Biochemical data: Feb. 1984 to Sept. 1999. Pesticide data: Feb. 1984 to Sept. 1990.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 33 ft above sea level, from topographic map and levels. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in 1984, at least 10% of contributing drainage area has been regulated. There are no large diversions upstream from station. There is minor wastewater effluent being discharged by the city of Conroe and by other smaller communities into the river upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	30	396	706	2450	1670	2370	74	47	641	57	151
2	19	28	279	402	1420	2230	1110	68	45	1370	54	190
3	18	31	327	339	839	5800	626	66	42	1110	51	125
4	18	187	279	300	585	5330	463	65	43	870	49	90
5	20	240	221	275	389	5960	412	76	66	751	49	226
6	20	2820	164	257	316	5550	375	108	1510	381	51	174
7	20	3910	159	250	296	3850	343	151	1300	259	54	123
8	25	2100	152	241	289	2000	324	1020	1440	220	51	90
9	39	2300	111	239	294	3420	282	636	24400	196	52	374
10	32	1310	91	226	593	2940	258	364	20600	162	51	1290
11	27	493	80	875	340	2630	244	238	18000	116	49	1010
12	25	348	74	1200	169	3100	193	161	15400	104	47	963
13	22	371	120	1440	196	3820	214	148	10500	92	45	540
14	19	275	272	1510	218	2050	208	117	7380	89	44	328
15	21	180	224	1120	218	4660	201	96	5060	86	43	226
16	21	224	623	639	226	4110	179	83	5060	79	42	189
17	24	305	918	1170	628	3600	289	76	4700	75	41	170
18	35	288	416	1640	980	2640	224	70	5060	72	47	158
19	23	1210	530	3730	1130	1190	175	66	2280	71	42	158
20	20	962	390	4580	997	547	132	65	862	71	40	148
21	20	867	210	6680	798	421	116	61	574	69	40	146
22	22	1060	155	5900	709	298	104	59	479	67	39	271
23	31	642	180	3780	383	220	112	66	455	62	38	181
24	82	2530	113	2390	243	197	1340	60	315	58	40	253
25	47	2430	645	970	221	217	704	59	274	57	40	196
26	33	1280	838	632	214	332	323	60	247	56	43	175
27	28	1320	1150	405	169	238	197	56	211	64	45	100
28	25	997	1840	601	1410	3700	126	52	337	72	66	92
29	26	736	1960	1060	---	3960	101	51	521	66	125	81
30	28	633	2080	2080	---	3430	83	50	621	68	110	67
31	31	---	1480	2370	---	3220	---	49	---	62	142	---
TOTAL	840	30107	16477	48007	16720	83330	11828	4371	127829	7516	1687	8285
MEAN	27.1	1004	532	1549	597	2688	394	141	4261	242	54.4	276
MAX	82	3910	2080	6680	2450	5960	2370	1020	24400	1370	142	1290
MIN	18	28	74	226	169	197	83	49	42	56	38	67
AC-FT	1670	59720	32680	95220	33160	165300	23460	8670	253500	14910	3350	16430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001h, BY WATER YEAR (WY)

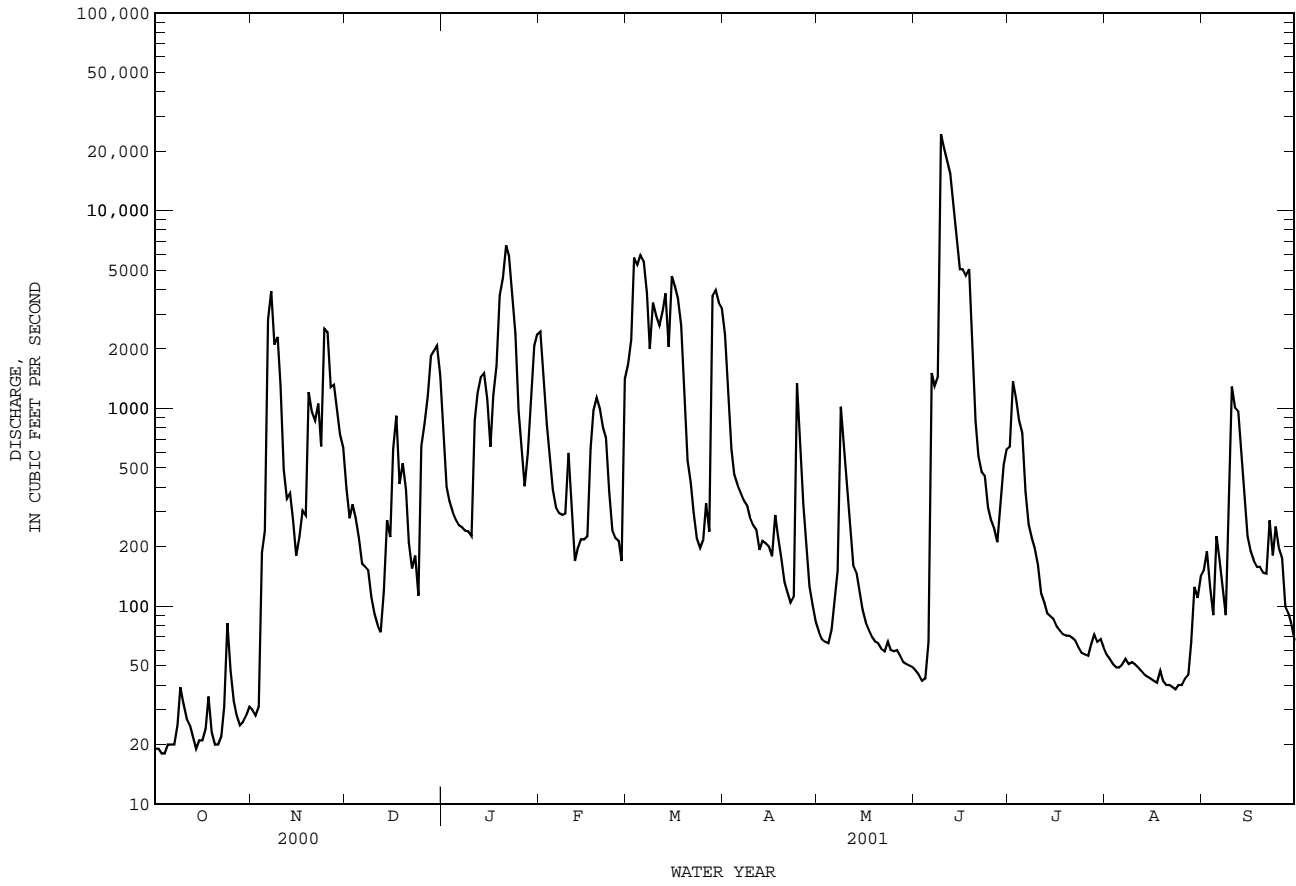
MEAN	931	885	841	1200	1051	1008	642	587	909	135	85.0	111
MAX	10910	8244	1881	3199	3763	2688	2229	2174	4261	536	223	323
(WY)	1995	1999	1992	1998	1992	2001	1991	1993	2001	1989	1995	1996
MIN	22.2	29.8	42.7	41.5	37.8	34.3	60.7	59.4	31.8	17.6	16.1	23.3
(WY)	1991	1991	1990	2000	2000	2000	2000	1988	1998	2000	2000	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1984 - 2001h

ANNUAL TOTAL	62614	356997										
ANNUAL MEAN	171	978								702		
HIGHEST ANNUAL MEAN										1694		1995
LOWEST ANNUAL MEAN										51.6		2000
HIGHEST DAILY MEAN	3910	Nov 7	24400	Jun 9	113000	Oct 19	1994					
LOWEST DAILY MEAN	12	Jul 28	18	Oct 3	12	Jul 28	2000					
ANNUAL SEVEN-DAY MINIMUM	12	Sep 1	19	Oct 1	12	Sep 1	2000					
MAXIMUM PEAK FLOW			33900	Jun 9	130000	Oct 18	1994					
MAXIMUM PEAK STAGE			34.43	Jun 9	40.10	Oct 18	1994					
ANNUAL RUNOFF (AC-FT)	124200		708100		508700							
10 PERCENT EXCEEDS	392		2480		1860							
50 PERCENT EXCEEDS	34		224		106							
90 PERCENT EXCEEDS	15		40		31							

h See PERIOD OF RECORD paragraph.

08068090 West Fork San Jacinto River above Lake Houston near Porter, TX--Continued



SAN JACINTO RIVER BASIN

08068275 Spring Creek near Tomball, TX

LOCATION.--Lat 30°07'11", long 95°38'45", Harris-Montgomery County line, Hydrologic Unit 12040102, near the left bank at downstream side of Highway 249, 2.0 mi northwest of Tomball.

DRAINAGE AREA.--186 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1999 to current.

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

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

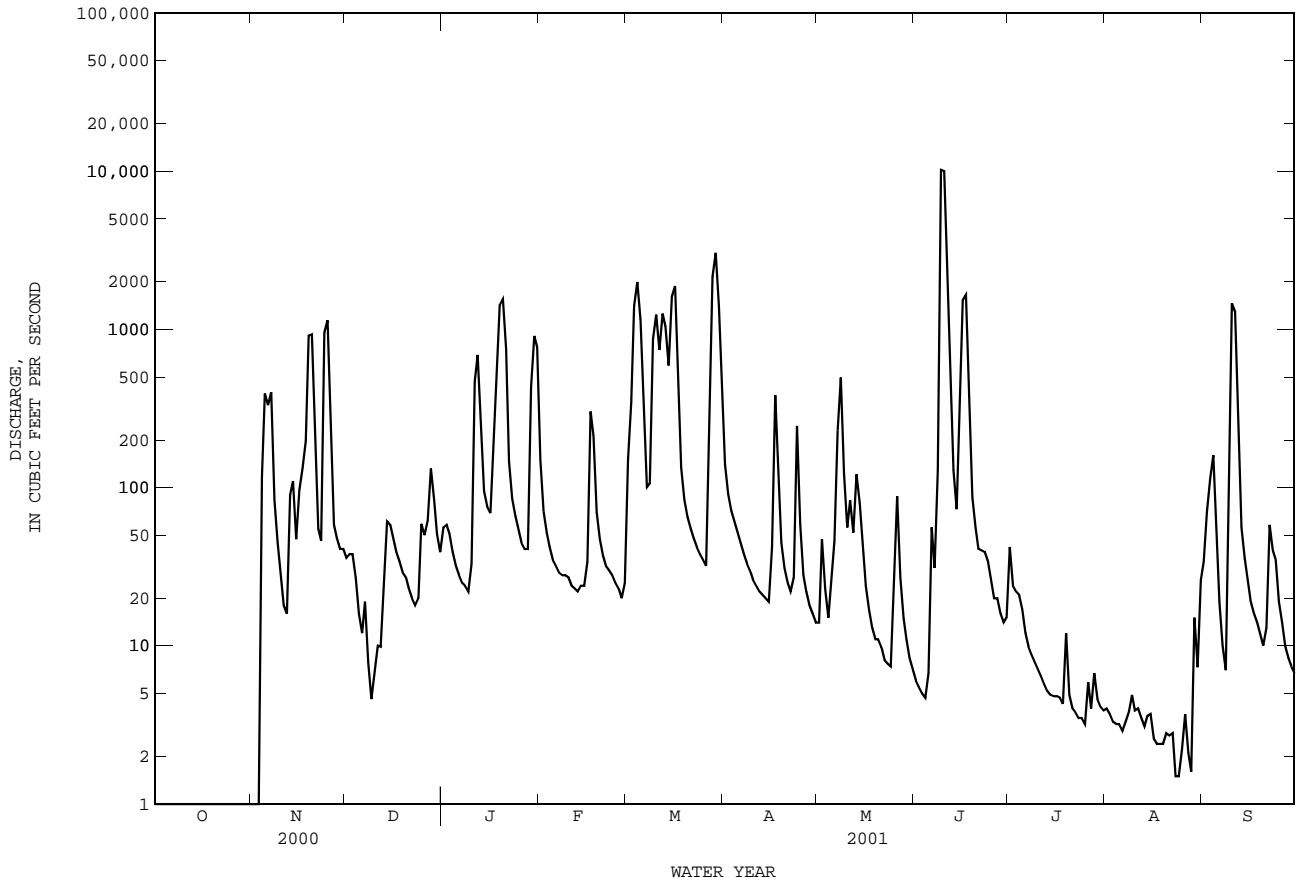
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s, June 9, 2001, gage height, 151.65 ft; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,300 ft³/s, June 9, gage height, 151.65 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	36	56	150	150	141	14	6.0	42	4.0	34
2	.00	.00	38	58	71	345	91	47	5.5	24	3.7	70
3	.00	.00	38	51	52	1410	71	23	5.0	22	3.3	113
4	.00	118	27	39	42	1990	62	15	4.7	21	3.2	160
5	.00	393	16	32	35	1150	53	26	6.7	17	3.2	53
6	.00	331	12	28	32	302	45	46	56	12	2.9	19
7	.00	399	19	25	29	100	38	228	31	9.8	3.3	10
8	.00	84	7.9	24	28	106	33	495	128	8.7	3.8	7.0
9	.00	45	4.6	22	28	872	30	122	10200	7.9	4.9	264
10	.00	30	6.9	33	27	1240	26	56	10000	7.1	3.9	1460
11	.00	18	10	470	24	743	24	83	2660	6.4	4.0	1290
12	.00	16	9.9	688	23	1260	22	52	654	5.7	3.5	220
13	.00	90	24	273	22	1040	21	121	129	5.2	3.1	56
14	.00	110	61	95	24	591	20	80	73	4.9	3.6	36
15	.00	47	58	76	24	1610	19	46	436	4.8	3.7	26
16	.00	97	48	69	34	1880	42	24	1520	4.8	2.6	19
17	.00	133	39	210	302	623	384	17	1650	4.7	2.4	16
18	.00	198	34	509	213	134	141	13	416	4.3	2.4	14
19	.00	910	29	1420	70	84	45	11	87	12	2.4	12
20	.00	927	27	1550	47	65	31	11	56	4.9	2.8	10
21	.00	181	23	751	37	55	25	9.8	41	4.0	2.7	13
22	.00	55	20	147	32	48	22	8.1	40	3.8	2.8	58
23	.00	46	18	85	30	42	27	7.7	39	3.5	1.5	40
24	.00	954	20	66	28	38	245	7.4	34	3.5	1.5	35
25	.00	1140	59	54	25	35	59	20	26	3.2	2.2	19
26	.00	262	50	45	23	32	28	88	20	5.9	3.7	14
27	.00	58	62	41	20	142	22	27	20	4.0	2.1	9.9
28	.00	48	132	41	25	2160	18	15	16	6.7	1.6	8.3
29	.00	41	84	432	---	3050	16	11	14	4.6	15	7.4
30	.00	41	51	909	---	1400	14	8.3	15	4.1	7.3	6.7
31	.00	---	39	770	---	404	---	7.1	---	3.9	26	---
TOTAL	0.00	6772.00	1103.3	9069	1497	23101	1815	1739.4	28388.9	276.4	133.1	4100.3
MEAN	.000	.226	35.6	293	53.5	745	60.5	56.1	946	8.92	4.29	137
MAX	.00	1140	132	1550	302	3050	384	495	10200	42	26	1460
MIN	.00	.00	4.6	22	20	32	14	7.1	4.7	3.2	1.5	6.7
AC-FT	.00	13430	2190	17990	2970	45820	3600	3450	56310	548	264	8130

08068275 Spring Creek near Tomball, TX--Continued



SAN JACINTO RIVER BASIN

08068275 Spring Creek near Tomball, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1999 to current year.
 pH: Oct. 1999 to current year.
 WATER TEMPERATURE: Oct. 1999 to current year.
 DISSOLVED OXYGEN: Oct. 1999 to current year.

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

REMARKS.--Records fair. Interruption in the record occurred during several periods when the meter was out of the water.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 448 microsiemens/cm, Oct. 8, 2000; minimum, 17 microsiemens/cm, June 9, 2001.
 pH: Maximum, 8.7 units, Apr. 2, 2000; minimum, 5.3 units, May 21, 2000, June 10,11, 2001.
 WATER TEMPERATURES: Maximum, 30.5°C, Oct. 5, 2000; minimum, 4.0°C, Jan. 4, 2001.
 DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Jan. 3, 2001; minimum, 0.2 mg/L, Feb. 21, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 448 microsiemens/cm, Oct. 8; minimum, 17 microsiemens/cm, June 9.
 pH: Maximum, 8.6 units, June 8; minimum, 5.9 units, June 10, 11.
 WATER TEMPERATURE: Maximum, 30.5°C, Oct. 5; minimum, 4.0°C, Jan. 4.
 DISSOLVED OXYGEN: Maximum, 12.9 mg/L, Jan. 3; minimum, 1.7 mg/L, July 27.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	196	172	185	187	147	169
2	---	---	---	---	---	---	209	189	193	206	187	195
3	291	215	252	---	---	---	232	198	217	203	186	196
4	403	226	273	313	56	152	221	206	211	195	186	191
5	339	201	268	87	65	71	228	206	220	196	185	189
6	---	---	---	108	86	94	211	193	202	205	187	196
7	---	---	---	114	76	88	213	201	206	214	199	207
8	448	332	364	108	78	92	226	213	219	224	212	218
9	332	201	283	130	103	119	260	224	236	241	222	230
10	---	---	---	145	130	138	246	216	237	249	118	215
11	---	---	---	160	137	146	243	226	232	215	103	135
12	---	---	---	163	71	143	241	232	236	103	87	92
13	---	---	---	194	78	143	250	209	242	113	90	104
14	---	---	---	108	69	91	295	233	264	134	109	121
15	---	---	---	121	105	113	233	192	212	147	130	142
16	---	---	---	147	36	105	213	174	192	166	145	152
17	---	---	---	119	103	111	203	196	199	172	131	153
18	---	---	---	122	90	111	210	193	197	131	96	118
19	---	---	---	91	63	79	201	182	197	96	73	82
20	---	---	---	77	60	67	222	196	205	75	65	71
21	---	---	---	102	71	87	219	208	214	98	71	84
22	---	---	---	125	98	111	221	177	207	122	97	111
23	---	---	---	142	85	131	178	134	155	141	120	131
24	---	---	---	119	52	75	235	137	178	161	134	150
25	---	---	---	81	67	74	247	210	231	176	160	168
26	---	---	---	112	75	94	229	198	211	193	176	182
27	---	---	---	129	103	116	255	210	234	213	183	196
28	---	---	---	146	124	135	253	156	195	220	197	207
29	---	---	---	164	117	152	156	143	151	217	81	141
30	---	---	---	182	153	172	155	144	149	106	70	91
31	---	---	---	---	---	---	164	147	157	99	70	82
MONTH	---	---	---	---	---	---	295	134	206	249	65	152

SAN JACINTO RIVER BASIN

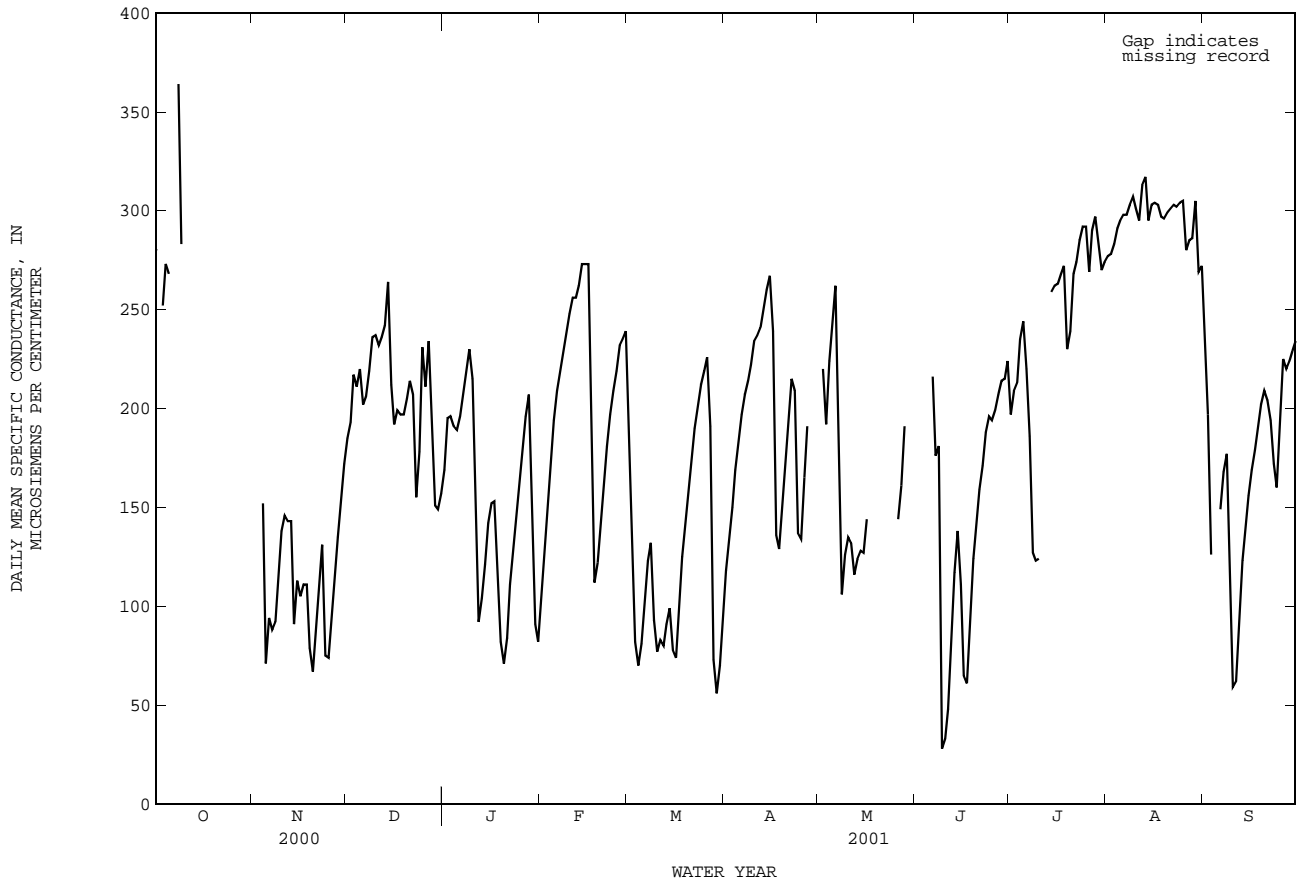
08068275 Spring Creek near Tomball, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	124	98	112	297	113	183	133	107	118	---	---	---
2	149	120	136	146	108	123	146	122	135	276	146	220
3	169	148	158	108	68	82	167	140	150	216	171	192
4	185	168	176	74	67	70	181	155	169	237	181	224
5	203	185	194	91	73	81	193	175	182	323	147	244
6	227	194	209	114	91	104	208	186	197	323	221	262
7	229	212	219	133	114	123	217	197	207	242	107	185
8	236	210	228	147	67	132	222	206	214	119	96	106
9	245	207	237	124	77	93	233	210	222	134	118	126
10	255	240	248	82	73	77	247	224	234	140	131	135
11	260	249	256	95	71	83	248	199	237	154	94	132
12	263	250	256	91	74	80	246	236	241	123	111	116
13	270	256	262	95	88	91	255	241	250	139	113	124
14	280	265	273	111	87	99	267	250	260	153	112	128
15	278	266	273	88	71	78	280	261	267	135	118	127
16	280	268	273	82	68	74	276	60	239	156	134	144
17	282	107	174	113	82	98	212	108	136	---	---	---
18	118	105	112	138	112	125	140	115	129	---	---	---
19	133	114	122	155	136	144	164	136	149	---	---	---
20	152	130	141	168	150	161	187	160	171	---	---	---
21	173	148	162	185	168	176	207	180	194	---	---	---
22	192	168	181	200	181	190	228	202	215	---	---	---
23	210	188	197	210	195	201	234	47	209	---	---	---
24	217	203	209	218	206	212	209	94	137	---	---	---
25	227	212	219	229	213	219	149	123	134	---	---	---
26	237	224	232	233	218	226	180	148	165	231	108	144
27	239	230	235	235	97	191	206	178	191	184	146	161
28	243	227	239	97	58	73	---	---	---	199	181	191
29	---	---	---	60	53	56	---	---	---	---	---	---
30	---	---	---	83	59	70	---	---	---	---	---	---
31	---	---	---	108	82	95	---	---	---	---	---	---
MONTH	282	98	205	297	53	123	---	---	---	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	239	93	197	282	271	277	263	201	230
2	---	---	---	225	174	209	284	269	278	266	121	197
3	---	---	---	229	207	213	294	269	283	165	80	126
4	---	---	---	245	221	235	301	277	291	---	---	---
5	---	---	---	253	233	244	301	283	295	---	---	---
6	308	120	216	239	210	220	305	286	298	161	132	149
7	195	150	176	222	131	186	308	127	298	176	155	168
8	226	43	181	209	110	127	311	294	303	186	169	177
9	43	17	28	129	114	123	312	296	307	184	41	114
10	37	26	33	127	115	124	310	290	301	68	51	59
11	65	36	48	---	---	---	307	278	295	79	52	62
12	103	64	84	---	---	---	325	295	313	113	78	96
13	128	103	117	---	---	---	322	310	317	132	108	123
14	147	128	138	267	252	259	320	78	295	152	126	141
15	150	80	111	267	254	262	310	292	303	167	146	156
16	83	52	65	269	182	263	310	296	304	179	163	169
17	78	51	61	273	260	268	310	290	303	188	146	179
18	114	77	96	277	263	272	304	288	297	198	182	191
19	135	113	124	295	58	230	302	285	296	210	185	202
20	152	134	144	263	121	239	307	292	299	215	197	209
21	172	151	159	275	259	268	308	295	301	220	44	204
22	181	144	171	281	262	274	310	293	303	219	162	194
23	205	168	188	294	271	285	311	297	302	200	151	172
24	205	177	196	302	282	292	309	288	304	178	131	160
25	202	183	194	298	285	292	311	295	305	230	171	195
26	212	186	199	300	43	269	310	49	280	239	214	225
27	218	194	207	303	162	290	302	227	285	225	212	220
28	224	197	214	305	283	297	294	277	286	229	219	224
29	225	202	215	300	270	284	328	273	305	235	220	229
30	232	195	224	275	259	270	308	95	269	240	226	234
31	---	---	---	282	264	274	329	213	272	---	---	---
MONTH	---	---	---	---	---	---	329	49	296	---	---	---

SAN JACINTO RIVER BASIN

08068275 Spring Creek near Tomball, TX--Continued



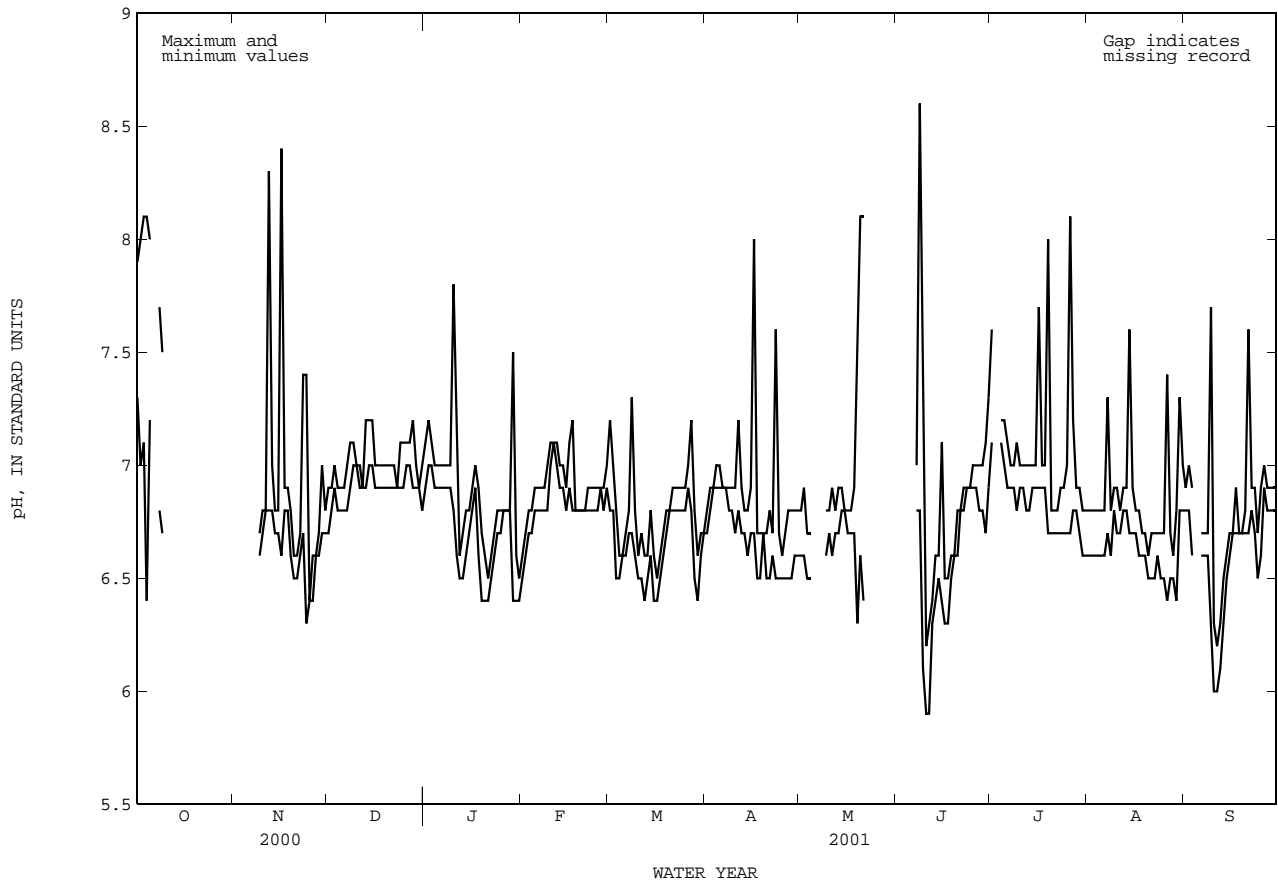
PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.9	7.3	---	---	6.9	6.7	7.1	6.9	6.6	6.5	7.2	6.8
2	8.0	7.0	---	---	6.9	6.8	7.2	7.0	6.7	6.6	7.0	6.8
3	8.1	7.1	---	---	7.0	6.9	7.1	7.0	6.8	6.7	6.8	6.5
4	8.1	6.4	---	---	6.9	6.8	7.0	6.9	6.8	6.7	6.6	6.5
5	8.0	7.2	---	---	6.9	6.8	7.0	6.9	6.9	6.8	6.6	6.6
6	---	---	---	---	6.9	6.8	7.0	6.9	6.9	6.8	6.7	6.6
7	---	---	---	---	7.0	6.8	7.0	6.9	6.9	6.8	6.8	6.7
8	7.7	6.8	---	---	7.1	6.9	7.0	6.9	6.9	6.8	7.3	6.7
9	7.5	6.7	6.7	6.6	7.1	7.0	7.0	6.9	7.0	6.8	6.8	6.6
10	---	---	6.8	6.7	7.0	7.0	7.8	6.8	7.1	7.0	6.6	6.5
11	---	---	6.8	6.8	7.0	6.9	7.0	6.6	7.1	7.1	6.7	6.5
12	---	---	8.3	6.8	6.9	6.9	6.6	6.5	7.1	7.0	6.6	6.4
13	---	---	7.0	6.8	7.2	6.9	6.7	6.5	7.0	6.9	6.6	6.5
14	---	---	6.8	6.7	7.2	7.0	6.8	6.6	7.0	6.9	6.8	6.6
15	---	---	6.8	6.7	7.2	7.0	6.8	6.7	6.9	6.8	6.6	6.4
16	---	---	8.4	6.6	7.0	6.9	6.9	6.8	7.1	6.9	6.5	6.4
17	---	---	6.9	6.8	7.0	6.9	7.0	6.9	7.2	6.8	6.6	6.5
18	---	---	6.9	6.8	7.0	6.9	6.9	6.6	6.8	6.8	6.7	6.6
19	---	---	6.8	6.6	7.0	6.9	6.7	6.4	6.8	6.8	6.8	6.7
20	---	---	6.6	6.5	7.0	6.9	6.6	6.4	6.8	6.8	6.8	6.8
21	---	---	6.6	6.5	7.0	6.9	6.5	6.4	6.8	6.8	6.9	6.8
22	---	---	6.7	6.6	7.0	6.9	6.6	6.5	6.9	6.8	6.9	6.8
23	---	---	7.4	6.7	6.9	6.9	6.7	6.6	6.9	6.8	6.9	6.8
24	---	---	7.4	6.3	7.1	6.9	6.8	6.7	6.9	6.8	6.9	6.8
25	---	---	6.4	6.4	7.1	6.9	6.8	6.7	6.9	6.8	6.9	6.8
26	---	---	6.6	6.4	7.1	7.0	6.8	6.8	6.9	6.9	7.0	6.9
27	---	---	6.6	6.6	7.1	7.0	6.8	6.8	6.9	6.8	7.2	6.8
28	---	---	6.7	6.6	7.2	6.9	6.8	6.8	7.0	6.9	6.8	6.5
29	---	---	7.0	6.7	7.0	6.9	7.5	6.4	---	---	6.6	6.4
30	---	---	6.8	6.7	6.9	6.9	6.6	6.4	---	---	6.7	6.6
31	---	---	---	---	7.0	6.8	6.5	6.4	---	---	6.7	6.7
MONTH	---	---	---	---	7.2	6.7	7.8	6.4	7.2	6.5	7.3	6.4

08068275 Spring Creek near Tomball, TX--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.8	6.7	6.8	6.6	---	---	7.6	7.1	6.8	6.6	6.9	6.8
2	6.9	6.8	6.9	6.6	---	---	---	---	6.8	6.6	7.0	6.8
3	6.9	6.9	6.7	6.5	---	---	---	---	6.8	6.6	6.9	6.6
4	7.0	6.9	6.7	6.5	---	---	7.2	7.1	6.8	6.6	---	---
5	7.0	6.9	---	---	---	---	7.2	7.0	6.8	6.6	---	---
6	6.9	6.9	---	---	---	---	7.1	6.9	6.8	6.6	6.7	6.6
7	6.9	6.9	---	---	7.0	6.8	7.0	6.9	7.3	6.7	6.7	6.6
8	6.9	6.8	---	---	8.6	6.8	7.0	6.9	6.8	6.6	6.7	6.6
9	6.9	6.8	6.8	6.6	6.8	6.1	7.1	6.8	6.9	6.8	7.7	6.3
10	6.9	6.7	6.8	6.7	6.2	5.9	7.0	6.9	6.9	6.7	6.3	6.0
11	7.2	6.8	6.9	6.6	6.3	5.9	7.0	6.9	6.8	6.7	6.2	6.0
12	6.9	6.7	6.8	6.7	6.4	6.3	7.0	6.8	6.9	6.8	6.3	6.1
13	6.8	6.7	6.9	6.7	6.6	6.4	7.0	6.8	6.9	6.8	6.5	6.3
14	6.8	6.6	6.9	6.8	6.6	6.5	7.0	6.9	7.6	6.7	6.6	6.5
15	6.9	6.7	6.8	6.8	7.1	6.4	7.0	6.9	6.9	6.7	6.7	6.6
16	8.0	6.7	6.8	6.7	6.5	6.3	7.7	6.9	6.8	6.7	6.7	6.7
17	6.7	6.5	6.8	6.7	6.5	6.3	7.0	6.9	6.8	6.6	6.9	6.7
18	6.7	6.5	6.9	6.7	6.6	6.5	7.0	6.9	6.7	6.6	6.7	6.7
19	6.7	6.7	7.7	6.3	6.6	6.6	8.0	6.7	6.7	6.6	6.7	6.7
20	6.7	6.5	8.1	6.6	6.8	6.6	6.8	6.7	6.6	6.5	6.8	6.7
21	6.8	6.5	8.1	6.4	6.8	6.8	6.8	6.7	6.7	6.5	7.6	6.7
22	6.7	6.6	---	---	6.9	6.8	6.8	6.7	6.7	6.5	6.9	6.8
23	7.6	6.5	---	---	6.9	6.9	6.9	6.7	6.7	6.6	6.9	6.7
24	6.7	6.5	---	---	6.9	6.9	6.9	6.7	6.7	6.5	6.7	6.5
25	6.6	6.5	---	---	7.0	6.9	7.0	6.7	6.7	6.5	6.9	6.6
26	6.7	6.5	---	---	7.0	6.9	8.1	6.7	7.4	6.4	7.0	6.9
27	6.8	6.5	---	---	7.0	6.8	7.2	6.8	6.7	6.5	6.9	6.8
28	6.8	6.5	---	---	7.0	6.8	6.9	6.8	6.6	6.5	6.9	6.8
29	6.8	6.6	---	---	7.1	6.7	6.9	6.7	6.8	6.4	6.9	6.8
30	6.8	6.6	---	---	7.3	6.9	6.8	6.6	7.3	6.8	6.9	6.8
31	---	---	---	---	---	---	6.8	6.6	7.0	6.8	---	---
MONTH	8.0	6.5	---	---	---	---	---	---	7.6	6.4	---	---



SAN JACINTO RIVER BASIN

08068275 Spring Creek near Tomball, TX--Continued

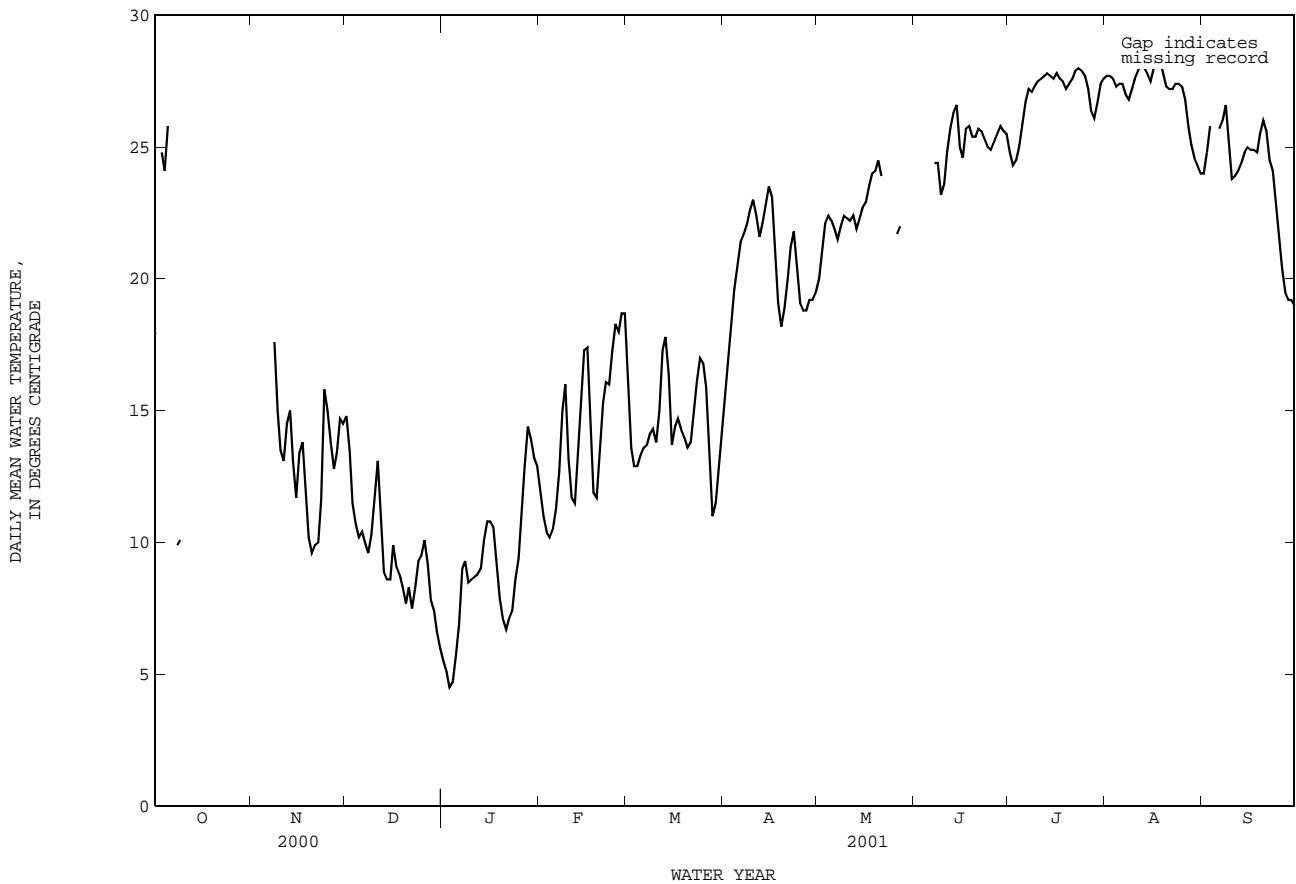
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	15.1	14.4	14.8	5.8	5.3	5.5
2	---	---	---	---	---	---	14.8	12.4	13.5	5.3	4.7	5.1
3	28.8	20.3	24.8	---	---	---	12.4	11.0	11.5	4.9	4.1	4.5
4	29.5	18.3	24.1	---	---	---	11.0	10.4	10.7	5.5	4.0	4.7
5	30.5	21.0	25.8	---	---	---	10.7	9.8	10.2	6.9	4.8	5.7
6	---	---	---	---	---	---	11.0	10.2	10.4	8.1	5.7	6.9
7	---	---	---	---	---	---	10.4	9.6	10.0	9.6	8.0	9.0
8	12.0	7.4	9.9	18.6	16.1	17.6	10.2	8.9	9.6	9.8	8.7	9.3
9	11.9	8.2	10.1	16.1	14.2	15.0	10.9	9.7	10.3	9.1	7.8	8.5
10	---	---	---	14.2	12.9	13.5	12.5	10.8	11.6	9.1	8.5	8.6
11	---	---	---	13.4	12.8	13.1	13.9	12.4	13.1	8.9	8.4	8.7
12	---	---	---	20.3	13.3	14.5	13.0	9.6	10.9	8.9	8.6	8.8
13	---	---	---	15.6	14.3	15.0	10.0	8.7	8.9	9.4	8.8	9.0
14	---	---	---	14.5	12.2	13.1	8.9	8.2	8.6	10.8	9.4	10.1
15	---	---	---	12.2	11.4	11.7	9.0	8.3	8.6	11.1	10.5	10.8
16	---	---	---	15.0	12.0	13.4	10.7	9.0	9.9	11.0	10.7	10.8
17	---	---	---	14.3	12.9	13.8	9.9	8.5	9.1	10.7	10.3	10.6
18	---	---	---	12.9	10.6	11.8	9.5	8.3	8.8	10.3	8.2	9.3
19	---	---	---	10.6	9.9	10.2	9.0	7.8	8.3	8.3	7.5	7.9
20	---	---	---	10.1	9.1	9.6	8.3	7.0	7.7	7.5	6.5	7.1
21	---	---	---	10.2	9.5	9.9	8.8	8.0	8.3	7.0	6.3	6.7
22	---	---	---	10.6	9.4	10.0	8.2	6.9	7.5	7.6	6.6	7.1
23	---	---	---	16.4	10.6	11.6	9.2	7.5	8.3	7.9	6.8	7.4
24	---	---	---	17.8	14.1	15.8	10.5	9.0	9.3	9.6	7.8	8.6
25	---	---	---	15.5	14.5	15.0	9.9	9.1	9.5	10.2	8.6	9.4
26	---	---	---	14.5	13.2	13.8	10.4	9.9	10.1	12.0	10.1	11.0
27	---	---	---	13.2	12.3	12.8	10.0	8.3	9.2	13.9	12.0	12.9
28	---	---	---	14.1	12.9	13.4	8.3	7.6	7.8	15.2	13.8	14.4
29	---	---	---	15.9	14.1	14.7	7.8	7.1	7.4	15.4	13.0	13.9
30	---	---	---	14.8	14.1	14.5	7.1	6.1	6.6	13.8	12.7	13.2
31	---	---	---	---	---	---	6.4	5.8	6.0	13.3	12.5	12.9
MONTH	---	---	---	---	---	---	15.1	5.8	9.6	15.4	4.0	9.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.7	11.5	12.0	17.5	14.7	16.0	16.4	14.5	15.3	21.0	19.2	20.0
2	11.5	10.6	11.0	14.7	12.8	13.6	17.4	16.3	16.8	22.0	20.2	21.0
3	11.0	9.8	10.4	13.0	12.6	12.9	19.1	17.4	18.2	23.0	21.3	22.1
4	11.0	9.4	10.2	13.9	12.1	12.9	20.2	19.1	19.6	22.8	21.9	22.4
5	11.2	9.7	10.5	14.3	12.3	13.3	21.2	19.9	20.5	22.5	21.9	22.2
6	12.3	10.3	11.3	14.0	13.1	13.6	22.0	21.0	21.4	22.3	21.6	21.9
7	13.7	11.8	12.7	14.4	12.9	13.7	22.1	21.4	21.7	22.0	21.3	21.5
8	16.2	13.7	15.0	16.5	13.6	14.1	22.9	21.6	22.1	22.7	21.5	22.0
9	16.4	14.9	16.0	14.7	14.0	14.3	23.4	22.0	22.6	22.7	22.0	22.4
10	14.9	12.5	13.2	14.4	13.0	13.8	23.7	22.4	23.0	22.8	21.9	22.3
11	12.5	11.1	11.7	16.2	14.3	15.0	23.3	21.3	22.4	22.7	21.5	22.2
12	12.4	10.9	11.5	18.5	16.2	17.3	22.0	21.1	21.6	22.9	21.8	22.4
13	14.4	12.4	13.4	18.7	16.9	17.8	22.8	21.5	22.1	22.4	21.1	21.9
14	16.4	14.4	15.4	18.3	12.7	16.4	23.9	22.0	22.8	22.8	21.7	22.3
15	18.1	16.4	17.3	14.8	12.9	13.7	24.5	22.7	23.5	23.3	22.0	22.7
16	18.1	16.0	17.4	15.3	13.4	14.4	25.7	22.2	23.1	23.6	22.3	22.9
17	16.0	12.8	14.2	15.1	14.2	14.7	22.3	20.0	21.0	24.4	22.7	23.5
18	12.8	11.2	11.9	14.7	13.9	14.3	20.0	18.5	19.1	24.8	23.2	24.0
19	12.4	10.9	11.7	14.5	13.7	14.0	18.5	17.7	18.2	25.3	23.6	24.1
20	14.6	12.4	13.4	14.4	12.7	13.6	19.7	18.3	18.9	27.0	23.4	24.5
21	16.1	14.6	15.3	14.9	12.7	13.8	21.3	19.0	20.0	27.5	19.3	23.9
22	16.4	15.9	16.1	15.8	13.8	14.8	21.7	20.6	21.2	---	---	---
23	16.3	15.7	16.0	17.1	15.3	16.1	22.5	20.7	21.8	---	---	---
24	18.2	16.3	17.3	17.4	16.6	17.0	21.4	19.7	20.4	---	---	---
25	19.4	17.5	18.3	17.6	16.3	16.8	19.7	18.3	19.1	---	---	---
26	18.5	17.6	18.0	16.5	15.2	15.9	20.0	17.8	18.8	22.9	21.1	21.7
27	19.8	17.8	18.7	15.7	10.9	13.6	19.7	17.8	18.8	22.8	21.3	22.0
28	19.3	17.5	18.7	11.2	10.8	11.0	20.2	18.3	19.2	---	---	---
29	---	---	---	12.1	11.1	11.5	19.9	18.5	19.2	---	---	---
30	---	---	---	13.4	11.9	12.7	20.1	18.8	19.5	---	---	---
31	---	---	---	14.7	13.1	13.9	---	---	---	---	---	---
MONTH	19.8	9.4	14.2	18.7	10.8	14.4	25.7	14.5	20.4	---	---	---

08068275 Spring Creek near Tomball, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	25.6	23.4	24.8	28.5	27.0	27.7	24.4	23.7	24.0
2	---	---	---	25.5	23.6	24.3	28.1	27.2	27.7	25.5	24.2	24.8
3	---	---	---	25.4	23.7	24.5	28.2	26.9	27.6	26.5	25.3	25.8
4	---	---	---	25.9	24.2	25.0	28.0	26.5	27.3	---	---	---
5	---	---	---	26.8	24.9	25.8	28.2	26.5	27.4	---	---	---
6	---	---	---	27.7	25.9	26.7	28.3	26.7	27.4	26.4	25.1	25.7
7	24.8	24.2	24.4	28.0	26.6	27.2	29.3	26.5	27.0	26.9	25.4	26.0
8	25.6	23.5	24.4	28.0	26.4	27.1	27.7	26.0	26.8	27.2	26.1	26.6
9	23.7	22.9	23.2	28.3	26.5	27.3	28.0	26.5	27.2	26.9	24.0	25.1
10	24.2	23.2	23.6	28.5	26.8	27.5	28.4	26.9	27.6	24.2	23.4	23.8
11	25.8	24.1	24.8	28.6	26.8	27.6	28.6	27.1	27.9	24.5	23.3	23.9
12	26.4	25.2	25.7	28.7	27.0	27.7	28.9	27.3	28.1	24.6	23.6	24.1
13	26.8	25.9	26.3	28.9	27.0	27.8	28.4	27.6	28.0	24.9	23.8	24.4
14	27.1	26.2	26.6	28.3	27.2	27.7	29.1	27.1	27.8	25.4	24.3	24.8
15	26.9	24.0	25.0	28.5	26.8	27.6	28.4	26.7	27.5	25.6	24.5	25.0
16	25.3	24.0	24.6	30.4	27.1	27.8	29.2	27.1	28.0	25.5	24.4	24.9
17	26.7	24.8	25.7	28.2	26.9	27.6	29.2	27.3	28.1	26.4	24.3	24.9
18	26.4	25.3	25.8	28.1	26.9	27.5	29.4	27.4	28.3	25.5	24.2	24.8
19	25.8	24.9	25.4	28.9	26.6	27.2	28.2	27.1	27.8	26.4	25.0	25.5
20	26.0	24.9	25.4	28.3	26.7	27.4	28.4	26.5	27.3	26.8	25.5	26.0
21	26.3	25.1	25.7	28.5	26.8	27.6	27.8	26.6	27.2	27.4	25.0	25.6
22	26.1	25.1	25.6	28.7	27.1	27.9	27.9	26.4	27.2	25.0	24.2	24.5
23	25.6	24.8	25.3	28.7	27.4	28.0	28.7	26.2	27.4	24.4	23.8	24.1
24	25.6	24.4	25.0	28.4	27.3	27.9	28.6	26.3	27.4	23.8	22.4	23.0
25	25.7	24.1	24.9	28.3	27.1	27.7	28.5	26.4	27.3	22.4	21.3	21.8
26	26.1	24.2	25.2	29.3	26.7	27.2	27.7	26.0	26.8	21.3	19.7	20.4
27	26.5	24.6	25.5	27.0	26.2	26.4	26.7	25.2	25.8	20.1	18.9	19.5
28	26.7	24.9	25.8	26.6	25.6	26.1	25.7	24.8	25.1	20.1	18.5	19.2
29	26.4	25.0	25.6	27.6	25.9	26.7	24.9	24.4	24.6	20.1	18.4	19.2
30	26.8	25.0	25.5	28.2	26.7	27.4	24.8	24.1	24.3	19.6	18.2	19.0
31	---	---	---	28.2	26.9	27.6	24.3	23.8	24.0	---	---	---
MONTH	---	---	---	30.4	23.4	27.0	29.4	23.8	27.1	---	---	---



SAN JACINTO RIVER BASIN

08068275 Spring Creek near Tomball, TX--Continued

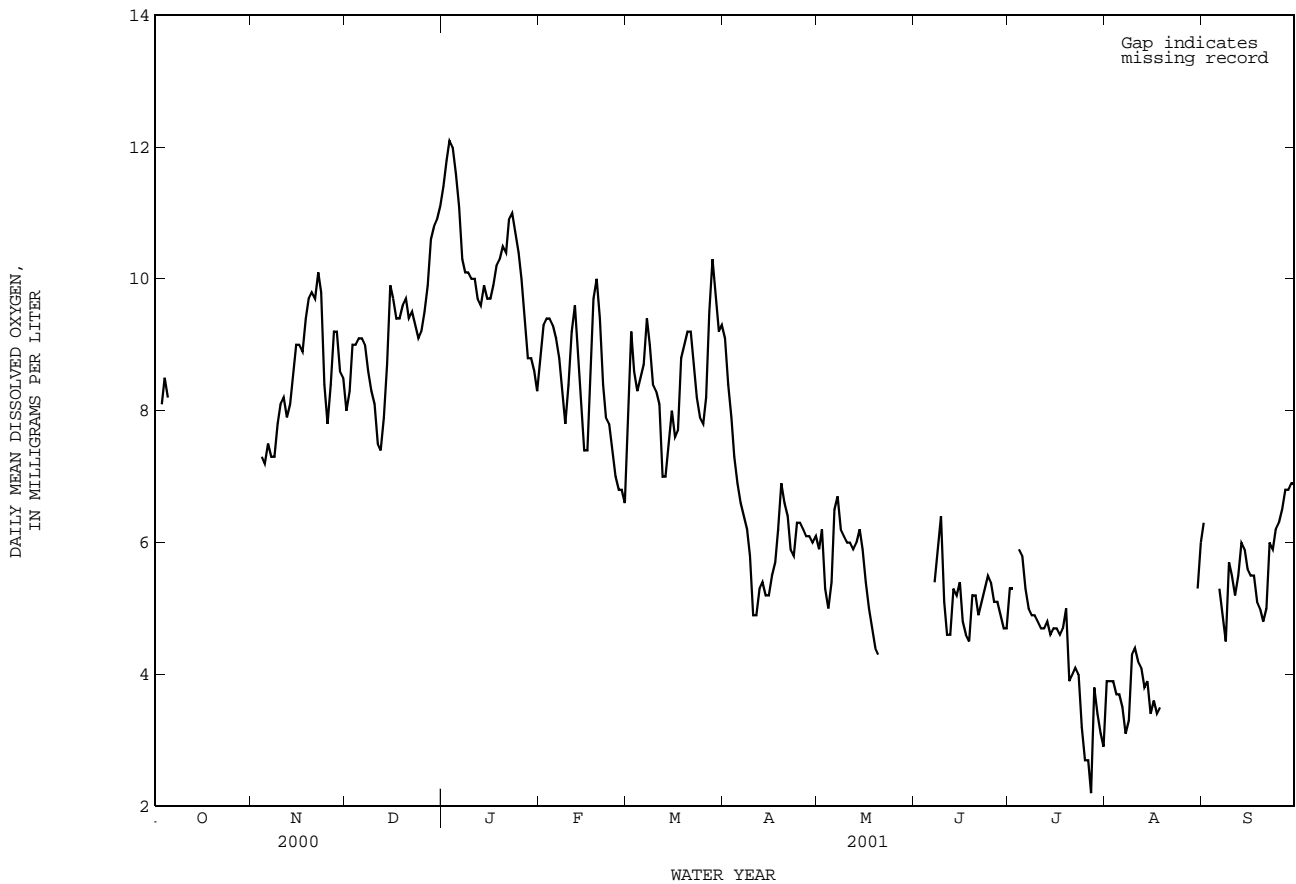
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	8.7	7.6	8.0	12.3	10.9	11.4
2	---	---	---	---	---	---	9.2	7.8	8.3	12.1	11.5	11.8
3	9.0	7.5	8.1	---	---	---	9.6	8.6	9.0	12.9	11.9	12.1
4	9.6	7.6	8.5	7.5	7.2	7.3	9.8	8.0	9.0	12.3	11.8	12.0
5	9.2	7.4	8.2	7.5	6.7	7.2	9.9	8.0	9.1	12.0	11.1	11.6
6	---	---	---	7.9	6.8	7.5	9.4	8.7	9.1	11.5	10.6	11.1
7	---	---	---	7.5	7.1	7.3	9.5	8.6	9.0	11.0	9.8	10.3
8	---	---	---	7.7	6.9	7.3	10.1	8.0	8.6	10.8	9.8	10.1
9	---	---	---	7.9	7.7	7.8	9.5	7.7	8.3	10.9	9.7	10.1
10	---	---	---	8.2	7.9	8.1	9.6	6.9	8.1	10.9	9.4	10.0
11	---	---	---	8.2	8.1	8.2	8.1	7.1	7.5	10.6	9.7	10.0
12	---	---	---	8.3	6.8	7.9	8.3	7.0	7.4	10.0	9.6	9.7
13	---	---	---	8.4	7.7	8.1	9.0	7.3	7.9	10.1	9.3	9.6
14	---	---	---	8.9	7.7	8.5	10.0	7.6	8.7	10.1	9.7	9.9
15	---	---	---	9.4	8.8	9.0	10.8	9.2	9.9	10.0	9.6	9.7
16	---	---	---	9.6	8.7	9.0	10.6	8.4	9.7	10.1	9.6	9.7
17	---	---	---	9.2	8.7	8.9	11.0	8.3	9.4	10.4	9.6	9.9
18	---	---	---	9.9	9.1	9.4	10.1	9.2	9.4	10.4	9.9	10.2
19	---	---	---	9.9	9.7	9.7	10.6	9.1	9.6	10.4	10.2	10.3
20	---	---	---	10.0	9.6	9.8	10.6	9.1	9.7	11.0	10.3	10.5
21	---	---	---	10.1	9.4	9.7	10.2	9.1	9.4	10.7	10.3	10.4
22	---	---	---	10.2	9.9	10.1	10.3	9.0	9.5	11.3	10.5	10.9
23	---	---	---	10.1	9.3	9.8	10.2	8.4	9.3	11.1	10.8	11.0
24	---	---	---	9.6	7.6	8.4	10.3	8.4	9.1	11.0	10.5	10.7
25	---	---	---	8.1	7.6	7.8	9.7	8.3	9.2	10.6	10.1	10.4
26	---	---	---	9.2	7.7	8.4	9.8	9.2	9.5	10.2	9.6	10.0
27	---	---	---	9.4	9.0	9.2	10.8	9.5	9.9	9.6	9.0	9.4
28	---	---	---	9.5	8.7	9.2	11.5	9.9	10.6	9.1	8.5	8.8
29	---	---	---	9.4	8.1	8.6	11.6	9.7	10.8	9.5	8.1	8.8
30	---	---	---	10.1	6.6	8.5	11.4	10.7	10.9	8.7	8.4	8.6
31	---	---	---	---	---	---	11.7	10.6	11.1	8.7	8.1	8.3
MONTH	---	---	---	---	---	---	11.7	6.9	9.2	12.9	8.1	10.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	9.2	8.2	8.8	8.8	7.2	8.1	9.4	8.8	9.1	6.1	5.6	5.9
2	9.4	9.1	9.3	9.6	8.4	9.2	8.8	8.1	8.4	7.4	5.6	6.2
3	9.7	9.3	9.4	9.2	7.9	8.6	8.1	7.6	7.9	5.7	5.1	5.3
4	9.6	9.3	9.4	8.5	8.0	8.3	7.6	6.6	7.3	5.2	4.9	5.0
5	9.6	9.2	9.3	8.7	8.4	8.5	7.0	6.7	6.9	6.7	4.9	5.4
6	9.3	8.9	9.1	9.3	8.3	8.7	6.7	6.5	6.6	6.9	6.4	6.5
7	8.9	8.5	8.8	9.5	9.2	9.4	6.5	6.3	6.4	7.2	6.5	6.7
8	9.1	8.0	8.3	9.5	8.3	9.0	6.4	6.2	6.2	6.6	6.0	6.2
9	8.3	7.5	7.8	8.8	8.1	8.4	6.2	4.6	5.8	6.3	5.9	6.1
10	9.4	7.8	8.4	8.4	8.1	8.3	5.0	4.7	4.9	6.2	5.8	6.0
11	9.5	8.8	9.2	8.5	7.4	8.1	5.4	4.8	4.9	6.6	5.6	6.0
12	9.7	9.3	9.6	7.6	6.5	7.0	5.4	5.1	5.3	6.0	5.4	5.9
13	9.4	8.6	9.0	7.2	6.8	7.0	5.5	5.1	5.4	6.3	5.7	6.0
14	8.6	7.8	8.3	9.4	5.8	7.5	5.3	4.9	5.2	6.3	6.0	6.2
15	7.8	7.1	7.4	9.2	7.5	8.0	5.3	4.8	5.2	6.1	5.6	5.9
16	8.1	7.0	7.4	7.9	7.4	7.6	8.1	5.1	5.5	5.6	5.1	5.4
17	9.2	8.1	8.7	8.3	7.3	7.7	6.1	5.3	5.7	5.2	4.6	5.0
18	10.1	9.2	9.7	9.0	8.3	8.8	6.8	5.3	6.2	4.8	4.5	4.7
19	10.1	9.8	10.0	9.1	8.9	9.0	6.9	6.8	6.9	4.5	4.2	4.4
20	9.8	8.8	9.4	9.3	9.1	9.2	6.8	6.5	6.6	4.5	4.1	4.3
21	8.8	8.0	8.4	9.4	8.9	9.2	6.5	6.1	6.4	---	---	---
22	8.0	7.8	7.9	8.9	8.4	8.7	6.1	5.7	5.9	---	---	---
23	7.9	7.7	7.8	8.4	7.9	8.2	9.0	5.3	5.8	---	---	---
24	7.7	7.1	7.4	8.0	7.7	7.9	7.3	5.9	6.3	---	---	---
25	7.2	6.7	7.0	8.1	7.6	7.8	6.6	5.8	6.3	---	---	---
26	6.9	6.6	6.8	8.5	7.9	8.2	6.5	6.0	6.2	---	---	---
27	7.0	6.5	6.8	11.1	8.3	9.5	6.2	5.5	6.1	---	---	---
28	7.2	6.4	6.6	11.1	10.0	10.3	6.3	5.6	6.1	---	---	---
29	---	---	---	10.0	9.4	9.8	6.2	5.3	6.0	---	---	---
30	---	---	---	9.4	9.1	9.2	6.2	5.8	6.1	---	---	---
31	---	---	---	9.5	9.1	9.3	---	---	---	---	---	---
MONTH	10.1	6.4	8.4	11.1	5.8	8.5	9.4	4.6	6.3	---	---	---

08068275 Spring Creek near Tomball, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.5	4.6	5.3	4.6	3.2	3.9	6.6	6.0	6.3
2	---	---	---	5.6	5.0	5.3	4.4	3.2	3.9	---	---	---
3	---	---	---	---	---	---	4.7	3.2	3.9	---	---	---
4	---	---	---	6.1	5.8	5.9	4.6	2.8	3.7	---	---	---
5	---	---	---	6.0	5.4	5.8	4.7	2.9	3.7	---	---	---
6	---	---	---	5.7	5.0	5.3	4.6	2.5	3.5	5.7	5.1	5.3
7	5.9	5.2	5.4	5.5	4.8	5.0	6.4	2.0	3.1	5.1	4.7	4.9
8	7.6	5.4	5.9	5.4	4.6	4.9	4.7	1.9	3.3	4.7	4.3	4.5
9	7.6	5.5	6.4	5.5	4.5	4.9	5.4	3.1	4.3	7.8	4.0	5.7
10	5.5	4.8	5.1	5.4	4.5	4.8	5.2	3.8	4.4	5.7	5.3	5.5
11	4.8	4.4	4.6	5.4	4.3	4.7	5.2	3.2	4.2	5.3	4.9	5.2
12	5.0	4.4	4.6	5.4	4.2	4.7	5.4	2.9	4.1	6.0	4.8	5.5
13	5.4	5.0	5.3	5.5	4.2	4.8	5.2	2.8	3.8	6.1	5.9	6.0
14	5.3	5.1	5.2	5.2	4.1	4.6	7.4	2.5	3.9	5.9	5.7	5.9
15	6.3	4.6	5.4	5.6	4.1	4.7	5.1	2.4	3.4	5.7	5.5	5.6
16	5.0	4.5	4.8	6.4	4.0	4.7	5.4	2.6	3.6	5.6	5.4	5.5
17	4.7	4.4	4.6	5.4	3.9	4.6	5.2	2.1	3.4	6.8	5.3	5.5
18	5.1	4.2	4.5	5.4	4.1	4.7	5.6	1.9	3.5	5.3	4.7	5.1
19	5.3	5.0	5.2	7.0	4.2	5.0	---	---	---	5.1	4.9	5.0
20	5.3	4.8	5.2	4.6	3.7	3.9	---	---	---	5.0	4.7	4.8
21	5.1	4.6	4.9	4.9	3.4	4.0	---	---	---	7.9	4.6	5.0
22	5.3	4.3	5.1	4.9	3.4	4.1	---	---	---	6.2	5.4	6.0
23	5.4	5.1	5.3	4.8	2.7	4.0	---	---	---	6.4	5.8	5.9
24	5.7	4.8	5.5	3.8	2.6	3.2	---	---	---	6.3	6.0	6.2
25	5.5	5.1	5.4	3.6	1.9	2.7	---	---	---	6.4	6.0	6.3
26	5.3	3.6	5.1	6.9	1.9	2.7	---	---	---	6.6	6.3	6.5
27	5.4	4.1	5.1	5.2	1.7	2.2	---	---	---	7.0	6.5	6.8
28	5.2	3.8	4.9	4.5	2.5	3.8	---	---	---	7.1	6.7	6.8
29	5.0	4.2	4.7	4.1	2.6	3.4	---	---	---	7.2	6.8	6.9
30	4.9	4.5	4.7	3.7	2.2	3.1	7.7	4.3	5.3	7.2	6.7	6.9
31	---	---	---	4.2	2.2	2.9	6.3	5.2	6.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



SAN JACINTO RIVER BASIN

08068390 Bear Branch at Research Forest Boulevard, The Woodlands, TX

LOCATION.--Lat 30°11'26", long 95°29'28", Montgomery County, Hydrologic Unit 12040102, on left bank at downstream side of bridge on Research Boulevard, 1.5 mi upstream from Panther Branch, and 8.4 mi southwest of Conroe.

DRAINAGE AREA.--15.4 mi².

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

Water-quality records.--Chemical data: Mar. 1999 to Nov. 1999. Biochemical data: Mar. 1999 to Nov. 1999. Pesticide data: Mar. 1999 to Nov. 1999. Sediment data: Mar. 1999 to Nov. 1999.

GAGE.--Water-stage recorder. Datum of gage is 125.49 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversion. No flow at times.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,980 ft³/s, June 8, 2001, gage height, 17.28 ft; no flow for many days.

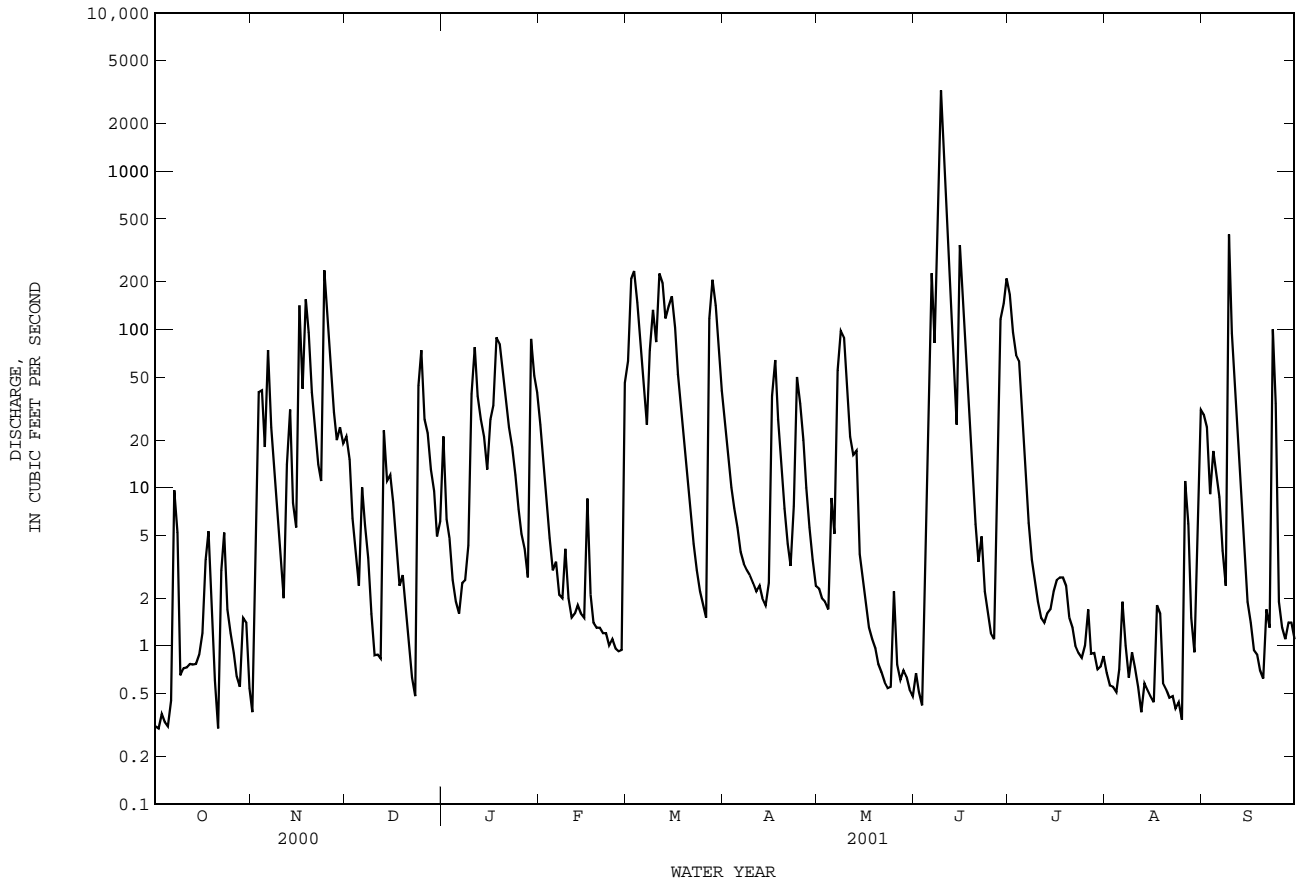
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,980 ft³/s, June 8, gage height, 17.28 ft; minimum daily discharge, 0.30 ft³/s, on Oct. 2, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.38	21	21	25	63	27	2.3	.67	166	.67	29
2	.30	5.4	15	6.3	14	209	17	2.0	.51	96	.56	24
3	.37	40	6.4	4.8	8.1	234	10	1.9	.42	69	.55	9.1
4	.33	41	3.9	2.6	4.8	148	7.4	1.7	1.8	63	.51	17
5	.31	18	2.4	1.9	3.0	78	5.6	8.6	8.4	32	.71	12
6	.45	74	10	1.6	3.4	42	3.9	5.1	226	13	1.9	8.7
7	9.6	24	5.8	2.5	2.1	25	3.3	55	82	6.0	1.0	4.0
8	5.2	14	3.6	2.6	2.0	74	3.0	98	802	3.5	.63	2.4
9	.65	7.4	1.6	4.3	4.1	133	2.8	89	3240	2.6	.91	397
10	.72	3.8	.87	39	2.0	83	2.5	43	1140	1.9	.73	94
11	.73	2.0	.88	77	1.5	225	2.2	21	386	1.5	.55	48
12	.77	14	.83	38	1.6	196	2.4	16	158	1.4	.38	21
13	.76	31	23	27	1.8	117	2.0	17	58	1.6	.58	7.6
14	.77	8.0	11	21	1.6	140	1.8	3.8	25	1.7	.53	3.5
15	.88	5.6	12	13	1.5	162	2.5	2.8	341	2.2	.48	1.9
16	1.2	141	8.1	27	8.5	103	38	1.9	184	2.6	.44	1.4
17	3.5	42	4.4	33	2.1	52	64	1.3	77	2.7	1.8	.94
18	5.3	155	2.4	89	1.4	31	27	1.1	34	2.7	1.6	.88
19	1.6	96	2.8	81	1.3	19	15	.96	14	2.4	.58	.70
20	.60	40	1.7	55	1.3	11	7.4	.77	5.9	1.5	.53	.62
21	.30	24	1.1	35	1.2	6.8	4.4	.68	3.4	1.3	.47	1.7
22	3.0	14	.63	24	1.2	4.4	3.2	.59	4.9	1.0	.48	1.3
23	5.2	11	.48	18	1.0	3.0	7.6	.54	2.2	.90	e.40	100
24	1.7	236	44	12	1.1	2.2	50	.55	1.6	.84	.44	34
25	1.2	106	74	7.3	.96	1.8	34	2.2	1.2	1.0	e.34	1.9
26	.90	53	27	5.1	.92	1.5	20	.76	1.1	1.7	11	1.3
27	.64	30	22	4.1	.94	117	10	.61	17	.89	5.9	1.1
28	.55	20	13	2.7	46	206	5.6	.70	116	.90	1.5	1.4
29	1.5	24	9.5	87	---	142	3.5	.64	146	.71	.91	1.4
30	1.4	19	4.9	51	---	74	2.4	.53	210	.74	5.4	1.1
31	.54	---	6.1	40	---	41	---	.48	---	.86	31	---
TOTAL	51.28	1299.58	340.39	833.8	144.42	2744.7	385.5	381.51	7288.10	484.14	73.48	828.94
MEAN	1.65	43.3	11.0	26.9	5.16	88.5	12.9	12.3	243	15.6	2.37	27.6
MAX	9.6	236	74	89	46	234	64	98	3240	166	31	397
MIN	.30	.38	.48	1.6	.92	1.5	1.8	.48	.42	.71	.34	.62
AC-FT	102	2580	675	1650	286	5440	765	757	14460	960	146	1640

e Estimated

08068390 Bear Branch at Research Forest Boulevard, The Woodlands, TX--Continued



SAN JACINTO RIVER BASIN

08068400 Panther Branch at Gosling Road, The Woodlands, TX

LOCATION.--Lat 30°11'31", long 95°29'01", Montgomery County, Hydrologic Unit 12040102, on the right bank between the northbound and southbound lanes of Gosling Road, 0.5 mi north of Research Forest Blvd.

DRAINAGE AREA.--25.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr. 1972 to Sept. 1976 (daily mean discharge), Apr. 1980 to Sept. 1988 (annual maximum), Jan. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.25 ft above sea level. Satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	33	39	36	98	35	7.8	7.7	244	4.4	47
2	2.4	8.6	24	15	23	353	24	7.3	7.2	188	4.3	34
3	2.6	78	13	11	14	312	17	6.8	6.8	101	4.2	16
4	2.2	76	10	7.2	10	154	14	6.5	9.8	72	4.1	28
5	2.8	36	7.8	6.4	8.5	93	13	18	14	40	4.5	22
6	3.4	107	21	5.7	8.5	59	11	12	463	23	7.1	17
7	20	41	13	6.6	7.0	34	9.3	102	138	15	6.6	10
8	18	24	9.4	7.2	7.0	80	8.8	267	1210	12	4.9	7.2
9	4.3	15	6.6	8.2	10	226	8.5	123	4590	9.7	5.1	370
10	3.4	9.9	5.1	46	6.9	99	7.7	61	968	7.7	5.0	116
11	3.1	7.4	4.9	131	5.7	384	8.2	32	416	6.5	4.6	58
12	2.7	21	4.5	58	6.2	268	8.4	24	188	5.9	4.2	28
13	2.6	60	40	40	6.3	130	7.8	34	94	5.5	4.7	16
14	2.6	18	19	34	6.2	187	7.4	12	40	4.9	4.2	11
15	2.6	12	20	20	6.3	236	7.6	10	615	4.6	4.2	7.9
16	3.4	138	15	44	19	117	47	8.5	270	4.7	4.2	6.4
17	11	70	9.8	61	7.9	73	94	7.0	114	4.8	5.4	5.3
18	16	155	7.5	135	5.7	44	34	6.6	50	4.7	5.8	5.1
19	5.1	128	7.2	124	5.3	28	21	6.1	26	5.3	4.0	4.8
20	3.1	62	5.6	73	5.3	17	14	5.7	16	6.0	3.9	4.8
21	2.2	39	4.8	51	4.9	12	11	5.6	12	5.6	3.9	6.3
22	5.7	24	3.9	34	5.2	9.4	8.9	5.2	15	5.1	4.1	6.4
23	14	19	3.5	25	4.9	8.0	12	5.3	9.5	5.0	4.4	89
24	6.6	385	58	18	5.1	7.1	98	5.8	7.8	4.8	3.9	61
25	3.5	115	121	13	4.7	6.3	43	11	7.0	5.0	4.2	8.5
26	3.0	71	45	11	4.5	5.8	28	7.5	6.3	5.7	15	6.5
27	2.8	45	34	10	4.6	159	17	7.5	38	4.8	15	5.2
28	2.5	29	20	8.2	176	338	12	7.7	403	4.6	7.7	4.8
29	4.2	48	15	127	---	152	9.5	7.4	243	4.4	5.4	4.5
30	6.0	33	10	74	---	97	7.9	7.2	295	4.6	14	3.5
31	3.6	---	10	56	---	55	---	7.5	---	4.5	47	---
TOTAL	167.4	1877.4	601.6	1299.5	414.7	3841.6	645.0	835.0	10280.1	819.4	220.0	1010.2
MEAN	5.40	62.6	19.4	41.9	14.8	124	21.5	26.9	343	26.4	7.10	33.7
MAX	20	385	121	135	176	384	98	267	4590	244	47	370
MIN	2.0	2.5	3.5	5.7	4.5	5.8	7.4	5.2	6.3	4.4	3.9	3.5
AC-FT	332	3720	1190	2580	823	7620	1280	1660	20390	1630	436	2000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001h, BY WATER YEAR (WY)

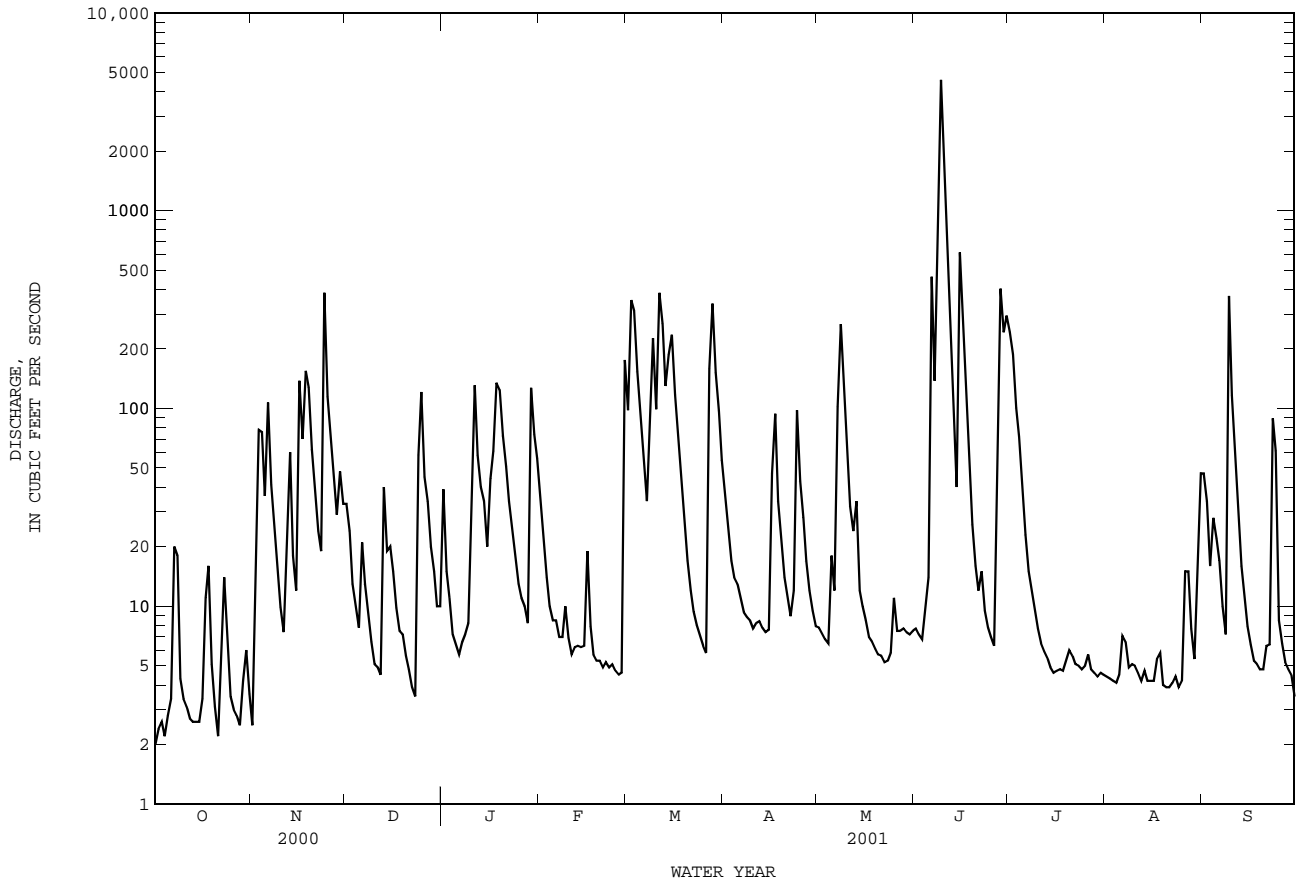
	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	7.19	42.6	25.3	17.7	13.5	32.3	30.4	43.4	83.8	11.3	3.94	11.5																	
MAX	18.1	96.1	62.6	41.9	42.6	124	80.5	109	343	26.4	7.10	33.7																	
(WY)	1975	1975	1975	2001	1975	2001	1975	2000	2001	2001	2001	2001																	
MIN	1.04	1.70	6.50	.81	.27	1.36	1.50	7.43	10.5	2.85	1.78	.15																	
(WY)	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1976	1975																	

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001h	
ANNUAL TOTAL	8934.7		22011.9			
ANNUAL MEAN	24.4		60.3		36.8	
HIGHEST ANNUAL MEAN					60.3	
LOWEST ANNUAL MEAN					19.4	
HIGHEST DAILY MEAN	729	May 20	4590	Jun 9	4590	Jun 9 2001
LOWEST DAILY MEAN	2.0	Oct 1	2.0	Oct 1	.00	Aug 1 1974
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 26	2.9	Oct 10	.00	Aug 17 1974
MAXIMUM PEAK FLOW			9040		9040	
MAXIMUM PEAK STAGE			15.35		15.35	
ANNUAL RUNOFF (AC-FT)	17720		43660		26680	
10 PERCENT EXCEEDS	45		125		47	
50 PERCENT EXCEEDS	5.1		10		4.2	
90 PERCENT EXCEEDS	3.1		4.2		.09	

h see PERIOD OF RECORD paragraph.

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued



08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Mar. 1974 to Sept. 1975, Mar. 1999 to Nov. 2000.
 BIOCHEMICAL DATA: Mar. 1974 to Sept. 1975, Mar. 1999 to Nov. 2000.
 PESTICIDE DATA: Mar. Mar. 1974 to Sept. 1975, 1999 to Nov. 2000.
 SEDIMENT DATA: Mar. 1999 to Nov. 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Mar. 1999 to current year.
 pH: Mar. 1999 to current year.
 WATER TEMPERATURE: Mar. 1999 to current year.
 DISSOLVED OXYGEN: Mar. 1999 to current year.

INSTRUMENTATION:--Water-quality monitor since Mar. 1999.

REMARKS.--Records fair. Interruption in the record was caused by malfunctions of the instrumentation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,550 microsiemens/cm, May 4, 1999; minimum, 29 microsiemens/cm, June 10, 2001.
 pH: Maximum, 9.2 units, Sept. 1, 2000; minimum, 6.4 units, June 13, 14, 1999, Feb. 28, Mar. 11, 12, May 8, 2001.
 WATER TEMPERATURES: Maximum, 32.1°C, July 28, 1999; minimum, 5.9°C, Jan. 20, 2001.
 DISSOLVED OXYGEN: Maximum, 12.0 mg/L, Jan. 2, 2001; minimum, 0.0 mg/L, Aug. 28, 29, Sept. 12, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 986 microsiemens/cm, Oct. 4; minimum, 29 microsiemens/cm, June 10.
 pH: Maximum, 8.0 units, Nov. 1, 2, May 30, June 1-3, 25; minimum, 6.4 units, Feb. 28, Mar. 11, 12, May 8.
 WATER TEMPERATURE: Maximum, 31.4°C, July 6, 9; minimum, 5.9°C, Jan. 20.
 DISSOLVED OXYGEN: Maximum, 12.0 mg/L, Jan. 2; minimum, 0.5 mg/L, Oct. 15, 21.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	951	818	922	886	696	840	379	205	283	404	253	306
2	973	882	946	864	313	682	357	245	309	439	304	365
3	959	852	931	416	229	322	453	281	374	518	373	448
4	986	858	950	371	234	300	519	326	448	547	328	455
5	974	891	946	444	371	399	573	389	513	613	433	551
6	970	867	938	449	215	282	588	316	441	636	439	568
7	932	359	720	430	310	374	457	271	386	638	450	565
8	622	375	478	465	368	429	542	318	449	614	442	551
9	790	574	693	528	380	465	664	374	517	748	475	622
10	837	647	775	569	414	522	700	488	627	768	140	517
11	911	758	854	640	437	560	734	541	680	195	119	149
12	919	769	892	631	208	514	734	534	655	237	185	211
13	941	857	919	365	209	273	784	233	445	274	204	239
14	949	835	919	470	325	406	404	246	323	328	252	289
15	952	801	911	511	367	464	426	307	359	364	254	323
16	930	808	901	512	89	229	442	298	377	373	235	295
17	911	468	624	312	216	265	497	336	433	258	201	238
18	663	380	501	330	166	225	559	371	488	218	137	172
19	799	461	606	267	170	213	558	376	495	164	139	152
20	885	679	816	298	250	274	626	401	549	192	151	168
21	922	706	872	340	264	306	696	493	630	234	174	204
22	928	569	756	409	280	349	799	552	706	293	202	250
23	632	404	514	451	308	396	825	608	758	407	234	311
24	670	466	575	308	82	119	818	131	515	362	257	323
25	770	564	681	160	128	141	194	131	159	427	269	370
26	818	532	731	192	139	163	272	194	226	488	323	432
27	849	675	812	245	167	209	324	236	282	543	393	476
28	874	665	811	304	192	250	385	272	327	566	389	501
29	883	601	807	326	205	253	417	292	370	565	138	226
30	789	552	669	281	182	251	509	331	432	199	156	178
31	850	614	774	---	---	---	526	330	447	255	169	204
MONTH	986	359	782	886	82	349	825	131	452	768	119	344

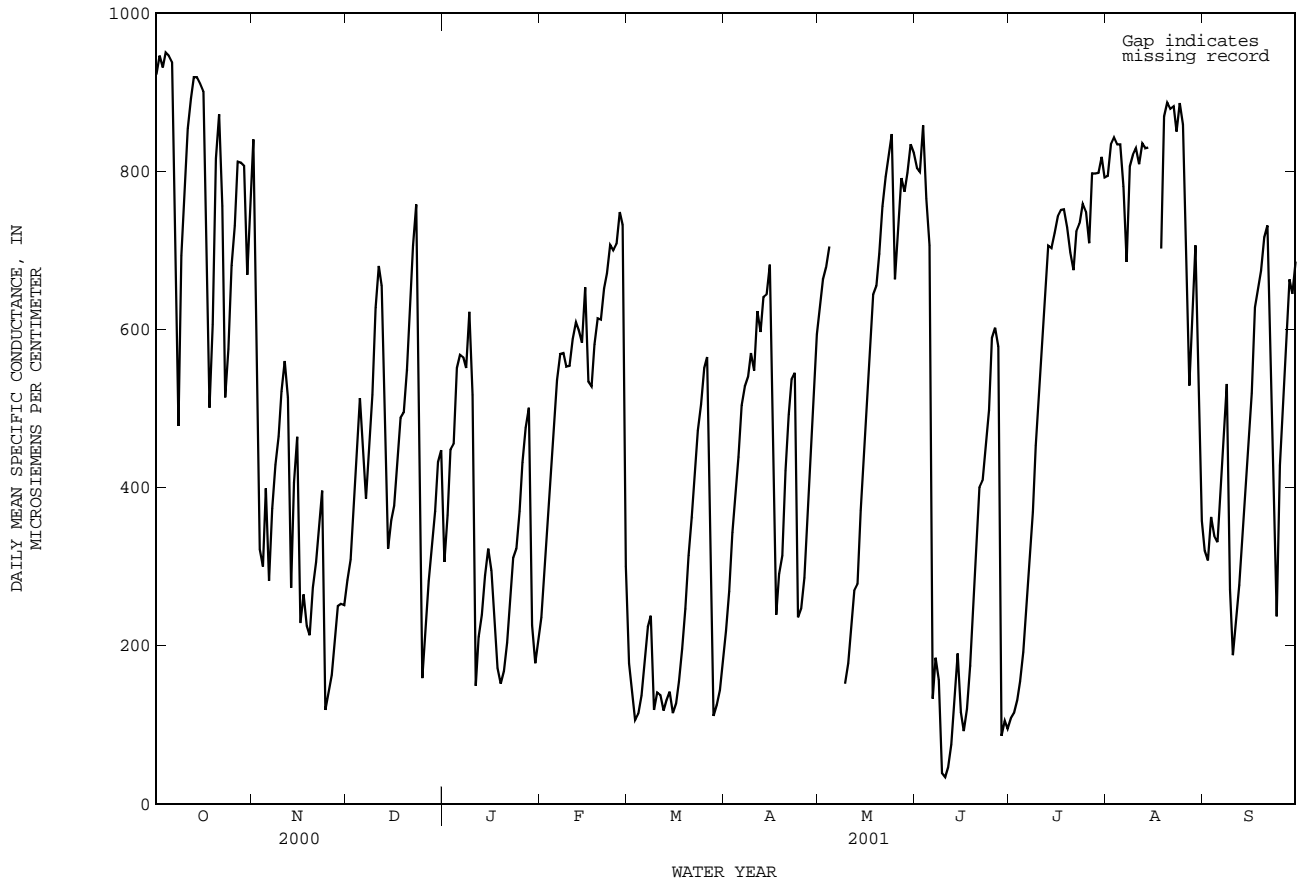
08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	279	169	236	203	147	178	258	179	219	697	476	630
2	355	225	296	209	89	140	330	192	269	715	516	663
3	415	270	353	116	89	106	397	269	343	741	540	679
4	474	310	410	123	105	114	430	309	389	758	595	705
5	542	363	480	165	117	137	506	340	439	---	---	---
6	637	399	536	215	149	182	572	391	504	---	---	---
7	701	385	569	267	164	224	582	417	528	---	---	---
8	623	448	570	317	97	238	611	430	540	---	---	---
9	638	445	553	141	101	119	614	451	570	158	143	152
10	615	439	554	168	129	141	671	398	548	212	147	178
11	648	455	588	195	88	138	685	498	623	278	171	224
12	657	476	609	136	94	118	669	447	597	323	173	270
13	646	481	599	150	114	131	738	512	641	364	205	278
14	732	367	583	166	112	142	710	519	644	417	264	371
15	719	496	653	128	99	115	737	564	682	502	319	430
16	686	434	534	144	111	127	579	184	404	583	360	501
17	625	417	528	182	133	155	288	189	239	675	429	574
18	677	421	581	232	157	196	334	242	291	696	480	644
19	671	478	614	286	199	247	398	235	314	718	503	655
20	671	476	612	366	243	314	498	320	421	766	536	696
21	728	457	652	413	275	363	563	376	492	805	615	756
22	719	546	671	468	327	419	609	410	537	849	631	793
23	763	553	707	517	366	472	679	336	545	910	651	821
24	766	555	700	572	382	505	339	205	236	893	689	847
25	789	563	708	630	419	551	269	209	247	880	400	663
26	794	600	748	623	428	565	330	230	286	835	577	723
27	798	579	732	631	110	404	423	269	354	894	626	791
28	806	91	300	123	99	111	499	308	421	864	619	774
29	---	---	---	140	115	125	578	357	492	867	651	798
30	---	---	---	166	126	144	674	451	594	884	685	834
31	---	---	---	205	152	179	---	---	---	906	706	823
MONTH	806	91	560	631	88	229	738	179	447	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	856	678	804	121	98	108	846	687	794	370	293	320
2	869	669	799	135	100	115	874	730	834	352	269	308
3	917	737	858	141	116	131	878	731	843	414	292	363
4	906	476	765	180	120	155	877	726	834	440	169	339
5	871	219	706	209	155	192	876	731	834	408	277	331
6	219	116	133	299	191	243	895	482	781	483	316	394
7	207	168	185	372	221	305	829	526	685	538	352	459
8	212	39	157	458	270	369	861	592	806	615	401	531
9	63	30	39	587	341	453	897	709	821	614	77	271
10	40	29	34	567	391	510	876	691	829	219	134	188
11	58	39	46	629	451	574	857	691	809	251	209	232
12	99	58	75	690	519	651	860	758	835	335	229	277
13	166	98	126	762	583	706	857	730	829	406	262	347
14	236	146	190	758	586	703	857	751	830	491	295	410
15	266	63	116	780	625	722	---	---	---	521	332	460
16	104	78	92	788	651	743	---	---	---	583	384	519
17	152	101	120	791	624	751	---	---	---	692	497	628
18	214	138	175	813	640	752	860	400	702	711	504	652
19	318	180	250	782	612	729	905	767	869	739	554	674
20	403	231	330	777	537	697	910	775	887	777	536	716
21	475	280	400	749	544	675	907	799	879	835	507	731
22	491	310	409	768	606	724	913	785	882	670	525	616
23	531	335	453	777	595	734	905	695	850	687	88	403
24	605	372	498	806	623	759	914	777	886	381	121	237
25	642	437	589	824	611	749	913	703	859	528	320	428
26	651	483	602	799	584	709	894	322	659	598	370	527
27	776	69	578	867	683	797	667	421	529	672	450	604
28	112	64	86	850	688	797	677	564	626	726	503	663
29	118	94	105	863	683	798	783	613	706	741	495	645
30	106	87	95	853	716	818	774	468	583	743	552	686
31	---	---	---	829	667	792	539	290	358	---	---	---
MONTH	917	29	327	867	98	579	---	---	---	835	77	465

SAN JACINTO RIVER BASIN

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued



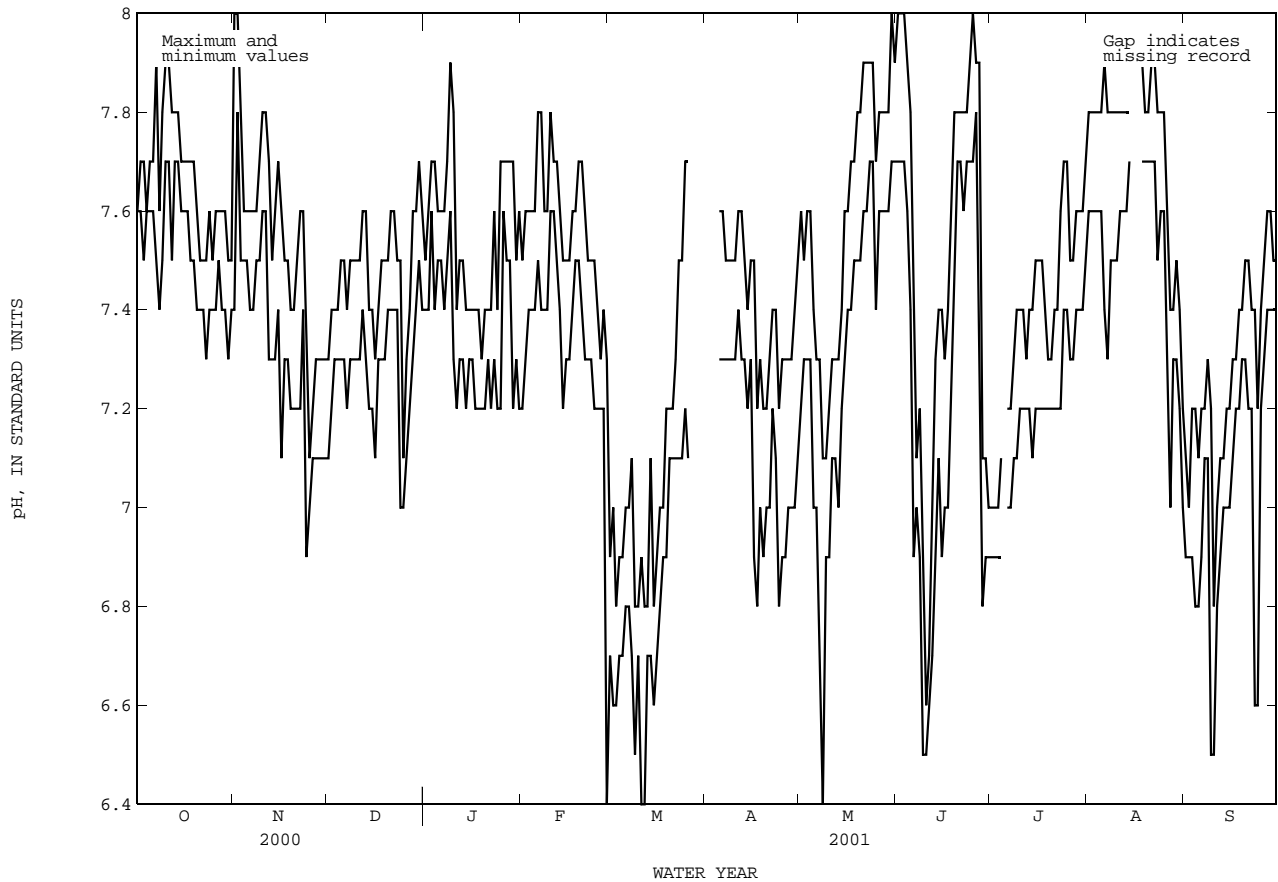
PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.6	7.6	8.0	7.4	7.3	7.1	7.5	7.4	7.5	7.2	6.9	6.7
2	7.7	7.6	8.0	7.8	7.4	7.2	7.6	7.4	7.6	7.3	7.0	6.6
3	7.7	7.5	7.8	7.5	7.4	7.3	7.7	7.6	7.6	7.4	6.8	6.6
4	7.6	7.6	7.6	7.5	7.4	7.3	7.7	7.4	7.6	7.4	6.9	6.7
5	7.7	7.6	7.6	7.5	7.5	7.3	7.6	7.5	7.6	7.4	6.9	6.7
6	7.7	7.6	7.6	7.4	7.5	7.3	7.6	7.5	7.8	7.5	7.0	6.8
7	7.9	7.5	7.6	7.4	7.4	7.2	7.6	7.4	7.8	7.4	7.0	6.8
8	7.6	7.4	7.6	7.5	7.5	7.3	7.7	7.5	7.6	7.4	7.1	6.7
9	7.8	7.5	7.7	7.5	7.5	7.3	7.9	7.6	7.6	7.4	6.8	6.5
10	7.9	7.7	7.8	7.6	7.5	7.3	7.8	7.3	7.8	7.6	6.8	6.7
11	7.9	7.7	7.8	7.6	7.5	7.3	7.4	7.2	7.7	7.6	6.9	6.4
12	7.8	7.5	7.7	7.3	7.6	7.4	7.5	7.3	7.7	7.5	6.8	6.4
13	7.8	7.7	7.5	7.3	7.6	7.3	7.5	7.3	7.6	7.4	6.8	6.7
14	7.8	7.7	7.6	7.3	7.4	7.2	7.4	7.2	7.5	7.2	7.1	6.7
15	7.7	7.6	7.7	7.4	7.4	7.2	7.4	7.3	7.5	7.3	6.8	6.6
16	7.7	7.6	7.6	7.1	7.3	7.1	7.4	7.3	7.5	7.3	6.9	6.7
17	7.7	7.6	7.5	7.3	7.4	7.3	7.4	7.2	7.6	7.4	7.0	6.8
18	7.7	7.5	7.5	7.3	7.5	7.3	7.4	7.2	7.6	7.5	7.0	6.9
19	7.7	7.5	7.4	7.2	7.5	7.3	7.3	7.2	7.7	7.5	7.2	6.9
20	7.6	7.4	7.4	7.2	7.5	7.4	7.4	7.2	7.7	7.4	7.2	7.1
21	7.5	7.4	7.5	7.2	7.6	7.4	7.4	7.3	7.6	7.3	7.2	7.1
22	7.5	7.4	7.6	7.2	7.6	7.4	7.4	7.2	7.5	7.3	7.3	7.1
23	7.5	7.3	7.6	7.4	7.5	7.4	7.6	7.3	7.5	7.3	7.5	7.1
24	7.6	7.4	7.4	6.9	7.5	7.0	7.4	7.2	7.5	7.2	7.5	7.1
25	7.5	7.4	7.1	7.0	7.1	7.0	7.7	7.2	7.4	7.2	7.7	7.2
26	7.6	7.4	7.2	7.1	7.3	7.1	7.7	7.6	7.3	7.2	7.7	7.1
27	7.6	7.5	7.3	7.1	7.4	7.2	7.7	7.5	7.4	7.2	---	---
28	7.6	7.4	7.3	7.1	7.6	7.3	7.7	7.5	7.3	6.4	---	---
29	7.6	7.4	7.3	7.1	7.6	7.4	7.7	7.2	---	---	---	---
30	7.5	7.3	7.3	7.1	7.7	7.5	7.5	7.3	---	---	---	---
31	7.5	7.4	---	---	7.6	7.4	7.6	7.2	---	---	---	---
MONTH	7.9	7.3	8.0	6.9	7.7	7.0	7.9	7.2	7.8	6.4	---	---

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.6	7.2	8.0	7.7	7.0	6.9	7.8	7.6	7.1	6.9
2	---	---	7.5	7.3	8.0	7.7	7.0	6.9	7.8	7.6	7.0	6.9
3	---	---	7.6	7.3	8.0	7.7	7.0	6.9	7.8	7.6	7.2	6.9
4	---	---	7.6	7.3	7.9	7.6	7.1	6.9	7.8	7.6	7.2	6.8
5	7.6	7.3	7.4	7.0	7.8	7.4	---	---	7.8	7.6	7.1	6.8
6	7.6	7.3	7.3	7.0	7.4	6.9	7.2	7.0	7.9	7.4	7.2	6.9
7	7.5	7.3	7.3	6.7	7.1	7.0	7.2	7.0	7.8	7.3	7.2	7.1
8	7.5	7.3	7.1	6.4	7.2	6.9	7.3	7.1	7.8	7.5	7.3	7.1
9	7.5	7.3	7.1	6.9	6.9	6.5	7.4	7.1	7.8	7.5	7.2	6.5
10	7.5	7.3	7.2	6.9	6.6	6.5	7.4	7.2	7.8	7.5	6.8	6.5
11	7.6	7.4	7.3	7.1	6.7	6.6	7.4	7.2	7.8	7.6	7.0	6.8
12	7.6	7.3	7.3	7.1	6.9	6.7	7.3	7.2	7.8	7.6	7.1	6.9
13	7.5	7.3	7.3	7.0	7.3	6.9	7.4	7.2	7.8	7.6	7.1	7.0
14	7.4	7.2	7.4	7.2	7.4	7.1	7.4	7.1	7.8	7.7	7.2	7.0
15	7.5	7.3	7.6	7.3	7.4	6.9	7.5	7.2	---	---	7.2	7.0
16	7.5	6.9	7.6	7.4	7.3	7.0	7.5	7.2	---	---	7.3	7.1
17	7.2	6.8	7.7	7.4	7.4	7.0	7.5	7.2	---	---	7.3	7.2
18	7.3	7.0	7.7	7.5	7.6	7.2	7.4	7.2	7.9	7.7	7.4	7.2
19	7.2	6.9	7.8	7.5	7.8	7.4	7.3	7.2	7.8	7.7	7.4	7.3
20	7.2	7.0	7.8	7.5	7.8	7.7	7.3	7.2	7.8	7.7	7.5	7.3
21	7.3	7.0	7.9	7.6	7.8	7.7	7.4	7.2	7.9	7.7	7.5	7.2
22	7.4	7.2	7.9	7.6	7.8	7.6	7.4	7.2	7.9	7.7	7.4	7.2
23	7.4	7.1	7.9	7.7	7.8	7.7	7.6	7.2	7.8	7.5	7.4	6.6
24	7.2	6.8	7.9	7.7	7.9	7.7	7.7	7.4	7.8	7.6	7.2	6.6
25	7.3	6.9	7.7	7.4	8.0	7.7	7.7	7.4	7.8	7.6	7.4	7.2
26	7.3	6.9	7.8	7.6	7.9	7.8	7.5	7.3	7.6	7.2	7.5	7.3
27	7.3	7.0	7.8	7.6	7.9	7.1	7.5	7.3	7.4	7.0	7.6	7.4
28	7.3	7.0	7.8	7.6	7.1	6.8	7.6	7.4	7.4	7.3	7.6	7.4
29	7.4	7.0	7.8	7.6	7.1	6.9	7.6	7.4	7.5	7.3	7.5	7.4
30	7.5	7.1	8.0	7.7	7.0	6.9	7.6	7.4	7.4	7.2	7.5	7.4
31	---	---	7.9	7.7	---	---	7.7	7.5	7.2	7.0	---	---
MONTH	---	---	8.0	6.4	8.0	6.5	---	---	---	---	7.6	6.5



SAN JACINTO RIVER BASIN

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

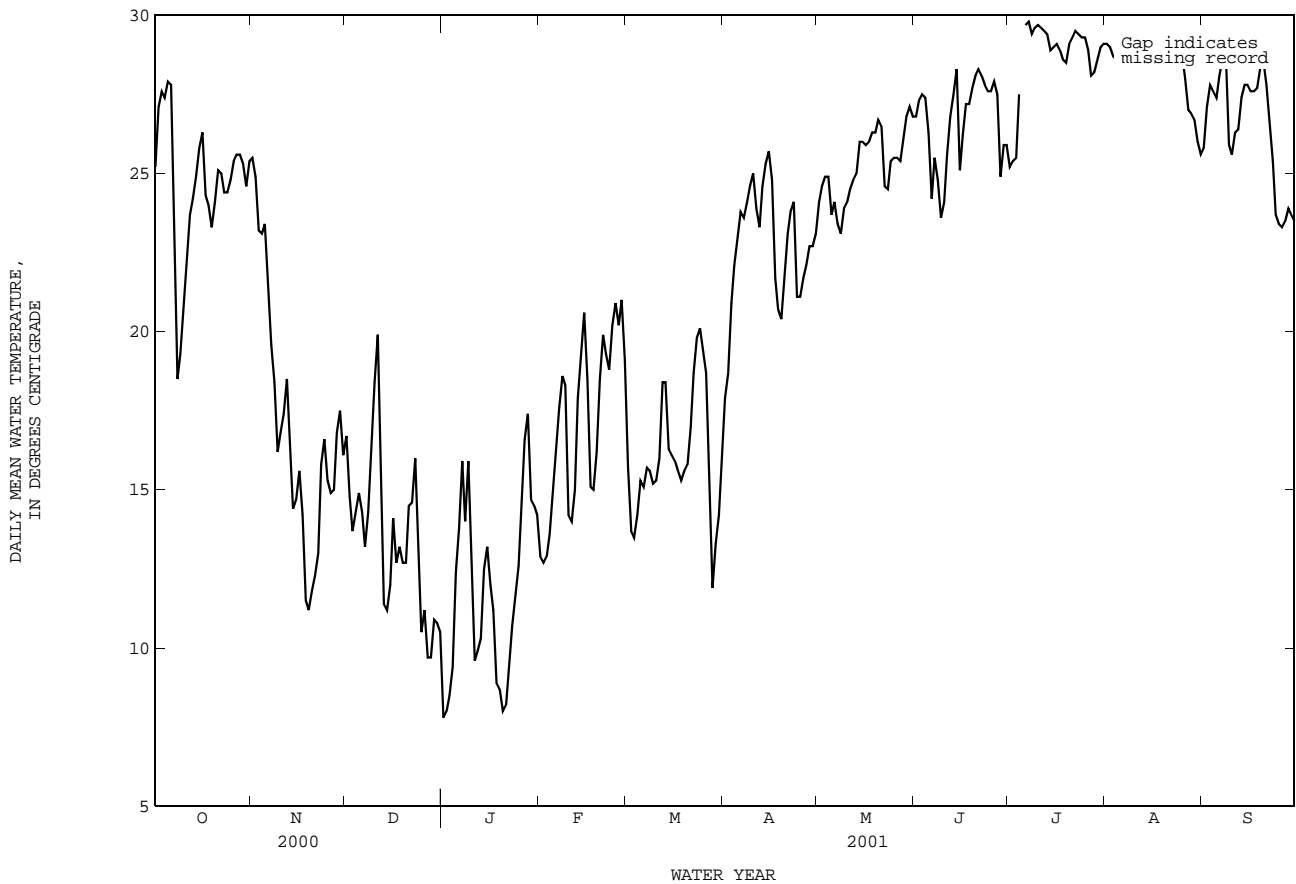
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.2	23.7	25.2	26.0	25.0	25.5	17.4	15.8	16.7	9.3	7.0	7.8
2	28.8	26.0	27.1	25.6	23.8	24.9	16.8	13.5	14.8	8.9	6.6	8.0
3	29.0	26.6	27.6	23.8	22.7	23.2	14.6	12.1	13.7	9.9	6.4	8.5
4	28.6	26.4	27.4	23.7	22.4	23.1	15.3	12.6	14.3	10.9	7.3	9.4
5	29.2	27.0	27.9	24.1	22.7	23.4	16.5	12.7	14.9	14.3	9.4	12.4
6	28.7	26.6	27.8	23.8	20.2	21.8	16.2	12.8	14.3	15.7	11.1	13.8
7	26.6	19.3	23.1	21.3	18.7	19.6	14.7	11.2	13.2	16.8	14.7	15.9
8	19.7	17.4	18.5	19.7	17.0	18.4	16.2	11.6	14.3	15.2	11.8	14.0
9	20.4	17.6	19.3	17.6	14.1	16.2	18.4	14.1	16.3	21.8	11.2	15.9
10	21.4	19.0	20.6	18.2	14.3	16.8	19.9	16.7	18.4	17.5	9.2	12.9
11	24.2	20.9	22.2	18.8	15.3	17.4	21.8	17.9	19.9	10.3	9.0	9.6
12	25.2	22.9	23.7	20.6	16.7	18.5	17.9	13.7	15.5	10.5	9.3	9.9
13	26.1	22.7	24.2	18.0	15.2	16.1	15.6	8.4	11.4	11.5	9.4	10.3
14	26.4	23.9	24.9	15.6	12.2	14.4	13.0	9.6	11.2	14.5	10.8	12.5
15	26.9	25.0	25.8	16.3	12.8	14.7	13.0	10.8	12.0	14.2	11.9	13.2
16	27.2	25.7	26.3	16.6	14.6	15.6	15.4	12.8	14.1	13.8	11.3	12.0
17	26.6	22.4	24.3	15.7	13.3	14.2	14.5	10.6	12.7	11.5	10.2	11.2
18	25.0	22.7	24.0	13.3	10.2	11.5	14.3	11.3	13.2	10.2	8.2	8.9
19	24.5	22.1	23.3	13.0	9.7	11.2	14.0	10.4	12.7	10.1	7.9	8.7
20	25.6	23.1	24.1	14.2	9.6	11.8	14.7	10.3	12.7	10.3	5.9	8.0
21	25.8	24.4	25.1	14.1	10.2	12.3	15.7	12.4	14.5	9.6	6.6	8.2
22	25.7	23.8	25.0	15.3	10.6	13.0	16.4	12.2	14.6	11.6	7.2	9.4
23	25.5	23.2	24.4	17.8	14.0	15.8	17.6	14.2	16.0	14.9	7.6	10.7
24	25.4	23.2	24.4	17.8	14.9	16.6	17.6	9.9	13.7	13.5	9.6	11.7
25	25.8	24.0	24.8	17.0	14.1	15.3	11.4	9.8	10.5	14.3	10.5	12.6
26	26.1	24.8	25.4	16.8	13.2	14.9	11.8	10.5	11.2	16.3	12.6	14.7
27	26.7	24.7	25.6	17.4	12.7	15.0	11.4	9.2	9.7	18.0	15.2	16.6
28	26.3	25.0	25.6	18.6	15.2	16.8	11.8	7.9	9.7	18.3	16.3	17.4
29	26.0	24.7	25.3	18.6	16.9	17.5	11.9	8.9	10.9	18.3	12.7	14.7
30	25.6	23.6	24.6	17.0	14.8	16.1	12.3	8.3	10.8	17.1	12.3	14.5
31	26.5	24.6	25.4	---	---	---	12.0	8.6	10.5	15.5	12.8	14.2
MONTH	29.2	17.4	24.6	26.0	9.6	17.1	21.8	7.9	13.5	21.8	5.9	11.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY		MARCH			APRIL			MAY		
1	13.9	11.6	12.9	17.1	15.0	15.7	20.8	15.1	17.9	25.6	22.6	24.1
2	13.4	11.5	12.7	15.0	13.1	13.7	20.1	17.2	18.7	25.7	23.4	24.6
3	14.5	10.8	12.9	14.0	12.9	13.5	22.7	19.5	20.9	26.2	23.7	24.9
4	15.5	11.1	13.6	17.4	11.5	14.2	22.8	20.8	22.1	25.5	24.3	24.9
5	16.2	12.2	14.7	18.7	12.3	15.3	24.3	21.7	23.0	24.6	21.9	23.7
6	20.3	13.1	16.0	17.4	12.9	15.1	24.8	22.7	23.8	25.4	22.8	24.1
7	20.2	15.6	17.6	18.7	12.8	15.7	24.3	22.7	23.6	26.0	21.4	23.4
8	19.6	17.6	18.6	17.6	14.3	15.6	25.5	22.9	24.1	25.1	21.1	23.1
9	19.6	16.1	18.3	17.0	13.8	15.2	25.7	23.7	24.6	26.0	22.0	23.9
10	16.1	12.2	14.2	18.0	12.8	15.3	25.9	24.1	25.0	26.6	22.0	24.1
11	15.0	12.7	14.0	16.7	15.4	16.0	25.1	23.0	23.9	26.4	22.8	24.5
12	17.1	12.8	15.0	21.1	16.5	18.4	24.5	22.4	23.3	27.0	23.1	24.8
13	19.2	16.3	17.9	21.1	15.7	18.4	25.8	23.8	24.6	27.5	22.9	25.0
14	20.4	18.3	19.3	18.9	11.6	16.3	26.8	24.4	25.3	27.7	24.2	26.0
15	21.4	19.4	20.6	19.1	13.9	16.1	27.3	24.6	25.7	27.6	24.2	26.0
16	21.1	16.3	18.5	19.0	13.2	15.9	26.8	22.9	24.8	27.2	24.4	25.9
17	16.3	13.2	15.1	17.6	13.7	15.6	22.9	20.4	21.7	27.1	24.9	26.0
18	16.6	12.6	15.0	17.7	13.0	15.3	23.4	18.6	20.7	27.9	25.1	26.3
19	17.7	14.2	16.2	17.1	14.1	15.6	22.0	18.7	20.4	27.6	25.1	26.3
20	20.0	16.7	18.5	18.0	13.2	15.8	23.2	20.3	21.7	28.6	25.5	26.7
21	20.7	19.1	19.9	19.2	14.4	17.0	25.3	21.1	23.1	28.1	24.8	26.5
22	20.5	18.4	19.3	20.7	16.2	18.7	24.6	23.1	23.8	26.7	22.9	24.6
23	19.4	17.6	18.8	21.2	17.9	19.8	25.4	22.8	24.1	27.2	22.3	24.5
24	21.4	19.2	20.2	20.7	19.2	20.1	22.8	20.0	21.1	27.8	23.5	25.4
25	22.3	19.8	20.9	20.7	18.0	19.4	24.2	18.5	21.1	26.9	23.9	25.5
26	20.6	19.4	20.2	19.7	16.9	18.7	24.5	18.9	21.7	26.7	24.7	25.5
27	22.8	19.4	21.0	19.2	10.7	15.2	24.3	19.6	22.1	27.4	24.1	25.4
28	21.6	17.1	19.1	12.8	10.8	11.9	24.9	20.3	22.7	27.9	24.9	26.1
29	---	---	---	14.3	12.6	13.3	24.1	20.8	22.7	28.9	25.5	26.8
30	---	---	---	16.8	11.8	14.2	24.4	21.4	23.1	28.6	26.0	27.1
31	---	---	---	18.9	13.4	16.0	---	---	---	27.7	26.0	26.8
MONTH	22.8	10.8	17.2	21.2	10.7	16.0	27.3	15.1	22.7	28.9	21.1	25.2

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.9	25.3	26.8	26.3	24.6	25.2	30.9	27.6	29.1	26.7	25.1	25.8
2	29.2	26.0	27.3	27.4	23.8	25.4	30.3	27.9	29.0	28.6	25.9	27.1
3	29.2	26.3	27.5	27.3	24.7	25.5	30.4	27.4	28.7	29.0	26.5	27.8
4	28.9	26.3	27.4	29.1	24.9	27.5	30.4	27.1	28.6	28.5	26.5	27.6
5	27.7	23.7	26.3	30.8	26.5	---	30.5	27.6	28.9	28.7	26.3	27.4
6	26.0	22.9	24.2	31.4	28.0	29.7	30.3	27.9	29.0	29.7	26.5	28.1
7	26.0	24.8	25.5	30.9	28.6	29.8	29.8	27.5	28.5	29.8	27.2	28.6
8	26.0	23.5	24.8	30.8	28.2	29.4	29.9	27.4	28.5	29.9	27.8	28.8
9	23.8	23.3	23.6	31.4	28.0	29.6	30.8	27.9	29.0	29.3	24.0	25.9
10	25.4	23.3	24.1	30.6	28.5	29.7	30.8	28.0	29.2	27.5	23.8	25.6
11	27.7	23.6	25.6	30.9	28.5	29.6	30.8	28.0	29.2	28.1	24.7	26.3
12	28.9	24.8	26.8	30.9	28.3	29.5	30.8	28.1	29.3	28.3	24.7	26.4
13	29.3	25.9	27.5	31.1	28.1	29.4	29.6	28.2	28.9	28.8	25.9	27.4
14	30.0	27.0	28.3	29.8	28.1	28.9	30.1	27.6	28.7	29.4	26.1	27.8
15	29.1	22.1	25.1	30.7	27.8	29.0	---	---	---	28.9	26.4	27.8
16	28.2	24.3	26.2	30.7	27.8	29.1	---	---	---	28.5	26.6	27.6
17	29.3	25.3	27.2	30.4	27.7	28.9	---	---	---	28.7	26.6	27.6
18	29.4	25.1	27.2	29.9	27.6	28.6	31.0	28.2	29.4	28.9	26.6	27.7
19	29.7	25.7	27.7	29.9	27.5	28.5	29.7	28.3	28.9	29.6	27.3	28.3
20	29.6	26.5	28.1	30.5	28.1	29.1	30.5	27.4	28.8	29.9	27.7	28.6
21	29.8	27.0	28.3	30.8	28.0	29.3	30.1	27.7	28.9	29.4	26.9	27.8
22	29.9	26.1	28.1	31.0	28.3	29.5	30.3	27.5	28.8	27.6	25.8	26.7
23	29.0	26.5	27.8	30.9	28.4	29.4	30.5	27.4	28.8	26.9	23.6	25.4
24	28.9	26.3	27.6	30.9	28.0	29.3	30.3	27.9	29.0	24.2	23.3	23.7
25	29.1	26.2	27.6	30.9	28.2	29.3	30.3	27.6	28.8	24.6	22.0	23.4
26	29.5	26.8	27.9	29.3	28.3	28.9	28.9	27.1	28.0	24.8	21.3	23.3
27	29.8	23.0	27.5	28.6	27.7	28.1	27.6	26.1	27.0	25.3	21.6	23.5
28	27.7	22.7	24.9	29.6	27.2	28.2	27.6	26.3	26.9	26.0	21.9	23.9
29	27.5	24.4	25.9	30.2	27.5	28.6	27.1	26.3	26.7	25.4	22.1	23.7
30	27.6	24.6	25.9	30.6	27.7	29.0	26.6	24.9	26.0	24.9	22.6	23.5
31	---	---	---	30.8	27.7	29.1	26.2	24.9	25.6	---	---	---
MONTH	30.0	22.1	26.6	31.4	23.8	---	---	---	---	29.9	21.3	26.4



SAN JACINTO RIVER BASIN

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

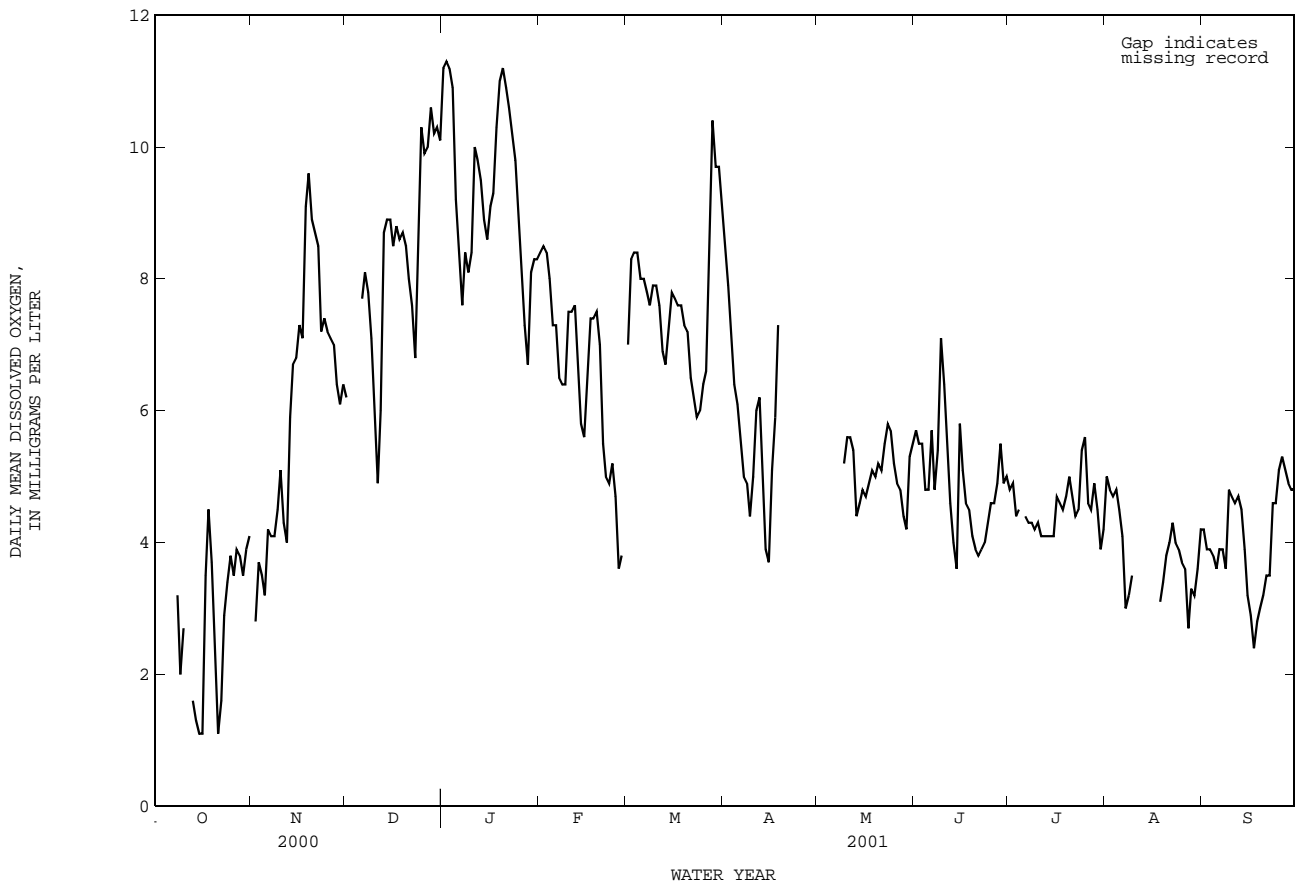
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.6	5.9	6.2	11.4	10.7	11.2
2	---	---	---	4.7	1.7	2.8	---	---	---	12.0	10.7	11.3
3	---	---	---	4.7	3.0	3.7	---	---	---	11.6	10.5	11.2
4	---	---	---	4.1	3.2	3.5	---	---	---	11.6	9.9	10.9
5	---	---	---	3.9	2.8	3.2	---	---	---	10.1	8.4	9.2
6	---	---	---	5.3	2.9	4.2	8.9	6.3	7.7	9.2	7.8	8.5
7	---	---	---	4.7	3.6	4.1	8.6	7.6	8.1	8.0	7.3	7.6
8	4.2	1.6	3.2	5.0	3.2	4.1	8.3	7.1	7.8	8.9	7.9	8.4
9	3.0	.9	2.0	5.5	2.1	4.5	7.7	5.6	7.1	10.2	6.7	8.1
10	3.7	1.9	2.7	6.2	2.9	5.1	6.6	5.3	5.9	10.5	6.7	8.4
11	---	---	---	5.3	2.1	4.3	5.3	4.3	4.9	10.3	9.7	10.0
12	---	---	---	6.3	1.6	4.0	6.8	4.9	6.0	10.1	9.7	9.8
13	2.2	1.1	1.6	6.3	5.4	5.9	10.7	5.3	8.7	9.7	9.0	9.5
14	1.9	.6	1.3	7.2	6.2	6.7	9.4	8.2	8.9	9.2	8.6	8.9
15	1.6	.5	1.1	7.2	6.0	6.8	9.5	8.0	8.9	8.9	8.3	8.6
16	1.5	.8	1.1	8.9	5.2	7.3	9.1	7.6	8.5	9.5	8.5	9.1
17	4.4	1.2	3.5	7.6	6.5	7.1	9.4	8.1	8.8	9.9	9.0	9.3
18	5.2	4.1	4.5	10.3	7.2	9.1	9.1	8.1	8.6	10.9	9.3	10.3
19	4.2	2.7	3.7	10.3	8.7	9.6	9.4	7.9	8.7	11.2	10.7	11.0
20	3.4	1.3	2.3	9.4	8.3	8.9	9.6	7.7	8.5	11.7	10.8	11.2
21	2.0	.5	1.1	8.9	8.4	8.7	8.7	7.4	8.0	11.3	10.7	10.9
22	3.3	.7	1.6	9.6	8.0	8.5	8.5	6.7	7.6	10.9	10.2	10.6
23	3.6	2.2	2.9	8.0	6.5	7.2	7.9	5.8	6.8	10.7	9.2	10.2
24	4.0	2.6	3.4	7.9	6.9	7.4	10.8	5.3	8.2	10.3	9.3	9.8
25	4.3	3.4	3.8	7.5	6.8	7.2	10.7	9.5	10.3	9.5	8.5	9.0
26	3.9	2.7	3.5	7.5	6.7	7.1	10.3	9.3	9.9	8.7	7.7	8.2
27	4.8	3.3	3.9	7.5	6.5	7.0	10.6	9.3	10.0	7.7	6.8	7.3
28	4.4	3.2	3.8	6.7	6.1	6.4	11.2	9.8	10.6	7.0	6.5	6.7
29	4.4	3.0	3.5	6.8	5.7	6.1	10.9	9.4	10.2	9.2	6.2	8.1
30	4.6	3.2	3.9	6.9	5.9	6.4	11.2	9.9	10.3	9.2	7.5	8.3
31	5.0	3.6	4.1	---	---	---	11.1	9.6	10.1	9.4	7.3	8.3
MONTH	---	---	---	---	---	---	---	---	---	12.0	6.2	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.9	7.7	8.4	7.6	6.3	7.0	9.1	7.4	8.5	---	---	---
2	8.9	8.2	8.5	9.1	6.8	8.3	8.1	7.6	7.9	---	---	---
3	8.9	7.9	8.4	8.6	8.1	8.4	7.7	6.5	7.1	---	---	---
4	8.4	7.2	8.0	9.3	7.3	8.4	6.8	6.0	6.4	---	---	---
5	7.9	5.2	7.3	8.8	7.1	8.0	6.5	5.7	6.1	---	---	---
6	7.9	6.1	7.3	8.7	7.1	8.0	5.8	4.9	5.5	---	---	---
7	7.4	4.7	6.5	8.3	7.0	7.8	5.6	4.5	5.0	---	---	---
8	6.8	6.0	6.4	9.1	7.0	7.6	5.6	4.3	4.9	---	---	---
9	7.3	5.4	6.4	8.4	7.2	7.9	5.2	3.6	4.4	6.1	4.6	5.2
10	8.2	6.8	7.5	8.9	7.2	7.9	6.3	4.1	5.0	6.2	5.0	5.6
11	7.9	7.2	7.5	8.9	6.9	7.6	6.8	4.6	6.0	6.1	5.2	5.6
12	8.0	7.1	7.6	7.6	6.0	6.9	6.9	5.1	6.2	6.1	5.0	5.4
13	7.2	6.0	6.6	7.7	5.9	6.7	6.6	3.6	5.1	5.1	3.8	4.4
14	6.5	5.0	5.8	10.2	4.8	7.2	4.9	2.3	3.9	5.0	3.9	4.6
15	6.2	4.8	5.6	8.3	6.8	7.8	5.5	2.2	3.7	5.4	4.2	4.8
16	7.8	4.6	6.6	8.6	6.9	7.7	7.4	4.0	5.1	5.5	4.0	4.7
17	7.9	7.0	7.4	8.2	7.0	7.6	7.3	4.8	5.9	5.7	4.1	4.9
18	8.3	4.6	7.4	8.1	7.0	7.6	8.0	6.6	7.3	5.8	4.2	5.1
19	8.0	7.0	7.5	7.5	7.1	7.3	---	---	---	6.1	4.1	5.0
20	7.8	6.3	7.0	7.8	6.4	7.2	---	---	---	6.5	4.3	5.2
21	6.4	4.2	5.5	7.1	5.9	6.5	---	---	---	6.4	3.8	5.1
22	5.6	4.1	5.0	6.6	5.6	6.2	---	---	---	7.1	4.2	5.5
23	6.1	2.7	4.9	6.7	5.5	5.9	---	---	---	7.6	3.7	5.8
24	5.9	3.6	5.2	6.4	5.6	6.0	---	---	---	7.6	4.3	5.7
25	5.3	4.1	4.7	7.0	5.9	6.4	---	---	---	5.9	4.3	5.2
26	4.3	2.7	3.6	7.3	6.0	6.6	---	---	---	5.8	4.1	4.9
27	4.5	2.9	3.8	11.7	6.3	8.6	---	---	---	6.4	3.5	4.8
28	---	---	---	11.1	9.7	10.4	---	---	---	6.1	3.4	4.4
29	---	---	---	10.2	9.2	9.7	---	---	---	5.8	2.9	4.2
30	---	---	---	10.6	8.8	9.7	---	---	---	7.5	3.8	5.3
31	---	---	---	9.8	8.3	9.1	---	---	---	8.0	4.0	5.5
MONTH	---	---	---	11.7	4.8	7.7	---	---	---	---	---	---

08068400 Panther Branch at Gosling Road, The Woodlands, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	7.8	4.2	5.7	5.2	4.4	4.8	7.8	3.7	5.0	4.6	3.8	4.2
2	7.7	4.5	5.5	5.5	4.4	4.9	7.1	3.6	4.8	4.4	3.6	3.9
3	7.6	4.5	5.5	5.2	4.2	4.4	7.1	3.5	4.7	4.6	3.4	3.9
4	6.6	4.1	4.8	5.1	4.0	4.5	7.1	3.5	4.8	5.2	3.0	3.8
5	6.4	3.4	4.8	---	---	---	6.4	3.3	4.5	4.9	2.8	3.6
6	6.8	4.5	5.7	4.7	4.1	4.4	6.1	3.0	4.1	4.5	3.3	3.9
7	5.3	4.2	4.8	4.6	4.0	4.3	4.7	1.9	3.0	4.7	3.4	3.9
8	7.7	4.5	5.4	5.0	3.9	4.3	4.7	2.4	3.2	4.2	2.9	3.6
9	7.7	6.8	7.1	4.8	3.8	4.2	5.2	2.7	3.5	6.6	2.4	4.8
10	6.8	5.6	6.4	4.9	3.8	4.3	---	---	---	5.3	4.1	4.7
11	5.9	4.4	5.5	5.2	3.4	4.1	---	---	---	5.5	3.7	4.6
12	5.3	3.8	4.6	4.9	3.5	4.1	---	---	---	5.5	3.7	4.7
13	4.6	3.6	4.0	5.2	3.5	4.1	---	---	---	4.9	3.6	4.5
14	4.3	3.1	3.6	5.1	3.5	4.1	---	---	---	4.4	3.2	3.9
15	7.4	3.3	5.8	5.2	3.4	4.1	---	---	---	3.5	2.7	3.2
16	5.7	4.2	5.1	6.1	4.1	4.7	---	---	---	3.4	2.5	2.9
17	5.4	4.1	4.6	5.9	3.8	4.6	---	---	---	2.9	1.9	2.4
18	5.6	3.8	4.5	6.2	3.8	4.5	4.7	1.6	3.1	3.8	2.2	2.8
19	4.8	3.6	4.1	6.1	3.8	4.7	4.9	2.6	3.4	3.8	2.5	3.0
20	4.5	3.5	3.9	6.5	4.1	5.0	5.8	2.7	3.8	4.3	2.6	3.2
21	4.1	3.3	3.8	6.2	3.8	4.7	5.5	3.1	4.0	4.9	2.8	3.5
22	4.2	3.4	3.9	6.7	3.3	4.4	6.4	3.4	4.3	4.5	2.7	3.5
23	4.6	3.4	4.0	6.8	3.1	4.5	5.9	2.8	4.0	7.3	3.1	4.6
24	5.1	3.7	4.3	7.6	4.2	5.4	5.9	2.9	3.9	5.1	4.0	4.6
25	5.4	4.1	4.6	8.4	4.5	5.6	5.4	2.8	3.7	5.6	4.6	5.1
26	5.0	4.1	4.6	6.1	3.3	4.6	5.4	2.7	3.6	5.9	4.9	5.3
27	6.9	3.8	4.9	6.2	3.4	4.5	3.2	2.0	2.7	6.0	4.7	5.1
28	6.6	4.5	5.5	6.8	4.0	4.9	3.8	2.7	3.3	5.9	3.4	4.9
29	5.7	4.4	4.9	6.9	3.5	4.5	3.7	2.7	3.2	5.7	4.1	4.8
30	5.8	4.6	5.0	6.2	2.5	3.9	4.1	2.7	3.6	5.9	4.2	4.8
31	---	---	---	6.3	2.8	4.2	5.0	3.6	4.2	---	---	---
MONTH	7.8	3.1	4.9	---	---	---	---	---	---	7.3	1.9	4.1



SAN JACINTO RIVER BASIN

08068450 Panther Branch near Spring, TX

LOCATION.--Lat 30°07'51", long 95°28'52", Montgomery County, Hydrologic Unit 12040102, on right bank at downstream side of bridge on Sawdust Road, 3.0 mi upstream from Spring Creek, and 5.1 mi northwest of Spring.

DRAINAGE AREA.--34.5 mi².

PERIOD OF RECORD.--Apr. 1972 to Sept. 1976 (daily mean discharge). Apr. 1980 to Sept. 1988 (annual maximum). Aug. 1999 to current year (daily mean discharge). Aug. to Sept. 1999, data unreliable and not published.

Water-quality records.--Chemical data: May 1972 to Sept. 1975, Mar. 1999 to Nov. 1999. Biochemical data: May 1972 to Sept. 1975, Mar. 1999 to Nov. 1999. Pesticide data: May 1972 to Sept. 1975, Mar. 1999 to Nov. 1999. Sediment data: Oct. 1973 to Aug. 1976.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 1999, gage located 300 ft upstream at datum 98.69 ft above sea level. Satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	14	55	72	67	178	56	13	10	207	10	78
2	8.9	15	50	55	52	473	38	13	10	180	9.7	64
3	9.9	69	31	44	43	696	30	13	9.7	99	8.7	36
4	9.5	132	26	39	33	314	23	12	10	78	8.9	69
5	10	76	23	32	24	142	20	30	22	60	9.0	70
6	14	142	27	25	20	89	17	33	532	38	11	41
7	23	93	32	26	21	59	17	86	245	26	17	23
8	38	44	25	28	20	149	16	190	982	21	12	18
9	19	29	22	23	23	606	15	135	9660	17	10	389
10	14	21	20	57	20	189	15	85	1600	15	9.3	343
11	11	19	20	264	17	302	14	52	589	13	8.6	93
12	10	41	19	114	17	654	14	84	246	13	8.3	56
13	9.8	97	32	71	18	248	15	120	111	12	8.6	39
14	10	48	48	62	19	216	14	31	63	11	9.3	31
15	11	27	31	46	19	491	13	20	568	12	17	25
16	11	167	31	55	24	189	43	15	419	12	20	22
17	17	167	23	89	25	103	112	14	135	11	26	20
18	24	248	21	233	19	70	61	12	73	11	66	19
19	19	368	18	315	17	42	36	12	40	11	26	18
20	10	110	18	130	18	28	25	12	25	11	18	17
21	10	57	19	84	17	22	19	13	19	11	14	16
22	14	37	15	56	18	19	16	12	21	11	12	23
23	24	33	15	47	17	18	36	9.0	18	11	11	254
24	20	815	44	41	17	18	146	9.2	15	11	9.9	277
25	15	265	247	28	18	17	76	11	14	11	9.6	53
26	13	117	103	28	16	15	45	13	13	11	12	30
27	12	76	73	26	16	157	30	12	13	12	24	23
28	11	49	57	22	74	717	20	12	276	13	18	19
29	13	47	44	257	---	287	16	12	206	12	16	17
30	17	58	36	178	---	141	14	11	220	11	19	16
31	15	---	31	89	---	88	---	10	---	11	57	---
TOTAL	451.8	3481	1256	2636	709	6737	1012	1106.2	16164.7	983	515.9	2199
MEAN	14.6	116	40.5	85.0	25.3	217	33.7	35.7	539	31.7	16.6	73.3
MAX	38	815	247	315	74	717	146	190	9660	207	66	389
MIN	8.7	14	15	22	16	15	13	9.0	9.7	11	8.3	16
AC-FT	896	6900	2490	5230	1410	13360	2010	2190	32060	1950	1020	4360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001h, BY WATER YEAR (WY)

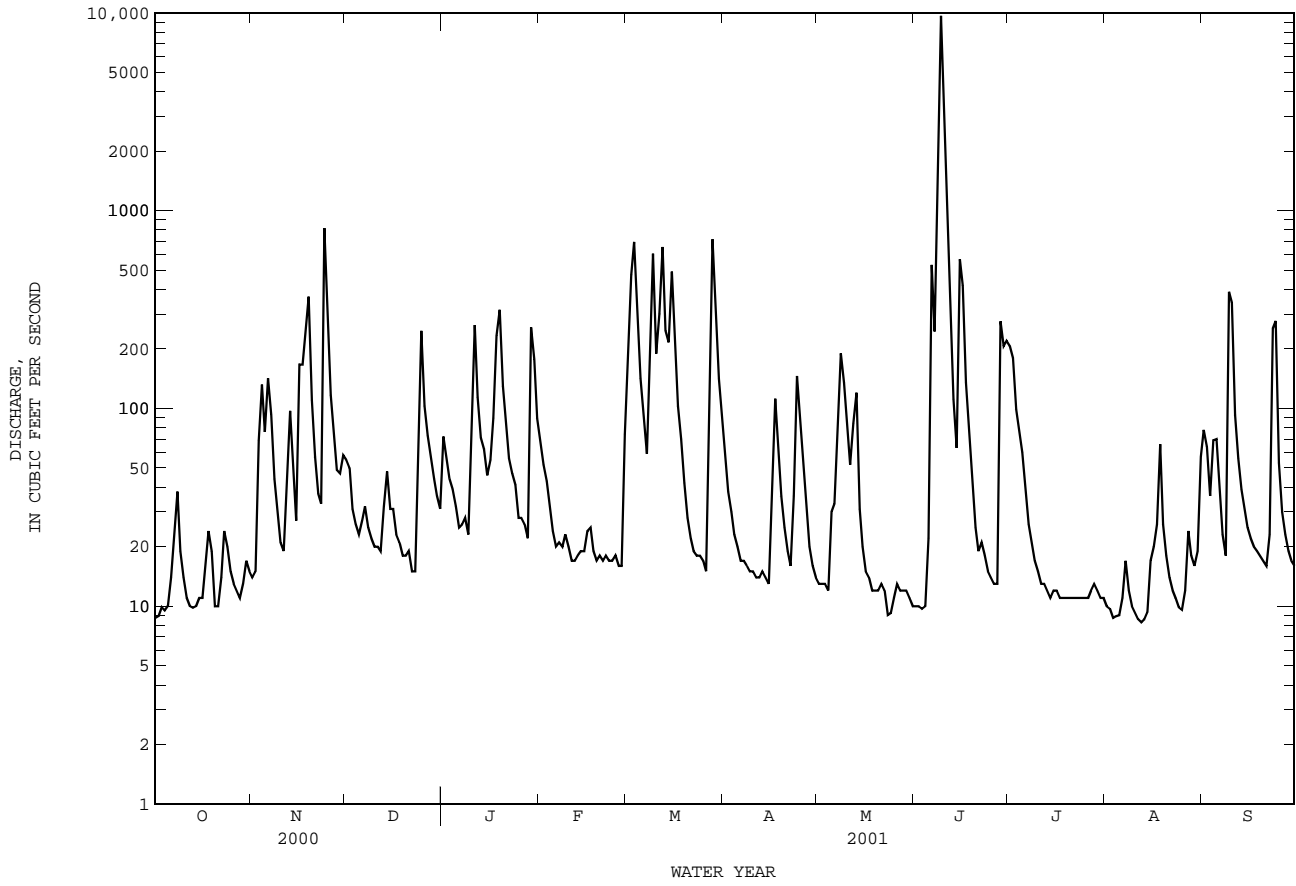
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	28.6	47.1	32.7	51.8	24.3	56.9	49.3	44.1	104	9.24	5.23	33.1																		
MAX	126	132	79.9	165	59.3	217	133	110	539	31.7	16.6	92.0																		
(WY)	1974	1975	1975	1974	1975	2001	1973	1972	2001	2001	2001	1973																		
MIN	2.13	3.43	1.70	1.34	.45	2.44	.85	1.35	1.04	.000	.17	.15																		
(WY)	1973	1976	1973	1976	1976	1976	1974	1974	1974	1974	1976	1972																		

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1972 - 2001h	
ANNUAL TOTAL	12386.8		37251.6			
ANNUAL MEAN	33.8		102		42.1	
HIGHEST ANNUAL MEAN					102	
LOWEST ANNUAL MEAN					7.04	
HIGHEST DAILY MEAN	815	Nov 24	9660	Jun 9	9660	Jun 9 2001
LOWEST DAILY MEAN	6.4	Jul 15	8.3	Aug 12	.00	Jun 10 1972
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 14	9.4	Aug 8	.00	Jun 28 1972
MAXIMUM PEAK FLOW			15900	Jun 9	15900	Jun 9 2001
MAXIMUM PEAK STAGE			119.17	Jun 9	119.17	Jun 9 2001
ANNUAL RUNOFF (AC-FT)	24570		73890		30510	
10 PERCENT EXCEEDS	65		206		66	
50 PERCENT EXCEEDS	12		23		7.0	
90 PERCENT EXCEEDS	7.7		11		.01	

h see PERIOD OF RECORD paragraph.

08068450 Panther Branch near Spring, TX--Continued



SAN JACINTO RIVER BASIN

08068500 Spring Creek near Spring, TX

LOCATION.--Lat 30°06'37", long 95°26'10", Harris-Montgomery County line, Hydrologic Unit 12040102, near right bank at downstream side of the northbound feeder road of Interstate Highway 45, 0.85 mi upstream from Missouri Pacific Railroad bridge, 2.4 mi northeast of Spring, Harris County, and 4.0 mi downstream from Willow Creek.

DRAINAGE AREA.--409 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr. 1939 to current year. From 1975 to 1995 published as "Spring Creek at Spring" (station 08068520).

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 72.6 ft above sea level. Prior to Jan. 5, 1946, nonrecording gage, and Jan. 6, 1946, to Feb. 19, 1965, water-stage recorder at datum 5.5 ft higher. Feb. 16, 1976, to Sept. 30, 1995, water-stage recorder at former site 3.6 mi downstream at datum 10.43 ft lower; unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1879, 34.3 ft, May 30, 1929, from floodmarks identified by local residents, discharge, 48,300 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

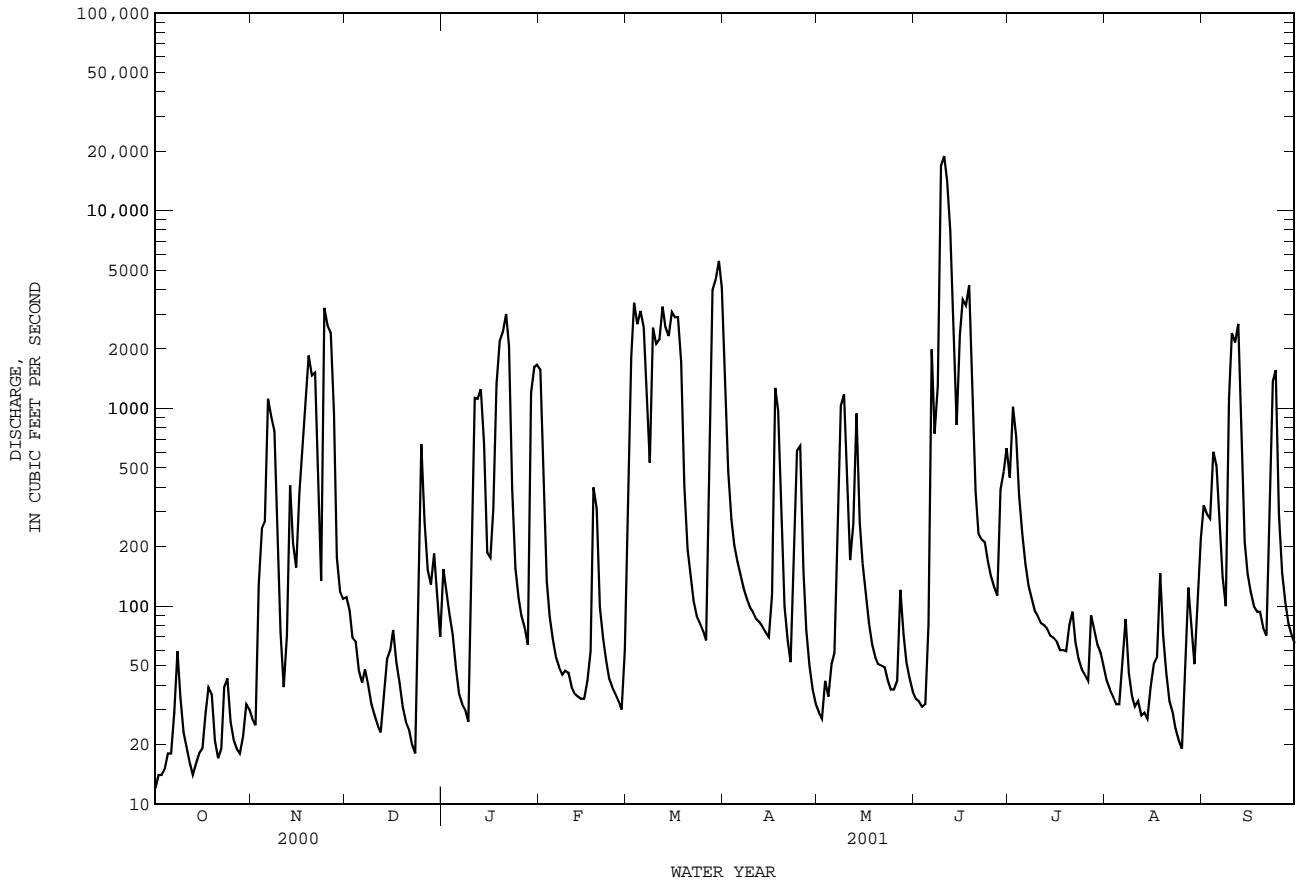
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	27	111	154	1570	403	1500	29	34	447	42	323
2	14	25	95	118	403	1810	482	27	33	1020	38	293
3	14	129	69	91	134	3430	276	42	31	718	35	278
4	15	247	66	72	89	2670	204	35	32	365	32	603
5	18	267	47	49	68	3110	168	51	81	233	32	511
6	18	1120	41	36	55	2580	143	58	1990	163	51	269
7	29	911	48	32	49	1020	122	273	745	126	86	141
8	59	768	40	30	45	531	108	1030	1300	109	46	100
9	35	252	32	26	47	2560	99	1180	16900	95	35	1120
10	23	74	28	109	46	2120	93	412	18900	89	31	2400
11	19	39	25	1130	39	2230	86	171	14300	82	33	2160
12	16	71	23	1120	36	3270	83	261	7880	80	28	2680
13	14	407	36	1250	35	2570	79	943	3200	77	29	932
14	16	209	54	663	34	2320	74	266	824	71	27	212
15	18	157	60	187	34	3070	70	165	2360	69	39	147
16	19	374	76	176	42	2900	114	115	3570	66	51	118
17	29	680	52	311	59	2900	1270	82	3320	60	55	100
18	39	1120	41	1330	399	1720	979	64	4210	60	146	94
19	36	1850	31	2190	313	403	264	55	1730	59	72	94
20	21	1470	26	2450	99	195	100	51	383	80	46	78
21	17	1520	24	3000	69	139	67	50	234	94	33	71
22	19	532	20	2070	54	106	52	49	218	66	29	305
23	39	134	18	389	43	89	208	42	211	54	24	1370
24	43	3220	65	156	39	82	610	38	167	48	21	1560
25	26	2640	660	110	36	75	645	38	142	45	19	292
26	21	2420	270	89	33	67	153	42	125	42	58	148
27	19	955	153	78	30	619	76	121	113	90	124	105
28	18	177	129	64	60	3980	50	72	390	76	78	81
29	22	119	185	1200	---	4490	38	52	480	64	51	72
30	32	109	118	1620	---	5570	32	43	630	58	94	65
31	30	---	70	1660	---	4090	---	37	---	50	220	---
TOTAL	750	22023	2713	21960	3960	61119	8245	5894	84533	4756	1705	16722
MEAN	24.2	734	87.5	708	141	1972	275	190	2818	153	55.0	557
MAX	59	3220	660	3000	1570	5570	1500	1180	18900	1020	220	2680
MIN	12	25	18	26	30	67	32	27	31	42	19	65
AC-FT	1490	43680	5380	43560	7850	121200	16350	11690	167700	9430	3380	33170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	214	298	238	345	354	264	341	347	325	90.9	70.8	131
MAX	5189	2982	1949	1710	1932	1972	2106	1541	2818	577	1208	1184
(WY)	1995	1999	1941	1979	1992	2001	1979	1993	2001	1946	1945	1979
MIN	3.06	3.55	8.88	4.52	13.1	11.6	13.2	9.10	6.57	5.58	2.84	3.86
(WY)	1957	1957	1957	1957	1957	1971	1971	1956	1971	1956	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1939 - 2001
ANNUAL TOTAL	57932	234380	
ANNUAL MEAN	158	642	252
HIGHEST ANNUAL MEAN			819
LOWEST ANNUAL MEAN			13.4
HIGHEST DAILY MEAN	4510	May 21	18900
LOWEST DAILY MEAN	11	Jul 15	12
ANNUAL SEVEN-DAY MINIMUM	12	Jul 11	17
MAXIMUM PEAK FLOW		20400	Jun 9
MAXIMUM PEAK STAGE		29.65	Jun 9
ANNUAL RUNOFF (AC-FT)	114900	464900	182500
10 PERCENT EXCEEDS	267	2020	429
50 PERCENT EXCEEDS	24	90	43
90 PERCENT EXCEEDS	14	28	12

08068500 Spring Creek near Spring, TX--Continued



08068500 Spring Creek near Spring, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Aug. 1983 to Sept. 1999.
 BIOCHEMICAL DATA: Aug. 1983 to Nov. 1999.
 PESTICIDE DATA: Aug. 1983 to Sept. 1990.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Dec. 1999 to current year.
 pH: Dec. 1999 to current year.
 WATER TEMPERATURE: Dec. 1999 to current year.
 DISSOLVED OXYGEN: Dec. 1999 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 802 microsiemens/cm, Aug. 29, 2000; minimum, 30 microsiemens/cm, June 9, 2001.
 pH: Maximum, 9.7 units, Mar. 27, 2001; minimum, 5.8 units, Jan. 5, 2000.
 WATER TEMPERATURE: Maximum, 35.0°C, July 19, 2000; minimum, 5.0°C, Jan. 4, 2001.
 DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Aug. 19, 2000; minimum, 1.8 mg/L, April 30, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 783 microsiemens/cm, Oct. 2; minimum, 30 microsiemens/cm, June 9.
 pH: Maximum, 9.7 units, Mar. 27; minimum, 6.1 units, June 10, 11.
 WATER TEMPERATURE: Maximum, 34.3°C, July 22; minimum, 5.0°C, Jan. 4.
 DISSOLVED OXYGEN: Maximum, 14.3 mg/L, Oct. 14; minimum, 2.9 mg/L, July 23.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	764	708	747	670	610	652	257	202	236	295	230	256
2	783	716	754	665	610	651	259	220	231	280	250	264
3	763	723	741	628	283	477	277	248	264	273	249	262
4	764	696	728	427	395	412	286	265	278	310	273	285
5	727	554	689	442	222	373	311	286	299	324	303	314
6	690	554	656	236	160	191	354	310	331	336	318	326
7	685	356	582	209	157	182	357	279	321	366	331	353
8	557	424	499	161	139	149	337	313	325	393	338	373
9	570	529	547	219	145	183	363	324	347	387	358	371
10	666	548	628	269	215	243	369	331	357	396	200	342
11	698	632	672	312	268	279	399	346	384	232	171	186
12	715	669	689	339	160	309	427	346	393	---	---	---
13	723	691	709	260	195	227	454	278	383	---	---	---
14	721	671	705	268	208	231	420	287	331	---	---	---
15	735	683	710	213	164	185	353	296	322	---	---	---
16	751	676	725	272	175	233	325	289	298	---	---	---
17	714	455	589	259	211	230	330	289	311	---	---	---
18	622	501	563	217	181	195	340	312	331	---	---	---
19	594	538	562	203	165	184	382	339	358	---	---	---
20	660	594	617	165	113	138	397	368	386	---	---	---
21	676	646	660	115	103	108	406	375	394	---	---	---
22	696	636	677	181	115	144	429	380	399	---	---	---
23	636	515	572	220	173	192	447	406	428	---	---	---
24	543	474	495	199	69	131	459	268	392	---	---	---
25	577	531	557	136	94	109	298	196	224	---	---	---
26	621	549	600	107	92	97	248	197	220	285	233	244
27	651	585	629	159	105	129	284	247	260	282	254	265
28	661	629	649	201	159	176	290	260	275	287	262	277
29	682	490	642	246	194	215	287	254	271	300	115	187
30	645	492	599	239	201	223	278	249	257	221	136	164
31	633	597	620	---	---	---	299	271	283	137	122	132
MONTH	783	356	639	670	69	242	459	196	319	---	---	---

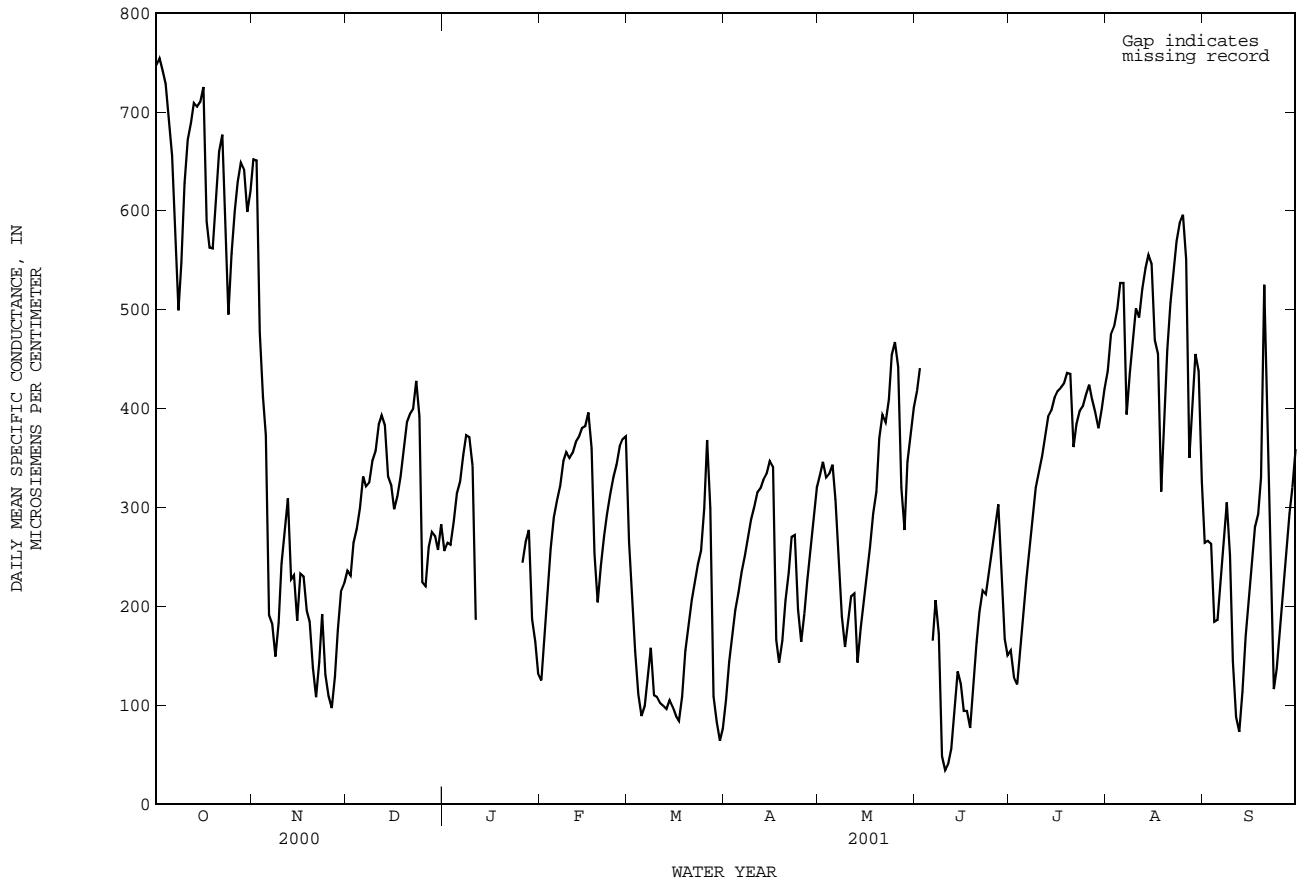
08068500 Spring Creek near Spring, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	144	117	125	299	240	265	130	89	105	345	317	333
2	204	144	174	267	156	211	163	130	144	355	330	346
3	253	201	221	187	132	155	190	163	172	360	298	330
4	276	252	258	132	96	111	209	187	196	364	302	334
5	299	276	290	96	85	89	226	206	214	377	293	343
6	319	299	307	110	91	99	244	225	235	337	274	308
7	335	314	322	155	109	132	261	244	251	308	209	254
8	361	335	347	187	92	158	277	256	270	246	162	190
9	385	341	356	145	104	110	306	262	287	172	149	159
10	387	327	350	111	102	108	318	281	300	200	172	185
11	369	343	355	112	96	102	323	307	315	232	196	210
12	381	350	366	109	94	99	334	307	319	244	65	213
13	380	360	371	102	91	96	339	315	328	182	87	143
14	389	366	380	118	99	105	347	319	334	200	167	178
15	391	363	382	105	90	98	358	323	347	220	192	202
16	424	377	396	92	82	89	391	252	341	243	219	232
17	405	331	360	91	80	84	313	130	166	282	241	260
18	368	191	253	138	91	109	151	135	143	308	277	294
19	224	190	204	178	137	155	191	144	165	331	295	316
20	256	224	241	199	173	182	232	188	206	409	316	370
21	300	246	271	220	197	206	257	230	234	409	378	394
22	316	262	293	237	217	223	278	257	270	409	369	386
23	330	299	313	255	233	242	317	92	272	437	373	409
24	342	314	330	268	245	256	226	161	197	486	432	454
25	363	326	343	351	268	299	174	150	164	493	430	467
26	383	341	362	380	351	368	219	172	193	490	387	442
27	385	358	369	373	124	299	250	208	226	387	260	320
28	444	298	372	127	95	109	273	239	253	310	257	277
29	---	---	---	96	67	83	290	272	284	372	307	346
30	---	---	---	68	61	64	332	288	320	394	357	372
31	---	---	---	90	65	76	---	---	---	422	382	401
MONTH	444	117	311	380	61	154	391	89	242	493	65	305
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	440	402	418	190	141	155	473	421	438	302	176	264
2	464	426	441	185	94	128	495	459	475	295	232	266
3	---	---	---	135	92	121	505	467	483	286	253	263
4	---	---	---	181	134	154	522	484	501	259	154	184
5	---	---	---	219	178	192	542	508	527	197	162	186
6	227	82	165	247	202	228	565	311	527	251	197	225
7	227	193	206	278	242	257	422	356	394	298	250	269
8	213	58	172	301	267	288	448	398	436	314	298	305
9	99	30	48	335	284	320	507	426	469	352	145	251
10	36	33	34	355	306	336	519	483	501	193	114	144
11	46	36	40	377	326	352	521	472	492	114	72	88
12	71	46	56	400	351	374	546	507	521	84	69	73
13	114	71	91	415	373	392	563	526	542	149	84	114
14	156	114	134	419	381	398	573	537	555	196	149	170
15	161	88	121	422	396	411	603	444	546	230	196	207
16	102	88	94	440	394	418	490	425	469	254	230	245
17	100	86	94	449	403	421	471	403	455	301	247	280
18	88	69	77	455	411	425	405	276	316	309	271	293
19	146	88	115	458	418	436	412	366	386	401	286	330
20	184	146	163	456	400	435	489	412	459	763	350	525
21	204	184	194	400	343	361	540	456	507	380	346	361
22	228	202	216	404	371	384	562	501	537	358	107	245
23	223	203	212	414	380	397	604	536	569	173	104	116
24	245	213	235	426	383	402	613	572	588	153	109	137
25	274	235	255	432	401	414	616	574	596	198	152	173
26	301	265	279	452	410	424	615	338	551	246	195	215
27	327	286	303	484	329	409	422	285	350	277	246	254
28	396	150	227	422	330	396	432	362	405	312	277	294
29	192	147	167	398	370	380	479	428	455	339	305	320
30	178	122	150	426	381	399	460	412	438	384	329	359
31	---	---	---	442	406	420	426	292	326	---	---	---
MONTH	---	---	---	484	92	343	616	276	478	763	69	239

SAN JACINTO RIVER BASIN

08068500 Spring Creek near Spring, TX--Continued



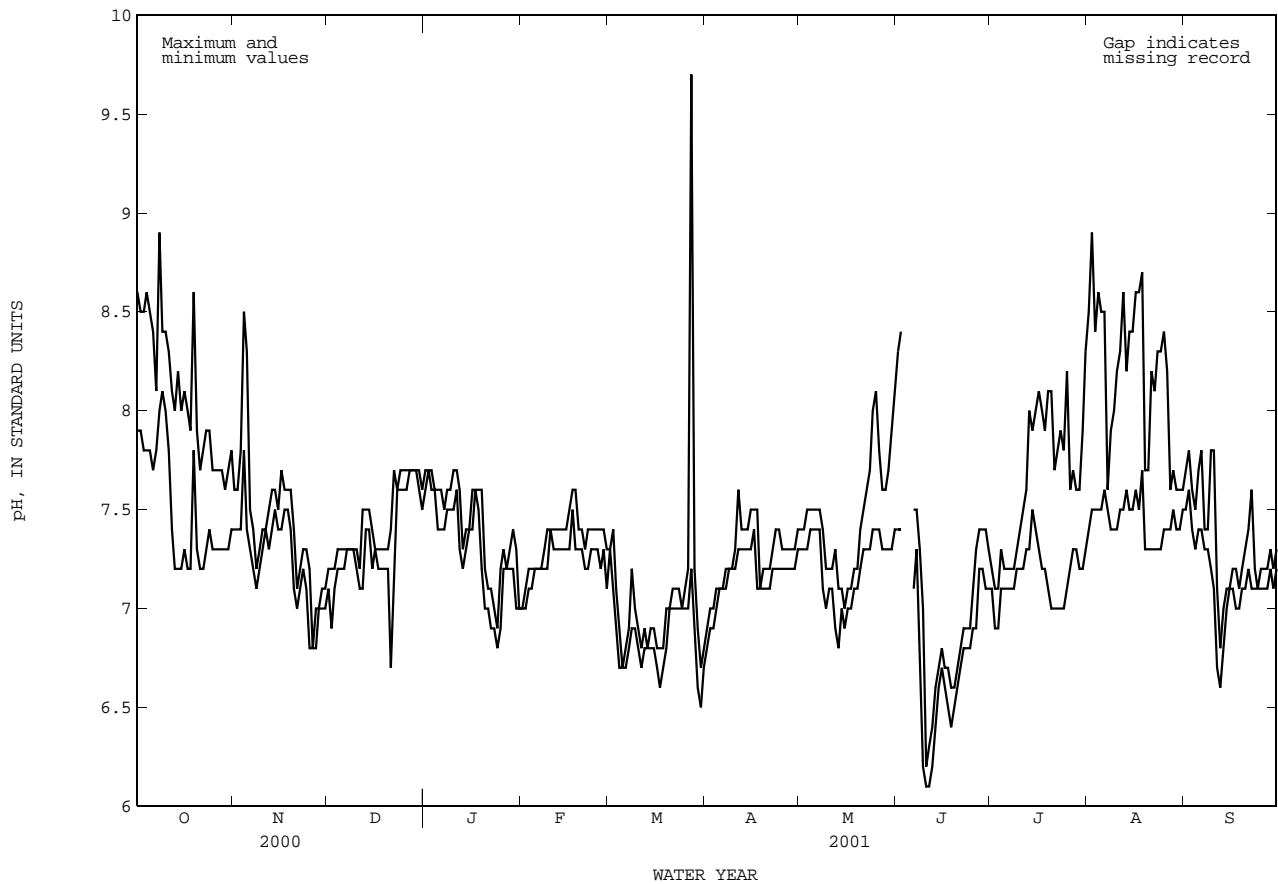
PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.6	7.9	7.6	7.4	7.2	7.1	7.7	7.6	7.0	7.0	7.3	7.3
2	8.5	7.9	7.6	7.4	7.2	6.9	7.7	7.7	7.1	7.0	7.4	7.1
3	8.5	7.8	7.8	7.4	7.2	7.1	7.7	7.6	7.2	7.1	7.1	6.9
4	8.6	7.8	8.5	7.8	7.3	7.2	7.6	7.6	7.2	7.1	6.9	6.7
5	8.5	7.8	8.3	7.4	7.3	7.2	7.6	7.4	7.2	7.2	6.7	6.7
6	8.4	7.7	7.5	7.3	7.3	7.2	7.6	7.4	7.2	7.2	6.8	6.7
7	8.1	7.8	7.4	7.2	7.3	7.3	7.5	7.4	7.2	7.2	6.9	6.8
8	8.9	8.0	7.2	7.1	7.3	7.3	7.6	7.5	7.3	7.2	7.2	6.9
9	8.4	8.1	7.3	7.2	7.3	7.3	7.6	7.5	7.4	7.2	7.0	6.9
10	8.4	8.0	7.4	7.3	7.3	7.2	7.7	7.5	7.4	7.4	6.9	6.8
11	8.3	7.8	7.4	7.4	7.2	7.1	7.7	7.6	7.4	7.3	6.8	6.7
12	8.1	7.4	7.5	7.3	7.5	7.1	7.6	7.3	7.4	7.3	6.9	6.8
13	8.0	7.2	7.6	7.4	7.5	7.4	7.3	7.2	7.4	7.3	6.8	6.8
14	8.2	7.2	7.6	7.5	7.5	7.4	7.4	7.3	7.4	7.3	6.9	6.8
15	8.0	7.2	7.5	7.4	7.4	7.2	7.4	7.4	7.4	7.3	6.9	6.8
16	8.1	7.3	7.7	7.4	7.3	7.3	7.6	7.4	7.5	7.3	6.8	6.7
17	8.0	7.2	7.6	7.5	7.3	7.2	7.6	7.6	7.6	7.5	6.8	6.6
18	7.9	7.2	7.6	7.5	7.3	7.2	7.6	7.5	7.6	7.3	6.8	6.7
19	8.6	7.8	7.6	7.4	7.3	7.2	7.6	7.2	7.4	7.3	7.0	6.8
20	7.9	7.3	7.4	7.1	7.3	7.2	7.2	7.0	7.4	7.3	7.0	7.0
21	7.7	7.2	7.1	7.0	7.4	6.7	7.1	7.0	7.3	7.2	7.1	7.0
22	7.8	7.2	7.2	7.1	7.7	7.2	7.1	6.9	7.4	7.2	7.1	7.0
23	7.9	7.3	7.3	7.2	7.6	7.6	7.0	6.9	7.4	7.3	7.1	7.0
24	7.9	7.4	7.3	7.1	7.7	7.6	6.9	6.8	7.4	7.3	7.0	7.0
25	7.7	7.3	7.2	6.8	7.7	7.6	7.2	6.9	7.4	7.3	7.1	7.0
26	7.7	7.3	6.8	6.8	7.7	7.6	7.3	7.2	7.4	7.2	7.2	7.0
27	7.7	7.3	7.0	6.8	7.7	7.7	7.2	7.2	7.4	7.3	9.7	7.2
28	7.7	7.3	7.0	7.0	7.7	7.7	7.3	7.2	7.3	7.1	7.2	6.9
29	7.6	7.3	7.1	7.0	7.7	7.7	7.4	7.2	---	---	6.9	6.6
30	7.7	7.3	7.1	7.0	7.7	7.6	7.3	7.0	---	---	6.7	6.5
31	7.8	7.4	---	---	7.6	7.5	7.0	7.0	---	---	6.8	6.7
MONTH	8.9	7.2	8.5	6.8	7.7	6.7	7.7	6.8	7.6	7.0	9.7	6.5

08068500 Spring Creek near Spring, TX--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.9	6.8	7.4	7.3	8.3	7.4	7.2	7.1	8.5	7.4	7.7	7.5
2	7.0	6.9	7.4	7.3	8.4	7.4	7.1	6.9	8.9	7.5	7.8	7.6
3	7.0	6.9	7.5	7.3	---	---	7.1	6.9	8.4	7.5	7.6	7.4
4	7.1	7.0	7.5	7.4	---	---	7.3	7.1	8.6	7.5	7.5	7.3
5	7.1	7.1	7.5	7.4	---	---	7.2	7.1	8.5	7.5	7.7	7.4
6	7.1	7.1	7.5	7.4	7.5	7.1	7.2	7.1	8.5	7.6	7.8	7.4
7	7.2	7.1	7.5	7.4	7.5	7.3	7.2	7.1	7.6	7.5	7.4	7.3
8	7.2	7.2	7.4	7.1	7.3	6.8	7.2	7.1	7.9	7.4	7.4	7.3
9	7.2	7.2	7.2	7.0	7.0	6.2	7.3	7.2	8.0	7.4	7.8	7.2
10	7.3	7.2	7.2	7.1	6.2	6.1	7.4	7.2	8.2	7.4	7.8	7.1
11	7.6	7.3	7.2	7.1	6.3	6.1	7.5	7.2	8.3	7.5	7.1	6.7
12	7.4	7.3	7.3	6.9	6.4	6.2	7.6	7.3	8.6	7.5	6.8	6.6
13	7.4	7.3	7.1	6.8	6.6	6.4	8.0	7.3	8.2	7.6	7.0	6.8
14	7.4	7.3	7.1	7.0	6.7	6.6	7.9	7.5	8.4	7.5	7.1	7.0
15	7.5	7.3	7.0	6.9	6.8	6.7	8.0	7.4	8.4	7.5	7.1	7.1
16	7.5	7.4	7.1	7.0	6.7	6.6	8.1	7.3	8.6	7.6	7.2	7.1
17	7.5	7.1	7.1	7.0	6.7	6.5	8.0	7.2	8.6	7.5	7.2	7.0
18	7.1	7.1	7.2	7.1	6.6	6.4	7.9	7.2	8.7	7.7	7.1	7.0
19	7.2	7.1	7.2	7.1	6.6	6.5	8.1	7.1	7.7	7.3	7.2	7.1
20	7.2	7.1	7.4	7.2	6.7	6.6	8.1	7.0	7.7	7.3	7.3	7.1
21	7.2	7.1	7.5	7.3	6.8	6.7	7.7	7.0	8.2	7.3	7.4	7.2
22	7.3	7.2	7.6	7.3	6.9	6.8	7.8	7.0	8.1	7.3	7.6	7.1
23	7.4	7.2	7.7	7.3	6.9	6.8	7.9	7.0	8.3	7.3	7.2	7.1
24	7.4	7.2	8.0	7.4	6.9	6.8	7.8	7.0	8.3	7.3	7.1	7.1
25	7.3	7.2	8.1	7.4	7.1	6.9	8.2	7.1	8.4	7.4	7.2	7.1
26	7.3	7.2	7.8	7.4	7.3	6.9	7.6	7.2	8.2	7.4	7.2	7.1
27	7.3	7.2	7.6	7.3	7.4	7.2	7.7	7.3	7.6	7.4	7.2	7.1
28	7.3	7.2	7.6	7.3	7.4	7.2	7.6	7.3	7.7	7.5	7.3	7.2
29	7.3	7.2	7.7	7.3	7.4	7.1	7.6	7.2	7.6	7.4	7.2	7.1
30	7.4	7.3	7.9	7.3	7.3	7.1	7.9	7.2	7.6	7.4	7.3	7.2
31	---	---	8.1	7.4	---	---	8.3	7.3	7.6	7.5	---	---
MONTH	7.6	6.8	8.1	6.8	---	---	8.3	6.9	8.9	7.3	7.8	6.6



SAN JACINTO RIVER BASIN

08068500 Spring Creek near Spring, TX--Continued

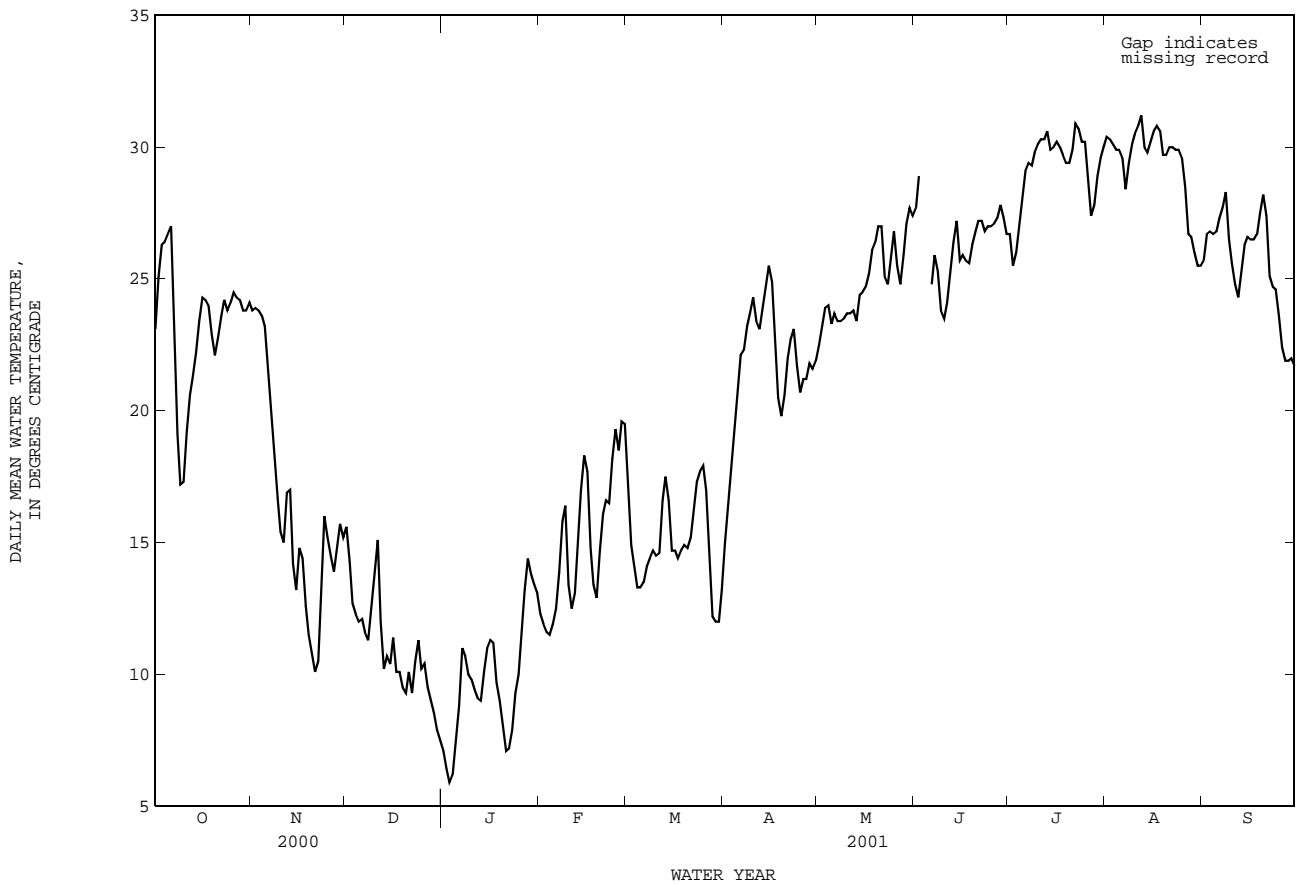
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.7	20.5	23.1	24.3	23.1	23.8	16.2	15.1	15.6	7.7	6.9	7.1
2	27.4	23.1	25.1	24.9	23.0	23.9	15.6	13.4	14.3	6.9	6.0	6.4
3	28.5	24.3	26.3	24.2	23.6	23.8	13.4	12.3	12.7	6.7	5.2	5.9
4	28.5	24.3	26.4	23.9	23.4	23.6	12.9	11.8	12.3	7.7	5.0	6.2
5	28.4	25.0	26.7	23.6	22.5	23.2	13.0	11.3	12.0	9.2	6.3	7.6
6	27.9	25.4	27.0	22.5	21.3	21.9	12.4	11.8	12.1	10.3	7.3	8.8
7	25.4	19.6	22.4	21.5	19.6	20.4	12.5	10.8	11.6	11.8	9.8	11.0
8	20.0	18.1	19.1	19.6	17.4	18.7	12.4	10.2	11.3	11.9	9.9	10.7
9	18.1	16.6	17.2	17.4	15.7	16.7	13.6	11.5	12.4	11.3	8.8	10.0
10	18.6	16.4	17.3	16.7	14.4	15.4	15.0	12.7	13.7	10.1	9.4	9.8
11	21.5	17.4	19.2	15.6	14.3	15.0	16.7	14.0	15.1	9.6	9.1	9.4
12	22.7	18.6	20.6	19.4	15.6	16.9	14.0	10.6	12.0	9.3	8.9	9.1
13	23.3	19.2	21.3	18.3	15.4	17.0	10.8	9.2	10.2	9.3	8.8	9.0
14	24.4	20.1	22.2	15.4	13.1	14.2	11.2	10.4	10.7	10.9	9.3	10.1
15	24.9	21.9	23.4	13.7	12.7	13.2	10.7	10.2	10.4	11.3	10.5	11.0
16	25.9	23.0	24.3	15.4	13.7	14.8	12.4	10.7	11.4	11.4	11.1	11.3
17	26.0	22.8	24.2	15.2	13.6	14.4	11.0	9.4	10.1	11.4	10.7	11.2
18	25.6	23.1	24.0	13.6	11.6	12.6	11.1	9.5	10.1	10.7	8.8	9.7
19	24.8	21.4	22.9	11.9	11.1	11.5	10.3	8.7	9.5	9.4	8.5	9.0
20	23.3	20.7	22.1	11.2	10.3	10.8	10.5	8.1	9.3	8.5	7.6	8.0
21	23.7	21.9	22.8	10.5	9.7	10.1	10.9	9.6	10.1	7.6	6.8	7.1
22	24.8	22.6	23.6	11.4	9.6	10.5	10.1	8.2	9.3	7.7	6.7	7.2
23	25.1	23.5	24.2	16.0	11.4	12.6	11.6	9.6	10.5	8.6	7.2	7.9
24	25.4	22.6	23.8	18.0	15.1	16.0	11.6	10.7	11.3	10.5	8.5	9.3
25	25.8	22.9	24.1	15.6	15.0	15.2	10.7	10.0	10.2	11.1	9.0	10.0
26	26.1	23.5	24.5	15.0	14.1	14.5	10.8	10.2	10.4	12.9	10.4	11.5
27	25.8	23.0	24.3	14.5	13.3	13.9	10.4	8.9	9.5	14.5	12.2	13.2
28	25.3	23.1	24.2	15.4	13.9	14.7	9.8	8.4	9.0	15.1	13.7	14.4
29	24.5	23.1	23.8	16.1	15.2	15.7	9.1	8.0	8.5	15.4	12.8	13.8
30	24.9	23.0	23.8	15.6	14.6	15.2	8.7	7.2	7.9	14.0	13.0	13.4
31	25.6	23.0	24.1	---	---	---	7.7	7.3	7.5	13.5	12.8	13.1
MONTH	28.5	16.4	23.2	24.9	9.6	16.3	16.7	7.2	11.0	15.4	5.0	9.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.8	12.0	12.3	18.4	16.2	17.3	16.4	14.0	15.0	24.5	21.0	22.5
2	12.3	11.6	11.9	16.2	14.2	14.9	17.0	15.7	16.3	25.8	21.5	23.2
3	12.8	10.8	11.6	14.6	13.4	14.1	18.7	17.0	17.8	26.1	22.3	23.9
4	13.2	10.2	11.5	13.9	12.7	13.3	20.0	18.5	19.1	25.4	22.9	24.0
5	13.5	10.4	11.9	13.9	12.6	13.3	22.7	19.5	20.7	23.9	22.5	23.3
6	14.4	11.0	12.5	14.0	12.9	13.5	23.8	20.7	22.1	25.5	22.5	23.7
7	14.9	13.0	13.9	15.2	13.1	14.1	23.6	21.2	22.3	25.0	22.0	23.4
8	16.8	14.9	15.8	15.2	13.9	14.4	25.4	21.7	23.2	24.3	22.8	23.4
9	16.9	14.7	16.4	15.1	14.4	14.7	25.5	22.4	23.7	24.5	22.6	23.5
10	14.7	12.4	13.4	15.2	13.9	14.5	25.9	23.0	24.3	25.2	22.5	23.7
11	13.1	12.0	12.5	15.4	14.3	14.6	24.4	22.8	23.4	25.2	22.5	23.7
12	14.3	12.0	13.1	17.6	15.4	16.6	24.6	22.2	23.1	25.9	21.2	23.8
13	16.6	14.2	15.2	18.4	16.7	17.5	25.7	22.7	23.9	25.7	21.1	23.4
14	18.3	16.0	17.0	18.0	14.2	16.6	27.0	23.1	24.7	26.2	23.3	24.4
15	19.3	17.4	18.3	15.2	14.3	14.7	28.1	23.7	25.5	27.0	22.7	24.5
16	18.8	15.9	17.7	15.4	14.2	14.7	25.8	24.0	24.9	26.9	22.9	24.7
17	15.9	13.8	14.8	14.8	13.9	14.4	24.2	21.1	22.4	27.6	23.4	25.2
18	14.4	12.9	13.4	15.4	14.1	14.7	21.4	19.8	20.5	29.2	23.9	26.1
19	13.6	11.9	12.9	15.9	14.3	14.9	20.6	18.8	19.8	28.5	24.4	26.4
20	16.1	13.4	14.7	16.5	13.5	14.8	22.1	19.5	20.6	29.9	24.9	27.0
21	17.1	15.3	16.1	17.4	13.4	15.2	24.7	20.0	22.0	29.1	25.4	27.0
22	17.2	16.0	16.6	18.7	14.2	16.2	23.6	21.8	22.7	28.1	22.7	25.1
23	17.0	16.1	16.5	19.6	15.7	17.3	25.5	21.8	23.1	28.4	21.8	24.8
24	19.5	17.0	18.2	18.6	16.8	17.7	22.5	20.9	21.7	29.6	22.9	25.8
25	21.0	18.2	19.3	19.6	16.5	17.9	22.0	19.6	20.7	29.5	24.5	26.8
26	19.0	17.9	18.5	18.8	15.8	17.0	23.7	19.3	21.2	27.0	24.3	25.5
27	21.1	18.4	19.6	17.0	11.4	14.5	23.1	19.4	21.2	27.1	23.1	24.8
28	20.1	18.4	19.5	12.4	11.7	12.2	24.7	19.7	21.8	29.1	23.9	25.9
29	---	---	---	12.2	11.9	12.0	23.7	19.8	21.6	30.1	24.9	27.1
30	---	---	---	12.5	11.5	12.0	24.0	20.1	21.9	29.9	25.9	27.7
31	---	---	---	14.1	12.5	13.2	---	---	---	29.0	26.1	27.4
MONTH	21.1	10.2	15.2	19.6	11.4	14.9	28.1	14.0	21.7	30.1	21.0	24.9

08068500 Spring Creek near Spring, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	31.2	25.2	27.7	27.4	25.9	26.7	33.9	27.4	30.4	26.3	25.2	25.7
2	32.3	26.4	28.9	26.8	24.5	25.5	32.9	28.0	30.3	28.4	25.7	26.7
3	---	---	---	27.4	25.0	26.0	33.3	27.5	30.1	27.7	25.9	26.8
4	---	---	---	29.0	25.4	27.0	33.1	27.1	29.9	27.9	26.1	26.7
5	---	---	---	30.8	26.0	28.1	32.8	27.4	29.9	28.2	26.1	26.8
6	26.2	22.9	24.8	31.8	27.0	29.1	32.7	27.5	29.6	29.2	26.0	27.3
7	26.5	25.4	25.9	32.0	27.5	29.4	30.9	26.4	28.4	30.0	26.1	27.7
8	26.4	24.1	25.3	31.7	27.2	29.3	32.3	27.2	29.4	30.7	26.6	28.3
9	24.8	23.4	23.8	33.0	27.3	29.8	33.1	27.7	30.1	28.3	25.1	26.5
10	23.8	23.3	23.5	33.3	27.8	30.1	33.8	27.7	30.5	26.2	25.1	25.6
11	24.8	23.7	24.1	33.8	27.8	30.3	34.1	28.2	30.8	25.2	24.3	24.8
12	26.0	24.8	25.3	33.3	27.9	30.3	34.2	28.5	31.2	24.9	23.7	24.3
13	27.3	25.7	26.4	34.0	28.1	30.6	31.6	28.7	30.0	26.5	24.3	25.3
14	28.5	26.3	27.2	31.8	28.3	29.9	32.9	27.4	29.8	28.4	24.9	26.3
15	27.2	24.6	25.7	33.1	27.6	30.0	32.5	27.8	30.2	28.6	25.0	26.6
16	27.0	25.1	25.9	33.1	28.0	30.2	33.5	28.3	30.6	28.3	25.2	26.5
17	26.1	25.2	25.7	32.6	27.7	30.0	33.6	28.6	30.8	28.5	24.9	26.5
18	26.3	24.9	25.6	32.1	27.6	29.7	33.2	28.7	30.6	28.7	25.0	26.7
19	27.5	25.4	26.3	31.7	27.3	29.4	30.8	28.9	29.7	30.3	25.6	27.5
20	28.3	25.6	26.8	32.6	27.2	29.4	33.3	27.1	29.7	30.8	26.4	28.2
21	29.4	25.6	27.2	33.4	27.1	29.9	33.0	27.7	30.0	29.1	26.1	27.4
22	29.2	25.7	27.2	34.3	28.2	30.9	33.2	27.2	30.0	26.5	24.0	25.1
23	28.4	25.4	26.8	33.5	28.5	30.7	33.0	27.0	29.9	25.5	23.9	24.7
24	29.6	25.1	27.0	32.8	27.9	30.2	32.3	27.6	29.9	24.9	23.9	24.6
25	29.6	24.9	27.0	33.1	27.7	30.2	31.9	27.1	29.6	25.0	22.6	23.6
26	29.3	25.2	27.1	30.4	27.8	28.8	30.4	26.6	28.5	24.3	20.8	22.4
27	29.5	25.4	27.3	28.3	26.8	27.4	27.5	25.6	26.7	24.3	20.0	21.9
28	29.7	26.0	27.8	29.9	26.1	27.8	27.3	25.9	26.6	24.3	19.9	21.9
29	29.1	26.0	27.3	31.7	26.7	28.9	26.5	25.5	26.0	24.5	20.0	22.0
30	27.9	26.0	26.7	32.4	27.4	29.6	26.0	24.9	25.5	23.8	20.0	21.7
31	---	---	---	33.4	27.3	30.0	25.9	25.1	25.5	---	---	---
MONTH	---	---	---	34.3	24.5	29.2	34.2	24.9	29.4	30.8	19.9	25.5



SAN JACINTO RIVER BASIN

08068500 Spring Creek near Spring, TX--Continued

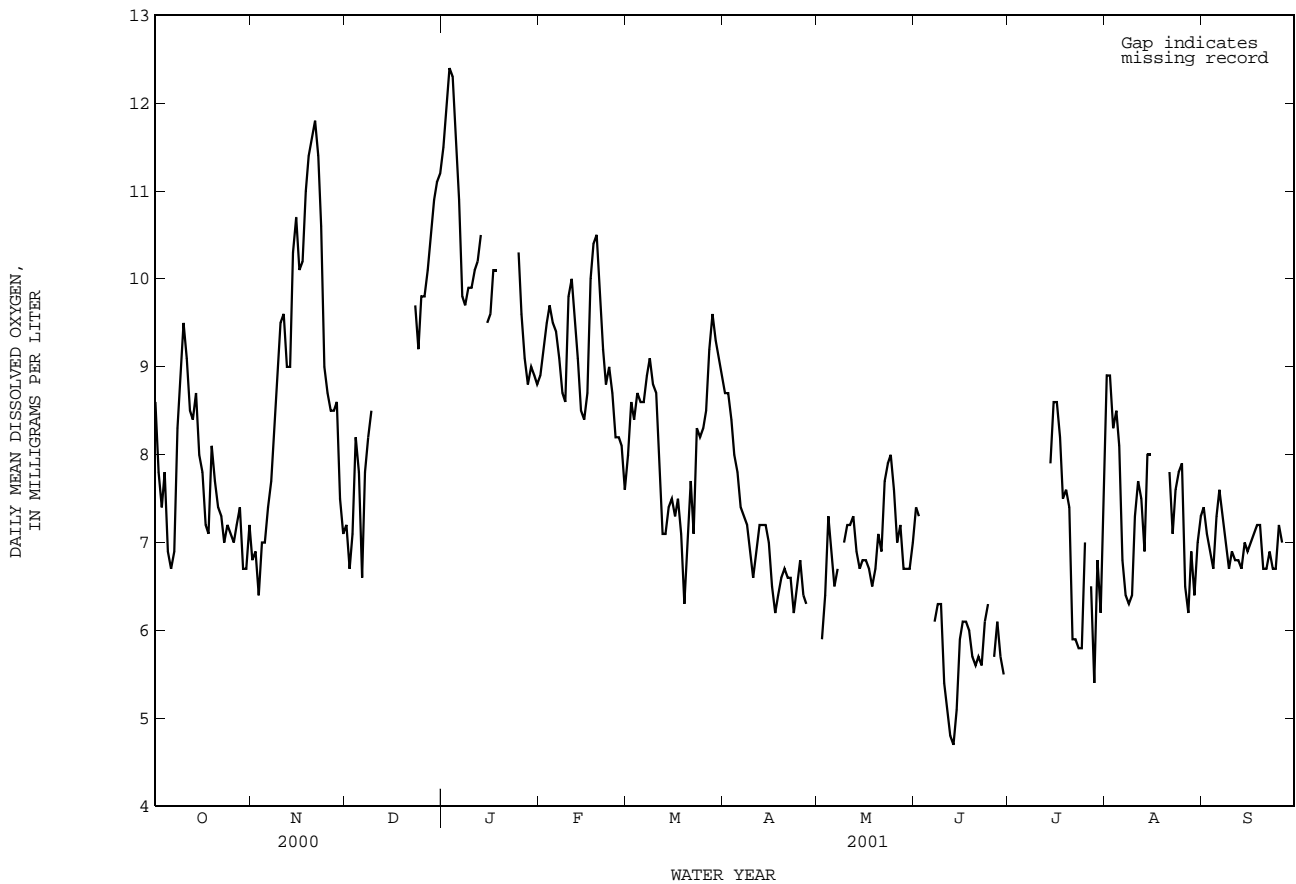
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.6	5.9	8.6	8.7	5.7	6.8	7.9	6.2	7.2	11.7	11.0	11.5
2	11.0	5.4	7.8	9.0	5.7	6.9	8.1	5.3	6.7	12.3	11.5	12.0
3	11.2	4.9	7.4	7.2	3.6	6.4	8.5	5.9	7.1	12.6	12.1	12.4
4	12.3	4.9	7.8	7.6	6.7	7.0	9.0	7.4	8.2	12.7	11.7	12.3
5	11.2	4.8	6.9	7.4	6.8	7.0	9.4	6.1	7.8	11.9	11.1	11.5
6	10.9	4.2	6.7	7.8	7.2	7.4	8.2	4.8	6.6	11.3	10.4	10.9
7	9.2	5.5	6.9	7.9	7.3	7.7	8.5	6.8	7.8	10.5	9.2	9.8
8	10.2	7.1	8.3	8.5	7.8	8.2	9.3	6.8	8.2	9.9	8.9	9.7
9	10.8	7.7	8.9	9.1	8.4	8.8	9.4	7.1	8.5	10.5	8.9	9.9
10	12.5	7.6	9.5	9.7	9.1	9.5	---	---	---	11.2	8.2	9.9
11	12.8	7.0	9.1	9.9	8.8	9.6	---	---	---	11.2	6.8	10.1
12	12.5	6.0	8.5	9.3	7.9	9.0	---	---	---	11.1	7.0	10.2
13	13.1	5.6	8.4	9.5	8.6	9.0	---	---	---	10.9	9.4	10.5
14	14.3	5.5	8.7	10.7	9.5	10.3	---	---	---	---	---	---
15	12.0	5.5	8.0	10.8	10.3	10.7	---	---	---	10.0	8.9	9.5
16	12.8	5.1	7.8	10.4	9.8	10.1	---	---	---	10.0	9.0	9.6
17	11.2	5.1	7.2	10.6	9.8	10.2	---	---	---	10.6	9.8	10.1
18	10.3	5.4	7.1	11.4	10.5	11.0	---	---	---	11.8	9.4	10.1
19	12.3	5.9	8.1	11.5	11.3	11.4	---	---	---	---	---	---
20	11.4	5.5	7.7	11.7	11.5	11.6	---	---	---	---	---	---
21	10.8	5.4	7.4	11.9	11.7	11.8	---	---	---	---	---	---
22	10.6	5.3	7.3	11.8	10.8	11.4	---	---	---	---	---	---
23	9.3	5.8	7.0	10.9	9.7	10.6	10.0	9.1	9.7	---	---	---
24	9.5	5.9	7.2	9.8	8.6	9.0	9.9	8.9	9.2	---	---	---
25	9.9	5.5	7.1	9.0	8.5	8.7	9.9	9.8	9.8	10.6	9.9	10.3
26	10.1	5.3	7.0	8.8	7.8	8.5	9.9	9.8	9.8	9.9	9.2	9.6
27	10.4	5.3	7.2	9.0	8.0	8.5	10.2	9.8	10.1	9.3	8.9	9.1
28	10.6	5.4	7.4	9.1	7.9	8.6	10.6	10.2	10.5	8.9	8.5	8.8
29	8.8	5.3	6.7	8.0	6.7	7.5	11.0	10.5	10.9	9.6	8.4	9.0
30	8.9	5.4	6.7	7.7	6.2	7.1	11.3	11.0	11.1	9.1	8.7	8.9
31	9.9	5.3	7.2	---	---	---	11.3	11.1	11.2	8.9	8.7	8.8
MONTH	14.3	4.2	7.7	11.9	3.6	9.0	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	8.7	8.9	8.4	7.8	8.0	8.8	8.6	8.7	---	---	---
2	9.4	9.0	9.2	8.4	7.9	8.6	8.7	8.5	8.7	7.8	3.2	5.9
3	9.7	8.9	9.5	8.7	8.2	8.4	8.5	8.1	8.4	7.9	4.0	6.4
4	10.1	8.7	9.7	8.8	8.5	8.7	8.2	7.9	8.0	8.4	6.4	7.3
5	10.1	7.8	9.5	8.7	8.5	8.6	7.9	7.5	7.8	7.3	6.2	6.9
6	9.9	8.5	9.4	8.7	8.5	8.6	7.6	7.1	7.4	7.6	5.3	6.5
7	9.5	8.3	9.1	9.0	8.7	8.9	7.5	7.1	7.3	7.2	5.1	6.7
8	9.1	8.4	8.7	9.8	7.6	9.1	7.4	6.8	7.2	---	---	---
9	9.2	8.2	8.6	9.2	8.7	8.8	7.2	6.4	6.9	7.1	6.9	7.0
10	10.1	9.1	9.8	9.0	8.1	8.7	7.2	5.8	6.6	7.5	6.9	7.2
11	10.3	9.4	10.0	8.1	7.4	8.0	7.5	6.0	6.9	7.5	7.1	7.2
12	10.3	7.2	9.5	7.6	6.7	7.1	7.8	6.8	7.2	8.7	6.6	7.3
13	9.8	7.9	9.1	7.4	6.9	7.1	7.9	6.7	7.2	7.9	6.5	6.9
14	9.4	7.5	8.5	8.1	6.0	7.4	7.9	6.7	7.2	6.9	6.5	6.7
15	9.4	6.2	8.4	7.6	7.3	7.5	8.2	5.9	7.0	7.0	6.6	6.8
16	9.6	7.4	8.7	7.6	7.0	7.3	7.1	5.7	6.5	7.0	6.2	6.8
17	10.7	9.2	10.0	7.8	7.2	7.5	6.6	5.4	6.2	6.9	6.4	6.7
18	10.5	10.2	10.4	7.7	5.8	7.1	7.1	5.8	6.4	7.0	6.0	6.5
19	10.7	10.1	10.5	7.0	5.2	6.3	7.1	6.1	6.6	7.6	5.8	6.7
20	10.2	9.5	9.9	7.5	5.6	7.0	7.1	6.3	6.7	8.2	5.0	7.1
21	9.5	8.3	9.2	8.4	7.0	7.7	7.1	5.4	6.6	8.5	4.2	6.9
22	9.3	7.4	8.8	8.2	5.4	7.1	7.1	6.0	6.6	9.9	5.9	7.7
23	9.4	7.8	9.0	9.3	7.1	8.3	7.2	5.3	6.2	10.3	6.2	7.9
24	9.1	8.1	8.7	8.4	8.0	8.2	7.2	5.5	6.5	10.5	6.5	8.0
25	8.6	7.4	8.2	8.5	8.1	8.3	7.3	5.4	6.8	10.8	4.6	7.6
26	8.7	6.1	8.2	8.8	8.3	8.5	7.2	5.3	6.4	9.7	5.9	7.0
27	8.7	7.3	8.1	10.6	8.4	9.2	7.2	5.1	6.3	8.0	6.4	7.2
28	7.8	7.0	7.6	10.1	9.4	9.6	---	---	---	8.4	5.7	6.7
29	---	---	---	9.5	9.1	9.3	---	---	---	8.8	5.1	6.7
30	---	---	---	9.2	9.1	9.1	---	---	---	9.6	4.3	6.7
31	---	---	---	9.1	8.7	8.9	---	---	---	10.5	5.1	7.0
MONTH	10.7	6.1	9.1	10.6	5.2	8.2	---	---	---	---	---	---

08068500 Spring Creek near Spring, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	11.1	5.1	7.4	---	---	---	13.1	5.8	8.9	7.9	7.1	7.4
2	11.2	4.7	7.3	---	---	---	13.5	5.4	8.9	7.6	6.8	7.1
3	---	---	---	---	---	---	12.9	4.3	8.3	7.3	5.9	6.9
4	---	---	---	---	---	---	13.2	5.3	8.5	7.0	5.2	6.7
5	---	---	---	---	---	---	13.1	4.7	8.1	7.6	6.9	7.3
6	---	---	---	---	---	---	12.8	4.3	6.8	8.2	7.3	7.6
7	6.6	5.4	6.1	---	---	---	7.6	5.1	6.4	8.0	6.6	7.3
8	7.5	5.1	6.3	---	---	---	9.8	3.2	6.3	7.4	6.7	7.0
9	7.1	5.7	6.3	---	---	---	11.6	4.0	6.4	7.5	5.1	6.7
10	5.7	5.1	5.4	---	---	---	11.8	3.6	7.3	7.1	6.5	6.9
11	5.2	4.9	5.1	---	---	---	12.0	4.0	7.7	6.9	6.7	6.8
12	5.0	3.8	4.8	---	---	---	12.2	4.0	7.5	7.0	6.7	6.8
13	5.0	4.0	4.7	---	---	---	10.6	3.5	6.9	6.9	6.5	6.7
14	5.2	4.3	5.1	10.5	5.8	7.9	13.4	3.7	8.0	7.2	6.9	7.0
15	6.5	4.2	5.9	11.7	5.9	8.6	12.1	5.0	8.0	7.2	5.6	6.9
16	6.2	5.8	6.1	12.0	6.7	8.6	---	---	---	7.3	5.6	7.0
17	6.3	5.9	6.1	11.6	6.2	8.2	---	---	---	7.4	6.6	7.1
18	6.1	5.8	6.0	10.5	5.5	7.5	---	---	---	7.6	6.3	7.2
19	5.9	5.4	5.7	11.3	5.4	7.6	---	---	---	7.8	6.4	7.2
20	6.0	5.2	5.6	12.6	5.4	7.4	---	---	---	7.7	5.5	6.7
21	6.1	4.9	5.7	8.2	4.4	5.9	10.7	5.8	7.8	7.7	5.4	6.7
22	6.5	3.3	5.6	9.1	3.0	5.9	10.8	4.3	7.1	7.6	6.4	6.9
23	7.0	5.4	6.1	10.3	2.9	5.8	11.9	4.5	7.6	7.2	5.8	6.7
24	7.2	5.8	6.3	9.5	3.3	5.8	12.1	4.1	7.8	7.0	6.4	6.7
25	7.7	3.0	---	11.8	3.5	7.0	12.4	4.5	7.9	7.5	6.7	7.2
26	6.7	3.6	5.7	---	---	---	9.5	4.3	6.5	7.8	6.0	7.0
27	7.3	4.9	6.1	8.7	4.4	6.5	7.1	5.3	6.2	---	---	---
28	6.2	4.7	5.7	7.9	3.4	5.4	8.5	6.0	6.9	---	---	---
29	6.1	4.5	5.5	8.6	5.6	6.8	7.7	5.2	6.4	---	---	---
30	---	---	---	9.9	4.2	6.2	7.7	5.9	7.0	---	---	---
31	---	---	---	11.8	4.6	7.8	7.6	7.1	7.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



SAN JACINTO RIVER BASIN

08068720 Cypress Creek at Katy-Hockley Road near Hockley, TX

LOCATION.--Lat 29°57'00", long 95°48'29", Harris County, Hydrologic Unit 12040102, on left bank at bridge on Katy-Hockley Road, 3.3 mi downstream from Cypress Creek at Sharp Road near Hockley (station 08068700), 5.6 mi southeast of Hockley, and 6.3 mi upstream from Cypress Creek at House and Hahl Road near Cypress (station 08068740).

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--June 1975 to July 1983, Feb. 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. A concrete weir located 0.9 mi downstream from the gage, washed out on Aug. 11, 1991. Datum of gage is 100.00 ft above sea level. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation. Considerable diversions and return flow from irrigation occurs upstream from station, especially during the period Apr. through Oct. Stage-discharge relation affected by seasonal vegetal growth during most years. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in June 1960 reached a stage of 62.0 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.5	7.4	6.2	59	2.6	420	1.4	.39	7.9	.02	115
2	.00	1.9	8.3	22	34	62	128	1.5	.24	7.8	.00	139
3	.00	3.4	7.5	18	23	364	78	2.0	.22	4.4	.00	124
4	.00	22	6.0	8.9	17	515	63	2.1	.12	2.9	1.0	376
5	.00	66	4.2	5.3	11	380	44	5.2	.03	1.2	.47	327
6	.00	43	3.3	3.5	7.1	111	34	11	.25	.98	.00	128
7	.00	105	3.9	2.8	7.0	52	27	24	.28	.72	.00	67
8	.00	32	4.4	2.4	6.2	38	21	85	8.8	.53	.50	47
9	.00	15	5.2	1.6	5.6	316	15	19	652	.30	.12	271
10	.00	4.9	3.4	6.6	4.8	501	13	6.3	803	.27	.00	653
11	.00	6.7	2.7	201	4.1	288	12	5.4	915	.15	.00	759
12	.00	32	2.9	263	3.4	454	11	4.5	670	.07	.00	515
13	.00	183	3.4	85	3.2	486	9.3	4.5	179	.01	.52	155
14	.00	92	31	48	3.0	391	8.4	2.9	71	.00	.06	82
15	.00	32	22	34	3.2	914	7.1	2.0	64	.00	.00	58
16	.00	33	11	29	3.9	872	9.5	1.1	165	.00	.15	44
17	.00	137	8.1	75	32	634	51	.47	75	.00	1.9	34
18	.00	161	6.0	244	25	366	47	.32	37	.00	.92	28
19	.00	377	4.6	481	11	125	17	.86	20	.00	.15	18
20	.00	355	3.1	587	7.4	69	11	.82	12	.00	.01	13
21	.00	126	2.4	392	5.3	49	8.4	.46	11	.00	.00	11
22	.00	54	2.1	120	4.3	30	6.9	.33	18	.00	.00	33
23	.00	32	1.9	64	3.4	22	6.1	.30	12	.00	.00	36
24	.00	247	4.3	43	3.1	18	6.6	.21	8.4	.00	.00	31
25	.00	345	20	30	3.3	14	4.7	32	5.3	.00	.00	23
26	.00	153	9.2	23	2.9	14	5.8	53	4.1	.00	.00	15
27	.00	55	7.6	18	2.8	90	3.0	13	3.3	.00	.00	11
28	.00	29	5.7	24	2.7	828	2.2	2.6	4.1	.03	3.0	7.6
29	.00	15	8.0	128	---	1090	2.1	.79	2.6	.35	21	5.5
30	.00	15	5.9	273	---	1090	1.5	.46	2.3	.11	20	3.9
31	.00	---	3.8	123	---	771	---	.74	---	.01	59	---
TOTAL	0.00	2774.4	219.3	3362.3	298.7	10956.6	1073.6	284.26	3744.43	27.73	108.82	4130.0
MEAN	.000	92.5	7.07	108	10.7	353	35.8	9.17	125	.89	3.51	138
MAX	.00	377	31	587	59	1090	420	85	915	7.9	59	759
MIN	.00	1.5	1.9	1.6	2.7	2.6	1.5	.21	.03	.00	.00	3.9
AC-FT	.00	5500	435	6670	592	21730	2130	564	7430	55	216	8190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001h, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	51.6	61.8	68.3	96.4	82.4	62.6	63.1	80.5	90.5	14.9	4.84	35.2															
MAX	368	359	257	508	534	353	344	377	375	98.7	24.8	358															
(WY)	1999	1999	1977	1979	1992	2001	1991	1993	1987	1979	1994	1979															
MIN	.000	.000	.000	.28	.000	.000	.10	.004	.22	.000	.019	.000															
(WY)	2000	2000	1989	2000	1976	2000	1987	1996	1988	1998	1988	1999															

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

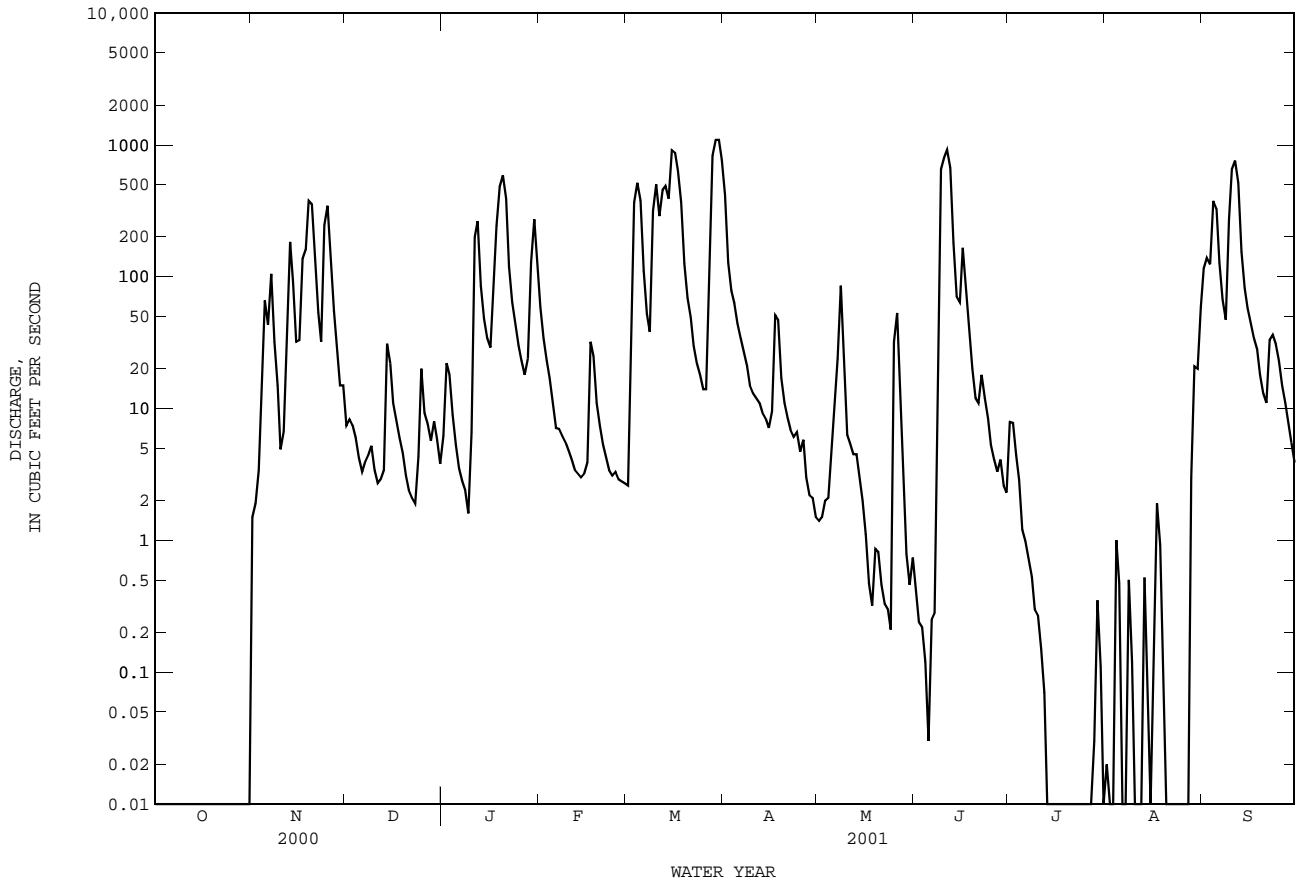
FOR 2001 WATER YEAR

WATER YEARS 1975 - 2001h

ANNUAL TOTAL	4954.41	26980.14	
ANNUAL MEAN	13.5	73.9	58.9
HIGHEST ANNUAL MEAN			186
LOWEST ANNUAL MEAN			5.01
HIGHEST DAILY MEAN	432	May 21	2240
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
MAXIMUM PEAK FLOW			1160
MAXIMUM PEAK STAGE			57.78
ANNUAL RUNOFF (AC-FT)	9830	53520	42690
10 PERCENT EXCEEDS	23	253	117
50 PERCENT EXCEEDS	.00	6.6	2.9
90 PERCENT EXCEEDS	.00	.00	.00

h See PERIOD OF RECORD paragraph.

08068720 Cypress Creek at Katy-Hockley Road near Hockley, TX--Continued



SAN JACINTO RIVER BASIN

08068740 Cypress Creek at House and Hahl Road near Cypress, TX

LOCATION.--Lat 29°57'32", long 95°43'03", Harris County, Hydrologic Unit 12040102, on right bank at bridge on House and Hahl Road, 1.4 mi southwest of Cypress, and 6.3 mi downstream from Cypress Creek at Katy-Hockley Road near Hockley (station 08068720).

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD.--June 1975 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 100.00 ft above sea level. Satellite telemeter at station.

REMARKS.--Records poor. No known regulation. Stage-discharge relation affected by seasonal vegetal growth during most years. Considerable diversions and return flow from irrigation occurs upstream from station, especially during the period Apr. through Oct. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1908, about 49 ft in 1937, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.49	5.1	11	39	7.7	578	29	18	9.8	e.92	187
2	.00	.33	3.1	7.7	20	83	165	29	19	19	e.98	152
3	.00	13	3.4	11	13	348	97	28	20	14	e.93	216
4	.00	14	2.7	4.6	8.9	596	67	28	19	11	e.91	515
5	.00	34	2.2	2.2	6.0	469	53	40	20	8.4	e.88	377
6	.00	41	3.0	1.5	2.6	119	43	37	34	7.2	e.85	183
7	4.4	57	2.5	2.8	3.1	48	37	62	21	5.5	e.90	90
8	9.0	14	2.0	4.2	3.8	41	31	115	97	4.6	e2.4	53
9	.02	3.2	2.8	5.0	4.4	287	28	48	2580	e4.9	e5.9	300
10	.00	.87	2.4	22	3.9	553	27	28	1800	e4.5	e4.1	721
11	.00	.37	2.3	141	4.1	337	27	25	1480	e11	e3.0	830
12	.00	62	3.0	203	4.4	412	26	23	1200	e39	e2.0	649
13	.00	e201	5.7	64	4.0	592	26	24	502	e19	e1.6	202
14	.00	102	9.7	30	4.7	494	27	20	177	e12	e1.4	91
15	.02	e38	18	21	5.7	1210	26	19	174	e8.3	e1.3	55
16	.01	e38	6.8	21	6.9	1170	29	18	169	e6.6	e1.6	41
17	15	e150	3.3	42	11	880	64	18	110	e5.8	e3.7	40
18	32	e176	2.1	197	14	471	92	17	50	e4.6	e3.3	39
19	9.5	e395	1.9	488	4.6	131	41	17	30	e3.7	e2.9	24
20	5.5	e374	3.2	620	2.2	74	34	18	22	e2.9	e2.2	17
21	.45	e165	4.9	447	1.9	49	30	19	18	e2.5	e1.8	13
22	.74	e66	5.4	105	2.1	36	29	19	29	e1.5	e1.4	44
23	5.0	e38	6.3	44	2.3	28	31	19	23	e.95	e1.3	68
24	19	e230	20	30	2.6	26	47	20	17	e.80	e1.2	69
25	5.0	e369	46	20	4.8	22	29	39	13	e.75	e1.2	27
26	24	e202	13	14	5.7	21	27	74	9.9	e.73	e1.1	18
27	10	e71	8.3	10	6.7	124	26	35	7.8	e.72	e1.1	11
28	2.4	e39	5.0	11	7.0	1030	24	23	7.1	e.74	2.7	6.9
29	4.0	e17	2.8	88	---	1300	25	18	8.9	e.81	23	4.3
30	8.6	10	2.4	208	---	1310	27	17	7.1	e.84	38	3.5
31	1.9	---	2.0	107	---	1050	---	18	---	e.87	92	---
TOTAL	156.54	2921.26	201.3	2983.0	199.4	13318.7	1813	944	8682.8	213.01	206.57	5046.7
MEAN	5.05	97.4	6.49	96.2	7.12	430	60.4	30.5	289	6.87	6.66	168
MAX	32	395	46	620	39	1310	578	115	2580	39	92	830
MIN	.00	.33	1.9	1.5	1.9	7.7	24	17	7.1	.72	.85	3.5
AC-FT	310	5790	399	5920	396	26420	3600	1870	17220	423	410	10010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

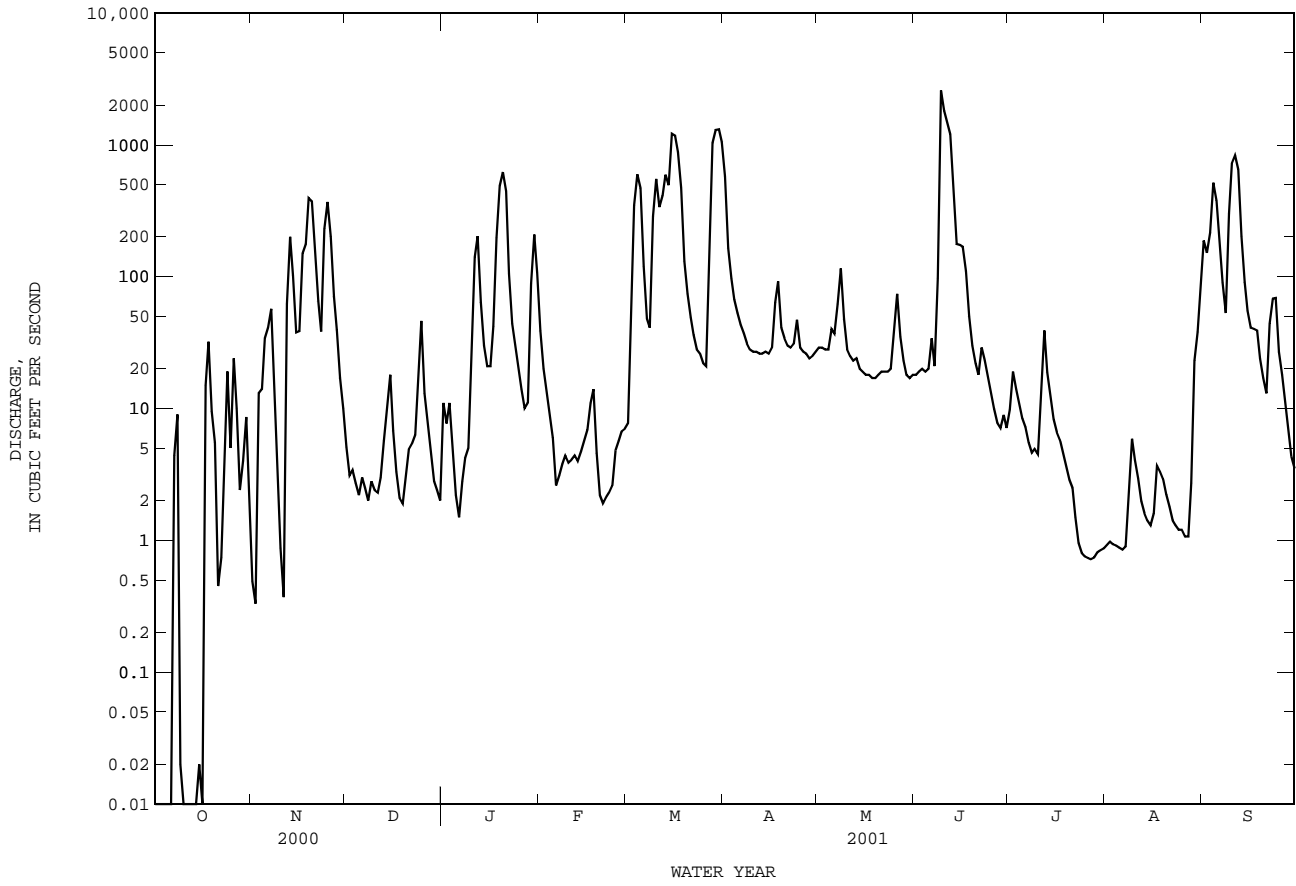
	85.2	89.3	95.2	119	105	80.3	85.2	108	129	23.4	14.9	56.2
MEAN	85.2	89.3	95.2	119	105	80.3	85.2	108	129	23.4	14.9	56.2
MAX	996	787	336	685	649	430	463	513	625	120	214	537
(WY)	1999	1999	1977	1979	1992	2001	1991	1993	1993	1979	1983	1979
MIN	.95	.27	.26	1.65	.065	1.27	.16	.35	.93	.25	.15	.86
(WY)	1989	1978	1989	1996	1976	1986	1987	1996	1988	2000	2000	1988

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1975 - 2001

ANNUAL TOTAL	6334.85	36686.28	
ANNUAL MEAN	17.3	101	82.2
HIGHEST ANNUAL MEAN			255
LOWEST ANNUAL MEAN			9.49
HIGHEST DAILY MEAN	555	May 22	2580
LOWEST DAILY MEAN	.00	Jan 19	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 17	.00
MAXIMUM PEAK FLOW			3040
MAXIMUM PEAK STAGE			46.52
ANNUAL RUNOFF (AC-FT)	12570	72770	59520
10 PERCENT EXCEEDS	38	222	169
50 PERCENT EXCEEDS	.76	18	5.7
90 PERCENT EXCEEDS	.01	1.1	.30

e Estimated

08068740 Cypress Creek at House and Hahl Road near Cypress, TX--Continued



SAN JACINTO RIVER BASIN

08068780 Little Cypress Creek near Cypress, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 30°00'57", long 95°41'50", Harris County, Hydrologic Unit 12040102, on right bank at downstream side of bridge on Cypress-Rosehill Road, 3.2 mi north of Cypress, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--41.0 mi².

PERIOD OF RECORD.--May 1982 to Sept. 1992 (daily mean discharge), Oct. 1992 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 80.00 ft above sea level, 1973 adjustment. Radio telemeter at station. Satellite telemeter at station.

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

AVERAGE DISCHARGE.--10 years (water years 1983-92) 24.0 ft³/s (17,370 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,520 ft³/s, Oct. 18, 1994, gage height, 81.41 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	1715	539	73.73	Mar. 28	1100	833	76.26
Mar. 9	1400	536	73.70	June 9	0900	3,640	80.70
Mar. 12	0900	569	74.06	Sept. 4	0900	461	72.81
Mar. 15	0915	691	75.16	Sept. 10	0645	677	75.03

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SAN JACINTO RIVER BASIN

08068800 Cypress Creek at Grant Road near Cypress, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°58'24", long 95°35'54", Harris County, Hydrologic Unit 12040102, on right bank at downstream side of bridge on Grant Road and 6.0 mi east of Cypress.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--May 1982 (discharge measurements only), Oct. 1982 to Sept. 1992 (daily mean discharge), Oct. 1992 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder. Datum of gage is 80.00 ft above sea level, 1973 adjustment. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Base flow sustained by effluent from urbanized areas and drainage from irrigated farming areas in the basin.

AVERAGE DISCHARGE.--10 years (water years 1983-92) 116 ft³/s (83,910 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s, Oct. 18, 1994, gage height, 47.38 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	2230	7,870	46.12	No other peak greater than base discharge.			

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SAN JACINTO RIVER BASIN

08068900 Cypress Creek at Stuebner-Airline Road near Westfield, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 30°00'23", long 95°30'42", Harris County, Hydrologic Unit 12040102, on right bank at downstream side of bridge on Stuebner-Airline Road, 1.3 mi upstream from Spring Gulley, and 6.5 mi west of Westfield.

DRAINAGE AREA.--248 mi².

PERIOD OF RECORD.--June 1982 to May 1986, Feb. to Sept. 1987 (gage heights and discharge measurements only), Oct. 1987 to Sept. 1989 (daily mean discharge), Oct. 1989 to Sept. 1992 (annual maximum gage height and discharge), Oct. 1992 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 70.00 ft above sea level, 1973 adjustment. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Low flow is sustained by wastewater effluent from urbanized areas and drainage from irrigated farm land.

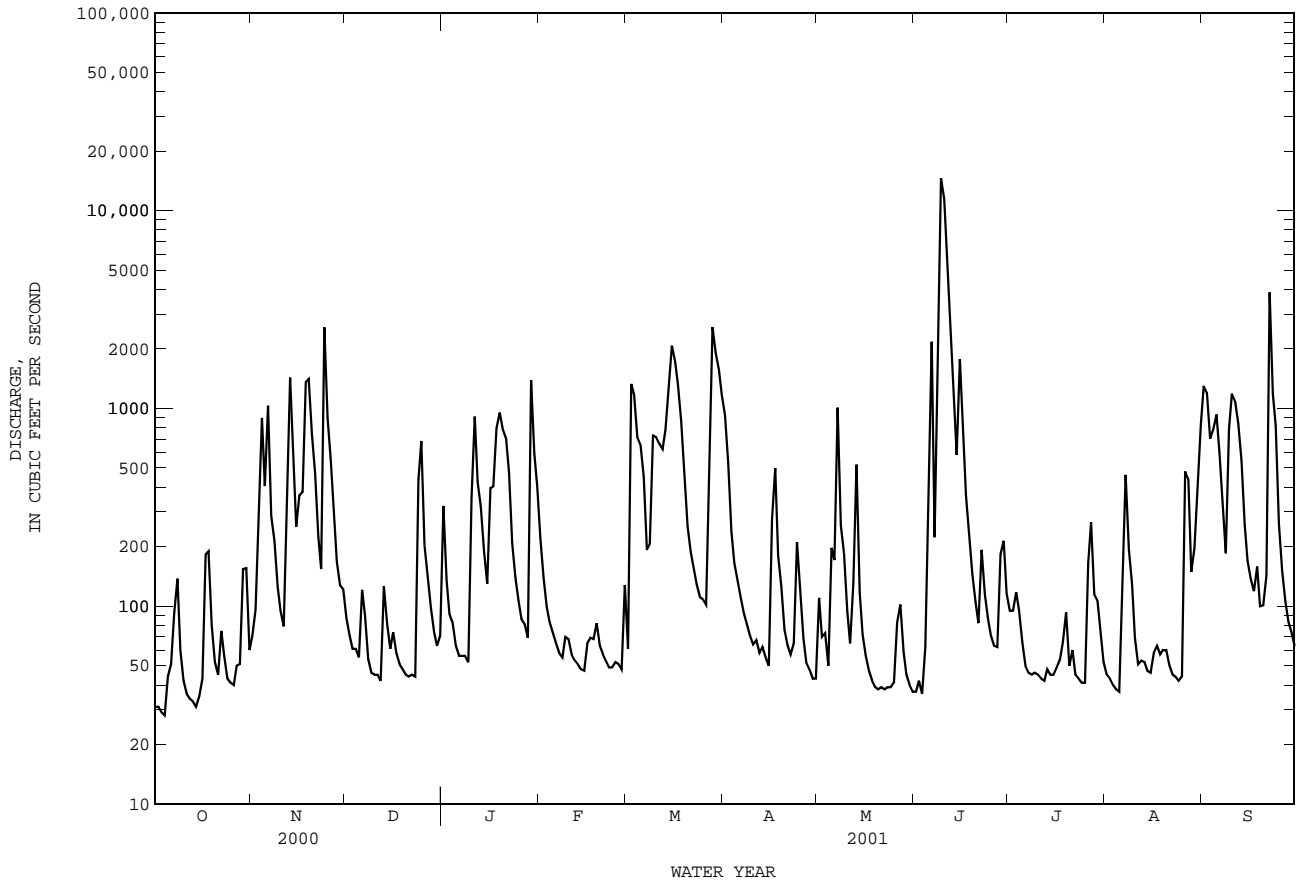
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s, June 9, 2001, gage height, 41.33 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	0345	3,060	26.31	June 6	0115	2,570	25.02
Jan. 29	0730	2,150	23.82	June 9	0600	13,800	41.33
Mar. 14	1900	2,520	24.87	June 15	1145	2,170	23.88
Mar. 28	0045	2,610	25.11	Sept. 22	0815	6,020	32.61

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08069000 Cypress Creek near Westfield, TX--Continued



SAN JACINTO RIVER BASIN

08069000 Cypress Creek near Westfield, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Mar. 1959 to Apr. 1964, Oct. 1977 to June 1978, Aug. 1983 to current year.

BIOCHEMICAL DATA: Aug. 1983 to current year.

PESTICIDE DATA: Aug. 1983 to Sept. 1990, Jun. 2000 to current year.

SEDIMENT DATA: Oct. 1976 to Sept. 1979, Oct. 1986 to Apr. 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATUR-ATION (00301)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP, WATER (COL/100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	
APR 26...	1350	66	467	7.6	23.0	80	66	766	6.5	76	160	580	70	
AUG 01...	1122	44	584	7.4	31.1	40	--	760	3.6	49	580	190	82	
DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00618)
APR 26...	22.4	3.48	64.8	3	6.84	16.6	48.3	.4	11.8	283	258	52	3.04	
AUG 01...	26.2	4.02	83.5	4	8.98	22.7	63.7	.4	16.1	354	332	52	3.62	
DATE	TIME	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, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
APR 26...	.072	3.11	.150	4.5	1.3	.85	1.00	1.4	1.09	.953	.935	2.87	9.9	
AUG 01...	.219	3.84	.279	5.2	1.1	.80	1.1	1.4	1.51	1.32	1.27	3.90	11	
DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	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)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
APR 26...	6.6	.3	<.1	4	.25	3.6	83.3	<.06	.05	E.4	.46	3.8	40	
AUG 01...	6.7	1.5	.2	9	.33	7.0	102	E.05	.04	<.8	.72	4.1	20	
DATE	TIME	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
APR 26...	.27	16.4	.01	3.2	.88	<2.4	<1.0	14	.30	<.002	<.004	.072	8.83	
AUG 01...	.32	34.1	<.01	3.5	.95	<2.0	<1.0	17	.37	<.002	<.004	<.002	.737	

08069000 Cypress Creek near Westfield, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	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)
APR 26...	<.050	<.010	<.002	E.022	<.020	.013	<.018	<.003	E.434	1.08	<.005	<.021	<.002
AUG 01...	<.050	<.010	<.002	E.012	<.020	.005	<.018	<.003	E.038	.407	<.005	<.021	<.002
DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN 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)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
APR 26...	<.009	<.005	<.003	<.004	<.035	E.013	.137	<.006	<.002	<.007	<.006	<.007	<.002
AUG 01...	<.009	<.005	<.003	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.006	<.007	<.002
DATE	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	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)
APR 26...	.023	<.011	.016	<.010	<.011	<.023	<.004	.057	<.016	<.034	<.017	<.005	<.002
AUG 01...	<.010	<.011	.019	<.010	<.011	<.023	<.004	E.002	<.016	<.034	<.017	<.005	<.002
DATE				TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	P,P' DDE DISSOLV (UG/L) (34653)	PLANK- TON BIOMASS ASH WT (MG/L) (81353)	PLANK- TON BIOMASS DRY WT (MG/L) (81354)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)			
APR 26...				<.009	<.005	<.006	<.003	370	377	.229			
AUG 01...				<.009	<.005	<.006	<.003	498	509	.521			

SAN JACINTO RIVER BASIN

08070000 East Fork San Jacinto River near Cleveland, TX

LOCATION.--Lat 30°20'11", long 95°06'14", Liberty County, Hydrologic Unit 12040103, near left bank at downstream side of bridge on State Highway 105, 1,880 ft downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.2 mi west of Cleveland, and 4.3 mi downstream from Winter Creek.

DRAINAGE AREA.--325 mi².

PERIOD OF RECORD.--Apr. 1939 to current year.

Water-quality records.--Chemical data: Sept. 1961 to Apr. 1964, Jan. 1968 to Sept. 1989. Biochemical data: Aug. 1983 to Sept. 1989. Pesticide data: Jan. to Aug. 1984.

GAGE.--Water-stage recorder. Datum of gage is 107.98 ft above sea level. Prior to Sept. 13, 1955, at site 1,800 ft upstream at datum 5.00 ft higher. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 5, 1935, reached a stage of 23.6 ft (discharge, 53,500 ft³/s), present site and datum, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

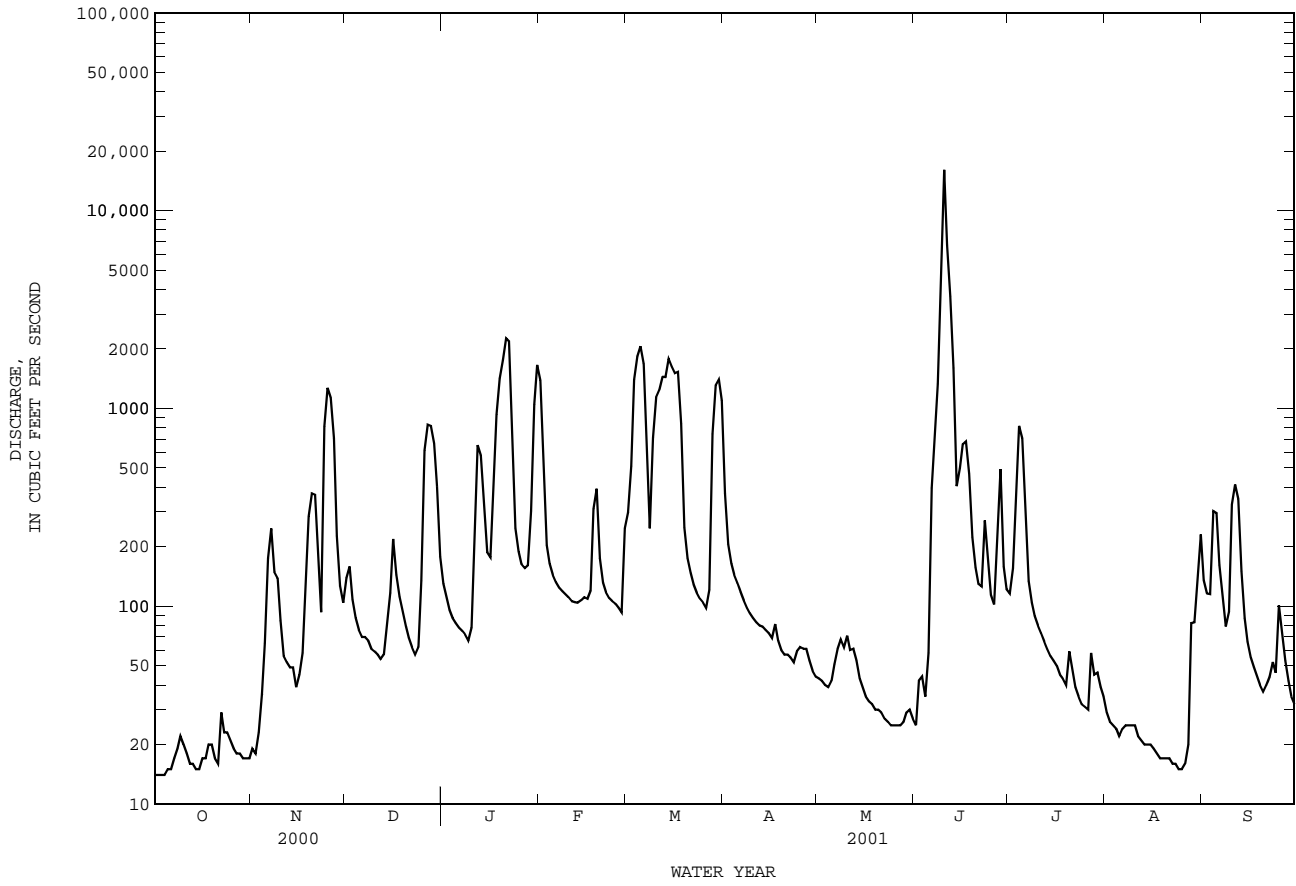
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	19	139	130	1390	298	371	43	25	116	29	135
2	14	18	159	110	464	509	206	42	42	156	26	116
3	14	23	108	96	204	1400	164	40	44	416	25	115
4	14	36	87	87	164	1830	144	39	35	815	24	303
5	15	65	76	82	144	2060	131	42	58	706	22	296
6	15	175	70	78	132	1680	118	51	395	277	24	162
7	17	247	70	75	124	557	107	61	754	134	25	111
8	19	149	67	72	119	247	98	68	1330	104	25	79
9	22	139	61	67	115	711	92	62	5950	89	25	94
10	20	85	59	78	111	1140	87	71	16100	80	25	327
11	18	56	57	293	106	1240	83	60	6690	73	22	412
12	16	52	54	651	105	1450	80	61	3690	66	21	349
13	16	49	57	579	104	1440	79	53	1600	61	20	150
14	15	49	84	313	107	1790	76	43	404	56	20	87
15	15	39	117	188	111	1630	73	39	499	53	20	66
16	17	45	219	177	109	1510	69	35	658	50	19	55
17	17	58	144	423	120	1530	81	33	682	45	18	49
18	20	131	112	932	310	837	67	32	468	43	17	44
19	20	285	94	1420	392	250	60	30	224	40	17	40
20	17	371	79	1760	175	175	57	30	157	59	17	37
21	16	366	69	2260	131	147	57	29	130	47	17	40
22	29	175	62	2190	118	129	55	27	126	39	16	44
23	23	93	57	692	110	117	52	26	271	35	16	52
24	23	811	62	248	106	109	59	25	178	32	15	46
25	21	1270	134	189	103	104	62	25	114	31	15	101
26	19	1130	613	163	98	98	61	25	102	30	16	75
27	18	707	828	156	93	121	61	25	199	58	20	53
28	18	226	816	161	248	743	53	26	492	45	82	42
29	17	127	667	303	---	1310	47	29	159	46	83	35
30	17	104	404	1050	---	1400	44	30	122	39	144	32
31	17	---	178	1660	---	1100	---	27	---	35	230	---
TOTAL	553	7100	5803	16683	5613	27662	2794	1229	41698	3876	1095	3547
MEAN	17.8	237	187	538	200	892	93.1	39.6	1390	125	35.3	118
MAX	29	1270	828	2260	1390	2060	371	71	16100	815	230	412
MIN	14	18	54	67	93	98	44	25	25	30	15	32
AC-FT	1100	14080	11510	33090	11130	54870	5540	2440	82710	7690	2170	7040
CFSM	.05	.73	.58	1.66	.62	2.75	.29	.12	4.28	.38	.11	.36
IN.	.06	.81	.66	1.91	.64	3.17	.32	.14	4.77	.44	.13	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	162	292	267	385	385	280	338	290	282	88.7	50.7	84.0
MAX	2964	3101	1613	1745	1336	892	2302	1473	2023	676	939	894
(WY)	1995	1941	1941	1998	1992	2001	1945	1983	1973	1989	1983	1961
MIN	5.61	9.58	14.6	13.0	20.2	17.1	15.5	18.1	12.0	5.70	5.51	4.46
(WY)	1957	1957	1957	1957	1971	1971	1971	1963	1954	1971	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	27658.9		117653			
ANNUAL MEAN	75.6		322		240	
HIGHEST ANNUAL MEAN					733	
LOWEST ANNUAL MEAN					22.8	
HIGHEST DAILY MEAN	1270	Nov 25	16100	Jun 10	44200	Oct 18 1994
LOWEST DAILY MEAN	9.9	Sep 8	14	Oct 1	3.0	Aug 23 1956
ANNUAL SEVEN-DAY MINIMUM	11	Sep 3	15	Oct 1	3.2	Aug 19 1956
MAXIMUM PEAK FLOW			19900	Jun 10	63000	Oct 18 1994
MAXIMUM PEAK STAGE			19.92	Jun 10	24.57	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	54860		233400		174100	
ANNUAL RUNOFF (CFSM)	.23		.99		.74	
ANNUAL RUNOFF (INCHES)	3.17		13.47		10.05	
10 PERCENT EXCEEDS	139		777		484	
50 PERCENT EXCEEDS	34		82		49	
90 PERCENT EXCEEDS	14		20		14	

08070000 East Fork San Jacinto River near Cleveland, TX--Continued



SAN JACINTO RIVER BASIN

08070200 East Fork San Jacinto River near New Caney, TX

LOCATION.--Lat 30°08'43", long 95°07'27", Montgomery County, Hydrologic Unit 12040103, on right bank at downstream side of bridge on Farm Road 1485, 1.0 mi upstream from Church House Gully, 5.5 mi east of New Caney, and 5.9 mi upstream from Caney Creek.

DRAINAGE AREA.--388 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1952 to Sept. 1958 and Oct. 1969 to Sept. 1976 and Oct. 1983 to Apr. 1984 (occasional low-flow measurements), May 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 43.98 ft above sea level (Texas Department of Transportation benchmark). Radio telemeter at station. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1973 reached a stage of 29.6 ft, from floodmark on left bank, identified by local resident. Flood in Nov. 1940 may have been slightly higher.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

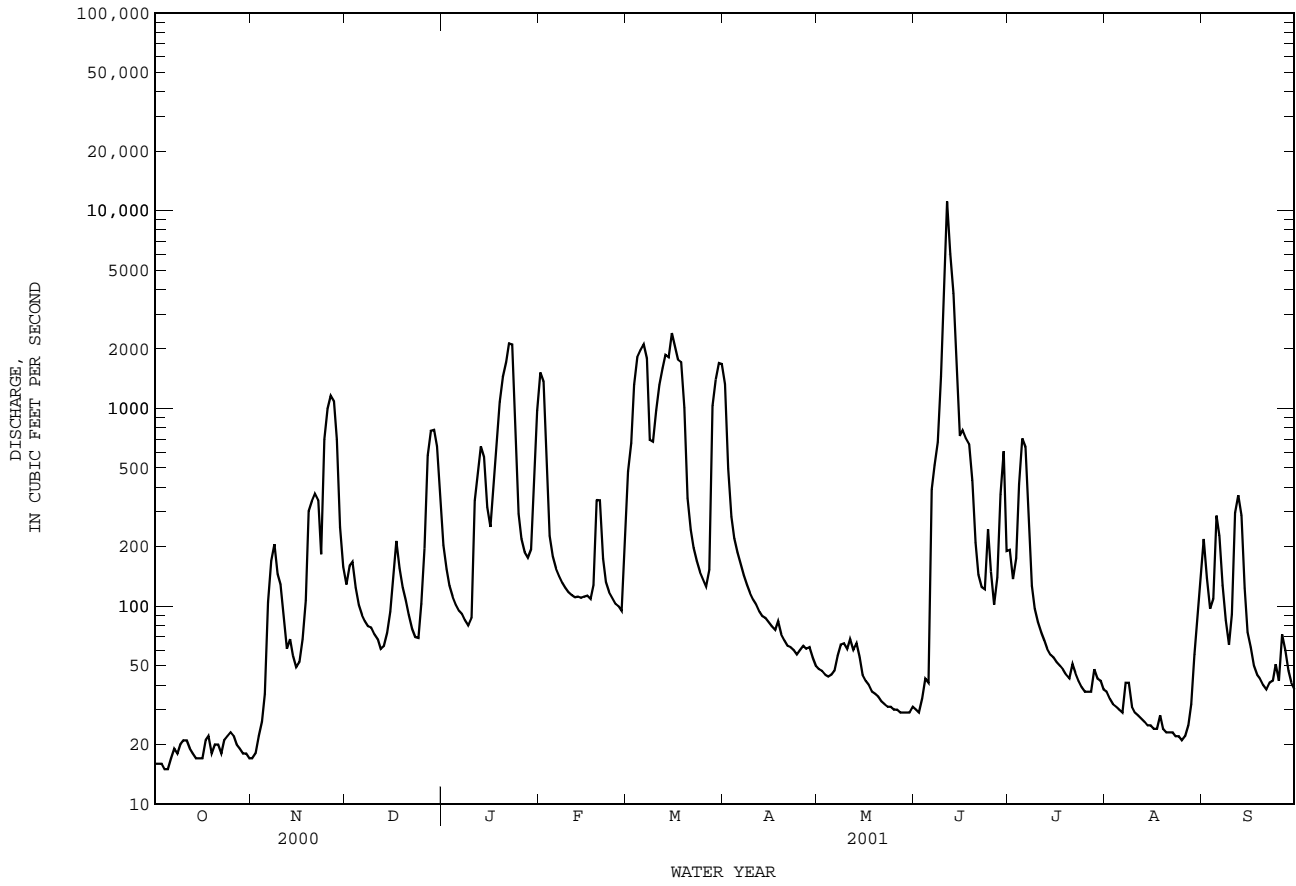
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	129	204	1520	481	1330	48	30	193	37	219
2	16	18	160	154	1370	670	495	47	29	137	34	139
3	16	22	167	127	487	1320	284	45	34	175	32	97
4	15	26	124	112	227	1820	220	44	43	414	31	109
5	15	36	101	102	178	1970	187	45	41	706	30	287
6	17	105	90	95	155	2110	164	47	390	640	29	227
7	19	170	84	91	142	1790	143	56	517	250	41	128
8	18	206	79	85	131	695	128	64	677	127	41	85
9	20	145	78	80	124	680	117	65	1450	97	31	64
10	21	129	72	87	118	979	108	61	4890	83	29	91
11	21	86	68	342	114	1320	102	68	11100	74	28	297
12	19	61	61	460	111	1600	94	60	6060	67	27	365
13	18	68	63	643	112	1870	89	65	3810	61	26	288
14	17	56	73	567	110	1820	87	55	1870	57	25	123
15	17	49	94	318	112	2400	83	45	725	55	25	74
16	17	52	137	252	113	2040	79	42	777	52	24	62
17	21	68	214	375	109	1770	76	40	707	50	24	50
18	22	107	156	623	128	1720	84	37	661	48	28	45
19	18	303	124	1080	344	1010	72	36	431	45	24	43
20	20	340	106	1450	343	353	67	35	210	43	23	40
21	20	371	90	1710	174	244	63	33	144	51	23	38
22	18	345	77	2130	132	197	62	32	125	46	23	41
23	21	183	70	2110	118	169	60	31	122	42	22	42
24	22	700	69	820	110	149	57	31	245	39	22	51
25	23	998	103	294	103	136	60	30	150	37	21	42
26	22	1160	196	219	100	126	63	30	102	37	22	72
27	20	1090	579	188	95	153	61	29	140	37	25	60
28	19	700	770	176	247	1030	62	29	368	48	32	47
29	18	252	780	194	---	1400	55	29	607	43	57	41
30	18	158	644	440	---	1700	50	29	190	42	87	38
31	17	---	378	976	---	1680	---	31	---	38	147	---
TOTAL	581	8021	5936	16504	7127	35402	4602	1339	36645	3834	1070	3305
MEAN	18.7	267	191	532	255	1142	153	43.2	1222	124	34.5	110
MAX	23	1160	780	2130	1520	2400	1330	68	11100	706	147	365
MIN	15	17	61	80	95	126	50	29	29	37	21	38
AC-FT	1150	15910	11770	32740	14140	70220	9130	2660	72690	7600	2120	6560
CFSM	.05	.69	.49	1.37	.66	2.94	.40	.11	3.15	.32	.09	.28
IN.	.06	.77	.57	1.58	.68	3.39	.44	.13	3.51	.37	.10	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	323	326	386	557	501	510	320	288	403	140	43.5	63.3						
MAX	2843	2892	1036	1857	1557	1142	958	1330	1596	849	189	186						
(WY)	1995	1999	1998	1998	1992	2001	1991	1989	1986	1989	1995	1996						
MIN	15.7	20.6	31.2	41.0	40.7	40.8	68.8	42.3	28.5	18.0	14.5	17.6						
(WY)	1989	1991	1990	2000	2000	2000	1986	1996	1996	1998	2000	1988						

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1984 - 2001
ANNUAL TOTAL	30723.1	124366	
ANNUAL MEAN	83.9	341	322
HIGHEST ANNUAL MEAN			660
LOWEST ANNUAL MEAN			53.9
HIGHEST DAILY MEAN	1160	Nov 26	46600
LOWEST DAILY MEAN	9.5	Sep 8	9.5
ANNUAL SEVEN-DAY MINIMUM	10	Sep 4	10
MAXIMUM PEAK FLOW			74100
MAXIMUM PEAK STAGE			33.00
ANNUAL RUNOFF (AC-FT)	60940	246700	233000
ANNUAL RUNOFF (CFSM)	.22	.88	.83
ANNUAL RUNOFF (INCHES)	2.95	11.92	11.26
10 PERCENT EXCEEDS	164	977	769
50 PERCENT EXCEEDS	39	90	81
90 PERCENT EXCEEDS	15	22	24

08070200 East Fork San Jacinto River near New Caney, TX--Continued



SAN JACINTO RIVER BASIN

08070200 East Fork San Jacinto River near New Caney, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Aug. 1983 to current year.
 BIOCHEMICAL DATA: Aug. 1983 to current year.
 PESTICIDE DATA: Aug. 1985 to Sept. 1990, Jun 2000 to current year.
 SEDIMENT DATA: June 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1984 to Sept. 1999.
 WATER TEMPERATURE: June 1984 to Sept. 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATUR- (MG/L) (00301)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	
APR 26...	1057	65	228	6.9	19.0	60	34	768	7.7	82	28	180	56	
AUG 01...	1405	37	186	7.2	29.3	25	--	760	7.5	98	48	150	46	
DATE	TIME	HARD-NESS NONCARE DIS-SOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDE (MG/L) (00530)
APR 26...	19	18.4	2.41	18.5	1	1.47	6.5	35.2	E.1	16.6	146	122	22	
AUG 01...	13	14.9	2.01	15.6	1	1.76	4.5	28.3	<.2	12.3	115	100	13	
DATE	TIME	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)
APR 26...	.195	.007	.202	<.041	.59	.28	.39	.084	.022	<.018	6.4	5.0	--	
AUG 01...	--	<.006	.152	<.040	.50	.20	.35	.070	.019	<.020	5.6	4.0	.8	
DATE	TIME	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	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)	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)
APR 26...	--	4	.05	<2.0	74.5	E.03	.10	<.8	.44	.9	140	.12	54.1	
AUG 01...	<.1	5	.07	E1.2	65.8	E.04	<.04	<.8	.34	.8	20	E.06	61.1	
DATE	TIME	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	2,6-DI-ETHYL ANILINE WAT FLT (UG/L) (82660)	ACETO-CHLOR, WATER REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ATRA-ZINE, WATER, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT (UG/L) (82686)	BEN-FLUR-ALIN WAT FLT (UG/L) (82673)
APR 26...	<.01	.3	.65	<2.4	<1.0	2	.09	<.002	<.004	<.002	<.007	<.050	<.010	
AUG 01...	<.01	.2	.49	<2.0	<1.0	2	.05	<.002	<.004	<.002	<.007	<.050	<.010	

08070200 East Fork San Jacinto River near New Caney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	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)
APR 26...	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005
AUG 01...	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005
DATE	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PARA- THION, DIS- SOLVED (UG/L) (39542)	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)
APR 26...	<.003	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.006	<.007	<.002	<.010	<.011
AUG 01...	<.003	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.006	<.007	<.002	<.010	<.011
DATE	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ALPHA BHC DIS- SOLVED (UG/L) (34253)
APR 26...	<.015	<.010	<.011	<.023	<.004	<.011	<.016	<.034	<.017	<.005	<.002	<.009	<.005
AUG 01...	<.015	<.010	<.011	<.023	<.004	<.011	<.016	<.034	<.017	<.005	<.002	<.009	<.005
DATE	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	P, P' DDE DISSOLV (UG/L) (34653)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PLANK- TON BIOMASS ASH WT (MG/L) (81353)	PLANK- TON BIOMASS DRY WT (MG/L) (81354)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)					
APR 26...		<.006	<.003			--	--	.186					
AUG 01...		<.006	<.003			280	284	.270					

SAN JACINTO RIVER BASIN

08070500 Caney Creek near Splendora, TX

LOCATION.--Lat 30°15'34", long 95°18'08", Montgomery County, Hydrologic Unit 12040103, on left bank at downstream side of bridge on Farm Road 2090, 4 mi downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, and 8 mi west of Splendora.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--Jan. 1944 to current year. Monthly discharge only for some periods, published in WSP 1312.

Water-quality records.--Chemical data: Oct. 1962 to Apr. 1964, Aug. 1983 to Sept. 1999. Biochemical data: Aug. 1983 to Sept. 1999. Pesticide data: Aug. 1983 to Sept. 1990. Sediment data: Feb. 1966, Apr. 1973 to Mar. 1975.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 118.44 ft above sea level. Prior to June 17, 1965, at site 170 ft upstream at datum 5.00 ft higher. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, 27.0 ft in Nov. 1940, present site and datum, from information by local resident. Flood in May 1935 reached a stage of 24.3 ft, present site and datum, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	38	32	73	197	81	25	15	167	25	40
2	10	13	38	32	54	347	65	25	15	499	25	39
3	9.8	15	37	30	47	1190	58	24	14	196	24	29
4	9.7	43	34	28	42	732	54	23	14	195	23	59
5	9.4	42	34	27	39	213	50	23	16	226	22	132
6	9.5	37	33	26	36	99	46	32	207	72	22	55
7	11	41	34	26	33	68	42	33	631	52	27	35
8	15	26	34	26	29	65	40	40	474	44	28	29
9	14	22	33	25	28	462	38	31	18800	40	27	63
10	13	20	33	28	29	294	36	27	5380	38	25	385
11	12	16	33	168	28	199	34	25	1360	37	23	101
12	11	16	33	167	27	411	33	24	220	35	23	46
13	11	22	34	60	27	971	33	23	141	34	22	36
14	11	23	45	45	26	248	32	22	103	32	22	31
15	11	18	43	39	25	707	31	22	194	32	22	29
16	11	33	43	40	26	385	33	21	328	32	21	27
17	15	26	39	93	40	129	48	21	124	31	21	26
18	14	38	35	248	41	85	33	21	77	30	20	25
19	13	91	33	805	29	69	29	20	61	36	20	24
20	12	71	33	556	26	59	28	20	53	35	20	24
21	11	34	32	114	25	54	27	20	48	31	19	25
22	13	26	32	69	24	50	27	19	45	31	19	38
23	31	24	31	55	22	47	95	18	43	31	19	27
24	26	597	32	48	21	45	184	18	41	30	19	26
25	17	771	63	43	21	44	61	18	38	31	19	28
26	14	98	216	40	19	41	38	18	36	30	20	26
27	13	53	86	40	18	69	32	18	56	48	21	24
28	12	42	61	42	227	539	28	19	51	36	25	23
29	12	40	49	231	---	768	27	19	51	44	26	23
30	13	39	39	707	---	201	25	18	51	33	33	22
31	14	---	34	142	---	113	---	16	---	27	41	---
TOTAL	409.4	2350	1394	4032	1082	8901	1388	703	28687	2235	723	1497
MEAN	13.2	78.3	45.0	130	38.6	287	46.3	22.7	956	72.1	23.3	49.9
MAX	31	771	216	805	227	1190	184	40	18800	499	41	385
MIN	9.4	13	31	25	18	41	25	16	14	27	19	22
AC-FT	812	4660	2760	8000	2150	17660	2750	1390	56900	4430	1430	2970
CFSM	.13	.75	.43	1.24	.37	2.73	.44	.22	9.11	.69	.22	.48
IN.	.15	.83	.49	1.43	.38	3.15	.49	.25	10.16	.79	.26	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001h, BY WATER YEAR (WY)

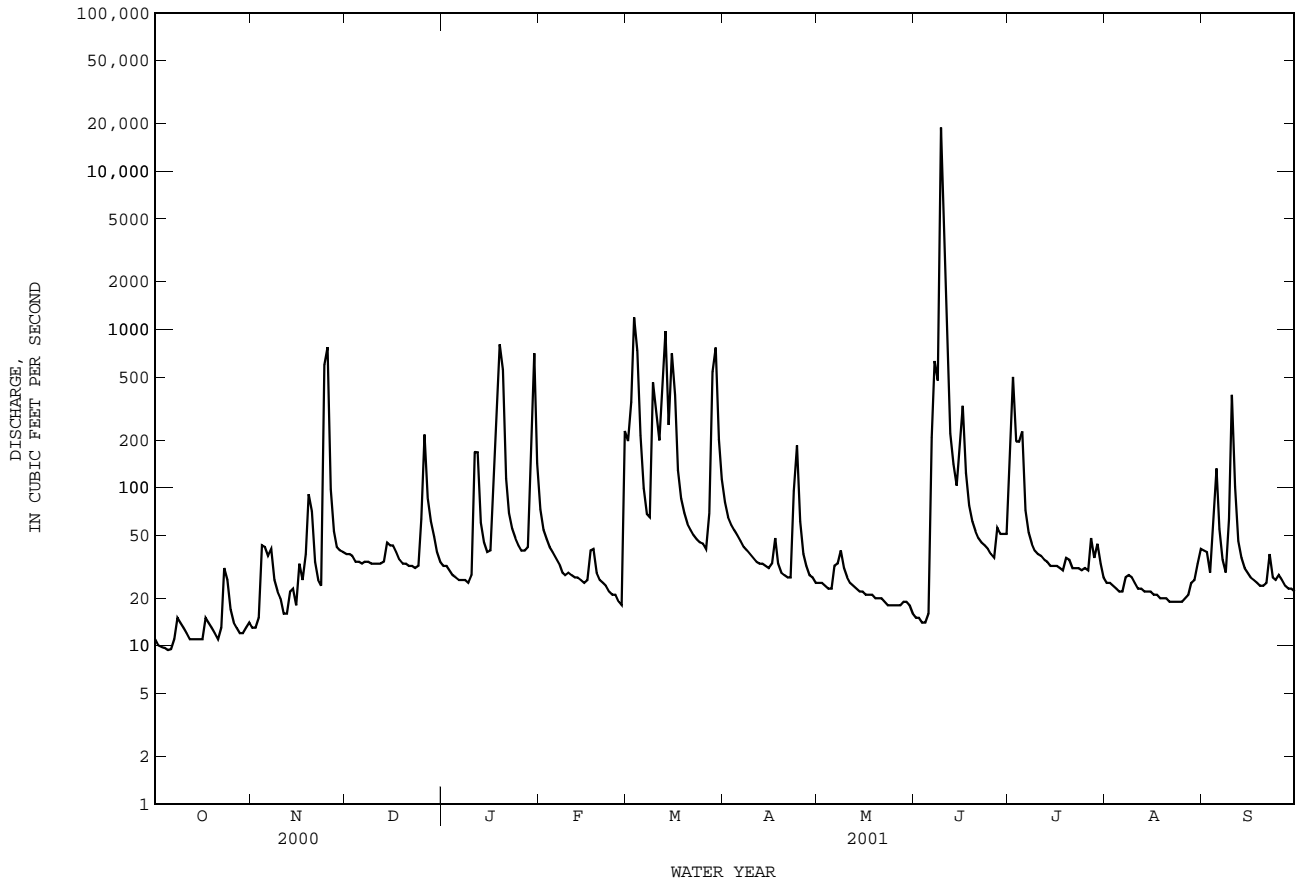
	MEAN	68.1	86.6	85.2	122	120	90.7	106	98.2	108	38.3	27.6	38.4
MAX	895	853	277	497	368	287	606	542	956	190	262	296	
(WY)	1995	1999	1977	1995	1961	2001	1945	1983	2001	1979	1983	1961	
MIN	6.57	8.20	10.5	10.7	13.6	12.2	13.6	13.8	10.1	7.28	6.69	5.91	
(WY)	1957	1957	1957	1957	1971	1971	1971	1956	1954	1971	1956	1956	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1944 - 2001h

ANNUAL TOTAL	10983.5	53401.4	
ANNUAL MEAN	30.0	146	82.0
HIGHEST ANNUAL MEAN			192
LOWEST ANNUAL MEAN			15.9
HIGHEST DAILY MEAN	771	Nov 25	18800
LOWEST DAILY MEAN	8.1	Jul 25	9.4
ANNUAL SEVEN-DAY MINIMUM	8.6	Jul 21	10
MAXIMUM PEAK FLOW			36500
MAXIMUM PEAK STAGE			26.45
ANNUAL RUNOFF (AC-FT)	21790		59440
ANNUAL RUNOFF (CFSM)	.29		1.39
ANNUAL RUNOFF (INCHES)	3.89		18.92
10 PERCENT EXCEEDS	39		196
50 PERCENT EXCEEDS	22		33
90 PERCENT EXCEEDS	11		16

h See PERIOD OF RECORD paragraph.

08070500 Caney Creek near Splendora, TX--Continued



SAN JACINTO RIVER BASIN

08071000 Peach Creek at Splendora, TX

LOCATION.--Lat 30°13'57", long 95°10'05", Montgomery County, Hydrologic Unit 12040103, on left bank at downstream side of bridge on Farm Road 2090, about 1500 ft west of depot at Splendora, 2.5 mi upstream from Texas and New Orleans Railroad Co. bridge, 2.5 mi upstream from bridge on U.S. Highway 59, and 9.7 mi upstream from Caney Creek.

DRAINAGE AREA.--117 mi².

PERIOD OF RECORD.--Jan. 1944 to Sept. 1977, Apr. 1999 to current. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 81.61 ft above sea level. Prior to Oct. 1, 1965, datum at same site and at datum 5.00 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. No known regulation or diversions.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1895, occurred Oct. 8, 1949. Flood in Nov. 1940 reached a stage of 22.3 ft, discharge 24,700 ft³/s, from information by local resident. Flood of June 12, 1986 reached a stage of 20.92 ft, discharge 15,700 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	51	39	135	213	142	31	23	121	25	58
2	10	15	49	42	86	515	111	31	22	160	24	57
3	10	16	49	40	72	1260	97	31	22	147	23	50
4	11	20	42	36	65	1020	93	30	22	84	22	43
5	11	44	39	36	60	430	87	32	24	106	23	69
6	11	55	37	36	56	179	78	37	250	146	24	81
7	13	47	39	34	55	123	70	69	317	73	28	48
8	13	43	43	33	53	107	64	70	277	58	25	36
9	14	24	39	32	53	335	60	60	1670	50	27	40
10	17	22	35	35	52	498	56	42	5450	46	26	104
11	14	20	34	180	49	261	53	34	1340	43	24	92
12	13	19	33	196	49	759	51	31	371	40	23	47
13	13	21	34	108	51	962	53	31	165	38	22	33
14	12	24	46	73	51	473	52	30	114	37	22	e31
15	12	24	59	68	50	798	48	27	202	34	22	e28
16	12	24	50	71	50	704	45	26	345	34	22	e27
17	13	34	52	141	49	313	78	25	230	34	21	27
18	15	57	41	219	52	158	74	24	122	31	20	26
19	18	124	35	719	44	122	52	24	85	30	18	26
20	14	113	33	459	42	103	45	24	72	29	17	25
21	12	e72	31	214	42	88	42	24	63	29	17	24
22	12	32	30	117	42	81	41	23	59	28	16	27
23	16	27	29	92	41	79	39	23	58	27	16	31
24	19	438	30	80	40	73	65	22	53	25	15	37
25	20	820	65	72	41	71	86	22	50	25	15	34
26	16	364	102	66	40	70	59	22	61	25	15	31
27	14	128	82	65	37	104	44	22	107	25	17	27
28	14	68	69	71	260	691	38	22	242	33	18	25
29	13	59	57	125	---	761	35	23	246	33	26	24
30	13	55	47	335	---	462	33	25	102	29	41	23
31	14	---	41	249	---	224	---	25	---	29	57	---
TOTAL	420	2825	1423	4083	1717	12037	1891	962	12164	1649	711	1231
MEAN	13.5	94.2	45.9	132	61.3	388	63.0	31.0	405	53.2	22.9	41.0
MAX	20	820	102	719	260	1260	142	70	5450	160	57	104
MIN	10	15	29	32	37	70	33	22	22	25	15	23
AC-FT	833	5600	2820	8100	3410	23880	3750	1910	24130	3270	1410	2440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001h, BY WATER YEAR (WY)

MEAN	61.4	72.4	73.4	111	110	86.7	96.8	87.6	87.1	38.9	23.4	34.7
MAX	908	850	333	629	449	388	488	319	799	271	129	342
(WY)	1950	1947	1975	1974	1961	2001	1945	1953	1973	1973	1945	1961
MIN	2.75	5.54	10.6	10.6	14.3	11.4	9.15	10.9	7.31	3.66	3.12	2.46
(WY)	1957	1957	1957	1957	1971	1971	1971	1956	1971	1971	1956	1956

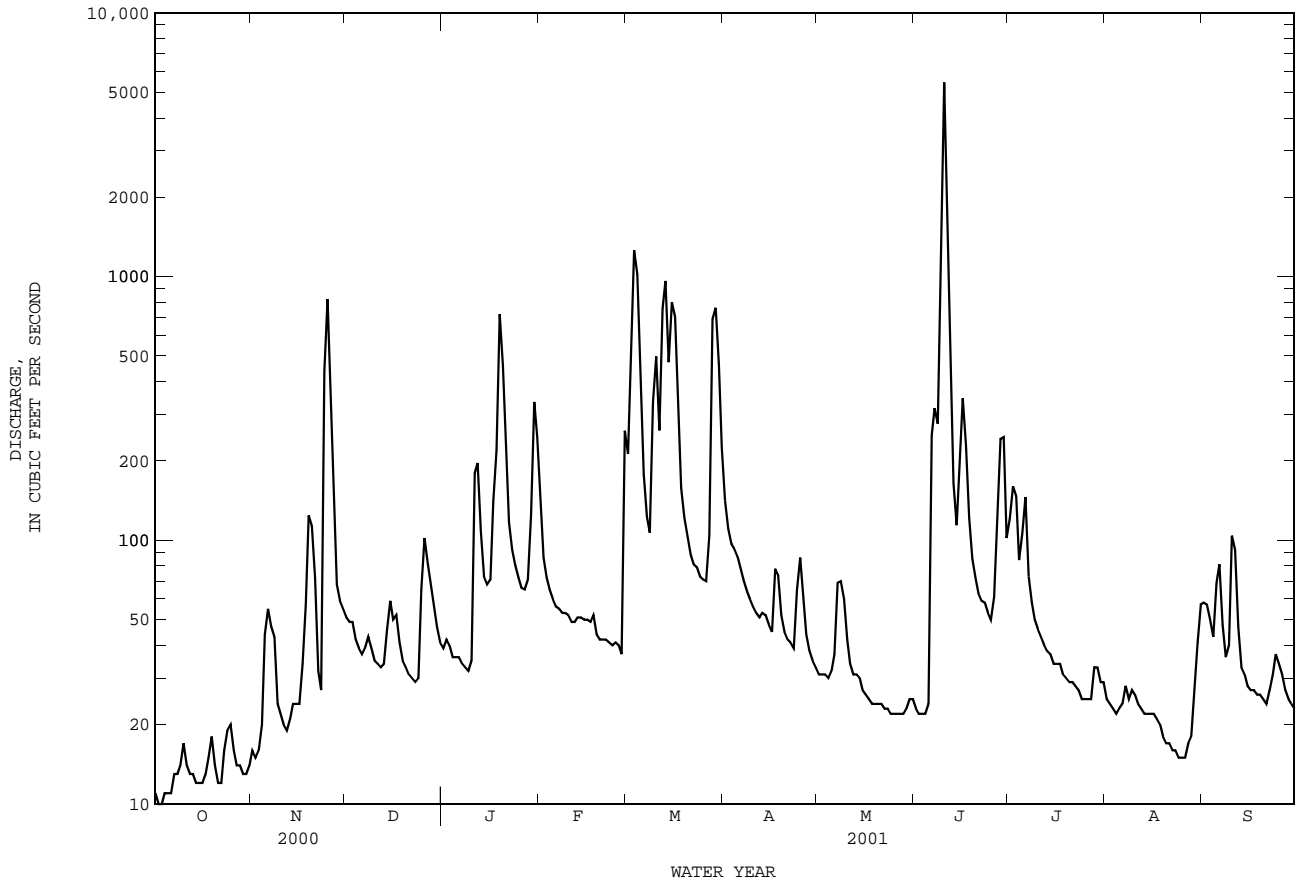
SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001h	
ANNUAL TOTAL	12413		41113			
ANNUAL MEAN	33.9		113		73.3	
HIGHEST ANNUAL MEAN					213	
LOWEST ANNUAL MEAN					13.7	
HIGHEST DAILY MEAN	820		5450		14400	
LOWEST DAILY MEAN	10		10		1.1	
ANNUAL SEVEN-DAY MINIMUM	11		11		1.2	
MAXIMUM PEAK FLOW			7090		28500	
MAXIMUM PEAK STAGE			18.23		22.73	
ANNUAL RUNOFF (AC-FT)	24620		81550		53100	
10 PERCENT EXCEEDS	50		221		126	
50 PERCENT EXCEEDS	21		41		25	
90 PERCENT EXCEEDS	11		17		8.3	

e Estimated

h see PERIOD OF RECORD paragraph.

08071000 Peach Creek at Splendora, TX--Continued



SAN JACINTO RIVER BASIN

08071280 Luce Bayou above Lake Houston near Huffman, TX

LOCATION.--Lat 30°06'34", long 95°03'35", Liberty County, Hydrologic Unit 12040103, on left bank, in Tricontinental Pipeline Co. right-of-way, 1.1 mi upstream from Key Gully, 3.1 mi east of Huffman-Cleveland Road, and 6.3 mi northeast of Huffman.

DRAINAGE AREA.--218 mi².

PERIOD OF RECORD.--Water years, 1970, 1972, 1975 (occasional low-flow measurements, at site 2.2 mi downstream), Feb. to Apr. 1984 (discharge measurements only), May 1984 to current year.

Water-quality records.--Chemical data: Feb. 1984 to Sept. 1999. Biochemical data: Feb. 1984 to Sept. 1999. Pesticide data: Feb. 1984 to Sept. 1990.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 39.91 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation. There are diversions above station for irrigation, but amounts are unknown. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.20	65	52	157	274	774	.47	.04	104	.74	137
2	.05	.12	54	42	112	505	367	.48	.04	75	.37	126
3	.04	.10	41	29	78	850	125	.40	.04	60	.22	101
4	.03	.09	27	21	61	1180	87	.31	.04	37	.14	119
5	.02	.21	23	16	50	1580	73	.97	8.5	19	.22	193
6	.01	24	20	12	38	1330	62	2.6	373	13	.27	136
7	.01	76	16	9.6	26	917	52	4.2	387	59	.08	80
8	.01	100	12	8.4	18	455	42	4.6	410	62	.05	51
9	.01	77	9.7	7.1	15	475	26	12	653	34	1.5	25
10	.00	56	9.0	18	13	416	17	8.4	816	16	10	19
11	.00	30	7.4	319	11	449	12	3.3	1060	9.6	6.2	44
12	.00	11	5.8	400	10	496	9.4	1.7	1260	6.2	2.7	32
13	.00	8.8	5.7	363	9.3	509	7.4	61	852	4.3	1.4	17
14	.00	6.8	11	255	8.3	642	6.1	74	228	3.7	.83	8.5
15	.00	36	11	152	7.5	1170	5.1	21	95	2.8	.53	4.8
16	.00	39	19	157	7.6	1220	4.4	6.6	116	2.0	.35	2.9
17	1.3	49	18	394	7.2	1040	3.4	2.9	146	1.5	.20	2.5
18	.67	107	12	439	6.5	852	2.6	1.3	107	1.4	.12	2.4
19	.26	205	11	485	6.5	546	4.2	.76	71	9.8	.08	1.4
20	.20	222	11	503	6.1	182	3.7	.47	45	4.8	.06	1.0
21	.15	131	9.7	497	5.0	87	2.3	.34	22	2.0	.05	.80
22	.67	60	8.7	491	4.4	70	1.5	.23	13	1.4	.04	39
23	.54	45	7.4	438	3.8	57	2.1	.16	19	.73	.03	90
24	38	384	7.3	185	3.5	48	3.2	.10	46	.40	.03	150
25	26	652	15	89	3.1	35	2.6	.08	60	.36	.02	113
26	1.2	825	31	73	2.8	23	1.8	.07	40	.29	.02	76
27	3.0	1030	63	65	2.7	39	1.2	.12	40	.24	5.6	37
28	1.7	702	69	60	92	560	.79	.10	130	.38	30	17
29	.81	205	72	68	---	827	.64	.07	326	.25	35	9.9
30	.48	66	69	91	---	985	.49	.06	402	.61	64	5.2
31	.32	---	59	143	---	1000	---	.05	---	1.1	92	---
TOTAL	75.56	5148.32	799.7	5882.1	765.3	18819	1699.92	208.84	7725.66	532.86	252.85	1641.40
MEAN	2.44	172	25.8	190	27.3	607	56.7	6.74	258	17.2	8.16	54.7
MAX	38	1030	72	503	157	1580	774	74	1260	104	92	193
MIN	.00	.09	5.7	7.1	2.7	23	.49	.05	.04	.24	.02	.80
AC-FT	150	10210	1590	11670	1520	37330	3370	414	15320	1060	502	3260
CFSM	.01	.79	.12	.87	.13	2.78	.26	.03	1.18	.08	.04	.25
IN.	.01	.88	.14	1.00	.13	3.21	.29	.04	1.32	.09	.04	.28

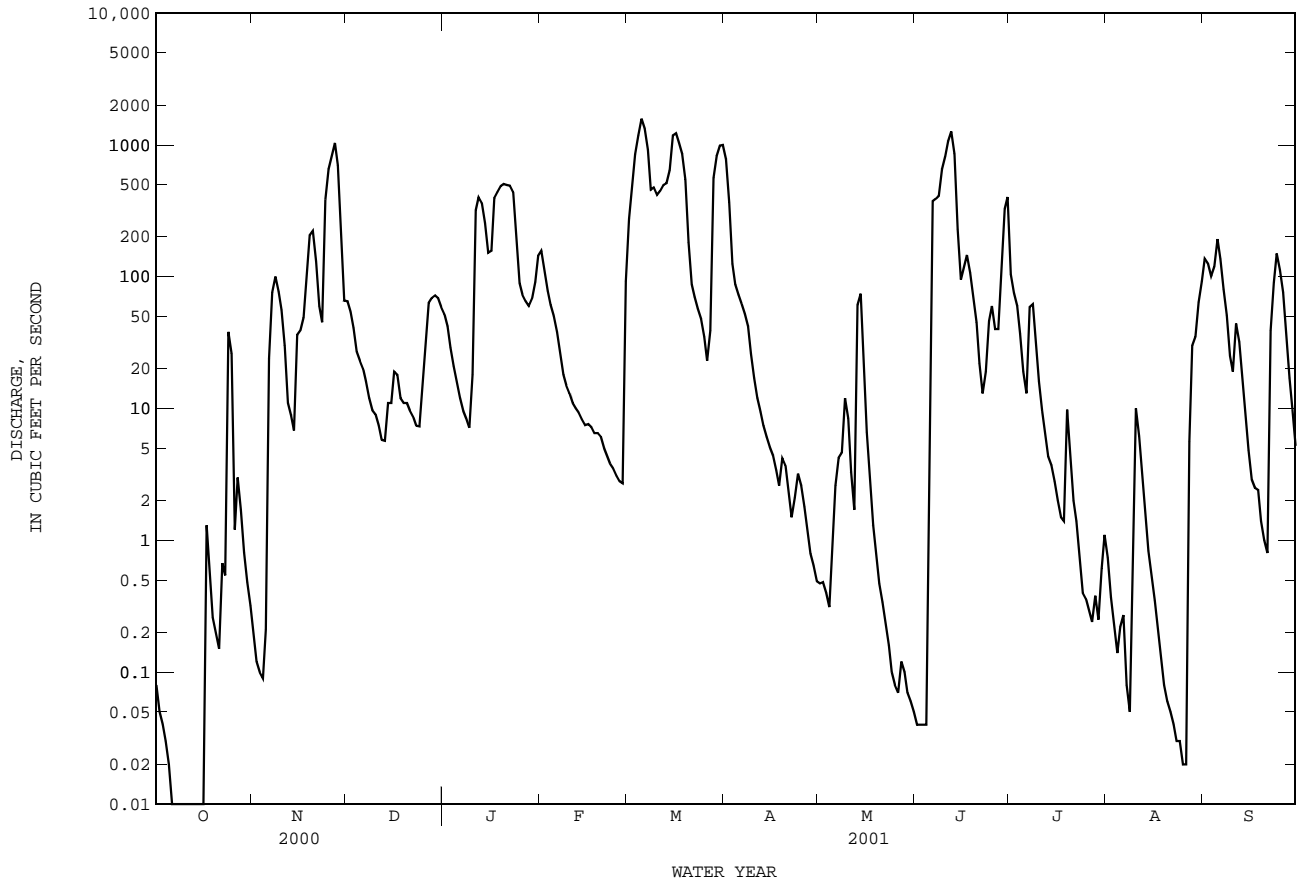
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	309	164	240	251	272	336	197	213	341	49.6	9.87	42.9						
MAX	2988	1416	862	826	980	878	1047	2443	1965	334	103	394						
(WY)	1995	1999	1998	1992	1992	1993	1991	1989	1993	1987	1995	1996						
MIN	.009	.17	1.43	1.06	1.34	1.62	3.06	.57	.12	.008	.35	.034						
(WY)	1993	1989	1989	2000	2000	2000	1987	1998	1998	1998	1999	1992						

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1984 - 2001

ANNUAL TOTAL	10719.89	43551.51		
ANNUAL MEAN	29.3	119	205	
HIGHEST ANNUAL MEAN			453	1995
LOWEST ANNUAL MEAN			13.2	2000
HIGHEST DAILY MEAN	1030	Nov 27	1580	Mar 5
LOWEST DAILY MEAN	.00	Jul 29	.00	Oct 10
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	.00	Oct 10
MAXIMUM PEAK FLOW			1650	Mar 5
MAXIMUM PEAK STAGE			21.53	Mar 5
ANNUAL RUNOFF (AC-FT)	21260		86380	
ANNUAL RUNOFF (CFSM)	.13		.55	.94
ANNUAL RUNOFF (INCHES)	1.83		7.43	12.75
10 PERCENT EXCEEDS	50		438	388
50 PERCENT EXCEEDS	1.1		12	8.0
90 PERCENT EXCEEDS	.01		.10	.20

08071280 Luce Bayou above Lake Houston near Huffman, TX--Continued



SAN JACINTO RIVER BASIN

08072000 Lake Houston near Sheldon, TX

LOCATION.--Lat 29°54'58", long 95°08'28", Harris County, Hydrologic Unit 12040101, at intake structure on San Jacinto River near right bank 100 ft upstream from Lake Houston Dam, 4.0 mi north of Sheldon, 4.6 mi upstream from bridge on U.S. Highway 90, and 18 mi northeast of Houston.

DRAINAGE AREA.--2,828 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Apr. 1954 to current year.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage at dam is 0.70 ft below sea level; unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by two earthfill embankment sections and a 3,160-foot long concrete spillway midway between the embankment sections. The dam was completed and storage began Apr. 9, 1954. The spillway includes two tainter gates, 18.0 x 20.5 ft, that can be used for control of releases below gage heights of 44.5 ft and above 28.0 ft. In addition, there is a 36-inch-diameter sluice gate that is used for low-flow releases. The dam is owned by the city of Houston. Water is used for irrigation, municipal, and industrial supply in the Houston metropolitan area. Conservation pool storage is 128,863 acre-ft. Data regarding the dam are given in the following table:

	Gage height (feet)
Top of dam.....	63.0
Design flood.....	57.0
Crest of spillway.....	44.5
Crest of tainter gates (sill).....	28.0
Lowest gated outlet (invert).....	22.0

COOPERATION.--The capacity table is based on a bathymetric survey made in 1994 by Texas Water Development Board. Records of diversions may be obtained from the San Jacinto River Authority and the city of Houston.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 249,900 acre-ft, Oct. 19, 1994, gage height, 52.79 ft; minimum since first filling of lake in Aug. 1954, 53,380 acre-ft, Dec. 1, 1971, gage height, 34.08 ft.

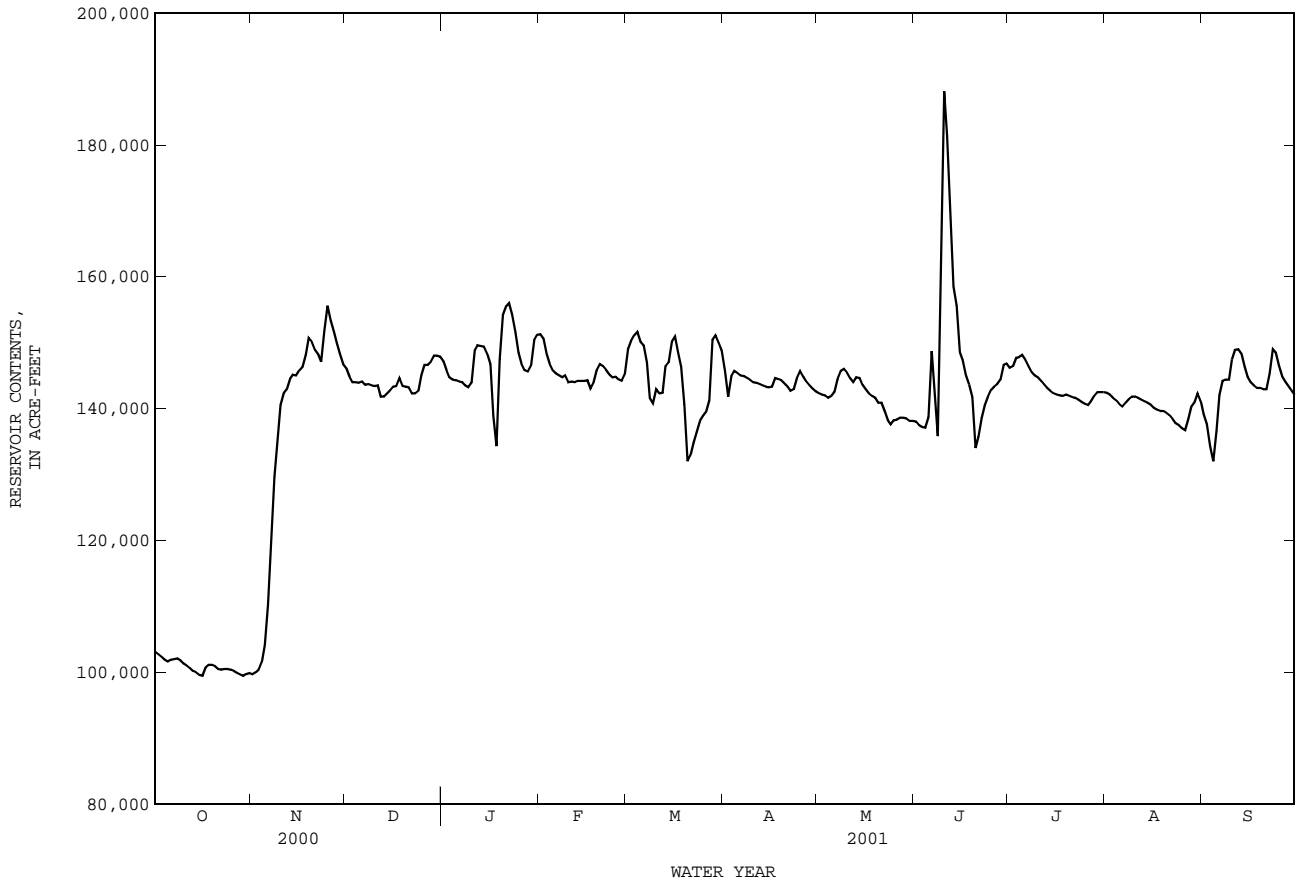
EXTREMES FOR CURRENT YEAR.--Maximum contents, 189,900 acre-ft, June 10, gage height, 48.79 ft; minimum contents, 99,030 acre-ft, Oct. 16, 29, gage height, 40.94 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103100	99670	146100	147200	151300	149000	145700	142300	138000	146200	142400	139100
2	102700	99930	144800	145800	150600	150300	141800	142100	137500	146400	142100	137600
3	102300	100400	144000	144700	148200	151100	144900	142000	137200	147700	141600	134300
4	101900	101600	144000	144400	146800	151600	145700	141600	137100	147800	141200	132000
5	101600	104100	143900	144300	145800	150100	145400	141900	138700	148100	140700	136600
6	101900	110300	144100	144100	145300	149600	145000	142500	148700	147400	140300	142000
7	102000	120600	143600	144000	145000	147000	144900	144500	142700	146400	140900	144200
8	102100	129600	143700	143500	144700	141600	144600	145700	135800	145500	141400	144400
9	101800	135100	143500	143200	145000	140800	144400	146000	168100	145000	141800	144400
10	101300	140500	143400	143900	144000	142900	144000	145400	188100	144700	141800	147400
11	101000	142300	143500	148800	144100	142300	143900	144600	181400	144200	141600	148900
12	100600	142900	141800	149600	144000	142400	143700	144000	169600	143600	141300	149000
13	100200	144500	141800	149500	144200	146400	143500	144700	158500	143100	141100	148300
14	99970	145100	142300	149400	144200	147000	143300	144600	155600	142700	140900	146300
15	99580	145000	142800	148300	144200	150100	143200	143600	148500	142300	140600	144800
16	99480	145800	143300	146700	144300	150900	143300	142900	147300	142100	140100	144000
17	100700	146300	143400	138900	143000	148600	144600	142300	145000	142000	139800	143500
18	101100	148100	144600	134300	143900	146300	144500	141900	143600	141900	139600	143100
19	101100	150700	143400	147500	145800	140600	144300	141600	141700	142100	139600	143100
20	100900	150100	143300	154200	146700	132000	143800	140900	134000	141900	139400	142900
21	100500	148900	143200	155500	146400	133000	143300	140900	135700	141700	139000	142900
22	100400	148200	142300	156000	145900	134800	142700	139600	138500	141600	138400	145300
23	100500	147100	142300	154200	145200	136500	142900	138200	140500	141300	137800	149000
24	100500	151800	142700	151600	144700	138100	144600	137600	141800	141000	137500	148500
25	100400	155600	145000	148400	144800	138900	145700	138200	142800	140700	137000	146500
26	100200	153300	146600	146800	144400	139500	144800	138300	143300	140500	136700	144900
27	99910	151600	146600	145800	144200	141200	144100	138600	143700	141100	138400	144100
28	99650	149900	147100	145600	145200	150400	143500	138600	144400	141900	140200	143400
29	99400	148200	148000	146500	---	151100	143000	138500	146600	142500	140900	142800
30	99690	146700	148000	150400	---	149900	142600	138100	146800	142500	142300	142100
31	99860	---	147900	151200	---	148700	---	138100	---	142500	141100	---
MAX	103100	155600	148000	156000	151300	151600	145700	146000	188100	148100	142400	149000
MIN	99400	99670	141800	134300	143000	132000	141800	137600	134000	140500	136700	132000
(+)	41.03	45.50	45.60	45.88	45.38	45.67	45.16	44.80	45.51	45.15	45.04	45.12
(@)	-3440	+46840	+1200	+3300	-6000	+3500	-6100	-4500	+8700	-4300	-1400	+1000
CAL YR 2000	MAX 155600	MIN 99400	(@) +40900									
WTR YR 2001	MAX 188100	MIN 99400	(@) +38800									

(+) Gage height, in feet, at end of month.
(@) Change in elevation, in acre-feet.

08072000 Lake Houston near Sheldon, TX--Continued



SAN JACINTO RIVER BASIN

08072000 Lake Houston near Sheldon, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

300158095074601 -- Lk Houston Site EC

DATE	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)
DEC 11...	<.023	<.004	.050	E.015	<.034	<.017	<.005	<.002	<.009
DEC 11...	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--
APR 25...	<.023	<.009	.058	<.016	<.034	<.017	<.005	<.002	<.009
APR 25...	--	--	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--	--	--
JUL 31...	<.023	<.004	E.005	<.016	<.034	<.017	<.005	<.002	<.009
JUL 31...	--	--	--	--	--	--	--	--	--
JUL 31...	--	--	--	--	--	--	--	--	--

300209095091201 -- Lk Houston Site FC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)	COLI-FORM, FECAL, MF, UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP, WATER (COL/100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 11...	1215	1.00	250	7.7	16.0	75	39	765	9.9	100	44	22	59
DEC 11...	1217	8.50	250	7.7	16.0	120	--	765	9.9	100	--	--	--
APR 25...	1240	1.00	210	7.0	22.0	250	150	770	5.7	65	720	250	41
APR 25...	1242	7.50	210	7.0	22.0	120	74	770	5.6	63	--	--	--
JUL 31...	1015	1.00	365	9.1	31.5	40	--	765	10.0	135	E2	E6	77
JUL 31...	1017	7.40	365	9.0	31.0	25	--	765	7.4	99	--	--	--

300209095091201 -- Lk Houston Site FC

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED AS CA (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED AS MG (MG/L) (00925)	SODIUM, DIS-SOLVED AS NA (MG/L) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED AS K (MG/L) (00932)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED AS SO4 (MG/L) (00945)	CHLO-RIDE, DIS-SOLVED AS CL (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED AS F (MG/L) (00950)	
DEC 11...	3	19.5	2.46	22.7	1	44	3.97	--	--	56	10.8	26.0	.2
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 25...	4	13.2	1.85	22.3	2	52	3.35	--	37	--	10	27.6	E.1
APR 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 31...	--	25.4	3.36	43.5	2	53	4.71	2	89	--	15.5	45.4	.2
JUL 31...	--	--	--	--	--	--	--	--	--	--	--	--	--

300209095091201 -- Lk Houston Site FC

DATE	SILICA, DIS-SOLVED AS SIO2 (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED AS N (MG/L) (00618)	NITRO-GEN, NITRITE DIS-SOLVED AS N (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED AS N (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED AS N (MG/L) (00608)	NITRO-GEN, TOTAL (MG/L) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED AS N (MG/L) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. AS N (MG/L) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL AS N (MG/L) (00625)
DEC 11...	10.5	149	135	14	1.06	.011	1.07	<.041	1.9	--	--	.53	.88
DEC 11...	--	--	--	30	1.01	.010	1.02	<.041	1.9	--	--	.49	.92
APR 25...	5.8	142	111	126	.833	.034	.867	.117	1.4	.44	.44	.55	.55
APR 25...	--	--	--	--	.807	.034	.841	.091	1.5	.56	.53	.62	.65
JUL 31...	9.8	218	202	31	--	E.003	E.032	<.040	--	--	--	.50	1.1
JUL 31...	--	--	--	30	--	<.006	E.038	<.040	--	--	--	.43	.62

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SAN JACINTO RIVER BASIN

08072050 San Jacinto River near Sheldon, TX

LOCATION.--Lat 29°52'34", long 95°05'37", Harris County, Hydrologic Unit 12040104, on left bank at U.S. Highway 90 bridge, 0.3 mi downstream from Southern Pacific Railway Co. bridge, 1.5 mi east of Sheldon, 4.6 mi downstream from Lake Houston, and 21 mi northeast of Houston.

DRAINAGE AREA.--2,879 mi².

PERIOD OF RECORD.--Feb. 1970 to current year (elevations prior to 1973; gage heights only, beginning 1973). Eleven discharge measurements, May 19, 1989, to Oct. 19, 1995.

Water-quality records.--Chemical data: Feb. 1970 to Sept. 1972. Biochemical data: Feb. 1970 to Sept. 1972. Pesticide data: May 1971 to Sept. 1972.

GAGE.--Water-stage recorder. Datum of gage is 0.69 ft below sea level, adjustment of 1973. Prior records unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records good. Gage heights reflect tidal fluctuations.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 27.09 ft, Oct. 19, 1994; minimum gage height, -2.52 ft, Oct. 28, 1985. A discharge measurement of 356,000 ft³/s was made near the peak of Oct. 19, 1994, gage height, 27.00 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since at least 1875, 31.5 ft Nov. 26, 1940, at site 0.3 mi upstream at Southern Pacific Railway Co. bridge.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.96 ft, June 10; minimum gage height, -1.24 ft, Feb. 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.74	1.34	3.62	1.97	3.13	1.53	1.93	.46	2.31	1.01	1.91	.51
2	2.88	1.41	3.38	1.53	1.71	-.39	1.49	.53	2.13	.74	3.63	.92
3	2.92	1.37	3.25	1.84	1.35	.46	1.31	.30	2.04	.30	4.13	3.12
4	2.96	1.57	3.25	1.27	2.11	.62	1.26	-.01	1.71	-.09	4.00	3.08
5	3.14	1.39	2.70	1.64	2.03	.85	1.40	-.21	1.50	-.45	3.37	2.51
6	2.91	.62	3.79	1.56	2.33	.37	1.59	-.39	1.89	-.18	3.24	2.34
7	1.97	.37	2.78	1.45	2.22	.34	1.81	-.08	2.31	.25	3.24	1.87
8	1.38	.11	3.47	.95	2.39	.70	1.54	-.86	2.44	.54	3.22	1.93
9	2.62	.29	1.70	-.22	2.29	.39	1.73	-.51	2.47	-.04	3.20	1.39
10	2.76	1.20	2.75	.87	2.48	.53	3.76	.94	1.45	-.68	3.57	1.93
11	2.68	1.39	3.31	1.37	2.36	.54	3.16	.73	2.14	.60	3.80	2.82
12	2.47	1.37	4.24	1.72	1.99	-.71	1.98	-.04	2.30	1.33	3.38	2.59
13	2.75	1.38	4.10	.30	2.91	.98	2.49	1.58	2.03	.69	3.25	2.33
14	3.08	1.30	2.13	-.17	2.53	.05	2.66	.79	2.09	.53	4.65	2.40
15	3.05	1.23	2.90	1.18	2.51	.94	2.15	.93	2.18	.50	4.25	3.47
16	2.82	1.12	3.47	1.00	2.64	-.49	3.73	1.54	1.94	-.04	3.79	2.97
17	3.07	.81	2.50	.50	.57	-.88	3.56	2.37	1.10	-1.24	3.93	2.71
18	2.64	.63	3.31	1.83	1.79	-.26	2.48	.16	1.99	.00	3.90	2.62
19	2.55	.73	3.27	1.60	-.16	-1.11	.98	-.21	2.58	.83	3.42	1.78
20	2.48	.74	2.96	1.38	2.14	-.39	2.12	.76	2.45	.61	2.06	-.81
21	2.58	.85	2.58	1.34	1.69	-.03	2.87	1.93	2.01	.41	1.90	-.10
22	3.45	1.44	2.42	1.15	2.28	.17	2.87	1.80	2.02	.26	1.88	.22
23	3.31	1.75	2.99	1.29	2.48	.79	2.80	1.23	3.19	1.43	2.04	.49
24	3.40	2.21	3.56	1.65	2.42	.62	2.25	.70	3.99	2.01	2.21	1.00
25	3.51	2.23	2.31	1.37	3.26	1.36	1.93	-.12	2.73	.69	2.00	.29
26	3.47	2.07	2.45	.98	3.33	1.70	1.90	.47	2.35	1.09	2.48	.95
27	3.25	1.71	2.52	.99	2.32	-.21	2.23	.52	2.36	1.40	3.46	1.36
28	3.23	1.62	2.55	.91	.95	-1.00	2.27	.87	2.24	1.13	5.65	3.33
29	3.25	1.81	2.56	.54	.77	-.56	2.36	.70	---	---	5.14	4.35
30	3.18	1.40	2.44	1.04	.98	-.34	2.37	1.21	---	---	4.35	3.53
31	3.05	1.60	---	---	1.87	.96	2.15	1.10	---	---	3.83	3.00
MONTH	3.51	.11	4.24	-.22	3.33	-1.11	3.76	-.86	3.99	-1.24	5.65	-.81

SAN JACINTO RIVER BASIN

08072300 Buffalo Bayou near Katy, TX

LOCATION.--Lat 29°44'35", long 95°48'24", Fort Bend County, Hydrologic Unit 12040104, on left bank at bridge on Greenbush Road, 2.5 mi downstream from confluence of Willow Fork and Cane Island Branch of Buffalo Bayou, and 3.1 mi southeast of Katy.

DRAINAGE AREA.--63.3 mi².

PERIOD OF RECORD.--July 1977 to current year.

Water-quality records.--Chemical data: June 1978 to Sept. 1981. Biochemical data: June 1978 to Sept. 1981.

GAGE.--Water-stage recorder. Datum of gage is 75.02 ft above sea level, 1973 adjustment. Gage located at temporary site 250 ft upstream Jan. 18 to Sept. 30, 1985; all records adjusted to original site and datum. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Stage-discharge relation affected by seasonal vegetation during most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.0	21	8.1	36	8.0	140	2.7	11	5.2	22	729
2	6.5	15	16	6.5	20	298	87	3.0	6.8	34	30	575
3	7.6	52	11	5.4	14	461	61	4.8	3.6	46	27	405
4	16	54	8.4	5.4	10	265	44	3.7	2.8	26	19	296
5	6.0	69	7.0	4.5	8.2	125	28	109	3.0	18	13	281
6	6.5	227	9.3	4.7	6.7	65	21	168	7.3	13	9.3	178
7	11	120	9.2	5.3	12	35	14	309	9.0	e8.0	56	90
8	20	54	5.9	5.1	11	25	9.8	219	14	e5.0	44	49
9	12	28	6.1	4.7	15	27	9.1	83	89	3.5	10	196
10	11	17	5.1	47	14	28	6.7	135	21	3.1	15	220
11	9.0	7.1	4.3	231	11	20	4.8	268	16	3.2	7.9	90
12	9.2	117	3.5	95	7.7	23	3.0	108	12	3.3	8.8	48
13	21	264	9.4	50	5.8	18	2.9	53	6.3	2.8	6.5	e28
14	13	101	7.0	35	5.2	180	2.2	42	3.9	3.2	4.6	e18
15	6.7	45	6.5	26	5.3	643	1.6	23	75	3.4	3.8	13
16	4.1	42	5.3	90	8.3	341	28	13	24	2.5	3.1	10
17	91	76	4.7	283	11	177	37	7.8	14	12	2.7	10
18	325	442	5.3	440	27	91	19	5.0	8.8	14	2.5	11
19	150	556	4.3	507	23	52	9.7	3.5	5.3	10	2.8	8.1
20	70	261	3.9	260	15	31	5.4	2.9	3.4	8.6	3.2	5.6
21	42	138	4.2	139	14	20	2.4	2.7	2.9	7.2	3.1	5.2
22	35	81	4.1	85	32	14	1.8	3.3	4.4	4.5	2.9	167
23	19	59	3.7	99	21	11	17	4.0	3.2	6.7	2.7	107
24	9.6	629	177	73	13	8.2	199	3.9	3.0	15	2.4	80
25	7.8	339	230	42	10	6.6	67	5.2	3.4	15	2.4	46
26	29	169	101	27	8.7	5.4	24	20	3.6	21	2.8	23
27	31	95	76	20	19	209	12	19	3.8	36	4.4	18
28	13	58	45	16	17	1170	6.5	11	3.3	38	38	14
29	14	41	22	185	---	700	4.3	8.4	3.0	28	47	8.8
30	8.6	28	13	155	---	439	3.4	5.7	2.9	25	272	7.0
31	5.3	---	8.6	70	---	255	---	7.7	---	23	684	---
TOTAL	1013.8	4188.1	837.8	3024.7	400.9	5751.2	871.6	1654.3	369.7	444.2	1352.9	3736.7
MEAN	32.7	140	27.0	97.6	14.3	186	29.1	53.4	12.3	14.3	43.6	125
MAX	325	629	230	507	36	1170	199	309	89	46	684	729
MIN	3.9	4.0	3.5	4.5	5.2	5.4	1.6	2.7	2.8	2.5	2.4	5.2
AC-FT	2010	8310	1660	6000	795	11410	1730	3280	733	881	2680	7410

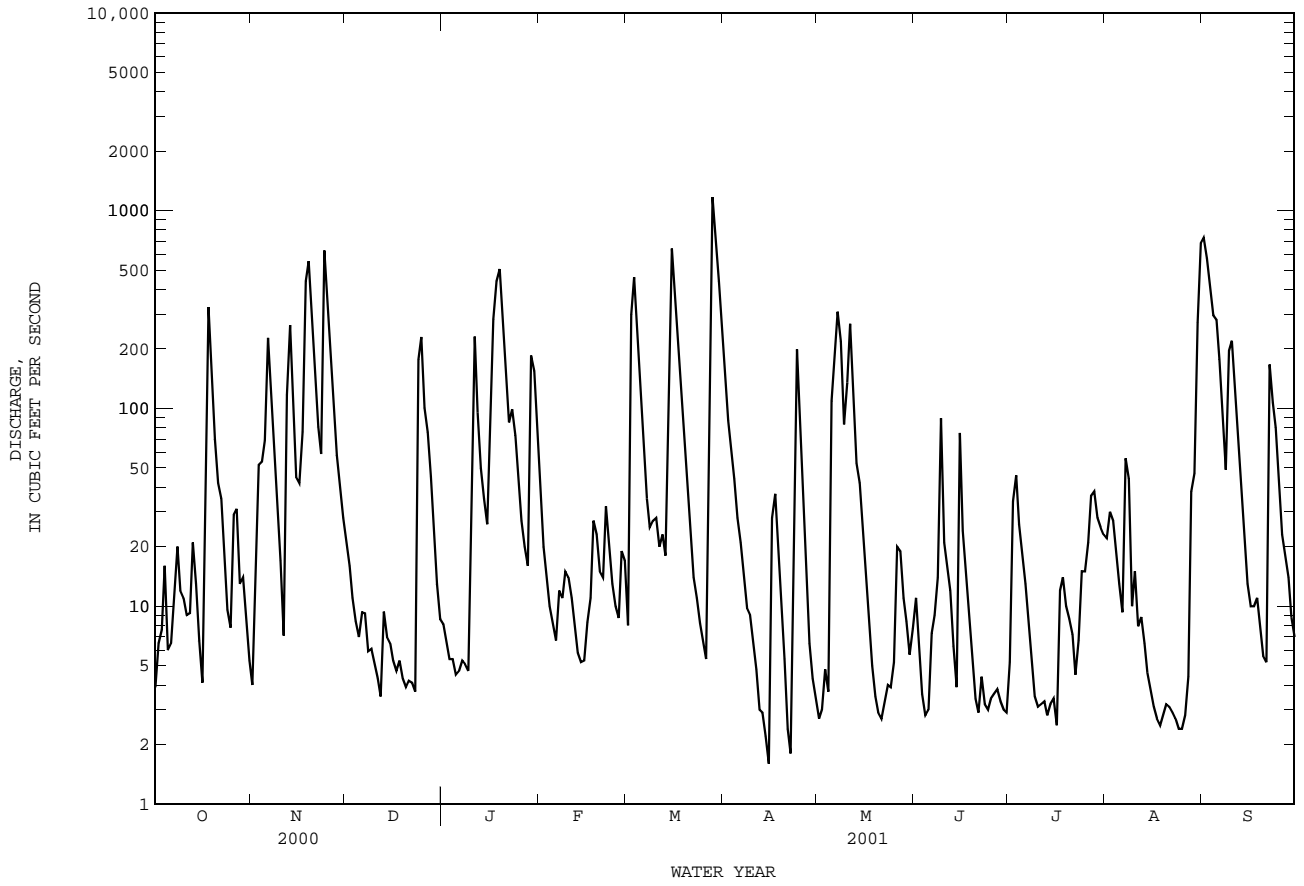
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	50.1	58.2	58.4	64.8	69.5	43.1	46.4	60.0	61.5	24.4	25.2	51.3													
MAX	236	223	376	224	356	186	330	173	292	136	76.7	320													
(WY)	1995	1983	1992	1979	1992	2001	1991	1993	1993	1981	1989	1979													
MIN	2.07	3.86	2.17	4.64	2.64	1.57	2.91	2.36	2.73	3.43	4.46	1.90													
(WY)	1988	2000	1990	1986	1988	1981	1987	1996	1990	1994	1999	1982													

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1977 - 2001
ANNUAL TOTAL	9895.8	23645.9	
ANNUAL MEAN	27.0	64.8	51.1
HIGHEST ANNUAL MEAN			137
LOWEST ANNUAL MEAN			11.9
HIGHEST DAILY MEAN	629	Nov 24	2810
LOWEST DAILY MEAN	1.3	Aug 26	.29
ANNUAL SEVEN-DAY MINIMUM	1.5	Apr 24	.34
MAXIMUM PEAK FLOW			1530
MAXIMUM PEAK STAGE			31.29
ANNUAL RUNOFF (AC-FT)	19630	46900	36990
10 PERCENT EXCEEDS	60	197	106
50 PERCENT EXCEEDS	4.1	14	7.9
90 PERCENT EXCEEDS	1.8	3.4	1.6

e Estimated

08072300 Buffalo Bayou near Katy, TX--Continued



SAN JACINTO RIVER BASIN

08072500 Barker Reservoir near Addicks, TX

LOCATION.--Lat 29°46'11", long 95°38'49", Harris County, Hydrologic Unit 12040104, at dam on Buffalo Bayou, 45 ft upstream from reservoir outlet works, 1,160 ft upstream from Addicks-Howell county road, 1.1 mi south of Addicks, and 1.2 mi upstream from South Mayde Creek.

DRAINAGE AREA.--128 mi². Prior to Aug. 1977, 134 mi². Basin boundary change due to relocation of drainage ditches. During extreme floods, basin may receive and (or) lose runoff due to basin interchange.

PERIOD OF RECORD.--Aug. 1945 to current year.

Water-quality records.--Chemical data: June 1978 to Sept. 1981. Biochemical data: June 1978 to Sept. 1981.

GAGE.--Water-stage recorder. Datum of gage is sea level, 1973 adjustment; unadjusted for land-surface subsidence (since 1973).

Prior to Oct. 1, 1980, datum of gage was 0.33 ft below sea level, unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 71,900 ft long. The dam was completed Feb. 3, 1946, but was used as early as the spring of 1945 for flood control. The reservoir is operated for flood protection for the city of Houston. The controlled outlet works consist of five concrete conduits, 9 x 7 ft wide, each controlled by a vertical slide gate. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	114.7
Ground elevation at ends of dam.....	106.0
Design flood.....	105.4
Crest of spillway (invert).....	73.2

COOPERATION.--The capacity table, furnished by the U.S. Army Corps of Engineers, is based on extensive releveling survey made in 1974 using sea level, 1973 adjustment as base.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,780 acre-ft, Mar. 6, 7, 1992, elevation, 95.89 ft; minimum, reservoir dry at times.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,090 acre-ft, Sept. 6, elevation, 90.53 ft; minimum contents, 0.13 acre-ft, Dec. 20-23, Aug. 17-26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.21	405	10.8	6.19	.23	17230	.16	.21	.17	.22	8260
2	.14	.17	226	.22	.44	37.4	15890	.16	.20	22.0	.21	12210
3	.14	4.47	.29	.20	.31	1200	13960	.16	.18	445	.22	14640
4	.14	291	.29	.18	.25	3320	11560	.16	.16	968	.22	16290
5	.14	842	.25	.17	.22	4350	9060	2.28	.54	1220	.21	17410
6	.14	1200	.24	.17	.20	2920	6510	276	24.4	579	.19	17800
7	.15	1050	.30	.17	.19	894	3940	1450	175	41.3	.39	16450
8	.22	1770	.29	.18	.20	.51	1330	3320	671	.27	.43	13680
9	.23	1590	.17	.17	.20	.72	5.97	4720	1590	.22	.34	11900
10	.21	136	.16	.22	.22	.38	.26	3390	2740	.19	.26	11930
11	.18	.25	.15	34.2	.21	.30	.22	1480	3320	.16	.21	9160
12	.17	.33	.14	120	.20	.33	.19	194	3020	.16	.18	6380
13	.15	93.1	.18	2.22	.19	.31	.18	92.4	1750	.15	.17	5210
14	.15	426	.24	.71	.18	12.0	.17	13.3	440	.15	.16	3410
15	.16	13.6	.20	.34	.17	459	.16	.57	13.4	.15	.15	1750
16	.16	132	.17	.37	.17	744	4.51	.31	292	.16	.14	289
17	.20	746	.16	99.3	.19	539	1250	.24	566	.63	.13	.22
18	105	1850	.14	840	.19	870	2890	.20	109	2.25	.13	.20
19	469	5420	.14	2310	.22	1050	1120	.18	.20	.50	.13	.20
20	29.5	6990	.13	2790	.23	10.6	.40	.19	.17	.29	.13	.20
21	6.70	5660	.13	2430	.21	.34	.27	.18	.15	.22	.13	.22
22	.32	3930	.13	1200	.20	.27	.22	.17	.23	.19	.13	49.8
23	.27	4260	.13	5.94	.22	.23	.18	.16	.25	.17	.13	973
24	.23	5280	1.31	1.83	.24	.20	.55	.17	.19	.16	.13	1850
25	.19	7170	361	.67	.22	.19	4.41	.18	.16	.19	.13	501
26	.29	7400	1550	.36	.20	.17	1.48	.19	.15	.22	.13	.41
27	.41	6590	2410	.32	.20	15.0	.32	.35	.14	19.0	.15	.29
28	.27	4710	2680	.29	.21	4940	.24	.31	.15	189	6.45	.24
29	.28	4340	2030	9.71	---	13700	.19	.23	.18	337	246	.20
30	.76	2200	1260	69.4	---	16750	.17	.19	.19	234	887	.17
31	.31	---	438	5.11	---	17880	---	.17	---	.20	3060	---
MAX	469	7400	2680	2790	6.19	17880	17230	4720	3320	1220	3060	17800
MIN	.14	.17	.13	.17	.17	.17	.16	.16	.14	.15	.13	.17

CAL YR 2000 MAX 7400 MIN .13
WTR YR 2001 MAX 17880 MIN .13

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SAN JACINTO RIVER BASIN

08072730 Bear Creek near Barker, TX

LOCATION.--Lat 29°49'50", long 95°41'12", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Clay Road, 2.5 mi west of State Highway 6, and 4.1 mi upstream from mouth of Langham Creek.

DRAINAGE AREA.--21.5 mi².

PERIOD OF RECORD.--July 1977 to current year.

Water-quality records.--Chemical data: June 1978 to Sept. 1981. Biochemical data: June 1978 to Sept. 1981.

REVISED RECORDS.--WDR TX-88-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 100.00 ft above sea level. Mar. 1, 1984, to Mar. 12, 1985, at temporary site 1,100 ft downstream, same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation. Channel was rectified in 1981 and 1987 water years. Considerable diversions and return of irrigation water from area above station. Maximum gage height for period of record occurred prior to channel rectification. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	2.0	6.9	4.4	6.6	1.3	99	.67	4.3	.63	8.0	125
2	.44	.51	3.2	3.0	3.9	140	39	.64	3.3	.86	6.2	79
3	.56	15	6.9	2.5	2.8	170	14	.60	2.7	1.1	10	25
4	.43	34	5.1	1.7	2.2	109	9.7	.66	2.2	.92	5.8	14
5	.43	60	3.1	1.3	1.8	58	7.8	8.4	5.5	.70	3.4	18
6	.31	93	4.5	1.0	1.7	25	7.1	8.0	58	.66	4.4	8.4
7	1.3	36	4.5	1.1	1.7	22	6.1	96	15	1.3	8.8	5.2
8	12	12	2.1	1.0	1.6	18	4.3	75	45	5.6	2.6	4.1
9	8.2	4.3	1.4	.84	1.6	31	3.4	11	1130	1.5	1.5	67
10	2.3	1.4	.92	19	1.6	17	2.9	4.4	575	.92	1.0	66
11	.70	.71	.80	64	1.4	8.4	2.7	2.6	380	.72	.83	22
12	.24	35	.54	35	1.5	8.4	2.5	3.1	214	.61	.69	7.7
13	.17	71	2.9	16	2.2	6.5	2.0	5.3	112	.59	.61	4.3
14	.16	35	3.5	11	2.1	122	1.8	4.9	55	.59	.84	2.9
15	.15	14	1.7	7.8	1.7	312	1.9	4.0	68	.59	.92	2.1
16	.21	13	1.3	28	2.1	187	5.9	3.1	67	.62	.86	1.8
17	9.0	28	.96	58	2.8	112	32	2.3	25	1.4	.89	1.6
18	60	136	1.0	83	1.8	60	3.8	1.9	9.4	1.2	.90	2.6
19	19	146	.92	147	1.4	26	1.9	1.7	4.9	.88	.85	1.8
20	4.0	79	.76	84	1.3	12	1.8	1.7	2.7	.81	.87	1.4
21	1.1	48	.68	51	1.3	7.3	1.7	1.9	1.8	.74	.87	1.3
22	.26	26	.56	27	1.2	4.9	1.7	1.7	70	.67	.72	192
23	.16	16	.57	14	1.2	29	1.6	1.6	5.5	.62	.65	102
24	.14	174	53	8.5	1.2	42	3.6	1.5	1.9	3.3	.68	118
25	.07	93	74	5.8	1.2	31	2.8	2.2	1.2	1.8	.73	37
26	6.1	60	39	4.8	1.2	20	1.9	10	.96	1.8	.93	15
27	11	40	29	3.9	1.3	210	1.4	11	.76	2.9	4.7	9.0
28	2.2	24	20	3.0	1.3	660	1.0	5.5	.62	1.5	59	5.7
29	3.8	15	11	102	---	388	.75	4.0	.62	1.2	39	4.0
30	10	11	6.4	42	---	267	.73	3.3	.62	3.9	52	2.9
31	3.8	---	3.8	15	---	167	---	2.9	---	2.9	152	---
TOTAL	158.59	1322.92	291.01	846.64	53.7	3271.8	266.78	281.57	2862.98	43.53	371.24	946.8
MEAN	5.12	44.1	9.39	27.3	1.92	106	8.89	9.08	95.4	1.40	12.0	31.6
MAX	60	174	74	147	6.6	660	99	96	1130	5.6	152	192
MIN	.07	.51	.54	.84	1.2	1.3	.73	.60	.62	.59	.61	1.3
AC-FT	315	2620	577	1680	107	6490	529	558	5680	86	736	1880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

	MEAN	30.7	31.1	24.1	23.8	23.7	18.0	17.0	26.1	29.7	9.32	11.4	22.4
MAX	257	250	131	91.0	120	106	119	89.5	106	45.3	53.1	128	
(WY)	1999	1999	1992	1979	1992	2001	1991	1983	1986	1983	1983	1979	
MIN	.010	.034	.098	.75	.61	.26	.029	.51	.89	.64	.70	.10	
(WY)	1989	1989	1990	1986	1988	1982	1987	1996	1998	1998	2000	1990	

SUMMARY STATISTICS

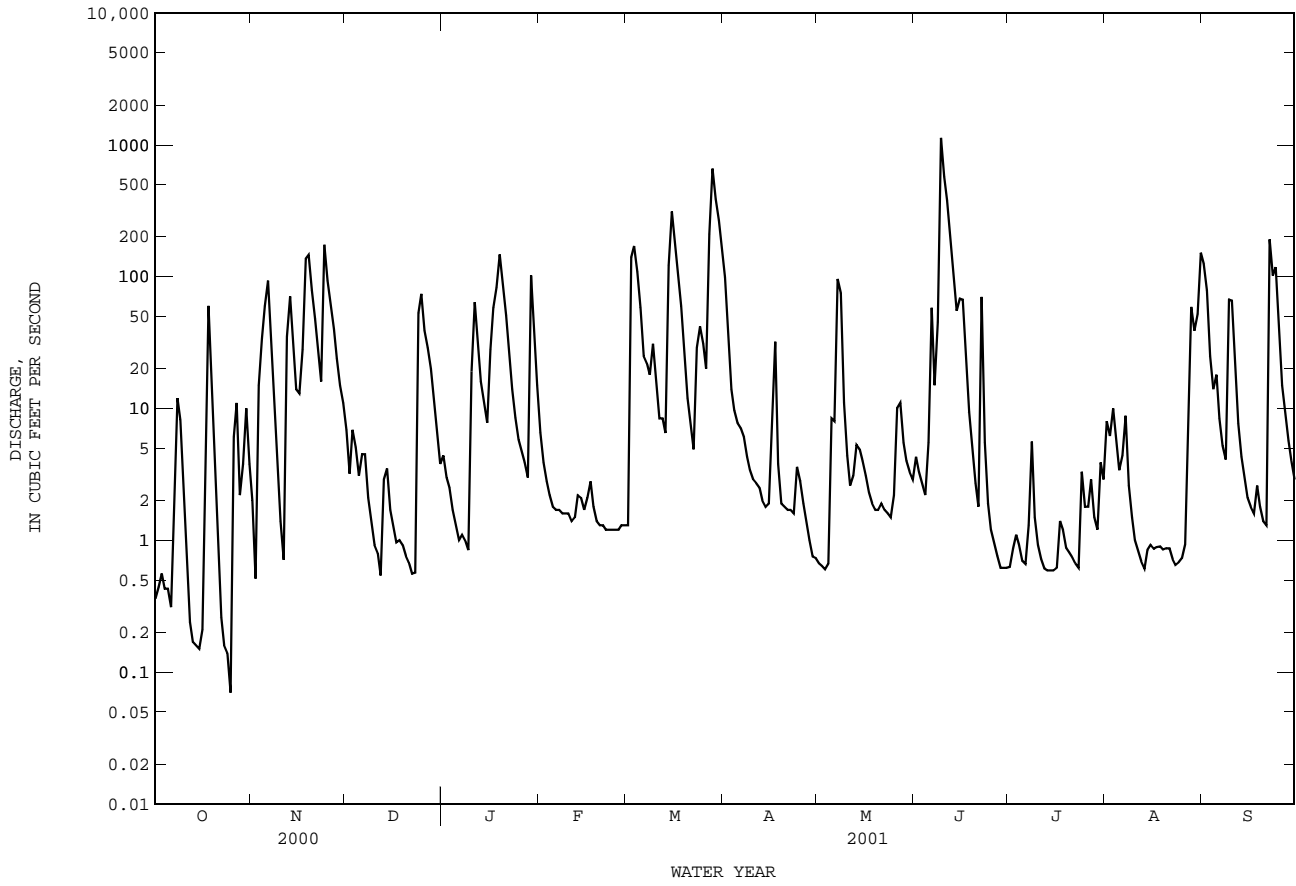
FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1977 - 2001

ANNUAL TOTAL	4014.97	10717.56	
ANNUAL MEAN	11.0	29.4	22.3
HIGHEST ANNUAL MEAN			49.8
LOWEST ANNUAL MEAN			4.45
HIGHEST DAILY MEAN	364	Apr 2	1550
LOWEST DAILY MEAN	.02	Feb 20	.00
ANNUAL SEVEN-DAY MINIMUM	.05	Feb 16	.00
MAXIMUM PEAK FLOW		2070	2070
MAXIMUM PEAK STAGE		9.12	16.72
ANNUAL RUNOFF (AC-FT)	7960	21260	16170
10 PERCENT EXCEEDS	30	74	52
50 PERCENT EXCEEDS	1.1	3.4	1.9
90 PERCENT EXCEEDS	.18	.67	.06

08072730 Bear Creek near Barker, TX--Continued



SAN JACINTO RIVER BASIN

08072760 Langham Creek at West Little York Road near Addicks, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°52'01", long 95°38'47", Harris County, Hydrologic Unit 12040104, at bridge on West Little York Road, 2.1 mi downstream from Dinners Creek, and 5.7 mi north of Addicks.

DRAINAGE AREA.--24.6 mi².

PERIOD OF RECORD.--July 1977 to Sept. 1980 (daily mean discharge), Oct. 1980 to Sept. 1982 (peak discharges greater than base discharge and annual maximum), Oct. 1982 to Sept. 1989 (annual maximum), Oct. 1989 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 90.00 ft above sea level, 1973 adjustment. Satellite telemeter at station.

REMARKS.--Records poor. No known regulation or diversion. Major channel rectification completed in the summer of 1998 and again in the summer of 2000.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s June 9, 2001 (gage height 21.70 ft); maximum gage height 24.42 ft Sept. 19, 1979; no flow for several days during period July to Sept. 1977, and during the 1978 and 1980 water years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 14	1730	662	16.04	June 9	0300	2,100	21.70
Mar. 27	2200	1,090	17.07	Sept. 22	0800	720	17.68

i From indirect measurement of peak flow.

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SAN JACINTO RIVER BASIN

08073000 Addicks Reservoir near Addicks, TX

LOCATION.--Lat 29°47'28", long 95°37'24", Harris County, Hydrologic Unit 12040104, at dam on South Mayde Creek, 65 ft upstream from reservoir outlet works, 2,700 ft upstream from U.S. Highway 90 and Interstate Highway 10, 1.2 mi east of Addicks, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--136 mi².

PERIOD OF RECORD.--June 1948 to current year.

Water-quality records.--Chemical data: June 1978 to Sept. 1981. Biochemical data: June 1978 to Sept. 1981.

REVISED RECORDS.--WDR TX-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level, 1973 adjustment; unadjusted for land-surface subsidence (since 1973). Prior to Oct. 1, 1980, datum of gage was sea level, unadjusted for land-surface subsidence that occurred prior to that date. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 61,166 ft long. The dam was completed in Dec. 1948. The reservoir is operated for flood protection for the city of Houston. The outlet works consist of five concrete conduits 8 x 6 ft wide, each controlled by a vertical slide gate. Runoff in excess of maximum design capacity will be discharged around both ends of dam. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	122.7
Design flood.....	112.7
Ground elevation at ends of dam.....	112.0
Crest of spillway (invert).....	71.1

COOPERATION.--The capacity table, furnished by the U.S. Army Corps of Engineers, was based on extensive releveling survey in 1974, using sea level, 1973 adjustment.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 57,950 acre-ft, Mar. 9, 1992, elevation, 100.58 ft; minimum, reservoir dry at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec. 1935 reached a stage of 89.9 ft, former datum, at bridge on U.S. Highway 90, 2,700 ft downstream from gage, from information by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,900 acre-ft, June 11, elevation, 94.29 ft; minimum contents, 0.46 acre-ft, Oct. 6, 7, elevation, 71.84 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.68	952	275	1.2	.62	12190	.55	.73	.87	.57	5020
2	.49	.67	524	15	.97	175	11550	.55	.71	27	.56	6880
3	.48	22	.87	.94	.90	1730	10440	.55	.69	362	.55	7690
4	.48	401	.67	.84	.88	3610	8890	.55	.68	484	.56	7970
5	.47	868	.56	.82	.85	4190	7290	9.3	6.2	520	.57	8160
6	.47	1370	.75	.82	.82	2670	5690	142	299	289	.59	8310
7	.50	936	1.3	.82	.80	821	4100	575	795	22	37	7980
8	1.7	1210	.71	.82	.79	14	2400	1920	1030	1.4	1.4	7270
9	1.2	1070	.54	.82	.78	53	796	3400	8130	.77	.66	6800
10	.76	90	.53	3.0	.78	46	30	2520	15660	.74	.58	7240
11	.59	.77	.53	367	.76	1.7	.89	1300	17580	.74	.57	6990
12	.56	.81	.52	530	.74	2.0	.86	426	17170	.73	.56	6210
13	.55	166	.91	28	.72	1.8	.85	109	15270	.73	.55	5140
14	.55	141	1.1	1.2	.71	45	.85	38	13040	.71	.55	3470
15	.55	1.3	.67	1.0	.70	1130	.85	1.1	11630	.70	.55	1820
16	.55	60	.53	9.6	.70	1670	13	.76	12110	.70	.54	453
17	3.4	350	.53	323	.70	795	595	.71	12350	1.1	.54	1.9
18	219	1050	.52	1150	.68	462	788	.69	11240	.76	.52	.66
19	478	3510	.50	2440	.67	421	52	.66	8700	.75	.51	.66
20	2.9	4670	.49	2150	.66	1.5	.95	.65	5850	.74	.51	.75
21	.65	3740	.48	927	.66	.94	.77	.64	3340	.73	.51	.67
22	.60	2650	.47	51	.66	.88	.72	.63	2590	.73	.50	218
23	.59	2700	.55	1.2	.65	.85	.67	.62	929	.72	.50	1430
24	.59	3640	23	1.1	.64	.87	.63	.61	23	.70	.49	2380
25	.58	5560	854	.94	.63	.91	.61	.61	1.1	.69	.48	1500
26	1.0	5650	2060	.88	.63	.87	.61	4.6	.83	.78	.48	300
27	.71	5000	2710	.89	.62	41	.57	37	.92	50	.98	1.2
28	.63	3900	2770	.85	.62	4850	.57	.85	.84	188	64	.90
29	1.1	3790	2110	170	---	10360	.57	.78	.84	281	614	.73
30	3.1	2400	1400	499	---	11990	.56	.76	1.7	261	1110	.70
31	.91	---	765	17	---	12460	---	.74	---	.66	2500	---
MAX	478	5650	2770	2440	1.2	12460	12190	3400	17580	520	2500	8310
MIN	.47	.67	.47	.82	.62	.62	.56	.55	.68	.66	.48	.66

CAL YR 2000 MAX 5760 MIN .47
WTR YR 2001 MAX 17580 MIN .47

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SAN JACINTO RIVER BASIN

08073500 Buffalo Bayou near Addicks, TX

LOCATION.--Lat 29°45'42", long 95°36'20", Harris County, Hydrologic Unit 12040104, near right bank at bridge on Dairy-Ashford Road over rectified channel, 1.8 mi downstream from South Mayde Creek, and 2.6 mi southeast of Addicks.

DRAINAGE AREA.--293 mi².

PERIOD OF RECORD.--Aug. 1945 to current year.

Water-quality records.--Chemical data: Oct. 1962 to Mar. 1963, Aug. 1970 to Sept. 1982. Biochemical data: Aug. 1970 to Sept. 1982. Pesticide data: Aug. 1970 to Sept. 1982.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1.40 ft below sea level; records unadjusted for land-surface subsidence. Prior to Feb. 2, 1948, water-stage recorder at bridge on natural channel 1,200 ft to right at same datum. Feb. 2 to May 21, 1948, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in Aug. 1945, at least 10% of contributing drainage area has been regulated. No known diversions. Extreme low flow is sustained by drainage from irrigated lands, and from minor wastewater effluent. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1896, 85.6 ft in Dec. 1935, adjusted to former site from floodmark 0.5 mi downstream, on basis of slope of flood of Aug. 29, 1945, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	99	683	478	316	70	1250	50	71	105	78	479
2	40	82	644	177	179	516	1320	46	64	392	73	276
3	42	237	154	100	133	192	1630	46	58	52	69	288
4	42	101	100	86	106	118	1800	45	49	22	75	181
5	44	e60	81	79	92	836	1750	261	85	271	78	127
6	52	e1000	98	72	80	1630	1700	55	145	557	151	546
7	76	240	134	74	71	1540	1630	503	168	403	390	1230
8	167	34	95	77	68	434	1520	188	350	156	204	1630
9	140	715	81	72	78	332	904	674	1120	83	119	593
10	92	760	70	217	85	287	290	1350	310	56	84	853
11	68	108	71	669	71	182	102	1250	306	47	59	1700
12	55	280	59	975	64	227	85	897	1360	47	48	1560
13	47	807	159	575	61	189	71	533	1630	43	46	1080
14	43	964	149	255	54	418	65	394	1560	42	43	1510
15	46	572	108	184	55	993	60	169	592	42	41	1250
16	48	324	82	288	64	1610	211	119	45	69	39	1010
17	310	226	69	319	76	1470	132	95	305	177	36	182
18	377	690	58	162	61	464	695	74	1170	190	37	94
19	705	658	54	661	69	710	1140	58	1380	140	36	90
20	588	1460	52	1540	71	468	234	56	1460	97	35	284
21	247	1810	53	1430	66	159	108	52	919	77	37	183
22	131	984	51	1170	62	122	84	55	621	54	39	300
23	108	58	55	482	64	106	73	45	885	49	40	146
24	94	340	191	280	69	113	131	46	308	47	39	757
25	81	545	127	215	69	104	221	50	91	59	37	1480
26	127	974	90	165	62	93	179	e200	75	88	44	807
27	167	1330	94	148	55	501	114	e300	90	166	119	177
28	112	1030	476	123	56	1380	80	e150	94	32	316	121
29	157	536	735	568	---	691	59	90	144	22	140	92
30	312	1610	707	1120	---	947	53	61	159	411	198	74
31	154	---	662	712	---	993	---	53	---	123	701	---
TOTAL	4708	18634	6242	13473	2357	17895	17691	7965	15614	4119	3451	19100
MEAN	152	621	201	435	84.2	577	590	257	520	133	111	637
MAX	705	1810	735	1540	316	1630	1800	1350	1630	557	701	1700
MIN	36	34	51	72	54	70	53	45	45	22	35	74
AC-FT	9340	36960	12380	26720	4680	35490	35090	15800	30970	8170	6850	37880

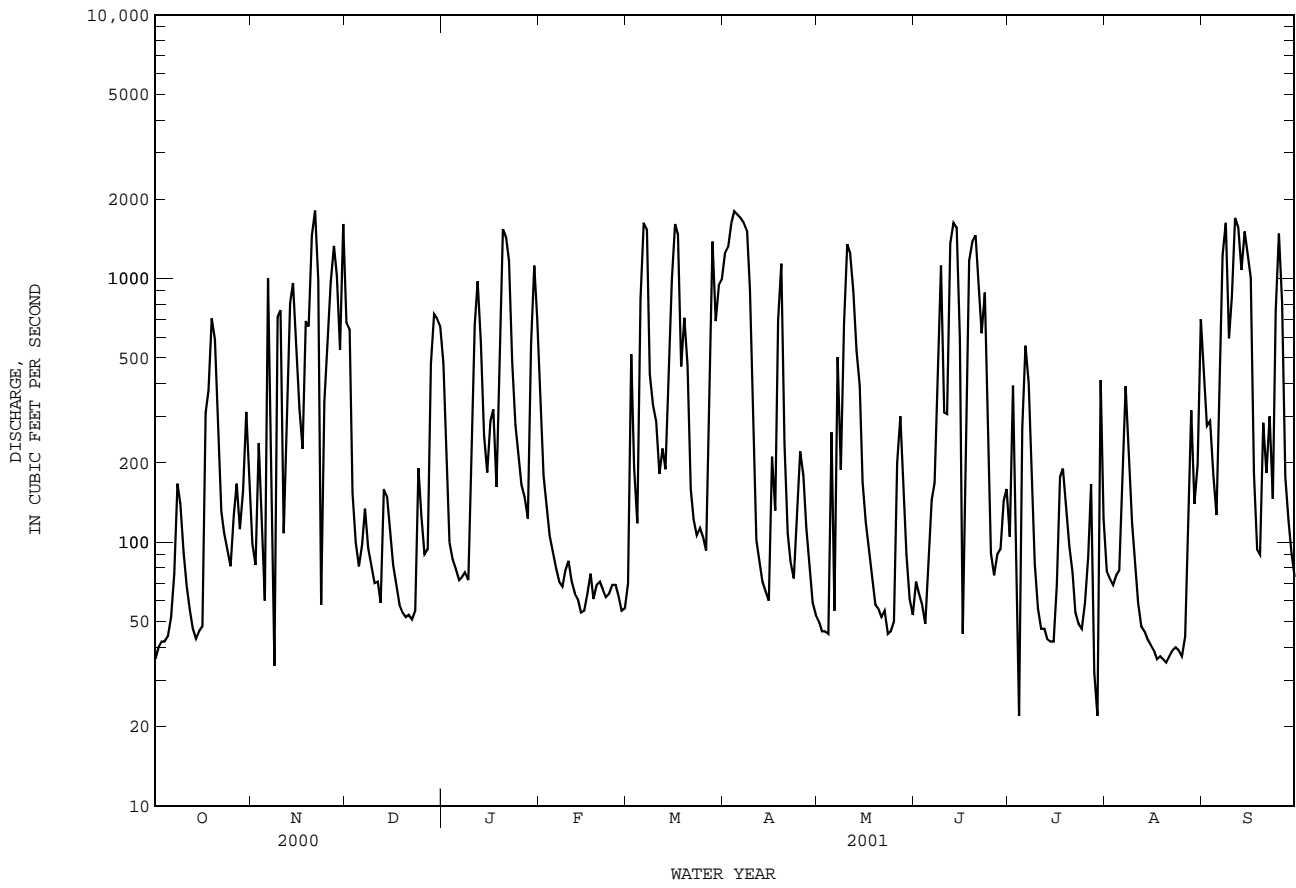
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

MEAN	236	274	269	272	307	208	225	291	311	185	126	229
MAX	1177	1790	1113	1107	1508	1563	1438	1599	1135	971	664	1186
(WY)	1999	1947	1999	1992	1992	1992	1992	1968	1992	1993	1983	1981
MIN	2.05	.48	1.35	2.00	3.84	.91	2.63	4.54	4.42	1.78	1.61	12.1
(WY)	1957	1956	1949	1957	1951	1956	1955	1951	1954	1956	1948	1948

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1945 - 2001
ANNUAL TOTAL	66244	131249	
ANNUAL MEAN	181	360	244
HIGHEST ANNUAL MEAN			784
LOWEST ANNUAL MEAN			23.3
HIGHEST DAILY MEAN	1810	Nov 21	6790
LOWEST DAILY MEAN	16	Apr 23	.00
ANNUAL SEVEN-DAY MINIMUM	17	Apr 22	.00
MAXIMUM PEAK FLOW		2160	Jun 9
MAXIMUM PEAK STAGE		64.89	Mar 28
ANNUAL RUNOFF (AC-FT)	131400	260300	176800
10 PERCENT EXCEEDS	539	1130	792
50 PERCENT EXCEEDS	61	140	50
90 PERCENT EXCEEDS	33	47	6.0

e Estimated

08073500 Buffalo Bayou near Addicks, TX--Continued



SAN JACINTO RIVER BASIN

08073600 Buffalo Bayou at West Belt Drive, Houston, TX

LOCATION.--Lat 29°45'43", long 95°33'27", Harris County, Hydrologic Unit 12040104, at downstream side of bridge on West Belt Drive in west Houston, 100 ft downstream from Rummel Creek, 3.5 mi downstream from Buffalo Bayou near Addicks (station 08073500), and 3.7 mi upstream from Buffalo Bayou at Piney Point (station 08073700).

DRAINAGE AREA.--307 mi², unadjusted for basin boundary changes.

PERIOD OF RECORD.--Sept. 1971 to current year.

Water-quality records.--Chemical data: June 1978 to Sept. 1998. Biochemical data: June 1978 to Aug. 1986. Pesticide data: June 1978 to Mar. 1983. Sediment data: May 1979 to Aug. 1986.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 0.67 ft below sea level. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in Sept. 1971, at least 10% of contributing drainage area has been regulated. Stage-discharge relation is affected by seasonal vegetal growth during most years. No known diversions. Low flow is mostly sustained by wastewater effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	128	998	546	340	76	1370	67	101	132	87	763
2	59	100	669	212	192	e600	1390	66	97	484	83	336
3	58	427	255	103	130	e250	1690	66	92	118	82	335
4	60	140	117	91	102	e140	1930	66	88	54	82	218
5	62	73	94	77	91	e750	1900	399	295	239	85	167
6	68	1270	131	67	75	1670	1850	132	367	551	221	490
7	127	993	161	78	67	1600	1780	926	199	477	474	1170
8	192	34	112	78	68	651	1680	272	517	193	248	1680
9	177	619	92	70	85	375	1080	652	2700	101	139	822
10	113	963	76	372	88	e305	360	1460	464	81	101	713
11	88	109	74	838	75	e240	118	1340	296	75	83	1760
12	79	392	60	1020	67	e270	101	1020	1370	73	73	1690
13	74	1070	261	733	61	e210	86	588	1770	69	73	1070
14	72	990	191	292	60	e575	81	481	1720	68	71	1610
15	74	666	130	207	61	982	77	225	878	67	70	1310
16	75	573	96	402	75	1610	472	152	92	97	66	1110
17	409	312	74	411	83	1610	251	126	265	191	64	251
18	557	1240	63	227	70	599	633	109	1160	202	65	100
19	616	769	53	647	74	735	1290	98	1470	155	65	93
20	731	1450	51	1680	78	e560	359	93	1530	101	64	334
21	272	1950	58	1590	73	e180	127	94	1110	83	64	344
22	149	1340	54	1320	72	e125	100	98	597	70	64	434
23	118	68	59	602	70	e108	88	88	939	64	64	343
24	100	635	329	306	76	113	148	87	388	68	61	662
25	86	513	179	229	77	106	243	86	112	72	63	1570
26	121	1080	127	170	67	96	207	267	92	153	66	962
27	191	1350	120	148	59	744	129	353	102	190	163	233
28	122	1370	452	116	61	2880	93	166	163	57	439	145
29	197	423	807	612	---	767	77	114	255	48	307	112
30	348	1770	768	1100	---	1050	70	99	185	372	317	95
31	178	---	721	877	---	1010	---	92	---	178	1490	---
TOTAL	5630	22817	7432	15221	2497	20987	19780	9882	19414	4883	5394	20922
MEAN	182	761	240	491	89.2	677	659	319	647	158	174	697
MAX	731	1950	998	1680	340	2880	1930	1460	2700	551	1490	1760
MIN	57	34	51	67	59	76	70	66	88	48	61	93
AC-FT	11170	45260	14740	30190	4950	41630	39230	19600	38510	9690	10700	41500

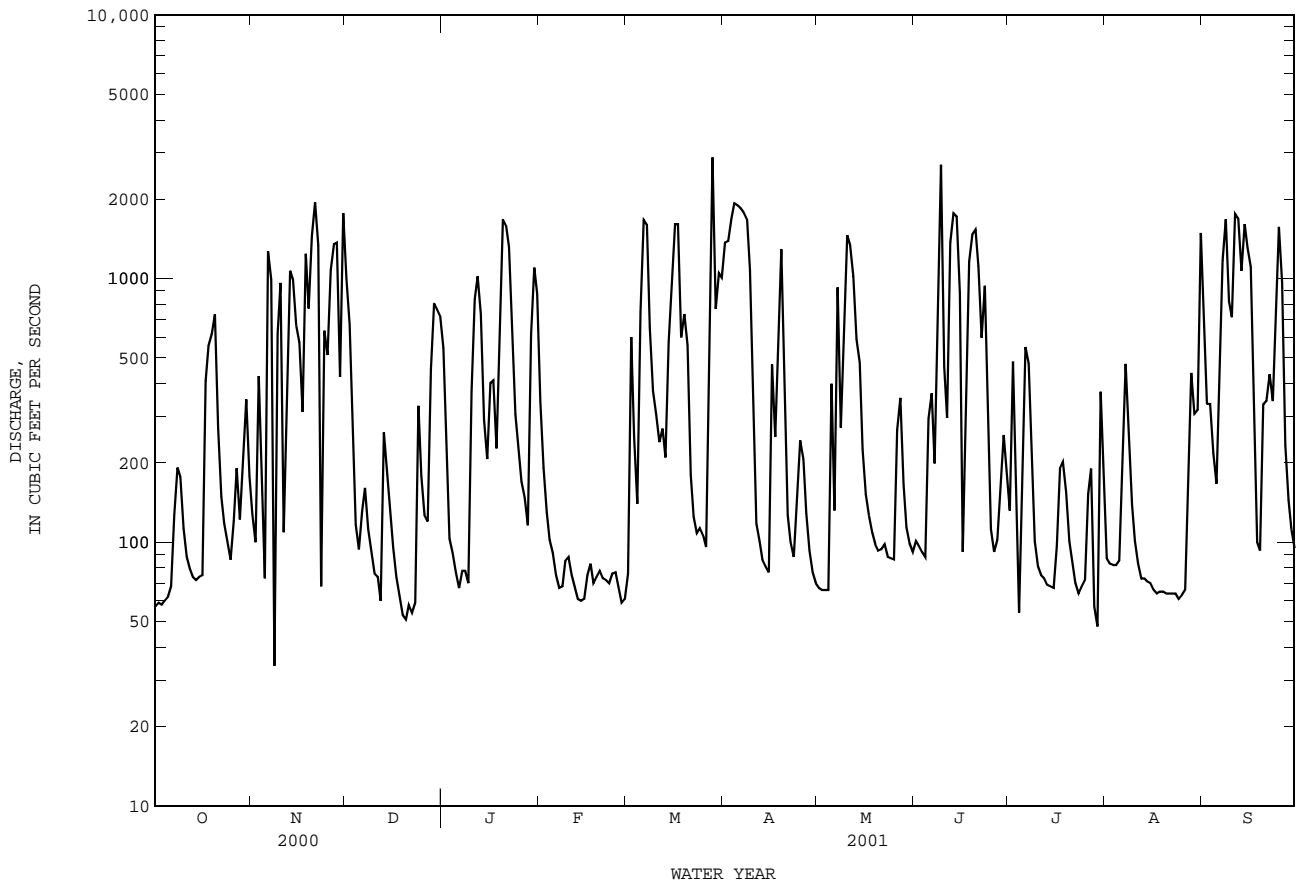
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	320	390	382	390	389	336	329	367	445	255	189	345
MAX	1288	1609	1214	1133	1619	1701	1639	965	1129	956	784	1278
(WY)	1999	1999	1999	1992	1992	1992	1992	1992	1973	1993	1983	1981
MIN	58.5	38.4	62.4	84.8	36.2	39.6	46.0	54.5	60.3	63.1	65.4	59.4
(WY)	1979	1972	1990	1986	1976	1976	1978	1996	1998	1996	1999	1999

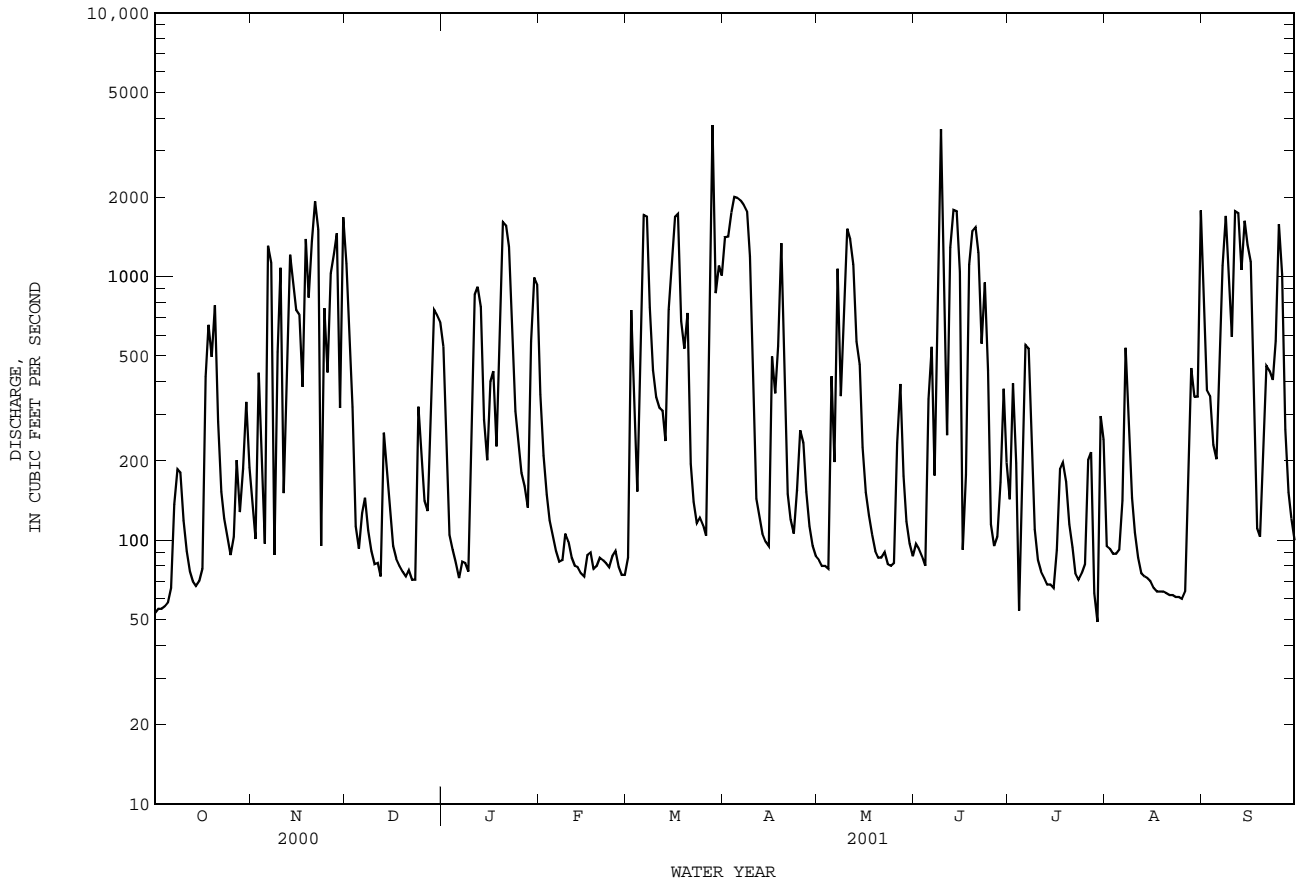
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1971 - 2001
ANNUAL TOTAL	80749	154859	
ANNUAL MEAN	221	424	
HIGHEST ANNUAL MEAN			854
LOWEST ANNUAL MEAN			142
HIGHEST DAILY MEAN	1950	Nov 21	2880
LOWEST DAILY MEAN	33	Apr 10	34
ANNUAL SEVEN-DAY MINIMUM	39	Apr 18	59
MAXIMUM PEAK FLOW			3960
MAXIMUM PEAK STAGE			60.36
ANNUAL RUNOFF (AC-FT)	160200	307200	249200
10 PERCENT EXCEEDS	629	1310	1030
50 PERCENT EXCEEDS	72	177	108
90 PERCENT EXCEEDS	47	67	46

e Estimated

08073600 Buffalo Bayou at West Belt Drive, Houston, TX--Continued



08073700 Buffalo Bayou at Piney Point, TX--Continued



SAN JACINTO RIVER BASIN

08074000 Buffalo Bayou at Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°45'36", long 95°24'30", Harris County, Hydrologic Unit 12040104, on right bank at downstream side of bridge on Shepherd Drive in Houston and 0.8 mi upstream from Waugh Drive.

DRAINAGE AREA.--358 mi², unadjusted for basin boundary changes.

PERIOD OF RECORD.--May 1936 to Sept. 1957 (daily mean discharge), Oct. 1957 to Dec. 1961 (high-water records and discharge measurements), Jan. 1962 to Sept. 1975 (daily mean discharge), Oct. 1975 to current year (high-water records and discharge measurements).

Water-quality records.--Chemical data: Oct. 1968 to July 1981, Apr. 1986 to Sept. 2000. Biochemical data: Oct. 1968 to July 1981. Pesticide data: Feb. 1969 to July 1981. Specific conductance: Apr. 1996 to Sept. 2000. pH: June 1998 to Sept. 2000. Water temperature: Apr. 1986 to Sept. 2000. Dissolved oxygen: Apr. 1986 to Sept. 2000.

REVISED RECORDS.--WSP 1732: Drainage area (former site).

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1.36 ft below sea level, 1973 adjustment; records unadjusted for land-surface subsidence. Prior to June 19, 1936, nonrecording gage, and June 19, 1936, to Jan. 16, 1962, water-stage recorder at site 0.8 mi downstream at datum 4.08 ft lower. Jan. 17, 1962, to Sept. 30, 1973, auxiliary water-stage recorder 0.8 mi downstream. Water-stage recorder at Whiteoak Bayou at Main Street (station 08074598) used as auxiliary gage after Sept. 30, 1993. Satellite telemeter at station.

REMARKS.--Records good. Since water year 1994 floodflows are regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 26.3 and 26.8 mi upstream, flood peaks from the urbanized areas below these reservoirs are often independent of the regulation. Discharge is computed using a stage-fall-discharge relation for all storms that produce peak discharges above 2,000 ft³/s. Discharges below 1,000 ft³/s are computed or estimated following designated storm periods only. Low flow is mostly sustained by wastewater effluent from Houston suburbs. Gage heights are affected by tides, backwater from Whiteoak Bayou, and other streams.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--8 years (water years 1936-44), 272 ft³/s (197,100 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--26 years (water years 1945-57, 1963-75), 274 ft³/s (198,500 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s, June 9, 2001, gage height, 36.58 ft; maximum gage height, 40.00 ft, June 9, 2001; minimum daily, 1.3 ft³/s, May 24, 1939, Nov. 5, 1950, occurred prior to urban development and accompanying wastewater effluent releases.

EXTREMES OUTSIDE PERIOD OF RECORD.--All flood data at site 0.8 mi downstream at present datum. Maximum gage height since at least 1835, 49.0 ft Dec. 9, 1935 (discharge, 40,000 ft³/s); furnished by engineer for Harris County. Flood of May 31, 1929, reached a gage height of 43.5 ft (discharge, 19,000 ft³/s), at bridge on Capitol Avenue, affected by bridge; furnished by city of Houston.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,000 ft³/s, June 9 at 1430 hours, (gage height, 36.58 ft); maximum gage height, 40.00 ft, June 9 at 0600 hours (discharge, 10,800 ft³/s); minimum discharges not determined (affected by tides).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1990	---	---	---	1700	---	---	---	---	2440
2	---	---	---	---	---	---	1760	---	---	---	---	1200
3	---	---	---	---	---	---	2070	---	---	---	---	---
4	---	---	---	---	---	---	2430	---	---	---	---	---
5	---	---	---	---	---	---	2500	---	680	---	---	---
6	---	2460	---	---	---	1930	2460	---	3190	---	---	---
7	---	1650	---	---	---	2030	2370	1480	---	---	---	1330
8	---	---	---	---	---	1470	2250	---	---	---	---	2110
9	---	---	---	---	---	749	1820	---	9880	---	---	2040
10	---	---	---	---	---	---	---	2040	3340	---	---	---
11	---	---	---	1740	---	---	---	2190	---	---	---	2150
12	---	---	---	1040	---	---	---	1670	1310	---	---	2310
13	---	2200	---	1340	---	---	---	840	2400	---	---	1660
14	---	1110	---	---	---	874	---	---	2480	---	---	2060
15	---	1260	---	---	---	1820	---	---	2170	---	---	1890
16	---	1680	---	---	---	1880	---	---	---	---	---	1670
17	1100	878	---	---	---	2110	1170	---	---	---	---	---
18	---	2530	---	---	---	1300	---	---	---	---	---	---
19	---	1900	---	---	---	---	---	---	2020	---	---	---
20	---	1370	---	1600	---	---	---	---	2100	---	---	---
21	---	2260	---	1890	---	---	---	---	2070	---	---	---
22	---	2320	---	1710	---	---	---	---	929	---	---	---
23	---	---	---	1180	---	---	---	---	1370	---	---	1170
24	---	1630	---	---	---	---	---	---	992	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	1980
26	---	1270	---	---	---	---	---	---	---	---	---	1730
27	---	1380	---	---	---	---	---	---	---	---	---	---
28	---	2080	---	---	---	7300	---	---	---	---	---	---
29	---	---	---	---	---	2240	---	---	---	---	---	---
30	---	1770	---	---	---	1390	---	---	---	---	1300	---
31	---	---	---	---	---	1250	---	---	---	---	3690	---

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SAN JACINTO RIVER BASIN

08074150 Cole Creek at Deihl Road, Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°51'04", long 95°29'16", Harris County, Hydrologic Unit 12040104, on downstream side of bridge at Deihl Road in northwest Houston and 1.8 mi upstream from mouth.

DRAINAGE AREA.--7.5 mi².

PERIOD OF RECORD.--Apr. 1964 to Sept. 1986 (daily mean discharge), Oct. 1986 to Sept. 1992 (annual maximum discharge), Oct. 1992 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WDR TX-74-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level, 1957 adjustment; unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

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

AVERAGE DISCHARGE.--22 years (water years 1965-86), 8.08 ft³/s, (5,850 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,300 ft³/s, June 9, 2001, gage height, 81.59 ft; no flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0030	970	75.14	May 7	2130	703	73.98
Dec. 4	1300	594	73.44	June 5	2100	621	73.58
Mar. 14	1645	637	73.66	June 9	0215	3,300	81.59
Mar. 27	2045	1,200	76.00	Aug. 6	2030	588	73.41
May 7	0315	759	74.24				

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SAN JACINTO RIVER BASIN

08074250 Brickhouse Gulley at Costa Rica Street, Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°49'40", long 95°28'09", Harris County, Hydrologic Unit 12040104, at downstream side of bridge at Costa Rica Street in northwest Houston and 1.0 mi upstream from Whiteoak Bayou.

DRAINAGE AREA.--11.4 mi².

PERIOD OF RECORD.--Aug. 1964 to Sept. 1981 (daily mean discharge), Oct. 1982 to Sept. 1983 (peak discharges greater than base discharge), Oct. 1983 to Sept. 1992 (annual maximum), Oct. 1992 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: Oct. 1981 to Sept. 1982. Biochemical data: Oct. 1981 to Sept. 1982.

REVISED RECORDS.--WRD TX-74-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Low-water concrete control since Dec. 9, 1970. Datum of gage is sea level; unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records fair. Low flow is partially sustained by wastewater effluent. No known regulation or diversions.

AVERAGE DISCHARGE.--17 years (1965-1981), 14.0 ft³/s (10,140 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft³/s, June 9, 2001, gage height, 73.00 ft (from indirect measurement of peak flow); no flow at times.

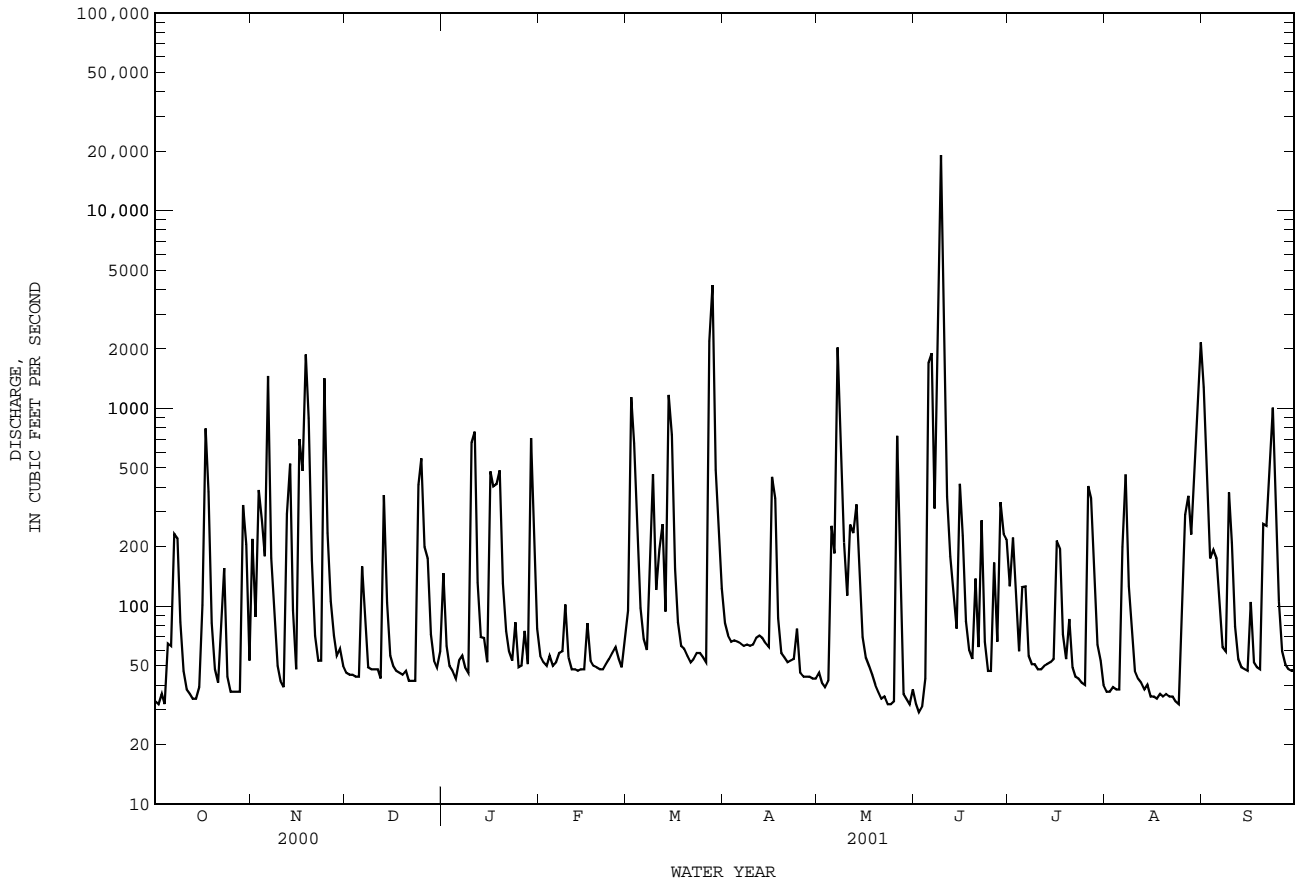
PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0100	2,940	64.59	June 5	2100	2,600	63.75
Mar. 14	1700	2,280	62.93	June 9	Unknown	12,400	73.00
Mar. 27	2045	3,060	64.84	Sept. 23	1115	2,770	64.18
May 7	0115	2,270	62.88				

i From indirect measurement of peak flow.

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08074500 Whiteoak Bayou at Houston, TX--Continued



SAN JACINTO RIVER BASIN

08074598 Whiteoak Bayou at Main Street, Houston, TX

LOCATION.--Lat 29°45'59", long 95°21'30", Harris County, Hydrologic Unit 12040104, on right bank at Main street bridge, 700 ft upstream from Buffalo Bayou 3.0 miles downstream from Whiteoak Bayou at Houston (station 08074500).

DRAINAGE AREA.--127 mi².

PERIOD OF RECORD.--Nov. 1992 to current year (gage-height only).

Water-quality records.--Specific conductance: May 1992 to Sept. 1997. Water temperature: May 1992 to Sept. 1997. Dissolved oxygen: May 1992 to Sept. 1997.

GAGE.--Water-stage recorder. Datum of gage is sea level, 1978 adjustment, unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Mostly tidal, affected by local runoff.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height 38.59 ft, June 9, 2001; minimum gage height, -1.57 ft, Aug. 14, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 38.59 ft, June 9; minimum gage height, 0.37 ft, Feb. 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.55	3.14	5.60	4.05	5.03	3.03	3.86	2.30	3.80	2.17	3.57	1.88
2	4.64	3.27	5.29	3.35	3.62	1.34	3.53	2.24	3.54	1.98	5.81	2.65
3	4.74	3.18	5.05	4.09	3.48	2.36	3.15	2.07	3.75	1.87	4.55	3.05
4	4.77	3.36	5.30	3.26	3.88	2.47	3.07	1.74	3.45	1.56	3.16	1.24
5	4.91	3.20	4.61	3.39	3.77	2.71	3.09	1.54	3.32	1.22	3.19	.84
6	4.74	2.61	11.93	3.92	4.14	2.17	3.30	1.35	3.61	1.53	4.19	2.55
7	4.16	2.44	4.99	3.68	3.90	2.17	3.60	1.65	4.01	1.96	4.37	2.81
8	3.37	2.06	5.52	2.81	4.10	2.41	3.27	.83	4.26	2.23	5.15	2.99
9	4.47	2.13	3.50	1.69	4.06	2.14	3.55	1.21	4.19	1.72	4.63	1.97
10	4.62	3.18	4.79	3.30	4.25	2.25	9.51	3.00	3.24	1.10	4.86	2.60
11	4.57	3.35	5.23	3.18	4.12	2.25	8.26	2.47	3.92	2.43	5.13	3.84
12	4.28	3.27	8.43	3.54	3.99	1.14	3.78	1.65	4.04	3.12	4.88	3.47
13	4.62	3.31	7.68	2.78	5.35	3.08	4.46	3.40	3.75	2.45	4.21	2.63
14	4.91	3.20	4.23	2.00	4.31	1.87	4.35	2.25	3.74	2.28	11.42	2.47
15	4.76	3.09	4.85	3.18	4.38	2.72	3.81	2.55	3.89	2.24	7.45	3.35
16	5.53	2.95	9.32	3.46	4.35	1.25	5.26	3.41	3.73	1.38	4.14	2.69
17	10.05	2.89	4.77	2.71	2.39	.61	5.04	3.39	3.00	.37	5.30	3.39
18	5.21	2.75	10.35	3.66	3.52	1.41	3.66	2.15	3.76	1.77	5.03	3.26
19	4.48	2.64	7.75	3.28	1.69	.56	3.54	1.38	4.25	2.46	4.12	2.35
20	4.63	2.83	4.77	3.36	3.86	1.49	3.53	1.74	4.19	2.21	3.14	1.78
21	4.56	2.87	4.89	3.65	3.53	1.70	4.00	2.90	3.79	2.12	3.58	1.79
22	5.26	3.51	4.85	3.92	4.19	1.90	3.94	2.31	3.78	1.96	3.64	2.03
23	5.20	3.63	5.03	3.01	4.27	2.56	3.75	1.96	4.96	3.17	3.84	2.29
24	5.31	4.11	9.85	3.01	4.89	2.64	3.52	1.84	5.82	3.72	3.93	2.78
25	5.40	4.13	3.29	1.29	5.06	3.20	3.41	1.41	4.28	2.44	3.78	2.14
26	5.30	3.95	4.10	2.25	5.20	3.45	3.69	2.09	4.13	2.92	4.30	2.80
27	4.98	3.60	4.44	2.54	4.21	1.46	3.95	2.26	3.95	3.20	18.86	3.19
28	5.04	3.44	4.62	3.36	2.64	.59	3.99	2.60	3.90	2.77	21.62	8.10
29	5.10	3.61	4.51	2.20	2.54	1.21	4.37	3.11	---	---	8.10	4.00
30	5.08	3.34	4.68	3.57	2.89	1.46	4.23	2.67	---	---	4.79	3.21
31	4.91	3.50	---	---	3.75	2.79	4.02	2.70	---	---	4.50	2.93
MONTH	10.05	2.06	11.93	1.29	5.35	.56	9.51	.83	5.82	.37	21.62	.84

SAN JACINTO RIVER BASIN

08074710 Buffalo Bayou at Turning Basin, Houston, TX

LOCATION.--Lat 29°44'57", long 95°17'27", Harris County, Hydrologic Unit 12040104, on left bank at Wharf No. 5 at end of private road, 1.8 mi upstream from Brays Bayou and 4.9 mi east of downtown Houston.

DRAINAGE AREA.--476 mi².

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--Jan. 1987 to current year (elevation only).

GAGE.--Water-stage recorder. Datum of gage is sea level, 1978 adjustment, unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records fair. Only very large storms or hurricane surge produces elevations above normal tidal fluctuations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, a9.6 ft, June 9, 2001; minimum, -3.1 ft Mar. 6, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, a9.6 ft, June 9; minimum elevation, -2.4 ft, Dec. 29.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.3	1.0	1.8	3.1	1.6	2.5	3.2	1.3	2.3	.6	-.8	-.3
2	2.4	1.1	1.9	3.0	1.2	2.2	2.2	.1	1.1	.4	-.6	-.2
3	2.5	1.0	1.9	2.8	1.4	2.1	1.8	1.0	1.4	.2	-.7	-.2
4	2.6	1.2	2.0	2.8	.9	1.9	2.5	1.1	1.8	.3	-.9	-.2
5	2.7	1.0	2.0	2.2	1.1	1.9	2.3	1.3	1.8	.5	-1.0	-.1
6	2.5	.4	1.7	3.4	1.2	2.3	2.6	.7	1.7	.7	-1.1	-.1
7	1.7	.2	1.1	2.3	1.1	1.8	2.3	.7	1.4	1.1	-.7	.3
8	1.1	-.2	.5	3.1	.6	1.9	2.5	1.0	1.9	.9	-1.4	-.2
9	2.2	-.1	1.3	1.1	-.6	.3	2.4	.6	1.6	1.2	-1.0	.2
10	2.3	1.0	1.9	2.2	.6	1.3	2.6	.7	1.8	3.4	.6	1.6
11	2.3	1.3	1.8	2.8	.9	1.9	2.5	.7	1.8	3.0	.1	1.4
12	2.0	1.1	1.5	4.0	1.3	2.4	2.2	-.4	.7	1.3	-.5	.3
13	2.3	1.1	1.6	3.4	-.1	1.3	3.0	1.2	2.1	2.0	.9	1.4
14	2.6	1.0	1.8	1.7	-.5	.6	2.5	.2	1.4	2.0	.4	1.3
15	2.5	1.0	1.7	2.5	.8	1.7	2.5	1.0	1.9	1.5	.4	.8
16	2.7	.9	1.8	3.2	.6	2.0	2.5	-.5	1.2	2.5	1.1	1.8
17	3.1	.6	1.7	2.2	.1	1.1	.4	-1.0	-.3	2.6	1.1	1.7
18	2.3	.4	1.5	3.1	1.3	2.3	1.6	-.4	.9	1.1	-.2	.7
19	2.2	.4	1.5	2.6	.8	1.7	-.3	-1.3	-.9	.7	-1.1	-.3
20	2.1	.5	1.5	2.3	.7	1.4	1.8	-.5	.7	.6	-1.5	-.7
21	2.2	.6	1.8	1.9	.7	1.3	1.5	-.2	.8	1.2	.2	.7
22	3.0	1.1	2.3	1.8	.6	1.2	2.1	-.1	.9	1.3	-.6	.4
23	2.9	1.5	2.4	2.6	.7	1.6	2.2	.6	1.6	1.2	-.5	.5
24	3.0	2.0	2.5	3.4	-.1	1.5	2.1	.4	1.4	1.2	-.4	.6
25	3.1	2.0	2.5	.9	-1.0	-.1	2.9	1.1	1.9	1.2	-.7	.3
26	3.0	1.8	2.4	1.5	-.5	.6	3.0	1.3	2.1	1.4	.0	.8
27	2.7	1.4	2.1	2.9	.5	1.5	1.9	-.7	.4	1.6	.1	.8
28	2.7	1.3	1.9	2.9	1.2	2.3	.3	-1.6	-.7	1.7	.4	1.3
29	2.8	1.5	2.3	3.0	1.0	2.1	.1	-2.4	-1.1	1.8	.2	1.1
30	2.7	1.1	1.9	2.9	1.6	2.4	-.5	-1.9	-1.3	1.8	.3	.9
31	2.6	1.3	2.1	---	---	---	.5	-.5	-.1	1.4	.1	.6
MONTH	3.1	-.2	1.8	4.0	-1.0	1.6	3.2	-2.4	1.0	3.4	-1.5	.6

08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

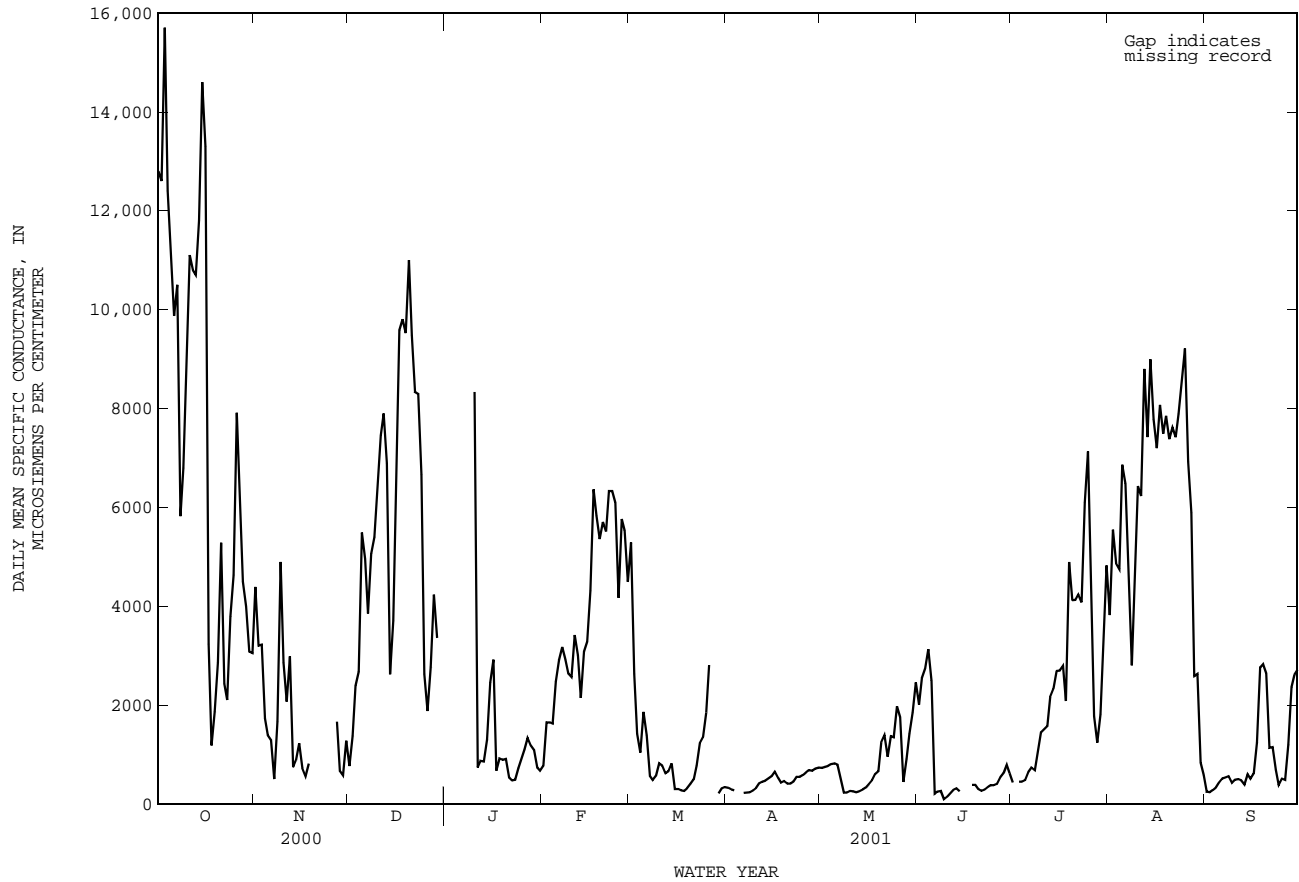
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	.0	.9	.8	-.8	.2	1.8	-.4	.7	2.9	.8	1.9
2	1.3	-.2	.5	1.2	-.6	.4	2.1	-.1	1.1	3.1	1.6	2.4
3	1.5	-.3	.6	1.1	-.3	.4	1.9	.0	1.2	3.2	2.0	2.5
4	1.2	-.6	.5	.3	-1.5	-.5	1.7	-.1	.9	3.2	2.0	2.6
5	1.0	-.9	.2	.3	-1.8	-.8	2.4	---	---	3.0	2.1	2.5
6	1.0	-.5	.4	.8	-1.4	-.2	2.8	1.6	2.1	3.2	1.6	2.4
7	1.2	.0	.6	1.1	-.9	.2	2.8	1.5	2.1	2.5	.7	1.8
8	1.4	.2	.9	1.8	-.1	.8	2.7	1.2	1.9	2.1	.5	1.4
9	1.4	-.3	.7	1.2	-.8	.2	2.6	1.0	1.9	2.2	.3	1.4
10	.5	-.9	-.5	2.1	-.2	.8	3.0	---	---	2.5	.3	1.7
11	1.1	-.2	.4	2.3	.9	1.6	2.9	---	---	2.5	.7	1.7
12	1.3	.4	.8	2.0	.7	1.2	2.4	.6	1.5	2.2	.4	1.4
13	1.0	-.2	.5	1.4	.0	.7	2.1	.2	1.2	2.0	.2	1.3
14	1.0	-.4	.5	3.9	-.2	1.2	2.1	.0	1.1	1.9	.1	1.1
15	1.1	-.4	.5	1.6	.3	.9	1.8	.3	1.2	2.1	.4	1.3
16	.9	-1.4	-.3	.8	-1.1	-.1	2.2	.0	.9	2.1	.7	1.4
17	.3	-2.3	-1.3	2.0	-.2	.9	1.3	-.1	.7	2.2	1.1	1.6
18	1.0	-.9	.1	1.9	.3	1.2	---	.6	---	2.2	1.3	1.7
19	1.5	-.2	.7	1.4	-.3	.4	2.6	1.1	1.7	1.7	1.0	1.4
20	1.4	-.4	.6	.3	-1.5	-.6	2.5	1.5	2.0	2.0	.6	1.4
21	1.0	-.6	.3	.8	-.9	-.1	2.2	1.4	1.8	2.4	.8	1.6
22	1.0	-.7	.3	.8	-.7	.1	3.0	1.8	2.3	1.3	.0	.7
23	2.1	.5	1.2	1.0	-.4	.3	2.6	1.5	2.0	1.9	-.2	1.2
24	2.9	1.1	1.9	1.1	.1	.6	1.6	.3	.9	2.3	.2	1.4
25	1.6	-.2	.7	1.0	-.5	.2	1.8	-.2	1.1	1.8	-.2	1.1
26	1.3	.2	.8	1.5	.1	.9	2.4	.2	1.4	2.3	-.1	1.2
27	1.2	.5	.8	2.8	.5	1.4	2.1	.2	1.3	2.3	.1	1.4
28	1.1	.1	.6	3.3	1.8	2.7	2.5	.1	1.4	2.2	.5	1.6
29	---	---	---	2.5	1.1	1.7	2.6	.3	1.6	2.2	.5	1.5
30	---	---	---	1.8	.3	1.1	2.9	.8	1.9	2.5	.9	1.7
31	---	---	---	1.6	.0	.9	---	---	---	2.2	.9	1.4
MONTH	2.9	-2.3	.5	3.9	-1.8	.6	3.0	-.4	1.5	3.2	-.2	1.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1.3	.6	1.0	2.0	.3	1.3	---	---	---	3.2	1.0	2.0
2	1.6	.3	1.2	2.4	.2	1.5	---	---	---	2.6	.7	1.6
3	2.2	.4	1.5	2.3	.5	1.6	---	---	---	2.0	.4	1.4
4	2.9	.9	2.1	2.2	.3	1.4	---	---	---	2.0	.8	1.4
5	7.6	1.6	3.7	2.0	.1	1.3	---	---	---	2.1	.7	1.4
6	6.7	1.6	2.9	1.8	.2	1.2	---	---	---	2.2	1.1	1.5
7	2.5	.8	1.7	2.1	.0	1.2	---	---	---	2.2	1.3	1.8
8	3.6	.6	2.0	1.8	.2	1.1	---	---	---	2.5	1.1	1.9
9	a9.6	3.3	---	1.7	.0	1.0	---	---	---	2.8	.6	2.0
10	---	---	---	1.5	.0	.9	---	---	---	2.5	.5	1.5
11	---	---	---	1.3	.1	.8	---	---	---	2.2	.2	1.4
12	2.3	.8	---	1.5	.3	.9	---	---	---	2.0	.3	1.4
13	2.6	1.0	1.8	1.3	.2	.7	---	---	---	2.6	.3	1.9
14	2.8	1.6	2.1	.9	.2	.6	.9	.2	.7	3.0	1.0	2.3
15	1.8	.8	1.6	1.4	.1	1.0	1.5	.2	1.0	2.8	1.0	2.2
16	1.6	.3	1.0	1.6	.2	1.2	1.5	.4	1.2	2.7	1.0	2.0
17	1.6	.3	1.0	2.2	.4	1.6	1.5	.6	1.2	2.4	1.0	1.8
18	2.0	.3	1.3	2.1	.7	1.6	2.0	.2	1.2	2.7	.8	1.8
19	2.2	.3	1.4	2.1	.4	1.5	1.9	-.1	1.1	2.6	.9	1.7
20	2.1	.2	1.3	1.7	.5	1.3	1.8	-.1	1.0	2.2	.3	1.1
21	2.2	.1	1.3	1.7	.5	1.2	2.0	.3	1.3	2.3	.2	1.3
22	2.0	-.3	1.0	1.5	.6	1.1	2.0	.7	1.3	2.2	.5	1.5
23	2.0	-.2	1.2	---	---	---	1.9	.9	1.4	2.6	.7	1.8
24	2.2	.1	1.4	---	---	---	2.0	.8	1.4	2.3	.0	1.2
25	2.3	.2	1.5	---	---	---	1.9	.6	1.5	2.0	.3	1.4
26	2.4	.7	1.6	---	---	---	1.9	.6	1.5	2.1	.6	1.5
27	2.2	.4	1.3	---	---	---	1.8	.4	1.2	2.1	.6	1.5
28	2.3	.9	1.6	---	---	---	2.6	.3	1.5	1.9	.5	1.5
29	2.4	.7	1.7	---	---	---	3.2	.4	1.9	2.0	.6	1.4
30	2.1	.5	1.5	---	---	---	3.1	1.2	2.1	1.8	.4	1.3
31	---	---	---	---	---	---	3.0	1.3	2.2	---	---	---
MONTH	a9.6	-.3	1.6	2.4	.0	1.2	3.2	-.1	1.4	3.2	.0	1.6

a From Floodmark.

08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1030	532	769	6450	4140	5290	369	299	326	742	722	731
2	3980	672	1650	6510	770	2630	324	248	297	784	727	749
3	3620	1010	1650	3630	672	1420	313	250	275	795	742	768
4	2760	1250	1620	1940	575	1040	---	---	---	825	780	804
5	3620	1510	2480	3740	1140	1860	---	---	---	852	784	821
6	3200	2370	2910	4300	541	1390	272	203	224	803	779	796
7	4350	1920	3170	835	375	566	254	210	228	796	334	510
8	4150	1860	2920	621	408	482	273	218	240	345	193	228
9	3670	1620	2640	704	467	569	298	252	270	322	211	232
10	3920	1610	2570	1220	598	817	403	295	324	289	246	266
11	4350	2440	3420	1220	539	775	583	304	419	266	240	255
12	3670	2030	3010	720	549	618	581	389	449	257	219	238
13	2500	1860	2140	819	531	660	580	412	472	298	247	256
14	3790	2490	3080	1160	353	819	586	466	513	381	271	286
15	4500	2360	3280	530	258	302	635	477	564	382	301	325
16	5590	3290	4310	316	272	299	704	572	655	450	325	400
17	8230	3750	6360	294	248	278	668	442	526	520	378	479
18	7420	4560	5830	340	242	264	443	422	430	675	489	609
19	6930	4070	5360	453	285	320	530	429	466	773	563	665
20	7240	4310	5700	524	349	403	431	377	414	1670	749	1250
21	9230	3620	5510	633	396	496	450	386	413	1860	1160	1390
22	9050	4400	6330	1160	633	773	543	413	454	1400	693	959
23	8190	5550	6330	2120	786	1230	579	531	549	1670	1050	1370
24	7590	3740	6090	1990	1080	1350	591	522	550	1620	1160	1350
25	7580	3260	4170	2200	1460	1850	689	520	587	3460	1290	1970
26	8470	4210	5760	3690	1680	2810	712	609	646	3050	992	1750
27	6640	4830	5530	3150	---	---	754	644	685	1890	260	443
28	5630	3470	4490	---	---	---	693	649	674	1710	479	909
29	---	---	---	286	161	209	766	693	718	1980	916	1420
30	---	---	---	359	270	316	750	705	733	3080	1160	1850
31	---	---	---	395	303	341	---	---	---	4210	1750	2460
MONTH	9230	532	3900	---	---	---	---	---	---	4210	193	856
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3050	1360	2010	460	387	431	6040	2460	3820	333	213	253
2	3410	1820	2550	---	---	---	6990	4380	5550	263	217	236
3	3280	2170	2740	459	449	453	7310	3230	4870	329	253	284
4	4250	2340	3130	463	440	451	7860	2480	4750	372	321	342
5	4760	590	2490	666	446	484	9460	3840	6860	584	372	444
6	590	154	205	738	510	645	9410	4380	6480	634	447	516
7	307	195	248	998	540	739	8540	2490	4280	600	473	533
8	277	231	266	877	510	684	4810	1700	2800	843	359	562
9	231	74	95	1680	552	1040	6070	1940	4440	599	320	430
10	194	108	145	1910	1060	1450	8240	4390	6430	881	403	493
11	236	194	214	1840	1280	1510	9090	4680	6230	611	421	506
12	326	233	282	2120	1210	1580	12500	6650	8800	727	336	474
13	334	293	314	3110	1730	2170	9100	5970	7420	484	328	393
14	303	226	255	2930	1820	2330	13500	6810	8990	1760	342	599
15	---	---	---	3490	2080	2690	9920	5470	7780	1200	339	512
16	---	---	---	3950	2060	2700	10100	4940	7200	1040	364	610
17	---	---	---	3880	2180	2790	11100	5630	8070	2990	429	1240
18	428	363	384	3770	1480	2080	10900	5240	7490	4910	1190	2760
19	432	298	385	7360	3110	4890	10300	6100	7850	4980	1650	2830
20	342	253	295	5840	2810	4120	10200	5690	7380	4170	1460	2640
21	267	250	261	7760	1850	4130	9610	5760	7610	2720	592	1140
22	354	262	291	5990	2650	4240	8870	6010	7420	2180	395	1150
23	397	306	342	10400	2310	4080	9940	6270	7890	1730	376	693
24	394	359	378	10000	4200	6100	10000	5940	8570	702	258	382
25	392	374	382	10300	5260	7130	13100	5410	9210	753	367	510
26	517	388	406	7260	1470	5200	10500	4450	6920	753	297	484
27	559	507	537	6860	894	1780	10600	1940	5890	2920	409	1200
28	732	553	617	2040	803	1240	5360	1400	2580	3990	1210	2360
29	895	724	791	2480	1440	1810	4890	1020	2630	4890	1390	2610
30	834	414	620	8330	1400	3550	2320	425	833	6600	1500	2710
31	---	---	---	8960	2640	4820	963	218	572	---	---	---
MONTH	---	---	---	---	---	---	13500	218	6050	6600	213	997



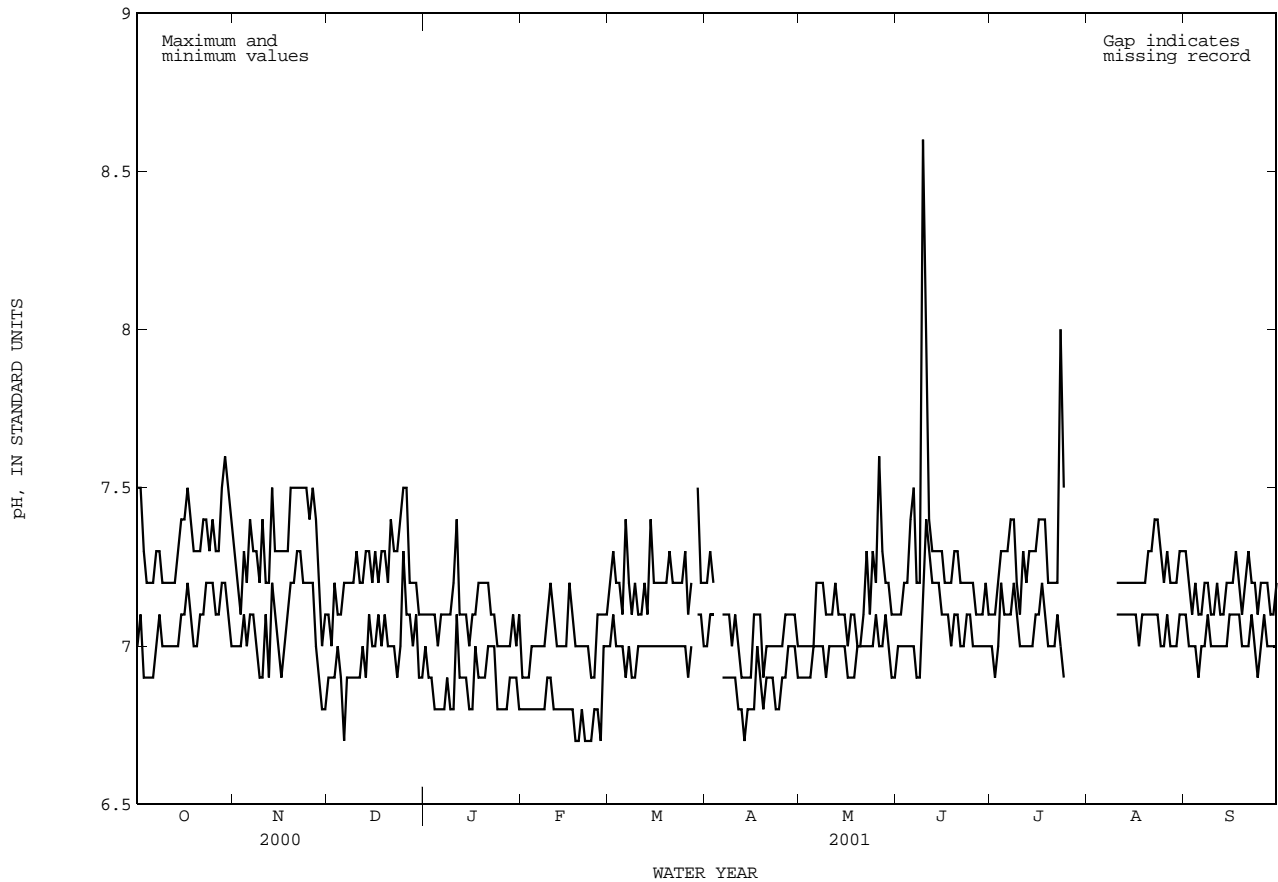
PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.0	7.3	7.0	7.1	6.9	7.1	7.0	6.9	6.8	7.2	7.0
2	7.5	7.1	7.2	7.0	7.0	6.9	7.1	6.9	6.9	6.8	7.3	7.1
3	7.3	6.9	7.1	7.0	7.2	6.9	7.1	6.9	6.9	6.8	7.2	7.0
4	7.2	6.9	7.3	7.1	7.1	7.0	7.1	6.8	7.0	6.8	7.2	7.0
5	7.2	6.9	7.2	7.0	7.1	6.9	7.0	6.8	7.0	6.8	7.1	7.0
6	7.2	6.9	7.4	7.1	7.2	6.7	7.1	6.8	7.0	6.8	7.4	6.9
7	7.3	7.0	7.3	7.1	7.2	6.9	7.1	6.8	7.0	6.8	7.2	7.0
8	7.3	7.1	7.3	7.0	7.2	6.9	7.1	6.9	7.0	6.8	7.1	6.9
9	7.2	7.0	7.2	6.9	7.2	6.9	7.1	6.8	7.1	6.9	7.2	6.9
10	7.2	7.0	7.4	6.9	7.3	6.9	7.2	6.8	7.2	6.9	7.1	7.0
11	7.2	7.0	7.2	7.1	7.2	6.9	7.4	7.1	7.1	6.8	7.1	7.0
12	7.2	7.0	7.2	6.9	7.2	7.0	7.1	6.9	7.0	6.8	7.2	7.0
13	7.2	7.0	7.5	7.2	7.3	6.9	7.1	6.9	7.0	6.8	7.1	7.0
14	7.3	7.0	7.3	7.1	7.3	7.1	7.1	6.9	7.0	6.8	7.4	7.0
15	7.4	7.1	7.3	7.0	7.2	7.0	7.0	6.8	7.0	6.8	7.2	7.0
16	7.4	7.1	7.3	6.9	7.3	7.0	7.1	6.8	7.2	6.8	7.2	7.0
17	7.5	7.2	7.3	7.0	7.2	7.1	7.1	7.0	7.1	6.8	7.2	7.0
18	7.4	7.1	7.3	7.1	7.3	7.0	7.2	6.9	7.0	6.7	7.2	7.0
19	7.3	7.0	7.5	7.2	7.3	7.1	7.2	6.9	7.0	6.7	7.2	7.0
20	7.3	7.0	7.5	7.2	7.2	7.0	7.2	6.9	7.0	6.8	7.3	7.0
21	7.3	7.1	7.5	7.3	7.4	7.0	7.2	7.0	7.0	6.7	7.2	7.0
22	7.4	7.1	7.5	7.3	7.3	7.0	7.1	7.0	7.0	6.7	7.2	7.0
23	7.4	7.2	7.5	7.2	7.3	6.9	7.1	7.0	6.9	6.7	7.2	7.0
24	7.3	7.2	7.5	7.2	7.4	7.0	7.0	6.8	6.9	6.8	7.2	7.0
25	7.4	7.2	7.4	7.2	7.5	7.3	7.0	6.8	7.1	6.8	7.3	7.0
26	7.3	7.1	7.5	7.2	7.5	7.1	7.0	6.8	7.1	6.7	7.1	6.9
27	7.3	7.1	7.4	7.0	7.2	7.1	7.0	6.8	7.1	7.0	7.2	7.0
28	7.5	7.2	7.2	6.9	7.2	7.0	7.0	6.9	7.1	7.0	---	---
29	7.6	7.2	7.0	6.8	7.2	7.1	7.1	6.9	---	---	7.5	7.1
30	7.5	7.1	7.1	6.8	7.1	6.9	7.0	6.9	---	---	7.2	7.1
31	7.4	7.0	---	---	7.1	6.9	7.1	6.8	---	---	7.2	7.0
MONTH	7.6	6.9	7.5	6.8	7.5	6.7	7.4	6.8	7.2	6.7	---	---

08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.2	7.0	7.0	6.9	7.1	7.0	7.1	7.0	---	---	7.3	7.1
2	7.3	7.1	7.0	6.9	7.1	7.0	7.1	6.9	---	---	7.2	7.0
3	7.2	7.1	7.0	6.9	7.2	7.0	7.2	7.0	---	---	7.1	7.0
4	---	---	7.0	6.9	7.2	7.0	7.3	7.2	---	---	7.2	7.0
5	---	---	7.0	7.0	7.4	7.0	7.3	7.1	---	---	7.1	6.9
6	7.1	6.9	7.2	7.0	7.5	7.0	7.3	7.1	---	---	7.1	7.0
7	7.1	6.9	7.2	7.0	7.2	6.9	7.4	7.1	---	---	7.2	7.0
8	7.1	6.9	7.2	7.0	7.2	6.9	7.4	7.2	---	---	7.2	7.1
9	7.0	6.9	7.1	6.9	8.6	7.2	7.2	7.1	---	---	7.1	7.0
10	7.1	6.9	7.1	7.0	8.0	7.4	7.1	7.0	7.2	7.1	7.1	7.0
11	7.0	6.8	7.1	7.0	7.4	7.3	7.3	7.0	7.2	7.1	7.2	7.0
12	6.9	6.8	7.2	7.0	7.3	7.2	7.2	7.0	7.2	7.1	7.1	7.0
13	6.9	6.7	7.1	7.0	7.3	7.2	7.3	7.0	7.2	7.1	7.1	7.0
14	6.9	6.8	7.1	7.0	7.3	7.2	7.3	7.0	7.2	7.1	7.2	7.0
15	6.9	6.8	7.1	7.0	7.3	7.1	7.3	7.1	7.2	7.1	7.2	7.1
16	7.1	6.8	7.0	6.9	7.2	7.1	7.4	7.1	7.2	7.1	7.2	7.1
17	7.1	7.0	7.1	6.9	7.2	7.1	7.4	7.2	7.2	7.0	7.3	7.1
18	7.1	6.9	7.1	6.9	7.2	7.0	7.4	7.1	7.2	7.1	7.2	7.1
19	6.9	6.8	7.0	7.0	7.3	7.1	7.2	7.0	7.2	7.1	7.1	7.0
20	7.0	6.9	7.0	7.0	7.3	7.1	7.2	7.0	7.3	7.1	7.2	7.0
21	7.0	6.9	7.1	7.0	7.2	7.0	7.2	7.0	7.3	7.1	7.3	7.0
22	7.0	6.9	7.3	7.0	7.2	7.0	7.2	7.1	7.4	7.1	7.2	7.1
23	7.0	6.8	7.1	7.0	7.2	7.1	8.0	7.0	7.4	7.1	7.2	7.0
24	7.0	6.8	7.3	7.0	7.2	7.1	7.5	6.9	7.3	7.0	7.1	6.9
25	7.0	6.9	7.2	7.1	7.2	7.0	---	---	7.2	7.0	7.2	7.0
26	7.1	6.9	7.6	7.0	7.1	7.0	---	---	7.3	7.1	7.2	7.1
27	7.1	7.0	7.3	7.0	7.1	7.0	---	---	7.2	7.0	7.2	7.0
28	7.1	7.0	7.2	7.1	7.1	7.0	---	---	7.2	7.0	7.1	7.0
29	7.1	7.0	7.2	7.0	7.2	7.0	---	---	7.2	7.0	7.1	7.0
30	7.0	6.9	7.1	6.9	7.1	7.0	---	---	7.3	7.1	7.2	7.0
31	---	---	7.1	6.9	---	---	---	---	7.3	7.1	---	---
MONTH	---	---	7.6	6.9	8.6	6.9	---	---	---	---	7.3	6.9



SAN JACINTO RIVER BASIN

08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

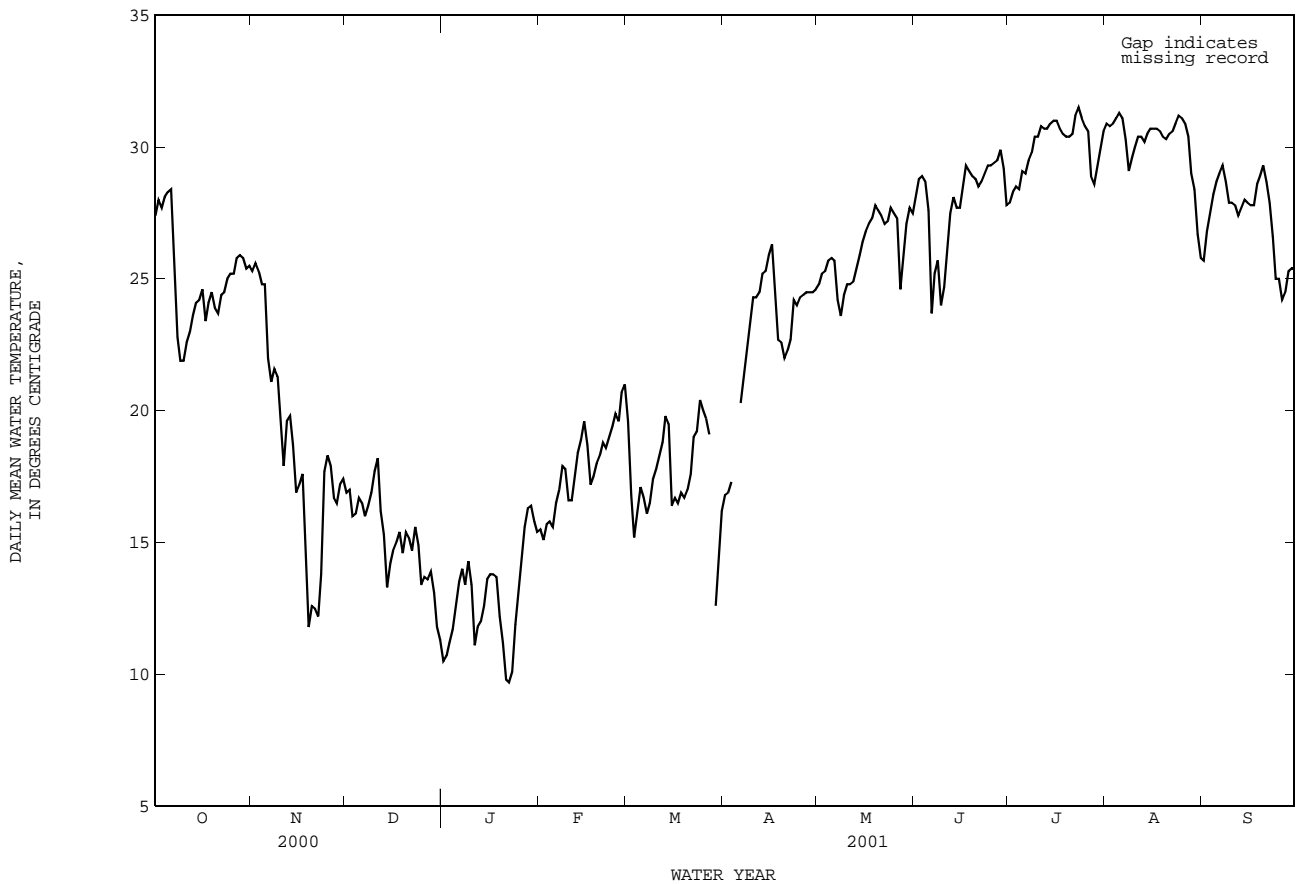
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.4	26.5	27.4	26.4	24.8	25.3	17.2	16.6	16.9	11.0	10.2	10.5
2	28.9	27.0	28.0	26.3	25.2	25.6	17.6	16.6	17.0	11.3	9.9	10.7
3	28.3	27.3	27.7	26.2	24.7	25.3	17.5	15.4	16.0	12.2	10.3	11.2
4	29.0	27.3	28.1	25.0	24.7	24.8	16.8	15.5	16.1	13.8	9.8	11.7
5	29.4	27.6	28.3	25.2	24.6	24.8	18.0	15.4	16.7	14.6	11.6	12.6
6	29.0	27.5	28.4	24.9	20.9	22.0	17.9	15.3	16.5	14.6	12.4	13.5
7	27.5	25.1	26.1	21.5	20.9	21.1	18.0	15.1	16.0	15.6	12.1	14.0
8	25.2	21.5	22.8	22.1	21.1	21.6	18.3	15.5	16.4	14.6	12.8	13.4
9	23.3	20.6	21.9	22.4	20.4	21.3	18.3	16.2	16.9	15.4	13.3	14.3
10	23.1	20.9	21.9	22.9	17.8	19.6	19.3	16.4	17.7	15.1	11.2	13.4
11	24.4	20.6	22.6	18.5	17.3	17.9	19.1	16.8	18.2	11.7	10.6	11.1
12	24.3	21.8	23.0	20.6	17.8	19.6	18.5	14.5	16.2	12.3	11.5	11.8
13	24.5	22.6	23.6	20.5	18.5	19.8	16.9	13.8	15.3	12.7	11.5	12.0
14	25.7	23.2	24.1	19.5	17.9	18.7	14.4	12.6	13.3	13.4	12.0	12.6
15	24.9	23.5	24.2	18.9	15.8	16.9	16.0	13.0	14.2	14.7	13.0	13.6
16	25.2	23.8	24.6	18.0	15.8	17.2	15.4	14.3	14.7	14.6	13.0	13.8
17	24.2	22.9	23.4	18.0	17.2	17.6	16.5	13.8	15.0	14.1	13.4	13.8
18	24.9	23.4	24.1	17.2	11.7	15.1	17.4	13.9	15.4	14.2	13.3	13.7
19	25.6	23.8	24.5	12.1	11.4	11.8	15.3	14.0	14.6	13.5	11.3	12.2
20	24.7	23.3	23.9	13.4	11.8	12.6	17.0	14.4	15.4	12.4	10.5	11.2
21	24.4	23.2	23.7	12.9	12.0	12.5	17.0	14.0	15.2	10.5	9.2	9.8
22	25.1	23.5	24.4	12.8	11.8	12.2	16.6	13.4	14.7	10.7	9.2	9.7
23	25.1	23.8	24.5	15.4	12.6	13.8	16.9	13.2	15.6	10.7	9.9	10.1
24	26.2	24.0	25.0	19.0	14.3	17.7	16.5	13.8	14.9	13.0	10.1	11.9
25	26.4	24.2	25.2	19.1	17.8	18.3	14.2	12.9	13.4	14.6	11.6	13.2
26	26.2	24.5	25.2	18.7	17.2	17.9	14.6	12.9	13.7	15.9	12.4	14.4
27	26.6	25.0	25.8	17.5	16.1	16.7	14.6	13.1	13.6	16.9	14.0	15.6
28	26.5	25.3	25.9	16.9	16.0	16.5	14.4	13.1	13.9	17.6	15.4	16.3
29	26.2	25.2	25.8	18.4	16.7	17.2	15.6	12.3	13.1	17.2	15.7	16.4
30	26.0	25.0	25.4	18.3	16.8	17.4	12.7	11.0	11.8	16.2	15.4	15.8
31	26.1	25.0	25.5	---	---	---	12.5	10.8	11.3	16.0	15.0	15.4
MONTH	29.4	20.6	25.0	26.4	11.4	18.6	19.3	10.8	15.2	17.6	9.2	12.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.2	15.5	20.3	19.1	19.6	18.8	15.6	16.8	25.5	24.3	24.8
2	16.4	13.9	15.1	19.5	14.5	16.8	17.5	16.4	16.9	26.5	24.4	25.2
3	16.9	14.3	15.7	16.2	14.6	15.2	17.8	16.6	17.3	26.0	24.8	25.3
4	16.8	15.1	15.8	17.5	15.1	16.1	---	---	---	26.7	25.2	25.7
5	16.8	14.9	15.6	18.4	16.2	17.1	---	---	---	26.4	25.2	25.8
6	17.0	15.8	16.5	18.0	16.2	16.7	21.2	19.6	20.3	26.3	25.4	25.7
7	18.4	15.8	17.0	16.5	15.6	16.1	22.1	20.9	21.4	25.8	23.0	24.2
8	19.2	16.5	17.9	17.8	16.1	16.5	23.4	21.8	22.5	25.0	22.6	23.6
9	19.1	16.9	17.8	17.9	17.0	17.4	24.2	22.9	23.4	25.7	23.7	24.4
10	17.8	15.5	16.6	18.5	17.2	17.8	25.0	23.8	24.3	26.1	24.5	24.8
11	17.5	15.6	16.6	18.8	17.5	18.3	24.9	24.0	24.3	25.9	24.4	24.8
12	18.7	15.5	17.5	19.6	18.0	18.8	25.1	24.1	24.5	25.5	24.4	24.9
13	18.8	17.8	18.4	21.5	19.0	19.8	26.3	24.3	25.2	27.0	24.8	25.4
14	20.1	18.3	18.9	20.5	16.8	19.5	26.1	24.8	25.3	28.0	25.2	25.9
15	20.1	18.8	19.6	17.4	15.9	16.4	27.5	25.1	25.9	28.2	26.0	26.4
16	19.9	17.7	18.7	17.7	16.1	16.7	26.8	25.9	26.3	27.9	26.2	26.8
17	18.2	16.1	17.2	16.9	16.1	16.5	26.1	23.0	24.5	28.0	26.7	27.1
18	18.7	16.0	17.5	18.5	15.9	16.9	23.1	22.3	22.7	28.8	26.5	27.3
19	18.7	17.2	18.0	17.5	16.4	16.7	23.0	22.2	22.6	29.3	27.0	27.8
20	19.1	17.3	18.3	18.0	16.4	17.0	22.4	21.5	22.0	28.6	26.7	27.6
21	19.6	17.3	18.8	20.0	16.5	17.6	23.5	21.4	22.3	28.1	27.0	27.4
22	19.2	17.4	18.6	20.5	17.1	19.0	23.2	22.2	22.7	28.0	26.4	27.1
23	19.7	17.8	19.0	21.6	18.4	19.2	25.8	23.1	24.2	28.6	26.2	27.2
24	20.3	18.3	19.4	22.4	18.8	20.4	24.4	23.4	24.0	29.7	26.7	27.7
25	20.5	18.6	19.9	21.2	19.0	20.0	25.6	23.4	24.3	28.6	27.0	27.5
26	20.5	18.2	19.6	20.7	19.0	19.7	25.1	23.8	24.4	28.2	24.6	27.3
27	21.9	19.6	20.7	20.5	18.4	19.1	25.5	23.9	24.5	26.2	23.2	24.6
28	21.5	20.2	21.0	---	---	---	25.2	23.9	24.5	27.2	25.2	26.0
29	---	---	---	13.8	11.8	12.6	24.9	24.3	24.5	28.4	26.1	27.1
30	---	---	---	15.8	13.6	14.7	25.1	24.2	24.6	28.9	27.1	27.7
31	---	---	---	19.9	14.8	16.2	---	---	---	28.0	27.2	27.5
MONTH	21.9	13.9	17.9	---	---	---	---	---	---	29.7	22.6	26.1

08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

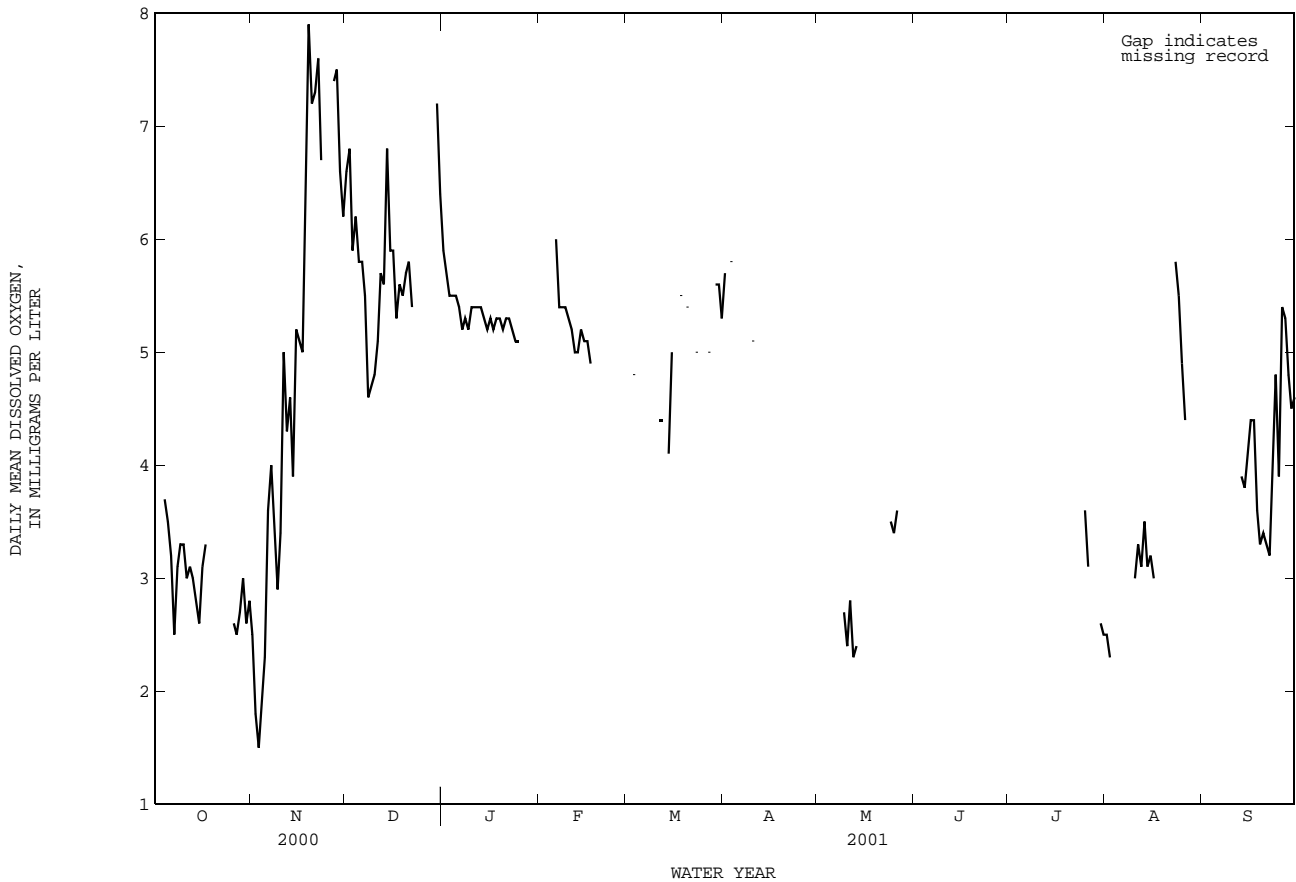
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	30.8	27.0	28.2	28.4	27.6	27.9	32.7	29.5	30.9	26.2	25.4	25.7
2	30.7	27.8	28.8	29.8	27.6	28.3	32.0	29.6	30.8	27.7	26.1	26.8
3	29.8	28.2	28.9	29.6	28.0	28.5	32.3	29.8	30.9	28.8	27.0	27.5
4	29.4	28.0	28.7	29.6	28.0	28.4	32.5	30.0	31.1	28.7	27.8	28.2
5	28.7	24.0	27.6	31.7	28.2	29.1	33.0	30.4	31.3	29.3	28.2	28.7
6	24.4	23.3	23.7	30.8	28.1	29.0	32.3	30.2	31.1	30.2	28.4	29.0
7	25.9	24.4	25.2	30.6	29.0	29.5	31.2	28.8	30.3	30.2	28.7	29.3
8	26.9	25.4	25.7	31.1	29.0	29.8	29.9	28.0	29.1	29.3	28.1	28.7
9	25.7	23.5	24.0	32.4	29.6	30.4	30.5	28.8	29.6	28.3	27.7	27.9
10	25.2	24.4	24.7	31.6	29.7	30.4	30.9	29.3	30.0	29.8	26.9	27.9
11	28.1	25.1	26.0	33.8	29.8	30.8	31.8	29.5	30.4	28.5	27.3	27.8
12	29.8	26.3	27.5	32.6	30.0	30.7	31.3	29.7	30.4	27.7	27.2	27.4
13	28.9	27.6	28.1	32.6	30.0	30.7	31.0	29.6	30.2	28.5	27.3	27.7
14	28.4	27.1	27.7	32.2	29.9	30.9	31.8	29.7	30.5	28.8	27.4	28.0
15	28.2	27.5	27.7	32.2	30.3	31.0	32.3	29.8	30.7	28.5	27.5	27.9
16	29.8	27.7	28.5	32.2	30.2	31.0	32.2	29.8	30.7	28.8	27.4	27.8
17	30.9	28.1	29.3	31.6	30.1	30.7	31.8	29.9	30.7	28.5	27.4	27.8
18	30.1	28.4	29.1	31.4	30.0	30.5	32.2	29.5	30.6	29.9	28.1	28.6
19	30.3	28.6	28.9	30.8	30.0	30.4	31.0	29.6	30.4	30.5	28.3	28.9
20	30.5	28.1	28.8	31.9	29.6	30.4	31.9	29.1	30.3	31.0	28.6	29.3
21	29.2	28.1	28.5	32.5	29.4	30.5	31.5	29.6	30.5	29.5	28.1	28.7
22	29.8	28.0	28.7	33.4	29.7	31.2	32.0	29.5	30.6	28.6	27.3	27.9
23	30.6	28.1	29.0	33.4	30.2	31.5	32.3	30.2	30.9	27.5	24.7	26.6
24	30.5	28.5	29.3	32.4	30.2	31.1	32.5	30.3	31.2	25.6	24.7	25.0
25	30.7	28.6	29.3	31.3	30.4	30.8	31.9	30.3	31.1	25.3	24.8	25.0
26	30.6	28.9	29.4	31.3	29.6	30.6	31.5	30.4	30.9	24.9	23.8	24.2
27	30.7	29.0	29.5	29.8	28.1	28.9	31.5	29.6	30.4	25.8	23.5	24.5
28	31.0	29.2	29.9	30.1	27.9	28.6	29.7	28.6	29.0	26.9	23.9	25.3
29	30.8	27.7	29.2	30.9	28.2	29.3	29.0	27.4	28.4	26.8	24.2	25.4
30	29.2	27.4	27.8	31.7	28.9	30.0	27.4	26.3	26.7	27.0	23.8	25.4
31	---	---	---	31.8	29.5	30.6	26.4	25.6	25.8	---	---	---
MONTH	31.0	23.3	27.9	33.8	27.6	30.0	33.0	25.6	30.2	31.0	23.5	27.3



08074710 Buffalo Bayou at Turning Basin, Houston, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	3.8	1.5	2.5	---	---	---
2	---	---	---	---	---	---	4.1	1.5	2.3	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	3.9	2.1	3.0	---	---	---
11	---	---	---	---	---	---	4.9	1.9	3.3	---	---	---
12	---	---	---	---	---	---	4.4	2.0	3.1	---	---	---
13	---	---	---	---	---	---	5.3	2.2	3.5	4.4	2.9	3.9
14	---	---	---	---	---	---	4.3	1.9	3.1	4.3	3.1	3.8
15	---	---	---	---	---	---	5.0	2.0	3.2	4.6	3.7	4.1
16	---	---	---	---	---	---	5.1	2.0	3.0	5.3	3.7	4.4
17	---	---	---	---	---	---	---	---	---	5.2	3.7	4.4
18	---	---	---	---	---	---	---	---	---	4.6	2.8	3.6
19	---	---	---	---	---	---	---	---	---	4.3	2.6	3.3
20	---	---	---	---	---	---	---	---	---	4.8	2.4	3.4
21	---	---	---	---	---	---	---	---	---	3.9	2.7	3.3
22	---	---	---	---	---	---	---	---	---	4.2	2.3	3.2
23	---	---	---	---	---	---	8.2	4.2	5.8	6.2	2.7	3.9
24	---	---	---	---	---	---	7.9	3.7	5.5	6.5	3.3	4.8
25	---	---	---	4.0	1.6	3.6	7.0	3.2	4.9	5.3	2.9	3.9
26	---	---	---	4.6	1.9	3.1	6.0	3.3	4.4	6.9	3.6	5.4
27	---	---	---	---	---	---	---	---	---	6.5	4.4	5.3
28	---	---	---	---	---	---	---	---	---	5.9	3.7	4.8
29	---	---	---	---	---	---	---	---	---	5.7	3.2	4.5
30	---	---	---	4.4	1.6	2.6	---	---	---	5.8	3.2	4.6
31	---	---	---	3.8	1.5	2.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



SAN JACINTO RIVER BASIN

08074800 Keegans Bayou at Roark Road near Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°39'23", long 95°33'43", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Roark Road in southwest Houston.

DRAINAGE AREA.--12.7 mi². Oct. 1, 1976, to Dec. 31, 1977, 12.0 mi²; Aug. 1964 to Sept. 30, 1976, 11.6 mi². Drainage area changes were the result of ditch relocations or extensions.

PERIOD OF RECORD.--Aug. 1964 to Sept. 1981 (daily mean discharges). Oct. 1981 to Sept. 1992 (annual maximum discharge). Oct. 1992 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WRD TX-74-1: Drainage area. WDR TX-77-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level, 1957 adjustment; unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

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

AVERAGE DISCHARGE.--17 years (water years 1965-81), 12.3 ft³/s, (8,910 acre-ft/yr).

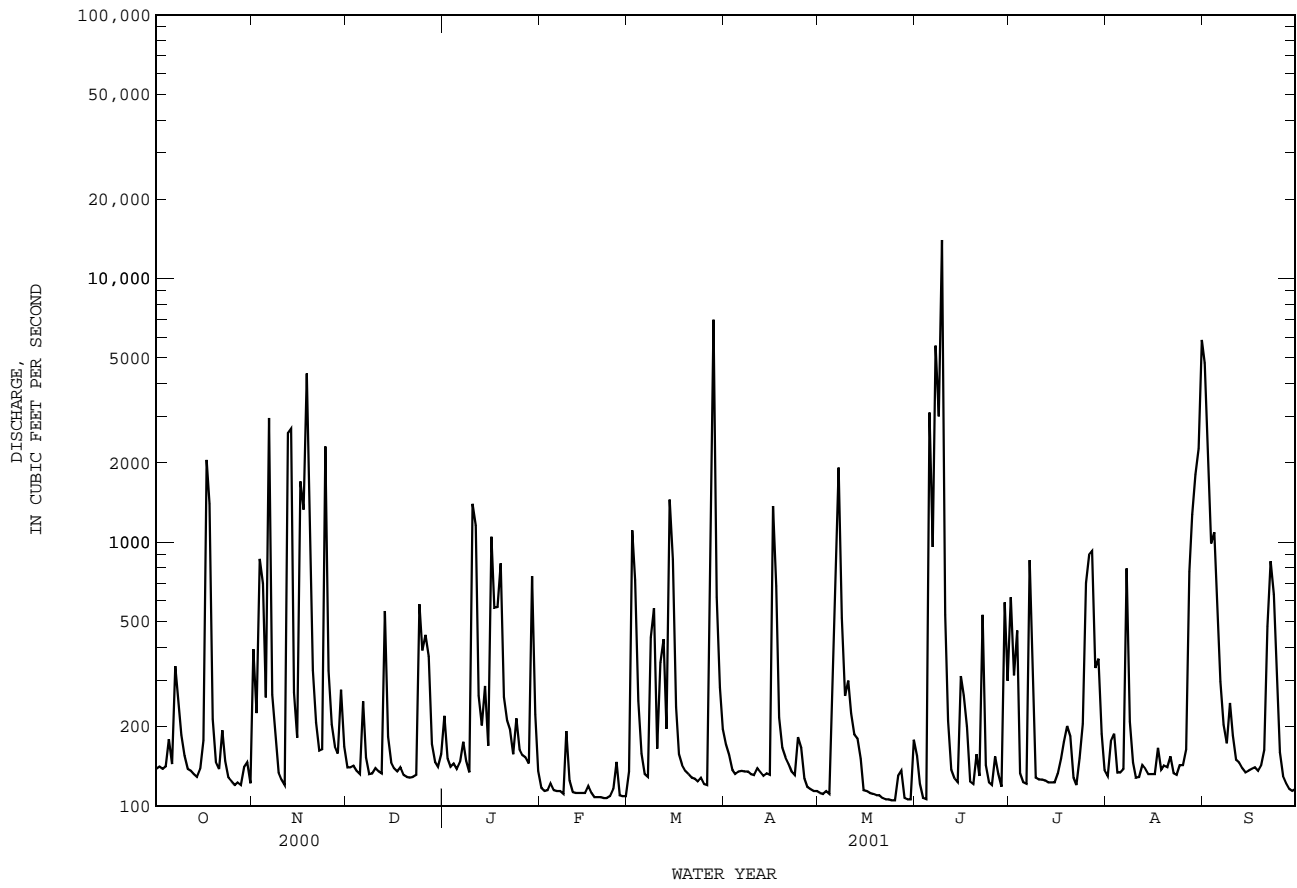
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s Mar. 4, 1992, gage height, 75.91 ft; no flow for many days.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	2100	2,530	74.04	June 7	0800	2,880	74.77
Mar. 28	0330	2,030	72.93	June 9	0100	1,790	72.32

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08075000 Brays Bayou at Houston, TX--Continued



SAN JACINTO RIVER BASIN

08075400 Sims Bayou at Hiram Clarke Street, Houston, TX

LOCATION.--Lat 29°37'07", long 95°26'45", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of bridge on Hiram Clarke in southwest Houston, 12.7 mi upstream from Sims Bayou at Houston (station 08075500), and 19.7 mi upstream from mouth.

DRAINAGE AREA.--20.2 mi².

PERIOD OF RECORD.--Aug. 1964 to Sept. 1978 (daily mean discharge), Dec. 1978 to Aug. 1979 (discharge measurements and supplemental peak discharges only), Oct. 1980 to Sept. 1991 (daily mean discharge), Oct. 1991 to Sept. 1992 (annual maximum), Oct. 1992 to Sept. 1996 (peak discharges greater than base discharge), Oct. 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level; unadjusted for land-surface subsidence. Satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	33	18	19	9.8	11	11	8.1	12	7.2	7.1	923
2	8.9	15	18	10	8.6	65	9.7	9.3	9.0	8.0	10	560
3	8.9	73	16	8.5	7.8	66	8.8	10	8.8	6.7	16	169
4	9.5	43	16	8.5	7.7	27	8.7	9.5	7.3	6.6	8.0	87
5	13	25	15	8.5	7.5	12	7.6	14	862	6.6	7.4	127
6	11	249	19	9.0	7.2	11	7.3	44	809	6.8	7.5	56
7	24	24	16	16	7.6	10	7.8	191	3210	21	8.3	24
8	20	14	12	12	10	41	7.7	27	939	17	9.1	16
9	16	10	9.2	8.8	18	157	7.4	14	4650	8.2	6.9	14
10	14	9.5	8.8	163	11	28	7.4	12	109	7.1	7.5	12
11	14	8.9	8.7	230	9.1	20	8.0	12	27	6.8	7.7	11
12	14	303	7.8	28	8.7	48	8.1	10	17	7.1	7.7	11
13	11	473	55	16	8.0	22	7.4	25	13	7.4	7.4	9.7
14	9.9	28	14	13	7.5	151	7.3	44	11	7.7	7.2	8.8
15	10	18	9.7	10	7.9	163	7.0	14	25	8.2	7.2	9.9
16	10	49	8.1	206	7.6	25	271	10	12	7.6	12	10
17	87	290	8.7	78	7.8	15	116	9.0	13	8.1	8.4	10
18	84	1140	13	102	8.1	11	18	9.0	8.1	12	12	10
19	14	324	8.3	161	7.5	9.4	9.8	9.5	8.3	9.4	15	10
20	8.5	40	8.5	28	7.6	8.5	8.0	9.3	8.2	8.2	14	10
21	8.4	20	7.1	19	7.4	8.9	7.9	7.2	10	8.1	7.6	22
22	11	17	7.3	15	7.3	8.0	7.5	7.4	32	7.5	7.6	180
23	7.7	17	7.3	11	7.6	7.9	7.5	7.0	17	7.3	7.7	128
24	7.3	512	200	13	7.5	8.2	9.7	7.2	13	7.7	8.2	38
25	7.1	50	e90	10	8.5	8.1	8.4	7.5	13	13	8.2	20
26	7.0	24	110	9.0	8.0	8.1	7.5	7.9	15	10	13	16
27	7.2	19	60	9.1	8.2	29	7.0	8.2	15	16	31	12
28	7.4	16	20	9.0	7.8	673	7.2	9.0	8.4	11	40	12
29	8.9	23	13	72	---	54	7.5	8.4	7.7	8.3	104	13
30	7.5	20	9.5	19	---	24	7.8	7.4	7.5	7.9	221	13
31	6.8	---	9.5	12	---	14	---	31	---	7.1	1080	---
TOTAL	483.6	3887.4	823.5	1333.4	237.3	1744.1	622.0	598.9	10897.3	281.6	1714.7	2542.4
MEAN	15.6	130	26.6	43.0	8.48	56.3	20.7	19.3	363	9.08	55.3	84.7
MAX	87	1140	200	230	18	673	271	191	4650	21	1080	923
MIN	6.8	8.9	7.1	8.5	7.2	7.9	7.0	7.0	7.3	6.6	6.9	8.8
AC-FT	959	7710	1630	2640	471	3460	1230	1190	21610	559	3400	5040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001h, BY WATER YEAR (WY)

	MEAN	28.5	29.6	27.5	40.3	34.4	26.7	30.5	40.7	54.3	18.3	26.9	38.4
MAX	125	130	119	155	82.0	103	134	138	363	60.1	154	156	
(WY)	1998	2001	1987	1991	1985	1997	1997	1970	2001	1983	1983	1979	
MIN	5.45	4.69	6.91	5.96	7.10	3.62	4.96	9.25	6.18	3.69	5.35	8.19	
(WY)	1965	1968	1971	1965	1976	1965	1965	1998	1967	1965	1965	1965	

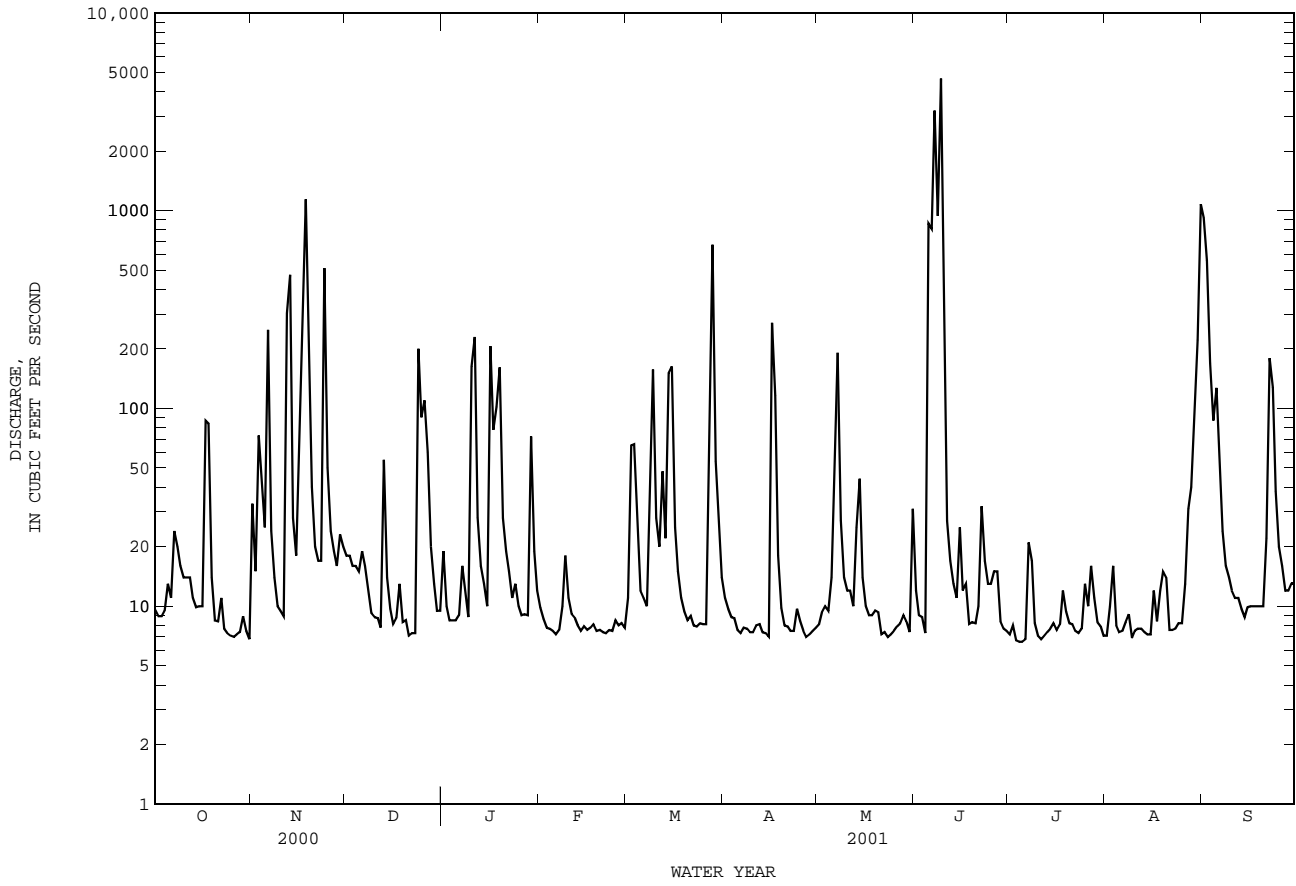
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001h

ANNUAL TOTAL		11274.6		25166.2									
ANNUAL MEAN		30.8		68.9						32.7			
HIGHEST ANNUAL MEAN										68.9			2001
LOWEST ANNUAL MEAN										10.7			1967
HIGHEST DAILY MEAN				1140	Nov 18		4650	Jun 9		4650	Jun 9		2001
LOWEST DAILY MEAN				6.5	Mar 10		6.6	Jul 4		1.5	Jul 26		1965
ANNUAL SEVEN-DAY MINIMUM				7.0	Jul 1		7.1	Jun 30		2.2	Jul 22		1965
MAXIMUM PEAK FLOW							9030	Jun 9		9030	Jun 9		2001
MAXIMUM PEAK STAGE							55.96	Jun 9		57.12	Jun 15		1976
ANNUAL RUNOFF (AC-FT)			22360				49920			23680			
10 PERCENT EXCEEDS			40				95			45			
50 PERCENT EXCEEDS			11				10			12			
90 PERCENT EXCEEDS			7.5				7.4			6.0			

e Estimated

h See PERIOD OF RECORD paragraph.

08075400 Sims Bayou at Hiram Clarke Street, Houston, TX--Continued



SAN JACINTO RIVER BASIN

08075500 Sims Bayou at Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°40'27", long 95°17'21", Harris County, Hydrologic Unit 12040104, on left bank of State Highway 35 in southeast Houston and 7.0 mi upstream from mouth.

DRAINAGE AREA.--63.0 mi².

PERIOD OF RECORD.--Oct. 1952 to Sept. 1995 (daily mean discharge), Oct. 1995 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: Oct. 1968 to Sept. 1998. Biochemical data: Oct. 1968 to Sept. 1998. Pesticide data: Oct. 1968 to Sept. 1998. Specific conductance: July 1993 to Sept. 1997. Water temperature: July 1993 to Sept. 1997. Dissolved oxygen: July 1993 to Sept. 1997.

REVISED RECORDS.--WSP 1922: 1960. 1975(M). WDR TX-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.09 ft below sea level, 1973 adjustment; unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records fair. Major channel rectification completed late in the 1997 water year. No known regulation or diversions. Low flow is largely sustained by wastewater effluent from Houston suburbs and from industrial wastes. Stage-discharge relation is tidally affected at low flow.

AVERAGE DISCHARGE.--43 YEARS (water years 1953-95), 96.5 ft³/s (69,900 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,800 ft³/s, June 9, 2001, Tropical Storm Allison (gage height, 27.91 ft); Maximum gage height, 33.23 ft Aug. 18, 1983, Hurricane Alica; minimum daily, 0.9 ft³/s, Aug. 7, 1955.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	2100	3,500	10.46	June 7	1345	7,160	14.49
Nov. 18	1445	4,110	11.23	June 9	0500	25,800	27.91
Mar. 14	1715	2,820	9.56	Aug. 31	0600	5,650	12.96
Mar. 28	0400	4,000	11.09	Sept. 1	1145	4,450	11.63

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SAN JACINTO RIVER BASIN

08075650 Berry Bayou at Forest Oaks Street, Houston, TX

LOCATION.--Lat 29°40'35", long 95°14'37", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of bridge at Forest Oaks Street in southeast Houston, 0.8 mi upstream from mouth of Berry Creek, and 1.7 mi upstream from Sims Bayou.

DRAINAGE AREA.--10.7 mi².

PERIOD OF RECORD.--Apr. 1964 to Sept. 1966 (daily mean discharge). Oct. 1967 to Sept. 1982 (discharge greater than base discharge), Oct. 1982 to current year (gage heights only).

Water-quality records.--Chemical data: Oct. 1968 to Sept. 1981. Biochemical data: Oct. 1968 to Sept. 1981. Pesticide data: Oct. 1968 to Sept. 1981. Water temperature: Apr. 1964 to Sept. 1981.

REVISED RECORDS.--WDR TX-80-2: 1979(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2.72 ft below sea level, 1973 adjustment. June 1964 to Jan. 1965, auxiliary nonrecording gage 0.8 mi downstream at same datum. Jan. 1965 to Sept. 1982, auxiliary water-stage recorder 0.8 mi downstream at same datum. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Low stages are affected by tides. Rises are occasionally affected by backwater from Sims Bayou. The U.S. Geological Survey report series "Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan area", for water years 1965-84, contains additional storm runoff data for this station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s, June 9, 1975; maximum gage height, 26.52 ft, June 9, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.52 ft, June 9; minimum gage height, 3.52 ft, July 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.62	4.18	6.34	4.76	5.56	3.76	4.79	3.82	5.01	3.80	4.92	3.62
2	5.72	4.31	6.25	4.30	4.71	3.69	4.55	3.75	4.68	3.80	6.08	4.04
3	5.83	4.21	6.04	4.60	4.27	3.77	4.22	3.68	4.91	3.76	6.07	4.27
4	5.86	4.45	6.09	4.47	4.96	3.71	4.15	3.68	4.64	3.80	4.38	3.98
5	5.95	4.23	5.71	4.48	4.80	3.84	4.18	3.66	4.44	3.80	4.32	3.74
6	5.77	3.78	9.14	4.60	5.12	3.84	4.36	3.65	4.76	3.80	4.75	3.77
7	5.07	3.74	5.72	4.37	4.92	3.69	5.27	3.61	5.23	3.82	4.82	3.60
8	4.48	3.81	7.46	4.12	5.13	3.70	4.34	3.81	5.37	3.82	9.02	3.65
9	5.49	3.77	4.42	3.74	5.12	3.66	4.56	3.71	5.35	3.89	7.11	4.04
10	5.65	4.26	5.53	3.87	5.28	3.68	8.08	3.98	4.39	3.75	5.93	3.93
11	5.59	4.41	6.20	4.19	5.14	3.72	7.72	4.21	5.04	3.82	6.09	4.60
12	5.36	4.33	13.60	4.53	5.03	3.62	4.76	3.94	5.16	4.26	5.84	4.43
13	5.65	4.33	9.90	4.14	6.17	4.15	5.35	4.23	4.88	3.81	5.29	3.70
14	5.92	4.23	5.04	3.83	5.34	3.77	5.33	3.82	4.91	3.71	11.25	3.78
15	5.79	4.16	5.80	4.00	5.40	3.82	4.89	3.75	4.95	3.71	6.12	4.35
16	9.15	4.06	6.92	4.72	5.36	3.81	8.29	4.48	4.78	3.83	4.75	3.96
17	10.18	4.09	7.01	4.54	3.87	3.77	5.97	4.50	4.19	3.69	6.09	3.91
18	5.80	3.82	7.38	4.80	4.57	3.76	4.61	4.12	4.86	3.71	5.92	4.20
19	5.45	3.71	6.54	4.32	3.82	3.66	5.28	4.08	5.33	3.72	5.36	3.92
20	5.32	3.72	5.68	4.09	4.89	3.61	4.17	3.91	5.21	3.70	4.31	3.81
21	5.44	3.83	5.32	4.08	4.60	3.70	4.59	3.81	4.83	3.73	4.89	3.83
22	6.22	4.32	5.20	3.91	5.18	3.65	4.71	3.84	4.84	3.73	4.83	3.88
23	6.13	4.63	5.74	3.99	5.29	3.72	4.67	3.86	5.96	4.24	5.07	3.96
24	6.25	5.09	8.99	4.07	5.38	3.92	4.69	3.94	6.82	4.76	5.15	4.11
25	6.31	5.13	4.27	3.85	6.10	4.17	4.56	3.86	5.45	3.78	5.00	3.94
26	6.25	4.95	4.89	3.74	6.19	4.42	4.80	3.85	5.24	4.10	5.47	4.06
27	5.92	4.51	5.13	3.72	5.36	3.86	5.07	3.87	5.12	4.27	7.45	4.36
28	5.95	4.38	5.17	3.71	3.89	3.75	5.14	3.91	4.88	3.81	8.03	5.88
29	6.07	4.56	5.29	3.90	3.94	3.73	6.06	4.26	---	---	6.63	5.09
30	5.94	4.21	5.23	3.90	3.81	3.66	5.25	3.98	---	---	5.73	4.15
31	5.87	4.41	---	---	4.73	3.79	4.88	3.89	---	---	5.59	3.97
MONTH	10.18	3.71	13.60	3.71	6.19	3.61	8.29	3.61	6.82	3.69	11.25	3.60

08075650 Berry Bayou at Forest Oaks Street, Houston, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.71	3.90	6.27	4.06	4.84	3.95	5.76	3.80	4.89	3.64	13.84	5.22
2	6.06	3.92	6.47	4.85	5.03	3.88	5.70	3.77	5.66	3.64	9.37	4.63
3	5.84	3.94	6.58	5.29	5.58	3.75	5.60	3.84	5.65	4.00	6.19	4.36
4	6.01	4.09	6.69	5.35	6.28	4.07	5.50	3.76	5.70	3.94	6.93	4.26
5	5.99	4.26	6.43	5.48	21.96	4.53	5.31	3.68	5.82	4.01	8.72	4.21
6	6.27	5.05	6.66	4.91	19.17	4.64	5.20	3.74	5.79	3.86	5.90	4.45
7	6.42	4.97	5.91	4.21	7.68	4.09	5.52	3.69	5.79	4.37	5.54	4.61
8	6.21	4.66	5.67	3.91	18.05	3.99	5.12	3.67	5.66	4.39	5.86	4.42
9	6.16	4.46	5.68	3.79	26.52	7.75	5.10	3.66	5.51	4.55	6.25	4.32
10	6.53	4.50	5.99	3.79	7.75	6.02	4.90	3.65	5.31	4.26	5.88	3.93
11	6.74	5.27	6.00	4.03	6.02	4.76	4.71	3.65	5.02	3.80	5.58	3.94
12	6.19	4.32	5.73	3.79	5.67	4.04	4.89	3.65	4.95	3.78	5.39	3.81
13	6.06	3.98	5.55	3.73	6.09	4.44	4.71	3.67	4.72	3.71	5.98	3.81
14	5.95	3.82	5.37	3.74	6.31	5.07	4.35	3.74	4.72	3.70	6.40	4.33
15	5.52	3.88	5.60	3.78	5.55	4.18	4.89	3.73	5.22	3.75	6.28	4.39
16	5.99	3.89	5.45	4.08	5.00	3.79	5.03	3.73	5.29	3.71	6.15	4.44
17	4.99	3.76	5.64	4.47	4.89	3.76	5.56	3.74	5.19	3.73	5.81	4.52
18	5.77	4.26	5.67	4.49	5.19	3.76	5.87	3.77	5.61	3.76	6.24	4.30
19	6.23	4.60	5.14	4.22	5.32	3.75	5.43	3.83	5.56	3.80	6.13	4.33
20	6.02	4.95	5.33	3.84	5.30	3.77	5.15	3.71	5.53	3.75	5.76	3.92
21	5.73	4.70	5.83	4.08	5.41	3.68	5.11	3.55	5.71	3.99	6.46	3.99
22	6.44	5.25	4.74	3.68	5.13	3.78	4.83	3.53	5.67	4.38	10.78	4.55
23	6.11	4.93	5.34	3.60	5.12	3.80	5.63	3.52	5.54	4.48	8.88	4.82
24	5.21	4.05	5.72	3.79	5.37	3.73	5.56	3.88	5.65	4.22	5.96	4.03
25	5.40	3.85	5.23	3.68	5.43	3.71	5.62	4.12	5.50	3.94	5.76	4.05
26	5.89	3.76	5.80	3.71	5.50	3.81	5.61	3.96	5.59	4.12	5.81	4.23
27	5.62	3.75	5.68	3.79	5.30	3.75	6.51	3.97	6.20	4.06	5.83	4.19
28	5.97	3.69	5.65	3.71	5.39	3.94	5.27	3.79	6.81	4.12	5.66	4.05
29	6.11	3.84	5.56	3.74	5.88	4.07	5.16	3.68	7.16	4.19	5.77	4.20
30	6.28	4.15	5.78	3.97	5.51	3.85	5.20	3.66	14.89	4.81	5.61	4.05
31	---	---	11.33	4.05	---	---	5.11	3.68	15.19	5.66	---	---
MONTH	6.74	3.69	11.33	3.60	26.52	3.68	6.51	3.52	15.19	3.64	13.84	3.81

SAN JACINTO RIVER BASIN

08075730 Vince Bayou at Pasadena, TX

LOCATION.--Lat 29°41'40", long 95°12'58", Harris County, Hydrologic Unit 12040104, on right bank of concrete-lined channel at end of West Ellaine Avenue in Pasadena and 2.4 mi upstream from mouth.

DRAINAGE AREA.--8.26 mi².

PERIOD OF RECORDS.--Oct. 1971 to current year.

Water-quality records.--Chemical data: May 1971 to Sept. 1973, Oct. 1976 to July 1979. Biochemical data: May 1971 to Sept. 1973, Oct. 1976 to July 1979. Pesticide data: May 1971 to Sept. 1973, Oct. 1976 to July 1979.

GAGE.--Water-stage recorder. Datum of gage is 2.54 ft below sea level, 1973 adjustment; unadjusted for land-surface subsidence (levels by the U.S. Army Corps of Engineers). Satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.8	3.3	7.0	2.1	17	3.9	2.0	3.1	6.4	3.8	411
2	.79	2.2	2.2	1.0	1.9	54	3.4	2.1	1.1	20	12	198
3	.89	5.4	.94	1.7	1.7	73	3.8	2.0	1.0	2.3	7.9	39
4	1.2	41	.86	1.1	3.9	5.9	3.6	1.9	1.6	1.6	3.5	73
5	2.1	37	.77	.78	4.0	2.6	3.9	4.0	923	2.1	4.1	176
6	9.5	105	12	.83	4.3	3.7	4.0	6.5	236	2.7	5.3	28
7	15	6.2	2.6	31	4.1	4.0	4.4	21	44	1.9	18	3.9
8	4.8	111	1.0	4.1	4.4	86	5.1	2.3	324	2.1	15	2.3
9	1.5	5.0	1.1	2.9	3.9	52	4.6	1.4	1720	2.3	12	81
10	.97	1.2	.88	e60	1.7	3.7	5.4	1.2	33	2.9	3.9	7.5
11	1.1	.98	.86	e100	1.5	2.2	7.0	1.2	2.6	2.7	3.7	2.6
12	1.2	55	3.0	7.2	1.6	3.7	7.8	1.6	2.4	2.9	4.8	2.2
13	1.6	60	e30	5.8	1.7	1.8	5.8	1.2	2.7	3.0	4.9	2.4
14	1.7	5.1	4.8	5.0	1.6	139	4.3	1.1	2.9	2.8	4.6	2.3
15	2.3	3.3	2.9	3.6	1.5	33	3.7	.99	3.5	3.8	5.1	2.1
16	19	129	2.1	e80	12	4.8	3.6	.83	2.8	4.4	6.2	1.8
17	113	e80	1.7	e50	1.8	2.8	3.7	.64	2.5	5.0	3.7	2.5
18	9.8	e250	2.4	17	1.4	2.5	3.2	.57	2.2	16	3.3	2.0
19	2.2	e60	.95	e60	1.5	2.7	2.7	.60	2.0	4.6	3.8	1.9
20	2.8	8.6	.87	6.3	1.8	2.8	2.6	.72	1.8	5.7	4.1	1.9
21	3.2	4.1	.87	5.5	1.8	2.7	2.5	.65	2.4	7.5	7.1	25
22	32	3.5	.76	4.4	2.0	2.9	2.3	.61	3.7	5.3	9.8	229
23	5.0	2.0	.77	3.8	1.7	3.2	2.7	.53	1.8	6.4	7.7	133
24	1.0	91	26	5.4	1.8	8.7	45	.54	2.0	7.2	7.6	13
25	.72	4.2	6.5	2.6	2.0	5.9	4.3	.79	1.7	9.7	2.3	1.8
26	.66	2.2	e30	2.1	2.2	3.4	2.2	46	2.9	15	50	.94
27	.94	1.2	11	2.0	2.6	118	2.1	2.7	2.2	79	34	.97
28	1.4	3.1	1.9	2.1	4.3	331	2.0	.72	1.9	5.2	62	1.1
29	2.1	10	1.4	66	---	18	1.9	.61	17	4.4	106	.89
30	19	4.6	.87	4.6	---	6.7	1.8	.56	8.0	2.3	415	.78
31	3.3	---	1.7	2.5	---	4.2	---	132	---	2.6	613	---
TOTAL	261.36	1093.68	157.00	546.31	76.8	1001.9	153.3	239.56	3355.8	239.8	1444.2	1447.88
MEAN	8.43	36.5	5.06	17.6	2.74	32.3	5.11	7.73	112	7.74	46.6	48.3
MAX	113	250	30	100	12	331	45	132	1720	79	613	411
MIN	.59	.98	.76	.78	1.4	1.8	1.8	.53	1.0	1.6	2.3	.78
AC-FT	518	2170	311	1080	152	1990	304	475	6660	476	2860	2870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY)

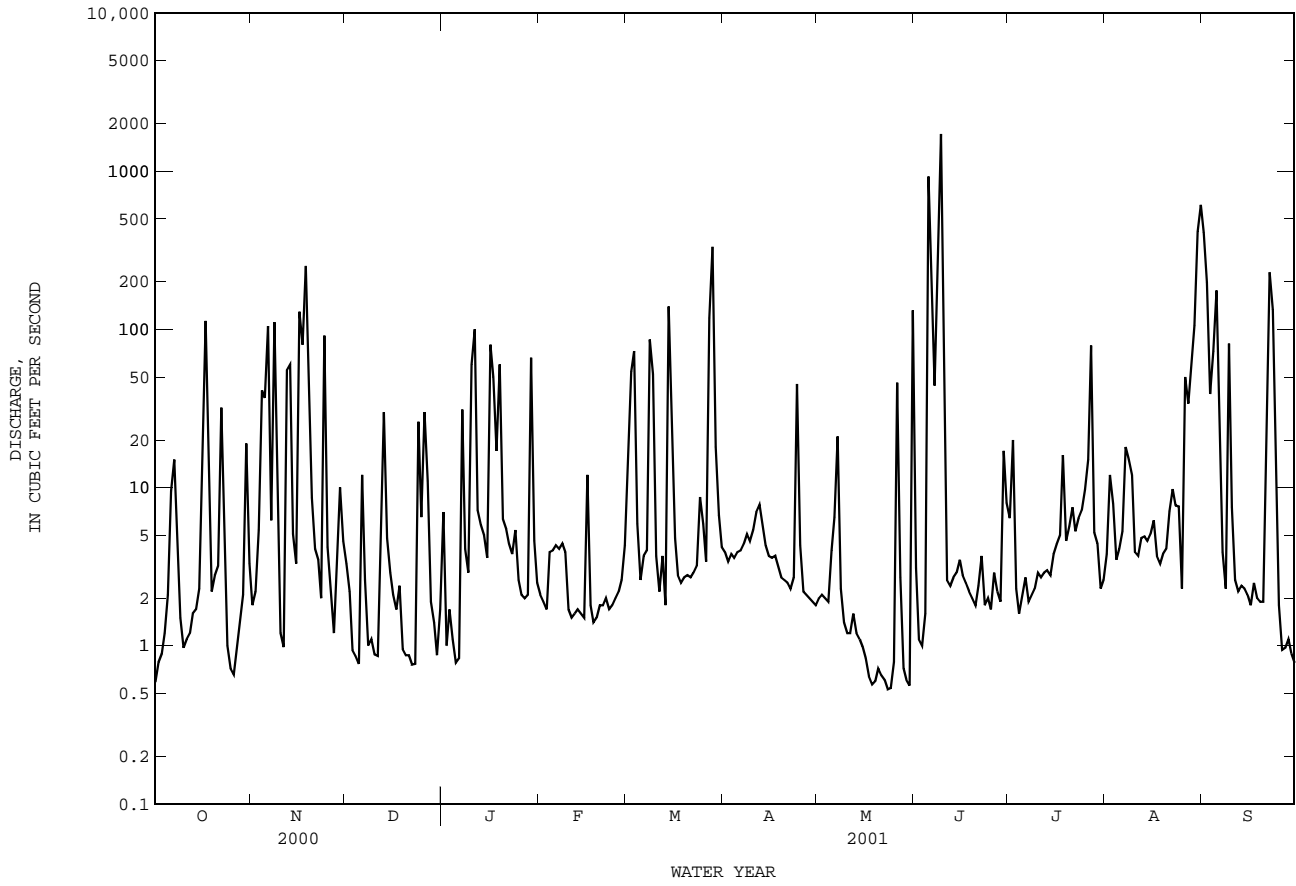
MEAN	15.1	15.6	12.8	19.0	12.8	12.2	12.7	17.9	28.7	13.4	13.2	20.1
MAX	87.4	41.1	35.0	57.7	40.3	36.8	57.6	49.8	112	87.4	78.1	113
(WY)	1995	1987	1972	1980	1992	1979	1991	1981	2001	1979	1983	1979
MIN	.64	1.71	1.49	1.82	1.67	.59	.38	.90	1.81	1.66	1.31	1.04
(WY)	1979	1981	1989	1996	1988	1996	1983	1988	1990	1982	1980	1982

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1972 - 2001

ANNUAL TOTAL	3564.76	10017.59	
ANNUAL MEAN	9.74	27.4	16.1
HIGHEST ANNUAL MEAN			32.1
LOWEST ANNUAL MEAN			4.97
HIGHEST DAILY MEAN	301	May 20	1720
LOWEST DAILY MEAN	.27	Aug 26	.53
ANNUAL SEVEN-DAY MINIMUM	.43	Aug 25	.60
MAXIMUM PEAK FLOW			6870
MAXIMUM PEAK STAGE			23.38
ANNUAL RUNOFF (AC-FT)	7070	19870	11670
10 PERCENT EXCEEDS	19	57	26
50 PERCENT EXCEEDS	1.4	3.3	2.2
90 PERCENT EXCEEDS	.59	.97	.55

e Estimated

08075730 Vince Bayou at Pasadena, TX--Continued



SAN JACINTO RIVER BASIN

08075770 Hunting Bayou at Interstate Highway 610, Houston, TX

LOCATION.--Lat 29°47'35", long 95°16'04", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of downstream service road bridge of Interstate Highway 610 in northeast Houston and 8.8 mi upstream from mouth.

DRAINAGE AREA.--16.1 mi².

PERIOD OF RECORD.--Apr. 1964 to current year. Prior to Oct. 1973, published as "at U.S. Highway 90-A, Houston".
Water-quality records.--Chemical data: Oct. 1968 to Sept. 1998. Biochemical data: Oct. 1968 to Sept. 1998. Pesticide data: Oct. 1968 to Sept. 1998.

REVISED RECORDS.--WRD TX-74-2: Drainage area, WDR TX-78-2: Drainage area, WDR TX-79-2: Drainage area, WDR TX-87-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level, 1959 adjustment; unadjusted for land-surface subsidence. Prior to Oct. 1, 1972, water-stage recorder at site 1,800 ft upstream at same datum. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. Low flow is largely maintained by wastewater and industrial effluent. The stage-discharge relation is affected by seasonal vegetal growth during most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	13	9.0	16	12	17	17	5.7	5.4	58	8.2	409
2	6.3	14	8.6	11	12	108	13	5.7	4.7	41	11	67
3	7.3	9.9	7.9	11	11	96	11	5.5	4.8	32	9.3	19
4	8.8	23	7.7	11	11	31	8.1	13	5.5	50	8.2	52
5	22	11	8.0	10	11	16	14	10	378	15	7.8	26
6	12	150	21	10	10	16	10	15	1290	13	7.5	15
7	65	17	11	11	10	11	10	93	332	10	32	11
8	28	20	8.3	10	10	39	11	21	601	9.5	26	10
9	11	11	8.1	9.5	15	80	9.0	9.6	2950	9.0	11	39
10	8.6	8.6	8.5	96	11	28	8.9	7.7	1320	8.7	8.4	17
11	7.7	7.6	9.0	171	9.6	17	9.1	13	103	8.1	7.6	10
12	8.1	44	8.8	24	10	24	9.8	13	45	7.6	7.4	12
13	7.4	73	57	16	10	14	7.4	7.0	28	7.2	7.8	11
14	6.6	10	15	22	12	104	9.1	6.3	24	7.2	6.6	9.3
15	6.3	8.0	11	14	12	99	9.0	5.8	25	7.0	6.2	9.3
16	17	168	9.2	120	12	19	15	5.6	14	6.6	6.3	9.0
17	173	87	8.4	67	11	13	17	5.5	13	7.3	7.1	8.6
18	24	352	8.9	78	11	11	7.5	5.6	13	9.8	6.3	8.5
19	9.8	129	8.5	106	11	11	7.2	5.7	10	9.9	6.3	8.5
20	7.4	31	8.5	33	10	9.4	6.7	5.6	9.8	14	6.4	9.3
21	6.5	13	8.8	19	10	8.3	6.4	5.6	20	14	6.2	25
22	20	11	8.3	16	10	7.9	6.4	5.9	18	6.9	6.2	18
23	14	13	8.2	14	10	8.6	7.1	5.0	11	6.7	6.2	70
24	7.9	303	27	18	11	8.8	13	5.8	9.0	6.2	6.4	22
25	6.7	26	28	15	14	8.1	6.2	5.2	8.9	6.3	6.7	11
26	6.1	14	44	14	11	7.7	5.8	22	70	220	30	9.9
27	6.1	11	54	13	11	270	5.7	37	45	165	36	8.7
28	6.1	10	16	13	10	1180	5.8	6.7	106	32	20	8.3
29	6.0	11	12	52	---	113	5.7	5.4	356	17	44	8.0
30	6.0	10	10	21	---	31	5.7	5.3	85	12	178	7.9
31	5.9	---	10	14	---	22	---	6.9	---	8.2	480	---
TOTAL	533.6	1609.1	468.7	1055.5	308.6	2428.8	277.6	370.1	7905.1	825.2	1017.1	949.3
MEAN	17.2	53.6	15.1	34.0	11.0	78.3	9.25	11.9	264	26.6	32.8	31.6
MAX	173	352	57	171	15	1180	17	93	2950	220	480	409
MIN	5.9	7.6	7.7	9.5	9.6	7.7	5.7	5.0	4.7	6.2	6.2	7.9
AC-FT	1060	3190	930	2090	612	4820	551	734	15680	1640	2020	1880

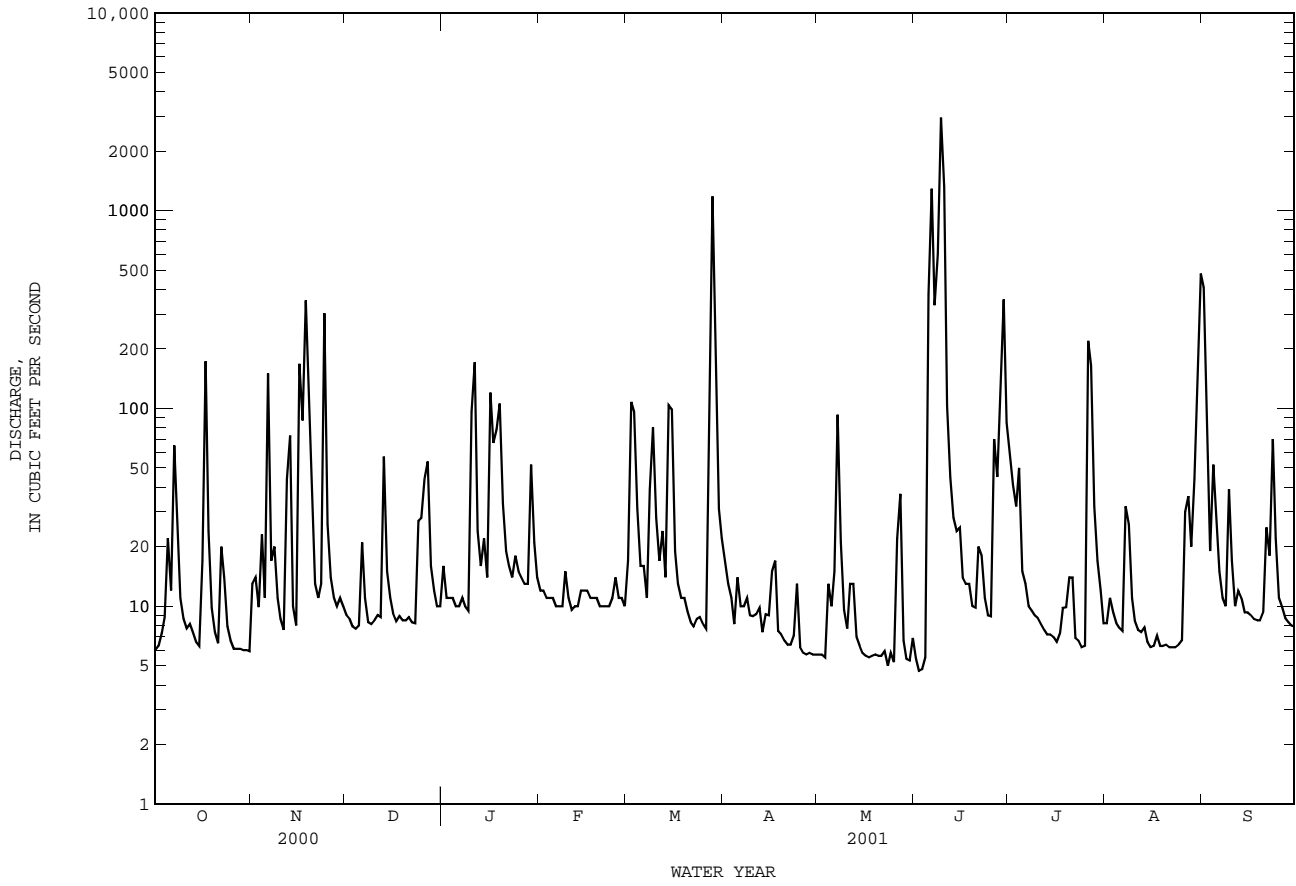
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	25.1	21.5	21.3	28.6	24.8	26.1	23.1	30.5	40.9	16.5	17.3	28.0
MEAN	25.1	21.5	21.3	28.6	24.8	26.1	23.1	30.5	40.9	16.5	17.3	28.0
MAX	154	67.9	68.0	99.4	107	113	83.0	91.1	264	83.4	121	194
(WY)	1995	1999	1987	1991	1992	1993	1979	1982	2001	1987	1983	1979
MIN	3.75	2.92	4.55	5.05	3.46	3.16	2.88	3.42	2.55	1.95	3.35	5.92
(WY)	1979	1968	1989	1996	1996	1965	1965	1996	1967	1964	1967	1982

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	7934.0	17748.7	
ANNUAL MEAN	21.7	48.6	25.5
HIGHEST ANNUAL MEAN			48.6
LOWEST ANNUAL MEAN			6.97
HIGHEST DAILY MEAN	696	May 20	2950
LOWEST DAILY MEAN	3.5	Mar 5	4.7
ANNUAL SEVEN-DAY MINIMUM	3.9	Feb 29	5.4
MAXIMUM PEAK FLOW			3230
MAXIMUM PEAK STAGE			41.97
ANNUAL RUNOFF (AC-FT)	15740	35200	18500
10 PERCENT EXCEEDS	32	75	40
50 PERCENT EXCEEDS	7.9	11	7.1
90 PERCENT EXCEEDS	4.4	6.2	3.3

08075770 Hunting Bayou at Interstate Highway 610, Houston, TX--Continued



SAN JACINTO RIVER BASIN

08075900 Greens Bayou near U.S. Highway 75 near Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°57'24", long 95°25'04", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Knobcrest Street, 600 ft downstream from Interstate Highway 45 access road bridge, 8.9 mi upstream from Greens Bayou (station 08076000), and 20.9 mi upstream from Halls Bayou.

DRAINAGE AREA.--36.6 mi².

PERIOD OF RECORD.--Aug. 1965 to Sept. 1980 (daily mean discharge). Oct. 1980 to Mar. 1981 (discharge measurements and supplemental peak discharges only). Mar. 1981 to Sept. 1992 (daily mean discharge). Oct. 1992 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WDR TX-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level; unadjusted for land-surface subsidence. Prior to July 19, 1989, water-stage recorder at site 600 ft upstream at present datum. Radio telemeter at station. Satellite telemeter at station.

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

AVERAGE DISCHARGE.--26 years (water year 1966-80, 1982-1992), 40.5 ft³/s (29,370 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, June 26, 1989, gage height, 90.20 ft, from floodmark at former site; maximum gage height, 91.09 ft, Feb. 21, 1969, at former site, occurred prior to 1980-81 channel rectification; minimum daily discharge, 0.16 ft³/s, Oct. 21, 22, 1969.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0345	2,180	77.48	June 5	2330	7,720	85.40
Nov. 24	0400	1,860	76.84	June 9	0315	12,900	90.68
Mar. 14	1830	1,840	76.79	Aug. 6	2145	5,090	82.13
Mar. 27	2130	2,820	78.67	Sept. 22	0900	4,280	80.99
May 7	0430	2,090	77.30				

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SAN JACINTO RIVER BASIN

08076000 Greens Bayou near Houston, TX

LOCATION.--Lat 29°55'05", long 95°18'24", Harris County, Hydrologic Unit 12040104, on right bank at downstream side of bridge on U.S. Highway 59 access road, 10.5 mi northeast of Houston, 12.0 mi upstream from Halls Bayou, and 23.4 mi upstream from mouth.

DRAINAGE AREA.--68.7 mi². Oct. 1952 to Sept. 30, 1973, 72.7 mi²; Oct. 1, 1973, to Sept. 30, 1988, 69.6 mi². Basin boundary changes due to relocation of drainage ditches.

PERIOD OF RECORD.--Oct. 1952 to current year.

Water-quality records.--Chemical data: Oct. 1968 to Sept. 1998. Biochemical data: Oct. 1968 to Sept. 1998. Pesticide data: Oct. 1968 to Sept. 1998.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.66 ft below sea level, 1957 adjustment; unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. Channel was rectified during water years 1974-75. Low flow is sustained by Reliant Energy/Houston Lighting and Power effluent (which is obtained from ground-water sources), and wastewater effluent from Houston suburbs. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	77	43	64	42	49	57	35	42	79	37	782
2	35	107	38	54	40	758	49	36	37	93	35	372
3	35	157	38	48	38	427	50	36	34	94	35	165
4	36	293	38	44	37	125	47	34	47	95	33	187
5	72	160	39	43	36	55	45	134	773	83	33	203
6	59	1050	95	42	35	42	42	109	5520	43	90	98
7	142	106	68	43	37	40	40	958	294	38	745	48
8	143	95	43	43	37	121	40	132	962	37	59	41
9	49	51	39	40	51	407	40	61	22300	38	40	201
10	40	39	39	96	41	70	42	163	3700	39	36	114
11	35	37	40	235	34	66	41	93	357	38	33	44
12	34	60	37	94	35	141	45	51	144	37	32	38
13	32	299	103	57	36	62	44	84	93	36	33	36
14	31	54	66	61	36	618	43	54	68	36	33	36
15	33	40	47	50	35	555	39	43	668	36	32	35
16	44	295	42	286	47	102	141	42	157	36	32	36
17	501	245	38	250	39	51	230	43	69	49	32	38
18	181	135	40	106	33	39	52	41	54	51	32	42
19	50	187	39	140	33	36	41	40	51	60	33	39
20	40	92	39	68	34	35	39	40	47	39	35	122
21	37	65	39	58	35	33	40	40	48	34	35	412
22	93	47	38	56	32	32	40	39	122	33	33	1670
23	72	43	37	52	30	32	44	38	53	34	31	433
24	42	828	153	48	32	31	101	37	44	34	31	194
25	37	122	258	47	36	32	43	38	43	35	30	81
26	34	57	79	67	35	31	39	179	94	233	160	49
27	35	47	88	65	31	284	36	149	66	133	164	41
28	35	45	55	49	62	1110	35	45	131	118	114	36
29	229	69	46	394	---	292	34	41	154	51	84	32
30	156	55	42	101	---	141	36	38	145	38	402	33
31	46	---	43	54	---	77	---	44	---	36	940	---
TOTAL	2442	4957	1849	2855	1049	5894	1615	2917	36317	1836	3494	5658
MEAN	78.8	165	59.6	92.1	37.5	190	53.8	94.1	1211	59.2	113	189
MAX	501	1050	258	394	62	1110	230	958	22300	233	940	1670
MIN	31	37	37	40	30	31	34	34	34	33	30	32
AC-FT	4840	9830	3670	5660	2080	11690	3200	5790	72030	3640	6930	11220

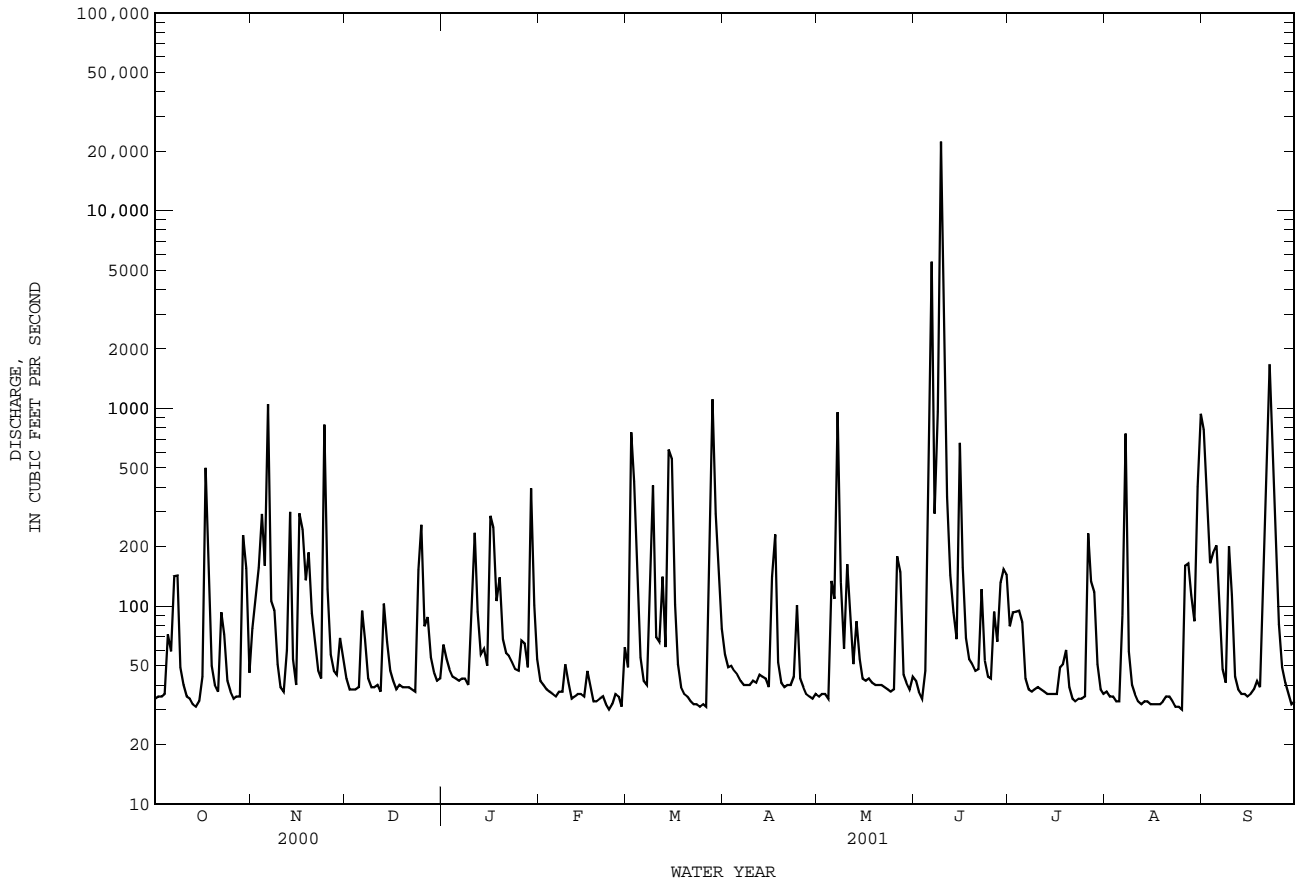
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

	72.6	73.4	72.7	79.9	91.0	73.3	81.1	116	123	54.4	49.6	81.0
MEAN	72.6	73.4	72.7	79.9	91.0	73.3	81.1	116	123	54.4	49.6	81.0
MAX	353	338	293	284	353	374	328	480	1211	291	330	443
(WY)	1985	1975	1992	1991	1961	1997	1973	1989	2001	1961	1983	1961
MIN	.000	.000	.000	.058	.35	.045	.13	.25	.12	.45	.81	1.97
(WY)	1953	1956	1955	1957	1957	1955	1956	1956	1954	1957	1957	1956

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1953 - 2001	
ANNUAL TOTAL	31939		70883			
ANNUAL MEAN	87.3		194		80.5	
HIGHEST ANNUAL MEAN					194	
LOWEST ANNUAL MEAN					6.82	
HIGHEST DAILY MEAN	3210		22300		22300	
LOWEST DAILY MEAN	20		30		.00	
ANNUAL SEVEN-DAY MINIMUM	22		32		.00	
MAXIMUM PEAK FLOW			26500		26500	
MAXIMUM PEAK STAGE			67.81		67.81	
ANNUAL RUNOFF (AC-FT)	63350		140600		58290	
10 PERCENT EXCEEDS	143		239		141	
50 PERCENT EXCEEDS	35		45		25	
90 PERCENT EXCEEDS	24		34		2.4	

08076000 Greens Bayou near Houston, TX--Continued



SAN JACINTO RIVER BASIN

08076180 Garners Bayou near Humble, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°56'03", long 95°14'02", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of upstream bridge on Beltway 8, 0.2 mi downstream from Williams Gully, 1.2 mi upstream from Greens Bayou, and 4.5 mi southeast of Humble.

DRAINAGE AREA.--31.0 mi².

PERIOD OF RECORD.--Feb. 1986 to Sept. 1993 (daily mean discharge). Oct. 1993 to current year (peaks above base discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level, 1978 adjustment, levels furnished by Harris County Flood Control District. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Low flow is sustained by wastewater effluent. Minor channel rectification made in 1988.

AVERAGE DISCHARGE.--7 YEARS (water years 1987-93), 57.6 ft³/s (41,690 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft³/s June 9, 2001 (elevation 59.41 ft, affected by backwater from Greens Bayou); minimum daily, 3.0 ft³/s Sept. 28, 29, and Oct. 1, 1990.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	0315	1,420	47.82	June 9	0600	12,400	59.41
June 6	0230	5,180	55.23	Sept. 23	1400	1,320	47.37

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SAN JACINTO RIVER BASIN

08076500 Halls Bayou at Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°51'42", long 95°20'05", Harris County, Hydrologic Unit 12040104, on right bank, at downstream side of bridge on Jensen Drive in northeast section of Houston, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--28.7 mi². Prior to Oct. 1, 1973, 24.7 mi². Oct. 1, 1973, to Sept. 30, 1977, 28.3 mi². Oct. 1, 1977 to Sept. 30, 1988, 27.6 mi². Changes were the result of drainage ditch extensions or relocations.

PERIOD OF RECORD.--Oct. 1952 to Sept. 1993 (daily mean discharge), Oct. 1993 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: Oct. 1968 to Sept. 1984. Biochemical data: Oct. 1968 to Sept. 1984. Pesticide data: Oct. 1968 to Sept. 1984.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.66 ft below sea level, 1957 adjustment; records unadjusted for land-surface subsidence. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Stage-discharge relation is affected by seasonal vegetal growth during most years. Low flow is sustained wastewater effluent.

AVERAGE DISCHARGE.--41 YEARS (water years 1953-93), 31.5 ft³/s (22,820 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,320 ft³/s June 9, 2001 (gage-height, 64.89 ft, from floodmark); no flow at times prior to 1956.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	0215	2,330	57.46	June 9	Unknown	7,320	64.89
June 6	0145	4,220	61.70				

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SAN JACINTO RIVER BASIN

08076700 Greens Bayou at Ley Road, Houston, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°50'13", long 95°13'59", Harris County, Hydrologic Unit 12040104, on right bank at downstream side of bridge on Ley Road in northeast Houston and 300 ft downstream from mouth of Halls Bayou.

DRAINAGE AREA.--182 mi².

PERIOD OF RECORD.--Nov. 1962 to Dec. 1964, May 1971 to Sept. 1971 (discharge measurements only), Oct. 1971 to Sept. 1991, Aug. 1992 to current year (high-water records only).

Water-quality records.--Chemical data: Oct. 1970 to Sept. 1981. Biochemical data: Oct. 1970 to Sept. 1981. Pesticide data: Oct. 1970 to Sept. 1981.

GAGE.--Water-stage recorder. Datum of gage is 2.13 ft below sea level, 1973 adjustment. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge is computed for all storms that produce peak discharges above 2,000 ft³/s. Gage was discontinued on Sept. 12, 1991, for bridge construction and temporarily relocated about 1 mile downstream at US Highway 90 to obtain stage data for the Harris County Flood Control District. Gage was moved back to Ley Road on Aug. 12, 1992, at current datum. No known regulation or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,700 ft³/s, from indirect measurement of peak flow, June 9, 2001, gage height, 44.02 ft, from floodmark; minimum not determined (affected by tide).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 15	0245	4,370	18.89	June 6	0845	17,400	34.54
Mar. 28	0645	10,800	28.91	June 9	1800	i69,700	a44.02

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	2360
2	---	---	---	---	---	1260	---	---	---	---	---	1520
3	---	---	---	---	---	1150	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	1110	---	---	---
6	---	---	---	---	---	---	---	---	13500	---	---	---
7	---	---	---	---	---	---	---	1320	2540	---	1370	---
8	---	---	---	---	---	---	---	---	2380	---	---	---
9	---	---	---	---	---	1280	---	---	e59300	---	---	---
10	---	---	---	478	---	---	---	---	e41100	---	---	---
11	---	---	---	2070	---	---	---	---	e4240	---	---	---
12	---	---	---	---	---	---	---	---	702	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	891	---	---	---	---	---	---
15	---	---	---	---	---	2320	---	---	1220	---	---	---
16	---	---	---	---	---	---	---	---	636	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	2160	---	---	---	---	---	---	---	---	---	---
19	---	1840	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	739
22	---	---	---	---	---	---	---	---	---	---	---	2370
23	---	---	---	---	---	---	---	---	---	---	---	1870
24	---	2120	---	---	---	---	---	---	---	---	---	900
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	1020	---	---	---	---	---	---
28	---	---	---	---	---	7900	---	---	---	---	---	---
29	---	---	---	---	---	1420	---	---	---	---	---	---
30	---	---	---	---	---	527	---	---	---	---	1080	---
31	---	---	---	---	---	---	---	---	---	---	2820	---

a From floodmark.
i From indirect measurement of peak flow.
e Estimated

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CLEAR CREEK BASIN

08077600 Clear Creek near Friendswood, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°31'02", long 95°10'42", Harris-Galveston County line, Hydrologic Unit 12040204, on right bank at right downstream side of bridge on Farm Road 528 near Friendswood.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--Oct. 1965 to July 1994 (annual maximum), Oct. 1997 to current year (discharges greater than base discharge).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s, June 9, 2001, gage height, 20.43 ft; maximum gage height, 20.85 ft, Aug. 1, 1989.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	2115	3,670	7.61	June 6	0515	9,660	15.75
Jan. 16	1845	2,710	6.28	June 9	1830	16,900	20.43
Mar. 28	1245	3,200	6.93	Aug. 31	1745	7,000	12.87

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08077650 Moses Lake-Galveston Bay near Texas City, TX

LOCATION.--Lat 29°26'50", long 94°55'12", Galveston County, Hydrologic Unit 12040204, on right side of gate abutment of Texas City Flood Control Dike, at mouth of Moses Lake, and 4.5 mi north of Texas City.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--May 1967 to current year (maximum and minimum elevations for Galveston Bay and maximum elevation for Moses Lake).

GAGE.--Water-stage recorders. Datum of gage is sea level (levels by Galveston County engineer), 1978 adjustment. Prior to May 19, 1983, datum of gage was 0.49 ft below sea level, 1973 adjustment. Prior records unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records good. Moses Lake is connected to Galveston Bay by gated opening through levee. The gate is open during periods of normal tide and is closed during periods of high tide and hurricane surge. One orifice line is located in Moses Lake and one orifice line is located in Galveston Bay.

EXTREMES FOR PERIOD OF RECORD (MOSES LAKE).--Maximum elevation, 4.8 ft Sept. 11, 1998; minimum, -4.2 ft Feb. 28, 1983.

EXTREMES FOR PERIOD OF RECORD (GALVESTON BAY).--Maximum elevation, about 10.0 ft from Hurricane Alicia Aug. 18, 1983; minimum, about -4.2 ft Feb. 28, 1983.

EXTREMES FOR CURRENT YEAR (MOSES LAKE).--Maximum elevation, 2.6 ft Mar. 28; minimum elevation -1.8 ft Dec. 19.

EXTREMES FOR CURRENT YEAR (GALVESTON BAY).--Maximum elevation, 3.6 ft June 5; minimum elevation -2.0 ft Jan. 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MOSES LAKE MAX	GALV. BAY MAX	GALV. BAY MIN	MOSES LAKE MAX	GALV. BAY MAX	GALV. BAY MIN	MOSES LAKE MAX	GALV. BAY MAX	GALV. BAY MIN	MOSES LAKE MAX	GALV. BAY MAX	GALV. BAY MIN
1	1.6	1.5	.4	2.0	2.1	.7	1.6	1.6	.2	1.0	1.0	-.5
2	1.7	1.6	.3	2.0	2.1	.5	.9	1.0	-.8	.6	.6	-.4
3	1.7	1.6	.2	1.8	1.8	.6	.5	.5	-.2	.3	.3	-.5
4	1.8	1.8	.5	1.7	1.8	.4	.9	.9	-.1	.1	.2	-.9
5	1.0	1.9	.4	1.4	1.5	.5	.8	.8	.1	.2	.2	-.9
6	1.7	1.7	.0	1.9	2.3	.6	1.1	1.2	-.3	.3	.5	-1.1
7	1.3	1.3	-.1	1.5	1.5	.7	.8	.9	-.3	.6	.5	-.8
8	1.0	.9	-.6	2.1	2.2	.1	1.0	1.0	.0	.5	.3	-1.6
9	1.5	1.5	-.1	.6	.3	-.8	1.0	1.1	-.5	.4	.5	-1.4
10	1.5	1.5	.8	1.3	1.4	.2	1.2	1.3	-.3	1.7	2.0	.1
11	1.3	1.3	.7	1.8	2.0	.4	1.3	1.4	-.3	1.9	2.0	-.7
12	1.0	1.1	.5	2.0	2.4	.7	1.1	1.1	-1.1	.6	.5	-1.5
13	1.2	1.3	.5	2.3	2.5	-.3	1.7	1.8	.4	1.0	1.1	.1
14	1.3	1.4	.6	.9	.8	-.9	1.4	1.4	-.7	1.3	1.2	-.3
15	1.5	1.4	.3	1.2	1.7	.2	1.4	1.4	.2	.5	.5	-.1
16	1.5	1.5	.1	2.1	2.1	.1	1.3	1.4	-1.1	1.7	1.6	.4
17	1.4	1.6	.1	1.3	1.3	-.2	-.7	-.3	-1.2	1.7	1.6	.6
18	1.3	1.3	-.3	2.2	2.1	1.0	.7	.7	-.9	.9	.7	-.3
19	1.3	1.4	-.2	1.9	2.0	.2	-.5	-.9	-1.9	.6	.3	-1.4
20	1.2	1.3	-.1	1.2	1.3	.2	.7	.8	-1.2	-.3	-.2	-2.0
21	1.2	1.3	.3	.9	1.0	.3	.8	.8	-.5	.4	.4	-.9
22	1.8	1.9	.8	.9	.9	.0	.8	1.1	-.5	.4	.3	-1.2
23	1.8	1.8	1.0	1.3	1.5	.2	1.2	1.3	.1	.4	.3	-1.3
24	1.9	2.0	1.1	1.9	2.0	-.6	1.5	1.4	.1	.5	.4	-.9
25	1.9	2.0	1.2	-.1	.2	-1.5	1.7	1.9	.4	.4	.4	-1.4
26	1.8	1.8	1.1	.3	.6	-.8	2.1	2.1	.7	.6	.6	-.8
27	1.7	1.7	.7	.6	.9	-.7	1.6	1.5	-.8	.5	.6	-.7
28	1.5	1.7	.4	1.0	1.1	-.5	.1	.1	-1.8	1.0	.9	-.2
29	1.9	1.9	.5	1.1	1.1	-.2	-.3	-.3	-1.3	.9	1.0	-.4
30	1.7	1.8	.3	1.2	1.2	.2	-.3	-.1	-1.4	.6	.6	-.2
31	1.7	1.8	.5	---	---	---	.6	.9	-.3	.6	.5	-.2
MONTH	1.9	2.0	-.6	2.3	2.5	-1.5	2.1	2.1	-1.9	1.9	2.0	-2.0

08077650 Moses Lake-Galveston Bay near Texas City, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY
	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	1.0	.8	-.5	.7	.8	-.4	1.1	1.3	-.3	1.8	1.9	.4
2	.8	.6	-.5	.9	1.0	-.3	1.4	1.6	.0	1.8	2.0	.8
3	.6	.5	-.8	.8	1.0	-.1	1.4	1.5	.1	1.9	1.9	1.2
4	.6	.4	-1.0	.3	.0	-1.4	1.2	1.3	-.1	1.8	1.9	1.3
5	.4	.2	-1.3	-.1	.1	-1.8	1.3	1.4	.3	2.0	2.2	.9
6	.4	.6	-1.1	.3	.6	-1.2	1.4	1.5	.8	2.0	2.2	.8
7	.7	.9	-.7	.4	.7	-1.1	1.7	1.9	.8	1.6	1.7	.6
8	1.1	1.1	-.4	1.0	1.4	-.2	1.4	1.5	.8	1.3	1.5	.1
9	1.2	1.2	-.5	1.1	1.2	-.8	1.5	1.6	.6	1.3	1.4	-.1
10	.0	.2	-1.2	1.1	1.4	.0	1.7	1.9	.4	1.5	1.6	-.1
11	.6	.7	.0	1.7	1.8	.9	2.1	2.3	.7	1.5	1.6	.4
12	.9	1.0	.5	1.3	1.5	.7	1.6	1.7	.4	1.3	1.4	.2
13	.6	.7	.1	---	.9	.0	1.3	1.5	.2	1.2	1.3	.0
14	.6	.8	-.1	1.9	2.1	---	1.3	1.5	-.2	1.0	1.2	-.1
15	.9	1.0	-.1	1.4	1.4	.1	1.1	1.3	.0	.9	1.0	.1
16	.8	.8	-1.0	.5	.6	-.9	1.2	1.4	.0	.9	1.0	.1
17	-.1	.3	-1.7	1.6	1.8	-.2	1.1	1.1	.3	1.0	1.1	.4
18	.6	.8	-.6	1.7	1.7	.4	1.5	1.6	.6	1.1	1.2	.7
19	1.1	1.3	-.2	1.4	1.3	-.2	1.4	1.5	.7	.9	1.0	.2
20	1.2	1.3	-.3	.1	.1	-1.3	1.5	1.7	.6	.9	1.0	.2
21	.6	.8	-.4	.2	.4	-.8	1.4	1.5	1.0	1.0	1.2	.3
22	.7	.9	-.5	.3	.4	-.8	1.8	2.0	1.2	.6	.6	-.1
23	1.4	1.7	.4	.4	.6	-.4	1.9	2.0	.9	.9	1.1	-.3
24	1.9	2.2	1.0	.8	.8	.2	1.4	1.5	.0	1.0	1.3	-.3
25	1.4	1.5	.0	.6	.7	-.3	1.1	1.3	-.1	1.0	1.1	-.6
26	1.0	1.1	.4	1.0	1.1	.3	1.5	1.6	.1	1.1	1.4	-.6
27	.9	1.0	.5	1.7	1.7	.7	1.3	1.4	.1	1.1	1.2	-.4
28	.9	1.0	.1	2.6	2.6	1.4	1.5	1.7	-.1	1.1	1.4	-.3
29	---	---	---	2.0	2.1	.9	1.6	1.8	.2	1.0	1.1	-.2
30	---	---	---	1.3	1.5	.4	1.7	1.8	.6	1.1	1.1	.3
31	---	---	---	1.2	1.3	.1	---	---	---	.9	1.1	.2
MONTH	1.9	2.2	-1.7	---	2.6	---	2.1	2.3	-.3	2.0	2.2	-.6
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY
	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	.6	.6	-.2	1.2	1.3	-.1	.9	1.0	-.4	1.8	1.9	.3
2	.7	.8	-.3	1.5	1.6	.0	.8	1.5	-.5	1.4	1.5	.2
3	.8	1.0	-.3	1.5	1.5	-.1	.8	1.7	.2	1.2	1.3	.1
4	1.6	1.8	.1	1.4	1.4	-.1	1.7	1.7	.5	1.1	1.2	.2
5	2.4	3.6	.4	1.2	1.3	-.1	1.6	1.7	.6	1.2	1.2	.2
6	2.5	2.5	-.1	1.1	1.1	-.3	1.7	1.9	.3	1.1	1.3	.6
7	1.0	1.7	-.3	1.1	1.1	-.4	1.6	1.7	.7	1.3	1.3	.6
8	1.5	1.6	-.2	1.0	1.1	-.4	1.3	1.4	.6	1.6	1.6	.2
9	---	2.4	.6	.8	.9	-.3	1.3	1.4	.9	2.0	2.2	.3
10	---	1.8	.9	.6	.6	-.5	1.1	1.2	.4	1.5	1.6	.3
11	---	1.3	.3	.4	.5	-.2	.9	1.0	-.2	1.5	1.5	.0
12	---	1.2	-.2	.5	.6	-.1	.9	.9	-.4	1.3	1.4	.0
13	1.5	1.5	.6	.3	.4	-.4	.8	.8	-.8	1.9	2.0	.5
14	1.9	2.0	.9	.3	.4	-.5	.7	.7	-.7	2.2	2.3	.7
15	1.7	2.1	.5	.7	.8	-.3	.9	1.1	-.6	2.0	2.1	.9
16	1.0	1.0	.1	1.1	1.1	-.2	1.1	1.2	-.5	1.9	1.9	.8
17	.8	.8	-.1	1.4	1.4	.0	1.1	1.2	-.4	1.5	1.5	.7
18	1.0	1.1	-.4	1.3	1.4	-.3	1.2	1.3	-.4	1.7	1.8	.6
19	1.1	1.2	-.5	1.3	1.4	-.4	1.4	1.6	-.3	1.7	1.7	.7
20	1.1	1.2	-.6	1.0	1.1	-.5	1.2	1.2	-.1	1.2	1.3	.1
21	1.1	1.1	-.6	.9	1.0	-.8	.9	1.4	.3	1.5	1.5	.0
22	.8	.9	-.8	.9	.9	-.6	1.2	1.3	.7	1.7	1.8	.4
23	1.1	1.1	-.7	1.4	1.5	-.4	1.2	1.3	.5	1.9	2.1	.6
24	1.1	1.2	-.5	1.5	1.5	.4	1.4	1.4	.1	1.8	1.8	.1
25	1.3	1.4	-.2	1.4	1.4	.6	1.4	1.4	.0	1.8	1.9	.6
26	1.2	1.2	.1	1.1	1.1	.3	1.4	1.4	.0	1.7	1.8	.6
27	.8	.9	-.3	1.5	1.5	.2	1.3	1.4	-.1	1.8	1.8	.4
28	1.0	1.0	.2	1.4	1.4	.0	1.5	1.6	-.2	1.7	1.6	.5
29	1.1	1.1	.3	1.2	1.2	-.4	1.8	1.9	-.1	1.6	1.6	.6
30	1.2	1.3	.0	1.0	1.1	-.2	2.0	2.1	.4	1.6	1.6	.3
31	---	---	---	1.0	1.1	-.4	2.1	1.9	.3	---	---	---
MONTH	---	3.6	-.8	1.5	1.6	-.8	2.1	2.1	-.8	2.2	2.3	.0

HIGHLAND BAYOU MAIN STEM

08077690 Highland Bayou Diversion Channel near Hitchcock, TX

LOCATION.--Lat 29°21'36", long 95°02'22", Galveston County, Hydrologic Unit 12040204, on center of earthen dam approximately .6 mi upstream from FM 2004 and 0.5 mi east of Hitchcock.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--Mar. 1997 to current year (daily maximum elevation).

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.84 ft on June 9, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 8.84 ft on June 9.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.98	2.70	2.05	1.23	1.43	1.28	1.78	2.41	1.24	1.78	1.38	4.71
2	2.10	2.57	1.35	1.02	1.20	1.49	2.10	2.50	1.36	2.18	1.78	2.64
3	2.11	2.39	1.10	.93	1.08	1.43	2.10	2.56	1.72	2.09	2.16	2.75
4	2.28	2.33	1.32	.51	1.00	.83	1.86	2.65	2.17	1.94	2.32	2.27
5	2.28	2.12	1.23	.51	.77	.61	1.98	2.63	6.60	1.88	2.22	1.75
6	2.16	2.88	1.32	.72	1.05	.92	2.15	2.62	4.14	1.69	2.18	1.63
7	1.85	2.14	1.26	.94	1.45	1.05	2.27	2.35	1.89	1.83	2.21	1.89
8	1.60	2.77	1.39	.83	1.69	1.60	2.09	1.98	2.18	1.60	1.88	2.04
9	2.15	1.14	1.47	.91	1.76	1.67	2.16	1.96	8.84	1.43	1.83	2.71
10	2.25	1.87	1.65	2.75	.89	1.79	2.35	2.18	3.14	1.16	1.68	2.21
11	1.96	2.52	1.75	2.72	1.33	2.30	2.66	2.14	2.06	1.04	1.38	2.11
12	1.69	3.00	1.77	1.02	1.55	1.95	2.12	1.99	1.81	1.08	1.20	1.87
13	1.85	3.05	2.36	1.69	1.31	1.39	2.02	1.86	2.01	1.01	1.22	2.43
14	2.02	1.66	2.03	1.72	1.28	2.66	1.91	1.57	2.37	.93	1.47	2.74
15	2.00	2.37	1.91	1.13	1.56	2.19	1.80	1.62	2.06	1.42	1.51	2.69
16	2.03	2.74	1.83	3.32	1.52	1.18	1.78	1.46	1.62	1.57	1.57	2.47
17	2.04	1.99	.28	2.49	.83	2.30	1.68	1.63	1.29	1.94	1.70	2.07
18	1.87	3.48	.98	1.59	1.28	2.29	2.19	1.77	1.53	1.85	1.83	2.36
19	1.91	3.32	.25	1.43	1.72	1.94	2.12	1.48	1.60	1.85	1.83	2.09
20	1.73	1.92	.96	1.00	1.73	.77	2.12	1.49	1.59	1.61	1.86	1.68
21	1.87	1.54	1.23	.85	1.23	.85	2.04	1.88	1.75	1.60	1.90	2.00
22	2.48	1.56	1.55	.89	1.26	.87	2.43	1.46	1.46	1.53	1.74	2.29
23	2.55	2.23	1.73	.82	2.27	1.03	2.41	1.64	1.63	2.00	1.81	2.46
24	2.64	2.69	1.84	.96	3.02	1.33	1.82	1.79	1.79	2.10	1.85	2.24
25	2.54	1.31	2.38	.86	1.81	1.26	1.88	1.64	1.87	1.93	1.84	2.28
26	2.48	1.17	2.55	1.12	1.70	1.74	2.17	1.82	1.76	1.82	1.82	2.31
27	2.27	1.39	1.98	1.22	1.59	2.31	2.02	1.77	1.47	2.09	1.69	2.23
28	2.32	1.57	.69	1.55	1.42	3.22	2.21	1.76	1.51	1.83	2.88	2.17
29	2.54	1.65	.55	1.64	---	2.64	2.28	1.64	1.73	1.69	2.51	2.12
30	2.29	1.82	.47	1.00	---	1.94	2.40	1.67	1.85	1.56	7.03	2.11
31	2.33	---	1.21	1.04	---	1.84	---	1.59	---	1.50	7.48	---
MAX	2.64	3.48	2.55	3.32	3.02	3.22	2.66	2.65	8.84	2.18	7.48	4.71

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HIGHLAND BAYOU MAIN STEM

08077695 Highland Bayou near Hitchcock, TX

LOCATION.--Lat 29°21'36", long 95°02'22", Galveston County, Hydrologic Unit 12040204, on center of earthen dam approximately 3000 ft upstream from FM 2004 and 0.5 mi east of Hitchcock.

DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--Mar. 1997 to current year (daily maximum).

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

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.61 ft on Sept. 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.80 ft on June 9 (from peak mark).

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.00	2.71	2.05	1.26	1.46	1.30	1.74	2.44	1.26	1.77	1.36	3.21
2	2.14	2.58	1.37	1.05	1.23	1.51	2.09	2.56	1.38	2.15	1.77	2.46
3	2.14	2.38	1.11	.96	1.10	1.44	2.10	2.59	1.76	2.05	2.13	2.37
4	2.31	2.36	1.32	.54	1.03	.85	1.87	2.65	2.27	1.93	2.29	2.02
5	2.31	2.05	1.24	.55	.81	.62	1.97	2.68	---	1.84	2.16	1.73
6	2.20	2.77	1.34	.76	1.09	.93	2.17	2.62	---	1.68	2.18	1.61
7	1.86	2.06	1.28	.98	1.49	1.06	2.29	2.30	1.99	1.79	2.17	1.87
8	1.59	2.78	1.41	.86	1.74	1.61	2.10	1.97	2.21	1.60	1.85	2.03
9	2.12	---	1.50	.95	1.78	1.68	2.17	1.97	a6.80	1.41	1.81	2.70
10	2.26	---	1.67	2.51	.91	1.78	2.33	2.19	2.83	1.14	1.67	2.05
11	1.96	---	1.78	2.71	1.35	2.28	2.67	2.14	2.03	1.02	1.37	2.10
12	1.69	---	1.75	1.05	1.58	1.93	2.19	1.94	1.78	1.06	1.19	1.83
13	1.87	---	2.35	1.71	1.34	1.39	1.98	1.86	1.98	.99	1.20	2.42
14	2.02	---	2.00	1.75	1.31	2.44	1.89	1.56	2.33	.91	1.47	2.72
15	2.01	2.22	1.89	1.17	1.59	2.15	1.77	1.59	2.06	1.41	1.50	2.68
16	2.06	3.02	1.83	3.35	1.56	1.18	1.76	1.43	1.59	1.56	1.57	2.47
17	2.05	1.99	.30	2.33	.83	2.27	1.68	1.62	1.27	1.92	1.70	2.07
18	1.89	3.27	1.02	1.62	1.30	2.27	2.18	1.73	1.52	1.84	1.84	2.34
19	1.93	2.94	.28	1.48	1.73	1.92	2.15	1.49	1.59	1.84	1.81	2.10
20	1.73	1.90	.98	1.04	1.75	.76	2.19	1.48	1.57	1.61	1.85	1.68
21	1.89	1.55	1.26	.89	1.25	.84	2.08	1.85	1.68	1.59	1.90	1.96
22	2.49	1.56	1.56	.93	1.28	.86	2.50	1.45	1.45	1.53	1.73	2.63
23	2.54	2.27	1.74	.85	2.25	1.02	2.47	1.62	1.62	1.96	1.78	2.51
24	2.63	2.61	1.85	1.00	2.82	1.32	1.86	1.78	1.78	2.09	1.83	2.19
25	2.56	1.33	2.31	.90	1.82	1.26	1.90	1.63	1.86	1.94	1.83	2.23
26	2.49	1.19	2.57	1.16	1.70	1.73	2.16	1.82	1.75	1.78	1.82	2.27
27	2.28	1.41	2.02	1.25	1.60	2.28	2.05	1.78	1.46	2.00	1.68	2.21
28	2.32	1.59	.72	1.60	1.44	3.17	2.20	1.78	1.51	1.83	3.03	2.14
29	2.53	1.67	.58	1.66	---	2.63	2.28	1.68	1.72	1.68	2.56	2.09
30	2.31	1.79	.50	1.04	---	1.89	2.41	1.72	1.83	1.54	6.61	2.08
31	2.31	---	1.24	1.07	---	1.81	---	1.65	---	1.47	6.50	---
MAX	2.63	3.27	2.57	3.35	2.82	3.17	2.67	2.68	6.80	2.15	6.61	3.21

a From floodmark.

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08077740 LaMarque Levee Pump Station near LaMarque, TX

LOCATION.--Lat 29°20'44", long 94°57'47", Galveston County, Hydrologic Unit 12040204, in the LaMarque Levee Pump Station on the LaMarque hurricane protection levee, one orifice located landward and one seaward, 0.5 mi southwest of Interstate Highway 45, 0.9 mi south of LaMarque, and 4.8 mi northwest of Virginia Point.

Supplementary gage (station 08077752): Lat 29°20'26", long 94°57'00", in LaMarque Levee Gravity Drain 4,000 ft southeast along LaMarque Levee from LaMarque Levee Pump Station.

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

GAGE.--Water-stage recorders. Datum of gages are sea level (levels by Galveston County Engineer). Radio telemeter at station. Telephone telemeter at station.

Supplementary gage: Radio telemeter at station.

REMARKS.--Records fair. Landward orifice records elevation of flood runoff behind levee. This runoff is pumped into Jones Bay. Only maximum landward elevations equal or exceeding, -3.0 ft are shown. Seaward records are tidal but influenced by runoff in Highland Bayou.

Supplementary gage: Records fair. Landward orifice records elevation of flood runoff behind levee. Seaward records are equivalent to seaward records at primary station. A channel connects site to pumping station. Water will be pumped, or drained by gravity, into Jones Bay depending on elevation of seaward water-surface. Only elevations equal or exceeding -2.0 ft are shown.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation (landward) 3.5 ft July 26, 1989; maximum elevation (seaward) 6.5 ft Sept. 11, 1998; minimum (seaward), -2.0 ft Apr. 11, 1988.

Supplementary gage: Maximum elevation (landward) 11.0 ft June 7, 1992; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (landward) 2.5 ft June 9; maximum elevation (seaward) 3.7 ft June 5; minimum (seaward), -1.2 ft Dec. 19, 20, 28, Jan. 20, Feb. 17.

Supplementary gage: Maximum elevation (landward) 2.4 ft June 9; minimum not determined.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER				NOVEMBER				DECEMBER			
	LAND- WARD MAX	SEA- WARD MAX	SEA- WARD MIN	SUPPLE- MENTARY MAX	LAND- WARD MAX	SEA- WARD MAX	SEA- WARD MIN	SUPPLE- MENTARY MAX	LAND- WARD MAX	SEA- WARD MAX	SEA- WARD MIN	SUPPLE- MENTARY MAX
1	---	1.3	.6	---	---	2.1	1.2	---	---	1.4	.2	---
2	---	1.5	.6	---	---	2.0	.8	---	---	.6	-.6	---
3	---	1.5	.5	---	---	1.8	1.0	---	---	.4	-.1	---
4	---	1.6	.7	---	---	1.8	.7	---	---	.7	.0	---
5	---	1.6	.6	---	---	1.5	1.0	---	---	.6	.2	---
6	---	1.5	.2	---	-3.0	2.0	.9	---	---	.8	-.1	---
7	---	1.1	.1	---	---	1.5	.9	---	---	.6	-.3	---
8	---	.7	.1	---	---	2.2	.7	---	---	.8	.0	---
9	---	1.4	.1	---	---	.7	-.4	---	---	.9	-.1	---
10	---	1.6	.8	---	---	1.3	---	---	---	1.1	.1	---
11	---	1.3	.8	---	---	1.9	.8	---	---	1.2	.2	---
12	---	1.0	.6	---	---	2.4	1.1	---	---	.9	-.5	---
13	---	1.2	.6	---	---	2.4	.2	---	---	1.7	.7	---
14	---	1.4	.6	---	---	.9	-.2	---	---	1.4	-.1	---
15	---	1.3	.5	---	---	1.6	.5	---	---	1.3	.4	---
16	---	1.4	.5	---	-1.3	2.0	.7	---	---	1.2	-.8	---
17	---	1.3	.4	---	-2.0	1.2	.3	---	---	-.6	-1.0	---
18	---	1.2	.1	---	-.6	2.1	1.1	-1.3	---	.4	-.7	---
19	---	1.2	.2	---	---	2.2	.6	---	---	-.6	-1.2	---
20	---	1.1	.1	---	---	1.3	.4	---	---	.4	-1.2	---
21	---	1.2	.4	---	---	.9	.4	---	---	.6	-.5	---
22	---	1.7	.8	---	---	.9	.3	---	---	.9	-.2	---
23	---	1.8	1.0	---	---	1.6	.4	---	---	1.1	.3	---
24	---	1.9	1.2	---	---	1.8	.0	---	---	1.2	.2	---
25	---	1.9	1.4	---	---	.0	-.9	---	---	1.7	.5	---
26	---	1.8	1.2	---	---	.5	-.5	---	---	1.9	.9	---
27	---	1.6	.9	---	---	.8	-.2	---	---	1.4	-.4	---
28	---	1.8	.8	---	---	1.0	.0	---	---	-.1	-1.2	---
29	---	1.9	1.0	---	---	1.0	-.2	---	---	-.5	-1.1	---
30	---	1.7	.7	---	---	1.1	.3	---	---	-.5	-.8	---
31	---	1.7	.8	---	---	---	---	---	---	.5	-.5	---
MONTH	---	1.9	.1	---	---	2.4	---	---	---	1.9	-1.2	---

08077740 LaMarque Levee Pump Station near LaMarque, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JANUARY					FEBRUARY					MARCH		
	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	
	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	
1	---	.5	-.3	---	---	.8	-.2	---	---	.6	-.2	---	
2	---	.2	-.2	---	---	.6	-.2	---	---	.9	-.2	---	
3	---	.2	-.3	---	---	.4	-.4	---	---	.8	-.1	---	
4	---	-.1	-.7	---	---	.4	-.5	---	---	.2	-.8	---	
5	---	-.1	-.8	---	---	.2	-.7	---	---	-.2	-1.1	---	
6	---	.1	-.8	---	---	.4	-.6	---	---	.3	-.8	---	
7	---	.3	-.5	---	---	.8	-.3	---	---	.4	-.5	---	
8	---	.1	-1.0	---	---	1.1	.0	---	---	.9	-.1	---	
9	---	.3	-.7	---	---	1.2	-.3	---	---	1.0	-.4	---	
10	-2.7	1.9	.2	---	---	.1	-.7	---	---	1.1	-.2	---	
11	-2.2	2.0	.2	---	---	.7	.1	---	---	1.6	1.0	---	
12	---	.3	-.7	---	---	.9	.5	---	---	1.2	.7	---	
13	---	1.0	.1	---	---	.7	.1	---	---	.7	.3	---	
14	---	1.1	-.1	---	---	.7	.0	---	-2.1	1.5	-.1	---	
15	---	.4	-.1	---	---	1.0	.0	---	-2.2	1.3	.2	---	
16	.5	1.6	.4	-.2	---	1.0	-.5	---	---	.3	-.7	---	
17	---	1.6	.8	---	---	.1	-1.2	---	---	1.5	-.1	---	
18	---	.8	-.2	---	---	.7	-.4	---	---	1.5	.6	---	
19	---	.5	-.6	---	---	1.1	.0	---	---	1.2	.2	---	
20	---	-.3	-1.2	---	---	1.2	.1	---	---	.2	-.9	---	
21	---	.2	-.6	---	---	.6	-.2	---	---	.1	-.6	---	
22	---	.2	-.6	---	---	.6	-.2	---	---	.1	-.5	---	
23	---	---	-.6	---	---	1.7	.6	---	---	.3	-.2	---	
24	---	---	-.4	---	---	2.1	1.1	---	---	.6	.2	---	
25	---	.2	-.6	---	---	1.2	.3	---	---	.4	-.1	---	
26	---	.5	-.3	---	---	1.0	.5	---	---	1.0	.2	---	
27	---	.6	-.1	---	---	1.0	.6	---	---	1.4	.5	---	
28	---	.9	.3	---	---	.8	.3	---	-2.5	2.4	1.2	---	
29	---	.9	.1	---	---	---	---	---	---	1.9	1.2	---	
30	---	.5	-.1	---	---	---	---	---	---	1.2	.6	---	
31	---	.3	-.1	---	---	---	---	---	---	1.1	.2	---	
MONTH	---	---	-1.2	---	---	2.1	-1.2	---	---	2.4	-1.1	---	
DAY	APRIL					MAY			JUNE				
	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	
	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	
1	---	1.0	-.1	---	---	1.8	.6	---	---	.5	-.1	---	
2	---	1.4	.2	---	---	1.9	1.2	---	---	.8	-.1	---	
3	---	1.4	.4	---	---	1.9	1.3	---	---	1.0	.0	---	
4	---	1.2	.3	---	---	2.0	1.4	---	---	1.6	.3	---	
5	---	1.3	.6	---	---	2.0	1.4	---	-.4	3.7	.6	.3	
6	---	1.5	.9	---	---	2.0	1.0	---	-2.7	3.1	.7	-.9	
7	---	1.6	1.0	---	---	1.6	.6	---	---	1.2	.3	---	
8	---	1.4	.9	---	---	1.3	.4	---	-2.4	1.4	.1	-1.7	
9	---	1.5	.8	---	---	1.3	.2	---	2.5	2.7	.9	2.4	
10	---	1.6	.8	---	---	1.6	.3	---	-2.0	1.7	.9	-.2	
11	---	2.0	1.1	---	---	1.5	.5	---	---	1.2	.5	---	
12	---	1.6	.8	---	---	1.3	.3	---	---	1.1	.1	---	
13	---	1.3	.4	---	---	1.2	.2	---	---	1.4	.5	---	
14	---	1.3	.3	---	---	.9	.0	---	---	1.7	1.1	---	
15	---	1.1	.4	---	---	1.0	.1	---	---	1.4	.6	---	
16	---	1.1	.1	---	---	.9	.3	---	---	.8	.1	---	
17	---	.9	.2	---	---	1.0	.5	---	---	.6	.0	---	
18	---	1.5	.7	---	---	1.1	.7	---	---	.9	.0	---	
19	---	1.5	.9	---	---	.9	.3	---	---	1.0	.0	---	
20	---	1.6	1.1	---	---	.9	.2	---	---	1.0	-.1	---	
21	---	1.4	1.0	---	---	1.1	.2	---	---	1.0	-.1	---	
22	---	1.8	1.2	---	---	.6	-.2	---	---	.7	-.3	---	
23	---	1.8	1.0	---	---	1.0	-.1	---	---	1.0	-.3	---	
24	-2.9	1.0	.4	---	---	1.1	.0	---	---	1.1	-.1	---	
25	---	1.2	.2	---	---	1.0	-.2	---	---	1.2	.1	---	
26	---	1.5	.3	---	---	1.1	-.1	---	---	1.1	.3	---	
27	---	1.4	.4	---	---	1.1	.0	---	---	.8	.1	---	
28	---	1.6	.2	---	---	1.1	.2	---	---	.9	.3	---	
29	---	1.6	.4	---	---	1.0	.1	---	---	1.1	.4	---	
30	---	1.7	.7	---	---	1.1	.5	---	---	1.2	.2	---	
31	---	---	---	---	---	.8	.2	---	---	---	---	---	
MONTH	---	2.0	-.1	---	---	2.0	-.2	---	---	3.7	-.3	---	

HIGHLAND BAYOU BASIN

08077740 LaMarque Levee Pump Station near LaMarque, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JULY				AUGUST				SEPTEMBER			
	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY	LAND- WARD	SEA- WARD	SEA- WARD	SUPPLE- MENTARY
	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	1.1	.1	---	---	.7	-.2	---	-1.4	1.8	.8	-1.6
2	-1.8	1.3	.0	-1.3	---	1.1	-.2	---	-1.7	1.6	.5	-2.0
3	-1.8	1.4	.4	-1.2	---	1.5	.4	---	-1.4	1.2	.3	-1.7
4	---	1.4	.3	-2.0	---	1.7	.6	---	-2.6	1.0	.5	---
5	---	1.3	.2	---	---	1.5	.7	---	---	1.1	.4	---
6	---	1.1	.1	---	---	1.6	.5	---	---	1.0	.6	---
7	---	1.2	.0	---	---	1.5	.8	---	---	1.2	.8	---
8	---	1.0	.1	---	---	1.2	.8	---	---	1.4	.7	---
9	---	.8	-.1	---	---	1.2	.8	---	-2.8	1.8	.7	---
10	---	.6	-.2	---	---	1.1	.6	---	---	1.4	.5	---
11	---	.4	-.2	---	---	.8	.1	---	---	1.2	.1	---
12	---	.5	-.2	---	---	.6	-.1	---	---	1.2	.2	---
13	---	.2	-.2	---	---	.5	-.4	---	---	1.8	.4	---
14	---	.2	-.3	---	-2.7	.7	-.4	---	---	2.1	.9	---
15	---	.7	-.2	---	-2.7	.8	-.3	---	---	2.0	1.0	---
16	---	.9	-.1	---	-2.7	1.0	-.2	---	---	1.8	1.0	---
17	---	1.3	.1	---	-2.7	1.0	.0	---	---	1.4	.9	---
18	---	1.2	.2	---	---	1.2	.0	---	---	1.7	.7	---
19	---	1.2	.0	---	---	1.2	.1	---	---	1.5	.9	---
20	---	.9	.0	---	---	1.2	.2	---	---	1.1	.3	---
21	---	1.0	-.2	---	---	1.3	.4	---	---	1.3	.4	---
22	---	.9	-.2	---	---	1.1	.6	---	---	1.4	.5	---
23	---	1.3	-.1	---	---	1.1	.6	---	---	1.5	.6	---
24	---	1.5	.5	---	---	1.2	.4	---	---	1.4	.0	---
25	---	1.3	.7	---	---	1.2	.3	---	---	1.6	.5	---
26	---	1.1	.4	---	---	1.2	.2	---	---	1.6	.8	---
27	---	1.3	.3	---	---	1.0	.1	---	---	1.6	.6	---
28	---	1.2	.3	---	-2.6	1.5	.1	---	-3.0	1.5	.6	---
29	---	1.1	.0	---	---	1.7	.3	---	---	1.5	.7	---
30	---	.9	.0	---	2.0	2.3	.7	1.2	---	1.5	.6	---
31	---	.9	-.1	---	2.5	2.6	1.4	1.8	---	---	---	---
MONTH	---	1.5	-.3	---	---	2.6	-.4	---	---	2.1	.0	---

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CHOCOLATE BAYOU BASIN

08078000 Chocolate Bayou near Alvin, TX

LOCATION.--Lat 29°22'09", long 95°19'14", Brazoria County, Hydrologic Unit 12040204, on right bank 800 ft downstream from bridge on Farm Road 1462, 5.9 mi southwest of Alvin, and 6.9 mi upstream from State Highway 35.

DRAINAGE AREA.--87.7 mi². During extreme flooding, overflow from about 11 mi² of the Mustang Bayou drainage basin enters the Chocolate Bayou basin upstream from gage.

PERIOD OF RECORD.--Aug. to Oct. 1944, Mar. to Dec. 1946 (low-water records during irrigation season), Jan. 1947 to Feb. 1958, Mar. 1958 to Feb. 1959 (discharge measurements only), Mar. 1959 to current year.

Water-quality records.--Chemical data: May 1971 to Sept. 1985. Biochemical data: May 1971 to Sept. 1985. Pesticide data: May 1971 to Sept. 1981.

GAGE.--Water-stage recorder. Datum of gage is 0.31 ft above sea level. Prior to May 3, 1959, nonrecording gage or water-stage recorders located at various sites from 900 to 1,400 ft upstream and at datum 3.00 ft higher. May 3, 1959, to Sept. 30, 1987, present site, at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation. Stage-discharge relation is affected by seasonal vegetation during most years. Large area of riceland above station is irrigated with water diverted from the Brazos River. Low flow from Apr. to Oct. is largely drainage from these irrigated lands. Diversions for irrigation occur above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1939, reached a stage of 32.5 ft, present site and datum, adjusted from floodmark 1,700 ft to right and 550 ft upstream from present gage, on basis of slope of flood of Oct. 8, 1949, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

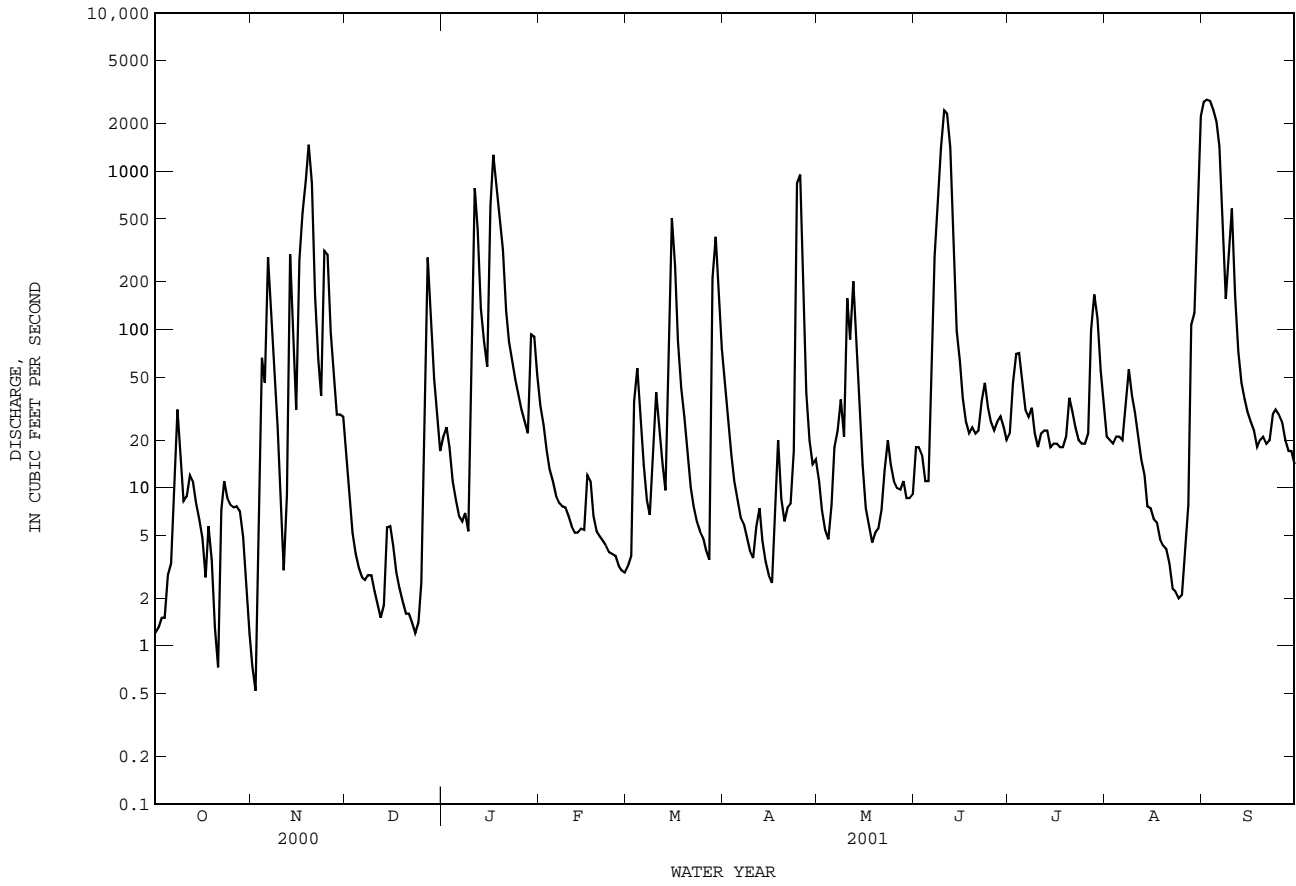
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.74	16	21	33	3.2	44	11	18	22	21	2730
2	1.3	.52	8.5	24	25	3.7	27	7.2	18	46	20	2820
3	1.5	7.0	5.2	18	17	35	16	5.4	16	70	19	2770
4	1.5	66	3.8	11	13	57	11	4.7	11	71	21	2430
5	2.8	46	3.1	8.4	11	28	8.4	7.8	11	48	21	2050
6	3.3	286	2.7	6.6	8.9	14	6.5	18	93	31	20	1440
7	8.5	136	2.6	6.1	8.0	8.3	5.9	23	288	28	33	547
8	31	57	2.8	6.9	7.6	6.7	4.8	36	610	32	56	156
9	17	24	2.8	5.3	7.5	15	4.0	21	1410	22	38	299
10	8.2	7.6	2.2	26	6.6	40	3.6	157	2420	18	30	579
11	8.8	3.0	1.8	780	5.7	24	5.7	86	2310	22	21	165
12	12	8.9	1.5	432	5.2	14	7.4	201	1410	23	15	73
13	11	298	1.8	136	5.2	9.6	4.6	68	320	23	12	46
14	8.0	115	5.6	84	5.5	44	3.4	30	98	18	7.6	36
15	6.3	31	5.7	58	5.4	503	2.8	14	63	19	7.4	30
16	4.8	275	4.3	602	12	252	2.5	7.4	37	19	6.3	26
17	2.7	550	2.9	1270	11	84	8.5	5.8	26	18	6.0	23
18	5.7	872	2.3	770	6.6	43	20	4.5	22	18	4.7	18
19	3.5	1470	1.9	492	5.3	28	8.5	5.2	24	21	4.3	20
20	1.3	844	1.6	319	4.9	16	6.1	5.5	22	37	4.1	21
21	.73	162	1.6	131	4.6	10	7.5	7.2	23	30	3.3	19
22	7.2	65	1.4	84	4.3	7.6	7.9	13	35	24	2.3	20
23	11	38	1.2	63	3.9	6.1	17	20	46	20	2.2	29
24	8.6	313	1.4	48	3.8	5.3	838	14	32	19	2.0	31
25	7.8	296	2.5	38	3.7	4.8	948	11	26	19	2.1	29
26	7.5	95	35	31	3.2	4.0	150	9.9	23	22	4.0	26
27	7.6	48	284	26	3.0	3.5	40	9.7	26	99	7.8	20
28	7.1	29	108	22	2.9	212	20	11	28	166	107	17
29	4.9	29	49	93	---	385	14	8.6	24	118	127	17
30	2.4	28	29	90	---	158	15	8.6	20	55	562	14
31	1.2	---	17	52	---	76	---	9.1	---	34	2230	---
TOTAL	206.43	6200.76	609.2	5754.3	233.8	2100.8	2258.1	840.6	9510	1212	3417.1	16501
MEAN	6.66	207	19.7	186	8.35	67.8	75.3	27.1	317	39.1	110	550
MAX	31	1470	284	1270	33	503	948	201	2420	166	2230	2820
MIN	.73	.52	1.2	5.3	2.9	3.2	2.5	4.5	11	18	2.0	14
AC-FT	409	12300	1210	11410	464	4170	4480	1670	18860	2400	6780	32730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1959	83.1	522	.52	1978	90.8	378	.38	2000	99.6	378	.77	1990
1960	135	464	2.17	2000	105	508	.98	2000	77.2	476	.70	1987
1961	96.8	572	8.57	1987	127	528	16.8	1996	96.8	572	16.8	1987
1962	211	876	18.2	1990	150	876	12.9	1990	211	876	12.9	1990
1963	107	642	12.3	1999	107	642	12.3	1999	107	642	12.3	1999
1964	143	843	4.47	1979	143	843	4.47	1979	143	843	4.47	1979

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1959 - 2001
ANNUAL TOTAL	13952.84	48844.09	
ANNUAL MEAN	38.1	134	118
HIGHEST ANNUAL MEAN			340
LOWEST ANNUAL MEAN			19.4
HIGHEST DAILY MEAN	1470	2820	15700
LOWEST DAILY MEAN	.25	.52	.03
ANNUAL SEVEN-DAY MINIMUM	.39	1.6	.08
MAXIMUM PEAK FLOW		2920	21500
MAXIMUM PEAK STAGE		31.25	33.88
ANNUAL RUNOFF (AC-FT)	27680	96880	85390
10 PERCENT EXCEEDS	49	287	206
50 PERCENT EXCEEDS	7.6	18	30
90 PERCENT EXCEEDS	.61	3.0	3.4

08078000 Chocolate Bayou near Alvin, TX--Continued



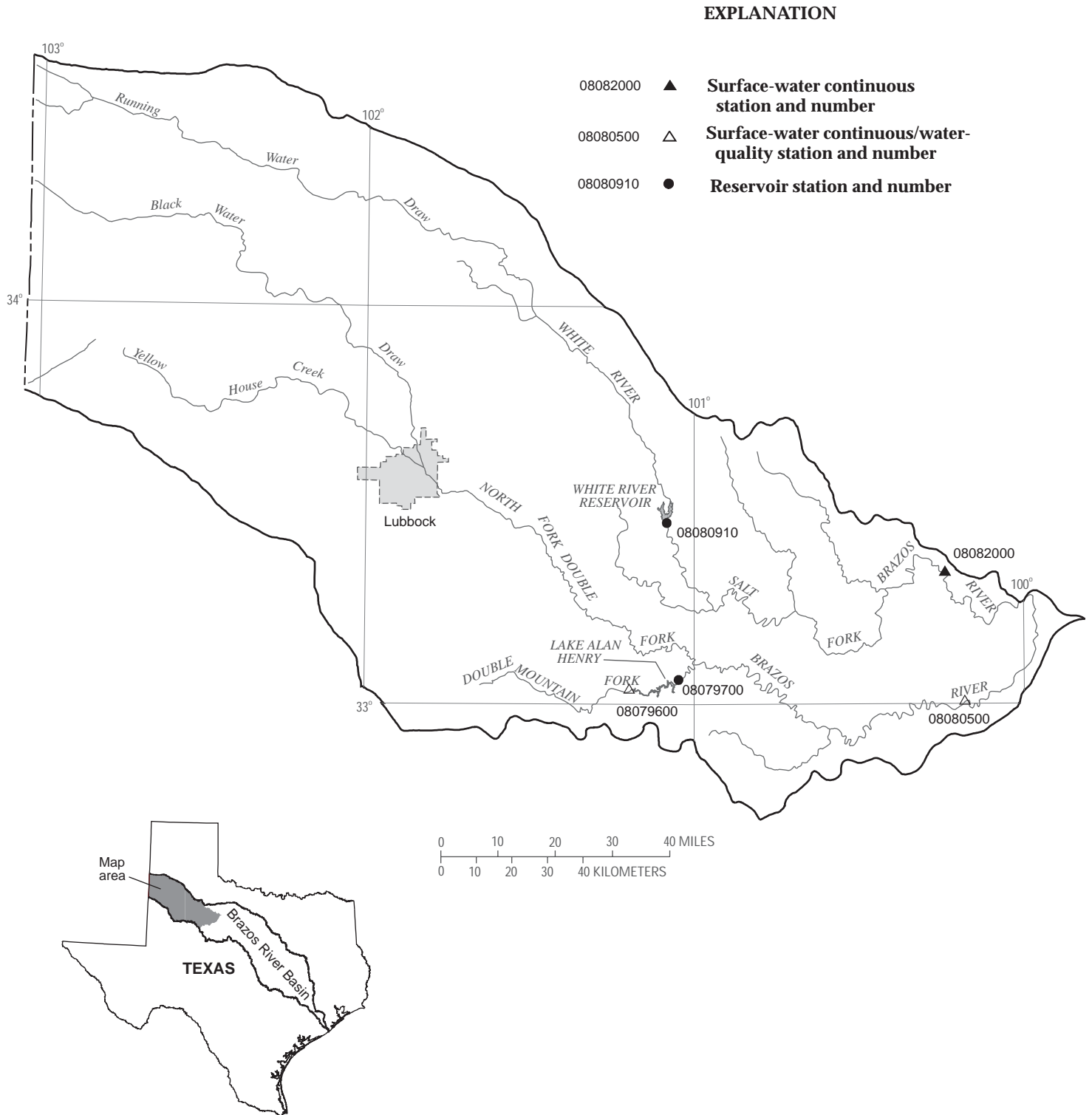


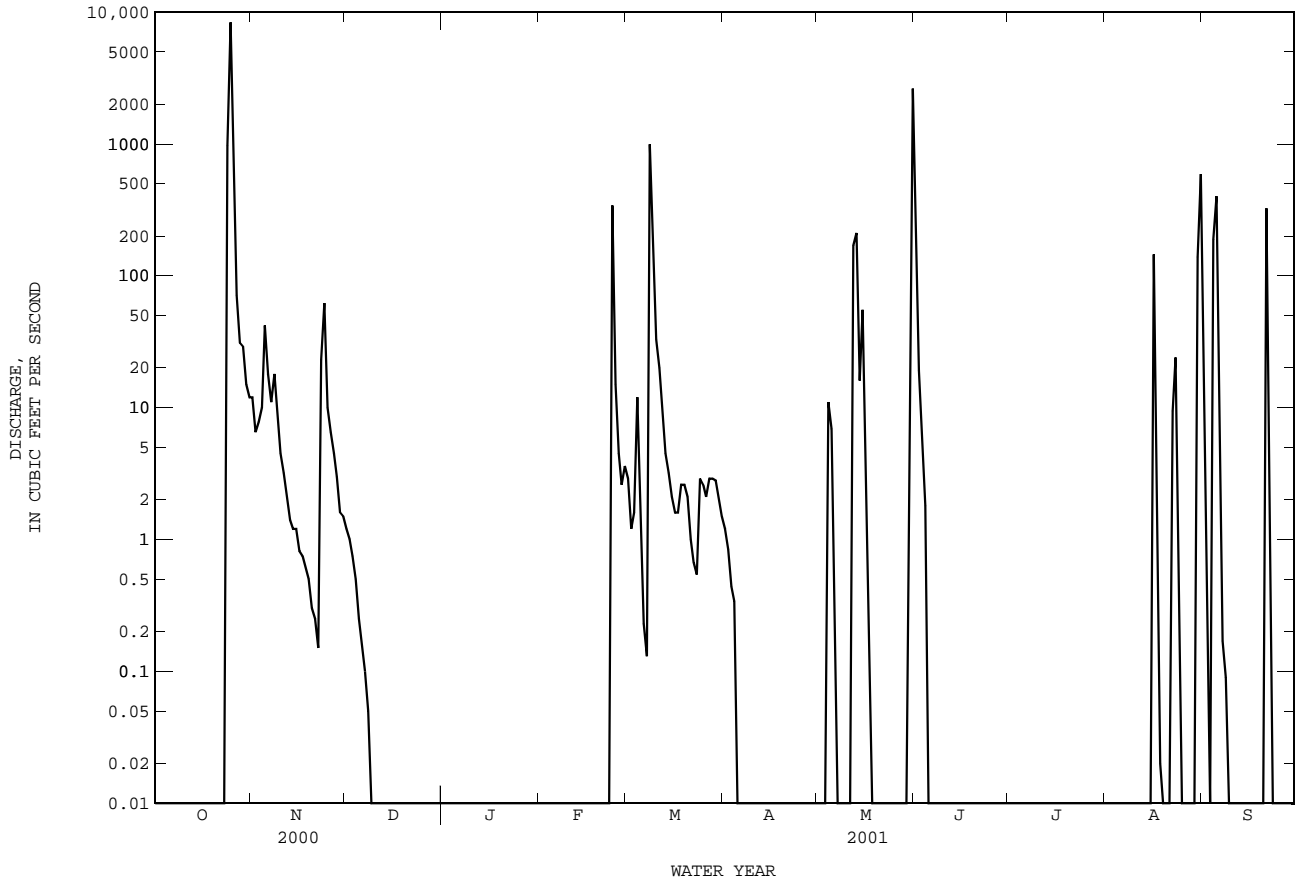
Figure 5.--Map showing location of gaging stations in the first section of the Brazos River Basin

08079600	Double Mountain Fork Brazos River at Justiceburg, TX	202
08079700	Lake Alan Henry Reservoir near Justiceburg, TX	208
08080500	Double Mountain Fork Brazos River near Aspermont, TX	210
08080910	White River Reservoir near Spur, TX	214
08082000	Salt Fork Brazos River near Aspermont, TX	216

08079600 Double Mountain Fork Brazos River at Justiceburg, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001	
ANNUAL TOTAL	15713.51		17476.78		26.1	
ANNUAL MEAN	42.9		47.9		69.8	
HIGHEST ANNUAL MEAN					1.65	
LOWEST ANNUAL MEAN					10000	
HIGHEST DAILY MEAN	8330	Oct 25	8330	Oct 25		Jun 12 1999
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Feb 17 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 3 1962
MAXIMUM PEAK FLOW			27000	Oct 25	c49600	May 6 1969
MAXIMUM PEAK STAGE			p17.10	Oct 25	p19.80	May 6 1969
ANNUAL RUNOFF (AC-FT)	31170		34670		18900	
ANNUAL RUNOFF (CFSM)	.18		.20		.11	
ANNUAL RUNOFF (INCHES)	2.40		2.66		1.45	
10 PERCENT EXCEEDS	8.0		11		9.3	
50 PERCENT EXCEEDS	.00		.00		.02	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
 c From rating curve extended above 5,350 ft³/s on basis of slope-area measurements of 27,300 and 34,900 ft³/s.
 p Observed.



08079600 Double Mountain Fork Brazos River at Justiceburg, TX--Continued

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 2000 TO SEPTEMBER 2001

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. 2000	10461	431	217	6140	110	3200	16	464	27
NOV. 2000	262.77	3030	1580	1120	830	588	120	83.5	200
DEC. 2000	4	7320	3980	43.0	2100	22.8	290	3.1	530
JAN. 2001	0	--	--	--	--	--	--	--	--
FEB. 2001	366.7	817	415	411	220	215	31	31.0	52
MAR. 2001	1285.67	1110	570	1980	300	1030	43	149	72
APR. 2001	2.82	7240	3940	30.0	2100	15.9	290	2.2	520
MAY 2001	3107.53	721	365	3060	190	1600	28	231	46
JUNE 2001	140	1290	660	250	350	131	50	18.8	83
JULY 2001	0	--	--	--	--	--	--	--	--
AUG. 2001	907.94	837	425	1040	220	544	32	78.5	53
SEPT 2001	938.35	3140	1640	4160	860	2190	120	310	210
TOTAL	17476.78	**	**	18230	**	9540	**	1370	**
WTD.AVG.	48	756	386	**	200	**	29	**	49

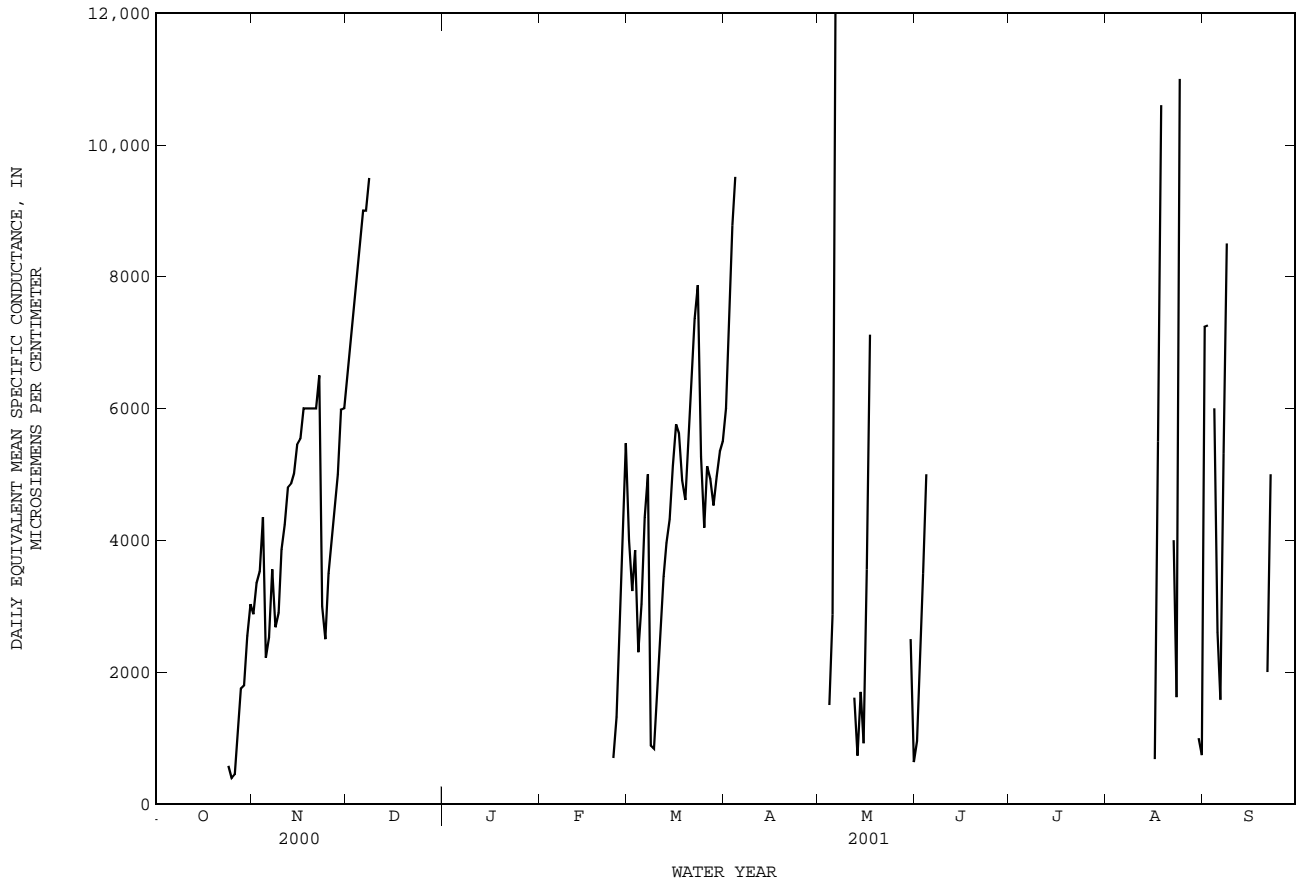
SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2880	e6500	---	---	e4000	e6000	---	955	---	---	7240
2	---	3350	e7000	---	---	3230	7280	---	2220	---	---	7260
3	---	3530	e7500	---	---	3850	8780	---	e3500	---	---	---
4	---	4350	e8000	---	---	2300	9510	e1500	e5000	---	---	e6000
5	---	2220	e8500	---	---	3030	---	2870	---	---	---	2600
6	---	2530	e9000	---	---	4350	---	12000	---	---	---	1580
7	---	3560	e9000	---	---	5000	---	---	---	---	---	5320
8	---	2680	e9500	---	---	885	---	---	---	---	---	8500
9	---	2900	---	---	---	840	---	---	---	---	---	---
10	---	3860	---	---	---	1900	---	---	---	---	---	---
11	---	4240	---	---	---	2680	---	---	---	---	---	---
12	---	4800	---	---	---	3450	---	1610	---	---	---	---
13	---	4860	---	---	---	3960	---	730	---	---	---	---
14	---	5010	---	---	---	4320	---	1700	---	---	---	---
15	---	5450	---	---	---	5130	---	920	---	---	---	---
16	---	5540	---	---	---	5760	---	3560	---	---	680	---
17	---	e6000	---	---	---	5620	---	7120	---	---	e5500	---
18	---	e6000	---	---	---	4910	---	---	---	---	10600	---
19	---	e6000	---	---	---	4610	---	---	---	---	---	---
20	---	e6000	---	---	---	5400	---	---	---	---	---	---
21	---	e6000	---	---	---	6440	---	---	---	---	---	2000
22	---	e6500	---	---	---	7360	---	---	---	---	e4000	e5000
23	---	e3000	---	---	---	7870	---	---	---	---	1620	---
24	575	e2500	---	---	e700	5270	---	---	---	---	11000	---
25	390	e3500	---	---	1320	4190	---	---	---	---	---	---
26	450	e4000	---	---	2640	5120	---	---	---	---	---	---
27	1010	e4500	---	---	3670	4930	---	---	---	---	---	---
28	1750	e5000	---	---	5470	4530	---	---	---	---	---	---
29	1800	5980	---	---	---	4970	---	---	---	---	---	---
30	2550	e6000	---	---	---	5350	---	e2500	---	---	e1000	---
31	3030	---	---	---	---	e5500	---	635	---	---	740	---

e Estimated

BRAZOS RIVER BASIN

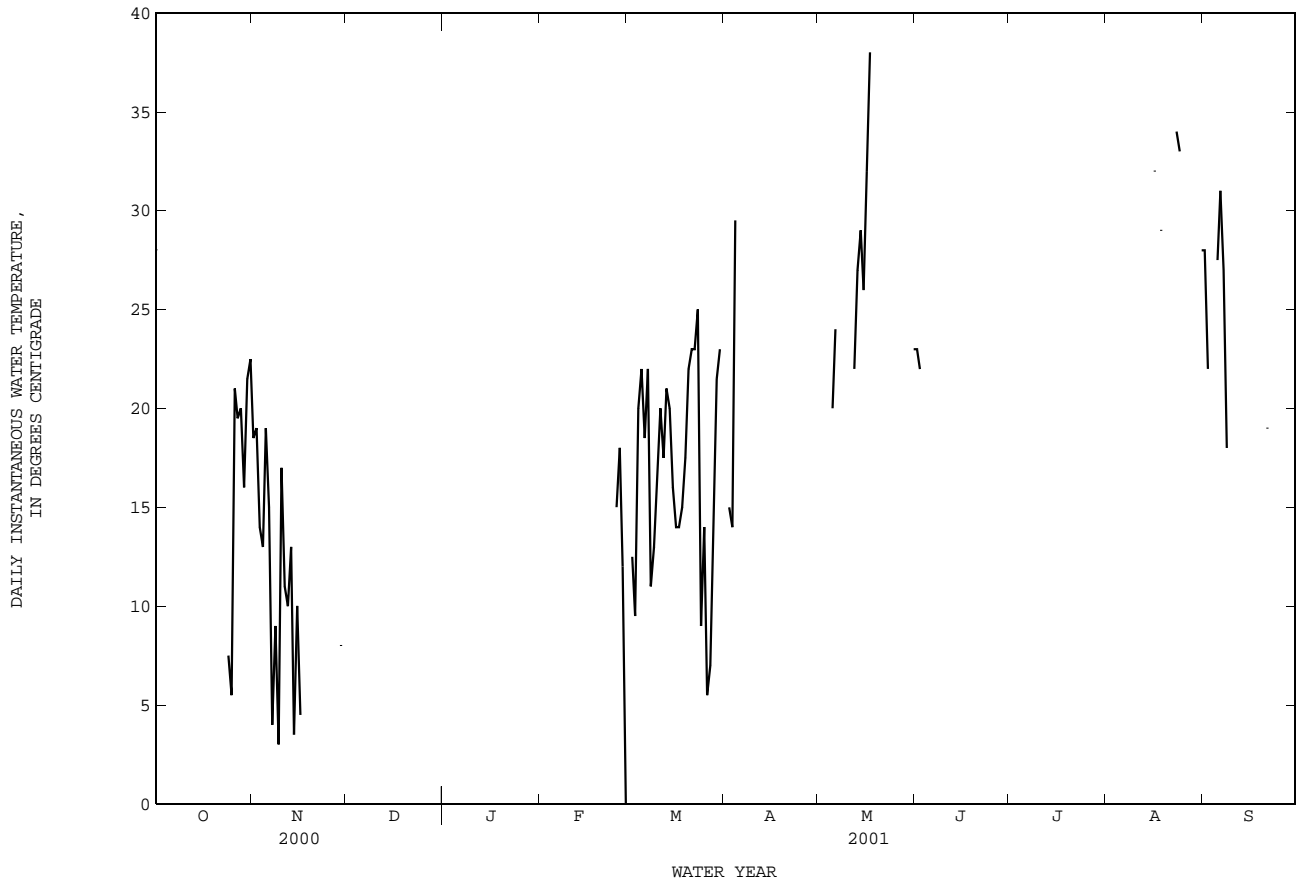
08079600 Double Mountain Fork Brazos River at Justiceburg, TX--Continued



TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.5	---	---	---	---	---	---	23.0	---	---	28.0
2	---	19.0	---	---	---	12.5	15.0	---	22.0	---	---	22.0
3	---	14.0	---	---	---	9.5	14.0	---	---	---	---	---
4	---	13.0	---	---	---	20.0	29.5	---	---	---	---	---
5	---	19.0	---	---	---	22.0	---	20.0	---	---	---	27.5
6	---	15.0	---	---	---	18.5	---	24.0	---	---	---	31.0
7	---	4.0	---	---	---	22.0	---	---	---	---	---	27.0
8	---	9.0	---	---	---	11.0	---	---	---	---	---	18.0
9	---	3.0	---	---	---	13.0	---	---	---	---	---	---
10	---	17.0	---	---	---	16.5	---	---	---	---	---	---
11	---	11.0	---	---	---	20.0	---	---	---	---	---	---
12	---	10.0	---	---	---	17.5	---	22.0	---	---	---	---
13	---	13.0	---	---	---	21.0	---	27.0	---	---	---	---
14	---	3.5	---	---	---	20.0	---	29.0	---	---	---	---
15	---	10.0	---	---	---	16.0	---	26.0	---	---	---	---
16	---	4.5	---	---	---	14.0	---	32.0	---	---	32.0	---
17	---	---	---	---	---	14.0	---	38.0	---	---	---	---
18	---	---	---	---	---	15.0	---	---	---	---	29.0	---
19	---	---	---	---	---	17.5	---	---	---	---	---	---
20	---	---	---	---	---	22.0	---	---	---	---	---	---
21	---	---	---	---	---	23.0	---	---	---	---	---	19.0
22	---	---	---	---	---	23.0	---	---	---	---	---	---
23	---	---	---	---	---	25.0	---	---	---	---	34.0	---
24	7.5	---	---	---	---	9.0	---	---	---	---	33.0	---
25	5.5	---	---	---	15.0	14.0	---	---	---	---	---	---
26	21.0	---	---	---	18.0	5.5	---	---	---	---	---	---
27	19.5	---	---	---	12.0	7.0	---	---	---	---	---	---
28	20.0	---	---	---	.0	13.0	---	---	---	---	---	---
29	16.0	8.0	---	---	---	21.5	---	---	---	---	---	---
30	21.5	---	---	---	---	23.0	---	---	---	---	---	---
31	22.5	---	---	---	---	---	---	23.0	---	---	28.0	---

08079600 Double Mountain Fork Brazos River at Justiceburg, TX--Continued



BRAZOS RIVER BASIN

08079700 Lake Alan Henry Reservoir near Justiceburg, TX

LOCATION.--Lat 33°03'46", long 101°02'50", Garza County, Hydrologic Unit 12050004, on left bank at left end of John T. Montford Dam in intake structure on Double Mountain Fork Brazos River, 0.5 mi west of Garza and Kent county line and 9.0 mi east of Justiceburg.

DRAINAGE AREA.--1,616.7 mi², of which 1,222 mi² probably is noncontributing.

PERIOD OF RECORD.--Oct. 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Brazos River Authority). Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The dam was completed Oct. 1993. The reservoir is formed by a rolled earthfill dam, 3,600 foot long. The dam and lake are owned by the city of Lubbock and operated by Brazos River Authority for recreation and future municipal use. The spillway consists of a fixed gate type service spillway with an ogee crest and a 1,700-foot-long emergency spillway cut into natural ground near right end of dam. The control works consist of 30 and 42-inch-diameter gated steel conduits, encased in concrete, that discharge from the outlet structure. Conservation pool storage is 115,937 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	2,263.0
Design flood.....	2,259.4
Crest of spillway.....	2,240.0
Crest of service spillway (top of conservation pool).....	2,220.0
Lowest gated outlet (invert).....	2,140.0

COOPERATION.--The capacity curve dated Oct. 1, 1993, was furnished by the Brazos River Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 93,310 acre-ft, Oct. 26, 2000, elevation, 2,211.58 ft; minimum contents, 34,640 acre-ft, Mar. 16, 17, 1999, elevation, 2,180.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 93,310 acre-ft, Oct. 26, elevation, 2,211.58 ft; minimum contents, 68,220 acre-ft, Oct. 15, elevation, 2,200.56 ft.

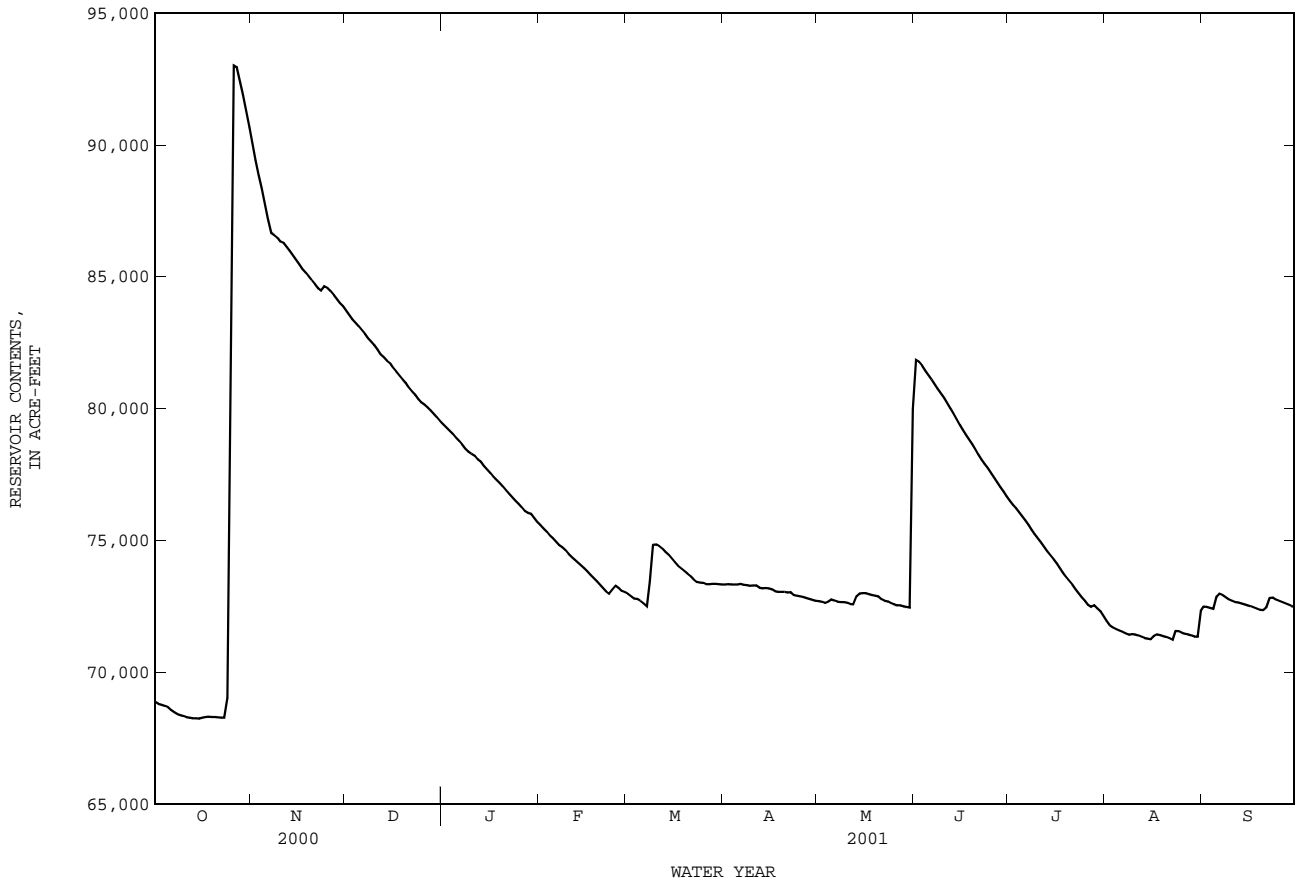
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68870	90060	83700	79400	75580	72970	73330	72690	81840	76500	71940	72490
2	68800	89410	83530	79270	75450	72880	73340	72670	81770	76350	71770	72480
3	68760	88830	83380	79170	75330	72790	73330	72620	81630	76220	71680	72440
4	68720	88310	83250	79040	75200	72780	73330	72670	81440	76070	71630	72400
5	68680	87760	83110	78900	75080	72710	73330	72760	81270	75910	71580	72860
6	68570	87170	82960	78780	74950	72610	73350	72720	81090	75750	71530	72970
7	68480	86650	82830	78630	74820	72500	73310	72670	80930	75580	71470	72930
8	68410	86570	82660	78490	74730	73430	73300	72660	80740	75390	71420	72840
9	68370	86470	82530	78360	74630	74830	73280	72660	80570	75230	71440	72750
10	68330	86330	82400	78280	74490	74840	73290	72630	80400	75070	71430	72700
11	68290	86280	82230	78200	74370	74780	73290	72580	80220	74910	71400	72660
12	68270	86120	82060	78070	74260	74690	73200	72570	80020	74750	71350	72640
13	68250	85960	81940	77990	74160	74560	73180	72880	79820	74590	71300	72610
14	68250	85800	81810	77820	74050	74460	73190	72980	79600	74430	71270	72570
15	68240	85640	81710	77680	73950	74310	73180	73000	79380	74280	71250	72540
16	68270	85470	81540	77550	73820	74160	73140	73000	79200	74130	71370	72500
17	68300	85290	81400	77420	73690	74040	73070	72960	79010	73940	71430	72450
18	68310	85150	81240	77300	73580	73950	73050	72920	78830	73770	71410	72400
19	68300	85020	81100	77170	73460	73850	73050	72900	78640	73610	71370	72360
20	68300	84860	80960	77040	73330	73740	73040	72880	78450	73460	71330	72350
21	68290	84710	80790	76900	73190	73640	73020	72770	78260	73310	71280	72460
22	68280	84560	80650	76770	73070	73520	73030	72710	78060	73160	71230	72820
23	68270	84470	80520	76640	72970	73420	72930	72680	77890	73000	71560	72830
24	69030	84630	80350	76500	73130	73400	72900	72620	77730	72840	71550	72750
25	76260	84570	80230	76380	73280	73380	72870	72570	77560	72700	71490	72700
26	93000	84450	80150	76260	73190	73340	72850	72540	77380	72550	71460	72660
27	92940	84300	80040	76120	73080	73340	72810	72540	77200	72470	71430	72610
28	92420	84160	79920	76050	73030	73350	72780	72500	77020	72530	71390	72560
29	91880	84000	79780	76010	---	73350	72740	72480	76840	72420	71350	72510
30	91270	83870	79660	75850	---	73340	72710	72450	76670	72300	71340	72470
31	90660	---	79520	75710	---	73330	---	79980	---	72130	72320	---
MEAN	73260	85900	81550	77540	74070	73620	73110	72940	79320	74170	71480	72610
MAX	93000	90060	83700	79400	75580	74840	73350	79980	81840	76500	72320	72970
MIN	68240	83870	79520	75710	72970	72500	72710	72450	76670	72130	71230	72350
(+)	2210.51	2207.68	2205.79	2204.08	2202.85	2202.99	2202.69	2205.98	2204.52	2202.43	2202.51	2202.58
(@)	+21780	-6790	-4350	-3810	-2680	+300	-620	+7270	-3310	-4540	+190	+150
CAL YR 2000	MAX 93000	MIN 64110	(@) +14200									
WTR YR 2001	MAX 93000	MIN 68240	(@) +3590									

(+) Elevation, in feet, at end of month.

(@) Change in contents, in acre-feet.

08079700 Lake Alan Henry Reservoir near Justiceburg, TX--Continued



BRAZOS RIVER BASIN

08080500 Double Mountain Fork Brazos River near Aspermont, TX

LOCATION.--Lat 33°00'29", long 100°10'49", Stonewall County, Hydrologic Unit 12050004, on right bank at downstream side of bridge on U.S. Highway 83, 0.3 mi downstream from Hitson Creek, 10.0 mi south of Aspermont, and at mile 34.5, measured from confluence with Salt Fork Brazos River, which is at mile 923.2 on the Brazos River.

DRAINAGE AREA.--8,796 mi², of which 6,932 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Dec. 1923 to Sept. 1934, June 1939 to current year.

REVISED RECORDS.--WSP 733: 1927(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,624.79 ft above sea level. Dec. 3, 1923, to Sept. 30, 1934, nonrecording gage at site 90 ft downstream at datum 2.0 ft higher, and June 8, 1939, to Aug. 12, 1972, water-stage recorder at present site at datum 2.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges and discharges below 5.0 ft³/s, which are poor. Since water year 1994, at least 10% of contributing drainage area has been regulated. There are small diversions above station for oil field operations. No flow at times most years.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--64 years (water years 1925-34, 1940-93) prior to completion of Lake Alan Henry Reservoir, 158 ft³/s (114,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925-34, 1940-93).--Maximum discharge, 91,400 ft³/s Sept. 26, 1955 (gage height, 29.50 ft) from rating curve extended above 75,900 ft³/s; no flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	197	85	73	76	108	50	11	422	25	13	7.9
2	.00	192	80	76	75	110	46	11	413	25	10	6.6
3	.00	191	78	76	76	95	42	11	167	27	8.6	6.1
4	.00	247	77	77	77	90	39	13	76	27	7.6	5.3
5	.00	211	78	77	79	90	36	20	61	25	7.8	42
6	.00	202	77	75	79	88	34	26	114	23	9.1	82
7	.00	204	74	77	77	103	30	18	89	21	9.0	29
8	.00	230	73	76	78	190	28	14	58	20	7.1	24
9	.00	225	72	76	83	177	25	13	48	19	6.0	18
10	.00	162	70	80	79	264	24	11	44	18	6.2	12
11	.00	134	68	83	78	230	47	10	42	17	5.7	10
12	.00	120	66	83	77	159	107	9.9	40	16	.96	8.9
13	.00	110	71	83	77	136	48	9.4	38	16	1.2	7.1
14	.00	98	71	81	77	134	32	9.1	60	15	5.5	5.4
15	.00	93	69	80	115	124	28	9.3	45	16	6.3	5.5
16	2.0	91	67	79	119	117	23	8.3	38	15	6.2	5.2
17	78	85	64	79	86	111	21	6.2	37	13	6.5	5.1
18	80	83	64	78	79	111	20	5.9	36	12	7.1	3.0
19	14	80	62	78	77	108	20	e6.0	35	11	7.8	1.8
20	7.7	77	63	77	75	105	19	7.3	34	10	5.5	5.0
21	3.8	74	61	76	73	101	18	7.5	32	9.9	1.6	27
22	42	73	62	75	71	95	17	8.0	29	9.2	1.4	14
23	22	82	61	75	70	89	16	5.4	38	8.3	43	8.0
24	55	132	62	73	70	101	15	4.7	47	7.8	22	1.8
25	47	113	63	72	68	89	15	5.4	36	7.2	24	.85
26	103	114	68	73	68	88	14	4.9	33	6.7	17	.40
27	1410	116	71	73	115	84	13	3.3	32	6.5	12	.20
28	529	103	73	75	105	76	13	2.7	28	7.8	20	.10
29	321	96	78	80	---	67	12	6.7	26	6.5	16	e.10
30	240	91	78	78	---	59	12	8.6	25	8.9	13	-.07
31	209	---	74	76	---	55	---	67	---	11	9.9	---
TOTAL	3163.50	4026	2180	2390	2279	3554	864	353.6	2223	460.8	317.06	342.42
MEAN	102	134	70.3	77.1	81.4	115	28.8	11.4	74.1	14.9	10.2	11.4
MAX	1410	247	85	83	119	264	107	67	422	27	43	82
MIN	.00	73	61	72	68	55	12	2.7	25	6.5	.96	.07
AC-FT	6270	7990	4320	4740	4520	7050	1710	701	4410	914	629	679

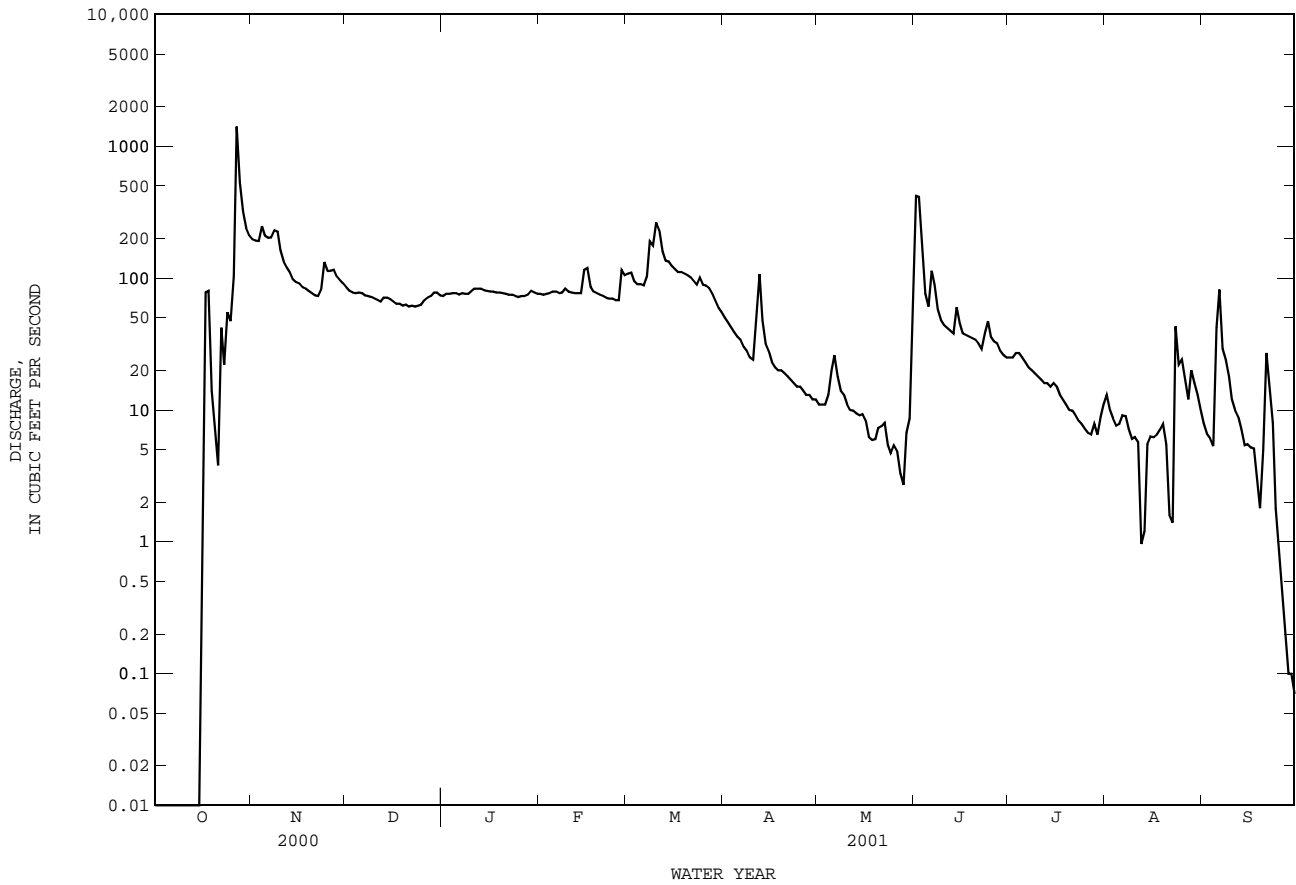
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001z, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2001z
MEAN	20.7	22.9	13.0	12.7	29.7	107	43.1	78.9	261
MAX	102	134	70.3	77.1	143	685	253	181	1264
(WY)	2001	2001	2001	2001	1997	2000	1997	1995	1999
MIN	.94	.25	.000	.33	.005	.042	.033	.84	15.5
(WY)	1999	1994	1999	2000	1999	1995	1995	1996	1994

08080500 Double Mountain Fork Brazos River near Aspermont, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001z	
ANNUAL TOTAL	40696.59		22153.38			
ANNUAL MEAN	111		60.7		59.9	
HIGHEST ANNUAL MEAN					129	1999
LOWEST ANNUAL MEAN					7.55	1998
HIGHEST DAILY MEAN	14600	Mar 23	1410	Oct 27	14600	Mar 23 2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 3	.00	Oct 1	.00	Oct 1 1993
MAXIMUM PEAK FLOW			2860	Oct 27	23000	Mar 23 2000
MAXIMUM PEAK STAGE			p7.14	Oct 27	p17.30	Mar 23 2000
ANNUAL RUNOFF (AC-FT)	80720		43940		43390	
10 PERCENT EXCEEDS	158		113		89	
50 PERCENT EXCEEDS	17		42		3.0	
90 PERCENT EXCEEDS	.00		5.2		.00	

e Estimated
z Period of regulated streamflow.
p Observed.



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BRAZOS RIVER BASIN

08080910 White River Reservoir near Spur, TX

LOCATION.--Lat 33°27'28", long 101°05'01", Crosby County, Hydrologic Unit 12050006, on right bank at intake structure at White River Dam on White River, 0.5 mi downstream from Sand Creek, 1.7 mi upstream from Home Creek, 13.0 mi west of Spur, and 22.8 mi upstream from Salt Fork Brazos River.

DRAINAGE AREA.--3,069 mi², of which 2,380 mi² probably is noncontributing.

PERIOD OF RECORD.--Apr. 1964 to Sept. 1976, Jan. 1999 to current year.
Water-quality records.--Chemical data: Dec. 1970 to July 1975.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by a rolled earthfill dam 3,300 ft long. The dam was completed and storage began in Oct. 1963. The emergency spillway is an open cut channel through rock, 1,100 ft wide, located at the right end of dam. The spillway is designed to discharge 69,000 ft³/s with a 7.5 ft head. The uncontrolled service spillway is a 5.0 ft square drop-inlet structure that discharges through a 5.0 ft square concrete conduit. The service outlet is a controlled 18-inch diameter concrete pipe that is connected to the 5.0 ft conduit. There is a pump station about 1,400 ft upstream from the dam on the right bank. The pump station is connected to the lake by a 58-inch diameter concrete pipe. The dam is owned by the White River Municipal Water District. The water in the reservoir is used for municipal and industrial supplies for the cities of Crosbyton, Post, Ralls, and Spur. Contents for Apr. 1964 to Sept. 1976 from area-capacity curves dated July 1960. Conservation pool storage is 31,537 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	2,395.0
Crest of emergency spillway.....	2,384.0
Crest of service spillway.....	2,372.5
Lowest gated outlet (invert).....	2,331.2

COOPERATION.--The capacity table dated June 23, 1993, furnished by Texas Water Development Board is based on Oct. 1992 volumetric survey. Records of diversions may be obtained from White River Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 45,580 acre-ft, Oct. 25, 1974, elevation, 2,372.84 ft; minimum contents, 7,700 acre-ft, Apr. 24, 1999, elevation, 2,350.43 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,190 acre-ft, Nov. 8, elevation, 2,355.99 ft; minimum contents, 8,130 acre-ft, Sept. 30, elevation, 2,351.04 ft.

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

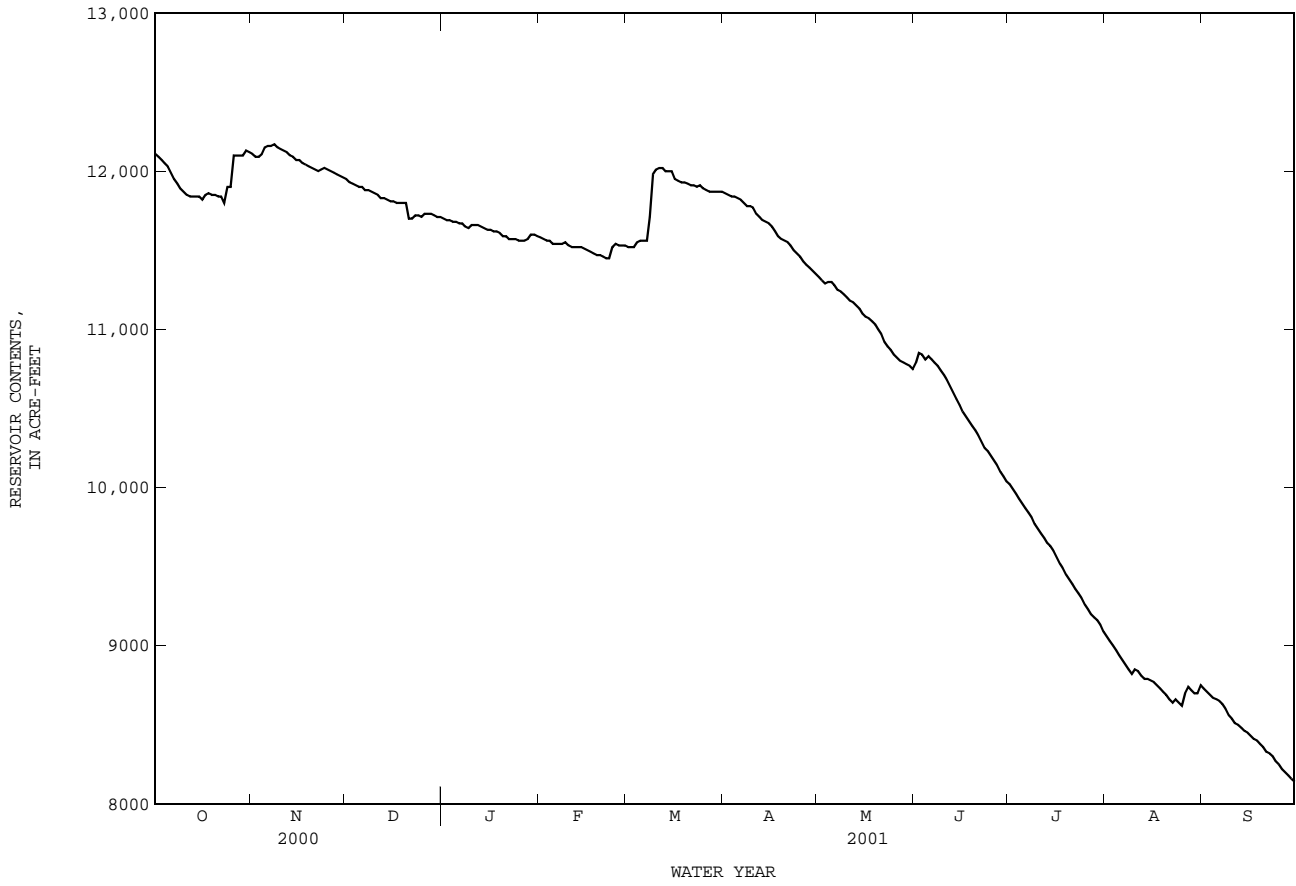
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12110	12110	11950	11700	11580	11520	11860	11330	10790	10020	9060	8730
2	12090	12090	11930	11690	11570	11520	11850	11310	10850	9990	9030	8710
3	12070	12090	11920	11690	11560	11520	11840	11290	10840	9960	9000	8690
4	12050	12110	11910	11680	11560	11550	11840	11300	10810	9930	8970	8670
5	12030	12150	11900	11680	11540	11560	11830	11300	10830	9900	8940	8660
6	11990	12160	11900	11670	11540	11560	11820	11280	10810	9870	8910	8650
7	11950	12160	11880	11670	11540	11560	11800	11250	10790	9840	8880	8630
8	11920	12170	11880	11650	11540	11710	11780	11240	10770	9810	8850	8600
9	11890	12150	11870	11640	11550	11980	11780	11220	10740	9770	8820	8560
10	11870	12140	11860	11660	11530	12010	11770	11200	10710	9740	8850	8540
11	11850	12130	11850	11660	11520	12020	11730	11180	10680	9710	8840	8510
12	11840	12120	11830	11660	11520	12020	11710	11170	10640	9680	8810	8500
13	11840	12100	11830	11650	11520	12000	11690	11150	10600	9650	8790	8480
14	11840	12090	11820	11640	11520	12000	11680	11130	10560	9630	8790	8460
15	11840	12070	11810	11630	11510	12000	11670	11100	10520	9600	8780	8450
16	11820	12070	11810	11630	11500	11950	11650	11080	10480	9560	8770	8430
17	11850	12050	11800	11620	11490	11940	11620	11070	10450	9520	8750	8410
18	11860	12040	e11800	11620	11480	11930	11590	11050	10420	9490	8730	8400
19	11850	12030	e11800	11610	11470	11930	11570	11030	10390	9450	8710	8380
20	11850	12020	e11800	11590	11470	11920	11560	11000	10360	9420	8690	8360
21	11840	12010	e11700	11590	11460	11910	11550	10970	10330	9390	8660	8330
22	11840	12000	e11700	11570	11450	11910	11530	10920	10290	9360	8640	8320
23	e11800	12010	11720	11570	11450	11900	11500	10890	10250	9330	8660	8300
24	e11900	12020	11720	11570	11520	11910	11480	10870	10230	9300	8640	8270
25	e11900	12010	11710	11560	11540	11890	11460	10840	10200	9260	8620	8250
26	e12100	12000	11730	11560	11530	11880	11430	10820	10170	9230	8700	8220
27	e12100	11990	11730	11560	11530	11870	11410	10800	10140	9200	8740	8200
28	e12100	11980	11730	11570	11530	11870	11390	10790	10100	9180	8720	8180
29	e12100	11970	11720	11600	---	11870	11370	10780	10070	9160	8700	8160
30	12130	11960	11710	11600	---	11870	11350	10770	10040	9130	8700	8140
31	12120	---	11710	11590	---	11870	---	10750	---	9090	8750	---
MEAN	11950	12070	11810	11630	11520	11840	11640	11060	10500	9550	8790	8440
MAX	12130	12170	11950	11700	11580	12020	11860	11330	10850	10020	9060	8730
MIN	11800	11960	11700	11560	11450	11520	11350	10750	10040	9090	8620	8140
(+)	2355.91	2355.73	2355.45	2355.32	2355.25	2355.63	2355.04	2354.35	2353.51	2352.32	2351.87	2351.05
(@)	+10	-160	-250	-120	-60	+340	-520	-600	-710	-950	-340	-610
CAL YR 2000	MAX 16680	MIN 11710	(@) -4980									
WTR YR 2001	MAX 12170	MIN 8140	(@) -3970									

e Estimated

(+) Elevation, in feet, at end of month.

(@) Change in contents, in acre-feet.

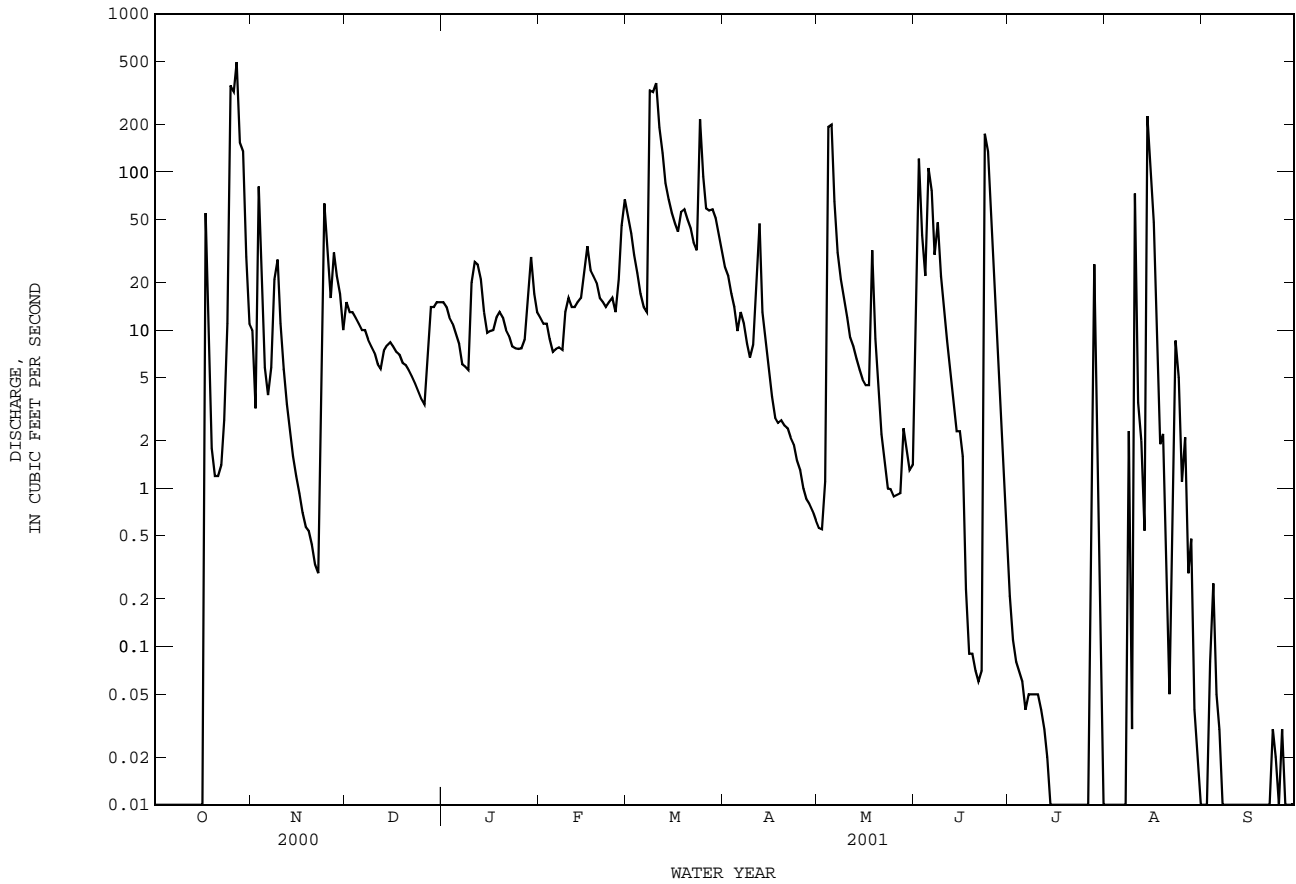
08080910 White River Reservoir near Spur, TX--Continued

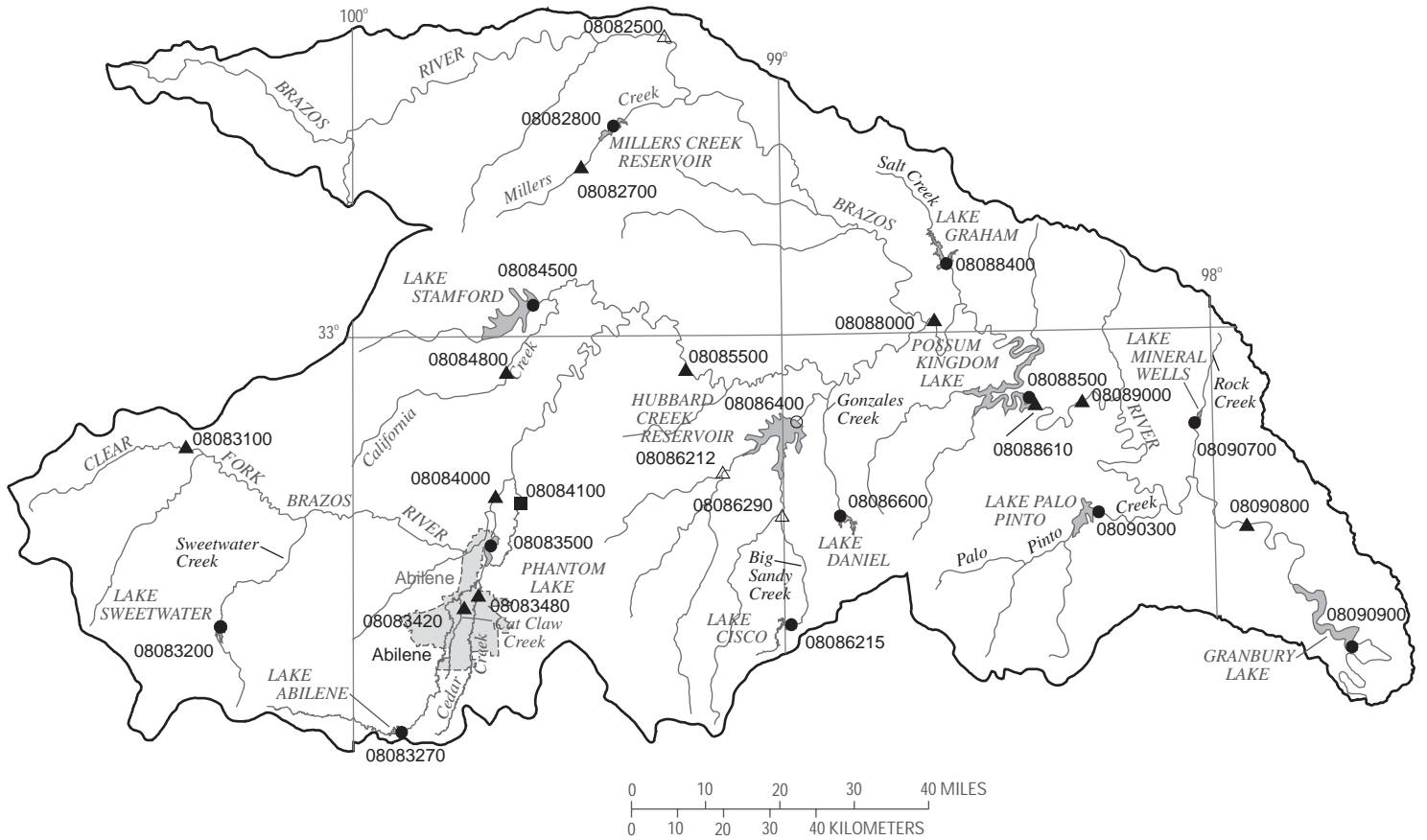


08082000 Salt Fork Brazos River near Aspermont, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1964 - 2001z	
ANNUAL TOTAL	13183.47	8166.48	65.1	
ANNUAL MEAN	36.0	22.4	212	1987
HIGHEST ANNUAL MEAN			11.7	1998
LOWEST ANNUAL MEAN			11300	Aug 14 1972
HIGHEST DAILY MEAN	4470 Mar 23	496 Oct 27	.00	Jul 31 1972
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00	Oct 11 1999
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 12	.00 Oct 1	c30200	Aug 30 1966
MAXIMUM PEAK FLOW		1300 Oct 25	12.45	Aug 30 1966
MAXIMUM PEAK STAGE		5.03 Oct 25	47170	
ANNUAL RUNOFF (AC-FT)	26150	16200	108	
10 PERCENT EXCEEDS	47	51	6.9	
50 PERCENT EXCEEDS	.37	6.1	.15	
90 PERCENT EXCEEDS	.00	.00		

e Estimated
 z Period of regulated streamflow.
 c From rating curve extended above 28,800 ft³/s by logarithmic plotting.





EXPLANATION

- 08085500 ▲ **Surface-water continuous station and number**
- 08086212 △ **Surface-water continuous/water-quality station and number**
- 08083500 ● **Reservoir station and number**
- 08086400 ○ **Reservoir/water-quality station and number**
- 08084100 ■ **Surface-water partial record/stage only station and number**



Figure 6.--Map showing location of gaging stations in the second section of the Brazos River Basin

08082500	Brazos River at Seymour, TX	220
08082700	Millers Creek near Munday, TX	224
08082800	Millers Creek Reservoir near Bomarton, TX	226
08083100	Clear Fork Brazos River near Roby, TX	228
08083200	Lake Sweetwater near Sweetwater, TX	230
08083270	Lake Abilene near Buffalo Gap, TX	232
08083420	Cat Claw Creek at Abilene, TX	234
08083480	Cedar Creek at Interstate Highway 20 at Abilene, TX	236
08083500	Fort Phantom Hill Reservoir near Nugent, TX	238
08084000	Clear Fork Brazos River at Nugent, TX	240
08084100	Deadman Creek near Nugent, TX	455
08084500	Lake Stamford near Haskell, TX	242
08084800	California Creek near Stamford, TX	244
08085500	Clear Fork Brazos River at Fort Griffin, TX	246
08086212	Hubbard Creek below Albany, TX	248
08086215	Lake Cisco near Cisco, TX	256
08086290	Big Sandy Creek above Breckenridge, TX	258
08086400	Hubbard Creek Reservoir near Breckenridge, TX	266
08086600	Lake Daniel near Breckenridge, TX	272
08088000	Brazos River near South Bend, TX	274
08088400	Lake Graham near Graham, TX	276
08088500	Possum Kingdom Lake near Graford, TX	278
08088610	Brazos River near Graford, TX	280
08089000	Brazos River near Palo Pinto, TX	282
08090300	Lake Palo Pinto near Santo, TX	284
08090700	Lake Mineral Wells near Mineral Wells, TX	286
08090800	Brazos River near Dennis, TX	288
08090900	Lake Granbury near Granbury, TX	290

BRAZOS RIVER BASIN

08082500 Brazos River at Seymour, TX

LOCATION.--Lat 33°34'51", long 99°16'02", Baylor County, Hydrologic Unit 12060101, on left bank at downstream side of bridge on U.S. Highways 277 and 283, 0.8 mi upstream from Wichita Valley Railway bridge, 1.0 mi southwest of courthouse in Seymour, and at mile 847.4.

DRAINAGE AREA.--15,538 mi², approximately, of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Dec. 1923 to current year.

REVISED RECORDS.--WSP 808: 1924-29. WSP 1312: 1933. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,238.97 ft above sea level. Prior to Apr. 6, 1972, at datum 2.00 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and those for daily discharges below 1 ft³/s, which are poor. Since water year 1964, at least 10% of contributing drainage area has been regulated. Flow affected at times by discharge from the flood-detention pools of 12 floodwater-retarding structures. These structures control runoff from 108 mi² above this station. Small diversions upstream from station for irrigation and for oil field operations. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods in 1906 and in Sept 1955 both reached peak stages of 23.0 ft, from information by local residents.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--39 years (water years 1925-63) prior to regulation by small diversions, 434 ft³/s (314,100 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-63).--Maximum discharge, 95,400 ft³/s Oct. 16, 1926 (gage height, 15.16 ft); no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e717	154	46	62	432	256	45	219	24	.00	8.6
2	.00	e509	114	43	63	866	250	44	168	16	.00	9.8
3	.00	388	98	49	63	501	228	41	92	13	.32	7.7
4	.00	374	91	54	62	426	211	838	399	11	.01	7.6
5	.00	492	85	59	58	307	197	1020	444	8.8	.00	39
6	.00	553	84	50	58	226	189	311	258	7.4	.00	205
7	.43	369	80	47	68	196	173	306	201	6.1	.00	67
8	.00	366	75	45	96	1180	166	257	181	5.0	.00	47
9	.00	401	72	43	96	2230	153	181	218	4.8	.55	75
10	.00	367	69	50	81	2160	147	144	196	5.1	.01	60
11	.00	371	55	71	80	1420	216	104	154	3.9	.00	38
12	.00	296	42	57	86	1170	209	84	131	3.1	.00	27
13	.00	218	59	65	95	966	200	71	108	2.7	.00	19
14	.61	177	54	64	99	617	175	60	92	2.4	.54	14
15	2.3	154	77	56	872	445	217	52	71	2.2	1.8	13
16	.02	133	65	56	953	351	190	47	67	1.8	.72	12
17	.00	102	58	58	529	308	128	40	57	1.4	164	9.2
18	.12	93	57	56	463	298	112	48	76	1.3	.89	8.0
19	.00	89	51	54	423	299	111	60	64	1.4	.56	5.9
20	7.2	75	52	49	325	291	107	42	46	.99	53	17
21	249	70	45	54	182	286	102	23	38	.81	20	112
22	56	63	40	54	134	282	95	21	33	.53	11	41
23	20	86	43	57	127	258	75	24	33	.58	19	198
24	15	1610	36	54	142	1820	70	21	46	.27	7.6	164
25	30	685	35	50	127	1590	63	19	151	.23	83	73
26	e89	422	34	61	112	969	59	21	122	.28	68	34
27	e101	383	25	43	413	502	54	106	123	.14	54	21
28	e1230	300	58	48	645	386	50	110	78	.28	30	14
29	e2620	225	56	97	---	338	47	59	48	.13	18	10
30	e1560	184	45	85	---	297	45	41	34	.34	14	8.2
31	e1040	---	47	68	---	271	---	131	---	.03	11	---
TOTAL	7020.68	10272	1956	1743	6514	21688	4295	4371	3948	126.01	772.83	1365.0
MEAN	226	342	63.1	56.2	233	700	143	141	132	4.06	24.9	45.5
MAX	2620	1610	154	97	953	2230	256	1020	444	24	164	205
MIN	.00	63	25	43	58	196	45	19	33	.03	.00	5.9
AC-FT	13930	20370	3880	3460	12920	43020	8520	8670	7830	250	1530	2710

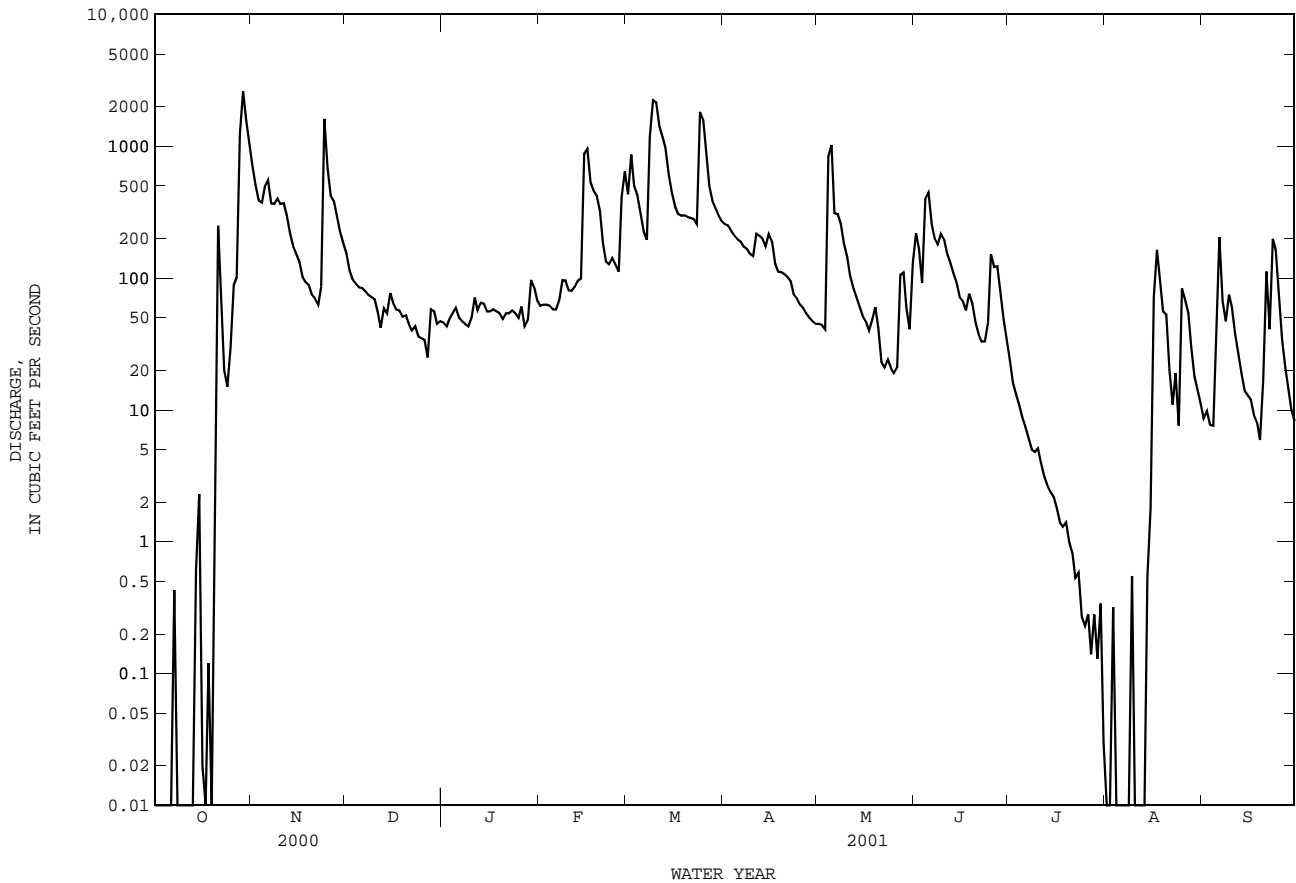
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001z, BY WATER YEAR (WY)

	344	127	75.4	71.3	116	167	174	549	738	171	343	446
MEAN	344	127	75.4	71.3	116	167	174	549	738	171	343	446
MAX	2449	679	603	434	1246	960	1318	2450	3505	995	3373	2336
(WY)	1984	1973	1992	1992	1992	2000	1990	1982	1990	1967	1972	1966
MIN	.25	2.72	3.02	4.49	4.20	2.28	1.21	3.68	8.03	.24	.000	.002
(WY)	1980	1978	1999	1971	1971	1971	1978	1996	1984	1970	1970	2000

08082500 Brazos River at Seymour, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1964 - 2001z	
ANNUAL TOTAL	74829.90	64071.52	277	
ANNUAL MEAN	204	176	742	1987
HIGHEST ANNUAL MEAN			61.1	1998
LOWEST ANNUAL MEAN			30700	Jun 4 1990
HIGHEST DAILY MEAN	10300 Mar 24	e2620 Oct 29	.00	May 24 1964
LOWEST DAILY MEAN	.00 Aug 22	.00 Oct 1	.00	Jul 12 1964
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 25	.05 Aug 1	42700	Aug 16 1972
MAXIMUM PEAK FLOW		3840 Mar 8	18.35	Aug 16 1972
MAXIMUM PEAK STAGE		5.96 Mar 8		
ANNUAL RUNOFF (AC-FT)	148400	127100	200600	
10 PERCENT EXCEEDS	405	417	520	
50 PERCENT EXCEEDS	26	62	50	
90 PERCENT EXCEEDS	.00	.39	2.4	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08082500 Brazos River at Seymour, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Aug. 1942 to Sept. 1995, Oct. 1996 to current year.
 BIOCHEMICAL DATA: Oct. 1974 to Sept. 1977, Dec. 1996 to current year.
 PESTICIDE DATA: Apr. 1975 to Aug. 1977.
 SEDIMENT DATA: Oct. 1974 to Sept. 1977.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Aug. 1959 to Sept. 1995.
 WATER TEMPERATURE: Aug. 1959 to Sept. 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 80,400 microsiemens/cm, May 24, 1971; minimum daily, 47 microsiemens/cm, May 16, 1989.
 WATER TEMPERATURE: Maximum daily, 38.0°C Aug. 1, 1983; minimum daily, 0.0°C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L CACO3) (00900)	HARD-NESS NONCARB FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)
MAR 27...	0950	511	5900	8.0	6.5	10.8	92.2	686	601	200	45.0	964	16.0
APR 25...	1100	64	17200	8.1	18.8	9.9	116	2040	1910	562	153	3250	31.4
JUN 20...	0950	49	8190	7.9	23.5	8.1	101	1210	1110	362	74.5	1430	17.9
AUG 23...	1225	20	11700	7.8	29.3	7.5	106	1420	1310	434	80.7	2070	24.0

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR 27...	8.55	85	598	1530	.4	6.2	3410	.617	.010	.627	.060	.375	.43
APR 25...	17.1	126	1630	5300	.6	6.4	11000	--	E.004	.067	<.041	--	.17
JUN 20...	10.9	95	1150	2070	.7	9.1	5160	--	<.006	E.044	<.040	--	.25
AUG 23...	13.9	105	1280	3330	.7	10.9	7300	.980	.013	.993	E.021	--	.39

DATE	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)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
MAR 27...	E.040	.036	.110	--	--	--	--	--	--	--	--	--	--
APR 25...	<.060	<.018	--	4.3	97.2	<.56	2.1	<5.2	<100	<4.00	30.2	<.01	<4.8
JUN 20...	<.060	<.020	--	E3.8	83.8	<.30	E1.5	10.4	<50	E1.89	20.2	--	<5.0
AUG 23...	<.060	<.020	--	--	--	--	--	--	--	--	--	--	--

SILVER, DIS-SOLVED (UG/L AS AG) (01075)
 ZINC, DIS-SOLVED (UG/L AS ZN) (01090)

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MAR 27...	--	--
APR 25...	<.6	<200
JUN 20...	E.2	<100
AUG 23...	--	--

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BRAZOS RIVER BASIN

08082700 Millers Creek near Munday, TX

LOCATION.--Lat 33°19'45", long 99°27'53", Throckmorton County, Hydrologic Unit 12060101, near right bank at downstream side of bridge on Farm Road 1720, 12.7 mi southeast of Munday, and 24.6 mi upstream from mouth.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--July 1963 to current year.

Water-quality records.--Sediment data: Oct. 1976 to Sept. 1978.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,350 ft above sea level, from topographic map. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1883 occurred June 13, 1930, and exceeded 18.0 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.0	3.5	.04	.54	28	.62	.63	e.00	.00	.00	.00
2	.00	.98	2.4	.00	.36	117	.68	.56	e.00	.00	.00	.00
3	.00	.45	1.6	.00	.28	63	.68	e.28	.00	.00	.00	.00
4	.00	.26	1.1	.00	.22	20	.68	e.04	.00	.00	.00	.00
5	.00	.18	.72	.00	.17	8.6	.68	e.00	.00	.00	.00	.00
6	.00	.14	.37	.00	.11	4.6	.68	e.00	.00	.00	.00	.00
7	.00	.26	.19	.00	.08	3.8	.68	.00	.00	.00	.00	.00
8	.00	2.4	.14	.00	.07	116	.68	.00	.00	.00	.00	.00
9	.00	4.2	.11	.00	.47	380	.68	.00	.00	.00	.00	.00
10	.00	5.4	.08	.18	.33	167	.68	.00	.00	.00	.00	.00
11	.00	2.2	.03	1.1	.23	31	.63	.00	.00	.00	.00	e.00
12	.00	.88	.00	.80	.16	13	.58	.00	.00	.00	.00	e.00
13	.00	.38	.02	.91	.12	7.5	.58	.00	.00	.00	.00	.00
14	.00	.21	.07	.80	.72	5.3	.58	.00	.00	.00	.00	.00
15	.00	.11	.07	.54	25	2.2	.58	.00	.00	.00	.00	.00
16	.00	.07	.05	.42	298	1.1	.59	.00	.00	.00	.00	.00
17	.00	.02	.01	.43	203	1.4	.68	.00	.00	.00	.00	.00
18	.00	.00	.00	.35	39	1.5	.68	.00	.00	.00	.00	.00
19	.00	.00	.00	.27	14	1.8	.68	.00	.00	.00	.00	.00
20	.00	.00	.00	.18	8.1	2.0	.68	.00	.00	.00	.00	.00
21	.00	.00	.00	.13	5.4	e.95	.63	.00	.00	.00	.00	.00
22	.00	.00	.00	.09	2.4	e.26	.58	.00	.00	.00	.00	.00
23	.00	11	.00	.06	1.6	e.02	.59	.00	.00	.00	.00	.00
24	.00	383	.00	.03	1.3	e.00	.63	.00	.00	.00	.00	.00
25	.01	326	.00	.00	1.2	e.00	.64	.00	.00	.00	.00	.00
26	2.7	42	.00	.00	1.6	e.00	.64	.00	.00	.00	.00	.00
27	6.4	12	.00	.04	1.8	.00	.68	.00	.00	.00	.00	.00
28	1.6	6.2	.00	.47	3.5	.00	.68	.00	.00	.00	.00	.00
29	3.3	4.7	.06	2.9	---	.08	.68	.00	.00	.00	.00	.00
30	30	4.1	.11	1.5	---	.21	.68	.00	.00	.00	.00	.00
31	13	---	.08	.89	---	.46	---	e.00	---	.00	.00	---
TOTAL	57.01	810.14	10.71	12.13	609.76	976.78	19.43	1.51	0.00	0.00	0.00	0.00
MEAN	1.84	27.0	.35	.39	21.8	31.5	.65	.049	.000	.000	.000	.000
MAX	30	383	3.5	2.9	298	380	.68	.63	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.07	.00	.58	.00	.00	.00	.00	.00
AC-FT	113	1610	21	24	1210	1940	39	3.0	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

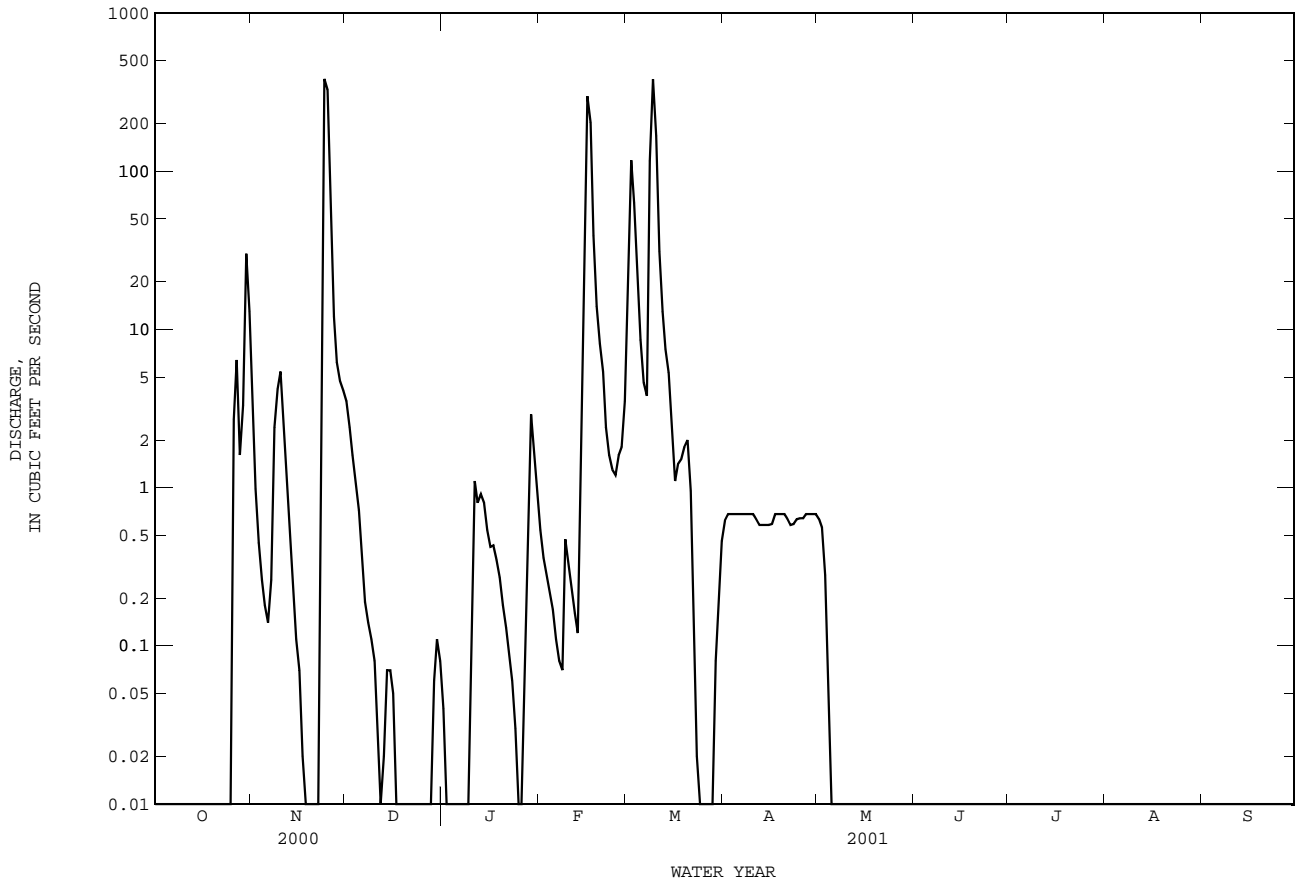
	4.46	2.11	.71	1.64	5.16	3.28	5.15	13.1	26.3	3.13	14.5	5.51
MEAN	4.46	2.11	.71	1.64	5.16	3.28	5.15	13.1	26.3	3.13	14.5	5.51
MAX	92.7	37.7	13.1	34.8	94.5	31.5	128	182	420	44.5	403	72.1
(WY)	1987	1973	1992	1968	1992	2001	1990	1982	1982	1998	1978	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1966	1964	1964	1966	1964	1964	1967	1966	1964	1964	1963

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1963 - 2001

ANNUAL TOTAL	1400.80	2497.47	
ANNUAL MEAN	3.83	6.84	7.12
HIGHEST ANNUAL MEAN			50.7
LOWEST ANNUAL MEAN			.033
HIGHEST DAILY MEAN	383	383	8730
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
MAXIMUM PEAK FLOW		605	34600
MAXIMUM PEAK STAGE		10.67	17.53
ANNUAL RUNOFF (AC-FT)	2780	4950	5160
10 PERCENT EXCEEDS	1.6	3.4	1.2
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

08082700 Millers Creek near Munday, TX--Continued



BRAZOS RIVER BASIN

08082800 Millers Creek Reservoir near Bomarton, TX

LOCATION.--Lat 33°24'32", long 99°23'19", Baylor County, Hydrologic Unit 12060101, at intake tower on left bank of Millers Creek, 1.1 mi upstream from dam, 7.1 mi southeast of Bomarton, and 13.2 mi upstream from mouth.

DRAINAGE AREA.--240 mi²

PERIOD OF RECORD.--Aug. 1974 to Oct. 1994, July 1998 to current year.
Water-quality records.--Chemical data: Oct. 1975 to Sept. 1984.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Freese and Nichols). Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 9,250 ft long. The dam was completed in 1974 and storage began in July 1974. Dead storage, 1,240 acre-ft below elevation 1,303.4 ft. The reservoir is used for municipal and industrial water supply. The uncontrolled spillway is an open cut 3,000 ft wide located on left bank about 800 ft upstream from levee. The service spillway is an uncontrolled morning-glory-type drop inlet, 16.5 ft square, that discharges through a 5.0-foot-square concrete conduit. Low-flow releases are made by valves in the outlet vault of the drop inlet. Conservation pool storage is 27,888 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,355.0
Crest of spillway.....	1,334.4
Lowest gated outlet (invert).....	1,305.0

COOPERATION.--The area-capacity tables, prepared from data of July 12,1993, were provided by the Texas Water Development Board. Records of diversions provided by North Central Texas Municipal Water Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 53,850 acre-ft, June 26, 1982, elevation, 1,341.42 ft; minimum contents were below dead storage elevation prior to Apr. 20, 1977, and July 17 to Aug. 3, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,050 acre-ft, June 3, elevation, 1,327.84 ft; minimum contents, 6,110 acre-ft, Oct. 12, elevation, 1,316.20 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6380	6420	8240	7950	7880	10150	14120	13630	16920	15840	14520	13840
2	6360	6410	8220	7940	7870	10510	14120	13620	17000	15810	14470	13810
3	6330	6400	8220	7930	7840	10990	14120	13600	17020	15780	14430	13790
4	6330	6410	8210	7920	7810	11140	14130	13920	16990	15740	14390	13770
5	6300	6410	8210	7910	7780	11200	14130	15360	16940	15710	14360	13790
6	6270	6410	8200	7900	7760	11210	14130	16150	16910	15670	14320	13780
7	6230	6400	8190	7890	7770	11220	14120	16250	16880	15630	14280	13750
8	6220	6440	8180	7870	7770	11390	14110	16720	16840	15580	14240	13700
9	6200	6450	8180	7870	7790	12420	14090	16960	16810	15530	14200	13690
10	6180	6440	8170	7880	7790	13370	14060	16980	16770	15500	14160	13660
11	6160	6440	8150	7910	7790	13650	14060	16960	16730	15450	14140	13630
12	6160	6450	8140	7900	7790	13720	14010	16950	16690	15410	14110	13610
13	6160	6440	8150	7900	7790	13720	13990	16950	16630	15350	14070	13580
14	6160	6430	8140	7900	7810	13720	14000	16940	16580	15300	14090	13560
15	6180	6420	8130	7890	7910	13720	13990	16920	16520	15270	14160	13550
16	6190	6420	8120	7890	8350	13710	13960	16890	16470	15230	14280	13530
17	6190	6410	8100	7890	9330	13720	13910	16860	16420	15180	14250	13510
18	6190	6400	8080	7890	9700	13760	13890	16820	16380	15130	14220	13490
19	6180	6390	8060	7890	9790	13800	13880	16800	16330	15080	14190	13460
20	6190	6380	8050	7880	9820	13840	13870	16780	16280	15030	14160	13450
21	6200	6370	8030	7870	9830	13880	13860	16700	16230	14990	14120	13470
22	6240	6370	8020	7870	9840	13920	13860	16650	16190	14940	14080	13450
23	6290	6390	8010	7860	9850	13960	13810	16610	16160	14890	14070	13430
24	6310	6770	7990	7860	9870	13990	13780	16560	16130	14840	14030	13390
25	6320	7680	---	7850	9870	14030	13760	16520	16100	14800	13990	13360
26	6330	8170	e8000	7850	9870	14060	13740	16550	16050	14760	13960	13340
27	6340	8240	e8000	7860	9920	14100	13710	16640	16010	14720	13950	13310
28	6330	8260	---	7870	10030	14110	13690	16630	15970	14690	13920	13290
29	6340	8260	7980	7890	---	14110	13670	16610	15920	14650	13900	13280
30	6340	8250	7970	7890	---	14120	13650	16600	15880	14610	13880	13260
31	6380	---	7960	7880	---	14120	---	16780	---	14560	13900	---
MEAN	6260	6770	8110	7890	8690	13080	13940	16290	16490	15220	14160	13550
MAX	6380	8260	8240	7950	10030	14120	14130	16980	17020	15840	14520	13840
MIN	6160	6370	7960	7850	7760	10150	13650	13600	15880	14560	13880	13260
(+)	1316.61	1319.23	1318.85	1318.75	1321.42	1325.55	1325.14	1327.64	1326.98	1325.93	1325.36	1324.77
(@)	10	1870	-290	-80	2150	4090	-470	3130	-900	-1320	-660	-640
(++)	107	86.4	103	94.6	81.4	86.2	107	121	145	173	148	114
CAL YR 2000	MAX 9490	MIN 6160	@ -1520									
WTR YR 2001	MAX 17020	MIN 6160	@ 6890									

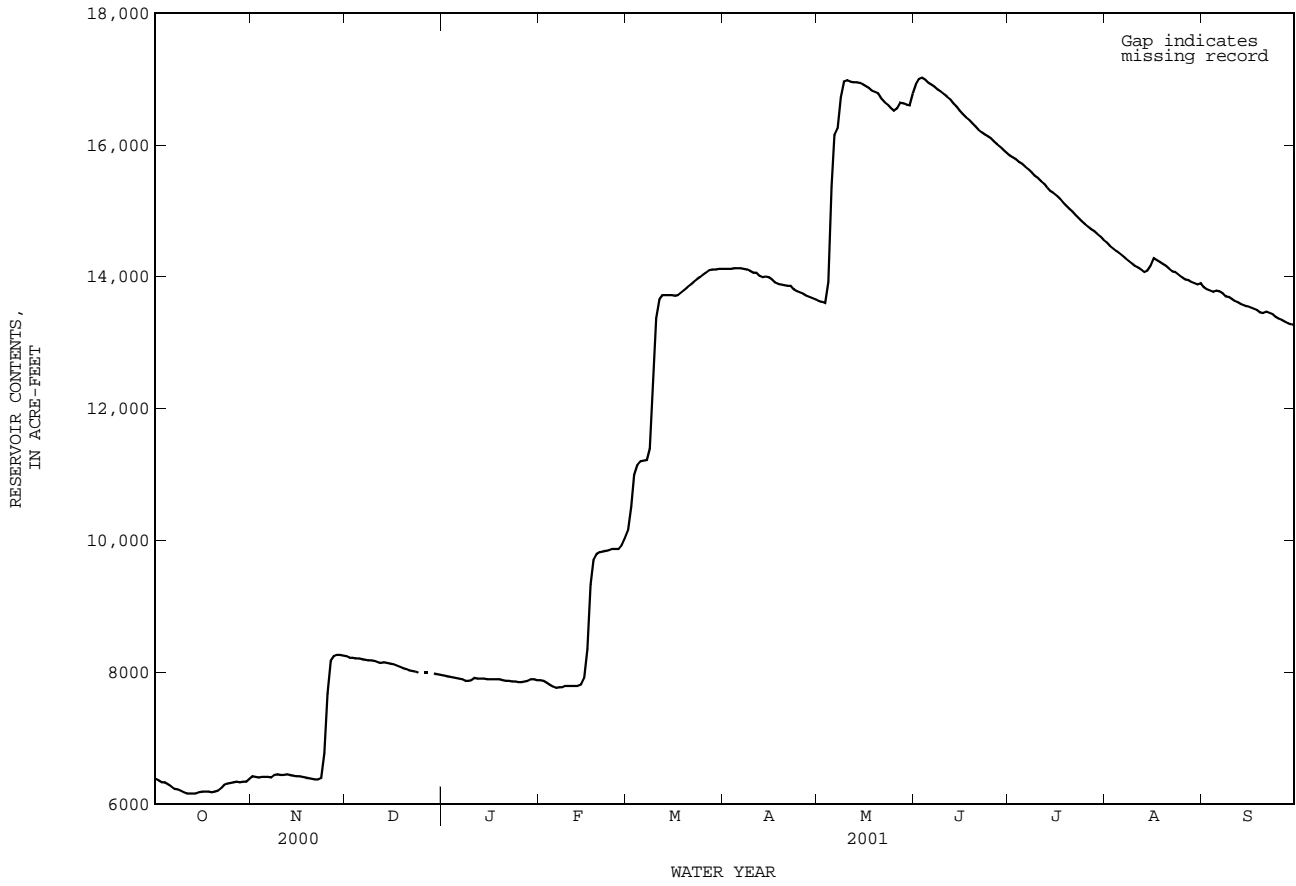
e Estimated

(+) Elevation, in feet, at end of month.

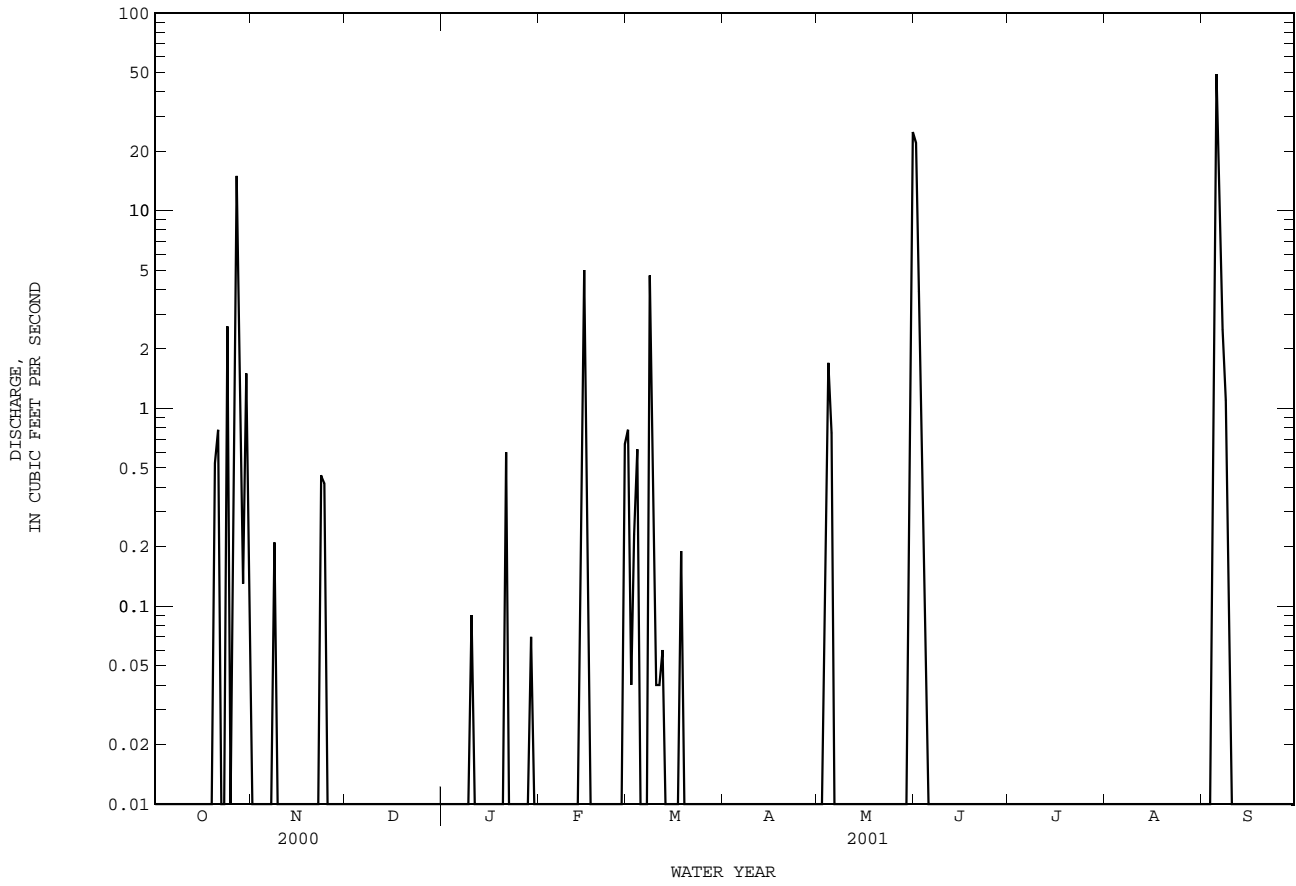
(@) Change in contents, in acre-feet.

(++) Diversions, in acre-feet, for municipal use by the North Central Texas Municipal Water Authority.

08082800 Millers Creek Reservoir near Bomarton, TX--Continued



08083100 Clear Fork Brazos River near Roby, TX--Continued



BRAZOS RIVER BASIN

08083200 Lake Sweetwater near Sweetwater, TX

LOCATION.--Lat 32°26'19", long 100°18'12", Nolan County, Hydrologic Unit 12060102, 0.2 mi right of intake structure to pump station, on upstream side of dam on Bitter Creek, 6.5 mi southeast of Sweetwater, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--Jan. 1936 to Sept. 1969 (end of month contents only), Sept. 1969 to Sept. 1974, Mar. 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Freese and Nichols Inc.). Prior to Oct. 1974, nonrecording gages at same site at datum 0.53 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 2,600 ft long. Dam was completed and storage began in 1930. Lake first filled to spillway elevation in 1936. Dam is property of city of Sweetwater and was built to impound water for municipal use; however, none has been used since 1967. Emergency spillway is located just to left of left end of dam and has a concrete ogee-type crest 607.5 ft long. Conservation pool storage is 2,544 acre-ft. Data regarding the dam are given in the following table:

	Elevation
	(feet)
Top of dam.....	2,128.5
Crest of spillway.....	2,116.5

COOPERATION.--The capacity table dated Apr. 24, 1953, was furnished by Freese and Nichols Inc. and is based on a survey in 1929. Record of diversions may be obtained from city of Sweetwater.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 12,360 acre-ft, June 1, 1957, elevation, 2,117.23 ft; minimum observed, 780 acre-ft, Aug. 17, 1953, elevation, 2,083.07 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,580 acre-ft, Nov. 9, elevation, 2,100.77 ft; minimum contents, 3,250 acre-ft, Sept. 30, elevation, 2,096.19 ft.

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

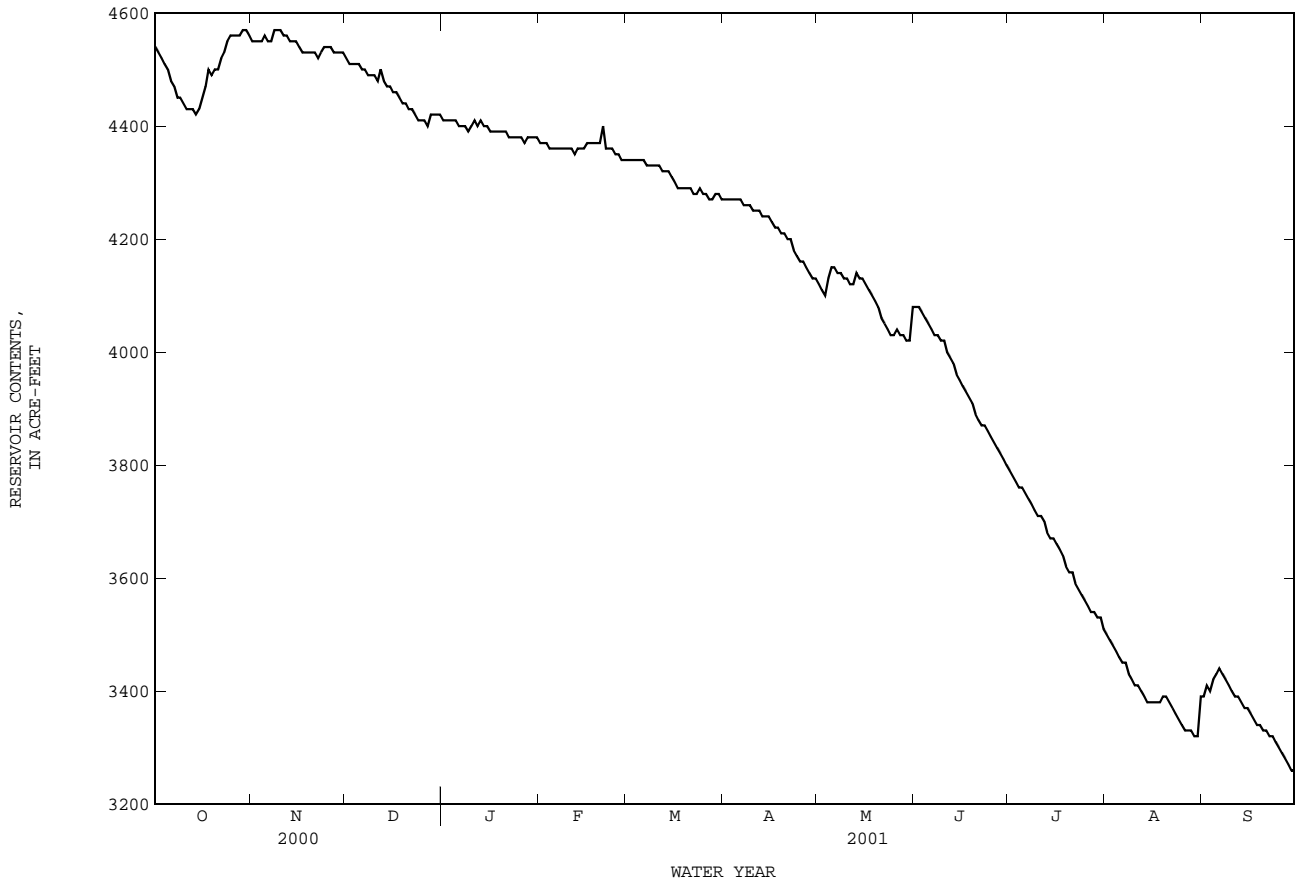
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4540	4550	4520	4410	4370	4340	4270	4120	4080	3790	3500	3390
2	4530	4550	4510	4410	4370	4340	4270	4110	4080	3780	3490	3410
3	4520	4550	4510	4410	4370	4340	4270	4100	4070	3770	3480	3400
4	4510	4550	4510	4410	4360	4340	4270	4130	4060	3760	3470	3420
5	4500	4560	4510	4410	4360	4340	4270	4150	4050	3760	3460	3430
6	4480	4550	4500	4400	4360	4340	4270	4150	4040	3750	3450	3440
7	4470	4550	4500	4400	4360	4330	4260	4140	4030	3740	3450	3430
8	4450	4570	4490	4400	4360	4330	4260	4140	4030	3730	3430	3420
9	4450	4570	4490	4390	4360	4330	4260	4130	4020	3720	3420	3410
10	4440	4570	4490	4400	4360	4330	4250	4130	4020	3710	3410	3400
11	4430	4560	4480	4410	4360	4330	4250	4120	4000	3710	3410	3390
12	4430	4560	e4500	4400	4350	4320	4250	4120	3990	3700	3400	3390
13	4430	4550	4480	4410	4360	4320	4240	4140	3980	3680	3390	3380
14	4420	4550	4470	4400	4360	4320	4240	4130	3960	3670	3380	3370
15	4430	4550	4470	4400	4360	4310	4240	4130	3950	3670	3380	3370
16	4450	4540	4460	4390	4370	4300	4230	4120	3940	3660	3380	3360
17	4470	4530	4460	4390	4370	4290	4220	4110	3930	3650	3380	3350
18	4500	4530	4450	4390	4370	4290	4220	4100	3920	3640	3380	3340
19	4490	4530	4440	4390	4370	4290	4210	4090	3910	3620	3390	3340
20	4500	4530	4440	4390	4370	4290	4210	4080	3890	3610	3390	3330
21	4500	4530	4430	4390	e4400	4290	4200	4060	3880	3610	3380	3330
22	4520	4520	4430	4380	4360	4280	4200	4050	3870	3590	3370	3320
23	4530	4530	4420	4380	4360	4280	4180	4040	3870	3580	3360	3320
24	4550	4540	4410	4380	4360	4290	4170	4030	3860	3570	3350	3310
25	4560	4540	4410	4380	4350	4280	4160	4030	3850	3560	3340	3300
26	4560	4540	4410	4380	4350	4280	4160	4040	3840	3550	3330	3290
27	4560	4530	e4400	4370	4340	4270	4150	4030	3830	3540	3330	3280
28	4560	4530	4420	4380	4340	4270	4140	4030	3820	3540	3330	3270
29	4570	4530	4420	4380	---	4280	4130	4020	3810	3530	3320	3260
30	4570	4530	4420	4380	---	4280	4130	4020	3800	3530	3320	3260
31	4560	---	4420	4380	---	4270	---	4080	---	3510	3390	---
MEAN	4500	4540	4460	4390	4360	4310	4220	4090	3950	3650	3400	3360
MAX	4570	4570	4520	4410	4400	4340	4270	4150	4080	3790	3500	3440
MIN	4420	4520	4400	4370	4340	4270	4130	4020	3800	3510	3320	3260
(+)	2100.73	2100.61	2100.27	2100.14	2100.04	2099.82	2099.34	2099.19	2098.22	2097.19	2096.71	2096.21
(@)	+20	-30	-110	-40	-40	-70	-140	-50	-280	-290	-120	-130
CAL YR 2000	MAX 7020	MIN 4400	(@) -2610									
WTR YR 2001	MAX 4570	MIN 3260	(@) -1280									

e Estimated

(+) Elevation, in feet, at end of month.

(@) Change in contents, in acre-feet.

08083200 Lake Sweetwater near Sweetwater, TX--Continued



BRAZOS RIVER BASIN

08083270 Lake Abilene near Buffalo Gap, TX

LOCATION.--Lat 32°14'04", long 99°53'19", Taylor County, Hydrologic Unit 12060102, 72 ft downstream from service outlet structure at Abilene Dam on Elm Creek, 0.5 mi upstream from Abilene State Park, 5.1 mi upstream from Buffalo Gap.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--Mar. 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 5,040 ft long. The dam was completed in May 1921 and impoundment began Aug. 1, 1921. Extensive repairs were made to the dam in 1941 and 1957. The dam and reservoir are owned and operated by the city of Abilene. The uncontrolled emergency spillway, 1,000 ft long across natural earth, is located at the left end of dam. The uncontrolled concrete ogee service spillway, 250 ft long, is located to the right of the emergency spillway at left end of dam. An earth ridge upstream of concrete ogee at approximate elevation 2,018 ft controls the flow to service spillway. A service outlet is provided for small releases downstream through a 24-inch diameter pipe. Water may be pumped from reservoir for city of Abilene municipal use. Conservation pool storage is 7,900 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	2,024.1
Crest of emergency spillway and earth ridge.....	2,018.3
Top of outlet structure.....	2,012.3
Crest of service spillway	2,009.7
Lowest gated outlet (invert).....	1,968.8

COOPERATION.--Capacity and area are from the area-capacity curve by Freese and Nichols Inc., dated 1948 and adjusted for the established elevation. The capacity table was provided by city of Abilene. Record of diversions may be obtained from city of Abilene.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,600 acre-ft, June 14, 1999, elevation, 2,001.15 ft; minimum contents, 6.8 acre-ft, May 2, 2001, elevation, 1,988.69 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 149 acre-ft, May 5, elevation, 1,993.71 ft; minimum contents, 6.8 acre-ft, May 2, elevation, 1,988.69 ft.

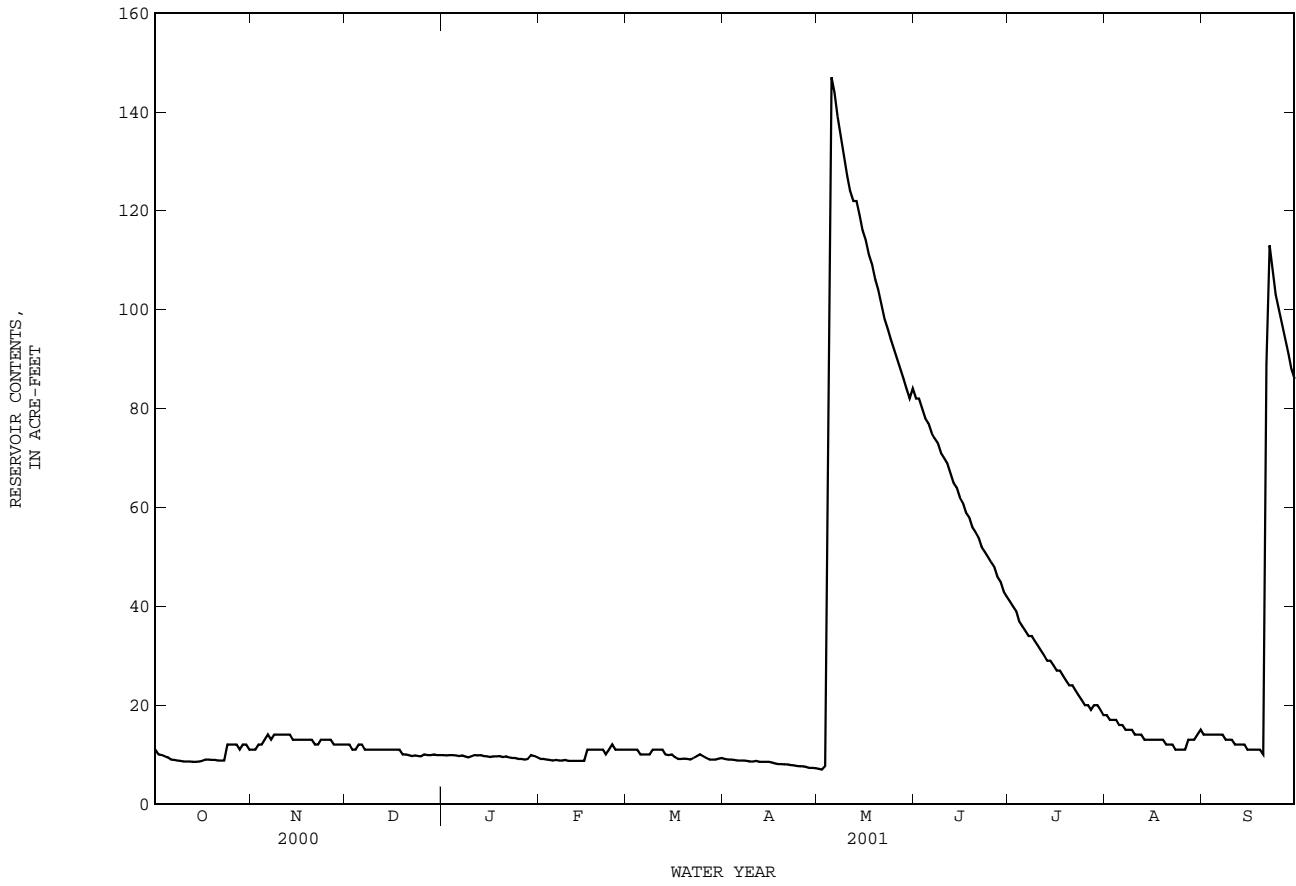
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	12	9.9	9.1	11	9.1	7.1	82	41	18	14
2	10	11	12	9.8	9.1	11	9.0	7.0	82	40	17	14
3	9.9	12	11	9.9	9.0	11	9.0	7.7	80	39	17	14
4	9.6	12	11	9.9	8.9	11	8.9	46	78	37	17	14
5	9.4	13	12	9.8	8.8	10	8.8	147	77	36	16	14
6	9.0	14	12	9.7	8.9	10	8.8	144	75	35	16	14
7	8.9	13	11	9.8	8.8	10	8.8	139	74	34	15	14
8	8.8	14	11	9.6	8.8	10	8.7	135	73	34	15	13
9	8.7	14	11	9.4	8.9	11	8.6	131	71	33	15	13
10	8.6	14	11	9.6	8.7	11	8.6	127	70	32	14	13
11	8.6	14	11	9.9	8.7	11	8.7	124	69	31	14	12
12	8.6	14	11	9.8	8.7	11	8.5	122	67	30	14	12
13	8.5	14	11	9.9	8.7	10	8.5	122	65	29	13	12
14	8.5	13	11	9.7	8.7	9.9	8.5	119	64	29	13	12
15	8.6	13	11	9.6	8.7	10	8.5	116	62	28	13	11
16	8.7	13	11	9.5	11	9.4	8.4	114	61	27	13	11
17	9.0	13	11	9.6	11	9.1	8.2	111	59	27	13	11
18	9.0	13	11	9.6	11	9.1	8.1	109	58	26	13	11
19	8.9	13	10	9.7	11	9.2	8.1	106	56	25	13	11
20	8.9	13	10	9.5	11	9.1	8.0	104	55	24	12	10
21	8.8	12	9.9	9.6	11	9.0	8.0	101	54	24	12	89
22	8.8	12	9.7	9.4	10	9.3	7.9	98	52	23	12	113
23	8.8	13	9.8	9.3	11	9.6	7.8	96	51	22	11	108
24	12	13	9.7	9.3	12	10	7.7	94	50	21	11	103
25	12	13	9.6	9.1	11	9.6	7.6	92	49	20	11	100
26	12	13	10	9.1	11	9.3	7.6	90	48	20	11	97
27	12	12	9.9	9.0	11	9.0	7.5	88	46	19	13	94
28	11	12	9.9	9.1	11	9.0	7.3	86	45	20	13	91
29	12	12	10	9.9	---	9.0	7.3	84	43	20	13	88
30	12	12	9.9	9.7	---	9.2	7.2	82	42	19	14	86
31	11	---	9.9	9.4	---	9.3	---	84	---	18	15	---
MEAN	9.7	13	11	9.6	9.8	9.9	8.3	98	62	28	14	41
MAX	12	14	12	9.9	12	11	9.1	147	82	41	18	113
MIN	8.5	11	9.6	9.0	8.7	9.0	7.2	7.0	42	18	11	10
(+)	1989.43	1989.48	1989.31	1989.27	1989.38	1989.26	1988.78	1992.34	1991.07	1989.99	1989.71	1992.39
(@)	0	+1	-2.1	-0.5	+1.6	-1.7	-2.1	+76.8	-42	-24	-3	+71

CAL YR 2000 MAX 235 MIN 8.5 (@) -226.1
WTR YR 2001 MAX 147 MIN 7.0 (@) +75.0

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

08083270 Lake Abilene near Buffalo Gap, TX--Continued



BRAZOS RIVER BASIN

08083420 Cat Claw Creek at Abilene, TX

LOCATION.--Lat 32°28'31", long 99°44'56", Taylor County, Hydrologic Unit 12060102, on left bank in Sears Park 320 ft downstream from bridge on Ambler Street in Abilene and 1.8 mi upstream from mouth.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--Oct. 1970 to Sept. 1979 (daily mean discharge), May 1993 to Sept. 2000 (periodic discharge measurements), June 2001 to current year (daily mean discharge).

GAGE.--Water-stage recorder. Datum of gage is 1,682.32 ft above sea level (U.S. Army Corps of Engineers benchmark). Oct. 1970 to Sept. 1979, water-stage recorder at site 50 ft downstream and 250 ft right at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow many days each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Oct. 17, 2000 reached a stage of 9.50 ft, present site and datum from floodmark, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	52	.00	.00	.22
2	---	---	---	---	---	---	---	---	2.1	.00	.00	.00
3	---	---	---	---	---	---	---	---	.03	.00	.00	46
4	---	---	---	---	---	---	---	---	.00	.00	.00	13
5	---	---	---	---	---	---	---	---	.00	.00	.00	45
6	---	---	---	---	---	---	---	---	.00	.00	.00	4.1
7	---	---	---	---	---	---	---	---	.00	.00	.00	.06
8	---	---	---	---	---	---	---	---	.00	.00	.02	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.00	.00	.00
11	---	---	---	---	---	---	---	---	.00	.00	.00	.00
12	---	---	---	---	---	---	---	---	.12	.00	.00	.00
13	---	---	---	---	---	---	---	---	5.1	.00	.00	.00
14	---	---	---	---	---	---	---	---	.01	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	25	.00
19	---	---	---	---	---	---	---	---	.00	.00	5.8	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	26
21	---	---	---	---	---	---	---	---	.00	.00	.00	65
22	---	---	---	---	---	---	---	---	.00	.00	.00	1.0
23	---	---	---	---	---	---	---	---	12	.00	.00	.00
24	---	---	---	---	---	---	---	---	.61	.00	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	19	.00
28	---	---	---	---	---	---	---	---	.00	.00	34	.00
29	---	---	---	---	---	---	---	---	.00	1.3	6.7	.00
30	---	---	---	---	---	---	---	---	.75	.11	.04	.00
31	---	---	---	---	---	---	---	---	---	.00	1.7	---
MEAN	---	---	---	---	---	---	---	---	2.42	.045	2.98	6.68
MAX	---	---	---	---	---	---	---	---	52	1.3	34	65
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001h, BY WATER YEAR (WY)

	4.02	.82	.28	.52	1.01	2.83	1.86	1.74	1.59	1.95	5.30	7.53
MEAN	4.02	.82	.28	.52	1.01	2.83	1.86	1.74	1.59	1.95	5.30	7.53
MAX	9.91	2.56	1.48	3.24	3.01	14.2	5.13	3.44	2.82	5.88	17.9	32.2
(WY)	1973	1975	1972	1973	1979	1979	1976	1975	1978	1975	1978	1974
MIN	.16	.000	.000	.000	.000	.000	.35	.006	.72	.045	.11	.000
(WY)	1971	1971	1973	1972	1976	1971	1975	1977	1976	2001	1973	1979

SUMMARY STATISTICS

FOR 2001 WATER YEAR

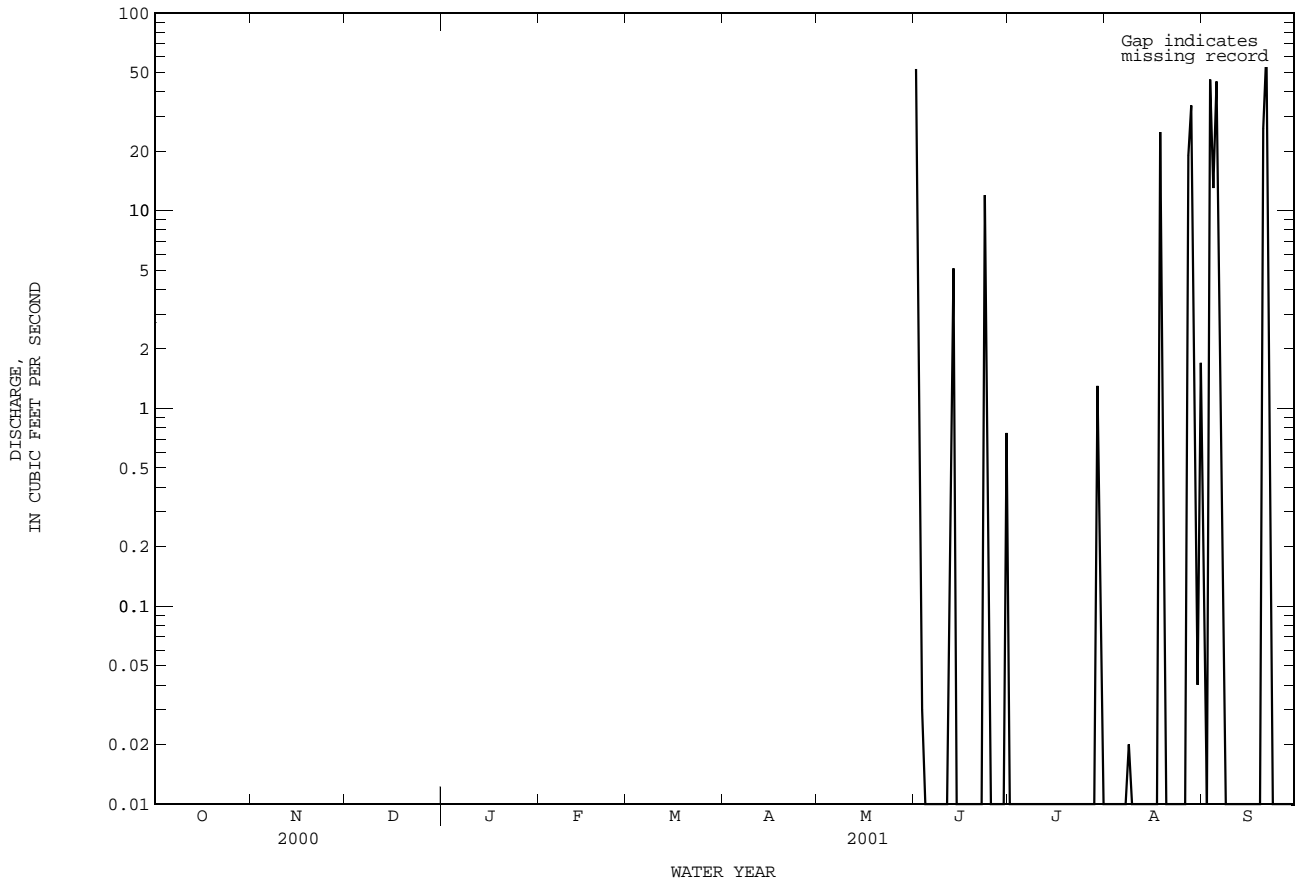
WATER YEARS 1971 - 2001h

ANNUAL MEAN			2.50
HIGHEST ANNUAL MEAN			4.07
LOWEST ANNUAL MEAN			1.70
HIGHEST DAILY MEAN	65	Sep 21	480
LOWEST DAILY MEAN	.00	Jun 4	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 4	.00
MAXIMUM PEAK FLOW	434	Sep 20	c1310
MAXIMUM PEAK STAGE	3.60	Sep 20	6.60
10 PERCENT EXCEEDS	5.6		2.1
50 PERCENT EXCEEDS	.00		.00
90 PERCENT EXCEEDS	.00		.00

h See PERIOD OF RECORD paragraph.

c From rating curve extended above 692 ft³/s.

08083420 Cat Claw Creek at Abilene, TX--Continued



BRAZOS RIVER BASIN

08083480 Cedar Creek at IH 20 at Abilene, TX

LOCATION.--Lat 32°29'58", long 99°42'57", Taylor County, Hydrologic Unit 12060102, on right bank at upstream side of the south IH 20 service road bridge at Abilene, 2.8 mi downstream from Lytle Creek, 3.3 mi upstream from Rainy Creek, 6.7 mi downstream from Buttonwillow Creek, 7.2 mi upstream from mouth, and 8.8 mi downstream from Kirby Lake.

DRAINAGE AREA.--136 mi².

PERIOD OF RECORD.--May 1993 to Aug. 2000 (periodic discharge measurements), June 2001 to current year (daily mean discharge).

GAGE.--Water-stage recorder. Elevation of gage is 1,640 ft above sea level, from topographic map. Satellite telemeter at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 342 ft³/s, Sept. 5, 2001, gage height, 4.32 ft; no flow for many days.

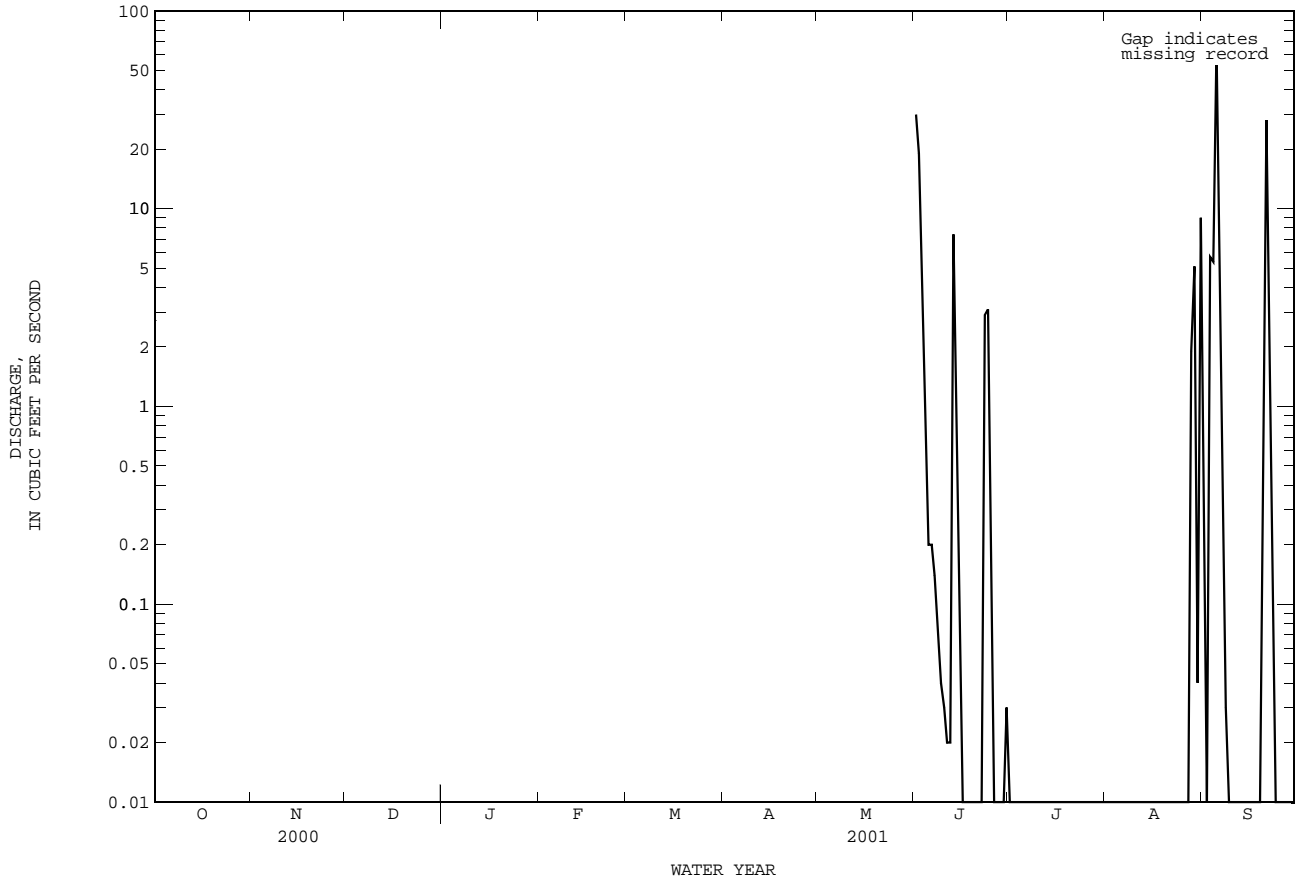
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Oct. 17, 2000 reached a stage of 7.72 ft, from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 342 ft³/s, Sept. 5, gage height, 4.32 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	30	.01	.00	.42
2	---	---	---	---	---	---	---	---	19	.00	.00	.00
3	---	---	---	---	---	---	---	---	2.9	.00	.00	5.7
4	---	---	---	---	---	---	---	---	.61	.00	.00	5.4
5	---	---	---	---	---	---	---	---	.20	.00	.00	67
6	---	---	---	---	---	---	---	---	.20	.00	.00	13
7	---	---	---	---	---	---	---	---	.14	.00	.00	.39
8	---	---	---	---	---	---	---	---	.07	.00	.00	.03
9	---	---	---	---	---	---	---	---	.04	.00	.00	.00
10	---	---	---	---	---	---	---	---	.03	.00	.00	.00
11	---	---	---	---	---	---	---	---	.02	.00	.00	.00
12	---	---	---	---	---	---	---	---	.02	.00	.00	.00
13	---	---	---	---	---	---	---	---	7.4	.00	.00	.00
14	---	---	---	---	---	---	---	---	.25	.00	.00	.00
15	---	---	---	---	---	---	---	---	.03	.00	.00	.00
16	---	---	---	---	---	---	---	---	.01	.00	.00	.00
17	---	---	---	---	---	---	---	---	.01	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	1.2
21	---	---	---	---	---	---	---	---	.00	.00	.00	28
22	---	---	---	---	---	---	---	---	.00	.00	.00	1.3
23	---	---	---	---	---	---	---	---	2.9	.00	.00	.19
24	---	---	---	---	---	---	---	---	3.1	.00	.00	.01
25	---	---	---	---	---	---	---	---	.07	.00	.00	.00
26	---	---	---	---	---	---	---	---	.01	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	1.9	.00
29	---	---	---	---	---	---	---	---	.00	.00	5.1	.00
30	---	---	---	---	---	---	---	---	.03	.00	.04	.00
31	---	---	---	---	---	---	---	---	---	.00	9.0	---
MEAN	---	---	---	---	---	---	---	---	2.23	.000	.52	4.09
MAX	---	---	---	---	---	---	---	---	30	.01	9.0	67
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00

08083480 Cedar Creek at IH 20 at Abilene, TX--Continued



BRAZOS RIVER BASIN

08083500 Fort Phantom Hill Reservoir near Nugent, TX

LOCATION.--Lat 32°35'46", long 99°40'49", Jones County, Hydrologic Unit 12060102, at city of Abilene primary pump station on right bank, 1.4 mi upstream from dam on Elm Creek, 5.8 mi upstream from mouth, and 6.9 mi south of Nugent.

DRAINAGE AREA.--470 mi².

PERIOD OF RECORD.--July 1940 to Sept. 1965 (end of month contents only), Oct. 1965 to Sept. 1986, Mar. 1999 to current year. Water-quality records.--Chemical data: Apr. 1964 to Jan. 1965, Sept. 1970 to Apr. 1984.

REVISED RECORDS.--WSP 1562: 1953-57 (figures of end of month contents). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Oct. 1986, nonrecording gage at same site at datum 0.78 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by a rock-faced earthfill dam about 3,740 ft long. The dam was completed and storage began in Oct. 1938. The uncontrolled service spillway is a cut channel through natural ground with a concrete ogee weir located 0.7 mi from right end of dam. The service outlet works consists of a concrete tower with a 4.0 by 7.0 ft conduit. The service tower contains five gated openings at various elevations. The dam and reservoir are owned by the city of Abilene and were built to impound water for municipal use. Since July 1974, West Texas Utility Company has operated a steam generating powerplant on the reservoir. Conservation pool storage is 70,030 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,650.0
Crest of spillway.....	1,635.9
Highest gated outlet (invert).....	1,608.8
Lowest gated outlet (invert).....	1,582.4

COOPERATION.--The capacity table dated Feb. 23, 1994, furnished by the city of Abilene, was based on a volumetric survey of Nov. 1993 by Texas Water Development Board. Records of diversions may be obtained from the city of Abilene.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 89,910 acre-ft, May 25, 1957, elevation, 1,639.50 ft; minimum observed, 19,040 acre-ft, Apr. 23, 24, 25, 1953, elevation, 1,615.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 41,860 acre-ft, May 7, elevation, 1,627.38 ft; minimum contents, 21,790 acre-ft, Oct. 11, 12, 13, 14, elevation, 1,618.56 ft.

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

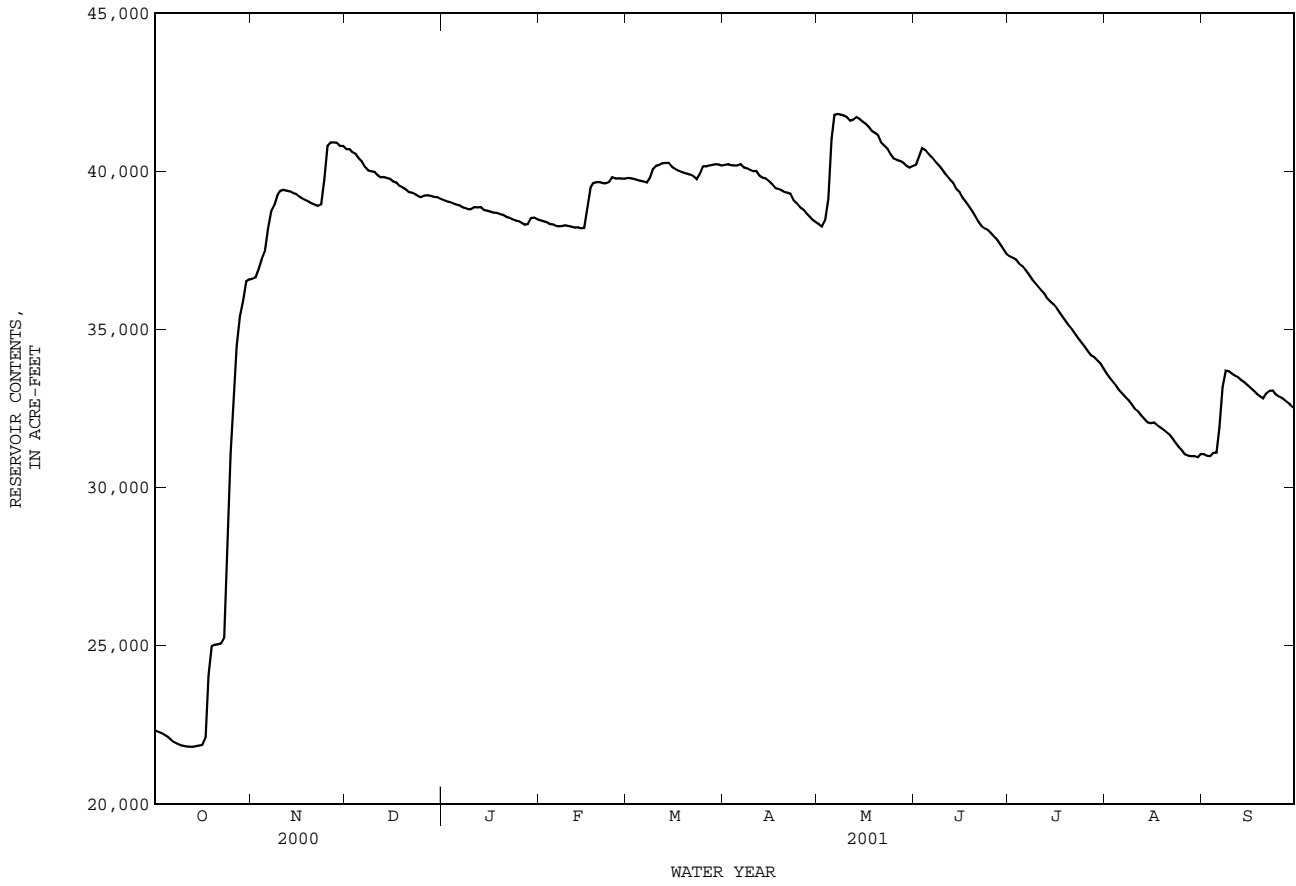
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22310	36600	e40700	39090	38450	39790	40200	38320	40200	37310	33600	31060
2	22270	36640	e40700	39050	38420	39780	40220	38250	40450	37260	33460	31000
3	22230	36910	e40600	39030	38390	39760	40190	38450	40730	37210	33330	30990
4	22180	37240	40550	38990	38330	39730	40180	39130	40670	37090	33210	31100
5	22120	37460	e40400	38950	38320	39700	40180	41020	40550	37000	33080	31110
6	22030	38190	e40300	38930	38270	39680	40220	41780	40440	36880	32970	31890
7	21950	38730	40140	38870	38260	39640	40120	41810	40330	36750	32860	33180
8	21900	38930	40030	38840	38270	39780	40090	41790	40220	36600	32760	33700
9	21860	39250	40000	38800	38290	40070	40040	41760	40110	36480	32620	33680
10	21840	39380	39980	38810	38270	40170	40000	41700	39970	36360	32490	33600
11	21820	39410	39870	38870	38250	40200	40010	41600	39850	36240	32410	33530
12	21810	39380	39810	38860	38220	40250	39860	41630	39730	36130	32280	33480
13	21810	39360	39820	38870	38230	40260	39800	41710	39630	35980	32170	33390
14	21830	39310	39790	38780	38200	40260	39780	41650	39430	35880	32070	33320
15	21850	39280	39760	38750	38210	40140	39700	41570	39330	35790	32040	33240
16	21870	39200	39680	38720	38880	40070	39590	41500	39160	35670	32060	33150
17	22100	39130	39650	38690	39480	40020	39470	41400	39030	35520	31990	33060
18	24060	39080	39530	38680	39620	39980	39440	41260	38890	35390	31910	32960
19	24980	39040	39480	38640	39660	39950	39400	41200	38730	35240	31840	32890
20	25040	38980	39420	38620	39660	39920	39340	41130	38570	35100	31760	32820
21	25050	38940	39340	38560	39630	39890	39320	40900	38410	34980	31680	32980
22	25080	38910	39320	38530	39610	39840	39290	40800	38270	34850	31550	33060
23	25250	38950	39270	38480	39660	39750	39080	40700	38190	34710	31420	33070
24	27670	39750	39210	38440	39810	39920	38980	40540	38140	34580	31290	32950
25	31060	40810	39180	38420	39770	40160	38860	40390	38050	34440	31180	32880
26	32690	40910	39230	38370	39780	40150	38790	40350	37940	34300	31050	32830
27	34480	40910	39240	38310	39770	40180	38670	40320	37830	34180	31000	32750
28	35410	e40900	39220	38330	39770	40200	38570	40260	37680	34120	30990	32670
29	35900	e40800	39190	38520	---	40220	38460	40170	37530	34020	30990	32580
30	36520	e40800	39180	38530	---	40210	38390	40110	37390	33920	30950	32500
31	36580	---	39130	38480	---	40180	---	40160	---	33770	31070	---
MEAN	25600	39110	39730	38700	38910	40000	39540	40750	39180	35600	32070	32710
MAX	36580	40910	40700	39090	39810	40260	40220	41810	40730	37310	33600	33700
MIN	21810	36600	39130	38310	38200	39640	38390	38250	37390	33770	30950	30990
(+)	1625.42	1627.00	1626.39	1626.15	1626.62	1626.78	1626.11	1626.77	1625.73	1624.27	1623.11	1623.74
(@)	+14270	+4220	-1670	-650	+1290	+410	-1790	+1770	-2770	-3620	-2700	+1430
CAL YR 2000	MAX 40910	MIN 20380	(@) +18750									
WTR YR 2001	MAX 41810	MIN 21810	(@) +10190									

e Estimated

(+) Elevation, in feet, at end of month.

(@) Change in contents, in acre-feet.

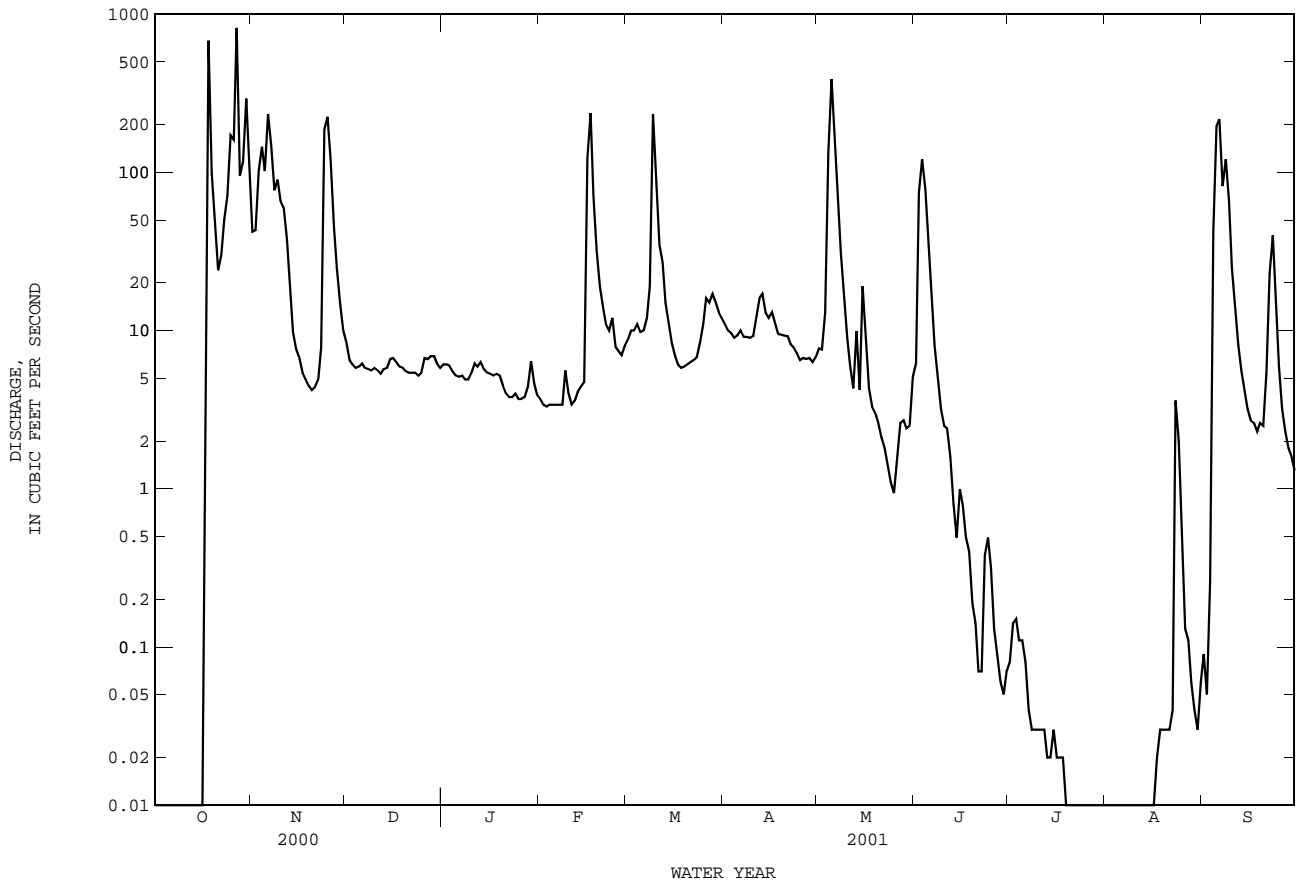
08083500 Fort Phantom Hill Reservoir near Nugent, TX--Continued



08084000 Clear Fork Brazos River at Nugent, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1930 - 2001z	
ANNUAL TOTAL	11332.39		8741.22		95.9	
ANNUAL MEAN	31.0		23.9		713	
HIGHEST ANNUAL MEAN					1932	
LOWEST ANNUAL MEAN					6.45	
HIGHEST DAILY MEAN	1800	Mar 26	818	Oct 27	30800	Sep 8 1932
LOWEST DAILY MEAN	.00	Aug 17	.00	Oct 1	.00	Jul 27 1930
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 17	.00	Oct 1	.00	Jul 27 1930
MAXIMUM PEAK FLOW			1360	Oct 18	c47000	Sep 8 1932
MAXIMUM PEAK STAGE			6.57	Oct 18	p27.05	Sep 8 1932
ANNUAL RUNOFF (AC-FT)	22480		17340		69460	
10 PERCENT EXCEEDS	45		68		118	
50 PERCENT EXCEEDS	.21		5.5		12	
90 PERCENT EXCEEDS	.00		.01		.50	

e Estimated
z Period of regulated streamflow.
c From rating curve extended above 25,000 ft³/s.
p Observed.



BRAZOS RIVER BASIN

08084500 Lake Stamford near Haskell, TX

LOCATION.--Lat 33°03'45", long 99°34'45", Haskell County, Hydrologic Unit 12060103, on right bank at city of Stamford pumping station at Lake Stamford on Paint Creek, 0.9 mi upstream from right end of dam, 2.3 mi upstream from California Creek, 10.0 mi southeast of Haskell, and 22.3 mi upstream from mouth.

DRAINAGE AREA.--368 mi².

PERIOD OF RECORD.--July 1953 to Sept. 1986, Feb. 1999 to current year.
Water-quality records.--Chemical data: Aug. 1965, Mar. 1970 to July 1984.

REVISED RECORDS.--WDR TX-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Oct. 1986, nonrecording gage at site on left bank, 1.0 mi upstream from dam at datum 2.77 ft lower. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a rolled earthfill dam 3,600 ft long. The dam was completed in Mar. 1953, and deliberate impoundment began in June 1953. The right spillway is an uncontrolled natural channel located near the right end of dam. The left spillway is an uncontrolled channel excavated through natural ground, 169 ft wide, located 900 ft to left of left end of dam. The service outlet is a controlled 24-inch diameter concrete pipe that is used for low-flow releases. Capacity table in use when station was discontinued in Sept. 1986 was based on sedimentation survey of 1966. The dam is owned by the city of Stamford. Water is diverted for municipal supply for the cities of Stamford and Hamlin. Conservation pool storage is 51,570 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,436.8
Crest of emergency spillway.....	1,425.8
Crest of service spillway.....	1,417.0
Lowest gated outlet (invert).....	1,382.8

COOPERATION.--The capacity table is based on a Mar. 1999 volumetric survey furnished by Texas Water Development Board. Records of diversions may be obtained from the city of Stamford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 103,700 acre-ft, Aug. 5, 1978, elevation, 1,425.0 ft; minimum contents, 6,740 acre-ft, Oct. 15, 2000, elevation, 1,400.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,260 acre-ft, May 6, elevation, 1,407.66 ft; minimum contents, 6,740 acre-ft, Oct. 15, elevation, 1,400.98 ft.

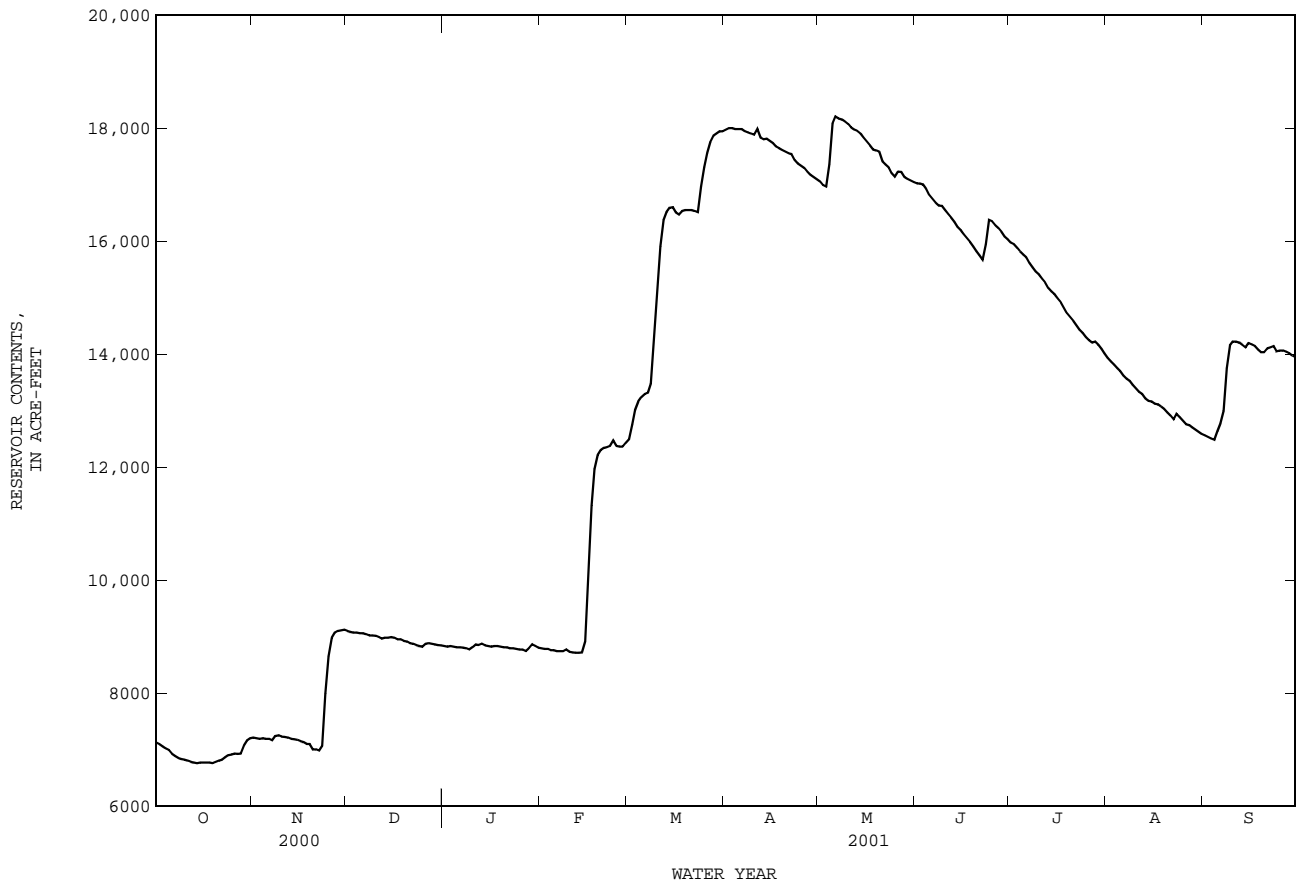
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7120	7210	9100	8830	8790	12490	17970	17050	17020	15970	13930	12560
2	7090	7200	9080	8820	8780	12750	18000	16990	17020	15940	13870	12530
3	7050	7190	9070	8830	8780	13010	18000	16960	17000	15880	13810	12500
4	7020	7200	9070	8820	8760	13160	17980	17360	16920	15820	13750	12480
5	6990	7190	9060	8810	8760	13240	17980	18080	16810	15760	13700	12640
6	6920	7190	9060	8810	8740	13290	17980	18200	16740	15710	13620	12770
7	6880	7160	9040	8800	8740	13310	17940	18170	16680	15610	13560	12990
8	6850	7240	9020	8790	8740	13470	17920	18150	16630	15530	13520	13750
9	6830	7250	9020	8770	8770	14210	17900	18120	16620	15460	13450	14150
10	6820	7230	9010	8810	8730	15090	17880	18070	16550	15410	13390	14220
11	6800	7220	8990	8860	8720	15910	17980	18010	16480	15330	13330	14220
12	6780	7210	8960	8850	8710	16370	17830	17970	16410	15260	13290	14200
13	6770	7190	8980	8870	8710	16510	17800	17950	16340	15170	13210	14160
14	6760	7180	8980	8840	8720	16590	17810	17900	16250	15110	13170	14120
15	6770	7170	8990	8830	8910	16600	17770	17830	16190	15060	13160	14190
16	6770	7150	8980	8820	10140	16500	17730	17760	16120	14980	13120	14170
17	6770	7130	8950	8830	11320	16470	17670	17690	16050	14910	13110	14140
18	6770	e7100	8950	8830	11960	16530	17640	17620	15980	14820	13070	14080
19	6760	e7100	8920	8820	12210	16550	17610	17600	15900	14720	13030	14030
20	6780	e7000	8910	8810	12300	16550	17580	17580	15820	14650	12970	14030
21	6800	e7000	8880	8810	12340	16550	17550	17410	15750	14580	12910	14100
22	6820	6980	8870	8790	12350	16530	17540	17350	15670	14510	12840	14120
23	6860	7060	8850	8790	12370	16510	17430	17300	15940	14430	12940	14140
24	6900	7990	8830	8780	12470	16960	17370	17200	16370	14370	12880	14050
25	6910	8650	8820	8770	12370	17310	17330	17140	16350	14300	12820	14060
26	6930	8970	8870	8770	12360	17550	17290	17230	16280	14240	12760	14060
27	6920	9070	8880	8740	12360	17750	17230	17220	16230	14200	12740	14040
28	6930	9100	8870	8790	12430	17860	17170	17130	16160	14220	12700	14010
29	7070	9110	8860	8860	---	17900	17130	17100	16080	14160	12660	13970
30	7160	9120	8850	8830	---	17940	17090	17070	16030	14090	12620	13940
31	7200	---	8840	8800	---	17940	---	17040	---	14010	12580	---
MEAN	6900	7550	8950	8810	10300	15790	17670	17560	16350	14970	13180	13750
MAX	7200	9120	9100	8870	12470	17940	18000	18200	17020	15970	13930	14220
MIN	6760	6980	8820	8740	8710	12490	17090	16960	15670	14010	12580	12480
(+)	1401.35	1402.80	1402.60	1402.57	1404.88	1407.53	1407.18	1407.16	1406.71	1405.73	1404.97	1405.69
(@)	+80	+1920	-280	-40	+3630	+5510	-850	-50	-1010	-2020	-1430	+1360
CAL YR 2000	MAX 11740	MIN 6760	(@) -2920									
WTR YR 2001	MAX 18200	MIN 6760	(@) +6820									

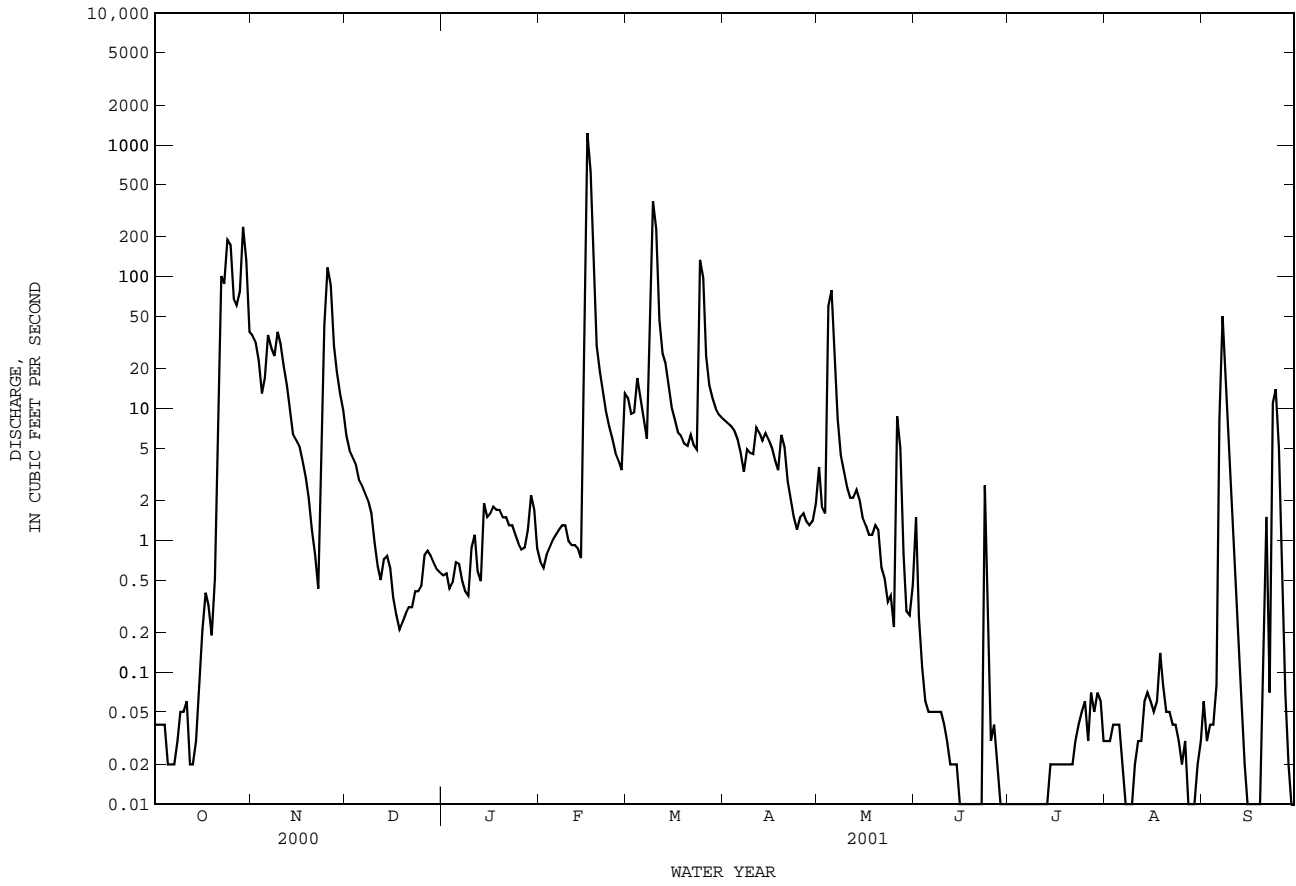
e Estimated

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

08084500 Lake Stamford near Haskell, TX--Continued



08084800 California Creek near Stamford, TX--Continued



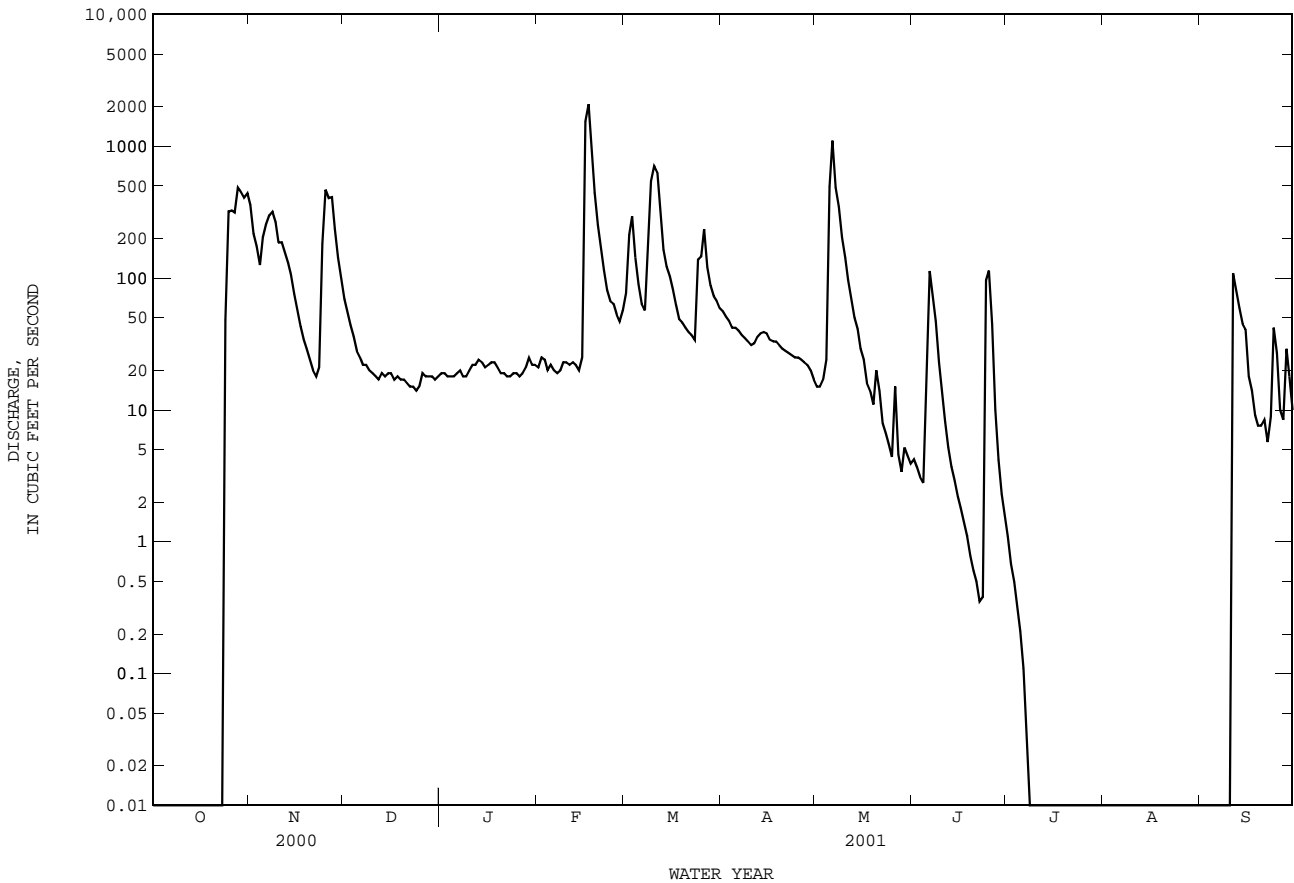
08085500 Clear Fork Brazos River at Fort Griffin, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001z	
ANNUAL TOTAL	19889.34		26186.68		201	
ANNUAL MEAN	54.3		71.7		1177	
HIGHEST ANNUAL MEAN					1952	
LOWEST ANNUAL MEAN					8.78	
HIGHEST DAILY MEAN	1820	Jul 2	2080	Feb 17	72800	Aug 4 1978
LOWEST DAILY MEAN	.00	May 15	.00	Oct 1	.00	May 11 1939
ANNUAL SEVEN-DAY MINIMUM	.00	May 15	.00	Oct 1	.00	Sep 12 1939
MAXIMUM PEAK FLOW			3140	Feb 16	c149000	Aug 4 1978
MAXIMUM PEAK STAGE			a10.46	Feb 16	a38.88	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	39450		51940		145900	
10 PERCENT EXCEEDS	147		186		269	
50 PERCENT EXCEEDS	8.9		19		24	
90 PERCENT EXCEEDS	.00		.00		.00	

z Period of regulated streamflow.

c From rating curve extended above 31,500 ft³/s on basis of contracted opening measurement of 149,000 ft³/s.

a From floodmark.



BRAZOS RIVER BASIN

08086212 Hubbard Creek below Albany, TX

LOCATION.--Lat 32°43'58", long 99°08'25", Shackelford County, Hydrologic Unit 12060105, on left bank 0.5 mi downstream from Salt Prong Hubbard Creek, 2.8 mi upstream from Newcomb Creek, 4.5 mi upstream from U.S. Highway 180, 9.1 mi east of Albany, 22.6 mi upstream from Hubbard Creek Reservoir, and 35.2 mi upstream from mouth.

DRAINAGE AREA.--613 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1966 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,184.99 ft above sea level. Prior to June 12, 1968, water-stage recorder at site 2.1 mi downstream at datum 7.63 ft lower. Satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	38	.40	.01	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	12	.31	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	5.6	.14	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	3.5	.18	.06	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	2.4	.23	.76	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	2.9	.25	1.0	.00	.00	.00	e.00
7	.00	.00	.00	.00	.00	2.6	.36	.97	.00	.00	.00	e.00
8	.00	.00	.00	.00	.00	8.9	.47	.64	.00	.00	.00	e.10
9	.00	.00	.00	.00	.00	58	.61	.60	.00	.00	.00	e5.0
10	.00	.00	.00	.00	.00	64	.55	.58	.00	.00	.00	e3.0
11	.00	.00	.00	.00	.00	30	2.1	.39	.00	.00	.00	1.2
12	.00	.00	.00	.00	.00	17	4.8	.26	.00	.00	.00	.60
13	.00	.00	.00	.00	.00	10	8.4	.17	.00	.00	.00	.38
14	.00	.00	.00	.00	.00	5.8	2.6	.08	.00	.00	.00	.29
15	.00	.00	.00	.00	.45	4.4	1.3	.06	.00	.00	.00	.38
16	.00	.00	.00	.00	1140	2.3	.83	.02	.00	.00	.00	.21
17	.00	.00	.00	.00	175	1.7	.53	.01	.00	.00	.00	.09
18	.00	.00	.00	.00	41	1.5	.40	.01	.00	.00	.00	.03
19	.00	.00	.00	.00	17	1.4	.32	.00	.00	.00	.00	.02
20	.00	.00	.00	.00	9.1	1.4	.46	.00	.00	.00	.00	.07
21	.00	.00	.00	.00	5.9	1.3	.84	.00	.00	.00	.00	1.4
22	.00	.00	.00	.00	4.7	1.0	.97	.00	.00	.00	.00	.86
23	.00	.00	.00	.00	4.3	.73	.93	.00	.00	.00	.00	1.7
24	.00	.00	.00	.00	5.1	.88	.59	.00	.00	.00	.00	1.1
25	.00	.00	.00	.00	29	.61	.39	.00	.00	.00	.00	.76
26	.00	.00	.00	.00	15	.53	.29	.00	.00	.00	.00	.64
27	.00	.00	.00	.00	15	.63	.15	.00	.00	.00	.00	.25
28	.00	.00	.00	.00	24	.61	.08	.00	.00	.00	.00	.16
29	.00	.00	.00	.00	---	.58	.04	.00	.00	.00	.00	.12
30	.00	.00	.00	.00	---	.53	.02	.00	.00	.00	.00	.05
31	.00	---	.00	.00	---	.50	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	1485.55	281.30	29.54	5.62	0.00	0.00	0.00	18.41
MEAN	.000	.000	.000	.000	53.1	9.07	.98	.18	.000	.000	.000	.61
MAX	.00	.00	.00	.00	1140	64	8.4	1.0	.00	.00	.00	5.0
MIN	.00	.00	.00	.00	.00	.50	.02	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	2950	558	59	11	.00	.00	.00	37
CFSM	.00	.00	.00	.00	.09	.01	.00	.00	.00	.00	.00	.00
IN.	.00	.00	.00	.00	.09	.02	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

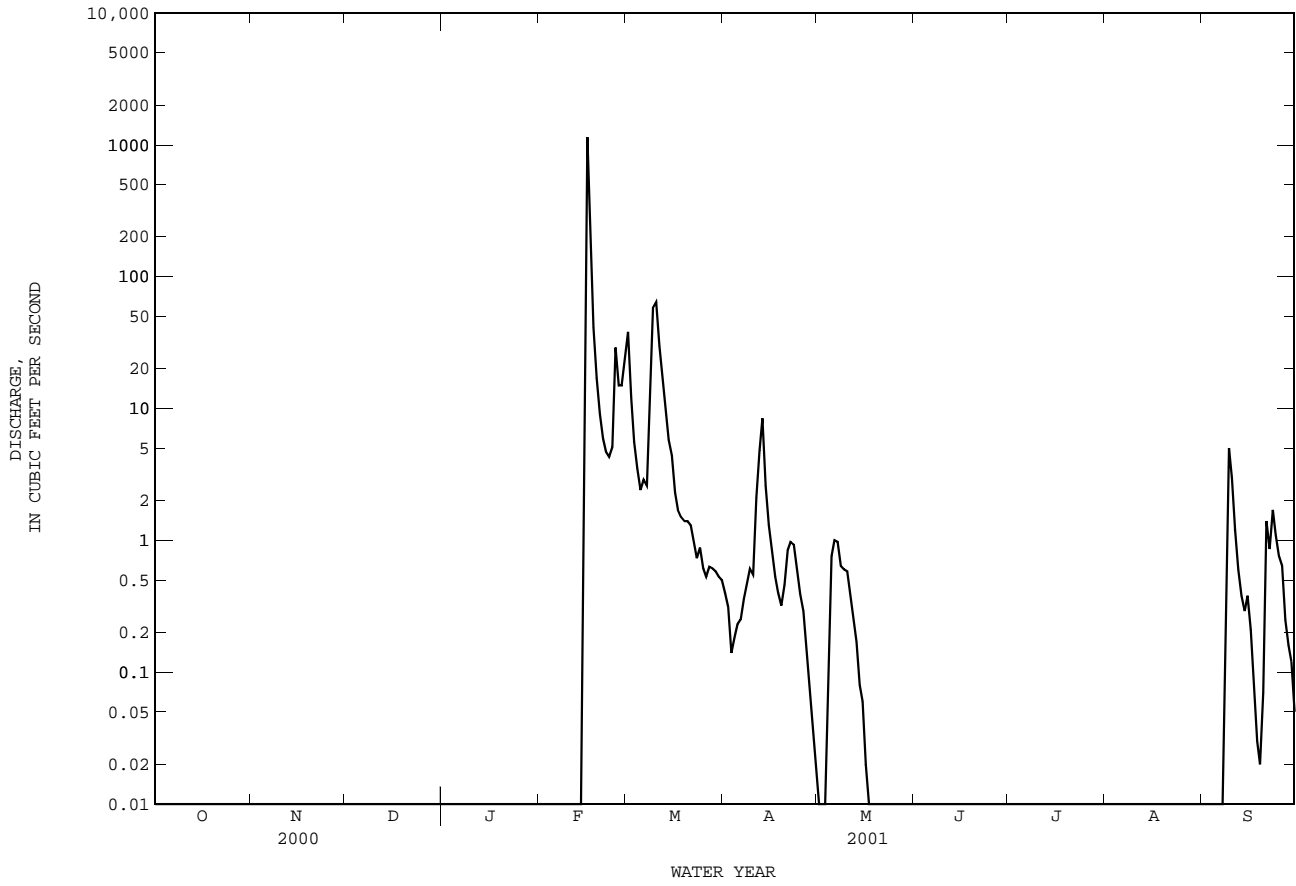
	MEAN	15.6	45.4	55.7	77.8	48.8	50.8	126	61.3	6.27	108	71.1
MAX	1483	228	1161	1544	1532	284	502	906	628	46.1	3365	1170
(WY)	1982	1975	1992	1968	1992	1998	1968	1969	1997	1992	1978	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1971	1971	1969	1971	1971	1971	1984	1984	1974	1968	1968

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1967 - 2001

ANNUAL TOTAL	720.09		1820.42		62.9		1992	
ANNUAL MEAN	1.97		4.99		303		1984	
HIGHEST ANNUAL MEAN					.49		1978	
LOWEST ANNUAL MEAN							1967	
HIGHEST DAILY MEAN	208	Jun 4	1140	Feb 16	94700	Aug 4	1978	
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Apr 5	1967	
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Apr 24	1967	
MAXIMUM PEAK FLOW			2120	Feb 16	c330000	Aug 4	1978	
MAXIMUM PEAK STAGE			a9.84	Feb 16	a41.41	Aug 4	1978	
ANNUAL RUNOFF (AC-FT)	1430		3610		45540			
ANNUAL RUNOFF (CFSM)	.003		.008		.10			
ANNUAL RUNOFF (INCHES)	.04		.11		1.39			
10 PERCENT EXCEEDS	2.5		1.7		44			
50 PERCENT EXCEEDS	.00		.00		1.1			
90 PERCENT EXCEEDS	.00		.00		.00			

e Estimated
a From floodmark.
c From rating curve extended above 110 ft³/s on basis of step-backwater method and computation of flow-through-culverts, contracted-openings, and flow-over-road determination of 330,000 ft³/s at site 4.5 mi downstream.

08086212 Hubbard Creek below Albany, TX--Continued



BRAZOS RIVER BASIN

08086212 Hubbard Creek below Albany, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1966 to current year.
 PESTICIDE DATA: Nov. 1972.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1966 to Nov. 1970 (local observer), Dec. 1970 to current year.
 WATER TEMPERATURE: Oct. 1966 to July 1980 (local observer), Mar. 1982 to current year.

INSTRUMENTATION.--Specific conductance recorder since Dec. 1970. Water-temperature recorder since Mar. 1982.

REMARKS.--No estimated daily specific conductance or water temperature. Records good. Interruptions in the record was due to no flow. No flow Oct. 1 to Feb. 14, May 2, 3, May 19 to Sept. 7. 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. The computation of the selected constituent loads might include estimated discharge or specific conductance data. New regression equations were developed based on data from water years 1992 to 2001. The standard error of estimate for dissolved solids is 3%, chloride is 15%, sulfate is 35% 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, 21,200 microsiemens/cm, Feb. 15, 21, 1978; minimum recorded, 144 microsiemens/cm, Sept. 8, 2001; minimum estimated, 129 microsiemens/cm, Aug. 4, 1978.
 WATER TEMPERATURE: Maximum, 37.5°C, July 20, 1986; minimum, 0.0°C, on several days during winter months.

EXTREMES FOR CURRENT YEAR.--

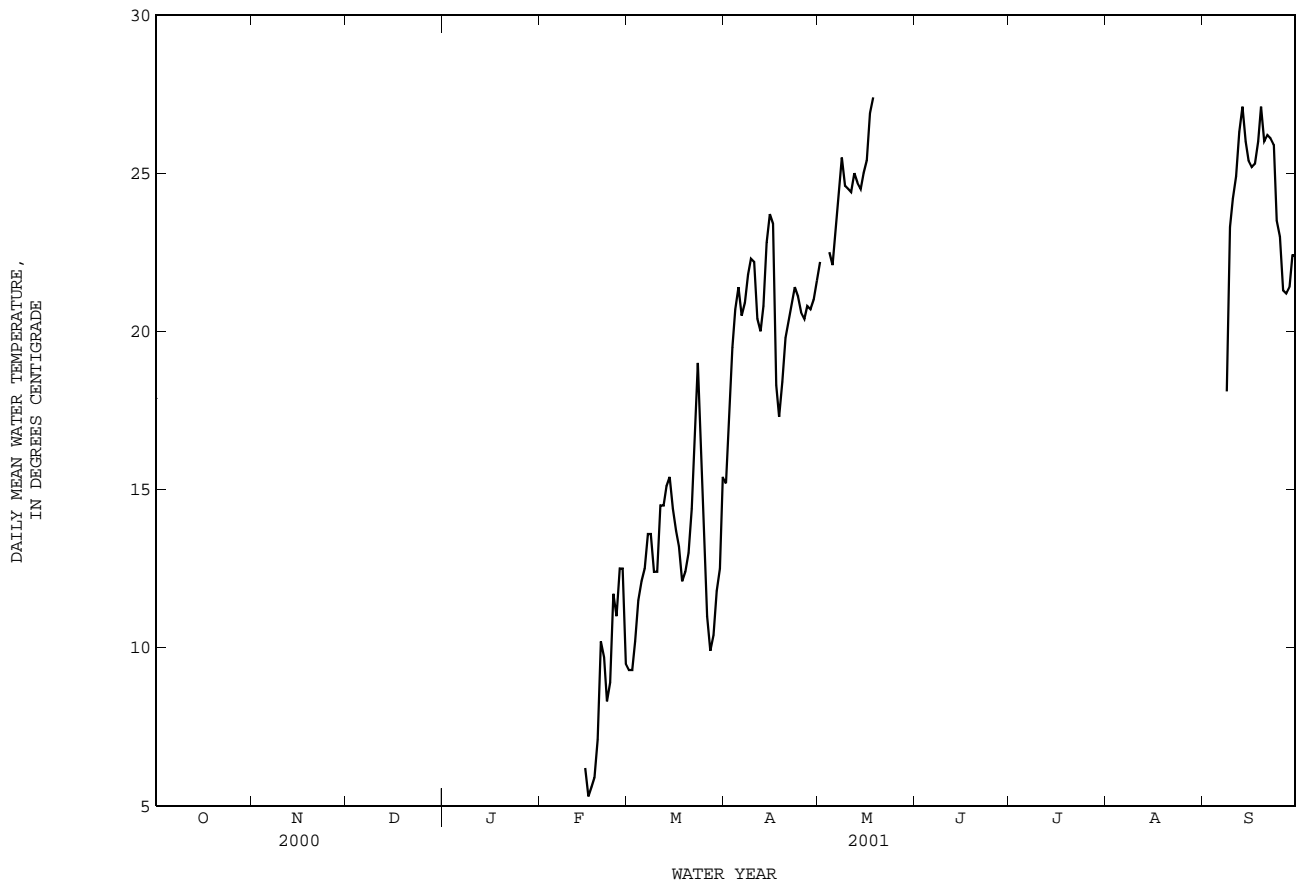
SPECIFIC CONDUCTANCE: Maximum, 1,690 microsiemens/cm, Apr. 12; minimum, 144 microsiemens/cm, Sept. 8.
 WATER TEMPERATURE: Maximum, 31.9°C, Sept. 13; minimum, 3.9°C, Feb. 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	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 23...	0925	4.8	316	8.5	96.1	29.8	5.25	20.3	.901	3.21	23.1	33.0	.2
APR 03...	1220	.11	1050	19.8	239	70.1	15.5	104	2.93	4.10	64.0	202	.2
SEP 10...	1620	2.5	836	27.9	169	47.7	12.0	87.7	2.94	5.87	46.0	165	.3

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
FEB 23...	5.3	164
APR 03...	4.7	538
SEP 10...	6.6	419

08086212 Hubbard Creek below Albany, TX--Continued



BRAZOS RIVER BASIN

08086215 Lake Cisco near Cisco, TX

LOCATION.--Lat 32°26'16", long 98°59'07", Eastland County, Hydrologic Unit 12060105, on right bank 58 ft upstream from Williamson Dam on Sandy Creek, 0.2 mi west of State Highway 6, 1.4 mi north of Cisco Airport, and 4.0 mi north of Cisco.

DRAINAGE AREA.--26.7 mi².

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

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

REMARKS.--Records good except those for estimated daily contents, which are fair. The lake is formed by a 1,064-ft-long Ambursen-type, slab and buttress, all concrete dam structure. A 270-ft long, uncontrolled, ogee-type spillway with a hollow core is an integral part of the dam. The outlet works consist of two 8.0- by 8.0-ft steel sluice gates that are inoperative and four cast-iron pipes through the upstream slab at different elevations that are permanently open to inflow. Reportedly, a 30-inch line extends from the water intake arrangement to the nearby pumphouse and filtration/treatment plant. A 12-inch low-flow outlet connected to the primary water-supply line will discharge into a concrete sluice box and enters the old abandoned swimming pool below the dam through an underground concrete conduit. The dam, owned by the city of Cisco, was completed Sept. 7, 1923. Water is impounded for municipal use by city of Cisco. The city of Cisco has a permit to divert 1,000 acre-ft annually from Battle Creek. The capacity curve is based on 10 ft contours by the Henry Exall Elrod Company in May 24, 1920. Conservation pool storage is 8,800 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,531.6
Crest of spillway.....	1,520.0
Lowest gated outlet (invert).....	1,444.5

COOPERATION.--Capacity table dated May 24, 1920, developed from surface area and capacity curve 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, 18,080 acre-ft, June 26, 1999, elevation, 1,511.14 ft; minimum contents, 11,600 acre-ft, Sept. 30, 2001, elevation, 1,501.66 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,670 acre-ft, May 20, elevation, 1,505.24 ft; minimum contents, 11,600 acre-ft, Sept. 30, elevation, 1,501.66 ft.

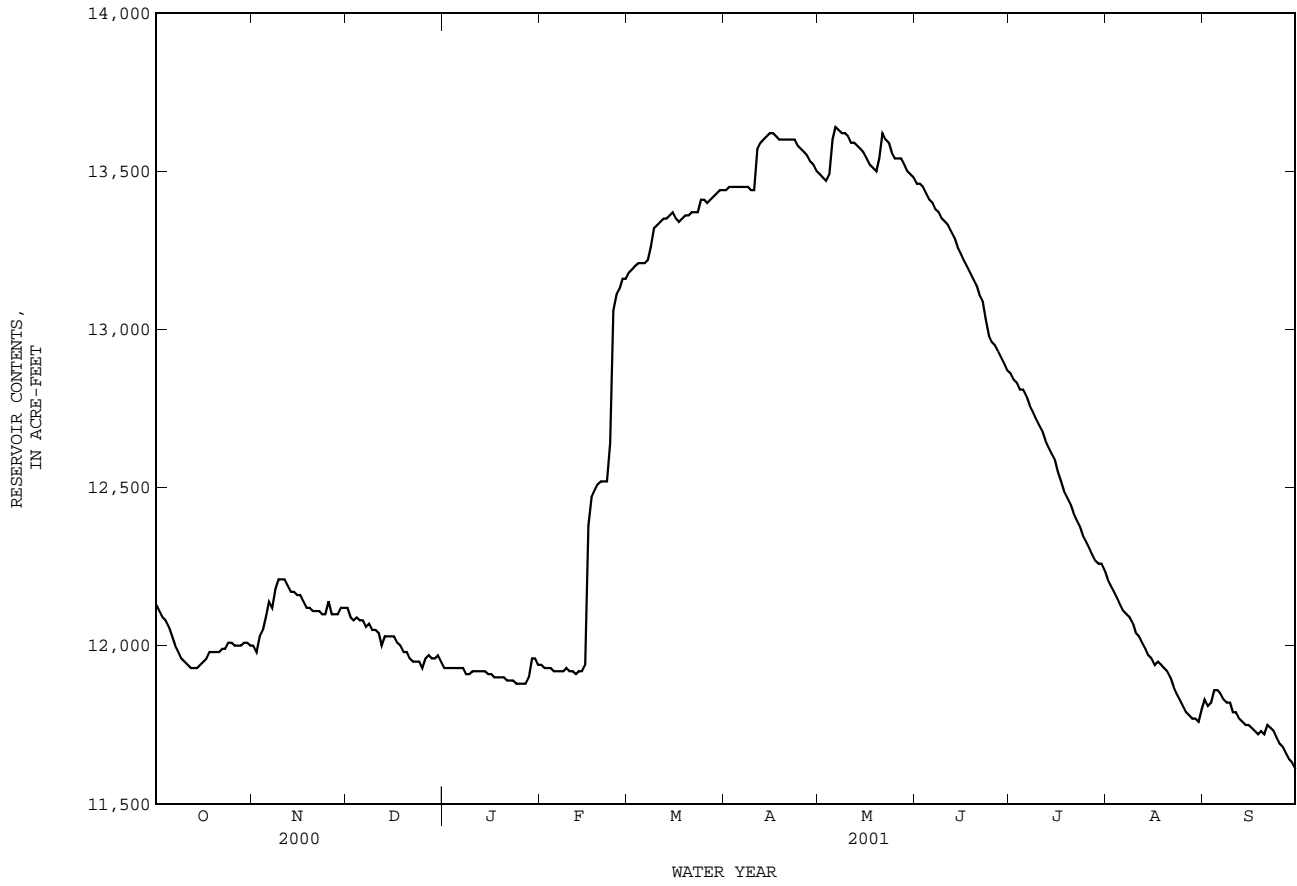
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12130	12000	12120	11930	11940	13180	13440	13490	13460	12860	12210	11830
2	12110	11980	12090	11930	11930	13190	13450	13480	13460	12840	12190	11810
3	12090	12030	12080	11930	11930	13200	13450	13470	13450	12830	12170	11820
4	12080	12050	12090	11930	11930	13210	13450	13490	13430	12810	12150	11860
5	12060	12090	12080	11930	11920	13210	13450	13600	13410	12810	12130	11860
6	12030	12140	12080	11930	11920	13210	13450	13640	13400	12790	12110	11850
7	12000	12120	12060	11930	11920	13220	13450	13630	13380	12760	12100	11830
8	11980	12180	12070	11910	11920	13260	13450	13620	13370	12740	12090	11820
9	11960	12210	12050	11910	11930	13320	13440	13620	13350	12720	12070	11820
10	11950	12210	12050	11920	11920	13330	13440	13610	13340	12700	12040	11790
11	11940	12210	12040	11920	11920	13340	13570	13590	13330	12680	12030	11790
12	11930	12190	e12000	11920	11910	13350	13590	13590	13310	12650	12010	11770
13	11930	12170	12030	11920	11920	13350	13600	13580	13290	12630	11990	11760
14	11930	12170	12030	11920	11920	13360	13610	13570	13260	12610	11970	11750
15	11940	12160	12030	11910	11940	13370	13620	13560	13240	12590	11960	11750
16	11950	12160	12030	11910	12380	13350	13620	13540	13220	12550	11940	11740
17	11960	12140	12010	11900	12470	13340	13610	13520	13200	12520	11950	11730
18	11980	12120	12000	11900	12490	13350	13600	13510	13180	12490	11940	11720
19	11980	12120	11980	11900	12510	13360	13600	13500	13160	12470	11930	11730
20	11980	12110	11980	11900	12520	13360	13600	13540	13140	12450	11920	11720
21	11980	12110	11960	11890	12520	13370	13600	13620	13110	12420	11900	11750
22	11990	12110	11950	11890	12520	13370	13600	13600	13090	12400	11870	11740
23	11990	e12100	11950	11890	12640	13370	13600	13590	13030	12380	11850	11730
24	12010	e12100	11950	11880	13060	13410	13580	13560	12980	12350	11830	11710
25	12010	12140	11930	11880	13110	13410	13570	13540	12960	12330	11810	11690
26	12000	e12100	11960	11880	13130	13400	13560	13540	12950	12310	11790	11680
27	12000	e12100	11970	11880	13160	13410	13550	13540	12930	12290	11780	11660
28	12000	e12100	11960	11900	13160	13420	13530	13520	12910	12270	11770	11640
29	12010	12120	11960	11960	---	13430	13520	13500	12890	12260	11770	11630
30	12010	12120	11970	11960	---	13440	13500	13490	12870	12260	11760	11610
31	12000	---	11950	11940	---	13440	---	13480	---	12240	11800	---
MEAN	12000	12120	12010	11910	12300	13330	13540	13550	13200	12550	11960	11750
MAX	12130	12210	12120	11960	13160	13440	13620	13640	13460	12860	12210	11860
MIN	11930	11980	11930	11880	11910	13180	13440	13470	12870	12240	11760	11610
(+)	1502.38	1502.58	1502.28	1502.27	1504.40	1504.90	1505.01	1504.96	1503.89	1502.78	1502.02	1501.69
(@)	-130	+120	-170	-10	+1220	+280	+60	-20	-610	-630	-440	-190
CAL YR 2000	MAX 14870	MIN 11930	(@) -2930									
WTR YR 2001	MAX 13640	MIN 11610	(@) -520									

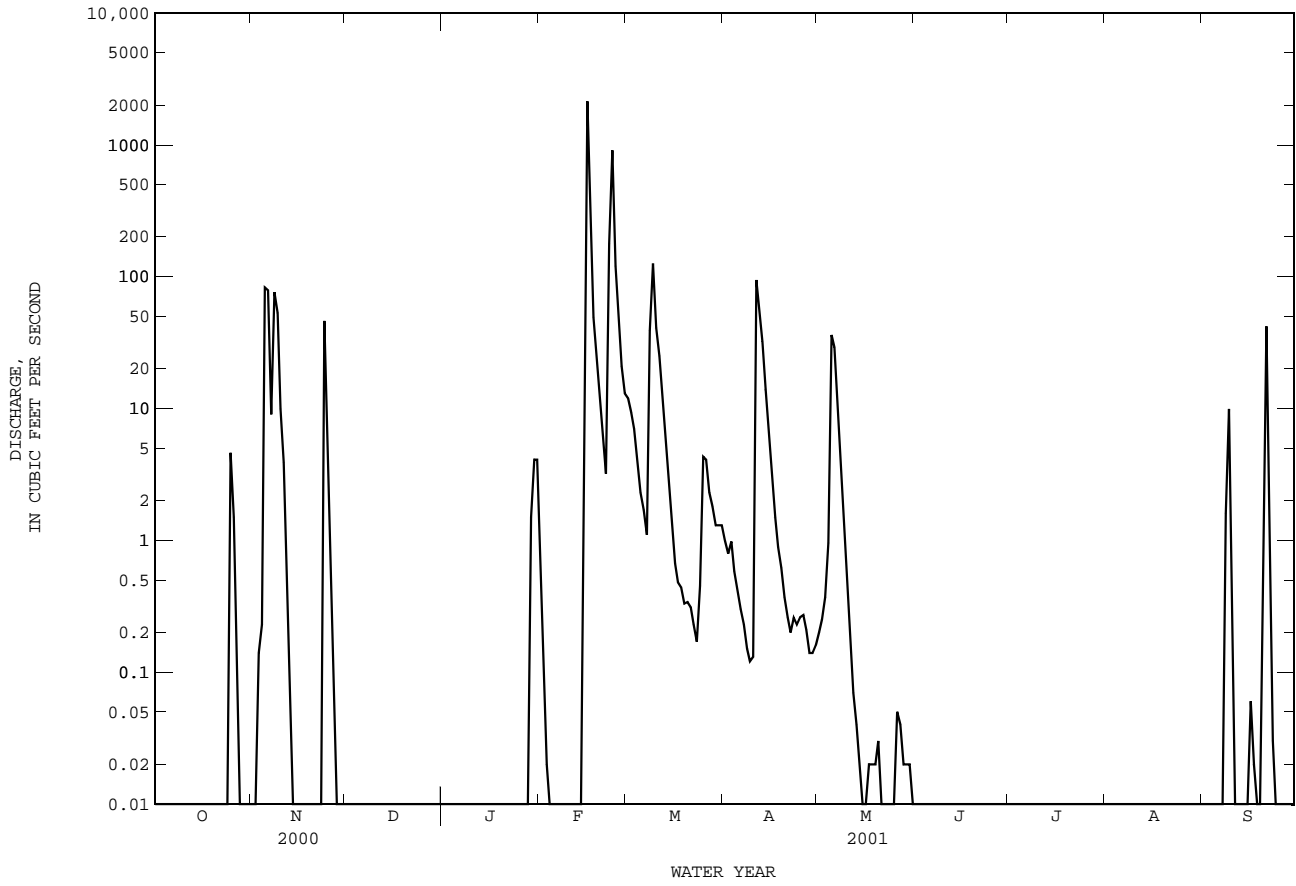
e Estimated

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

08086215 Lake Cisco near Cisco, TX--Continued



08086290 Big Sandy Creek above Breckenridge, TX--Continued



BRAZOS RIVER BASIN

08086290 Big Sandy Creek above Breckenridge, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Nov. 1975 to current year.
 SEDIMENT DATA: Oct. 1967 to Sept. 1975.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Feb. 1962 to Nov. 1970 (local observer), Dec. 1970 to current year.
 WATER TEMPERATURE: Feb. 1962 to Feb. 1982 (local observer), Mar. 1982 to current year.

INSTRUMENTATION.--Specific conductance recorder since Dec. 1970. Water-temperature recorder since Mar. 1982.

REMARKS.--Records fair except those for estimated daily specific conductance, which are poor. Interruptions in the specific conductance and water temperature values were due to no flow except those for specific conductance on Jan. 29-30, which are due to malfunction of the instrument. No flow many days. 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. The computation of the selected constituent loads might include estimated discharge or specific conductance data. New regression equations were developed based on data from water years 1992 to 2001. The standard error of estimate for dissolved solids is 12%, chloride is 92%, sulfate is 60% and for hardness is 19%. 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, 28,700 microsiemens/cm Apr. 5, 10, 1976; minimum daily, 59 microsiemens/cm, Nov. 21, 1963.
 WATER TEMPERATURE: Maximum, 37.0°C, Aug. 9, 1987, July 16, 1989; minimum, 0.0°C, Jan. 9, 10, 1977, Dec. 2, 3, 1985.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 8,180 microsiemens/cm, May 5; minimum, 75 microsiemens/cm, Oct. 27, Feb. 15.
 WATER TEMPERATURE: Maximum, 33.4°C, May 17; minimum, 3.9°C, Feb. 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	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													
31...	1500	3.0	1640	9.0	289	90.6	15.2	4.61	5.35	209	405	.2	2.9
FEB													
23...	1205	1.9	435	9.5	130	43.5	5.15	3.72	1.24	32.5	60.7	.2	6.4
APR													
03...	1510	.94	1550	21.6	326	103	16.8	5.84	4.17	173	68.0	.2	2.5
MAY													
10...	0720	.57	1360	22.5	282	87.7	15.3	7.95	3.89	150	282	.3	4.6
SEP													
10...	1315	.15	381	21.2	86.0	28.8	3.45	5.18	1.57	33.4	67.6	E.1	4.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
JAN		
31...	106	885
FEB		
23...	32.0	231
APR		
03...	21.8	459
MAY		
10...	92.7	719
SEP		
10...	23.6	191

BRAZOS RIVER BASIN

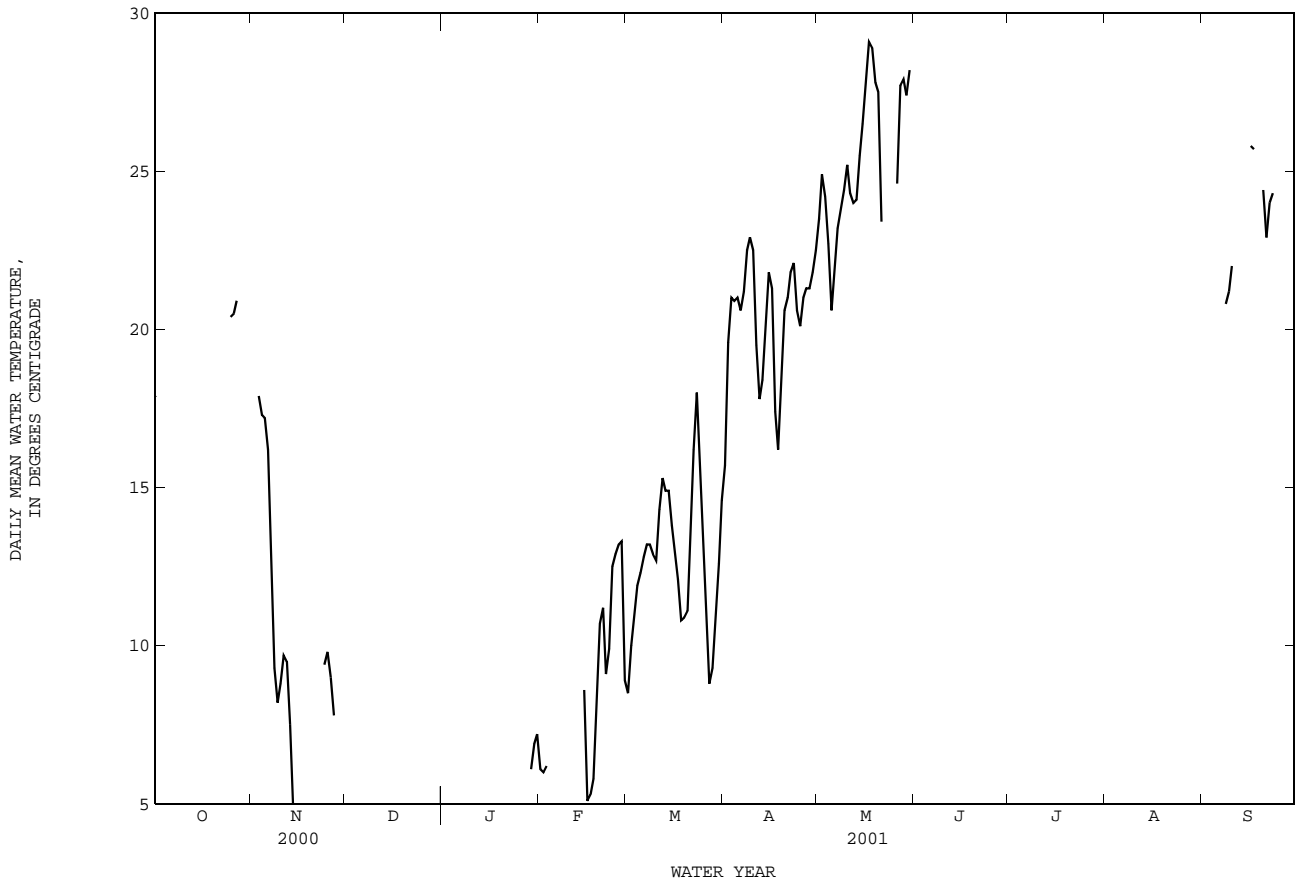
08086290 Big Sandy Creek above Breckenridge, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	925	477	622	414	367	384	1540	1390	1430	5710	5280	5460
2	477	431	455	466	414	442	1730	1540	1620	6110	5710	5900
3	497	418	461	521	466	491	1760	1590	1670	6480	6090	6270
4	---	---	---	577	520	543	1970	1650	1780	8110	6480	6890
5	---	---	---	626	576	596	2260	1960	2110	8180	758	3330
6	---	---	---	701	626	674	2540	2260	2410	801	701	762
7	---	---	---	812	701	758	2900	2540	2740	831	699	750
8	---	---	---	906	394	687	3080	2890	3010	1020	831	918
9	---	---	---	688	450	572	3140	3010	3080	1200	1010	1100
10	---	---	---	585	486	554	3320	3140	3220	1450	1200	1340
11	---	---	---	486	460	468	6930	560	2090	1630	1450	1540
12	---	---	---	493	466	475	967	480	596	1810	1620	1720
13	---	---	---	599	493	537	639	472	522	1930	1790	1860
14	---	---	---	706	598	649	656	593	638	2020	1930	1980
15	726	75	351	868	706	781	702	650	669	2090	2020	2050
16	181	124	159	1030	864	925	832	698	758	2220	2090	2150
17	209	169	189	1210	1030	1120	1060	811	937	2340	2200	2260
18	248	209	228	1410	1210	1280	1240	1040	1090	2500	2310	2360
19	287	248	267	1560	1370	1430	1510	1240	1400	2580	2450	2500
20	329	287	307	1820	1540	1630	1900	1510	1740	2730	2510	2640
21	372	329	352	2150	1820	1990	2280	1900	2100	2880	2710	2850
22	413	372	393	2390	2150	2290	2600	2280	2440	---	---	---
23	463	183	407	2560	2380	2470	2760	2600	2660	---	---	---
24	269	159	220	3170	2560	2810	2990	2740	2850	---	---	---
25	255	222	237	3230	1190	2080	3480	2990	3150	---	---	---
26	303	254	277	1460	1250	1400	3790	3400	3520	4080	3620	3760
27	350	303	327	1250	1080	1140	4150	3750	3860	4450	4040	4190
28	391	350	373	1190	1070	1110	4510	4120	4230	4620	4430	4510
29	---	---	---	1220	1160	1180	4910	4510	4660	4880	4610	4750
30	---	---	---	1360	1220	1290	5280	4900	5010	5110	4860	4970
31	---	---	---	1400	1240	1320	---	---	---	---	---	---
MONTH	---	---	---	3230	367	1100	6930	472	2270	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	3900	462	3610
9	---	---	---	---	---	---	---	---	---	1050	232	627
10	---	---	---	---	---	---	---	---	---	731	482	562
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	783	612	703
17	---	---	---	---	---	---	---	---	---	682	612	655
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	1050	206	652
21	---	---	---	---	---	---	---	---	---	533	156	238
22	---	---	---	---	---	---	---	---	---	297	270	288
23	---	---	---	---	---	---	---	---	---	313	289	302
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated

08086290 Big Sandy Creek above Breckenridge, TX--Continued



BRAZOS RIVER BASIN

08086400 Hubbard Creek Reservoir near Breckenridge, TX

LOCATION.--Lat 32°49'53", long 98°58'03", Stephens County, Hydrologic Unit 12060105, on left bank just upstream from dam on Hubbard Creek, 1.4 mi upstream from U.S. Highway 183, 6.5 mi northwest of Breckenridge, and 12.6 mi upstream from mouth.

DRAINAGE AREA.--1,085 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Oct. 1962 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area. WDR TX-95-2: 1990-94.

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

REMARKS.--Records good except those for estimated daily contents, which are fair. The reservoir is formed by a rolled earthfill dam 5,630 ft long. There are two additional levees, the north and south, making an overall length of 3.5 mi. Storage began Sept. 1962 and the dam was completed in Dec. 1962. The emergency spillway is a 2,000-foot-wide cut through natural ground near the left end of dam. The service spillway is a partially controlled morning-glory type, with 12 lift gates designed to discharge 30,000 ft³/s with a 17.5-ft head through a 22.0-ft-diameter concrete conduit. The dam is the property of the West Central Texas Municipal Water District. Prior to Oct. 1, 1998, contents determined from capacity table dated Aug. 1, 1962, furnished by West Central Texas Municipal Water District. Conservation pool storage is 318,070 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,208.0
Crest of emergency spillway.....	1,194.0
Top of gates.....	1,185.1
Crest of service spillway.....	1,176.6
Sill of gate.....	1,138.0
Lowest gated outlet (invert).....	1,136.0

COOPERATION.--The capacity table dated Oct. 1, 1998, was furnished by the Texas Water Development Board and is based on a Feb. 1997 volumetric survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 441,200 acre-ft, Oct. 14, 1981, elevation, 1,190.22 ft; minimum since normal operating level was reached in May 1969, 127,300 acre-ft, Sept. 30, 2001, elevation, 1,165.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 161,100 acre-ft, Mar. 14, elevation, 1,169.69 ft; minimum contents, 127,300 acre-ft, Sept. 30, elevation, 1,165.89 ft.

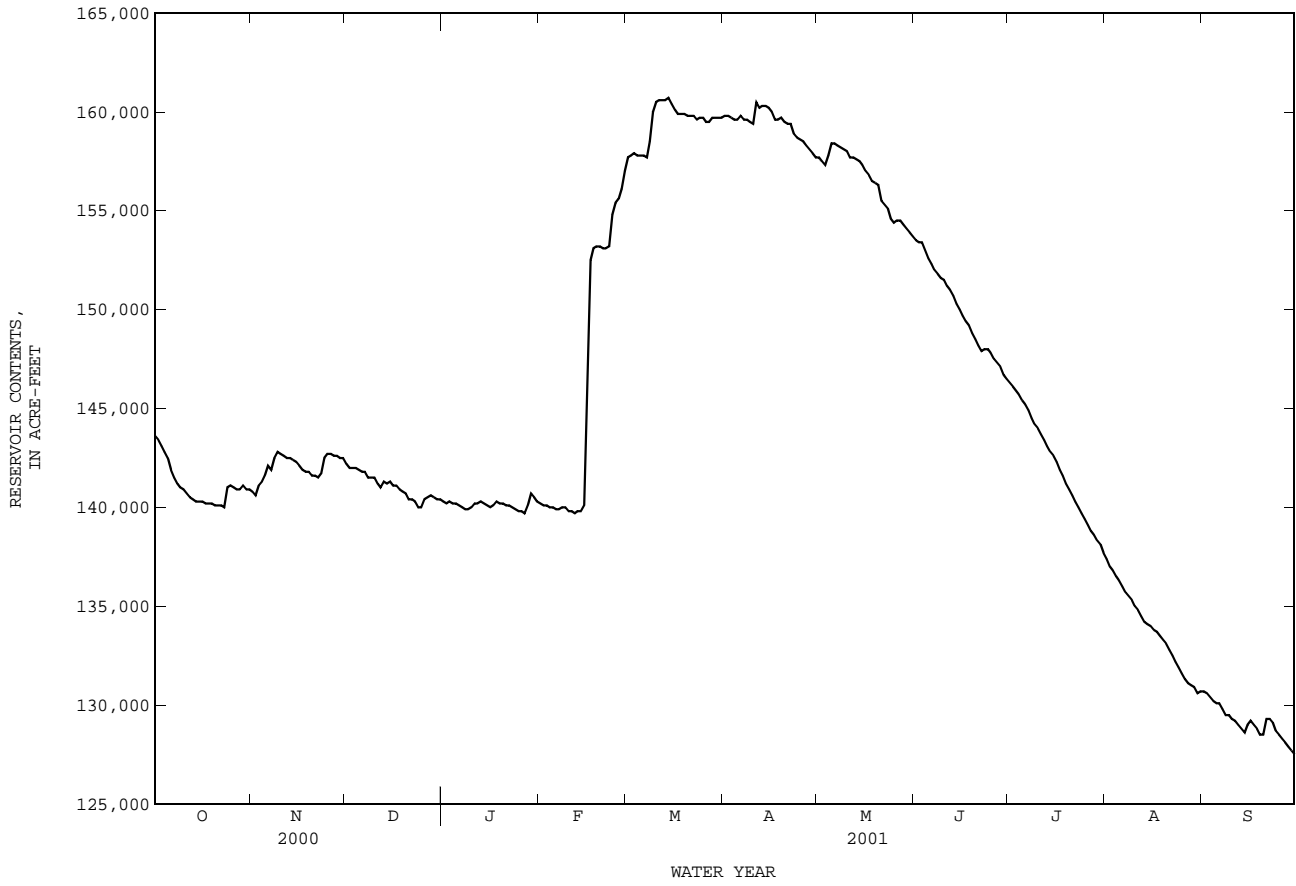
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143600	140800	142200	140300	140200	157700	159800	157700	153500	146300	137400	130700
2	143400	140600	142000	140200	140100	157800	159800	157500	153400	146100	137000	130600
3	143100	141100	142000	140300	140100	157900	159700	157300	153400	145900	136800	130400
4	142800	141300	142000	140200	140000	157800	159600	157800	153000	145700	136500	130200
5	142500	141600	141900	140200	140000	157800	159600	158400	152600	145400	136300	130100
6	141900	142100	141800	140100	139900	157800	159800	158400	152300	145200	136000	130100
7	141500	141900	141800	140000	139900	157700	159600	158300	152000	144900	135700	129800
8	141200	142500	141500	139900	140000	158500	159600	158200	151800	144500	135500	129500
9	141000	142800	141500	139900	140000	160000	159500	158100	151600	144200	135300	129500
10	140900	142700	141500	140000	139800	160500	159400	158000	151500	144000	135000	129300
11	140700	142600	141200	140200	139800	160600	160500	157700	151200	143700	134800	129200
12	140500	142500	141000	140200	139700	160600	160200	157700	151000	143400	134500	129000
13	140400	142500	141300	140300	139800	160600	160300	157600	150700	143100	134200	128800
14	140300	142400	141200	140200	139800	160700	160300	157500	150300	142800	134100	128600
15	140300	142300	141300	140100	140100	160400	160200	157300	150000	142600	134000	129000
16	140300	142100	141100	140000	146900	160100	160000	157000	149700	142300	133800	129200
17	140200	141900	141100	140100	152500	159900	159600	156800	149400	141900	133700	129000
18	140200	141800	140900	140300	153100	159900	159600	156500	149200	141600	133500	128800
19	140200	141800	140800	140200	153200	159900	159700	156400	148800	141200	133300	128500
20	140100	141600	140700	140200	153200	159800	159500	156300	148500	140900	133100	128500
21	140100	141600	140400	140100	153100	159800	159400	155500	148200	140600	132800	129300
22	140100	141500	140400	140100	153100	159800	159400	155300	147900	140300	132500	129300
23	140000	141700	140300	140000	153200	159600	158900	155100	148000	140000	132200	129100
24	141000	142500	140000	139900	154800	159700	158700	154600	148000	139700	131900	128700
25	141100	142700	140000	139800	155400	159700	158600	154400	147800	139400	131600	128500
26	141000	142700	140400	139800	155600	159500	158500	154500	147500	139100	131300	128300
27	140900	142600	e140500	139700	156100	159500	158300	154500	147300	138800	131100	128100
28	140900	142600	140600	140100	157000	159700	158100	154300	147100	138600	131000	127900
29	141100	142500	140500	140700	---	159700	157900	154100	146700	138300	130900	127700
30	140900	142500	140400	140500	---	159700	157700	153900	146500	138100	130600	127500
31	140900	---	140400	140300	---	159700	---	153700	---	137700	130700	---
MEAN	141100	142100	141100	140100	146300	159400	159400	156500	150000	142100	133800	129100
MAX	143600	142800	142200	140700	157000	160700	160500	158400	153500	146300	137400	130700
MIN	140000	140600	140000	139700	139700	157700	157700	153700	146500	137700	130600	127500
(+)	1167.49	1167.68	1167.44	1167.43	1169.27	1169.54	1169.34	1168.91	1168.13	1167.14	1166.30	1165.91
(@)	-2800	+1600	-2100	-100	+16700	+2700	-2000	-4000	-7200	-8800	-7000	-3200
CAL YR 2000	MAX 203800	MIN 140000	(@) -63600									
WTR YR 2001	MAX 160700	MIN 127500	(@) -16200									

e Estimated

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

08086400 Hubbard Creek Reservoir near Breckenridge, TX--Continued



BRAZOS RIVER BASIN

08086400 Hubbard Creek Reservoir near Breckenridge, TX--Continued

LOCATION.--Lat 32°49'53", long 98°58'03", Stephens County, Hydrologic Unit 12060105, on left bank just upstream from dam on Hubbard Creek, 1.4 mi upstream from U.S. Highway 183, 6.5 mi northwest of Breckenridge, and 12.6 mi upstream from mouth.

PERIOD OF RECORD.--

CHEMICAL DATA: Sept. 1963 to current year.

BIOCHEMICAL DATA: Sept. 1963 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

324932098575101 -- Hubbard Ck Res Site P01

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 (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
MAR													
21...	1401	160000	1.00	1390	8.1	13.5	1.74	9.5	95.6	286	191	71.2	26.2
21...	1406	--	10.0	1390	8.0	13.5	--	9.5	95.6	--	--	--	--
21...	1411	--	20.0	1390	8.0	12.5	--	9.4	92.5	--	--	--	--
21...	1417	--	30.0	1390	8.0	12.0	--	9.2	89.5	--	--	--	--
21...	1421	--	40.0	1390	8.0	12.0	--	9.0	87.6	--	--	--	--
21...	1425	--	54.0	1400	7.9	12.0	--	8.6	83.7	295	198	75.0	26.2
AUG													
30...	1012	131000	1.00	1560	7.9	27.0	.85	7.9	105	321	230	77.3	30.9
30...	1016	--	10.0	1560	7.9	27.0	--	7.9	105	--	--	--	--
30...	1021	--	20.0	1560	7.9	27.0	--	7.8	104	--	--	--	--
30...	1025	--	30.0	1560	7.8	27.0	--	7.1	94.4	--	--	--	--
30...	1029	--	40.0	1560	7.7	27.0	--	6.6	87.7	--	--	--	--
30...	1033	--	48.0	1560	7.6	27.0	--	5.5	73.1	324	231	78.4	31.0

324932098575101 -- Hubbard Ck Res Site P01

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, 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)
MAR													
21...	142	3.65	51.0	8.48	95	97.3	314	.4	6.1	723	<.006	.096	<.041
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	140	3.56	49.9	9.23	97	98.0	323	.4	6.0	737	E.003	.095	E.037
AUG													
30...	169	4.10	52.4	9.70	90	110	368	.4	7.0	826	<.006	<.050	<.040
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	169	4.10	52.3	9.94	93	110	372	.4	7.2	834	<.006	<.050	E.082

324932098575101 -- Hubbard Ck Res Site P01

DATE	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)
MAR					
21...	.36	E.034	<.018	<10	E1.6
21...	--	--	--	--	--
21...	--	--	--	--	--
21...	--	--	--	--	--
21...	--	--	--	--	--
21...	.46	E.030	<.018	M	16.4
AUG					
30...	.38	<.060	<.020	<10	3.9
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	--	--	--	--	--
30...	.48	<.060	<.020	<10	199

08086400 Hubbard Creek Reservoir near Breckenridge, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

324649099000501 -- Hubbard Ck Res Site P09

DATE	TIME	SAM-PLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD)	TEMPERATURE WATER (DEG C)	TRANSPAR-ENCY (SECCHI DISK)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, SATUR-ATION (MG/L)	HARD-NESS (PER-CENT)	HARD-NESS TOTAL (MG/L)	HARD-NESS DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L)	MAGNE-SIUM, DIS-SOLVED (MG/L)	SODIUM, DIS-SOLVED (MG/L)
		(00003)	(00095)	(00400)	(00010)	(00078)	(00300)	(00301)	(00900)	(00904)	(00915)	(00925)	(00930)	(00930)
MAR														
21...	1226	1.00	1240	8.0	12.5	.58	9.9	97.4	273	180	70.4	23.5	125	
21...	1230	10.0	1250	7.9	12.0	--	9.8	95.3	--	--	--	--	--	
21...	1235	20.0	1310	7.9	11.5	--	9.5	91.4	--	--	--	--	--	
21...	1241	32.0	1320	7.8	11.5	--	9.8	94.3	278	184	69.9	25.2	136	
AUG														
30...	1055	1.00	1570	8.1	26.5	.58	7.8	103	326	233	78.9	31.3	172	
30...	1100	10.0	1570	8.1	26.0	--	7.6	99.2	--	--	--	--	--	
30...	1105	20.0	1570	8.1	26.0	--	7.5	97.9	--	--	--	--	--	
30...	1110	29.0	1570	8.1	26.0	--	7.2	94.0	327	233	79.1	31.3	171	

324649099000501 -- Hubbard Ck Res Site P09

DATE	TIME	SODIUM AD-SORPTION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L)	ALKA-LINITY WAT DIS TOT IT (MG/L)	SULFATE DIS-SOLVED (MG/L)	CHLO-RIDE, DIS-SOLVED (MG/L)	FLUO-RIDE, DIS-SOLVED (MG/L)	SILICA, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L)	
		(00931)	(00932)	(00935)	(39086)	(00945)	(00940)	(00950)	(00955)	(70301)	(00613)	(00631)	(00608)	(00623)
MAR														
21...	3.29	48.9	8.25	92	86.8	274	.4	5.9	650	E.005	.171	<.041	.34	
21...	--	--	--	--	--	--	--	--	--	--	--	--	--	
21...	--	--	--	--	--	--	--	--	--	--	--	--	--	
21...	3.55	50.6	8.22	95	92.3	301	.4	6.0	697	E.004	.127	<.041	.37	
AUG														
30...	4.14	52.5	9.76	94	110	368	.4	7.1	834	<.006	<.050	<.040	.42	
30...	--	--	--	--	--	--	--	--	--	--	--	--	--	
30...	--	--	--	--	--	--	--	--	--	--	--	--	--	
30...	4.12	52.4	9.57	93	111	372	.4	7.1	837	<.006	<.050	<.040	.41	

324649099000501 -- Hubbard Ck Res Site P09

DATE	PHOS-PHORUS DIS-SOLVED (MG/L)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L)	IRON, DIS-SOLVED (UG/L)	MANGA-NESE, DIS-SOLVED (UG/L)
	(00666)	(00671)	(01046)	(01056)
MAR				
21...	E.035	<.018	<10	E1.6
21...	--	--	--	--
21...	--	--	--	--
21...	<.060	<.018	<10	4.9
AUG				
30...	<.060	<.020	<10	<3.0
30...	--	--	--	--
30...	--	--	--	--
30...	<.060	<.020	<10	50.0

324606099000201 -- Hubbard Ck Res Site P10

DATE	TIME	SAM-PLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, SATUR-ATION (MG/L)
		(00003)	(00095)	(00400)	(00010)	(00300)	(00301)
MAR							
21...		1322	1.00	1200	8.1	14.0	10.2
21...		1326	10.0	1200	8.1	13.0	10.2
21...		1329	22.0	1210	8.0	11.5	9.6
AUG							
30...		1126	1.00	1570	8.1	26.0	6.6
30...		1129	10.0	1580	8.0	26.0	6.1
30...		1132	20.0	1580	7.9	25.5	5.4

BRAZOS RIVER BASIN

08086400 Hubbard Creek Reservoir near Breckenridge, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

324514099010201 -- Hubbard Ck Res Site P11

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR							
21...	1259	1.00	1100	8.1	13.5	10.2	103
21...	1302	13.0	1060	7.9	11.5	9.6	92.3

324949098594301 -- Hubbard Ck Res Site P13

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR							
21...	1443	1.00	1400	8.1	13.0	9.4	93.6
21...	1446	10.0	1400	8.1	12.5	9.5	93.5
21...	1449	20.0	1400	8.1	12.0	9.4	91.5
21...	1452	30.0	1400	8.0	12.0	9.3	90.5
21...	1456	40.0	1400	8.0	12.0	8.9	86.6
21...	1458	46.0	1400	8.0	12.0	9.0	87.6
AUG							
30...	1207	1.00	1560	8.1	27.0	6.8	89.7
30...	1210	10.0	1560	8.1	27.0	6.6	87.1
30...	1213	20.0	1560	8.1	27.0	6.6	87.1
30...	1216	30.0	1570	8.1	27.0	6.4	84.5
30...	1218	39.0	1570	8.1	27.0	6.5	85.8

324802099021601 -- Hubbard Ck Res Site P15

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR							
21...	1516	1.00	1390	8.1	13.5	9.8	98.7
21...	1518	14.0	1390	8.1	11.5	9.9	95.3
AUG							
30...	1233	1.00	1580	8.1	26.0	7.7	99.8
30...	1237	13.0	1580	8.0	26.0	7.4	95.9

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BRAZOS RIVER BASIN

08086600 Lake Daniel near Breckenridge, TX

LOCATION.--Lat 32°38'52", long 98°52'09", Stephens County, Hydrologic Unit 12060105, 66 ft left and 128 ft upstream from service outlet structure at Gonzales Creek Dam, on Gonzales Creek, 2.0 miles east of U.S. Highway 183, 7.0 miles south of Breckenridge, and 16.0 miles upstream from mouth.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--Mar. 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 2,655 ft long. The dam was completed on Sept. 1, 1948 and first filled June 1949. The dam and reservoir are owned and operated by city of Breckenridge. Water is released from service spillway through three 18-inch gated outlets into two 8.0- by 8.0-ft conduits into Gonzales Creek and diverted from a downstream lake to the treatment plant. The unregulated service spillway, located near left end of dam, is a concrete drop inlet structure with double horseshoe conduits. The emergency spillway is located at left end of the dam, and is 1,500 ft in length. Lake was built for flood control, industrial, and municipal uses. Conservation pool storage is 9,515 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,295.5
Crest of emergency spillway.....	1,284.5
Crest of service spillway.....	1,278.5
Lowest gated outlet (invert).....	1,250.0

COOPERATION.--The capacity table provided by the city of Breckenridge is based on Natural Resources Conservation Service 1970 survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,400 acre-ft, Apr. 1, 1999, elevation, 1,271.94 ft; minimum contents, 200 acre-ft, Feb. 15, 2001, elevation, 1,259.97 ft.

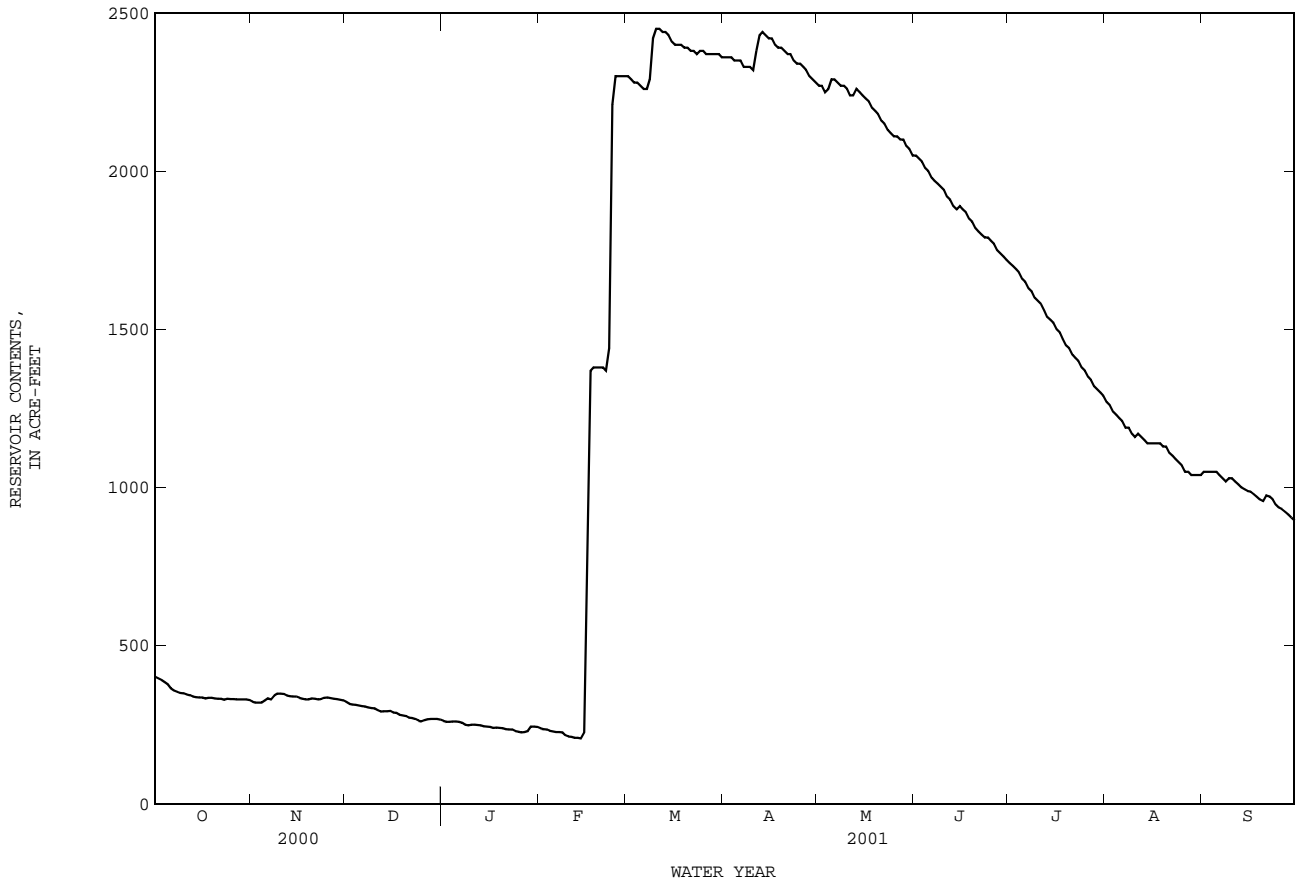
EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,460 acre-ft, Mar. 10, elevation, 1,267.99 ft; minimum contents, 200 acre-ft, Feb. 15, elevation, 1,259.97 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	323	322	263	239	2300	2360	2270	2050	1710	1270	1050
2	396	320	316	260	236	2290	2360	2270	2040	1700	1260	1050
3	391	320	314	260	235	2280	2360	2250	2030	1690	1240	1050
4	385	320	313	261	231	2280	2350	2260	2010	1680	1230	1050
5	378	326	311	261	229	2270	2350	2290	2000	1660	1220	1050
6	365	334	309	260	227	2260	2350	2290	1980	1650	1210	1040
7	358	331	308	257	227	2260	2330	2280	1970	1630	1190	1030
8	354	343	305	251	226	2290	2330	2270	1960	1620	1190	1020
9	351	349	303	249	217	2420	2330	2270	1950	1600	1170	1030
10	350	349	302	251	213	2450	2320	2260	1940	1590	1160	1030
11	346	348	296	251	212	2450	2380	2240	1920	1580	1170	1020
12	344	343	292	250	209	2440	2430	2240	1910	1560	1160	1010
13	340	341	293	249	209	2440	2440	2260	1890	1540	1150	1000
14	338	340	293	246	207	2430	2430	2250	1880	1530	1140	994
15	337	340	294	245	225	2410	2420	2240	1890	1520	1140	989
16	337	336	289	243	970	2400	2420	2230	1880	1500	1140	987
17	334	333	288	240	1370	2400	2400	2220	1870	1490	1140	979
18	336	331	282	241	1380	2400	2390	2200	1850	1470	1140	970
19	336	331	280	240	1380	2390	2390	2190	1840	1450	1130	962
20	334	334	278	239	1380	2390	2380	2180	1820	1440	1130	957
21	333	333	273	236	1380	2380	2370	2160	1810	1420	1110	975
22	333	331	272	235	1370	2380	2370	2150	1800	1410	1100	972
23	329	332	269	235	1440	2370	2350	2130	1790	1400	1090	963
24	333	336	264	230	2210	2380	2340	2120	1790	1380	1080	947
25	332	337	261	228	2300	2380	2340	2110	1780	1370	1070	937
26	332	335	265	226	2300	2370	2330	2110	1770	1350	1050	931
27	331	333	268	227	2300	2370	2320	2100	1750	1340	1050	923
28	331	332	269	230	2300	2370	2300	2100	1740	1320	1040	914
29	331	329	269	245	---	2370	2290	2080	1730	1310	1040	905
30	330	327	269	245	---	2370	2280	2070	1720	1300	1040	896
31	328	---	267	243	---	2360	---	2050	---	1290	1040	---
MEAN	347	334	288	245	908	2370	2360	2200	1880	1500	1140	988
MAX	401	349	322	263	2300	2450	2440	2290	2050	1710	1270	1050
MIN	328	320	261	226	207	2260	2280	2050	1720	1290	1040	896
(+)	1260.74	1260.73	1260.37	1260.23	1267.62	1267.77	1267.58	1267.00	1266.10	1264.81	1263.99	1263.48
(@)	-71	-1	-60	-24	+2057	+60	-80	-230	-330	-430	-250	-144
CAL YR 2000	MAX 1900	MIN 261	(@) -1633									
WTR YR 2001	MAX 2450	MIN 207	(@) +497									

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

08086600 Lake Daniel near Breckenridge, TX--Continued



BRAZOS RIVER BASIN

08088000 Brazos River near South Bend, TX

LOCATION.--Lat 33°01'27", long 98°38'37", Young County, Hydrologic Unit 12060201, on left bank 225 ft downstream from bridge on State Highway 67, 1.8 mi downstream from Clear Fork Brazos River, 2.0 mi northeast of South Bend, and at mile 758.2.

DRAINAGE AREA.--22,673 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Sept. 1938 to current year.

Water-quality records.--Chemical data: July 1941 to Mar. 1948. Biochemical data: Nov. 1977 to Sept. 1991. Pesticide data: Mar. 1968 to Apr. 1982. Sediment data: May to Sept. 1962, Nov. 1977 to Sept. 1991. Specific conductance: Jan. 1942 to Mar. 1948, Nov. 1977 to Sept. 1981. Temperature: Nov. 1977 to Sept. 1981.

REVISED RECORDS.--WRD TX-74-1: 1973. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,002.98 ft above sea level. Prior to Feb. 23, 1939, nonrecording gage at site 255 ft upstream, and Feb. 23, 1939, to Mar. 9, 1961, water-stage recorder at site 225 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records poor. Since water year 1962, at least 10% of contributing drainage area has been regulated. Flow is also affected at times by discharge from the flood-detention pools of 12 floodwater-retarding structures. These structures control runoff from 108 mi² in the Duck Creek basin. There are many small diversions upstream from station for municipal supply and oil field operations. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1876 reached a stage of 36.2 ft, from information by Texas Department of Transportation and U.S. Army Corps of Engineers. Flood of Sept. 24, 1900, reached a stage of 29.5 ft, and flood of June 16, 1930, reached a stage of 35.5 ft, from information by local residents.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--23 years (water years 1939-61), 993 ft³/s (719,100 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1939-61).--Maximum discharge, 87,400 ft³/s May 4, 1941 (gage height, 27.35 ft); no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	702	460	101	221	2740	502	87	122	e789	14	59
2	.00	615	377	95	164	2130	448	84	206	e645	31	146
3	.00	468	310	99	136	2470	403	79	199	e515	30	392
4	.00	357	260	100	126	1280	372	86	151	e410	76	401
5	.00	286	225	99	124	840	349	176	91	e340	15	371
6	.00	528	198	98	120	658	328	2520	133	e268	4.7	366
7	.00	562	182	95	117	530	300	1750	243	e220	5.3	354
8	.00	528	162	90	115	1070	281	909	180	e181	3.1	385
9	.00	830	147	90	116	7310	261	612	172	e147	2.0	572
10	.00	641	139	97	112	7540	245	486	136	e119	1.6	494
11	.00	390	123	107	117	2980	314	351	136	e93	2.0	422
12	.00	318	118	108	121	2210	363	280	144	e72	2.6	425
13	.00	312	127	124	116	1480	324	227	118	e54	2.8	433
14	.00	249	124	130	114	1190	292	166	114	e38	3.1	391
15	.00	197	121	116	149	948	269	137	111	26	6.1	358
16	.00	160	113	117	6840	753	229	116	67	13	26	331
17	.00	130	110	120	9870	629	224	95	60	3.3	93	296
18	.00	108	104	128	3900	551	237	82	72	5.9	79	266
19	.00	93	103	129	1760	503	202	74	62	13	58	241
20	.00	80	100	125	1080	472	184	68	54	5.9	61	221
21	.00	73	95	116	789	444	173	60	54	70	52	232
22	.00	68	93	109	601	415	169	58	53	139	33	134
23	18	69	88	106	508	396	149	53	46	175	49	86
24	29	604	85	102	566	495	137	47	44	67	46	758
25	134	4000	85	100	489	5470	130	45	47	46	37	404
26	36	1900	100	98	374	3230	121	44	50	23	30	533
27	56	1070	113	100	419	1520	113	49	65	24	31	329
28	28	889	105	118	969	1020	106	46	111	24	37	260
29	189	736	94	201	---	774	101	48	140	20	91	208
30	945	570	82	383	---	643	94	71	e748	3.9	85	168
31	1020	---	103	318	---	557	---	74	---	5.2	73	---
TOTAL	2455.00	17533	4646	3919	30133	53248	7420	8980	3929	4555.2	1080.3	10036
MEAN	79.2	584	150	126	1076	1718	247	290	131	147	34.8	335
MAX	1020	4000	460	383	9870	7540	502	2520	748	789	93	758
MIN	.00	68	82	90	112	396	94	44	44	3.3	1.6	59
AC-FT	4870	34780	9220	7770	59770	105600	14720	17810	7790	9040	2140	19910

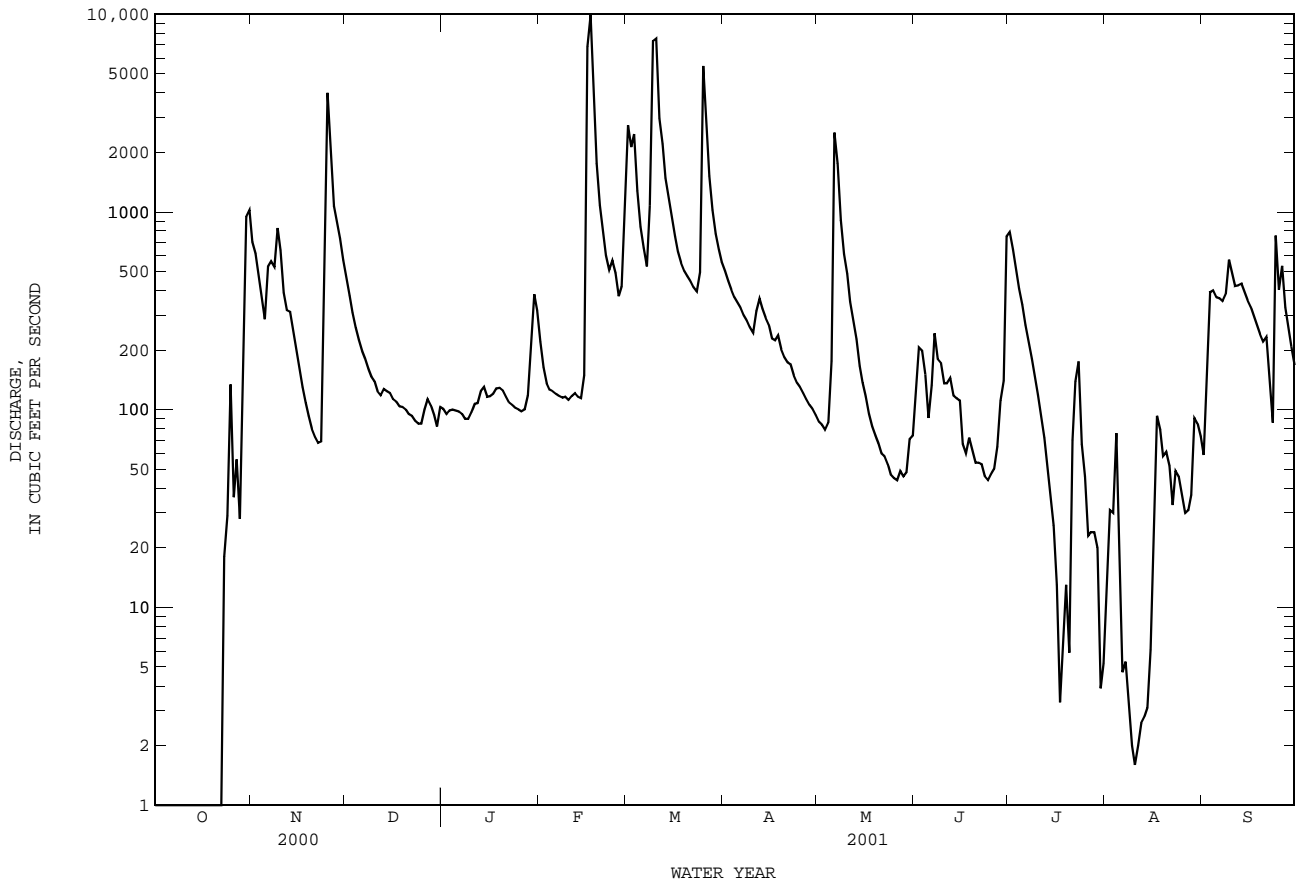
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001z, BY WATER YEAR (WY)

	860	363	338	235	524	514	556	1318	1592	375	671	968
MEAN	860	363	338	235	524	514	556	1318	1592	375	671	968
MAX	7600	2143	6024	1743	8987	4143	5435	6872	8652	2236	9363	6231
(WY)	1982	1975	1992	1968	1992	1992	1990	1982	1982	1967	1978	1962
MIN	3.82	7.45	6.05	5.92	3.33	7.17	.82	20.0	5.61	2.88	.096	.000
(WY)	1999	2000	1971	2000	2000	1971	1971	1996	1984	1978	1998	1998

08088000 Brazos River near South Bend, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001z	
ANNUAL TOTAL	87420.00		147934.50		692	
ANNUAL MEAN	239		405		2966	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	7800	Mar 26	9870	Feb 17	74700	Aug 6 1978
LOWEST DAILY MEAN	.00	Aug 13	.00	Oct 1	.00	Aug 3 1964
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 13	.00	Oct 1	.00	Aug 3 1964
MAXIMUM PEAK FLOW			11000		78100	
MAXIMUM PEAK STAGE			17.90		41.50	
ANNUAL RUNOFF (AC-FT)	173400		293400		501400	
10 PERCENT EXCEEDS	584		764		1230	
50 PERCENT EXCEEDS	56		124		128	
90 PERCENT EXCEEDS	.00		6.0		13	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08088400 Lake Graham near Graham, TX

LOCATION.--Lat 33°08'04", long 98°36'48", Young County, Hydrologic Unit 12060201, near left end of earthen dam on Salt Creek, 2.2 mi northwest of Graham, 5 mi downstream from Briar Creek, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--221 mi².

PERIOD OF RECORD.--Mar. 1958 to Sept. 1963 (unpublished record), Oct. 1963 to current year. Prior to Oct. 1965, end of month contents only.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1.30 ft above sea level. Prior to Oct. 1963, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 5,000 ft long. Lake Graham was connected with Lake Eddleman in 1959 by a cut channel at a gage height of 1,050.0 ft. Deliberate impoundment began Apr. 28, 1958, and dam was completed in July 1958. The uncontrolled emergency spillway is a 1,050-foot-wide cut at the right end of dam. The spillway is designed to discharge 136,500 ft³/s at a gage height of 1,087.5 ft. The dam is the property of the city of Graham and was built to impound water for municipal and industrial uses. In addition, water is used by the Texas Electric Service Co. for operation of their steam generating powerplant. New capacity table from Texas Water Development Board hydrosurvey of June 1998 was put into use Oct. 1 2000. Conservation pool storage is 45,260 acre-ft. Data regarding the dam are given in the following table:

	Gage height (feet)
Top of dam.....	1,092.0
Crest of spillway.....	1,075.0
Bottom of interconnecting channel.....	1,050.0
Lowest gated outlet (invert).....	1,050.0

COOPERATION.--Capacity table was provided by Freese and Nichols Inc., Consulting Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 63,280 acre-ft, May 3, 1990, gage height, 1,078.52 ft; minimum, 23,130 acre-ft Oct 18, 2000, gage height, 1,064.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 48,590 acre-ft, Mar. 9, elevation, 1,076.25 ft; minimum contents, 23,130 acre-ft, Oct. 18, elevation, 1,064.25 ft.

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

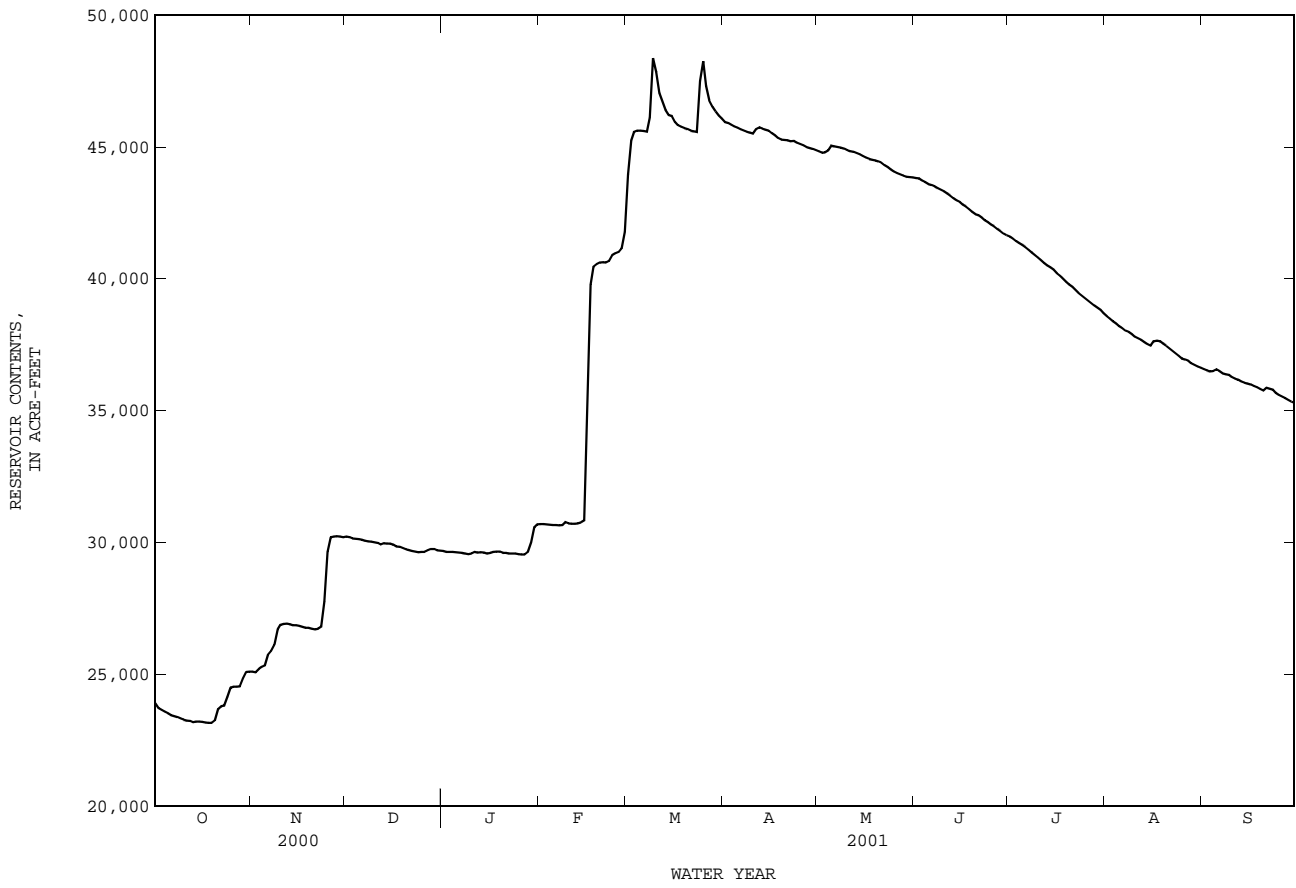
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23890	25090	30220	29670	30690	43950	45940	44830	43820	41600	38590	36570
2	23710	25070	30200	29640	30690	45240	45900	44780	43800	41520	38490	36520
3	23640	25190	30150	29630	30680	45570	45830	44790	43720	41430	38380	36480
4	23580	25280	30130	29630	30670	45620	45770	44860	43660	41350	38290	36490
5	23520	25330	30120	29620	30650	45620	45720	45040	43590	41280	38200	36560
6	23450	25740	30100	29610	30650	45600	45660	45020	43550	41200	38120	36490
7	23410	25890	30060	29600	30640	45580	45620	45000	43500	41100	38030	36410
8	23370	26110	30040	29570	30660	46110	45570	44970	43430	40990	37980	36370
9	23320	26690	30020	29550	30760	48360	45540	44930	43370	40900	37890	36350
10	23280	26870	30000	29570	30720	47830	45500	44870	43310	40800	37800	36260
11	23240	26910	29970	29630	30700	47040	45670	44840	43240	40700	37730	36200
12	23220	26920	29920	29610	30710	46710	45730	44810	43150	40590	37670	36170
13	23180	26890	29960	29620	30720	46400	45690	44770	43050	40500	37590	36100
14	23200	26860	29950	29610	30750	46210	45650	44720	42970	40430	37510	36050
15	23200	26850	29950	29580	30820	46170	45610	44650	42910	40340	37450	36020
16	23190	26830	29920	29600	34690	45940	45520	44600	42810	40210	37630	35980
17	23160	26790	29840	29630	39780	45820	45430	44550	42740	40110	37650	35920
18	23150	26760	29830	29650	40460	45760	45330	44510	42640	40000	37630	35880
19	23150	26760	29780	29650	40550	45710	45270	44480	42530	39880	37540	35820
20	23250	26720	29730	29600	40610	45670	45260	44450	42450	39780	37460	35760
21	23680	26700	29710	29600	40630	45620	45250	44400	42410	39690	37360	35870
22	23780	26720	29670	29580	40610	45590	45210	44300	42320	39580	37260	35830
23	23810	26790	29650	29580	40670	45570	45220	44230	42220	39460	37180	35790
24	24140	27750	29620	29580	40890	47500	45150	44150	42140	39360	37080	35670
25	24490	29630	29630	29550	40970	48250	45100	44060	42060	39270	36970	35590
26	24530	30190	e29640	29540	41010	47300	45050	44000	41980	39170	36930	35520
27	24530	30220	e29700	29540	41140	46760	45000	e43950	41890	39080	36880	35460
28	24540	30230	e29750	29640	41780	46520	44960	e43900	41800	38990	36790	35390
29	24840	30220	29740	29990	---	46340	44920	e43860	41700	38900	36730	35330
30	25080	30200	29700	30570	---	46190	44870	e43850	41640	38810	36660	35280
31	25100	---	29690	30680	---	46070	---	43840	---	38690	36620	---
MEAN	23730	27140	29880	29680	35150	46210	45430	44520	42810	40180	37550	36000
MAX	25100	30230	30220	30680	41780	48360	45940	45040	43820	41600	38590	36570
MIN	23150	25070	29620	29540	30640	43950	44870	43840	41640	38690	36620	35280
(+)	1065.41	1068.20	1067.94	1068.45	1073.54	1075.29	1074.82	1074.40	1073.48	1072.22	1071.30	1070.68
(@)	-4800	+5100	-510	+990	+11100	+4290	-1200	-1030	-2200	-2950	-2070	-1340
CAL YR 2000	MAX 40160	MIN 23150	(@) -10500									
WTR YR 2001	MAX 48360	MIN 23150	(@) +5380									

e Estimated

(+) Gage height, in feet, at end of month.

(@) Change in contents, in acre-feet.

08088400 Lake Graham near Graham, TX--Continued



BRAZOS RIVER BASIN

08088500 Possum Kingdom Lake near Graford, TX

LOCATION.--Lat 32°52'20", long 98°25'32", Palo Pinto County, Hydrologic Unit 12060201, at Morris Sheppard Dam on the Brazos River, 2.6 mi upstream from Loving Creek, 11.3 mi southwest of Graford, and at mile 687.5.

DRAINAGE AREA.--23,596 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Mar. 1941 to current year. Prior to Oct. 1977, published as "Possum Kingdom Reservoir".
Water-quality records.--Chemical data: Mar. 1962 to Sept. 1977. Biochemical data: Feb. 1978 to Sept. 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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 reinforced concrete dam, Ambursen-type, massive buttress with flat-slab deck, a controlled spillway, two bulkhead sections, and an earthen-dike section. Total length of dam is 2,740 ft long. The dam, owned by the Brazos River Authority, was completed and storage begun Mar. 21, 1941. The spillway has nine roof-weir gates (modified bear-trap type) that are 73.66 x 13 ft each and are designed to discharge about 100,000 ft³/s at a gage height of 1,000.0 ft. The outlet works consist of one controlled 54-inch diameter conduit. Water is used for power development, irrigation, municipal, industrial, and recreational purposes. Two generators located in the powerhouse at dam can produce 22,500 kilowatts at a 1,000-foot gage height. Eleven major reservoirs, with a combined capacity of 607,800 acre-ft, largely regulate the inflow. Flow is affected at times by discharge from the flood-detention pools of 12 floodwater-retarding structures with a combined detention capacity of 24,710 acre-ft. These structures control runoff from 108 mi². Conservation pool storage is 556,220 acre-ft. Data regarding the dam are given in the following table:

	Gage height (feet)
Top of dam.....	1,024.0
Design flood (top of gates).....	1,000.0
Crest of spillway.....	987.0
Invert of penstock.....	911.5
Lowest gated outlet (invert of 54-inch conduit).....	874.8

COOPERATION.--Capacity table 3-C was provided by the Brazos River Authority. Capacity table 4-C, provided by the Texas Water Development Board, was put into use Oct. 1, 1996. All contents values above 556,200 acre-ft are estimated.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 743,700 acre-ft, Oct. 5, 1941, gage height, 1,001.0 ft; maximum gage height, 1,003.60 ft Oct. 13, 1981; minimum contents observed, 273,000 acre-ft, Feb. 19 to Mar. 17, 1953, gage height, 967.0 ft, using capacity table 3-C.

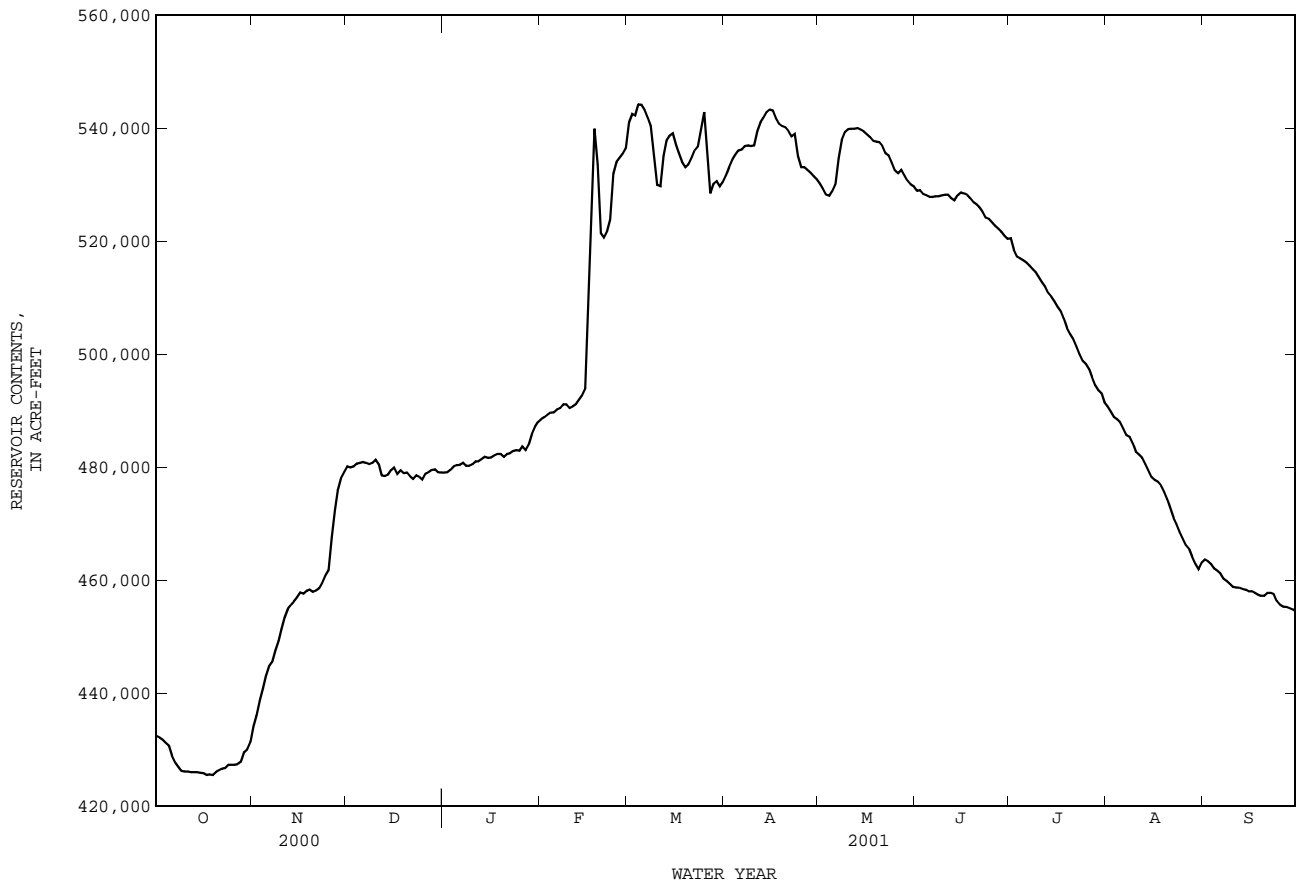
EXTREMES FOR CURRENT YEAR.--Maximum contents, 545,000 acre-ft, Mar. 4, elevation, 999.35 ft; minimum contents, 425,200 acre-ft, Oct. 17, 19, 20, elevation, 991.72 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432400	434000	480100	479000	488500	541000	531600	530100	528900	520500	490700	463600
2	432100	436000	479900	479100	488800	542500	533100	529300	529000	518400	489800	463300
3	431700	438600	480100	479500	489300	542200	534400	528200	528300	517200	488800	462800
4	431200	440800	480600	480100	489600	544200	535200	528000	528100	516900	488400	462000
5	430700	442900	480700	480300	489700	544100	536000	528900	527800	516600	487900	461600
6	428900	444700	480900	480400	490200	543200	536200	530000	527800	516200	486800	461200
7	427700	445500	480700	480700	490400	541800	536800	534600	527900	515600	485600	460200
8	426900	447500	480500	480200	491100	540300	536900	537900	527900	515000	485300	459800
9	426200	449200	480700	480200	491100	534800	536800	539300	528100	514500	484100	459300
10	426100	451300	481300	480500	490400	529900	536900	539800	528200	513600	482700	458800
11	426100	453400	480500	481000	490700	529700	539400	539900	528200	512700	482200	458700
12	426000	454900	478500	481000	491100	535100	541000	539900	527600	511900	481600	458600
13	426000	455600	478400	481400	491800	537700	541800	540000	527200	510800	480500	458400
14	426000	456200	478600	481800	492600	538600	542800	539700	528100	510100	479400	458300
15	425900	456900	479500	481600	493800	539000	543300	539400	528600	509300	478200	458000
16	425800	457800	479900	481700	510100	537000	543100	538900	528400	508300	477700	458000
17	425500	457600	478800	482000	527000	535500	541700	538400	528200	507500	477400	457700
18	425600	458100	479400	482300	539900	534000	540800	537700	527600	506300	476700	457400
19	425500	458300	478900	482300	533600	533100	540300	537600	526900	504600	475700	457200
20	426000	457900	479000	481800	521400	533600	540100	537500	526500	503500	474300	457200
21	426300	458100	478400	482300	520600	534800	539400	536800	526000	502600	472700	457700
22	426600	458500	477900	482400	521600	536000	538500	535500	525200	501400	471000	457700
23	426700	459400	478500	482800	523800	536700	538900	535100	524100	500000	469900	457500
24	427300	460700	478200	483000	531900	539800	535000	533900	523900	498800	468500	456300
25	427300	461700	477800	482900	534000	542800	533100	532500	523300	498200	467300	455600
26	427300	467500	478800	483600	534700	535800	533100	532000	522700	497300	466100	455300
27	427400	472400	479100	483000	535400	528400	532600	532600	522200	495900	465400	455200
28	427800	475900	479500	484000	536400	530100	532100	531600	521600	494500	464100	455000
29	429500	478000	479600	485900	---	530600	531500	530700	520900	493600	462900	454800
30	430000	479100	479100	487200	---	529700	530900	530000	520400	493000	461900	454500
31	431300	---	479000	488000	---	530400	---	529700	---	491400	463100	---
MAX	432400	479100	481300	488000	539900	544200	543300	540000	529000	520500	490700	463600
MIN	425500	434000	477800	479000	488500	528400	530900	528000	520400	491400	461900	454500
(+)	992.16	995.36	995.35	995.92	998.85	998.49	998.52	998.45	997.90	996.13	994.33	993.76
(@)	-1400	+47800	-100	+9000	+48400	-6000	+500	-1200	-9300	-29000	-28300	-8600
CAL YR 2000	MAX 498400	MIN 417900	(@) +52900									
WTR YR 2001	MAX 544200	MIN 425500	(@) +21800									

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

08088500 Possum Kingdom Lake near Graford, TX--Continued



BRAZOS RIVER BASIN

08088610 Brazos River near Graford, TX

LOCATION.--Lat 32°51'29", long 98°24'41", Palo Pinto County, Hydrologic Unit 12060201, on State Highway 16, 1.25 mi downstream of Morris Sheppard Dam (Formerly Possum Kingdom Dam), 1.3 mi upstream from Loving Creek, 11.3 mi southwest of Graford, and 18.8 mi upstream from Brazos River near Palo Pinto (station 08089000).

DRAINAGE AREA.--23,596 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Oct. 1989 to current year. Prior to Feb. 8, 1995, published as "Brazos River at Morris Shepard Dam near Graford" (station 08088600) at site 1.25 mi upstream.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 800.00 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1989, at least 10% of contributing drainage area has been regulated. No known diversions.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

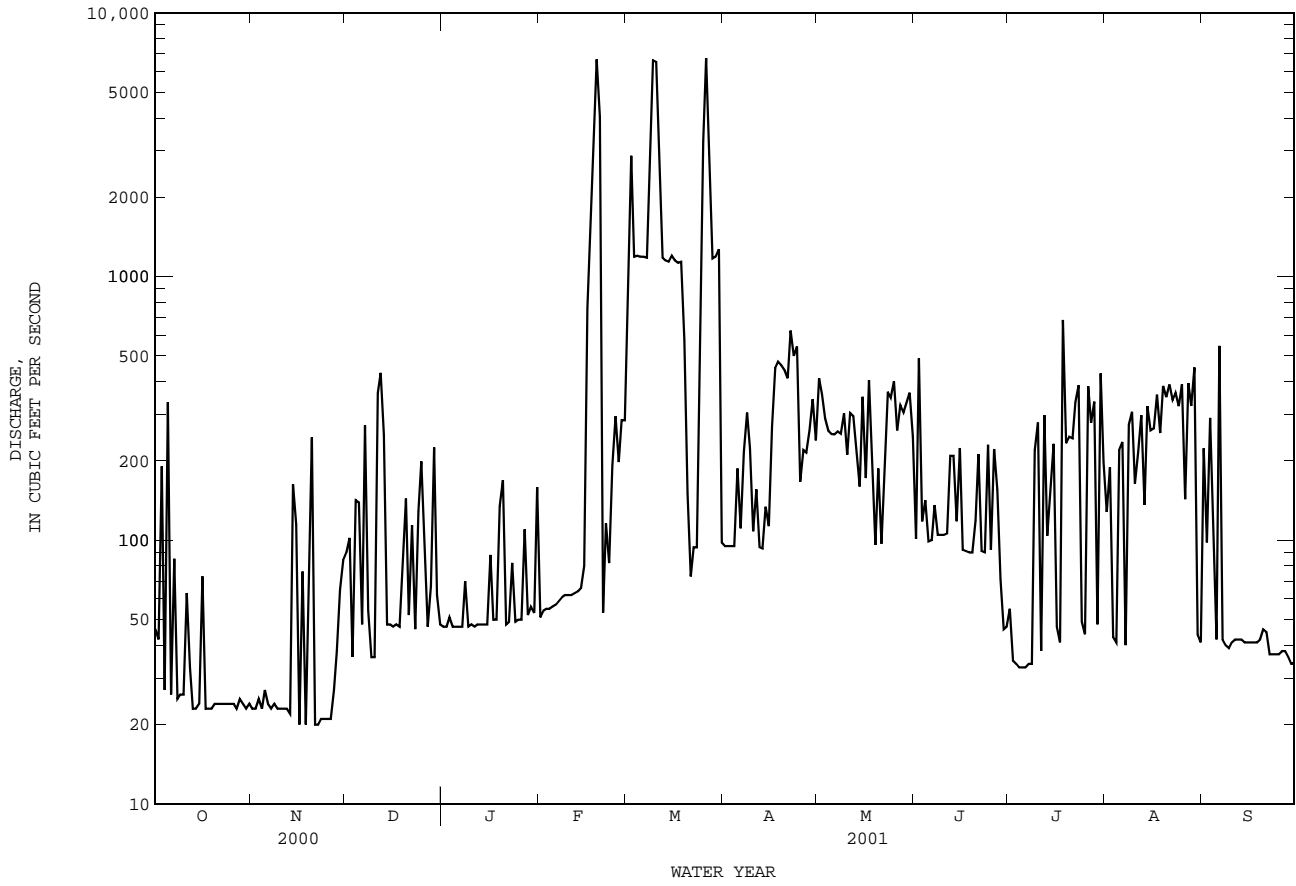
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	23	90	47	51	715	95	411	101	55	128	223
2	42	23	102	47	54	2870	95	359	489	35	189	98
3	191	25	36	51	55	1190	95	289	118	34	43	291
4	27	23	142	47	55	1200	95	260	142	33	41	121
5	334	27	139	47	56	1190	187	253	99	33	220	42
6	26	24	48	47	57	1190	111	252	100	33	236	546
7	85	23	273	47	59	1180	217	259	136	34	40	42
8	25	24	54	70	61	3330	305	254	105	34	274	40
9	26	23	36	47	62	6610	224	303	105	220	307	39
10	26	23	36	48	62	6510	108	211	105	280	164	41
11	63	23	362	47	62	3240	156	304	106	38	215	42
12	33	23	432	48	63	1180	94	296	209	298	298	42
13	23	22	251	48	64	1150	93	223	209	104	136	42
14	23	163	48	48	66	1140	134	160	118	150	323	41
15	24	115	48	48	80	1200	113	350	224	232	261	41
16	73	20	47	88	760	1150	270	172	92	47	265	41
17	23	76	48	50	1390	1130	450	405	91	41	357	41
18	23	20	47	50	2810	1140	476	193	90	684	255	41
19	23	63	77	135	6670	575	461	96	90	233	385	42
20	24	245	144	169	4040	150	443	187	119	247	349	46
21	24	20	52	48	53	73	412	97	212	243	390	45
22	24	20	114	49	116	94	624	206	91	335	340	37
23	24	21	46	82	82	94	500	366	90	387	362	37
24	24	21	129	49	192	622	543	348	230	49	323	37
25	24	21	199	50	295	3270	167	401	92	44	390	37
26	24	21	92	50	198	6740	220	261	222	384	143	38
27	23	27	47	110	285	3160	215	326	156	279	395	38
28	25	38	67	52	285	1170	261	306	71	336	324	36
29	24	65	225	56	---	1190	343	332	46	48	452	34
30	23	84	62	53	---	1270	239	363	47	429	44	34
31	24	---	48	159	---	98	---	248	---	197	41	---
TOTAL	1423	1346	3541	1987	18083	55821	7746	8491	4105	5596	7690	2275
MEAN	45.9	44.9	114	64.1	646	1801	258	274	137	181	248	75.8
MAX	334	245	432	169	6670	6740	624	411	489	684	452	546
MIN	23	20	36	47	51	73	93	96	46	33	40	34
AC-FT	2820	2670	7020	3940	35870	110700	15360	16840	8140	11100	15250	4510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	353	241	833	339	1135	1025	1042	1412	1998	458	536	588
MAX	1819	656	7172	2197	8659	4948	7952	8503	8024	1201	1228	1751
(WY)	1992	1992	1992	1992	1992	1992	1990	1990	1992	1995	1995	1996
MIN	44.2	33.5	27.8	29.6	27.8	45.4	85.1	62.9	69.9	40.6	53.0	75.8
(WY)	1999	2000	2000	2000	1999	1999	1999	1996	1996	1996	1996	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1990 - 2001
ANNUAL TOTAL	39108	118104	
ANNUAL MEAN	107	324	826
HIGHEST ANNUAL MEAN			3170
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	852	Sep 4	43800
LOWEST DAILY MEAN	20	Feb 15	4.1
ANNUAL SEVEN-DAY MINIMUM	22	Nov 21	6.6
MAXIMUM PEAK FLOW		7050	48000
MAXIMUM PEAK STAGE		76.55	89.79
ANNUAL RUNOFF (AC-FT)	77570	234300	598500
10 PERCENT EXCEEDS	271	493	1370
50 PERCENT EXCEEDS	66	96	166
90 PERCENT EXCEEDS	24	25	32

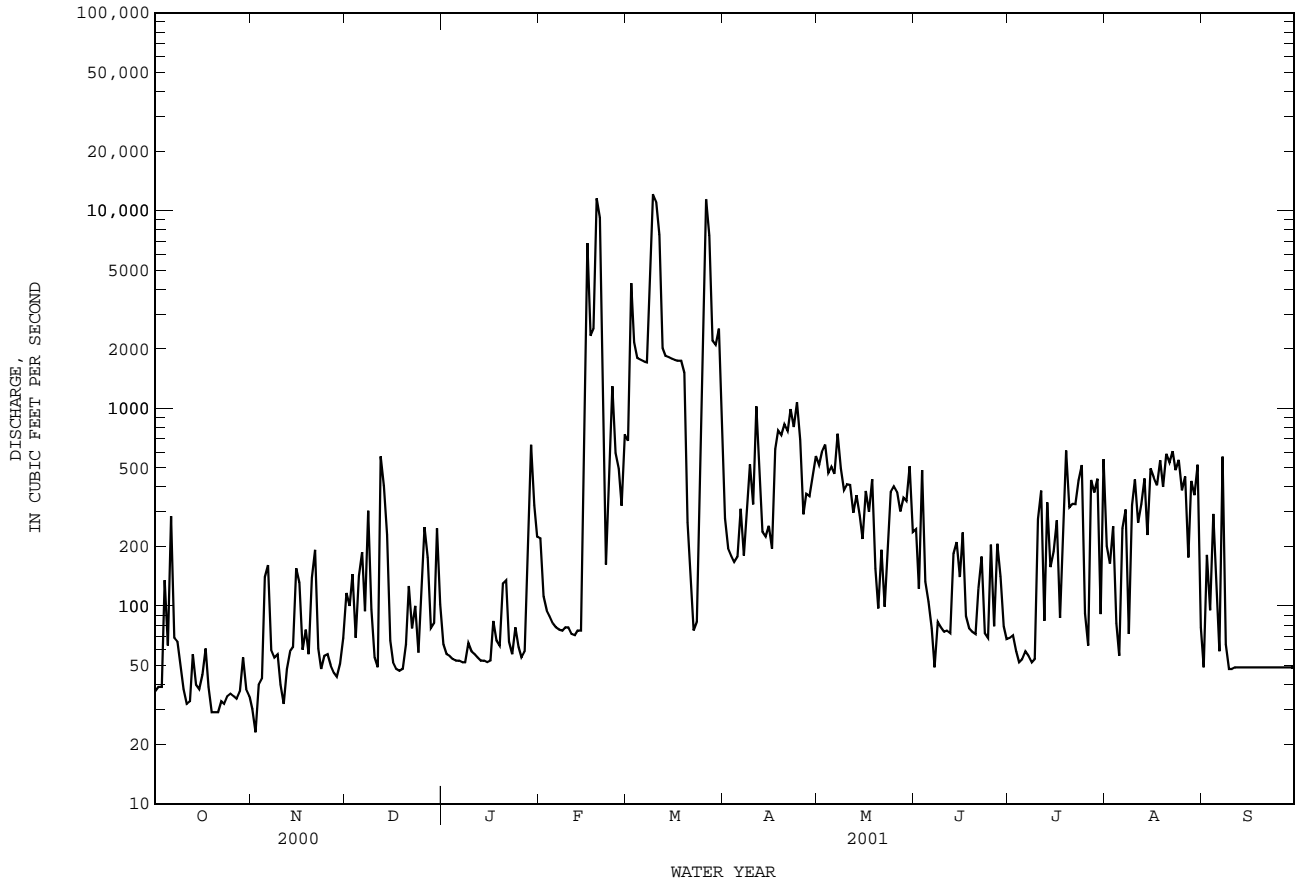
08088610 Brazos River near Graford, TX--Continued



08089000 Brazos River near Palo Pinto, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001z	
ANNUAL TOTAL	43818		195305		916	
ANNUAL MEAN	120		535		4145	
HIGHEST ANNUAL MEAN					1957	
LOWEST ANNUAL MEAN					98.5	
HIGHEST DAILY MEAN	1280	Jun 4	12100	Mar 9	81700	Apr 29 1957
LOWEST DAILY MEAN	23	Nov 2	23	Nov 2	3.4	Apr 15 1949
ANNUAL SEVEN-DAY MINIMUM	32	Oct 19	32	Oct 19	5.6	Nov 2 1940
MAXIMUM PEAK FLOW			14200		85400	
MAXIMUM PEAK STAGE			12.29		28.87	
ANNUAL RUNOFF (AC-FT)	86910		387400		663800	
10 PERCENT EXCEEDS	274		807		1650	
50 PERCENT EXCEEDS	82		133		205	
90 PERCENT EXCEEDS	41		48		30	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08090300 Lake Palo Pinto near Santo, TX

LOCATION.--Lat 32°38'51", long 98°16'08", Palo Pinto County, Hydrologic Unit 12060201, at northwest corner of intake structure on Palo Pinto Creek and 4.4 mi northwest of Santo.

DRAINAGE AREA.--461 mi².

PERIOD OF RECORD.--Apr. 1964 to Sept. 1982, Feb. 1999 to current year.

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

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rock-faced earthfill dam 1,300 ft (400 m) long with a 550 ft (170 m) uncontrolled ogee-crested emergency spillway at right end of dam. The dam was completed and storage began in Apr. 1964. During the summer of 1965, the dam was raised 2 ft (0.6 m) and the spillway crest was raised 4 ft (1.2 m) and lengthened from 500 to 550 ft (150 to 170 m). The lake is the property of Palo Pinto County Municipal Water District No. 1 and was built to impound water for municipal use, principally for the City of Mineral Wells. Water is released to the downstream channel through a 30 inch gated concrete pipe. It then flows 15 mi (24 km) downstream to a diversion lake where it is then pumped to the City of Mineral Wells. In addition, water is circulated through a steam generating power plant owned by the Brazos River Electric Power Cooperative, Inc.. Conservation storage pool is 27,650 acre-ft. Data regarding the dam and lake are given in the following table:

	Elevation (feet)
Top of dam.....	898.0
Top of design flood pool.....	893.0
Crest of spillway.....	867.0
Lowest gated outlet (invert).....	835.0

COOPERATION.--Capacity table was furnished by HDR Engineering (1985).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,060 acre-ft, Oct. 31, 1974, elevation, 871.15 ft; minimum contents, 6,730 acre-ft, Oct. 28, 2000, elevation, 853.89 ft.

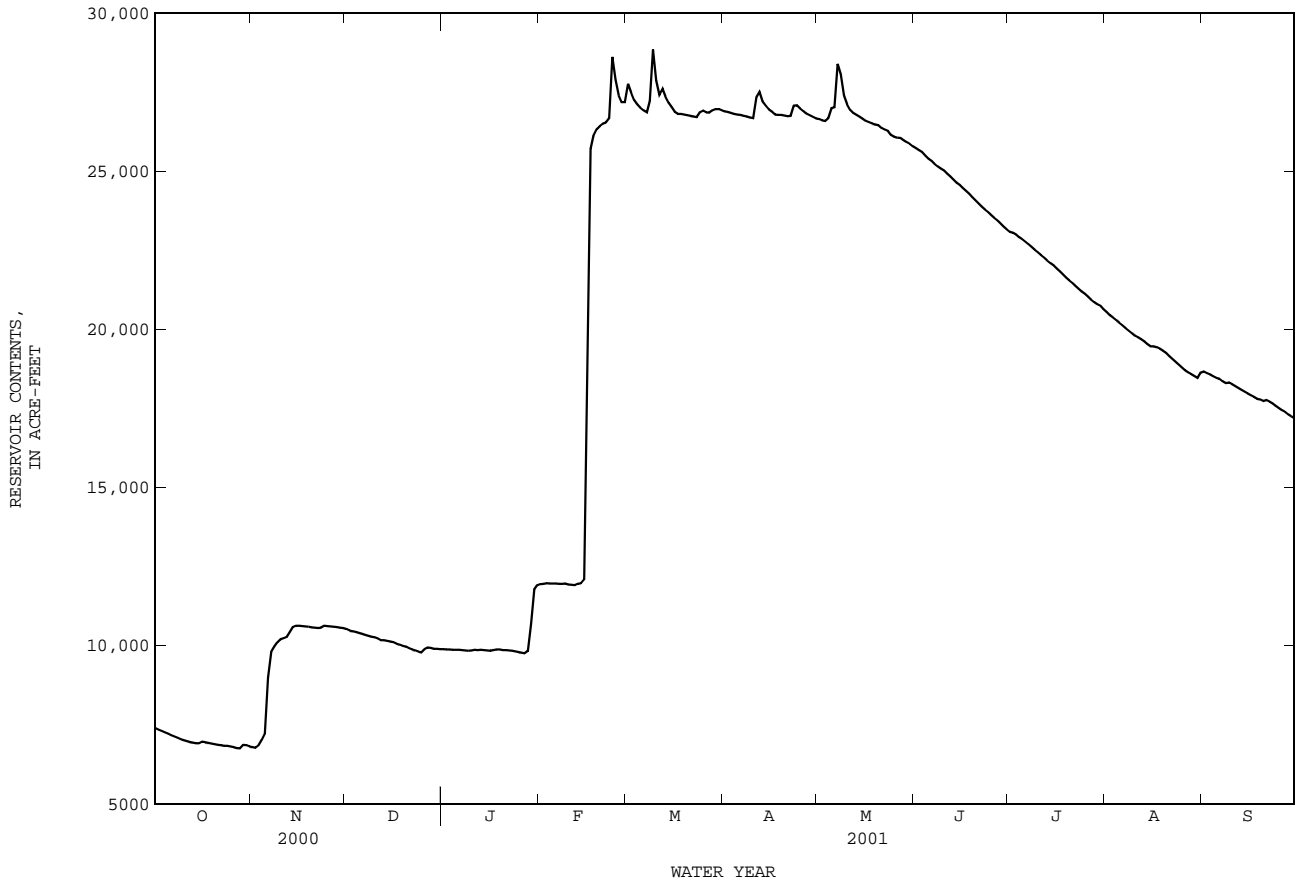
EXTREMES FOR CURRENT YEAR.--Maximum contents, 29,260 acre-ft, Mar. 9, elevation, 867.70 ft; minimum contents, 6,730 acre-ft, Oct. 28, elevation, 853.89 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7390	6800	10530	9890	11950	27760	26890	26650	25730	23090	20550	18670
2	7340	6780	10480	9880	11960	27480	26870	26610	25670	23060	20450	18610
3	7300	6860	10460	9880	11980	27260	26840	26590	25610	23000	20380	18570
4	7260	7030	10440	9870	11970	27110	26810	26680	25500	22920	20290	18510
5	7220	7210	10410	9870	11970	27000	26790	26990	25390	22850	20210	18460
6	7170	8990	10380	9870	11970	26920	26780	27020	25320	22770	20130	18440
7	7130	9800	10350	9860	11960	26860	26750	28390	25230	22690	20040	18360
8	7090	9970	10320	9850	11960	27220	26730	28050	25150	22600	19960	18300
9	7050	10120	10290	9840	11970	28840	26700	27390	25080	22520	19880	18320
10	7020	10210	10270	9850	11940	27860	26680	27100	25020	22440	19800	18270
11	6990	10240	10230	9870	11930	27410	27330	26940	24930	22350	19750	18210
12	6960	10280	10180	9860	11920	27600	27500	26840	24840	22270	19690	18150
13	6940	10440	10180	9870	11960	27360	27220	26780	24740	22180	19620	18090
14	6920	10590	10160	9860	11980	27160	27070	26720	24640	22100	19540	18030
15	6920	10630	10140	9850	12100	27020	26950	26660	24560	22020	19470	17980
16	6970	10630	10120	9840	19620	26870	26880	26590	24470	21920	19470	17920
17	6950	10620	10070	9860	25710	26810	26790	26550	24380	21830	19430	17870
18	6930	10610	10040	9880	26120	26810	26780	26510	24290	21740	19380	17810
19	6910	10600	9990	9880	26320	26790	26780	26480	24180	21640	19320	17790
20	6890	10580	9970	9860	26430	26770	26760	26460	24080	21550	19250	17730
21	6870	10570	9920	9860	26510	26750	26740	26370	23990	21470	19150	17770
22	6860	10560	9880	9850	26540	26730	26750	26310	23890	21380	19060	17710
23	6840	10570	9850	9840	26670	26710	27070	26270	23800	21290	18980	17650
24	6840	10630	9810	9820	28610	26860	27080	26150	23710	21200	18890	17580
25	6820	10620	9790	9800	27890	26910	26980	26090	23620	21120	18800	17510
26	6800	10610	9890	9780	27400	26860	26900	26060	23530	21030	18710	17440
27	6770	10600	9940	9760	27180	26850	26820	26050	23450	20940	18640	17390
28	6760	10590	9930	9830	27180	26920	26770	25980	23350	20860	18580	17310
29	6870	10570	9900	10690	---	26960	26720	25920	23250	20790	18520	17250
30	6860	10560	9900	11780	---	26960	26670	25870	23170	20740	18460	17190
31	6820	---	9890	11910	---	26920	---	25790	---	20640	18640	---
MEAN	6980	9830	10120	10010	18630	27110	26880	26610	24490	21900	19450	17960
MAX	7390	10630	10530	11910	28610	28840	27500	28390	25730	23090	20550	18670
MIN	6760	6780	9790	9760	11920	26710	26670	25790	23170	20640	18460	17190
(+)	854.02	857.43	856.90	858.51	866.79	866.68	866.58	866.19	865.05	863.70	862.62	861.84
(@)	-640	+3740	-670	+2020	+15270	-260	-250	-880	-2620	-2530	-2000	-1450
CAL YR 2000	MAX 15820	MIN 6760	(@) -5930									
WTR YR 2001	MAX 28840	MIN 6760	(@) +9730									

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

08090300 Lake Palo Pinto near Santo, TX--Continued



BRAZOS RIVER BASIN

08090700 Lake Mineral Wells near Mineral Wells, TX

LOCATION.--Lat 32°49'00", long 98°02'30", Parker County, Hydrologic Unit 12060201, 150 ft to left of left side of dam, 1 mi north of US 180 on east side of Mineral Wells.

DRAINAGE AREA.--63 mi².

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

GAGE.--A data collection platform (DCP) and accububbler are housed in a 3 x 3 ft metal shelter 150 ft left of the left downstream side of dam. Datum of gage is 865 ft above mean sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records poor. The lake is formed by a rolled earthfill dam 1,760 ft long. There is an uncontrolled spillway with a width of 1,145 ft. The dam was built by the city of Mineral Wells and was completed in 1920. The dam is owned by the Palo Pinto County Municipal Water District. Water is used for municipal, industrial, and recreational uses. Conservation pool storage is 5,494 acre-ft. Data regarding the dam are given in the following table:

	Gage height
	(feet)
Top of dam.....	880.0
Conservation pool elevation.....	863.0

COOPERATION.--Capacity table was furnished by HDR Engineering (1990).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 6,360 acre-ft, Feb. 16, 2001, elevation, 864.66 ft; minimum contents, 3,870 acre-ft, Mar. 1, 2, 2000, elevation, 858.97 ft.

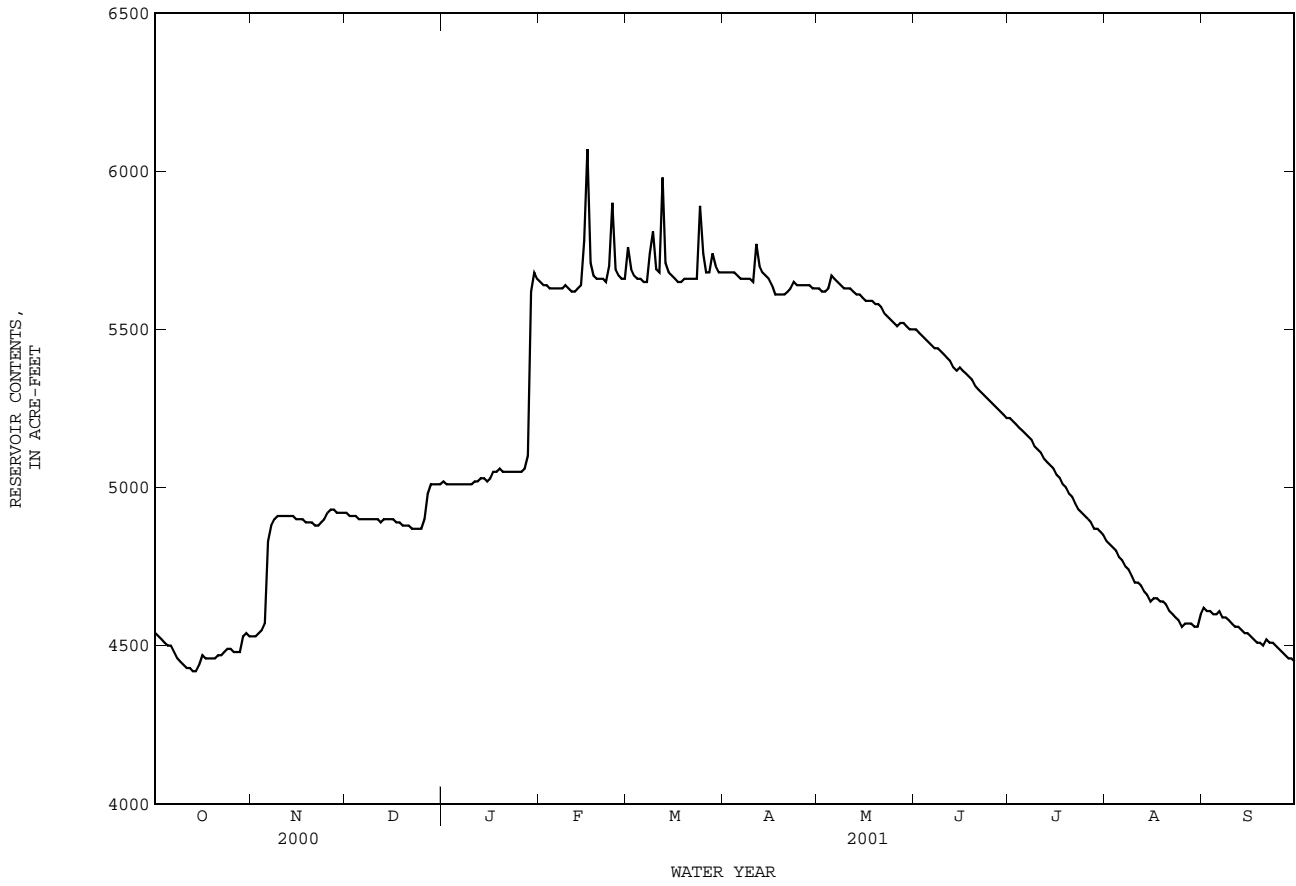
EXTREMES FOR CURRENT YEAR.--Maximum contents, 6,360 acre-ft, Feb. 16, elevation, 864.66 ft; minimum contents, 4,410 acre-ft, Oct. 13, elevation, 860.45 ft.

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

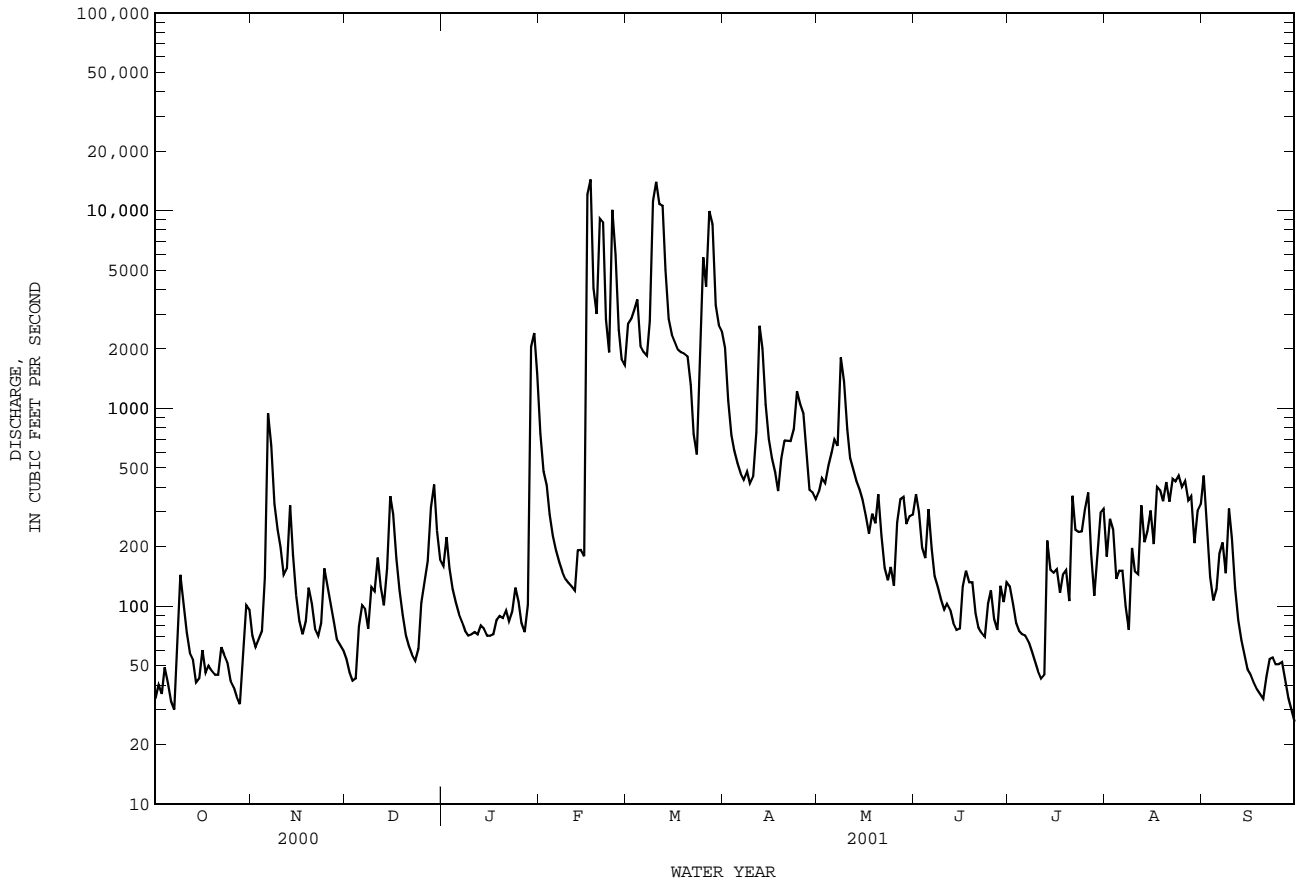
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4540	4530	4920	5020	5650	5760	5680	5630	5500	5220	4830	4620
2	4530	4530	4910	5010	5640	5690	5680	5620	5490	5210	4820	4610
3	4520	4540	4910	5010	5640	5670	5680	5620	5480	5200	4810	4610
4	4510	4550	4910	5010	5630	5660	5680	5630	5470	5190	4800	4600
5	4500	4570	4900	5010	5630	5660	5670	5670	5460	5180	4780	4600
6	4500	4830	4900	5010	5630	5650	5660	5660	5450	5170	4770	4610
7	4480	4880	4900	5010	5630	5650	5660	5650	5440	5160	4750	4590
8	4460	4900	4900	5010	5630	5740	5660	5640	5440	5150	4740	4590
9	4450	4910	4900	5010	5640	5810	5660	5630	5430	5130	4720	4580
10	4440	4910	4900	5010	5630	5690	5650	5630	5420	5120	4700	4570
11	4430	4910	4900	5020	5620	5680	5770	5630	5410	5110	4700	4560
12	4430	4910	4890	5020	5620	5980	5700	5620	5400	5090	4690	4560
13	4420	4910	4900	5030	5630	5710	5680	5610	5380	5080	4670	4550
14	4420	4910	4900	5030	5640	5680	5670	5610	5370	5070	4660	4540
15	4440	4900	4900	5020	5780	5670	5660	5600	5380	5060	4640	4540
16	4470	4900	4900	5030	6070	5660	5640	5590	5370	5040	4650	4530
17	4460	4900	4890	5050	5710	5650	5610	5590	5360	5030	4650	4520
18	4460	4890	4890	5050	5670	5650	5610	5590	5350	5010	4640	4510
19	4460	4890	4880	5060	5660	5660	5610	5580	5340	5000	4640	4510
20	4460	4890	4880	5050	5660	5660	5610	5580	5320	4980	4630	4500
21	4470	4880	4880	5050	5660	5660	5620	5570	5310	4970	4610	4520
22	4470	4880	4870	5050	5650	5660	5630	5550	5300	4950	4600	4510
23	4480	4890	4870	5050	5700	5660	5650	5540	5290	4930	4590	4510
24	4490	4900	4870	5050	5900	5890	5640	5530	5280	4920	4580	4500
25	4490	4920	4870	5050	5690	5740	5640	5520	5270	4910	4560	4490
26	4480	4930	4900	5050	5670	5680	5640	5510	5260	4900	4570	4480
27	4480	4930	4980	5060	5660	5680	5640	5520	5250	4890	4570	4470
28	4480	4920	5010	5100	5660	5740	5640	5520	5240	4870	4570	4460
29	4530	4920	5010	5620	---	5700	5630	5510	5230	4870	4560	4460
30	4540	4920	5010	5680	---	5680	5630	5500	5220	4860	4560	4450
31	4530	---	5010	5660	---	5680	---	5500	---	4850	4600	---
MEAN	4480	4840	4910	5090	5680	5700	5650	5590	5360	5040	4670	4540
MAX	4540	4930	5010	5680	6070	5980	5770	5670	5500	5220	4830	4620
MIN	4420	4530	4870	5010	5620	5650	5610	5500	5220	4850	4560	4450
(+)	860.73	861.64	861.87	863.38	863.39	863.43	863.32	863.03	862.37	861.47	860.89	860.53
(@)	-20	+390	+90	+650	0	+20	-50	-130	-280	-370	-250	-150
CAL YR 2000	MAX 5980	MIN 3870	(@) + 940									
WTR YR 2001	MAX 6070	MIN 4420	(@) - 100									

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

08090700 Lake Mineral Wells near Mineral Wells, TX--Continued



08090800 Brazos River near Dennis, TX--Continued



BRAZOS RIVER BASIN

08090900 Lake Granbury near Granbury, TX

LOCATION.--Lat 32°22'27", long 97°41'20", Hood County, Hydrologic Unit 12060201, at right end of spillway of DeCordova Bend Dam on Brazos River, 2.6 mi upstream from Fall Creek, 7.5 mi southeast of Granbury, and at mile 542.5.

DRAINAGE AREA.--25,679 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Oct. 1968 to current year.

Water-quality records.--Chemical data: Sept. 1970 to Sept. 1997. Biochemical data: Sept. 1970 to Sept. 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1.11 ft below sea level. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by an Ambursen-type concrete and earthfill dam 2,256 ft long, including a 932-ft concrete spillway. The dam was completed on Aug. 30, 1969, and deliberate impoundment began Sept. 15, 1969. The spillway consists of sixteen 36- by 35-ft tainter gates and two 7- by 8-ft sluice gates. Outflow through the sluice gates discharges into a bay where the outflow is then controlled by two 4- by 4.5-ft sluice gates with invert at 625.8 ft. Flow is affected at times by discharge from the flood-detention pools of 12 floodwater-retarding structures with a combined detention capacity of 13,940 acre-ft. These structures control runoff from 53.9 mi² in the East Keechi, Kickapoo, and Ruckers Creeks drainage basins. The lake was built by the Brazos River Authority for the conservation of water for irrigation, municipal, and industrial uses. Water is also diverted into Squaw Creek Reservoir (station 08091730, conservation pool storage 151,030 acre-ft). The city of Granbury returns wastewater effluent into Lake Granbury. Conservation pool storage is 136,823 acre-ft. Data regarding the dam are given in the following table:

	Gage height (feet)
Top of dam.....	706.5
Top of tainter gates (design flood).....	693.0
Crest of spillway.....	658.0
Lowest gated outlet (invert).....	640.0

COOPERATION.--The capacity table, Table No. 2-C, was provided by the Texas Water Development Board and put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 158,800 acre-ft, Mar. 27, 1977, gage height, 693.60 ft; minimum contents since normal operating level was reached in Oct. 1969, 97,600 acre-ft, Aug. 9, 1978, gage height, 685.28 ft, using Capacity Table 1-C.

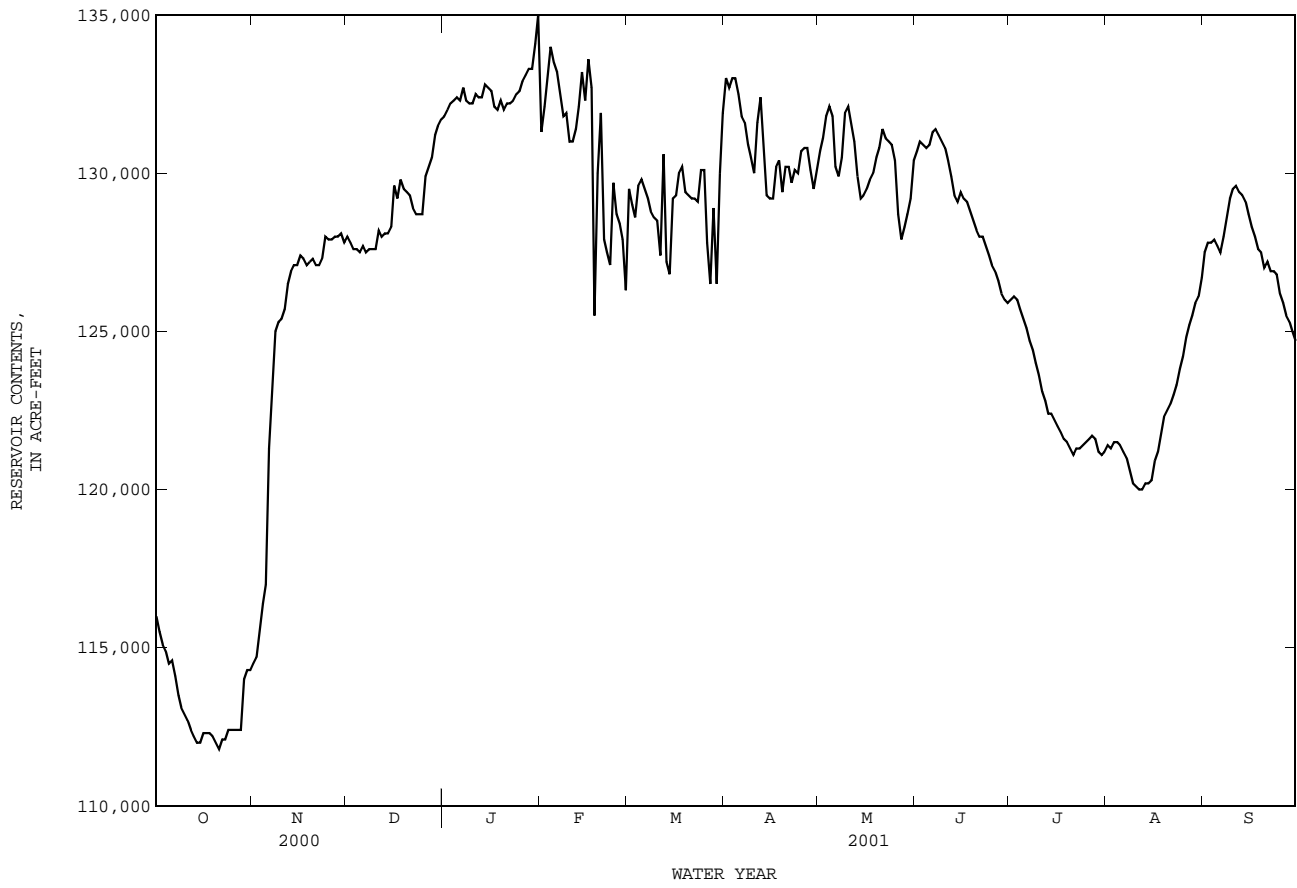
EXTREMES FOR CURRENT YEAR.--Maximum contents, 137,000 acre-ft, Feb. 16, elevation, 693.03 ft; minimum contents, 111,500 acre-ft, Oct. 21, elevation, 689.63 ft.

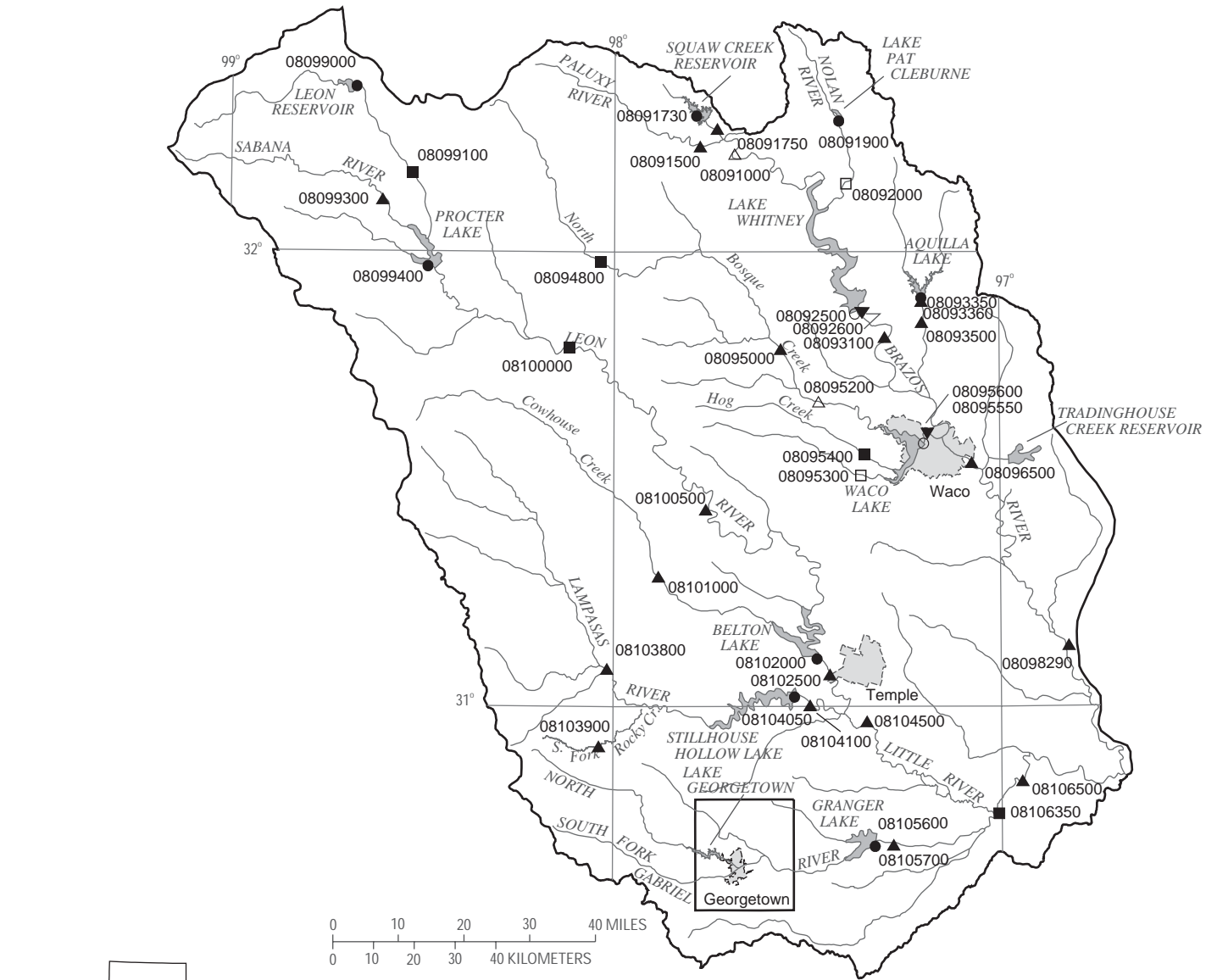
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116000	114500	128000	131800	131300	129500	133000	130700	130700	126000	121400	127500
2	115500	114700	127800	132000	132100	129000	132700	131100	131000	126100	121300	127800
3	115100	115500	127600	132200	133100	128600	133000	131800	130900	126000	121500	127800
4	114900	116400	127600	132300	134000	129600	133000	132100	130800	125700	121500	127900
5	114500	117000	127500	132400	133500	129800	132500	131800	130900	125400	121400	127700
6	114600	121300	127700	132300	133200	129500	131800	130200	131300	125100	121200	127500
7	114100	123400	127500	132700	132500	129200	131600	129900	131400	124700	121000	128000
8	113500	125000	127600	132300	131800	128800	130900	130500	131200	124400	120600	128600
9	113100	125300	127600	132200	131900	128600	130500	131900	131000	124000	120200	129200
10	112900	125400	127600	132200	131000	128500	130000	132100	130800	123600	120100	129500
11	112700	125700	128200	132500	131000	127400	131600	131600	130400	123100	120000	129600
12	112400	126500	128000	132400	131400	130600	132400	131000	129900	122800	120000	129400
13	112200	126900	128100	132400	132100	127200	131100	129900	129300	122400	120200	129300
14	112000	127100	128100	132800	133200	126800	129300	129200	129100	122400	120200	129100
15	112000	127100	128300	132700	132300	129200	129200	129300	129400	122200	120300	128700
16	112300	127400	129600	132600	133600	129300	129200	129500	129200	122000	120900	128300
17	112300	127300	129200	132100	132700	130000	130200	129800	129100	121800	121200	128000
18	112300	127100	129800	132000	125500	130200	130400	130000	128800	121600	121800	127600
19	112200	127200	129500	132300	130000	129400	129400	130500	128500	121500	122300	127500
20	112000	127300	129400	132000	131900	129300	130200	130800	128200	121300	122500	127000
21	111800	127100	129300	132200	127900	129200	130200	131400	128000	121100	122700	127200
22	112100	127100	128900	132200	127500	129200	129700	131100	128000	121300	123000	126900
23	112100	127300	128700	132300	127100	129100	130100	131000	127700	121300	123300	126900
24	112400	128000	128700	132500	129700	130100	130000	130900	127400	121400	123800	126800
25	112400	127900	128700	132600	128700	130100	130700	130400	127100	121500	124200	126200
26	112400	127900	129900	132900	128400	127800	130800	128700	126900	121600	124800	125900
27	112400	128000	130200	133100	127900	126500	130800	127900	126600	121700	125200	125500
28	112400	128000	130500	133300	126300	128900	130100	128300	126200	121600	125500	125300
29	114000	128100	131200	133300	---	126500	129500	128700	126000	121200	125900	125000
30	114300	127800	131500	134100	---	130000	130100	129200	125900	121100	126100	124700
31	114300	---	131700	135000	---	131900	---	130400	---	121200	126700	---
MEAN	113100	124800	128800	132600	130800	129000	130800	130400	129100	122800	122300	127500
MAX	116000	128100	131700	135000	134000	131900	133000	132100	131400	126100	126700	129600
MIN	111800	114500	127500	131800	125500	126500	129200	127900	125900	121100	120000	124700
(+)	690.02	691.85	692.35	692.77	691.65	692.38	692.14	692.18	691.61	690.96	691.71	691.44
(@)	-2400	+13500	+3900	+3300	-8700	+5600	-1800	+300	-4500	-4700	+5500	-2000
CAL YR 2000	MAX 134900	MIN 111800	(@) +10000									
WTR YR 2001	MAX 135000	MIN 111800	(@) +8000									

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

08090900 Lake Granbury near Granbury, TX--Continued





EXPLANATION

- 08091500 ▲ **Surface-water continuous station and number**
- 08095200 △ **Surface-water continuous/water-quality station and number**
- 08102000 ● **Reservoir station and number**
- 08095550 ○ **Reservoir/water-quality station and number**
- 08092600 ▼ **Water-quality station and number**
- 08100000 ■ **Surface-water partial record/stage only station and number**
- 08095300 □ **Surface-water partial record/stage only/water-quality station and number**

Figure 7.--Map showing location of gaging stations in the third section of the Brazos River Basin

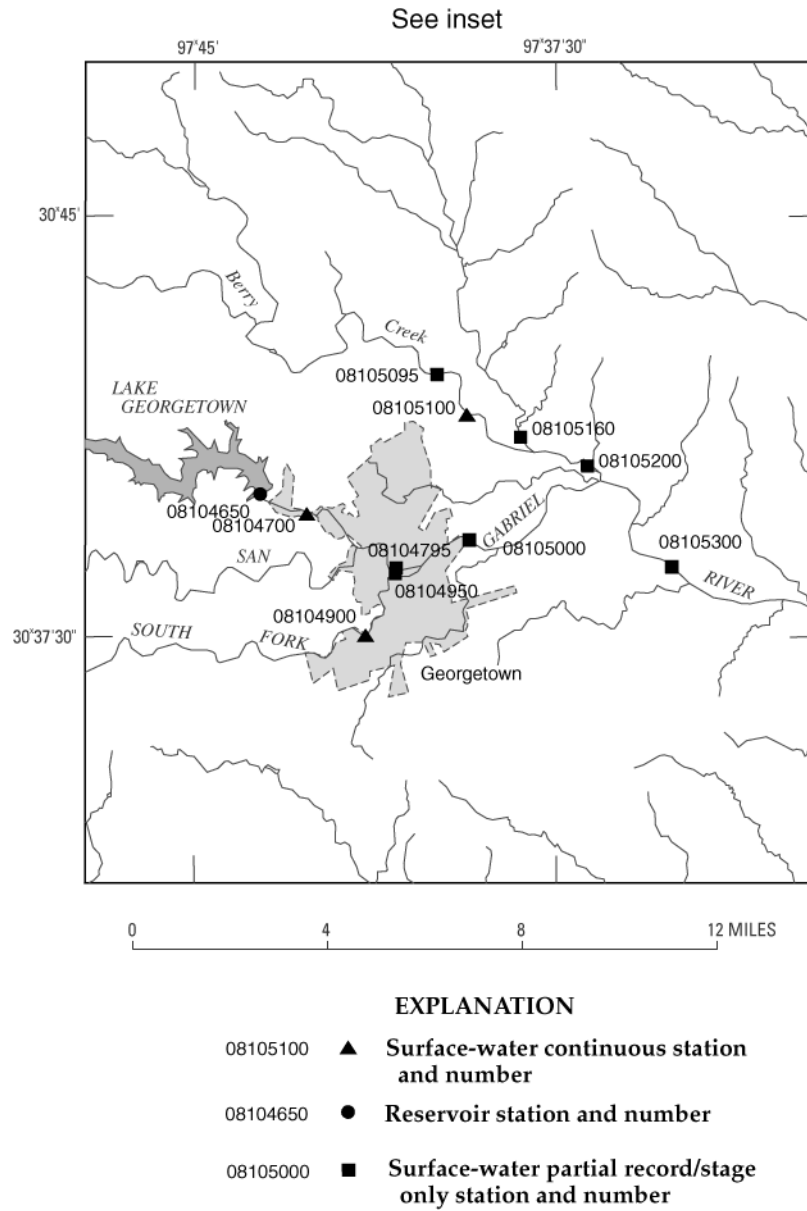


Figure 8.--Map showing location of gaging stations in the Georgetown inset of the Brazos River Basin

08091000	Brazos River near Glen Rose, TX	296
08091500	Paluxy River at Glen Rose, TX	300
08091730	Squaw Creek Reservoir near Glen Rose, TX	302
08091750	Squaw Creek near Glen Rose, TX	304
08091900	Lake Pat Cleburne near Cleburne, TX	306
08092000	Nolan River at Blum, TX	308
08092500	Lake Whitney near Whitney, TX	312
08092600	Brazos River at Whitney Dam near Whitney, TX	328
08093100	Brazos River near Aquilla, TX	330
08093350	Aquilla Lake above Aquilla, TX	332
08093360	Aquilla Creek above Aquilla, TX	334
08093500	Aquilla Creek near Aquilla, TX	336
08094800	North Bosque River at Hico, TX	338
08095000	North Bosque River near Clifton, TX	340
08095200	North Bosque River at Valley Mills, TX	342
08095300	Middle Bosque River near McGregor, TX	346
08095400	Hog Creek near Crawford, TX	348
08095550	Waco Lake near Waco, TX	350
08095600	Bosque River near Waco, TX	362
08096500	Brazos River at Waco, TX	364
08098290	Brazos River near Highbank, TX	366
08099000	Leon Reservoir near Ranger, TX	368
08099100	Leon River near De Leon, TX	370
08099300	Sabana River near DeLeon, TX	372
08099400	Proctor Lake near Proctor, TX	374
08100000	Leon River near Hamilton, TX	376
08100500	Leon River at Gatesville, TX	378
08101000	Cowhouse Creek at Pidcoke, TX	380
08102000	Belton Lake near Belton, TX	382
08102500	Leon River near Belton, TX	384
08103800	Lampasas River near Kempner, TX	386
08103900	South Fork Rocky Creek near Briggs, TX	388
08104050	Stillhouse Hollow Lake near Belton, TX	390
08104100	Lampasas River near Belton, TX	392
08104500	Little River near Little River, TX	394
08104650	Lake Georgetown near Georgetown, TX	396
08104700	North Fork San Gabriel River near Georgetown, TX	398
08104795	North Fork San Gabriel River upstream from State Highway at Georgetown, TX	455
08104900	South Fork San Gabriel River at Georgetown, TX	400
08104950	South Fork San Gabriel River upstream from State Highway at Georgetown, TX	455
08105000	San Gabriel River at Georgetown, TX	455
08105095	Berry Creek upstream from IH-35 near Georgetown, TX	455
08105100	Berry Creek near Georgetown, TX	402
08105160	Dry Berry Creek near Georgetown, TX	455
08105200	Berry Creek at State Highway 971 near Georgetown, TX	455
08105300	San Gabriel River near Weir, TX	455
08105600	Granger Lake near Granger, TX	404
08105700	San Gabriel River near Laneport, TX	406
08106350	Little River near Rockdale, TX	408
08106500	Little River at Cameron, TX	410

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BRAZOS RIVER BASIN

08091000 Brazos River near Glen Rose, TX

LOCATION.--Lat 32°16'18", long 97°39'48", Somervell County, Hydrologic Unit 12060202, at downstream side of bridge on U.S. Highway 67, 600 ft downstream from Georgés Creek, 4.1 mi upstream from Paluxy River, 6.0 mi northeast of Glen Rose, and at mile 511.2.

DRAINAGE AREA.--25,818 mi², of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1923 to current year.

REVISED RECORDS.--WSP 1058: 1932. WSP 1512: 1946-47, 1949. WSP 1712: 1928(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 567.82 ft above sea level. Prior to May 7, 1931, nonrecording gage at site 2.5 mi downstream at same datum. May 7, 1931, to Sept. 30, 1957, water-stage recorder at site 2.4 mi downstream at same datum, used as supplementary gage Oct. 1, 1957, to Apr. 1, 1959. Apr. 27, 1950, to Sept. 30, 1957, water-stage recorder, present gage, used as supplementary gage. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since 1941, at least 10% of contributing drainage area has been regulated. There are many diversions above station for irrigation and municipal supplies, and for oil field operations.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--17 years (water years 1924-40) prior to regulation by Possum Kingdom Lake, 1,581 ft³/s (1,145,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-40)--Maximum discharge, 97,600 ft³/s May 18, 1935 (gage height, 23.68 ft, from floodmarks); no flow at times prior to construction of Morris Sheppard Dam in 1941 on the Brazos River, forming Possum Kingdom Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Second highest known flood since at least 1876 occurred in May 1922 and reached a stage of 29.5 ft, and flood in May 1908 reached a stage of 27 ft, each at site 2.4 mi downstream, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	56	58	110	3690	2730	2870	271	213	84	49	149
2	18	44	57	106	615	5340	2850	197	174	127	46	101
3	19	52	57	102	240	4370	1870	208	154	124	47	58
4	19	66	58	101	196	4880	1710	236	132	83	48	70
5	18	98	59	98	540	4040	1690	1410	128	65	46	59
6	16	254	61	96	808	3200	1670	2800	121	61	34	47
7	18	127	62	90	815	3180	1670	2040	120	57	22	42
8	22	77	62	91	817	3480	1670	1660	116	51	20	37
9	25	60	64	84	1150	10300	1660	1650	127	49	35	41
10	27	53	62	86	865	15700	1630	1650	132	48	40	49
11	30	44	61	99	422	13800	798	1650	132	47	40	54
12	33	69	57	100	188	12000	547	1660	127	45	41	40
13	34	78	61	101	157	12200	4460	1630	117	38	39	30
14	34	67	65	96	151	4750	3360	1590	122	43	40	23
15	35	55	69	94	1500	2930	1890	614	144	53	37	31
16	53	50	67	96	10700	3060	1640	261	137	50	38	33
17	59	45	64	529	22800	2620	645	205	120	47	53	29
18	58	43	68	767	14000	2830	335	187	111	47	64	27
19	47	42	68	216	1690	3340	1390	184	109	47	55	27
20	43	41	63	145	4840	2770	1030	183	105	42	50	27
21	49	40	60	126	12600	2760	1010	169	103	30	40	37
22	64	41	58	115	7070	1900	1730	170	113	36	28	39
23	67	44	59	114	2610	1660	1730	176	110	64	17	42
24	71	56	61	109	8320	2280	1720	150	88	64	22	30
25	52	61	75	106	9550	5110	1720	134	59	62	28	24
26	39	60	157	105	5260	7960	1730	1100	49	61	36	22
27	38	55	188	105	3720	6380	1720	1540	60	60	45	18
28	41	52	158	125	6090	10400	1690	561	99	58	48	20
29	195	57	126	2830	---	8380	1640	219	89	55	48	37
30	173	56	112	3210	---	2080	632	174	68	54	57	32
31	86	---	118	2030	---	2880	---	221	---	50	115	---
TOTAL	1502	1943	2415	12182	121404	169310	50707	24900	3479	1802	1328	1275
MEAN	48.5	64.8	77.9	393	4336	5462	1690	803	116	58.1	42.8	42.5
MAX	195	254	188	3210	22800	15700	4460	2800	213	127	115	149
MIN	16	40	57	84	151	1660	335	134	49	30	17	18
AC-FT	2980	3850	4790	24160	240800	335800	100600	49390	6900	3570	2630	2530

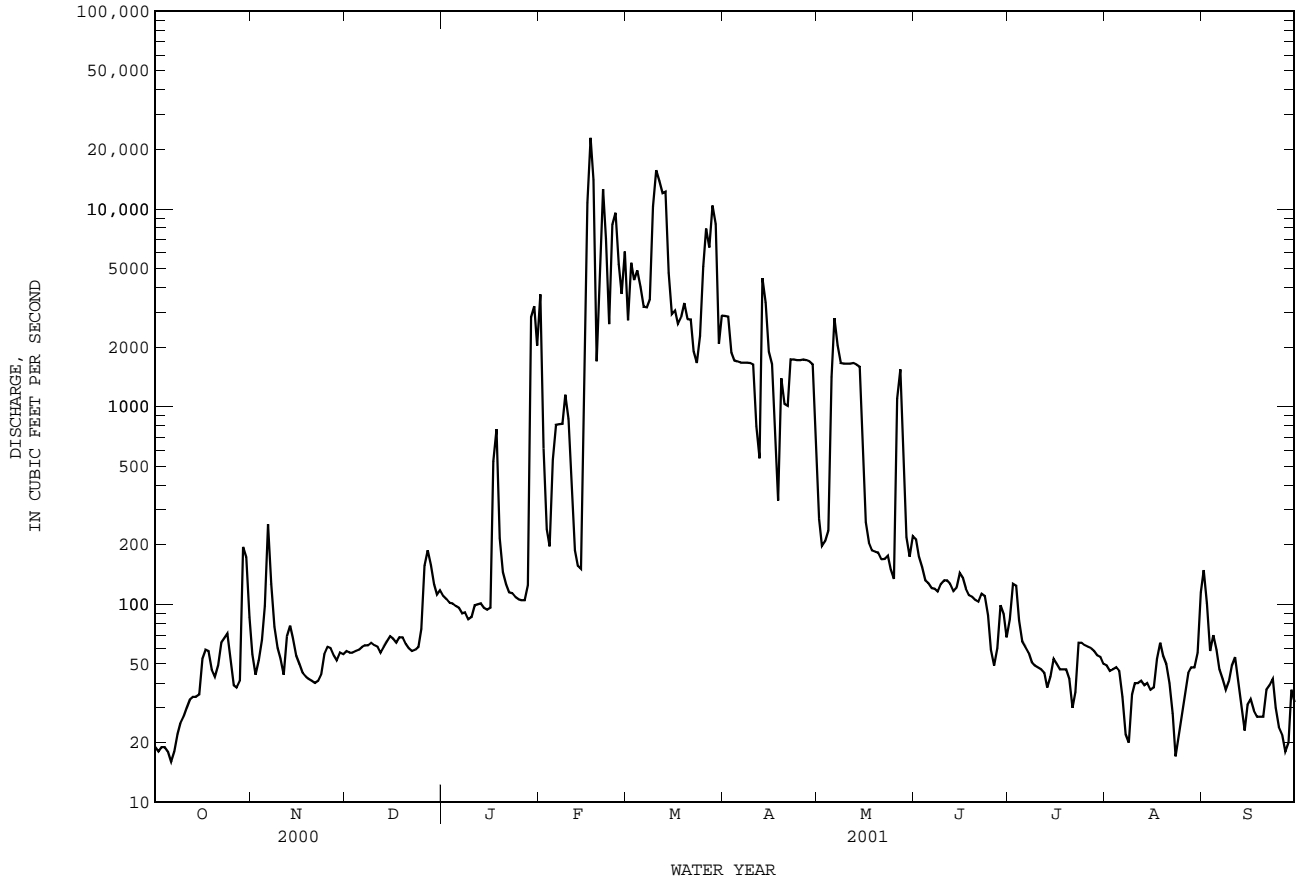
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001z, BY WATER YEAR (WY)

MEAN	1745	804	751	571	1017	1084	1322	3195	2254	999	784	1068
MAX	17860	6209	14960	3180	11290	6684	14360	44800	13660	4873	6621	9994
(WY)	1982	1975	1992	1968	1992	1992	1990	1957	1982	1982	1978	1966
MIN	7.42	13.7	25.1	32.1	15.9	34.3	9.99	15.7	17.5	12.1	12.3	15.9
(WY)	1953	1989	1989	2000	1984	1974	1974	1996	1996	1978	2000	1998

08091000 Brazos River near Glen Rose, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001z	
ANNUAL TOTAL	48182.2		392247		1301	
ANNUAL MEAN	132		1075		5494	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					115	
HIGHEST DAILY MEAN	11600	Jun 4	22800	Feb 17	85100	May 1 1957
LOWEST DAILY MEAN	1.6	May 17	16	Oct 6	.10	Oct 30 1952
ANNUAL SEVEN-DAY MINIMUM	4.1	May 12	18	Oct 1	.36	Oct 27 1952
MAXIMUM PEAK FLOW			24400	Feb 17	89600	Dec 21 1991
MAXIMUM PEAK STAGE			18.47	Feb 17	35.76	Apr 28 1990
ANNUAL RUNOFF (AC-FT)	95570		778000		942500	
10 PERCENT EXCEEDS	111		2900		2450	
50 PERCENT EXCEEDS	27		98		336	
90 PERCENT EXCEEDS	8.8		35		35	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08091000 Brazos River near Glen Rose, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Aug. 1946 to Nov. 1946, Oct. 1980 to June 1987, Oct. 1998 to current year.

BIOCHEMICAL DATA: Oct. 1980 to June 1987, Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

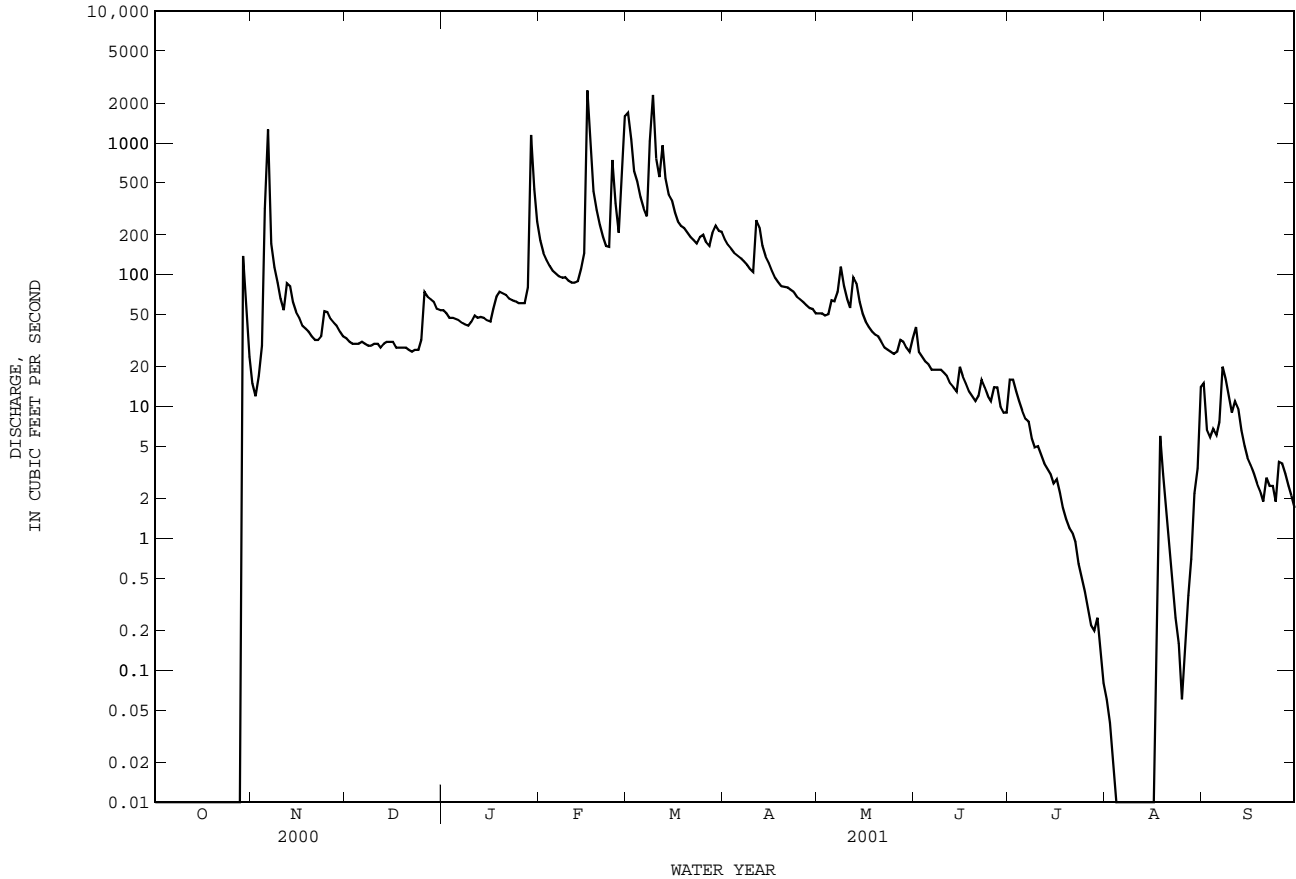
DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DEMAND, (PER-CENT SATUR-ATION) (00301)	OXYGEN, 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)	
FEB	12...	176	1900	8.4	9.5	4.0	--	10.6	93.6	<2.0	337	211	91.9	
MAR	21...	2750	1900	7.9	16.2	18	--	10.5	109	<2.0	316	211	93.8	
MAY	21...	1550	1190	8.5	24.0	3.2	--	8.9	107	<2.0	357	255	102	
AUG	02...	1327	2180	8.4	33.9	--	7.7	14.0	204	<2.0	324	--	83.0	
DATE	TIME	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)
FEB	12...	26.0	271	6.44	6.97	125	191	424	.4	4.3	1130	1090	<10	--
MAR	21...	19.9	239	5.85	5.96	105	212	419	.3	6.4	1160	1060	10	.222
MAY	21...	24.9	261	6.00	5.47	123	213	429	.4	7.4	1190	1100	<10	--
AUG	02...	28.3	307	7.42	7.39	100	223	513	.3	8.0	1300	--	13	--
DATE	TIME	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 CU) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	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)
FEB	12...	E.003	.210	<.041	.34	<.060	<.018	6.9	10	.22	E1.5	143	<.06	.07
MAR	21...	.007	.229	<.041	.39	<.060	E.010	7.1	--	--	--	--	--	--
MAY	21...	<.006	<.050	E.023	.33	<.060	<.020	5.5	3	.22	E1.9	120	<.06	.08
AUG	02...	<.006	<.050	<.040	.36	<.060	<.020	7.8	3	.18	3.7	152	E.03	<.04
DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB	12...	<.8	.21	2.0	<30	.11	8.4	<.23	3.1	<.06	<2.4	<1.0	3	1.57
MAR	21...	--	--	--	20	--	4.4	--	--	--	--	--	--	--
MAY	21...	E.5	.25	15.3	<10	.13	4.3	--	2.2	.97	<2.0	<1.0	11	2.01
AUG	02...	<.8	.13	2.4	<10	<.08	1.2	<.01	2.4	<.10	<2.0	<1.0	2	1.59

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08091500 Paluxy River at Glen Rose, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001z	
ANNUAL TOTAL	10340.33		38678.10		99.9	
ANNUAL MEAN	28.3		106		361	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1260	Nov 6	2500	Feb 16	17200	Dec 20 1991
LOWEST DAILY MEAN	.00	Jun 2	.00	Oct 1	.00	Aug 28 1983
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 31	.00	Oct 1	.00	Aug 28 1983
MAXIMUM PEAK FLOW			4740		32300	
MAXIMUM PEAK STAGE			8.56		21.28	
ANNUAL RUNOFF (AC-FT)	20510		76720		72360	
10 PERCENT EXCEEDS	50		220		166	
50 PERCENT EXCEEDS	11		31		20	
90 PERCENT EXCEEDS	.00		.00		1.4	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08091730 Squaw Creek Reservoir near Glen Rose, TX

LOCATION.--Lat 32°18'00", long 97°47'12", Somervell County, Hydrologic Unit 12060202, on upstream side of intake structure near power house on Squaw Creek, 1.8 mi upstream from dam, 3.9 mi north of Glen Rose, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--64.0 mi².

PERIOD OF RECORD.--Feb. 1977 to current year.

Water-quality records.--Chemical data: Oct. 1982 to Sept. 1984.

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

REMARKS.--Records good. The reservoir is formed by a rolled earthfill dam 4,360 ft long. Deliberate impoundment began in Feb. 1977, and the dam was completed in June 1977. The flood-control outlet works consist of an ungated 100-foot-long concrete ogee spillway located at right end of dam. The low-flow outlet works consist of a concrete outlet tower with three 4 by 6-foot slide gates and one 6 by 6-foot slide gate, which feed into a 6-foot inside diameter concrete conduit that extends through the dam. The dam is owned by Texas Utilities Services Inc. Water can be diverted by pipeline from Lake Granbury (station 08090900, conservation pool storage 136,823 acre-ft) into this reservoir. Conservation pool storage is 151,030 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	796.0
Crest of spillway.....	783.0
Crest of spillway (normal operating level)(top of conservation pool)..	775.0
Invert of slide gate (No. 1).....	764.0
Invert of slide gate (No. 2).....	715.0
Invert of slide gate (No. 3).....	666.5
Lowest gated outlet (invert).....	653.0

COOPERATION.--Capacity Table 1-C was provided by Texas Utilities Services, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 164,700 acre-ft, Dec. 19, 1991, elevation, 779.14 ft; minimum contents since first appreciable storage in 1979, 141,200 acre-ft, Sept. 16, 1992, elevation, 771.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 153,700 acre-ft, Nov. 6, Mar. 9, elevation, 775.83 ft; minimum contents, 149,700 acre-ft, May 3, elevation, 774.63 ft.

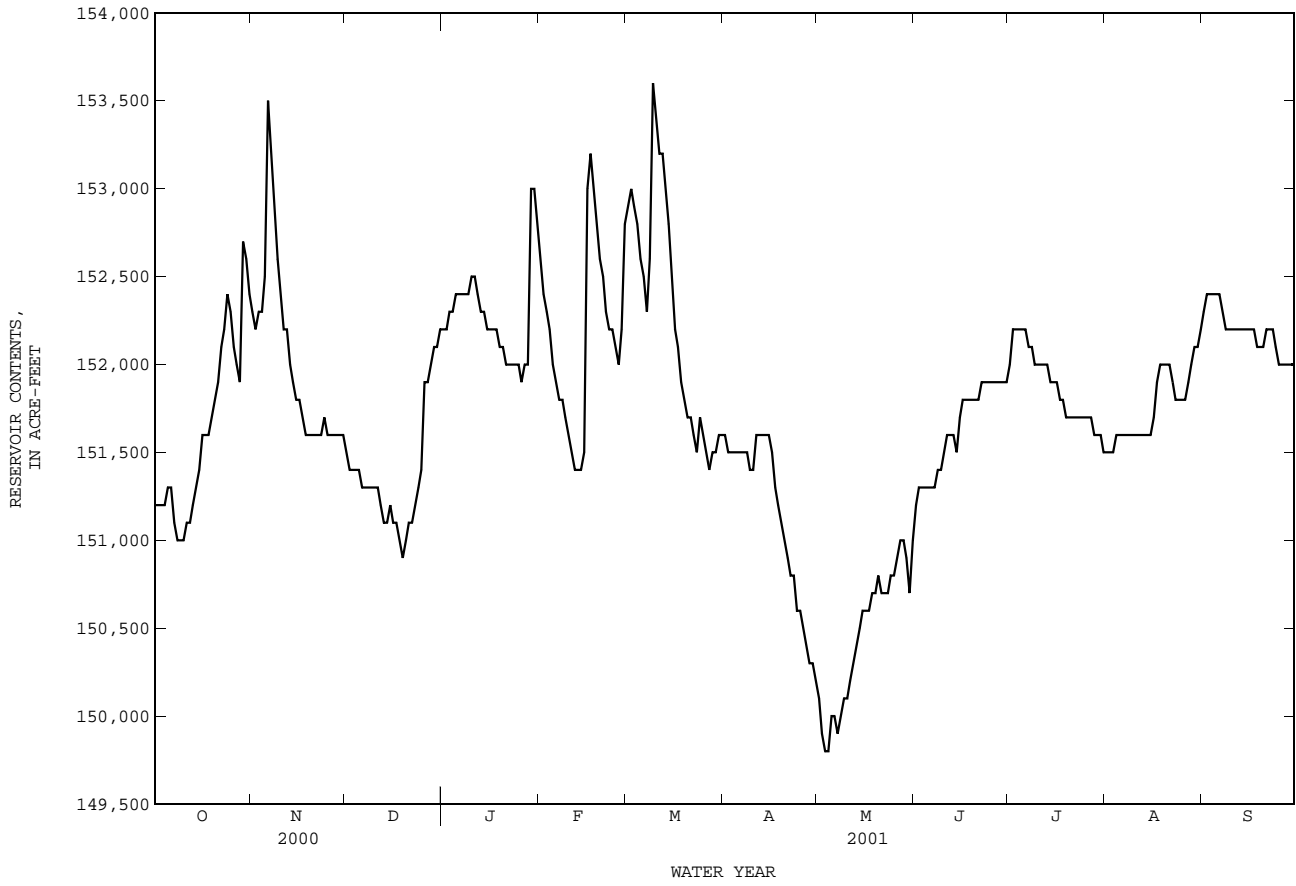
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151200	152300	151500	152200	152600	152900	151600	150100	151200	152000	151500	152300
2	151200	152200	151400	152200	152400	153000	151500	149900	151300	152200	151500	152400
3	151200	152300	151400	152300	152300	152900	151500	149800	151300	152200	151500	152400
4	151200	152300	151400	152300	152200	152800	151500	149800	151300	152200	151600	152400
5	151300	152500	151400	152400	152000	152600	151500	150000	151300	152200	151600	152400
6	151300	153500	151300	152400	151900	152500	151500	150000	151300	152200	151600	152400
7	151100	153200	151300	152400	151800	152300	151500	149900	151300	152100	151600	152300
8	151000	152900	151300	152400	151800	152600	151500	150000	151400	152100	151600	152200
9	151000	152600	151300	152400	151700	153600	151400	150100	151400	152000	151600	152200
10	151000	152400	151300	152500	151600	153400	151400	150100	151500	152000	151600	152200
11	151100	152200	151300	152500	151500	153200	151600	150200	151600	152000	151600	152200
12	151100	152200	151200	152400	151400	153200	151600	150300	151600	152000	151600	152200
13	151200	152000	151100	152300	151400	153000	151600	150400	151600	152000	151600	152200
14	151300	151900	151100	152300	151400	152800	151600	150500	151500	151900	151600	152200
15	151400	151800	151200	152200	151500	152500	151600	150600	151700	e151900	151600	152200
16	151600	151800	151100	152200	153000	152200	151500	150600	151800	e151900	151700	152200
17	151600	151700	151100	152200	153200	152100	151300	150600	151800	e151800	151900	152200
18	151600	151600	151000	152200	153000	151900	151200	150700	151800	e151800	152000	152100
19	151700	151600	150900	152100	152800	151800	151100	150700	151800	e151700	152000	152100
20	151800	151600	151000	152100	152600	151700	151000	150800	151800	e151700	152000	152100
21	151900	151600	151100	152000	152500	151700	150900	150700	151800	151700	152000	152200
22	152100	151600	151100	152000	152300	151600	150800	150700	151900	151700	151900	152200
23	152200	151600	151200	152000	152200	151500	150800	150700	151900	151700	151800	152200
24	152400	151700	151300	152000	152200	151700	150600	150800	151900	151700	151800	152100
25	152300	151600	151400	152000	152100	151600	150600	150800	151900	151700	151800	152000
26	152100	151600	151900	151900	152000	151500	150500	150900	151900	151700	151800	152000
27	152000	151600	151900	152000	152200	151400	150400	151000	151900	151700	151900	152000
28	151900	151600	152000	152000	152800	151500	150300	151000	151900	151600	152000	152000
29	152700	151600	152100	153000	---	151500	150300	150900	151900	151600	152100	152000
30	152600	151600	152100	153000	---	151600	150200	150700	151900	151600	152100	152000
31	152400	---	152200	152800	---	151600	---	151000	---	151500	152200	---
MEAN	151600	152000	151400	152300	152200	152300	151100	150500	151600	151900	151800	152200
MAX	152700	153500	152200	153000	153200	153600	151600	151000	151900	152200	152200	152400
MIN	151000	151600	150900	151900	151400	151400	150200	149800	151200	151500	151500	152000
(+)	775.45	775.18	775.37	775.56	775.55	775.20	774.75	775.03	775.28	775.18	775.39	775.32
(@)	+1100	-800	+600	+600	0	-1200	-1400	+800	+900	-400	+700	-200
CAL YR 2000	MAX 157200	MIN 148100	(@)	+2200								
WTR YR 2001	MAX 153600	MIN 149800	(@)	+700								

e Estimated

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

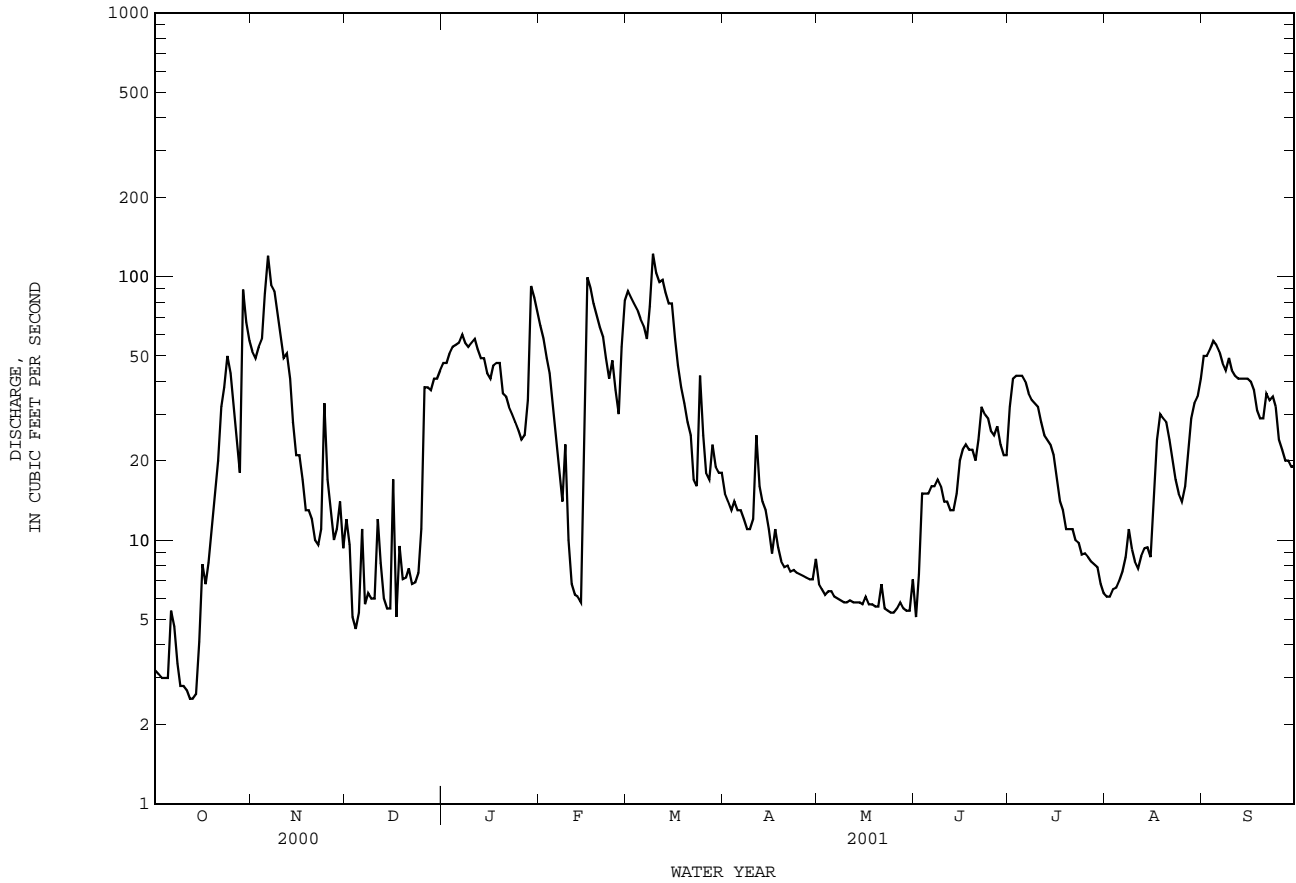
08091730 Squaw Creek Reservoir near Glen Rose, TX--Continued



08091750 Squaw Creek near Glen Rose, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001z	
ANNUAL TOTAL	7448.5		9894.7		19.5	
ANNUAL MEAN	20.4		27.1		89.9	
HIGHEST ANNUAL MEAN					2.18	
LOWEST ANNUAL MEAN					4380	
HIGHEST DAILY MEAN	1050	Jun 4	122	Mar 9	Dec 20 1991	
LOWEST DAILY MEAN	2.5	Oct 12	2.5	Oct 12	Aug 5 1996	
ANNUAL SEVEN-DAY MINIMUM	2.8	Oct 8	2.8	Oct 8	Oct 22 1992	
MAXIMUM PEAK FLOW			403		8940	
MAXIMUM PEAK STAGE			4.93		11.85	
ANNUAL RUNOFF (AC-FT)	14770		19630		14150	
10 PERCENT EXCEEDS	43		58		27	
50 PERCENT EXCEEDS	4.9		19		4.1	
90 PERCENT EXCEEDS	3.4		5.8		2.3	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08091900 Lake Pat Cleburne near Cleburne, TX

LOCATION.--Lat 32°17'20", long 97°24'54", Johnson County, Hydrologic Unit 12060202, at side of walkway from dam to outlet structure near left end of Cleburne Dam on Nolan river, 2.2 mi upstream from Buffalo Creek, 4.3 mi south of Cleburne, and 21.4 mi upstream from mouth.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--Apr. 1965 to Sept. 1985, June 1998 to current year.

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

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rock-faced earthfill dam 5,050 ft long, including a 150-ft wide uncontrolled concrete service spillway at left end of dam. A spillway, 500 ft wide, is cut in ground on the right bank about 400 ft from right end of dam. Storage began Aug. 4, 1964. Lake is the property of the city of Cleburne and was built to impound water for municipal use. Conservation pool storage is 25,730 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	753.0
Top of design flood pool.....	752.3
Crest of emergency spillway.....	744.0
Crest of service spillway (top of conservation pool).....	733.5
Lowest gated outlet (invert).....	690.0

COOPERATION.--Capacity table provided by Homer Hunter Associates, Consulting Engineers for the city of Cleburne and is based on 1958 survey from U.S. Geological Survey topographic maps. Capacity table replaced by Texas Water Development Board, Apr. 1998 survey, and put into effect on Oct. 1, 2000.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 32,420 acre-ft, June 15, 2000, elevation, 737.58 ft; minimum 14,500 acre-ft on Oct. 5, 6, 1984, elevation, 724.85 ft.

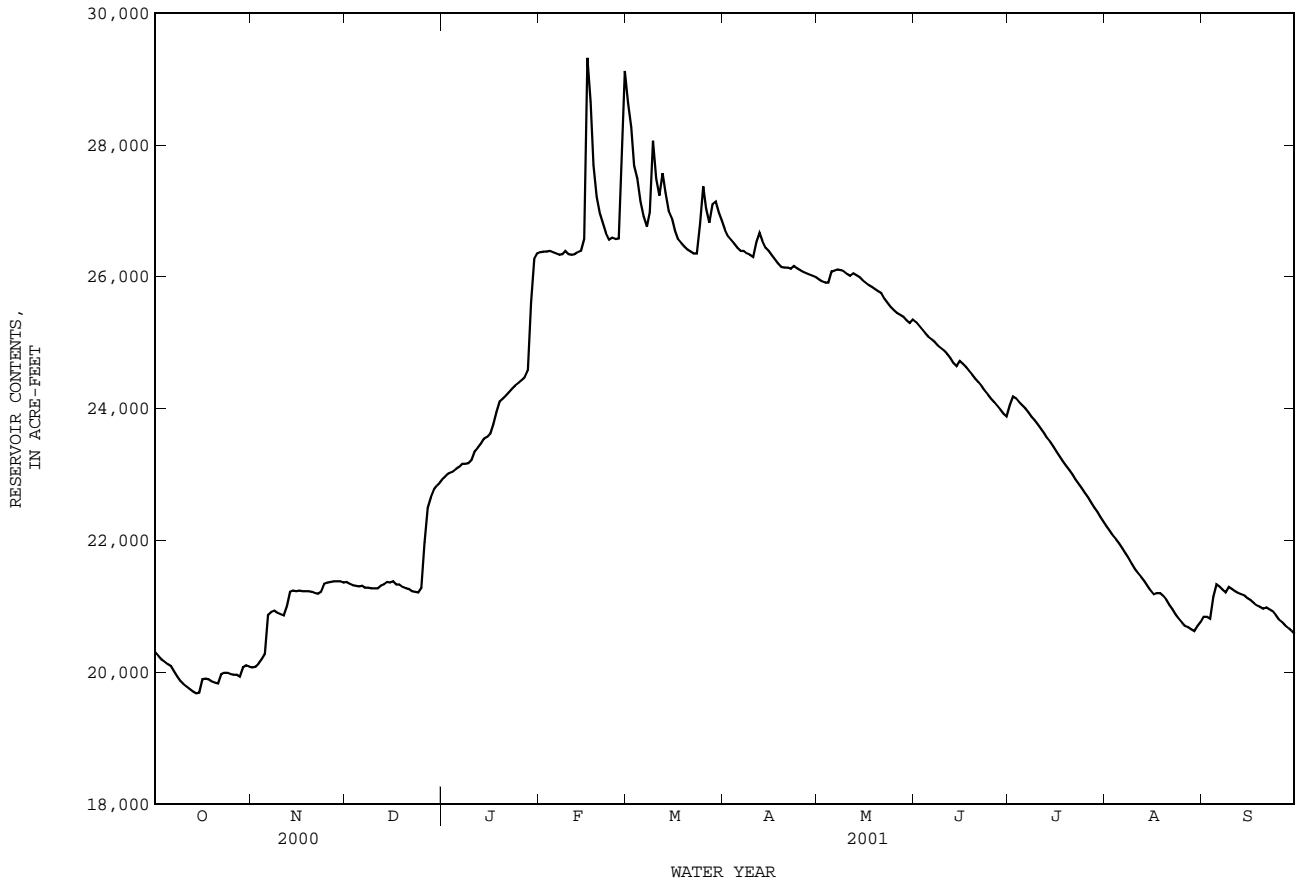
EXTREMES FOR CURRENT YEAR.--Maximum contents, 29,860 acre-ft, Feb. 16, elevation, 736.42 ft; minimum contents, 19,630 acre-ft, Oct. 15, elevation, 729.40 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20300	20070	21370	22940	26370	28640	26710	25960	25310	24050	22210	20840
2	20240	20080	21340	22990	26380	28270	26610	25930	25260	24180	22140	20840
3	20190	20130	21320	23020	26380	27680	26550	25910	25200	24150	22070	20810
4	20160	20200	21310	23040	26390	27490	26500	25910	25140	24100	22010	21140
5	20120	20270	21300	23080	26370	27140	26440	26080	25090	24050	21950	21330
6	20090	20870	21310	23110	26350	26910	26390	26090	25050	24000	21880	21300
7	20010	20910	21280	23160	26330	26760	26390	26110	25010	23940	21800	21250
8	19930	20930	21280	23160	26340	26980	26350	26100	24960	23870	21730	21210
9	19870	20900	21270	23170	26390	28060	26330	26080	24920	23820	21640	21290
10	19820	20880	21270	23220	26340	27490	26300	26040	24880	23760	21570	21260
11	19780	20860	21270	23350	26330	27230	26520	26010	24830	23690	21500	21230
12	19740	21000	21310	23400	26340	27570	26660	26050	24770	23620	21440	21200
13	19710	21220	21330	23460	26370	27280	26540	26020	24690	23550	21380	21180
14	19680	21240	21370	23540	26390	27000	26440	25990	24640	23490	21310	21160
15	19690	21230	21360	23570	26570	26890	26390	25950	24720	23420	21240	21120
16	19890	21240	21380	23620	29320	26690	26320	25910	24680	23340	21180	21090
17	19900	21230	21330	23760	28660	26570	26260	25870	24630	23270	21200	21050
18	19890	21230	21330	23950	27690	26510	26200	25840	24570	23200	21200	21010
19	19860	21230	21290	24110	27210	26460	26150	25810	24510	23130	21160	20990
20	19840	21220	21270	24150	26960	26410	26140	25780	24450	23070	21100	20960
21	19830	21200	21260	24200	26800	26380	26140	25750	24400	23000	21020	20980
22	19970	21190	21230	24250	26660	26350	26120	25660	24340	22930	20950	20950
23	19990	21220	21220	24300	26560	26350	26160	25600	24270	22860	20880	20920
24	19990	21340	21210	24350	26590	26800	26130	25540	24210	22790	20810	20870
25	19970	21360	21270	24390	26570	27370	26100	25490	24150	22720	20750	20800
26	19960	21370	21960	24430	26580	27030	26070	25450	24100	22650	20700	20760
27	19960	21380	22490	24470	27510	26820	26050	25420	24040	22580	20680	20710
28	19930	21380	22650	24580	29120	27100	26030	25390	23980	22500	20650	20670
29	20070	21380	22770	25610	---	27140	26010	25340	23920	22430	20620	20630
30	20100	21360	22830	26270	---	26970	25990	25300	23880	22350	20700	20580
31	20080	---	22880	26350	---	26850	---	25350	---	22280	20760	---
MEAN	19950	21000	21550	23900	26850	27070	26300	25800	24620	23320	21300	21000
MAX	20300	21380	22880	26350	29320	28640	26710	26110	25310	24180	22210	21330
MIN	19680	20070	21210	22940	26330	26350	25990	25300	23880	22280	20620	20580
(+)	729.72	730.62	731.65	733.89	735.60	734.20	733.66	733.26	732.31	731.25	730.20	730.09
(@)	-280	+1280	+1520	+3470	+2770	-2270	-860	-640	-1470	-1600	-1520	-180
CAL YR 2000	MAX 30430	MIN 14900	(@) +5870									
WTR YR 2001	MAX 29320	MIN 19680	(@) +220									

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

08091900 Lake Pat Cleburne near Cleburne, TX--Continued



BRAZOS RIVER BASIN

08092000 Nolan River at Blum, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 32°09'02", long 97°24'09", Hill County, Hydrologic Unit 12060202, on right bank 60 ft upstream from bridge on Farm Road 933, 0.6 mi northwest of Blum 2.8 mi downstream from Mustang Creek, 3.0 mi downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 3.2 mi upstream from Rock Creek, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--282 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1924 to Sept. 1925, Nov. 1947 to Sept. 1985 (daily mean discharge). Oct. 1985 to current year (peaks above base discharge).

REVISED RECORDS.--WSP 1312: 1925(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 551.48 ft above sea level. July 29, 1924, to Sept. 30, 1925, and Nov. 14, 1947, to May 28, 1949, nonrecording gage at railway bridge (now abandoned) 0.5 mi upstream at datum 5.00 ft higher. May 29 to July 7, 1949, nonrecording gage at present site and datum then in use (5.00 ft higher than present datum). Satellite telemeter at station.

REMARKS.--Records fair. Since water year 1965, at least 10% of contributing drainage area has been regulated. The city of Cleburne diverts water from Lake Pat Cleburne and returns wastewater effluent to a tributary upstream.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--17 years (water years 1925, 1949-64) prior to regulation by Lake Pat Cleburne, 66.1 ft³/s (47,890 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--21 years (water years 1965-85), 81.2 ft³/s (58,830 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925, 1949-64).--Maximum discharge prior to regulation by Lake Pat Cleburne, 25,000 ft³/s May 17, 1949 (gage height, 24.0 ft, from floodmark).

EXTREMES FOR REGULATED PERIOD.--Maximum discharge, 79,600 ft³/s May 17, 1989 (gage height, 33.44 ft), from rating curve extended above 22,200 ft³/s on basis of contracted-opening measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1887, 35.0 ft May 8, 1922, present site and datum, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,220 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0100	2,370	6.36	Mar. 8	2245	2,530	6.53
Feb. 16	0800	12,000	15.02	Mar. 12	0500	2,570	6.57
Feb. 28	0015	6,030	9.84				

08092000 Nolan River at Blum, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1998 to current year.

BIOCHEMICAL DATA: Oct. 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED 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)	
FEB	12...	0941	58	528	8.2	8.1	3.1	--	11.1	94.3	<2.0	201	23	71.6
MAR	21...	0840	16	536	8.1	11.6	--	--	11.2	103	<2.0	217	27	77.3
MAY	21...	1035	4.6	629	8.2	21.0	2.2	--	9.0	103	<2.0	238	31	83.5
AUG	01...	1147	.27	610	8.7	28.6	--	9.8	12.0	159	<2.0	140	23	44.1
DATE	TIME	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)
FEB	12...	5.38	26.3	.808	5.94	178	44.3	23.6	.3	1.5	318	297	<10	2.48
MAR	21...	5.78	23.8	.704	4.19	190	41.1	21.5	.3	5.8	330	304	21	2.31
MAY	21...	7.19	37.6	1.06	7.14	208	64.5	30.9	.4	3.6	402		<10	2.09
AUG	01...	7.21	61.3	2.25	12.9	117	102	47.0	.4	9.5	388	356	12	--
DATE	TIME	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)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
FEB	12...	.012	2.49	<.041	.55	.143	.124	.380	5.9	2	.25	E1.5	55.4	<.06
MAR	21...	.023	2.34	<.041	.47	.073	.054	.166	5.2	--	--	--	--	--
MAY	21...	.032	2.12	E.039	.55	.107	.084	.258	8.3	3	.31	E1.5	66.5	<.06
AUG	01...	<.006	.141	E.027	.70	.069	.060	.184	8.6	7	.29	6.2	45.0	E.03
DATE	TIME	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
FEB	12...	.43	E.5	.44	3.5	<10	.32	10.7	<.23	56.5	1.26	<2.4	<1.0	9
MAR	21...	--	--	--	--	M	--	6.5	--	--	--	--	--	--
MAY	21...	.35	E.7	.57	--	<10	.38	2.9	--	45.0	3.02	<2.0	<1.0	--
AUG	01...	.23	<.8	.64	1.3	M	.10	7.0	<.01	119	1.85	<2.0	<1.0	3

BRAZOS RIVER BASIN

08092000 Nolan River at Blum, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB 12...	.75
MAR 21...	--
MAY 21...	.82
AUG 01...	.59

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BRAZOS RIVER BASIN

08092500 Lake Whitney near Whitney, TX

LOCATION.--Lat 31°51'55", long 97°22'18", Bosque County, Hydrologic Unit 12060202, on State Highway 22, in intake structure of Whitney Dam on Brazos River, 2.4 mi upstream from Coon Creek, 3.5 mi upstream from Iron Creek, 7.4 mi southwest of Whitney, at mile 442.4.

DRAINAGE AREA.--27,189 mi², approximately, of which 9,566 mi² probably is noncontributing.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Dec. 1951 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Prior to Oct. 1970, published as "Whitney Reservoir". Prior to Oct. 1980, published as "Whitney Lake".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The lake is formed by a concrete-gravity and rolled earthfill dam 17,695 ft long, including spillway. The dam was completed in Apr. 1951, and deliberate impoundment began Dec. 10, 1951. Concrete spillway is 680 ft long and includes 17 tainter gates 38.0 by 40.0 ft each. Outlet works are comprised of 16 gate-operated conduits that are 5.0- by 9.0 ft each. The space between elevations 522.0 and 571.0 ft is reserved for flood-control storage. At maximum design elevation of 573.0 ft the spillway is designed to discharge 684,000 ft³/s. The capacity table is based on a survey made in Apr. and May 1959. Conservation pool storage is 627,302 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	584.0
Design flood.....	573.0
Top of gates.....	571.0
Crest of spillway (sill of gates).....	533.0
Top of conservation pool (top of designated power storage).....	533.0
Lowest controlled outlet (invert).....	448.8

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,980,000 acre-ft, May 29, 1957, elevation, 570.25 ft; minimum since power pool elevation first reached in Apr. 1954, 250,200 acre-ft, Nov. 1, 1956, elevation 509.52 ft.

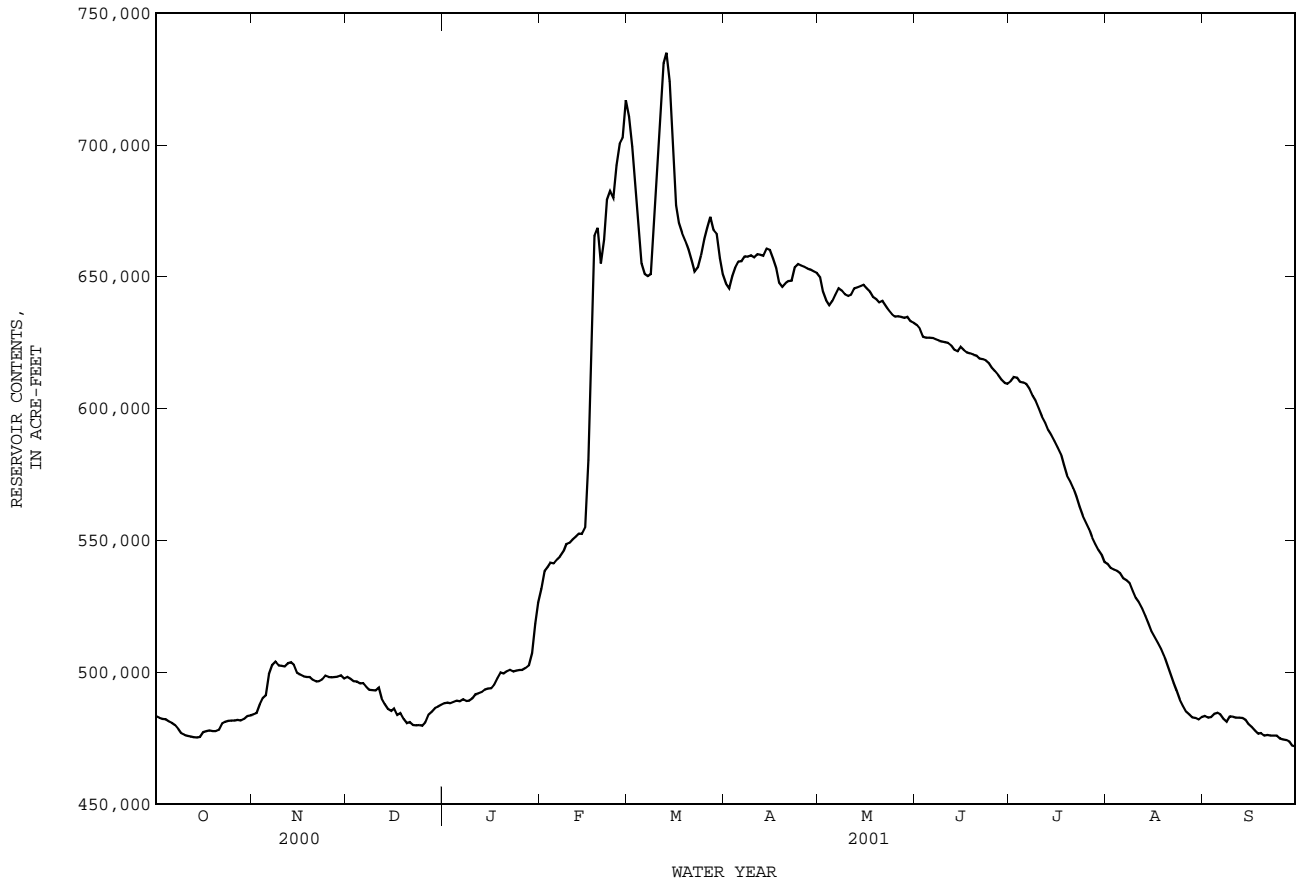
EXTREMES FOR CURRENT YEAR.--Maximum contents, 735,900 acre-ft, Mar. 13, elevation, 537.36 ft; minimum contents, 471,600 acre-ft, Sept. 30, elevation, 525.60 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	483200	483900	498200	488200	531500	710700	647400	649800	631600	610400	541000	483400
2	482600	484500	497400	488400	538200	699300	645600	644400	630200	611900	539500	482700
3	482300	487700	496600	488200	539800	686000	650300	641100	627200	611700	538800	483000
4	482100	490300	496500	488700	541500	670700	653400	639100	626800	610100	538300	484200
5	481300	491200	495700	489200	541300	655000	655700	640800	626900	609800	537500	484600
6	480700	499400	495800	488900	542700	651000	655900	643100	626700	609200	535500	484000
7	479800	502800	494500	489700	543900	650200	657700	645500	626300	607400	534800	482200
8	478400	504000	493300	489100	545800	650900	657600	644700	625800	604800	533700	481200
9	476800	502500	493200	489200	548600	666200	658100	643200	625400	602900	530700	483200
10	476200	502400	493100	490000	549000	684100	657300	642600	625100	600000	528200	483100
11	475800	502200	494100	491600	550400	706700	658500	643100	624900	596900	526400	482800
12	475600	503400	490000	492000	551500	730900	658300	645500	623900	594600	524100	482700
13	475300	503700	487800	492400	552600	734900	657900	645900	622300	591900	521300	482600
14	475200	502800	486000	493400	552400	724100	660600	646400	621600	589900	518600	481900
15	475400	499700	485300	493800	554800	702200	660100	646900	623300	587700	515500	480300
16	477300	499000	486200	493900	580400	677100	656900	645600	622200	585200	513300	479200
17	477700	498400	483700	495200	624000	670300	653200	644300	621300	582700	511200	477900
18	477900	498200	484400	497700	665500	666600	647700	642300	620900	578700	508900	476700
19	477700	498200	482200	499900	668500	663600	646200	641400	620400	574500	506300	476900
20	477700	497100	480700	499500	655000	660300	647500	640200	620000	572400	502800	475900
21	478100	496400	481100	500300	664000	656000	648400	640800	619000	569700	499300	476200
22	480600	496600	479900	500800	679200	651900	648500	639000	618700	566600	495800	476000
23	481200	497200	479800	500200	682600	653400	653600	637200	618200	562700	493000	476000
24	481500	498600	480000	500600	679900	658000	654800	635800	617200	559300	489600	476000
25	481600	498100	479700	500800	692300	664100	654200	634900	615400	556800	487200	474900
26	481700	498000	481100	500800	700400	668400	653700	635000	614100	554300	485100	474500
27	481900	498100	483900	501500	702600	672600	653100	634800	612600	551200	483900	474200
28	481600	498300	485100	502500	717000	667700	652700	634400	610900	548700	482900	473600
29	482300	498800	486400	507200	---	666200	652000	634700	609700	546400	482600	472100
30	483300	497600	486900	518400	---	657000	651400	633100	609400	544500	482000	471900
31	483600	---	487600	526300	---	650900	---	632400	---	541700	483000	---
MEAN	479600	497600	487900	496700	603400	675100	653600	640900	621300	581800	512000	479100
MAX	483600	504000	498200	526300	717000	734900	660600	649800	631600	611900	541000	484600
MIN	475200	483900	479700	488200	531500	650200	645600	632400	609400	541700	482000	471900
(+)	526.26	527.01	526.47	528.44	536.64	534.00	534.02	533.22	532.24	529.19	526.23	525.61
(@)	-200	+14000	-10000	+38700	+190700	-66100	+500	-19000	-23000	-67700	-58700	-11100
CAL YR 2000	MAX 618600	MIN 412300	(@) +60400									
WTR YR 2001	MAX 734900	MIN 471900	(@) -11900									

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

08092500 Lake Whitney near Whitney, TX--Continued



08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Mar. 1960 to Aug. 1987, Jan. 1999 to current year.

BIOCHEMICAL DATA: Sept. 1970 to Aug. 1987, Jan. 1999 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 2000 TO SEPTEMBER 2001

315203097222601 -- Lk Whitney Site AC

DATE	TIME	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
FEB													
12...	1326	552000	2.04	1.00	1330	8.3	9.5	10.6	92	<2	--	<2	240
12...	1328	--	--	10.0	1320	8.3	9.5	10.6	92	--	--	--	--
12...	1330	--	--	20.0	1310	8.3	9.0	10.6	91	--	--	--	--
12...	1332	--	--	30.0	1300	8.3	9.0	10.7	92	--	--	--	--
12...	1334	--	--	40.0	1300	8.3	9.0	10.7	92	--	--	--	--
12...	1336	--	--	50.0	1320	8.3	9.0	10.7	92	--	--	--	--
12...	1338	--	--	60.0	1260	8.3	9.0	10.6	91	--	--	--	--
12...	1340	--	--	70.0	1300	8.3	9.0	10.5	90	--	--	--	--
12...	1342	--	--	80.0	1320	8.3	9.0	10.4	89	--	--	--	--
12...	1344	--	--	90.0	1280	8.2	9.0	10.4	89	--	--	--	--
12...	1346	--	--	97.0	1330	8.2	9.0	10.2	88	--	--	--	230
MAY													
22...	1146	639000	1.46	1.00	1270	8.4	23.0	7.9	93	E3	E3	--	250
22...	1148	--	--	10.0	1270	8.4	23.0	7.8	92	--	--	--	--
22...	1150	--	--	20.0	1270	8.4	23.0	7.8	92	--	--	--	--
22...	1152	--	--	30.0	1270	8.4	23.0	7.6	90	--	--	--	--
22...	1154	--	--	40.0	1270	8.4	22.5	7.2	84	--	--	--	--
22...	1156	--	--	45.0	1250	7.8	21.0	3.8	43	--	--	--	--
22...	1158	--	--	50.0	1250	7.6	20.5	2.2	25	--	--	--	--
22...	1200	--	--	60.0	1240	7.4	19.0	.8	9	--	--	--	--
22...	1202	--	--	70.0	1250	7.4	18.5	.1	1	--	--	--	--
22...	1204	--	--	80.0	1260	7.4	17.5	.1	1	--	--	--	--
22...	1206	--	--	90.0	1280	7.4	17.0	.1	1	--	--	--	--
22...	1208	--	--	98.0	1310	7.4	17.0	.1	1	--	--	--	250
AUG													
02...	1200	--	--	--	--	--	--	--	--	--	--	--	--
02...	1209	540000	1.31	1.00	1380	8.2	29.5	6.9	91	<2	<2	--	260
02...	1211	--	--	10.0	1380	8.2	29.0	6.9	91	--	--	--	--
02...	1213	--	--	20.0	1380	8.1	29.0	6.2	81	--	--	--	--
02...	1215	--	--	30.0	1370	7.9	28.5	4.9	64	--	--	--	--
02...	1217	--	--	35.0	1350	7.4	27.0	.2	3	--	--	--	--
02...	1219	--	--	40.0	1330	7.4	25.5	.00	.0	--	--	--	--
02...	1221	--	--	50.0	1310	7.3	23.5	.00	.0	--	--	--	--
02...	1223	--	--	60.0	1310	7.3	22.0	.00	.0	--	--	--	--
02...	1225	--	--	70.0	1300	7.2	20.5	.00	.0	--	--	--	--
02...	1227	--	--	80.0	1300	7.2	20.5	.00	.0	--	--	--	--
02...	1229	--	--	92.0	1290	7.2	18.5	.00	.0	--	--	--	260

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315203097222601 -- Lk Whitney 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 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													
12...	120	62.8	19.5	171	5	60	6.22	116	117	268	.3	6.4	721
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	110	60.9	18.7	165	5	60	6.18	115	117	270	.3	6.4	714
MAY													
22...	120	73.4	15.4	153	4	57	4.97	123	121	240	.2	6.4	688
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	120	74.9	15.7	154	4	56	5.09	128	121	249	.2	8.3	707
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	150	75.6	17.0	168	5	58	5.00	111	133	267	.3	7.3	740
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	100	77.9	16.1	152	4	55	5.05	160	104	248	.3	10.7	715

BRAZOS RIVER BASIN

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315203097222601 -- Lk Whitney 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- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	BENZENE TOTAL (UG/L) (34030)	ETHYL- BENZENE TOTAL (UG/L) (34371)
FEB													
12...	--	E.004	.116	.043	.28	.33	<.060	<.018	--	<10	<3.2	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	E.005	.114	.073	.19	.27	<.060	<.018	--	<10	13.6	--	--
MAY													
22...	--	<.006	<.050	<.040	--	.29	<.060	<.020	--	<10	<3.0	<.20	<.20
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	.167	.007	.174	E.022	--	.30	<.060	<.020	--	<10	E1.7	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	.300	.006	.306	<.040	--	.28	<.060	<.020	--	<10	35.8	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	.207	.016	.223	.276	.32	.60	E.057	.048	.147	40	999	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	<.20	<.20
02...	--	<.006	E.031	<.040	--	.28	<.060	<.020	--	<10	E2.4	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	<.006	E.027	E.025	--	.28	<.060	<.020	--	<10	15.2	--	--
02...	--	<.006	E.027	.048	.27	.31	<.060	<.020	--	10	198	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	<.006	E.028	1.74	.34	2.1	.341	.331	1.01	60	1050	--	--

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315432097234601 -- Lk Whitney Site CC

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300) (00301)
FEB							
12...	1042	--	1.00	1320	8.3	9.5	93
12...	1044	--	10.0	1330	8.3	9.5	92
12...	1046	--	20.0	1330	8.2	9.5	92
12...	1048	--	30.0	1330	8.2	9.5	92
12...	1050	--	40.0	1330	8.2	9.5	92
12...	1052	--	50.0	1330	8.2	9.5	92
12...	1054	--	60.0	1330	8.2	9.5	92
12...	1056	--	70.0	1340	8.2	9.5	93
12...	1058	--	84.0	1340	8.2	9.0	88
MAY							
22...	0834	1.40	1.00	1290	8.4	23.0	86
22...	0836	--	10.0	1290	8.3	23.0	85
22...	0838	--	20.0	1290	8.3	23.0	84
22...	0840	--	30.0	1290	8.3	23.0	80
22...	0842	--	40.0	1270	7.8	21.5	46
22...	0844	--	50.0	1260	7.4	19.5	12
22...	0846	--	60.0	1250	7.4	19.0	.6
22...	0848	--	70.0	1260	7.4	18.0	.2
22...	0850	--	80.0	1270	7.4	17.5	.1
22...	0852	--	87.0	1280	7.4	17.5	.2
AUG							
02...	0853	--	1.00	1380	8.2	29.5	89
02...	0855	--	10.0	1380	8.2	29.5	87
02...	0857	--	20.0	1380	8.2	29.5	86
02...	0859	--	30.0	1370	7.5	28.0	23
02...	0901	--	40.0	1340	7.3	25.5	.00
02...	0903	--	50.0	1320	7.3	23.0	.00
02...	0905	--	60.0	1320	7.3	21.5	.00
02...	0907	--	70.0	1320	7.2	20.5	.00
02...	0909	--	82.0	1310	7.1	20.0	.00

315722097240201 -- Lk Whitney Site DC

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300) (00301)	COLI-FORM, SOLVED FECAL, UM-MF (COLS./100 ML) (31625)	E COLI, WATER (COL/100 ML) (31633)	FECAL STREP, KF STRP WATER (COL/100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB FLD. AS CACO3 (MG/L) (00904)	
FEB													
12...	1108	1.58	1.00	1310	8.3	9.5	10.5	91	<2	--	<2	240	110
12...	1110	--	10.0	1310	8.3	9.5	10.5	91	--	--	--	--	--
12...	1112	--	20.0	1320	8.3	9.5	10.5	91	--	--	--	--	--
12...	1114	--	30.0	1320	8.3	9.5	10.5	91	--	--	--	--	--
12...	1116	--	40.0	1320	8.3	9.5	10.5	91	--	--	--	--	--
12...	1118	--	50.0	1320	8.3	9.5	10.4	90	--	--	--	--	--
12...	1120	--	60.0	1320	8.3	9.5	10.4	90	--	--	--	--	--
12...	1122	--	75.0	1320	8.2	9.5	10.1	88	--	--	--	230	120
MAY													
22...	0906	1.07	1.00	1350	8.3	24.0	6.9	83	<2	<2	--	260	130
22...	0908	--	10.0	1340	8.3	24.0	6.6	79	--	--	--	--	--
22...	0910	--	20.0	1340	8.3	24.0	6.5	78	--	--	--	--	--
22...	0912	--	30.0	1310	8.2	23.0	5.7	67	--	--	--	--	--
22...	0914	--	40.0	1320	7.4	20.0	.4	4	--	--	--	--	--
22...	0916	--	50.0	1320	7.4	19.0	.1	1	--	--	--	--	--
22...	0918	--	60.0	1310	7.4	19.0	.1	1	--	--	--	--	--
22...	0920	--	70.0	1310	7.4	18.5	.1	1	--	--	--	--	--
22...	0922	--	78.0	1300	7.4	18.5	.2	2	--	--	--	250	120
AUG													
02...	0922	1.70	1.00	1380	8.3	30.0	7.4	99	<2	<2	--	260	130
02...	0924	--	10.0	1390	8.3	30.0	7.2	96	--	--	--	--	--
02...	0926	--	20.0	1400	8.0	30.0	5.4	72	--	--	--	--	--
02...	0928	--	30.0	1400	7.8	29.5	4.0	53	--	--	--	--	--
02...	0930	--	35.0	1370	7.4	27.0	.1	1	--	--	--	--	--
02...	0932	--	40.0	1340	7.4	25.0	.00	.0	--	--	--	--	--
02...	0934	--	50.0	1330	7.3	23.0	.00	.0	--	--	--	--	--
02...	0936	--	60.0	1330	7.2	21.5	.00	.0	--	--	--	--	--
02...	0938	--	71.0	1330	7.1	21.0	.00	.0	--	--	--	260	92

BRAZOS RIVER BASIN

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315722097240201 -- Lk Whitney 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 TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
FEB													
12...	63.5	19.0	165	5	59	6.23	122	116	258	.3	5.9	707	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	62.2	18.9	166	5	60	6.24	112	117	263	.3	6.5	707	--
MAY													
22...	75.8	16.0	162	4	58	4.94	122	130	260	.3	6.5	729	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	.220
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	72.8	15.6	157	4	57	4.99	125	123	247	.2	7.5	704	.205
AUG													
02...	73.5	17.6	174	5	59	5.74	121	133	271	.3	7.5	756	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	77.6	16.2	156	4	56	5.37	168	104	250	.3	10.3	725	--

315722097240201 -- Lk Whitney 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- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHATE, 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										
12...	E.005	.152	E.039	--	.28	<.060	<.018	--	<10	<3.2
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	E.005	.127	.080	.23	.31	<.060	<.018	--	<10	18.3
MAY										
22...	<.006	<.050	<.040	--	.24	<.060	<.020	--	<10	<3.0
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	<.006	E.034	<.040	--	.27	<.060	<.020	--	<10	5.2
22...	.013	.233	E.040	--	.34	<.060	<.020	--	<10	147
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	.017	.222	.108	.28	.39	<.060	<.020	--	<10	419
AUG										
02...	<.006	E.028	<.040	--	.31	<.060	<.020	--	<10	<3.0
02...	--	--	--	--	--	--	--	--	--	--
02...	<.006	.050	<.040	--	.28	<.060	<.020	--	<10	<3.0
02...	<.006	E.026	<.040	--	.31	<.060	<.020	--	<10	43.0
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	.006	E.044	2.00	.42	2.4	.268	.301	.923	70	1160

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

320122097260901 -- Lk Whitney Site FC

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) (00607)
FEB													
12...	1204	.73	1.00	1390	8.4	10.5	10.1	90	.371	.011	.382	<.041	--
12...	1206	--	10.0	1390	8.4	10.5	10.0	89	--	--	--	--	--
12...	1208	--	20.0	1390	8.4	10.5	9.9	88	--	--	--	--	--
12...	1210	--	30.0	1390	8.4	10.5	9.8	87	--	--	--	--	--
12...	1212	--	40.0	1400	8.3	10.5	9.0	80	--	--	--	--	--
12...	1214	--	48.0	1440	8.1	10.5	7.5	67	.379	.015	.394	.122	.23
MAY													
22...	1006	.94	1.00	1420	8.2	24.5	6.8	82	--	<.006	<.050	<.040	--
MAY 22- JUN 01													
1006	--	--	--	--	--	--	--	--	--	<.006	<.050	<.040	--
MAY													
22...	1008	--	10.0	1420	8.2	24.0	6.5	78	--	--	--	--	--
22...	1010	--	20.0	1430	8.2	24.0	6.2	74	--	--	--	--	--
22...	1012	--	30.0	1450	8.0	23.5	5.2	62	--	--	--	--	--
22...	1014	--	40.0	1430	7.4	20.5	.1	1	--	--	--	--	--
22...	1016	--	50.0	1430	7.4	20.5	.2	2	.041	.028	.069	.263	.29
MAY 22- JUN 01													
1016	--	--	--	--	--	--	--	--	.041	.028	.069	.263	.29
AUG													
02...	1031	1.09	1.00	1420	8.3	30.5	6.9	93	--	<.006	E.039	<.040	--
02...	1033	--	10.0	1420	8.1	30.0	6.0	80	--	--	--	--	--
02...	1035	--	20.0	1430	8.0	30.0	5.3	71	--	--	--	--	--
02...	1037	--	30.0	1430	7.8	29.5	4.0	53	--	--	--	--	--
02...	1039	--	40.0	1400	7.4	27.5	.00	.0	--	--	--	--	--
02...	1041	--	46.0	1360	7.2	24.5	.00	.0	--	<.006	E.031	1.96	.30

320122097260901 -- Lk Whitney Site FC

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L) (00660)	IRON, DIS-SOLVED (UG/L) (01046)	MANGA-NESE, DIS-SOLVED (UG/L) (01056)
FEB						
12...	.23	<.060	<.018	--	<10	<3.2
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	.36	<.060	<.018	--	M	17.3
MAY						
22...	.29	<.060	<.020	--	<10	4.8
MAY 22- JUN 01						
.29	<.060	<.020	--	--	--	--
MAY						
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	.55	<.060	<.020	--	30	969
MAY 22- JUN 01						
.55	<.060	<.020	--	--	--	--
AUG						
02...	.30	<.060	<.020	--	<10	25.5
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	2.3	.262	.262	.803	50	2000

BRAZOS RIVER BASIN

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315907097222801 -- Lk Whitney Site P07

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
FEB													
12...	1138	1.37	1.00	1290	8.2	10.0	10.0	88	--	E.005	.121	.074	.23
12...	1140	--	10.0	1290	8.2	10.0	10.0	88	--	--	--	--	--
12...	1142	--	20.0	1300	8.2	10.0	10.0	88	--	--	--	--	--
12...	1144	--	30.0	1320	8.2	9.5	10.2	89	--	--	--	--	--
12...	1146	--	40.0	1330	8.2	9.5	10.1	88	--	--	--	--	--
12...	1148	--	48.0	1330	8.2	9.5	9.9	86	.215	.006	.221	.048	.19
MAY													
22...	0940	1.16	1.00	1320	8.4	25.0	6.9	84	--	<.006	<.050	<.040	--
22...	0942	--	10.0	1320	8.3	24.5	6.8	82	--	--	--	--	--
22...	0944	--	20.0	1340	8.1	24.0	5.4	65	--	--	--	--	--
22...	0946	--	30.0	1350	7.8	22.5	3.3	39	--	--	--	--	--
22...	0948	--	40.0	1400	7.4	20.5	.3	3	--	--	--	--	--
22...	0950	--	52.0	1390	7.4	19.5	.2	2	.087	.030	.117	.281	.31
AUG													
02...	1002	1.26	1.00	1400	8.3	31.0	7.3	99	--	<.006	E.027	E.027	--
02...	1004	--	10.0	1400	7.9	30.0	4.6	61	--	--	--	--	--
02...	1006	--	20.0	1390	7.8	29.5	4.0	53	--	--	--	--	--
02...	1008	--	30.0	1400	7.6	29.0	2.6	34	--	--	--	--	--
02...	1010	--	40.0	1340	7.3	24.5	.00	.0	--	--	--	--	--
02...	1012	--	45.0	1350	7.2	24.0	.00	.0	--	E.005	E.044	1.42	.39

315907097222801 -- Lk Whitney Site P07

DATE	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						
12...	.31	<.060	<.018	--	<10	10.5
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	.24	<.060	<.018	--	<10	<3.2
MAY						
22...	.25	<.060	<.020	--	<10	E2.5
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	--	--	--	--	--	--
22...	.59	<.060	E.012	--	30	820
AUG						
02...	.29	<.060	<.020	--	<10	21.2
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	--	--	--	--	--	--
02...	1.8	.129	.153	.469	90	1120

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

320401097291301 -- Lk Whitney Site P11

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	FECAL STREP, KF STRP WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL CACO3 (MG/L CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB													
12...	1234	.64	1.00	1680	8.6	11.0	11.2	101	E4	--	E3	300	170
12...	1236	--	10.0	1620	8.6	11.5	11.0	100	--	--	--	--	--
12...	1238	--	21.0	1800	8.4	11.5	8.9	81	--	--	--	300	170
MAY													
22...	1048	.61	1.00	1580	8.2	25.5	6.7	83	<2	<2	--	290	160
MAY 22-													
JUN 01	1048	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
22...	1050	--	10.0	1580	8.0	25.5	5.7	70	--	--	--	--	--
22...	1052	--	15.0	1590	8.0	25.5	5.5	68	--	--	--	--	--
22...	1054	--	24.0	1590	8.0	25.0	5.2	64	--	--	--	290	160
MAY 22-													
JUN 01	1054	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	1102	.68	1.00	1510	8.3	31.5	8.1	111	<2	<2	--	260	150
02...	1104	--	10.0	1520	8.0	31.0	5.3	72	--	--	--	--	--
02...	1106	--	20.0	1550	7.3	30.5	.2	3	--	--	--	270	160

320401097291301 -- Lk Whitney Site P11

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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													
12...	82.1	22.0	216	5	61	6.99	10	129	157	336	.3	4.5	905
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	83.2	23.2	229	6	61	6.93	4	129	170	362	.3	4.7	957
MAY													
22...	85.5	18.5	192	5	59	5.42	--	132	154	311	.3	6.1	852
MAY 22-													
JUN 01	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	86.1	18.9	201	5	59	5.55	--	134	153	309	.3	6.3	861
MAY 22-													
JUN 01	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	73.8	19.2	193	5	61	6.70	--	111	145	304	.3	9.0	818
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	76.2	20.0	198	5	61	5.99	--	112	148	320	.3	9.8	846

320401097291301 -- Lk Whitney Site P11

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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
FEB										
12...	.329	.013	.342	<.041	--	.27	<.060	<.018	<10	<3.2
12...	--	--	--	--	--	--	--	--	--	--
12...	.265	.012	.277	.043	.28	.32	<.060	<.018	<10	15.7
MAY										
22...	--	<.006	<.050	<.040	--	.34	<.060	<.020	<50	<16.0
MAY 22-										
JUN 01	--	<.006	<.050	<.040	--	.34	<.060	<.020	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	<.006	<.050	.078	.33	.40	<.060	<.020	<10	35.1
MAY 22-										
JUN 01	--	<.006	<.050	.078	.33	.40	<.060	<.020	--	--
AUG										
02...	--	E.003	E.029	<.040	--	.34	<.060	<.020	<10	<3.0
02...	--	--	--	--	--	--	--	--	--	--
02...	--	<.006	E.025	E.022	--	.37	<.060	<.020	M	216

BRAZOS RIVER BASIN

08092500 Lake Whitney near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

315500097204001 -- Lk Whitney Site P15

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
FEB													
12...	1024	1.40	1.00	1340	8.2	9.0	10.6	91	--	E.005	.109	.043	.22
12...	1026	--	10.0	1340	8.2	9.0	10.6	91	--	--	--	--	--
12...	1028	--	20.0	1340	8.2	9.0	9.9	85	--	--	--	--	--
12...	1030	--	26.0	1340	8.2	9.0	10.6	91	--	E.005	.103	.045	.31
MAY													
22...	0814	1.40	1.00	1270	8.3	22.5	7.0	82	--	<.006	<.050	<.040	--
MAY 22-													
JUN 01	0814	--	--	--	--	--	--	--	--	<.006	<.050	<.040	--
MAY													
22...	0816	--	10.0	1270	8.3	22.5	7.0	82	--	--	--	--	--
22...	0818	--	20.0	1270	8.3	22.5	6.8	79	--	--	--	--	--
22...	0820	--	28.0	1270	7.6	21.0	2.2	25	.131	.008	.139	.069	.30
AUG													
02...	0836	.92	1.00	1380	8.3	30.0	7.3	98	--	<.006	E.034	<.040	--
02...	0838	--	10.0	1390	8.1	29.5	6.2	82	--	--	--	--	--
02...	0840	--	20.0	1370	7.5	28.5	2.7	35	--	<.006	E.026	<.040	--

315500097204001 -- Lk Whitney Site P15

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB					
12...	.26	<.060	<.018	<10	<3.2
12...	--	--	--	--	--
12...	--	--	--	--	--
12...	.36	<.060	<.018	<10	4.2
MAY					
22...	.28	<.060	<.020	<10	<3.0
MAY 22-					
JUN 01	.28	<.060	<.020	--	--
MAY					
22...	--	--	--	--	--
22...	--	--	--	--	--
22...	.37	<.060	<.020	<10	146
AUG					
02...	.30	<.060	<.020	<10	<3.0
02...	--	--	--	--	--
02...	.28	<.060	<.020	<10	E2.1

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BRAZOS RIVER BASIN

08092600 Brazos River at Whitney Dam near Whitney, TX

LOCATION.--Lat 31°52'00", long 97°22'00", Hill Country, Hydrologic Unit 12060202, immediately below Whitney Dam, 4.0 mi upstream from Iron Creek, 7.4 mi southwest of Whitney, 9.0 mi upstream from gaging station near Whitney.

DRAINAGE AREA.--27,189 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--

CHEMICAL DATA: Aug. 1946 to Sept. 1997, Oct. 1998 to current year.
 BIOCHEMICAL DATA: Oct. 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1947 to Sept. 1997 (local observer).
 WATER TEMPERATURE: Aug. 1947 to June 1953 (local observer). July 1953 to Sept. 1966. Oct. 1966 to Sept. 1997 (local observer).

REMARKS.--Records of discharge are given for Brazos River near Aquilla (station 08093100). No appreciable inflow between dam and gaging station except during periods of heavy local rains. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous years using the daily (or continuous) records of specific conductance and regression relations between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,620 microsiemens/cm, Aug. 24, 1978; minimum daily, 203 microsiemens/cm, May 23, 1952.
 WATER TEMPERATURE: Maximum daily, 33.5 C July 3, 1973; minimum daily, 0.0 C on Jan. 28, 29, 1948.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY LAB HACH 2100AN (NTU) (99872)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	HARD- NESS TOTAL (MG/L) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L) (00915)		
FEB	12...	1230	45	1320	8.5	9.3	1.8	--	10.8	94.7	<2.0	235	121	62.3
MAR	21...	1150	4800	1180	8.0	13.8	4.7	--	11.8	115	2.0	227	112	66.4
MAY	21...	1250	22	1210	8.7	21.0	1.9	--	10.2	117	<2.0	248	127	74.1
AUG	01...	1357	350	1270	8.2	26.1	--	3.2	10.5	133	--	245	116	72.5
DATE		MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY WAT DIS TOT IT (MG/L) (39086)	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) (00950)	SILICA, DIS- SOLVED (MG/L) (00955)	SOLIDS, RESIDUE AT 180 DEG. C (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) (00618)
FEB	12...	19.2	167	4.75	6.06	114	118	266	.3	5.4	764	714	<10	--
MAR	21...	14.9	132	3.81	5.55	115	111	229	.3	5.2	692	634	<10	.220
MAY	21...	15.2	149	4.11	4.98	121	124	240	.3	6.4	732	--	<10	.076
AUG	01...	15.6	150	4.17	4.88	129	114	247	.2	7.7	738	690	<10	.034
DATE		NITRO- GEN, NITRITE DIS- SOLVED (MG/L) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L) (00607)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L) (00660)	CARBON, ORGANIC TOTAL (MG/L) (00680)	ALUM- INUM, DIS- SOLVED (UG/L) (01106)	ANTI- MONY, DIS- SOLVED (UG/L) (01095)	ARSENIC DIS- SOLVED (UG/L) (01000)	BARIUM, DIS- SOLVED (UG/L) (01005)
FEB	12...	E.004	.319	E.025	--	.36	<.060	E.010	--	4.9	7	.24	E1.8	108
MAR	21...	.009	.229	E.027	--	.43	<.060	E.017	--	7.2	--	--	--	--
MAY	21...	.008	.084	E.031	--	.30	<.060	<.020	--	5.0	2	.18	E1.7	95.7
AUG	01...	.023	.057	.319	.417	.74	.071	.070	.215	5.8	1	.12	3.4	93.6

08092600 Brazos River at Whitney Dam near Whitney, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

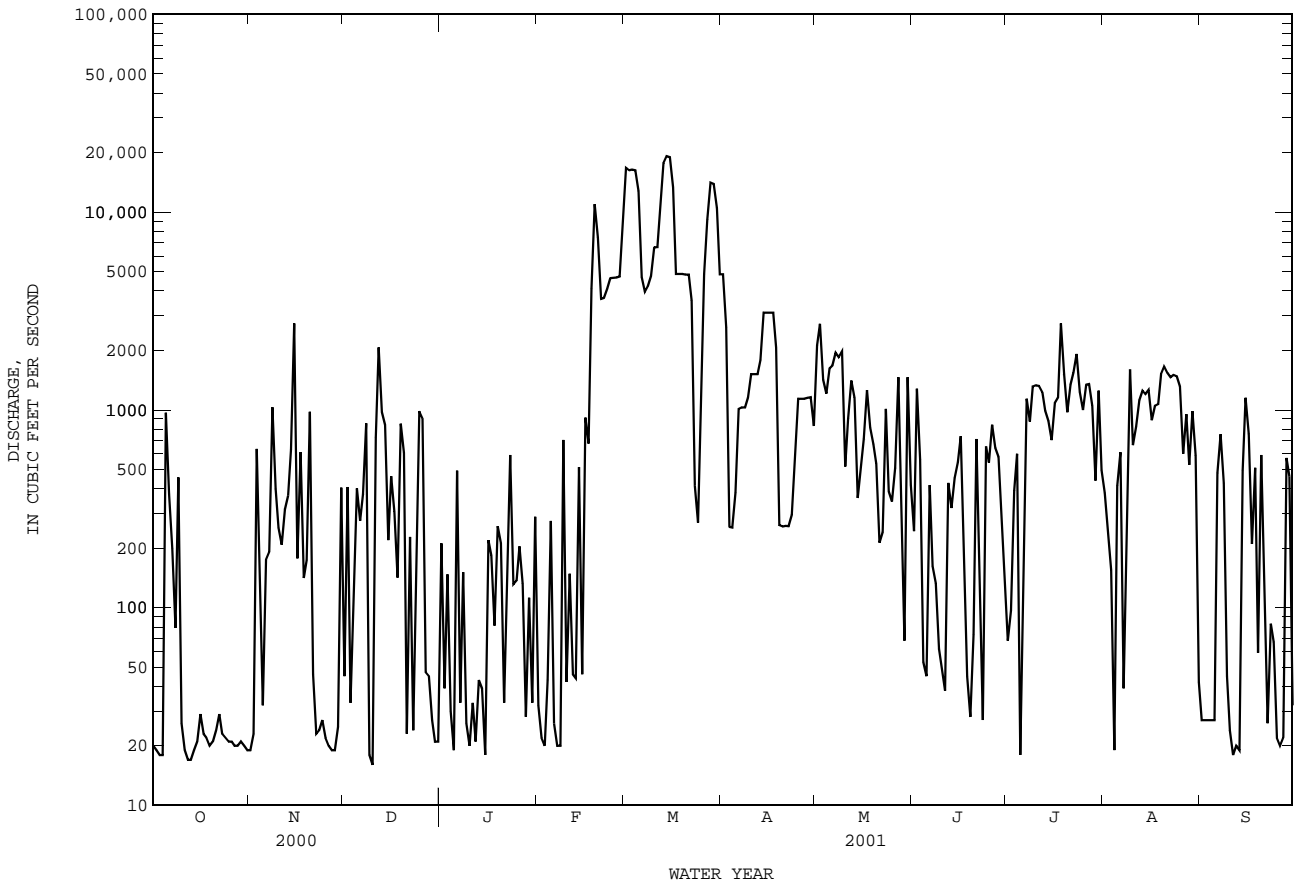
DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
FEB 12...	<.06	.10	<.8	.14	1.7	<10	.12	4.3	<.23	8.6	.68	<2.4	<1.0
MAR 21...	--	--	--	--	--	M	--	4.4	--	--	--	--	--
MAY 21...	<.06	.05	E.4	.21	--	<10	E.07	39.7	--	3.1	1.49	<2.0	<1.0
AUG 01...	<.06	<.04	<.8	.14	1.2	30	.09	378	<.01	2.1	<.06	<2.0	<1.0

DATE	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URIANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB 12...	3	1.24
MAR 21...	--	--
MAY 21...	--	1.31
AUG 01...	3	1.03

08093100 Brazos River near Aquilla, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001z	
ANNUAL TOTAL	95079.2		520958		1597	
ANNUAL MEAN	260		1427		6566	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					141	
HIGHEST DAILY MEAN	2740	Nov 15	19200	Mar 14	66100	May 18 1949
LOWEST DAILY MEAN	8.2	May 31	16	Dec 10	.40	May 9 1953
ANNUAL SEVEN-DAY MINIMUM	10	May 27	20	Oct 26	.80	May 4 1953
MAXIMUM PEAK FLOW			19400	Mar 14	g71800	May 18 1949
MAXIMUM PEAK STAGE			19.69	Mar 14	g31.03	May 18 1949
ANNUAL RUNOFF (AC-FT)	188600		1033000		1157000	
10 PERCENT EXCEEDS	914		4010		3200	
50 PERCENT EXCEEDS	27		416		618	
90 PERCENT EXCEEDS	16		21		41	

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



BRAZOS RIVER BASIN

08093350 Aquilla Lake above Aquilla, TX

LOCATION.--Lat 31°53'59", long 97°12'09", Hill County, Hydrologic Unit 12060202, 450 ft upstream from Farm Road 310 it runs along top of Aquilla Dam on Aquilla Creek, and 3.4 miles north-northeast of Aquilla.

DRAINAGE AREA.--255 mi².

PERIOD OF RECORD.--Oct. 1983 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to current year. Water-quality records.--Chemical data: Feb. 1984 to July 1992. Biochemical data: Feb. 1984 to July 1992.

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

REMARKS.--No estimated daily contents. Records fair. The lake is formed by an earthfill dam with a crest length of 11,890 ft and a top width of 38.0 ft. A reinforced concrete inlet structure, near center of dam, houses the flood-control gates and operating equipment. Closure of the dam began Mar. 20, 1982, and the dam was completed in Jan. 1983. The dam was built and is owned by the U.S. Army Corps of Engineers. Deliberate impoundment began Apr. 29, 1983. The lake was built for water supply, flood control, and recreation purposes. Conservation pool storage is 45,962 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	582.5
Spillway crest (uncontrolled).....	564.5
Top of flood-control pool.....	556.0
Top of conservation pool.....	537.5
Lowest gated outlet (invert).....	503.0

COOPERATION.-- Capacity table, No. 2, provided by the Texas Water Development Board, was put into use beginning Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 119,000 acre-ft, Dec. 23, 1991, elevation, 551.89 ft; minimum contents after initial filling, 35,080 acre-ft, Feb. 22, Mar. 20, 2000, elevation, 533.73 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 63,050 acre-ft, Mar. 4, elevation, 542.14 ft; minimum contents, 39,240 acre-ft, Oct. 15, elevation, 535.29 ft.

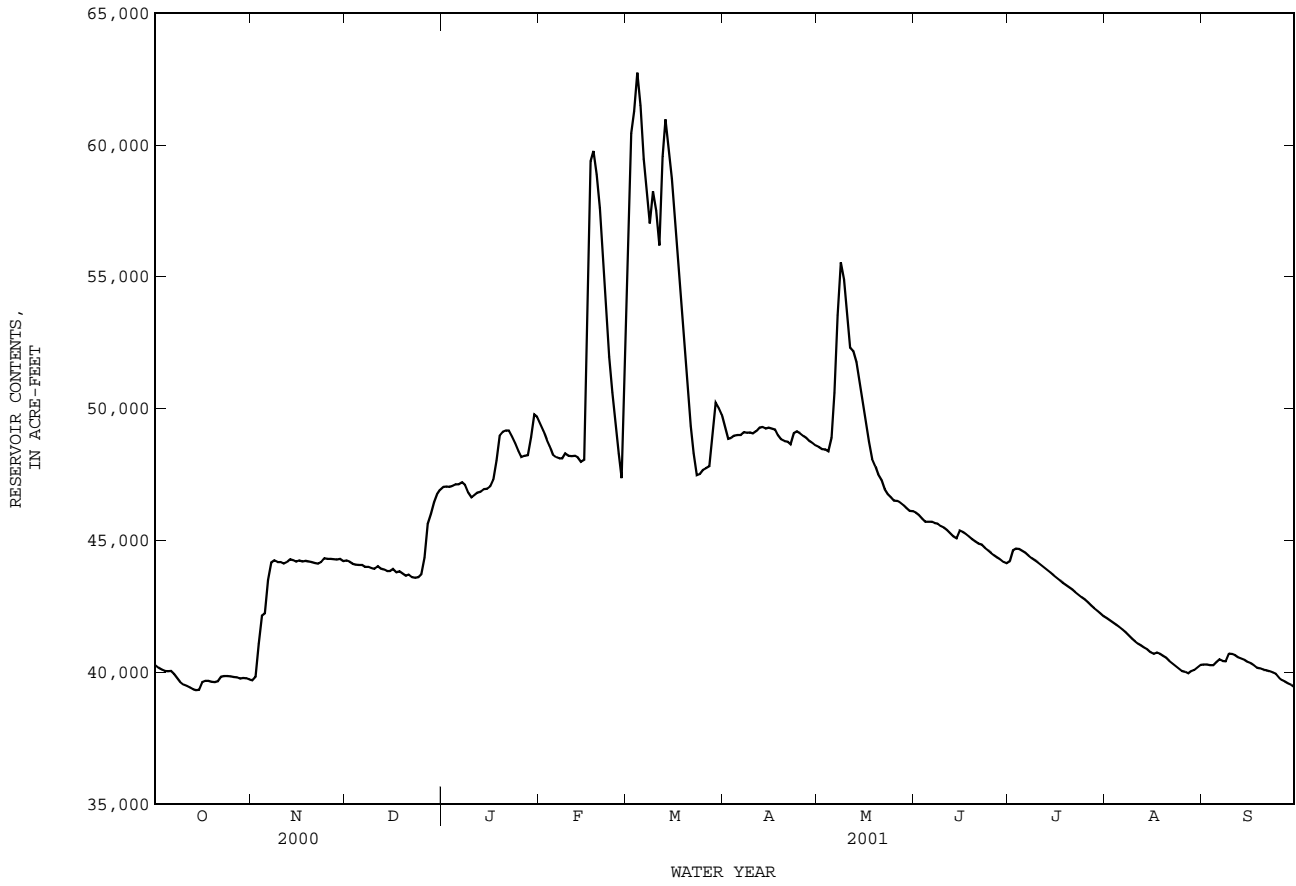
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40260	39700	44230	47030	49420	57870	49320	48530	46050	44200	42050	40290
2	40170	39830	44190	47040	49150	60450	48850	48460	45960	44610	41970	40290
3	40100	41080	44110	47030	48830	61270	48880	48450	45820	44690	41880	40260
4	40050	42140	44080	47060	48580	62740	48970	48380	45710	44670	41800	40260
5	40030	42220	44060	47120	48250	61490	48990	48880	45700	44600	41720	40390
6	40050	43490	44070	47120	48160	59470	49000	50580	45710	44530	41620	40480
7	39920	44150	43990	47200	48110	58170	49100	53530	45660	44420	41510	40420
8	39770	44240	43990	47100	48110	57020	49080	55540	45630	44320	41390	40410
9	39620	44180	43950	46810	48290	58240	49090	54900	45540	44250	41270	40700
10	39530	44170	43920	46630	48210	57500	49060	53590	45470	44160	41170	40690
11	39470	44110	44020	46720	48190	56180	49140	52310	45390	44070	41080	40640
12	39420	44180	43930	46810	48210	59550	49280	52170	45270	43970	41000	40560
13	39360	44280	43890	46840	48140	60970	49300	51750	45140	43880	40920	40510
14	39320	44250	43840	46940	47980	59820	49240	50990	45070	43790	40860	40460
15	39330	44190	43840	46960	48050	58720	49270	50240	45360	43680	40750	40390
16	39620	44230	43910	47050	53180	57260	49240	49480	45320	43580	40690	40340
17	39670	44200	43790	47290	59380	55700	49200	48740	45240	43480	40740	40270
18	39670	44220	43820	48020	59770	54100	48980	48090	45140	43390	40690	40170
19	39630	44200	43740	48970	58880	52450	48820	47800	45040	43300	40620	40140
20	39620	44180	43650	49120	57600	50810	48760	47500	44950	43210	40540	40090
21	39660	44140	43700	49170	55860	49340	48740	47290	44880	43130	40420	40070
22	39830	44110	43600	49170	53960	48300	48640	46940	44840	43030	40320	40030
23	39850	44180	43580	48940	51970	47460	49050	46750	44720	42940	40240	39990
24	39850	44320	43600	48680	50610	47510	49130	46640	44620	42840	40140	39940
25	39840	44300	43710	48390	49540	47670	49050	46500	44530	42750	40050	39790
26	39820	44300	44340	48160	48290	47730	48960	46490	44430	42650	40010	39700
27	39800	44280	45620	48200	47350	47800	48880	46430	44350	42540	39950	39630
28	39760	44270	45990	48230	54080	49120	48770	46330	44270	42430	40040	39560
29	39780	44300	46450	48910	---	50230	48690	46230	44170	42330	40080	39510
30	39770	44210	46740	49770	---	50010	48600	46120	44130	42220	40180	39430
31	39720	---	46920	49690	---	49770	---	46100	---	42120	40280	---
MEAN	39750	43660	44300	47810	50930	54670	49000	49090	45140	43540	40840	40180
MAX	40260	44320	46920	49770	59770	62740	49320	55540	46050	44690	42050	40700
MIN	39320	39700	43580	46630	47350	47460	48600	46100	44130	42120	39950	39430
(+)	535.46	536.95	537.73	538.55	539.77	538.58	538.22	537.50	536.93	536.27	535.65	535.36
(@)	-750	+4490	+2710	+2770	+4390	-4310	-1170	-2500	-1970	-2010	-1840	-850

CAL YR 2000 MAX 66720 MIN 35170 (@) +10990
WTR YR 2001 MAX 62740 MIN 39320 (@) -1040

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

08093350 Aquilla Lake above Aquilla, TX--Continued



BRAZOS RIVER BASIN

08093360 Aquilla Creek above Aquilla, TX

LOCATION.--Lat 31°53'43", long 97°12'10", Hill County, Hydrologic Unit 12060202, on right bank of excavated outlet channel, 0.2 mi downstream from Aquilla Dam on Aquilla Creek and Farm Road 310 (on top of Aquilla Dam), and 3.3 mi north-northeast of Aquilla.

DRAINAGE AREA.--255 mi².

PERIOD OF RECORD.--Sept. 1979 to Mar. 1982, Apr. 1982 to Sept. 1992 (low-flow only), May 2001 to current year.

GAGE.--Water-stage recorder and concrete weir with sharp-crested, 90 degree v-notch weir section for low flows. Datum of gage is 478.71 ft, (levels by U.S. Army Corps of Engineers). Prior to Mar. 15, 1982, as site about 0.2 mi to left of current location at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since Apr. 1983, flow has been completely regulated.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1980-82) 41.3 ft³/s, 29,920 acre-ft/yr.

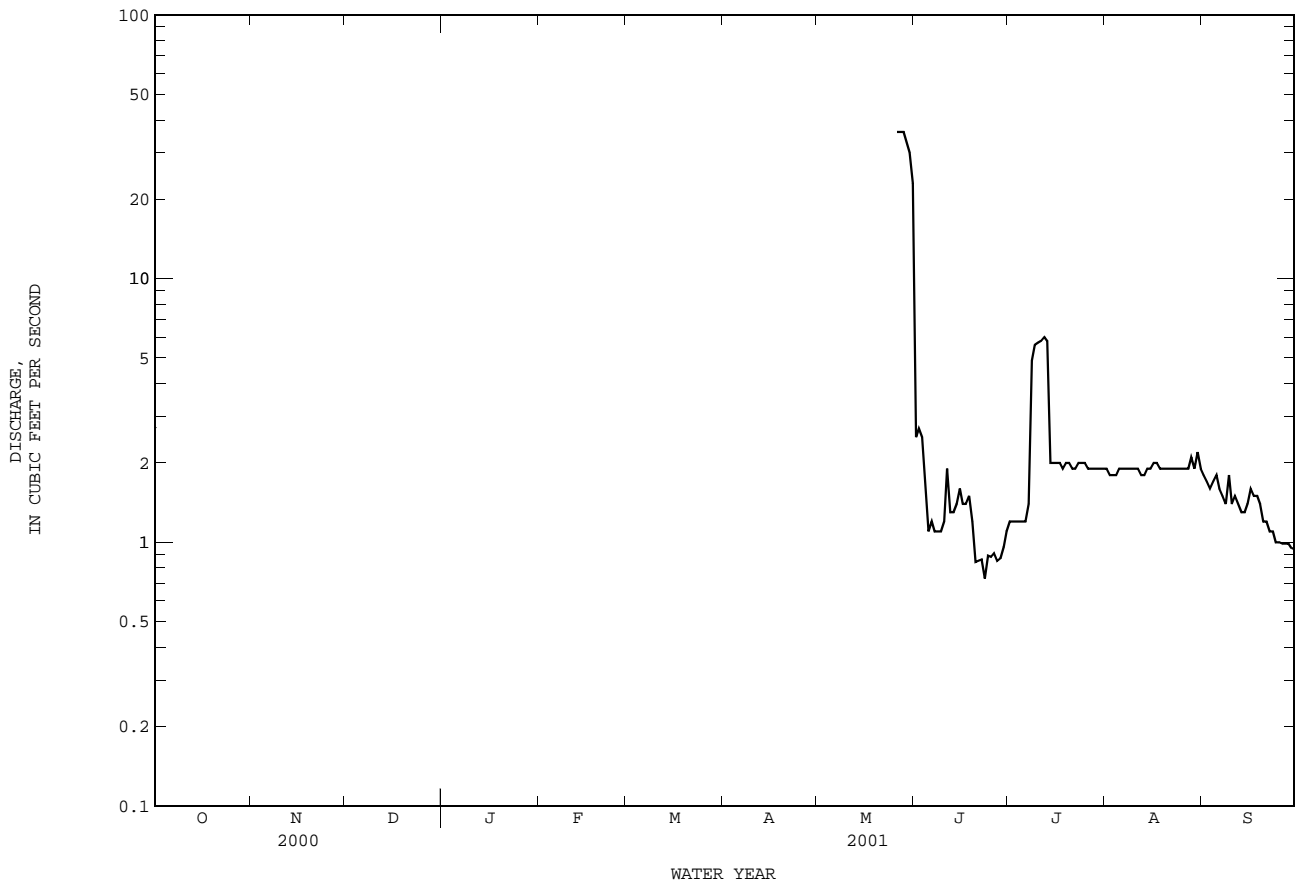
EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1980-82).--Maximum discharge, 7,100 ft³/s June 16, 1981 (gage height, 26.98 ft); no flow for many days in 1980-86.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 31, 1887, reached a stage of 35 ft, from information by local resident. Flood of Sept. 27, 1936, reached a stage of 34 ft from floodmark at downstream site and adjusted to gage site (discharge not determined for either peak).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	2.5	1.2	1.9	1.8
2	---	---	---	---	---	---	---	---	2.7	1.2	1.8	1.7
3	---	---	---	---	---	---	---	---	2.5	1.2	1.8	1.6
4	---	---	---	---	---	---	---	---	1.6	1.2	1.8	1.7
5	---	---	---	---	---	---	---	---	1.1	1.2	1.9	1.8
6	---	---	---	---	---	---	---	---	1.2	1.2	1.9	1.6
7	---	---	---	---	---	---	---	---	1.1	1.4	1.9	1.5
8	---	---	---	---	---	---	---	---	1.1	4.9	1.9	1.4
9	---	---	---	---	---	---	---	---	1.1	5.6	1.9	1.8
10	---	---	---	---	---	---	---	---	1.2	5.7	1.9	1.4
11	---	---	---	---	---	---	---	---	1.9	5.8	1.9	1.5
12	---	---	---	---	---	---	---	---	1.3	6.0	1.8	1.4
13	---	---	---	---	---	---	---	---	1.3	5.8	1.8	1.3
14	---	---	---	---	---	---	---	---	1.4	2.0	1.9	1.3
15	---	---	---	---	---	---	---	---	1.6	2.0	1.9	1.4
16	---	---	---	---	---	---	---	---	1.4	2.0	2.0	1.6
17	---	---	---	---	---	---	---	---	1.4	2.0	2.0	1.5
18	---	---	---	---	---	---	---	---	1.5	1.9	1.9	1.5
19	---	---	---	---	---	---	---	---	1.2	2.0	1.9	1.4
20	---	---	---	---	---	---	---	---	.84	2.0	1.9	1.2
21	---	---	---	---	---	---	---	---	.85	1.9	1.9	1.2
22	---	---	---	---	---	---	---	---	.86	1.9	1.9	1.1
23	---	---	---	---	---	---	---	---	.73	2.0	1.9	1.1
24	---	---	---	---	---	---	---	---	.89	2.0	1.9	1.0
25	---	---	---	---	---	---	---	---	.88	2.0	1.9	1.0
26	---	---	---	---	---	---	---	36	.91	1.9	1.9	.99
27	---	---	---	---	---	---	---	36	.85	1.9	1.9	.99
28	---	---	---	---	---	---	---	36	.87	1.9	2.1	.99
29	---	---	---	---	---	---	---	33	.96	1.9	1.9	.95
30	---	---	---	---	---	---	---	30	1.1	1.9	2.2	.94
31	---	---	---	---	---	---	---	23	---	1.9	1.9	---
TOTAL	---	---	---	---	---	---	---	---	38.84	77.5	59.1	40.66
MEAN	---	---	---	---	---	---	---	---	1.29	2.50	1.91	1.36
MAX	---	---	---	---	---	---	---	---	2.7	6.0	2.2	1.8
MIN	---	---	---	---	---	---	---	---	.73	1.2	1.8	.94
AC-FT	---	---	---	---	---	---	---	---	77	154	117	81

08093360 Aquilla Creek above Aquilla, TX--Continued



BRAZOS RIVER BASIN

08093500 Aquilla Creek near Aquilla, TX

LOCATION.--Lat 31°50'40", long 97°12'04", Hill County, Hydrologic Unit 12060202, at downstream side of highway embankment near left end of bridge on Farm Road 1304, 1.0 mi southeast of Aquilla, 1.2 mi downstream from Cobb Creek, 4.7 mi below Aquilla Dam, and 18.2 mi upstream from mouth.

DRAINAGE AREA.--308 mi².

PERIOD OF RECORD.--Jan. 1939 to May 2001 (Discontinued). Dec. 1924 to Aug. 1925, records of daily discharges published in WSP 608 are unreliable, and should not be used.

Water-quality records.--Chemical data: Mar. 1960 to June 1966, Oct. 1967 to Sept. 1993. Biochemical data: Jan. 1968 to Sept. 1992. Specific conductance: May 1965 to June 1966, Nov. 1967 to Sept. 1982. Water temperature: May 1965 to June 1966, Nov. 1967 to Sept. 1982.

REVISED RECORDS.--WSP 1712: 1944(M), 1957-58. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 451.48 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since Apr. 1983, at least 10% of contributing drainage area has been regulated. No known diversions. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--43 years (water years 1940-82) 119 ft³/s (5.25 in/yr), 86,220 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1940-82).--Maximum discharge, 53,300 ft³/s June 16, 1981 (gage height, 31.35 ft), from rating curve extended above 25,900 ft³/s on basis of slope-area measurement of 74,200 ft³/s; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 31, 1887, reached a stage of 34 ft, from information by local resident. Flood of Sept. 27, 1936, was the highest since 1887 and reached a stage of 33 ft from floodmark; discharge 84,500 ft³/s (by slope-area measurements at site 9 mi downstream) and 74,200 ft³/s (adjusted to present site).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	22	4.8	7.7	160	815	313	.01	---	---	---	---
2	3.5	23	4.4	3.0	158	459	237	.00	---	---	---	---
3	4.5	524	4.3	1.2	157	727	27	4.8	---	---	---	---
4	3.2	97	3.6	1.6	155	691	26	20	---	---	---	---
5	1.5	48	4.0	.97	122	942	20	189	---	---	---	---
6	1.1	226	5.1	.42	19	937	25	141	---	---	---	---
7	2.1	12	6.1	.41	19	658	25	63	---	---	---	---
8	2.6	85	5.6	55	20	1020	24	315	---	---	---	---
9	3.0	21	5.2	134	25	951	23	444	---	---	---	---
10	3.6	1.4	5.8	149	23	737	23	572	---	---	---	---
11	3.2	.10	4.3	179	22	725	24	481	---	---	---	---
12	3.8	.18	4.8	34	43	1280	17	777	---	---	---	---
13	3.6	2.8	5.3	27	91	765	23	334	---	---	---	---
14	1.8	.23	7.7	31	90	759	23	323	---	---	---	---
15	1.3	.15	8.9	22	177	754	22	320	---	---	---	---
16	8.7	1.2	9.7	27	1420	715	21	318	---	---	---	---
17	2.8	2.3	12	195	174	706	20	316	---	---	---	---
18	2.6	2.7	9.9	247	310	703	21	221	---	---	---	---
19	1.7	8.8	10	85	632	698	22	98	---	---	---	---
20	1.6	4.3	9.0	34	743	695	22	97	---	---	---	---
21	5.7	3.5	10	27	859	616	22	e97	---	---	---	---
22	13	4.5	12	84	848	451	22	e97	---	---	---	---
23	4.7	11	12	162	789	315	43	e97	---	---	---	---
24	4.2	38	12	160	612	30	25	e97	---	---	---	---
25	4.3	16	16	157	603	28	21	e35	---	---	---	---
26	6.0	7.9	328	96	596	26	20	---	---	---	---	---
27	7.7	4.9	150	22	434	35	17	---	---	---	---	---
28	15	4.2	79	26	430	130	19	---	---	---	---	---
29	21	4.7	58	229	---	171	19	---	---	---	---	---
30	21	3.9	18	108	---	319	15	---	---	---	---	---
31	21	---	10	165	---	317	---	---	---	---	---	---
TOTAL	182.0	1180.76	835.5	2470.30	9731	18175	1181	5456.81	---	---	---	---
MEAN	5.87	39.4	27.0	79.7	348	586	39.4	218	---	---	---	---
MAX	21	524	328	247	1420	1280	313	777	---	---	---	---
MIN	1.1	.10	3.6	.41	19	26	15	.00	---	---	---	---
AC-FT	361	2340	1660	4900	19300	36050	2340	10820	---	---	---	---

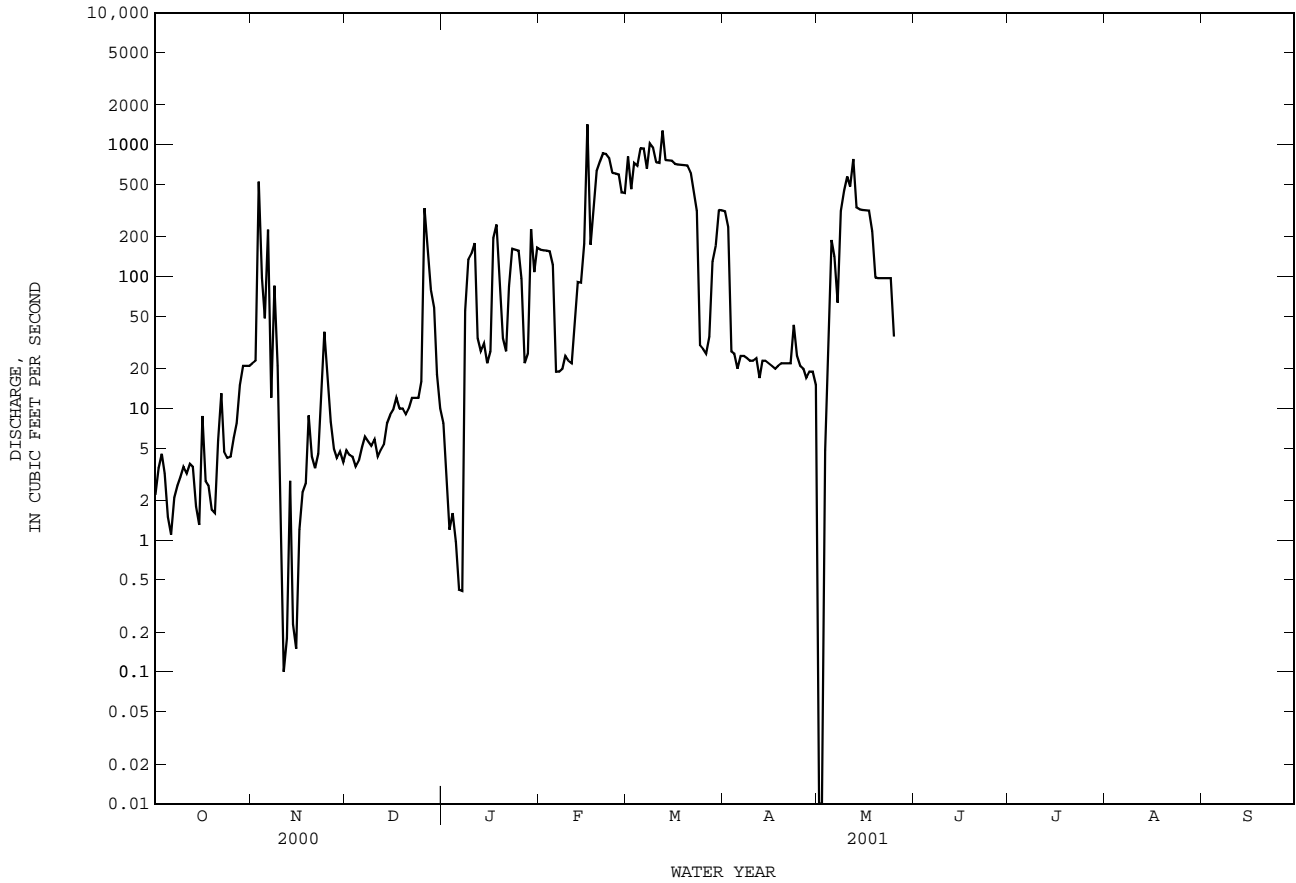
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001z, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	37.7	67.1	178	164	181	254	115	197	206	23.6	13.5	5.96							
MAX	237	392	640	1221	924	1054	674	1281	717	111	122	39.8							
(WY)	1994	1992	1992	1992	1997	1992	1995	1995	1987	1987	1995	1991							
MIN	.000	.15	.32	.59	.18	.58	1.00	.021	.000	.000	.000	.000							
(WY)	1983	1983	1990	1984	1984	1996	1984	1984	1998	1984	1984	1983							

08093500 Aquilla Creek near Aquilla, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001z	
ANNUAL TOTAL	23179.73		39212.37		121	
ANNUAL MEAN	63.3		165		396	1992
HIGHEST ANNUAL MEAN					2.24	1984
LOWEST ANNUAL MEAN					7110	Jun 4 2000
HIGHEST DAILY MEAN	7110	Jun 4	1420	Feb 16	.00	Oct 1 1982
LOWEST DAILY MEAN	.00	Jul 19	.00	May 2	.00	Oct 1 1982
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 19	.87	Nov 10	.00	Oct 1 1982
MAXIMUM PEAK FLOW			2670	Feb 16	22800	Jun 4 2000
MAXIMUM PEAK STAGE			19.37	Feb 16	29.08	Jun 4 2000
ANNUAL RUNOFF (AC-FT)	45980		77780		87620	
10 PERCENT EXCEEDS	155		692		390	
50 PERCENT EXCEEDS	2.3		23		5.4	
90 PERCENT EXCEEDS	.02		2.6		.00	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08094800 North Bosque River at Hico, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 31°58'41", long 98°02'04", Hamilton County, Hydrologic Unit 12060204, on left bank at downstream side of bridge on U.S. Highway 281 near south boundary of Hico, 2.6 mi downstream from Gilmore Creek, 5.0 mi upstream from Honey Creek, and 92.4 mi upstream from mouth.

DRAINAGE AREA.--359 mi².

PERIOD OF RECORD.--Jan. 1962 to Sept. 1998 (daily mean discharge). Oct. 1998 to current year (peaks above base discharge).
Water-quality records.--Chemical data: Sept. 1991 to Mar. 1994. Biochemical data: Sept. 1991 to Mar. 1994

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 977.46 ft above sea level. Prior to Jan. 20, 2000, datum was 982.46 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in Jan. 1962, at least 10% of contributing drainage area has been affected at times by discharge from the flood-detention pools of 40 floodwater-retarding structures. These structures control runoff from 202 mi² in the North Bosque River and Green Creek drainage basins. The city of Stephenville discharges wastewater effluent into the river above this station. No known diversions.

AVERAGE DISCHARGE.--36 YEARS (water years 1963-98), 68.6 ft³/s (49,710 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s Dec. 20, 1991 (gage height, 23.27 ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 27.6 ft May 23, 1952, from floodmarks (discharge, 87,800 ft³/s, by contracted-opening measurement).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 5	2330	4,030	15.82	No other peak greater than base discharge.			

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BRAZOS RIVER BASIN

08095000 North Bosque River near Clifton, TX
(Hydrologic index station)

LOCATION.--Lat 31°47'09", long 97°34'04", Bosque County, Hydrologic Unit 12060204, near right bank at downstream side of bridge on Farm Road 219, 0.5 mi northeast of Clifton, 2.5 mi downstream from Meridian Creek, and 42.0 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

PERIOD OF RECORD.--Oct. 1923 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 788: 1924-26, 1928, 1930. WSP 1058: 1945(M). WSP 1512: 1924(M), 1927, 1928(M), 1929, 1930(M), 1931-33, 1934(M), 1935-37, 1939. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 605.43 ft above sea level. Prior to Oct. 1, 1955, and from Apr. 23, 1957, to Mar. 26, 1958, nonrecording gage at site 1.1 mi upstream at datum 17.02 ft higher; Oct. 1, 1955, to Apr. 22, 1957, and Mar. 27, 1958, to Sept. 30, 1959, water-stage recorder; and Oct. 1, 1959, to Jan. 1, 1961, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since water year 1968, at least 10% of contributing drainage area has been regulated. These structures control runoff from 202 mi² in the North Bosque River and Green Creek drainage basins. The cities of Meridian, Stephenville and Clifton discharge wastewater effluent into the river above this station. The city of Clifton diverts water from the river upstream from this station for municipal use.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--44 years (water years 1924-67), 195 ft³/s (141,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-67).--Maximum discharge, 92,800 ft³/s Oct. 4, 1959 (gage height, 34.88 ft), from rating curve extended above 34,000 ft³/s on basis of contracted-opening measurement of 92,800 ft³/s; and step-back water computation of 200,000 ft³/s. Maximum stage since at least 1854, that of Dec. 20, 1991. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 9, 1922, reached a stage of about 32 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	42	19	55	289	2350	308	77	57	21	2.6	7.6
2	.03	22	15	45	213	2120	272	74	53	28	2.4	5.9
3	.04	24	13	38	160	1300	251	71	51	41	2.2	7.1
4	.04	20	13	34	137	1280	236	71	47	29	2.2	7.4
5	.03	18	12	34	121	707	224	145	44	25	2.2	17
6	.01	2720	11	32	109	459	214	1470	40	23	2.0	15
7	.00	602	10	33	100	368	199	581	39	21	2.0	16
8	.00	220	9.7	31	97	1790	190	496	38	18	2.2	43
9	.01	211	9.4	29	92	6290	178	224	38	16	1.4	55
10	.02	136	11	30	87	1970	165	151	37	15	1.2	34
11	.02	89	9.4	42	e88	1410	248	120	34	14	1.0	26
12	.02	65	9.1	37	87	7920	704	205	32	12	1.0	26
13	.02	50	11	36	92	1820	312	307	29	10	1.1	23
14	.02	102	11	42	102	1140	233	141	28	4.7	1.1	17
15	.03	70	11	41	234	1020	199	119	81	8.5	.96	6.3
16	.04	57	11	39	5020	628	172	98	57	8.6	.84	8.1
17	.03	46	10	41	2410	473	148	85	46	8.8	1.2	8.5
18	.03	39	8.8	58	1260	394	137	77	39	7.9	1.3	9.3
19	.02	34	4.9	69	715	396	132	73	36	7.0	1.2	8.4
20	.03	28	8.2	71	411	372	131	74	30	6.3	1.2	7.8
21	.61	23	7.4	76	309	330	128	69	27	4.7	1.2	9.3
22	.13	22	7.3	67	251	299	121	65	25	2.3	1.1	9.6
23	.99	23	7.4	57	220	278	545	64	24	5.8	1.1	9.1
24	.08	26	7.3	54	379	e310	420	60	25	5.5	1.1	7.8
25	.03	24	9.7	50	682	e310	179	56	24	5.3	1.2	6.9
26	.03	26	15	48	371	e260	134	59	21	5.0	1.2	6.4
27	.02	38	38	46	340	253	111	76	16	4.5	1.3	6.2
28	.02	34	70	52	2920	547	97	72	20	3.9	5.2	5.7
29	.02	27	67	1800	---	468	89	72	18	3.2	4.8	5.5
30	415	22	67	1510	---	370	80	64	13	3.0	6.2	5.2
31	92	---	62	558	---	334	---	62	---	2.9	6.6	---
TOTAL	509.40	4860	575.6	5155	17296	37966	6557	5378	1069	370.9	62.30	420.1
MEAN	16.4	162	18.6	166	618	1225	219	173	35.6	12.0	2.01	14.0
MAX	415	2720	70	1800	5020	7920	704	1470	81	41	6.6	55
MIN	.00	18	4.9	29	87	253	80	56	13	2.3	.84	5.2
AC-FT	1010	9640	1140	10220	34310	75310	13010	10670	2120	736	124	833

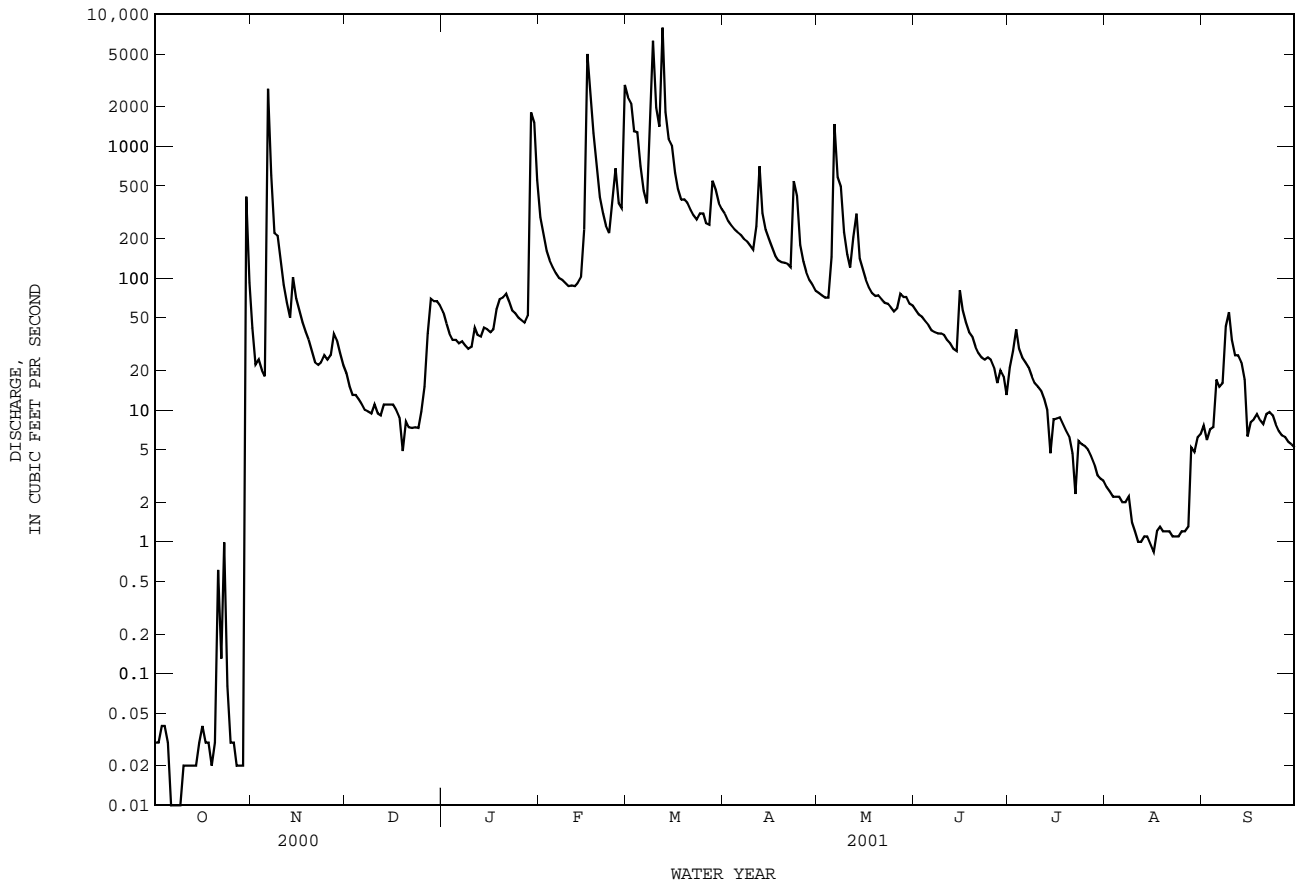
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001z, BY WATER YEAR (WY)

MEAN	113	67.6	306	154	359	416	368	516	333	69.7	80.6	60.4
MAX	1206	430	7330	1405	3738	2681	2340	2412	1517	799	1238	449
(WY)	1972	1992	1992	1992	1992	1998	1990	1968	1989	1968	1995	1986
MIN	.79	.58	.85	2.93	2.74	2.28	2.74	1.40	.44	.17	.16	.074
(WY)	1979	1984	1984	1984	2000	2000	1983	1984	1984	1984	1984	2000

08095000 North Bosque River near Clifton, TX--Continued
(Hydrologic index station)

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1968 - 2001z	
ANNUAL TOTAL	20018.39	80219.30		
ANNUAL MEAN	54.7	220	236	
HIGHEST ANNUAL MEAN			1366	1992
LOWEST ANNUAL MEAN			11.7	1984
HIGHEST DAILY MEAN	6970 Jun 15	7920 Mar 12	96800	Dec 21 1991
LOWEST DAILY MEAN	.00 Jun 1	.00 Oct 7	.00	Jun 1 2000
ANNUAL SEVEN-DAY MINIMUM	.01 Oct 6	.01 Oct 6	.01	Oct 6 2000
MAXIMUM PEAK FLOW		16500 Mar 12	200000	Dec 20 1991
MAXIMUM PEAK STAGE		15.82 Mar 12	38.30	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	39710	159100	171100	
10 PERCENT EXCEEDS	40	413	368	
50 PERCENT EXCEEDS	2.7	36	28	
90 PERCENT EXCEEDS	.06	1.1	2.6	

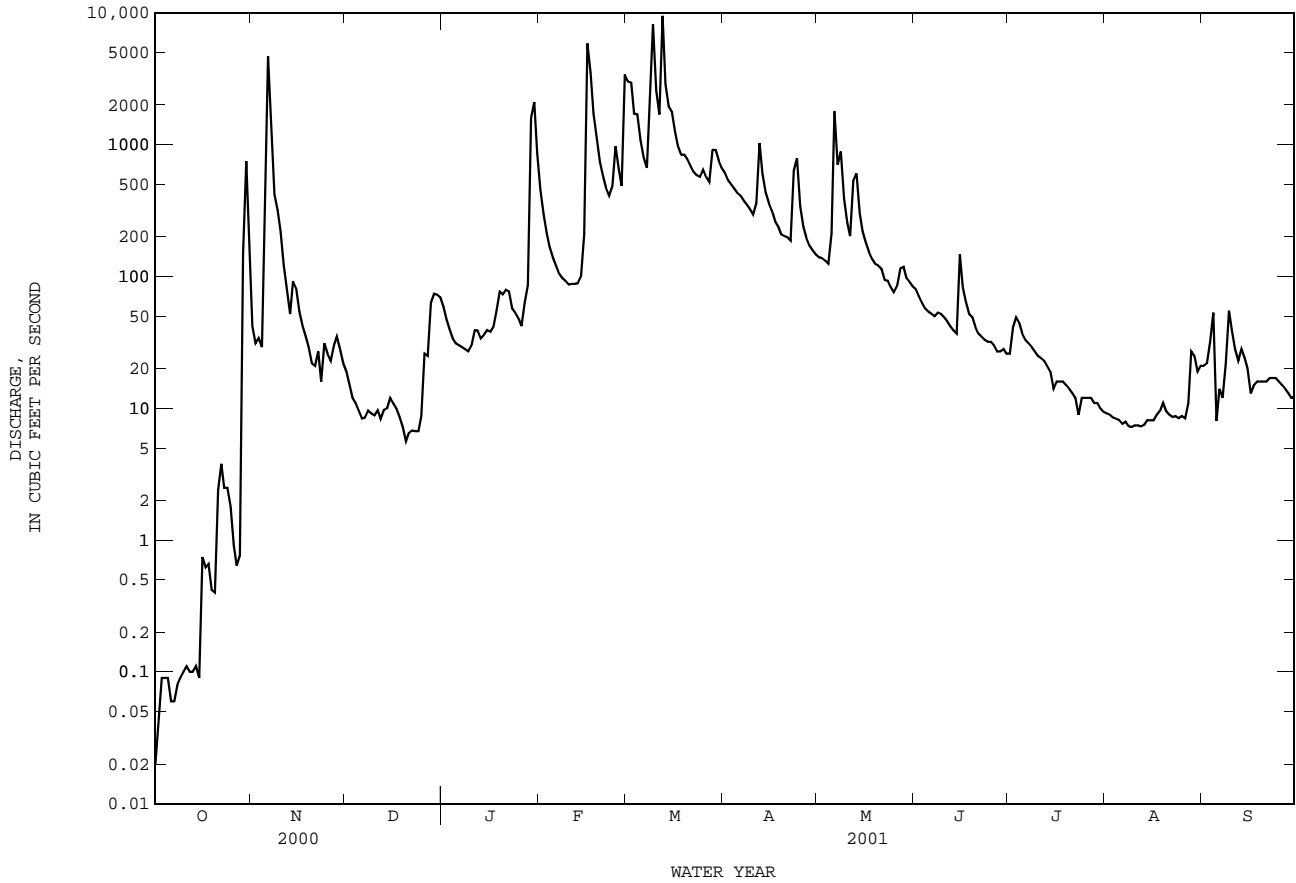
e Estimated
z Period of regulated streamflow.



08095200 North Bosque River at Valley Mills, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1968 - 2001z	
ANNUAL TOTAL	25781.89		115685.48		294	
ANNUAL MEAN	70.4		317		1664	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					14.6	
HIGHEST DAILY MEAN	6000	Jun 15	9470	Mar 12	123000	Dec 21 1991
LOWEST DAILY MEAN	.00	Aug 14	.02	Oct 1	.00	Jun 1 1984
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 6	.06	Oct 1	.00	Jun 17 1984
MAXIMUM PEAK FLOW			17400	Mar 12	220000	Dec 21 1991
MAXIMUM PEAK STAGE			24.04	Mar 12	44.60	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	51140		229500		212600	
10 PERCENT EXCEEDS	42		760		490	
50 PERCENT EXCEEDS	6.7		39		41	
90 PERCENT EXCEEDS	.07		7.3		6.2	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08095200 North Bosque River at Valley Mills, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Mar. 1960 to Aug. 1987, Jan. 1999 to current year.

BIOCHEMICAL DATA: Sept. 1970 to Aug. 1987, Jan. 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DEMAND, (PER-CENT SATUR-ATION) (MG/L) (00301)	OXYGEN, DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
FEB	14...	98	449	8.3	14.0	3.9	9.0	88.5	<2.0	195	17	66.1	7.18	
APR	11...	321	517	8.0	22.0	20	6.5	75.7	<2.0	228	31	76.9	8.84	
MAY	22...	1205	470	7.7	22.5	6.0	6.4	74.5	<2.0	209	26	71.6	7.25	
AUG	02...	0900	9.5	438	7.5	29.5	--	6.4	84.7	2.0	169	4	55.9	7.12
DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)
FEB	14...	13.1	.408	12.5	3.88	178	34.5	14.3	.2	3.4	269	252	17	--
APR	11...	17.0	.489	13.7	3.27	197	36.1	23.0	.3	5.0	318	291	37	.487
MAY	22...	15.5	.466	13.7	2.91	183	28.2	16.0	.3	9.9	264	263	<10	--
AUG	02...	25.2	.844	24.2	2.12	165	26.4	18.9	.3	16.0	264	253	<10	.441
DATE	TIME	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	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)
FEB	14...	E.004	.525	<.041	.29	<.060	<.018	4.5	<1	.12	E1.1	61.6	<.06	<.04
APR	11...	.008	.495	<.041	.32	<.060	<.018	1.1	--	--	--	--	--	--
MAY	22...	E.005	.306	<.040	.22	<.060	<.020	4.1	<1	.09	E1.8	59.1	<.06	<.04
AUG	02...	.019	.460	<.040	.24	<.060	<.020	3.0	<1	.09	5.5	48.7	<.06	<.04
DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB	14...	<.8	.29	1.4	<10	E.05	2.1	<.23	1.8	1.32	<2.4	<1.0	1	1.25
APR	11...	--	--	--	<10	--	E1.9	--	--	--	--	--	--	--
MAY	22...	<.8	.33	1.0	<10	<.08	6.9	<.01	1.5	1.21	<2.0	<1.0	1	1.07
AUG	02...	<.8	.18	.5	100	<.08	26.0	<.01	1.5	<.06	21.8	<1.0	1	.92

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BRAZOS RIVER BASIN

08095300 Middle Bosque River near McGregor, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 31°30'33", long 97°21'56", McLennan County, Hydrologic Unit 12060203, at left downstream side of bridge on Farm Road 3047, 1,100 ft downstream from Pecan Creek, 5.0 mi upstream from mouth, and 5.2 mi northeast of McGregor.

DRAINAGE AREA.--182 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug. 1959 to Sept. 1985 (daily mean discharge), Oct. 1985 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 530.51 ft above sea level. Prior to Oct. 27, 1959, nonrecording gage at same site and datum. Satellite telemeter at station.

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

AVERAGE DISCHARGE.--26 years (water years 1960-1985), 78.4 ft³/s (56,800 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,300 ft³/s Oct. 31, 1974 (gage height, 24.62 ft). No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1889, which reached a stage of 28.5 ft. A flood in 1957 reached a stage of 28.2 ft; and floods in 1913 and 1942 or 1943 reached a stage of about 28 ft, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/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.

08095300 Middle Bosque River near McGregor, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	
FEB 14...	1300	113	468	8.3	16.0	.6	9.6	98.6	<2.0	214	26	82.2	2.12	
APR 11...	1425	86	401	8.1	23.0	1.8	10.5	125	<2.0	189	28	71.9	2.22	
MAY 23...	0902	19	417	7.5	20.0	2.0	5.9	65.5	<2.0	189	28	71.6	2.39	
AUG 01...	0940	.15	314	7.6	30.0	--	6.0	80.0	<2.0	109	11	39.8	2.42	
DATE		SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	ALKA-LINITY WAT DIS TOT IT (MG/L) AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L) AS N (00618)
FEB 14...	8.6	.257	8.02	1.10	188	20.5	9.7	.3	6.9	273	271	<10	6.06	
APR 11...	9.0	.284	9.31	.97	161	20.3	10.2	.3	5.2	229	232	<10	3.37	
MAY 23...	10.8	.341	11.0	1.20	161	20.3	9.4	.3	8.7	213	232	<10	2.41	
AUG 01...	18.7	.778	26.6	2.11	98	25.3	20.2	.3	23.2	215	192	<10	.167	
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-SOLVED (MG/L) AS N (00623)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) AS P (00671)	CARBON, ORGANIC TOTAL (MG/L) AS C (00680)	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	ANTI-MONY, DIS-SOLVED (UG/L) AS SB (01095)	ARSENIC DIS-SOLVED (UG/L) AS AS (01000)	BARIUM, DIS-SOLVED (UG/L) AS BA (01005)	BERYL-LIUM, DIS-SOLVED (UG/L) AS BE (01010)
FEB 14...	.009	6.07	<.041	--	.16	<.060	<.018	1.4	<1	.07	<2.0	49.2	<.06	
APR 11...	.015	3.39	<.041	--	.19	<.060	<.018	1.1	--	--	--	--	--	
MAY 23...	.015	2.42	<.040	--	.17	<.060	<.020	2.3	<1	.07	E1.6	48.6	<.06	
AUG 01...	.021	.188	.128	.500	.63	<.060	<.020	6.5	1	.12	7.0	47.8	<.06	
DATE		CADMIUM DIS-SOLVED (UG/L) AS CD (01025)	CHRO-MIUM, DIS-SOLVED (UG/L) AS CR (01030)	COBALT, DIS-SOLVED (UG/L) AS CO (01035)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	MERCURY DIS-SOLVED (UG/L) AS HG (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L) AS MO (01060)	NICKEL, DIS-SOLVED (UG/L) AS NI (01065)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)
FEB 14...	<.04	<.8	.19	1.1	<10	<.08	2.0	<.23	.4	.37	<2.4	<1.0	1	
APR 11...	--	--	--	--	<10	--	E1.9	--	--	--	--	--	--	
MAY 23...	<.04	<.8	.20	.6	<10	<.08	5.0	<.01	.4	1.07	<2.0	<1.0	<1	
AUG 01...	<.04	<.8	.15	.6	<10	<.08	3.4	<.01	.5	<.06	2.8	<1.0	<1	

BRAZOS RIVER BASIN

08095300 Middle Bosque River near McGregor, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
FEB	
14...	.91
APR	
11...	--
MAY	
23...	.67
AUG	
01...	.61

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BRAZOS RIVER BASIN

08095400 Hog Creek near Crawford, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 31°33'20", long 97°21'22", McLennan County, Hydrologic Unit 12060203, on downstream side of bridge on Farm Road 185, 5.6 mi east of Crawford, and 9.8 mi upstream from South Bosque River.

DRAINAGE AREA.--78.2 mi².

PERIOD OF RECORD.--Aug. 1959 to Sept. 1985 (daily mean discharge), Oct. 1985 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 560.54 ft above sea level. Prior to Oct. 27, 1959, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records fair. Since water year 1980, at least 10% of the contributing drainage area has been regulated. These structures control runoff from 42.0 mi² in the Hog Creek drainage basin.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1960-1979), 37.7 ft³/s (27,310 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1959-1979).--Maximum discharge, 15,400 ft³/s Oct. 4, 1959 (gage height, 14.31 ft); no flow at times in 1959, 1963-64, 1971, and 1978-79.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 17.5 ft Sept. 26, 1936. Flood in Apr. or May 1957 reached a stage of 15.7 ft, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
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No peak greater than base discharge.

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BRAZOS RIVER BASIN

08095550 Waco Lake near Waco, TX

LOCATION.--Lat 31°34'46", long 97°11'51", McLennan County, Hydrologic Unit 12060203, in intake structure at Waco Dam on Bosque River, at northwest edge of city limits of Waco, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--1,652 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Feb. 1965 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to current year. Prior to Oct. 1970, published as "Waco Reservoir".

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rolled earthfill dam 24,618 ft long, including spillway. The lake was built for flood control and water conservation. From Oct. 1, 1964, to Feb. 26, 1965, the lake was operated as a detention basin only. On Feb. 26, 1965, old Lake Waco was breached and deliberate impoundment began. The spillway is controlled by fourteen 40.0-by 35.0-foot tainter gates. The outlet works consists of three gate-controlled outlets, 6.7 by 20.0 ft, opening into a 20.0-foot-diameter concrete conduit and two 54-inch concrete pipes. Low-flow releases are made through two 54-inch butterfly valves. Flow into two wet wells is controlled by four 5.0- by 6.0-foot slide gates that are used to release water downstream for the city of Waco municipal water supply. Flow is affected at times by discharge from the flood-detention pools of 44 floodwater-retarding structures with a combined detention capacity of 76,460 acre-ft. These structures control runoff from 248 mi² in the Bosque River and Hog Creek drainage basins. An unknown amount of water was diverted for municipal and industrial uses. The dam is the property of the U.S. Army Corps of Engineers. Conservation pool storage is 144,830 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	510.0
Design flood.....	505.0
Top of gates.....	500.0
Crest of spillway	465.0
Top of conservation pool	455.0
Lowest controlled outlet (invert).....	400.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by the Texas Water Development Board, was put into use beginning Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 521,100 acre-ft, Dec. 24, 1991, elevation, 488.48 ft; minimum since normal operating level was reached, 86,360 acre-ft, Oct. 8, 1984, elevation, 445.10 ft.

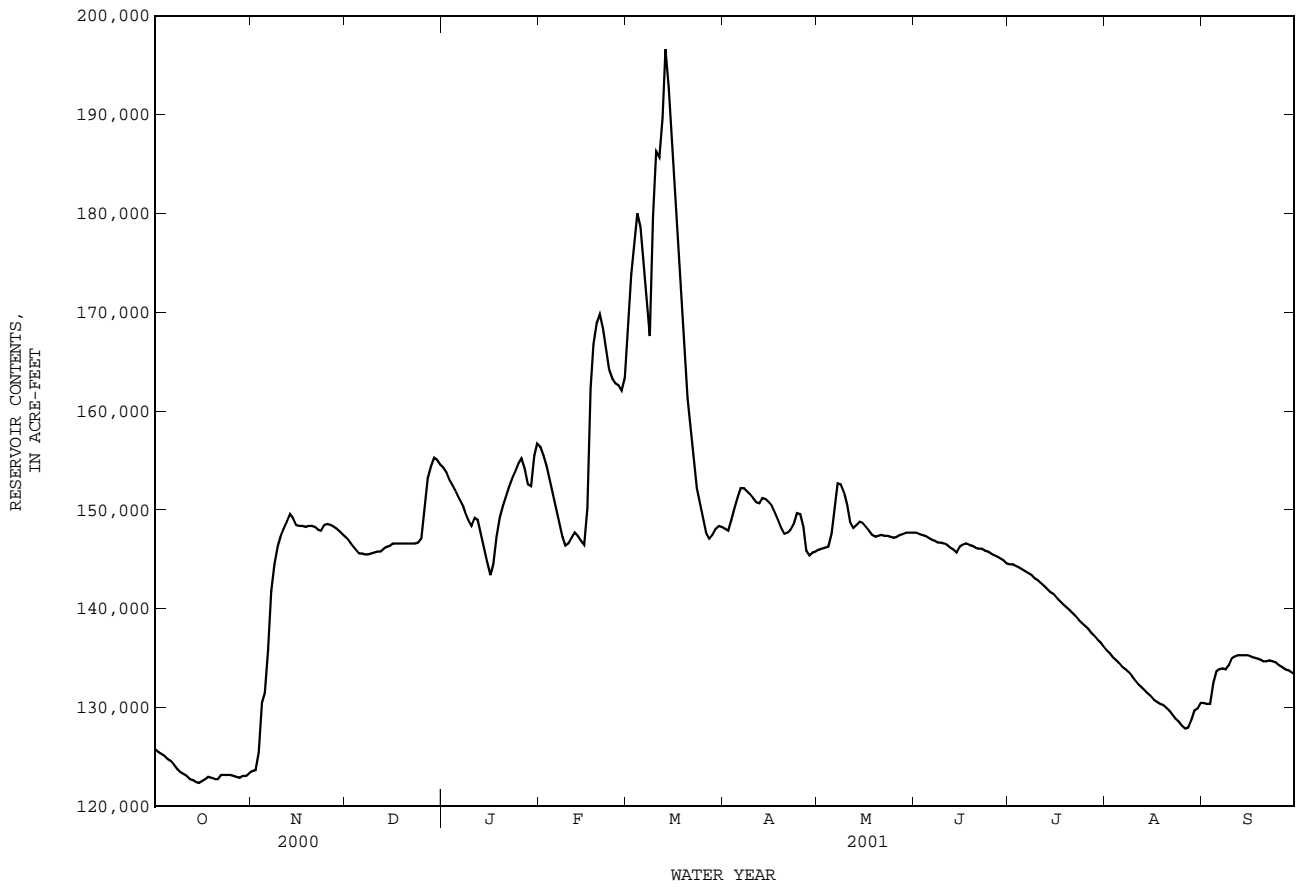
EXTREMES FOR CURRENT YEAR.--Maximum contents, 197,300 acre-ft, Mar. 13, elevation, 461.82 ft; minimum contents, 122,200 acre-ft, Oct. 15, elevation, 451.75 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125800	123600	147200	154300	156400	168100	148100	146000	147700	144500	135800	130500
2	125500	123700	146800	153800	155500	173800	147900	146100	147600	144500	135500	130400
3	125300	125500	146400	153100	154400	176900	149000	146200	147500	144300	135100	130400
4	125100	130500	146000	152500	153100	180000	150100	146300	147400	144200	134800	132500
5	124800	131500	145600	151900	151700	178600	151200	147600	147200	144000	134500	133700
6	124600	135800	145600	151200	150300	175000	152200	150100	147000	143800	134100	133900
7	124200	141800	145500	150600	148800	171000	152200	152700	146900	143600	133900	134000
8	123800	144500	145500	149800	147300	167600	151900	152600	146700	143400	133600	133900
9	123500	146300	145600	149000	146400	179600	151600	151800	146700	143100	133200	134300
10	123300	147300	145700	148400	146600	186300	151200	150500	146600	142900	132800	135000
11	123100	148100	145800	149200	147200	185700	150800	148800	146500	142600	132400	135200
12	122800	148800	145800	149000	147700	189700	150700	148200	146200	142300	132100	135300
13	122700	149600	146100	147600	147400	196600	151200	148500	146000	142000	131800	135300
14	122500	149200	146300	146200	146900	192800	151100	148800	145700	141700	131500	135300
15	122400	148500	146400	144700	146500	188000	150800	148700	146300	141500	131200	135300
16	122600	148400	146600	143400	150200	182300	150400	148300	146500	141100	130800	135200
17	122800	148400	146600	144500	162300	176600	149700	147900	146600	140800	130600	135100
18	123000	148300	146600	147300	166800	171000	149000	147500	146500	140500	130400	135000
19	122900	148400	146600	149200	168900	165800	148200	147300	146400	140200	130300	134900
20	122800	148400	146600	150400	169800	161300	147600	147400	146200	139900	130000	134700
21	122800	148300	146600	151400	168300	158100	147700	147500	146100	139600	129700	134700
22	123200	148000	146600	152300	166300	155100	148000	147400	146100	139300	129300	134800
23	123200	147900	146600	153200	164200	152200	148600	147400	145900	138900	128900	134700
24	123200	148500	146700	153900	163300	150600	149700	147300	145800	138600	128600	134600
25	123200	148600	147100	154700	162800	149100	149600	147200	145600	138300	128200	134300
26	123100	148500	150100	155200	162600	147700	148300	147300	145400	138000	127900	134100
27	123000	148300	153200	154200	162100	147100	145900	147500	145300	137600	128000	133900
28	122900	148100	154400	152600	163400	147500	145400	147600	145100	137300	128700	133800
29	123100	147800	155300	152400	---	148100	145700	147700	144900	136900	129700	133600
30	123100	147500	155100	155500	---	148400	145800	147700	144600	136600	129900	133400
31	123400	---	154600	156700	---	148300	---	147700	---	136200	130500	---
MEAN	123500	143900	147700	150900	156300	168400	149300	148200	146300	140900	131400	134100
MAX	125800	149600	155300	156700	169800	196600	152200	152700	147700	144500	135800	135300
MIN	122400	123600	145500	143400	146400	147100	145400	146000	144600	136200	127900	130400
(+)	451.93	455.40	456.41	456.70	457.59	455.51	455.15	455.43	454.97	453.77	452.97	453.39
(@)	-2900	+24100	+7100	+2100	+6700	-15100	-2500	+1900	-3100	-8400	-5700	+2900
CAL YR 2000	MAX 155300	MIN 105000	(@)	+45900								
WTR YR 2001	MAX 196600	MIN 122400	(@)	+7100								

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

08095550 Waco Lake near Waco, TX--Continued



BRAZOS RIVER BASIN

08095550 Waco Lake near Waco, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1969 to Sept. 1982, Feb. 1998 to current year.

BIOCHEMICAL DATA: Oct. 1969 to Sept. 1982, Feb. 1998 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 2000 TO SEPTEMBER 2001

313430097113801 -- Waco Lk Site AC

DATE	TIME	RESER- VOIR STORAGE (AC-FT) (00054)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED DIS- SATUR- ATION (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT UM-MF (COLS./ 100 ML) (31625)	COLI- FORM, FECAL, E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL AS (MG/L CACO3) (00900)	
FEB													
13...	0820	147000	1.37	1.00	360	8.2	11.0	10.2	92	27	--	28	150
13...	0822	--	--	10.0	364	8.2	11.0	10.2	92	--	--	--	--
13...	0824	--	--	20.0	365	8.2	11.0	10.1	91	--	--	--	--
13...	0826	--	--	30.0	365	8.1	11.0	10.1	91	--	--	--	--
13...	0828	--	--	40.0	361	8.1	11.0	10.1	91	--	--	--	--
13...	0830	--	--	50.0	361	8.1	11.0	10.0	90	--	--	--	--
13...	0832	--	--	60.0	361	8.1	10.5	9.9	88	--	--	--	--
13...	0834	--	--	71.0	360	8.1	10.5	9.8	87	--	--	--	150
MAY													
21...	1536	148000	1.04	1.00	390	8.1	25.0	7.2	88	<2	<2	--	160
21...	1538	--	--	10.0	390	8.0	25.0	7.1	87	--	--	--	--
21...	1540	--	--	20.0	389	8.0	25.0	7.0	86	--	--	--	--
21...	1542	--	--	30.0	389	8.0	25.0	7.0	86	--	--	--	--
21...	1544	--	--	40.0	390	8.0	25.0	6.8	83	--	--	--	--
21...	1546	--	--	50.0	391	7.9	24.5	6.3	77	--	--	--	--
21...	1548	--	--	60.0	400	7.4	23.5	1.4	17	--	--	--	--
21...	1550	--	--	69.0	405	7.3	22.0	.3	3	--	--	--	170
AUG													
01...	1130	--	--	--	--	--	--	--	--	--	--	--	--
01...	1156	136000	1.22	1.00	313	8.3	31.0	7.6	103	<2	<2	--	120
01...	1158	--	--	10.0	315	8.1	30.0	6.6	88	--	--	--	--
01...	1200	--	--	20.0	316	7.9	29.5	5.5	72	--	--	--	--
01...	1202	--	--	30.0	317	7.7	30.0	4.5	--	--	--	--	--
01...	1204	--	--	40.0	317	7.6	29.5	3.7	49	--	--	--	--
01...	1206	--	--	50.0	327	7.3	29.0	3.8	50	--	--	--	--
01...	1208	--	--	55.0	330	7.3	29.0	.4	5	--	--	--	--
01...	1210	--	--	60.0	333	7.3	28.5	.00	.0	--	--	--	--
01...	1212	--	--	66.0	347	7.2	28.0	.00	.0	--	--	--	140

313430097113801 -- Waco 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 TOT IT FIELD MG/L AS CACO3 AS SO4 (39086)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
FEB													
13...	14	53.3	4.17	14.6	.5	17	3.29	136	26.4	12.7	.2	8.4	214
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	9	51.8	4.11	14.2	.5	18	3.11	137	26.6	12.8	.2	8.2	212
MAY													
21...	17	56.7	4.72	12.8	.4	14	3.16	144	26.6	12.9	.2	3.1	212
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	22	61.6	4.90	12.5	.4	13	3.24	152	25.6	12.7	.2	4.4	222
AUG													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	13	40.0	5.37	14.4	.6	20	3.50	109	24.3	14.6	.3	6.8	175
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	9	46.6	5.40	14.0	.5	18	3.21	130	19.9	14.0	.3	8.6	193

BRAZOS RIVER BASIN

08095550 Waco Lake near Waco, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

313430097113801 -- Waco Lk Site AC

DATE	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD GF, REC (UG/L) (82685)	PRON- AMIDE WATER FLTRD GF, REC (UG/L) (82676)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT GF, REC (UG/L) (82661)
FEB											
13...	<.010	<.011	<.023	<.004	.025	<.016	<.034	<.017	<.005	<.002	<.009
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
21...	<.010	<.011	<.023	<.004	.014	<.016	<.034	<.017	<.005	<.002	<.009
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.010	<.011	<.023	<.004	.012	<.016	<.034	<.017	<.005	<.002	<.009
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

313511097122801 -- Waco Lk Site AL

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB							
13...	0848	1.00	362	8.2	11.0	10.2	92
13...	0850	10.0	364	8.2	11.0	10.2	92
13...	0852	20.0	362	8.2	11.0	10.2	92
13...	0854	32.0	365	8.1	11.0	10.0	90
MAY							
21...	1614	1.00	389	8.1	24.5	7.0	85
21...	1616	10.0	390	8.0	24.5	7.2	88
21...	1618	20.0	390	8.0	24.5	7.1	86
21...	1620	31.0	390	8.0	24.5	7.1	86
AUG							
01...	1312	1.00	313	8.2	31.5	7.4	101
01...	1314	10.0	314	8.3	30.0	7.7	102
01...	1316	20.0	314	8.2	30.0	7.0	93
01...	1318	29.0	315	7.9	29.5	5.6	74

BRAZOS RIVER BASIN

08095550 Waco Lake near Waco, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

313338097130301 -- Waco Lk Site BC

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB								
13...	1038	1.16	1.00	365	8.2	11.0	10.6	95
13...	1040	--	10.0	369	8.2	11.0	10.6	95
13...	1042	--	20.0	373	8.2	11.0	10.5	94
13...	1044	--	32.0	374	8.2	11.0	10.3	92
MAY								
21...	1742	--	1.00	391	8.0	24.5	7.1	86
21...	1744	--	10.0	391	8.0	24.5	7.1	86
21...	1746	--	20.0	391	8.0	24.5	7.1	86
21...	1748	--	31.0	391	8.0	24.5	7.0	85
AUG								
01...	1436	1.16	1.00	312	8.3	31.5	8.0	109
01...	1438	--	10.0	314	8.2	29.5	7.4	98
01...	1440	--	20.0	317	7.9	29.5	5.9	78
01...	1442	--	29.0	320	7.8	29.5	5.2	69

313148097140601 -- Waco Lk Site CC

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF WATER (COLS./100 ML)	E COLI, MTEC MF WATER (COLS./100 ML)	FECAL STREP, KF STRP MF, WATER (COLS./100 ML)	HARD-NESS TOTAL (MG/L CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB													
13...	1052	.49	1.00	398	8.2	11.5	10.4	94	E9	--	E19	170	16
13...	1054	--	10.0	397	8.2	11.0	10.4	93	--	--	--	--	--
13...	1056	--	23.0	390	8.1	11.0	10.1	91	--	--	--	160	16
MAY													
21...	1800	.27	1.00	396	8.0	24.0	6.9	83	E5	E4	--	170	16
21...	1802	--	10.0	399	8.0	24.0	6.7	81	--	--	--	--	--
21...	1804	--	23.0	399	7.9	24.0	6.5	78	--	--	--	170	18
MAY 21-													
JUN 01													
1804	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
01...	1454	.71	1.00	323	8.4	31.5	8.8	120	E6	<2	--	130	13
01...	1456	--	5.00	320	7.9	29.5	6.2	82	--	--	--	--	--
01...	1458	--	10.0	320	7.8	29.0	5.4	71	--	--	--	--	--
01...	1500	--	20.0	332	7.8	29.0	4.9	64	--	--	--	130	14

313148097140601 -- Waco Lk Site CC

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 TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY WAT DIS FIX END FIELD (MG/L AS CACO3) (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)
FEB													
13...	61.1	3.56	14.4	.5	16	2.47	151	--	27.8	12.2	.3	8.1	235
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	57.9	3.75	14.3	.5	16	2.82	--	140	27.4	12.6	.3	8.3	226
MAY													
21...	58.8	4.65	13.2	.4	14	3.07	150	--	26.7	12.2	.2	3.8	218
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	60.0	4.68	13.3	.4	14	3.29	151	--	26.9	12.5	.3	4.0	220
MAY 21-													
JUN 01													
--	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
01...	42.2	5.26	14.4	.6	19	3.81	114	--	23.9	15.1	.3	7.3	181
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	43.4	5.30	14.7	.6	19	3.53	116	--	23.7	14.8	.3	8.1	183

08095550 Waco Lake near Waco, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

313148097140601 -- Waco Lk Site CC

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	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									
13...	3.17	.021	3.19	<.041	.21	<.060	<.018	<10	<3.2
13...	--	--	--	--	--	--	--	--	--
13...	2.82	.019	2.84	<.041	.18	<.060	<.018	<10	<3.2
MAY									
21...	1.08	.080	1.16	<.040	.26	<.060	<.020	<10	<3.0
21...	--	--	--	--	--	--	--	--	--
21...	1.04	.077	1.12	<.040	.24	E.032	<.020	<10	8.8
MAY 21- JUN 01	1.04	.077	1.12	<.040	.24	E.032	<.020	--	--
AUG									
01...	--	<.006	E.025	E.022	.23	<.060	<.020	<10	<3.0
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
01...	--	<.006	E.027	E.027	.29	<.060	<.020	<10	91.0

313534097142401 -- Waco Lk Site DC

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	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)
FEB													
13...	0906	.91	1.00	362	8.2	11.0	10.2	92	1.87	.018	1.89	E.026	--
13...	0908	--	10.0	360	8.2	11.0	10.1	91	--	--	--	--	--
13...	0910	--	20.0	363	8.1	11.0	9.8	88	--	--	--	--	--
13...	0912	--	30.0	365	8.1	11.0	9.4	84	--	--	--	--	--
13...	0914	--	37.0	368	8.0	11.0	9.2	83	1.70	.020	1.72	.058	.22
MAY													
21...	1642	.58	1.00	387	8.1	25.0	7.0	86	.878	.053	.931	E.023	--
21...	1644	--	10.0	386	8.1	25.0	7.0	86	--	--	--	--	--
21...	1646	--	20.0	387	8.1	25.0	7.0	86	--	--	--	--	--
21...	1648	--	30.0	387	8.1	25.0	7.0	86	--	--	--	--	--
21...	1650	--	35.0	389	8.0	25.0	6.8	83	.939	.055	.994	E.021	--
AUG													
01...	1328	.99	1.00	308	8.5	31.5	8.3	113	--	<.006	E.028	E.022	--
01...	1330	--	10.0	310	8.1	30.0	6.1	81	--	--	--	--	--
01...	1332	--	20.0	310	8.1	30.0	6.1	81	--	--	--	--	--
01...	1334	--	33.0	317	7.6	29.5	3.2	42	--	<.006	E.028	.165	.30

313534097142401 -- Waco Lk Site DC

DATE	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					
13...	.23	<.060	E.011	<10	<3.2
13...	--	--	--	--	--
13...	--	--	--	--	--
13...	--	--	--	--	--
13...	.28	E.032	E.009	<10	4.2
MAY					
21...	.28	<.060	<.020	<10	<3.0
21...	--	--	--	--	--
21...	--	--	--	--	--
21...	--	--	--	--	--
21...	.32	<.060	<.020	<10	6.7
AUG					
01...	.26	<.060	<.020	<10	E2.4
01...	--	--	--	--	--
01...	--	--	--	--	--
01...	.46	<.060	<.020	<10	124

BRAZOS RIVER BASIN

08095550 Waco Lake near Waco, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

313608097164501 -- Waco Lk Site EC

DATE	TIME	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	FECAL STREP, KF STRP WATER (COL/ 100 ML) (31673)	HARD- NESS TOTAL AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB													
13...	0938	.58	1.00	427	8.3	11.5	11.4	104	92	--	43	190	11
13...	0940	--	10.0	436	8.2	11.0	10.9	98	--	--	--	--	--
13...	0942	--	21.0	437	8.1	11.0	10.1	91	--	--	--	200	19
MAY													
21...	1710	.55	1.00	443	7.8	26.5	7.3	92	44	E18	--	190	17
21...	1712	--	10.0	444	7.7	26.5	5.7	72	--	--	--	--	--
21...	1714	--	15.0	428	7.2	25.0	.00	.0	--	--	--	--	--
21...	1716	--	20.0	415	7.0	24.0	.00	.0	--	--	--	180	8
MAY 21- JUN 01	1716	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
01...	1354	1.09	1.00	409	7.7	33.0	6.4	90	E8	E3	--	150	6
01...	1356	--	10.0	409	7.4	31.0	3.5	47	--	--	--	--	--
01...	1358	--	15.0	442	6.8	29.5	.00	.0	--	--	--	--	--
01...	1400	--	20.0	553	6.6	27.0	.00	.0	--	--	--	220	--

313608097164501 -- Waco Lk Site EC

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 TOT IT FIELD CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
FEB													
13...	67.3	5.94	12.3	.4	12	3.66	182	28.6	12.6	.2	5.1	248	.650
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	69.6	5.88	12.9	.4	12	3.42	179	29.2	12.9	.2	5.2	250	.845
MAY													
21...	63.8	7.05	15.6	.5	15	3.13	171	26.0	16.4	.3	10.5	245	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	63.1	5.39	11.2	.4	12	3.53	172	15.8	11.8	.2	11.0	227	--
MAY 21- JUN 01	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
01...	48.5	7.50	24.2	.9	25	3.23	146	25.9	21.5	.3	14.7	233	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	72.8	8.23	20.0	.6	16	3.92	260	5.2	19.1	.2	18.1	313	--

313608097164501 -- Waco Lk Site EC

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- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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										
13...	.008	.658	<.041	--	.20	<.060	<.018	--	M	E2.1
13...	--	--	--	--	--	--	--	--	--	--
13...	.007	.852	E.032	--	.23	<.060	<.018	--	<10	14.7
MAY										
21...	E.003	E.029	<.040	--	.27	<.060	<.020	--	<10	9.9
21...	<.006	<.050	E.025	--	.30	<.060	<.020	--	<10	38.0
21...	--	--	--	--	--	--	--	--	--	--
21...	<.006	<.050	.637	.34	.98	<.060	<.020	--	610	768
MAY 21- JUN 01	<.006	<.050	.637	.34	.98	<.060	<.020	--	--	--
AUG										
01...	<.006	E.027	E.021	--	.25	<.060	<.020	--	<10	5.0
01...	<.006	E.037	.074	.29	.36	<.060	<.020	--	30	54.6
01...	--	--	--	--	--	--	--	--	--	--
01...	<.006	E.030	5.35	.00	5.4	.074	.073	.224	1300	1500

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BRAZOS RIVER BASIN

08095600 Bosque River near Waco, TX

LOCATION.--Lat 31°36'04", long 97°11'36", McLennan County, Hydrologic Unit 12060203, on downstream side of bridge on Farm Road 1637, 1.8 mi downstream from Waco Lake Dam, 2.8 mi upstream from mouth, and 4.7 mi northwest of courthouse in Waco.

DRAINAGE AREA.--1,656 mi².

PERIOD OF RECORD.--

CHEMICAL DATA: Feb. 1998 to current year.

BIOCHEMICAL DATA: Feb. 1998 to current year.

Water-discharge records.--Aug. 1959 to Sept. 1981 (daily mean discharge). Oct. 1981 to Sept. 1982 (daily mean discharge above 2,000 ft³/s).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
FEB 13...	1545	738	370	8.3	11.4	3.5	10.3	94.7	<2.0	151	20	53.5	4.11
MAY 22...	1430	--	389	7.9	26.0	5.5	7.4	91.6	<2.0	169	27	59.1	5.11
AUG 01...	1450	--	460	7.9	32.0	--	5.7	134	2.3	155	26	52.0	6.19

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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-PENDEED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)
FEB 13...	14.4	.510	16.8	3.22	131	27.2	13.1	.2	7.7	227	211	<10	2.02
MAY 22...	12.6	.421	13.7	3.19	142	26.5	12.4	.2	3.2	214	212	<10	.975
AUG 01...	27.4	.958	27.2	3.34	129	36.2	33.7	.3	8.8	261	245	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, 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)	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)
FEB 13...	.016	2.04	E.024	.25	<.060	<.018	3.5	<1	.14	E2.0	42.0	<.06	<.04
MAY 22...	.056	1.03	<.040	.29	<.060	<.020	3.9	1	.12	E1.6	46.2	<.06	E.02
AUG 01...	E.005	E.044	E.022	.35	<.060	<.020	6.1	2	.16	5.6	61.3	<.06	E.03

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB 13...	<.8	.15	1.0	<10	<.08	.8	E.17	1.7	.93	<2.4	<1.0	<1	.79
MAY 22...	<.8	.20	1.2	<10	<.08	2.3	.02	1.3	1.39	<2.0	<1.0	1	.90
AUG 01...	<.8	.08	.8	<10	.09	2.4	<.01	1.8	<.06	<2.0	<1.0	4	.98

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BRAZOS RIVER BASIN

08096500 Brazos River at Waco, TX

LOCATION.--Lat 31°32'09", long 97°04'23", McLennan County, Hydrologic Unit 12060202, on left bank 2.2 mi downstream from bridge on LaSalle Avenue and at mile 400.7.

DRAINAGE AREA.--29,573 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Sept. 1898 to current year. Monthly discharge only for some periods published in WSP 1312.

REVISED RECORDS.--WSP 850 and 878: 1899-1900, 1907-09 (monthly and yearly summaries only). WSP 1512: 1901-05, 1910, 1915, 1925-26(M), 1927-29. WSP 1922: 1957. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 349.34 ft above sea level. Sept. 14, 1898, to Mar. 28, 1918, May 6, 1922, to Feb. 12, 1925, nonrecording gage, and Mar. 28, 1918, to May 5, 1922, Feb. 13, 1925, to Aug. 14, 1969, water-stage recorder. Prior to Aug. 14, 1969, at site 3.9 mi upstream at datum 7.46 ft higher. Satellite telemeter at station.

REMARKS.--Records poor. Since water year 1941, at least 10% of contributing drainage area has been regulated. The city of Waco diverts water above station for municipal use, and the Brazos River Authority returns treated wastewater effluent to the river above station. There are many other small diversions above station for municipal supply, irrigation, and for oil field operations that will not appreciably affect flow. Flow is affected at times by discharge from the flood-detention pools of eleven floodwater-retarding structures with a combined detention capacity of 6,420 acre-ft. These structures control runoff from 20.4 mi² in the Aquilla and Hackberry Creeks drainage basins.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--42 years (water years 1899-1940), 2,560 ft³/s (1,855,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1899-1940).--Maximum discharge since 1847, 246,000 ft³/s Sept. 27, 1936 (gage height, 40.90 ft), at former site and datum, levee on left bank was overtopped and broken by flood; no flow Aug. 20, 21, 1918, and for several days in Aug. 1923.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage for 1847-98, 34.63 ft May 28, 1885, from floodmark at site 3.9 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	30	390	1240	2730	19500	8040	1100	572	215	212	175
2	36	65	662	1520	2580	22500	7240	3720	230	125	514	616
3	35	2210	1010	1220	2430	21000	2450	3110	1920	109	678	395
4	30	2730	679	1360	2330	22400	1200	1820	946	828	27	400
5	27	699	721	1190	2310	21500	1120	3600	178	281	138	587
6	968	2320	784	1140	2490	13000	1250	3590	537	49	696	114
7	306	902	501	2980	2340	10500	2200	2760	374	354	520	537
8	156	1150	1300	3020	2210	11800	2680	4450	10	1520	474	1160
9	314	1680	475	1410	1980	15700	2810	4230	20	501	410	789
10	223	445	159	1620	1590	13500	2940	4340	72	1800	1670	269
11	125	467	151	1950	1010	13400	2290	2960	111	1830	834	133
12	27	535	1880	1880	686	17000	3130	5180	112	1010	996	98
13	29	933	1820	2020	1280	24500	3230	3330	429	1530	1450	79
14	27	1340	1740	2060	1400	e26600	4670	2620	479	1090	1540	68
15	27	2290	643	2090	1840	25700	5060	1790	1330	966	1630	484
16	170	2800	458	1880	5270	24000	5020	2260	879	1190	1520	1420
17	40	840	938	1660	6630	13400	4990	1810	555	1210	1090	1010
18	48	1360	336	2980	3470	12000	4890	3050	229	1570	1440	492
19	39	880	893	2510	12100	11800	2140	884	124	3110	1210	254
20	33	1100	969	1650	13800	11000	1280	1150	61	1140	2100	187
21	226	1430	701	1220	9120	10300	1100	869	56	1190	1910	796
22	125	701	165	877	8690	9990	629	374	795	1680	1990	104
23	125	1060	1080	864	8510	6660	816	871	98	2220	1600	106
24	39	1940	29	1390	8540	3690	1250	1420	64	2200	1990	83
25	39	1160	743	1070	8450	3230	4860	511	1020	1370	1420	95
26	38	795	5610	979	8360	7100	1660	1160	192	1140	1720	85
27	36	702	4400	1900	8410	8420	2650	590	866	1740	453	67
28	33	665	1340	2120	8980	15800	1750	2320	807	1470	2170	51
29	246	620	1420	2720	---	16200	1820	50	455	1400	444	873
30	25	1280	1510	3230	---	16000	1800	809	217	355	2850	251
31	27	---	1290	2750	---	8980	---	1360	---	1840	568	---
TOTAL	3656	35129	34797	56500	139536	457170	86965	68088	13738	37033	36264	11778
MEAN	118	1171	1122	1823	4983	14750	2899	2196	458	1195	1170	393
MAX	968	2800	5610	3230	13800	26600	8040	5180	1920	3110	2850	1420
MIN	25	30	29	864	686	3230	629	50	10	49	27	51
AC-FT	7250	69680	69020	112100	276800	906800	172500	135100	27250	73450	71930	23360

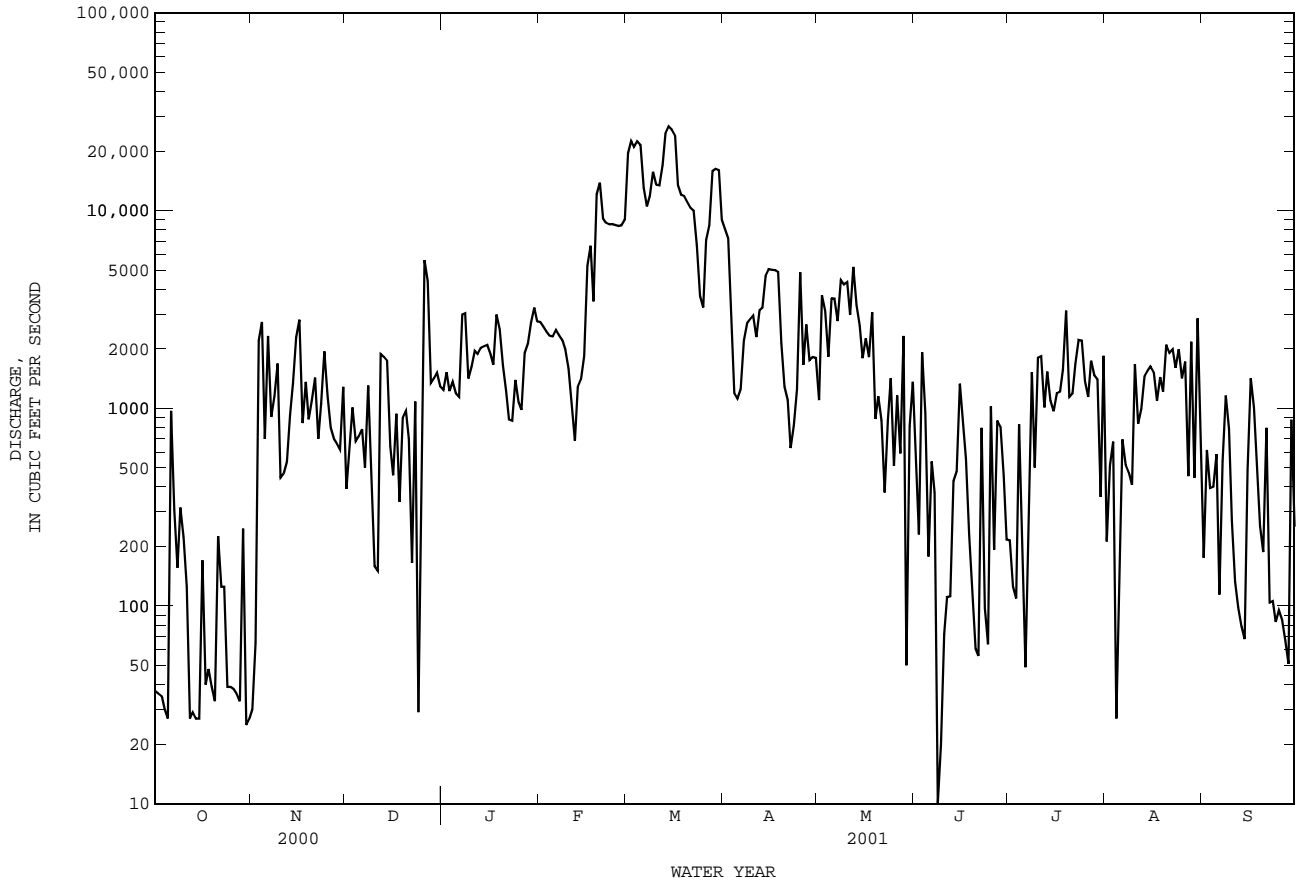
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001z, BY WATER YEAR (WY)

MEAN	1894	1437	1531	1866	2168	2738	2829	5340	4227	1659	1092	1209
MAX	13540	11150	15070	28140	16860	20260	22470	36340	37140	9427	7300	9492
(WY)	1960	1975	1992	1992	1992	1992	1942	1957	1957	1982	1995	1966
MIN	38.6	43.2	40.8	44.6	28.0	71.2	160	43.5	142	49.2	98.3	33.3
(WY)	2000	2000	1955	1955	1984	2000	1955	1988	1999	1978	1988	1999

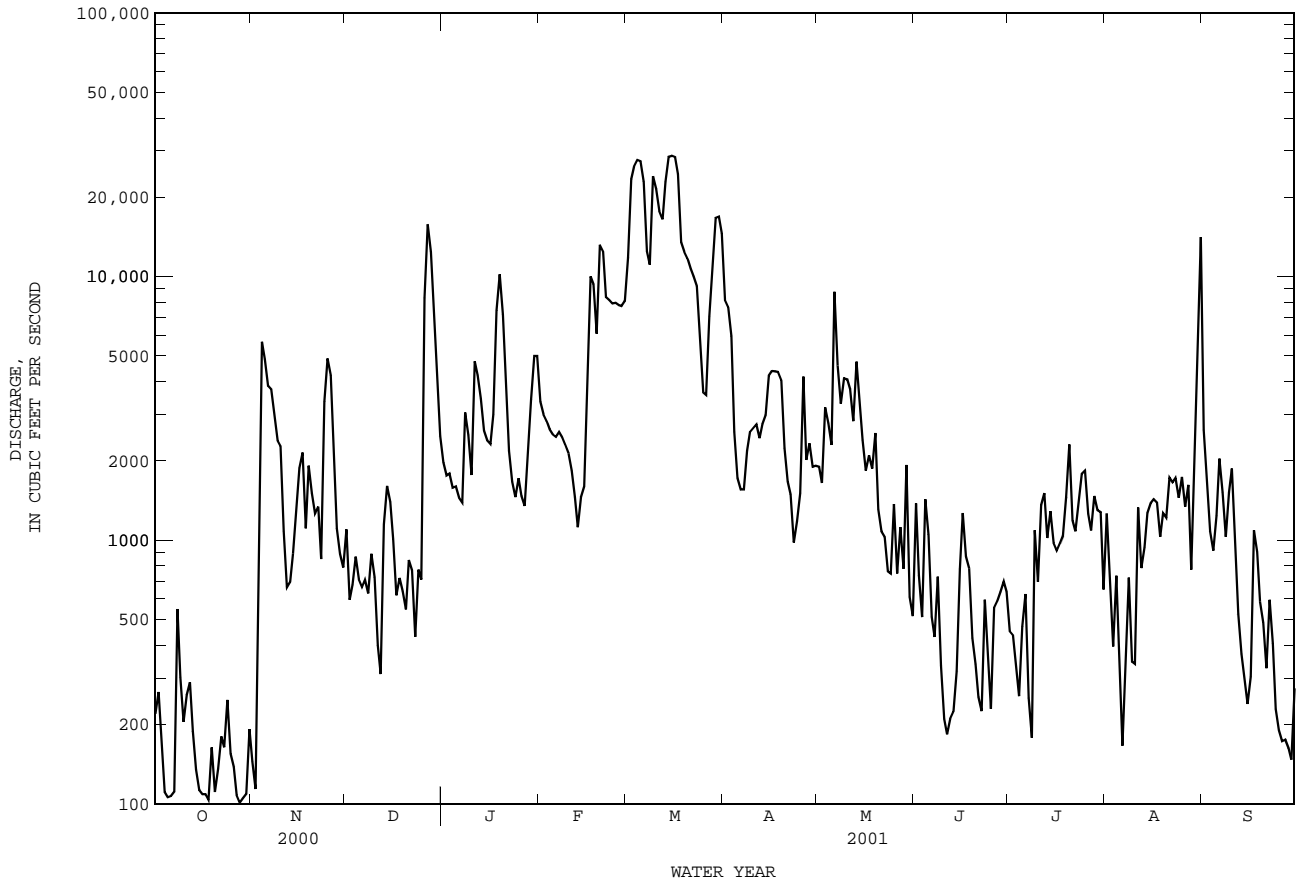
08096500 Brazos River at Waco, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001z	
ANNUAL TOTAL	200682.6		980654		2333	
ANNUAL MEAN	548		2687		9611	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					322	
HIGHEST DAILY MEAN	10300	Jun 4	e26600	Mar 14	121000	Apr 22 1945
LOWEST DAILY MEAN	2.7	Apr 1	10	Jun 8	.12	Aug 7 1988
ANNUAL SEVEN-DAY MINIMUM	12	Feb 2	53	Oct 12	4.4	May 13 1988
MAXIMUM PEAK FLOW			26800	Mar 14	144000	Apr 22 1945
MAXIMUM PEAK STAGE			19.14	Mar 14	36.70	Apr 22 1945
ANNUAL RUNOFF (AC-FT)	398100		1945000		1690000	
10 PERCENT EXCEEDS	1340		8380		4830	
50 PERCENT EXCEEDS	204		1200		835	
90 PERCENT EXCEEDS	17		81		127	

e Estimated
z Period of regulated streamflow.



08098290 Brazos River near Highbank, TX--Continued



BRAZOS RIVER BASIN

08099000 Leon Reservoir near Ranger, TX

LOCATION.--Lat 32°21'49", long 98°40'31", Eastland County, Hydrologic Unit 12070201, behind Lake Patrol Office, 180 ft upstream from dam and 100 ft left of outlet works near left end of dam on Leon River, 7.4 mi south of Ranger, 8.7 mi southeast of Eastland, and 274.1 mi upstream from mouth.

DRAINAGE AREA.--259 mi².

PERIOD OF RECORD.--Jan. 1955 to Sept. 1983, Mar. 1999 to current year.
Water-quality records.--Chemical data: Oct. 1969 to May 1983.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Jan. 1955 to Sept. 1983 nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 3,700 ft long. Storage began in Apr. 1954 and dam was completed in June 1954. The emergency spillway is a 1,200-foot-wide cut through natural ground near the left end of dam. The service spillway is an uncontrolled circular concrete drop inlet designed for a maximum discharge of 5,000 ft³/s through an 11-foot-diameter concrete conduit. The dam is the property of Eastland County Water Supply District and was built to impound water for municipal use by the cities of Ranger, Olden, and Eastland. Conservation pool storage is 26,420 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,398.0
Crest of emergency spillway.....	1,382.0
Crest of service spillway.....	1,374.5
Lowest gated outlet (invert).....	1,335.0

COOPERATION.--The capacity curve dated Sept. 23, 1952, was furnished by Eastland County Water Supply District and is based on a survey by Freese and Nichols, Consulting Engineers, Fort Worth, Texas.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 40,640 acre-ft, June 13, 1967, elevation, 1,382.20 ft; minimum contents, 14,420 acre-ft, Oct. 15, 2000, elevation, 1,364.79 ft.

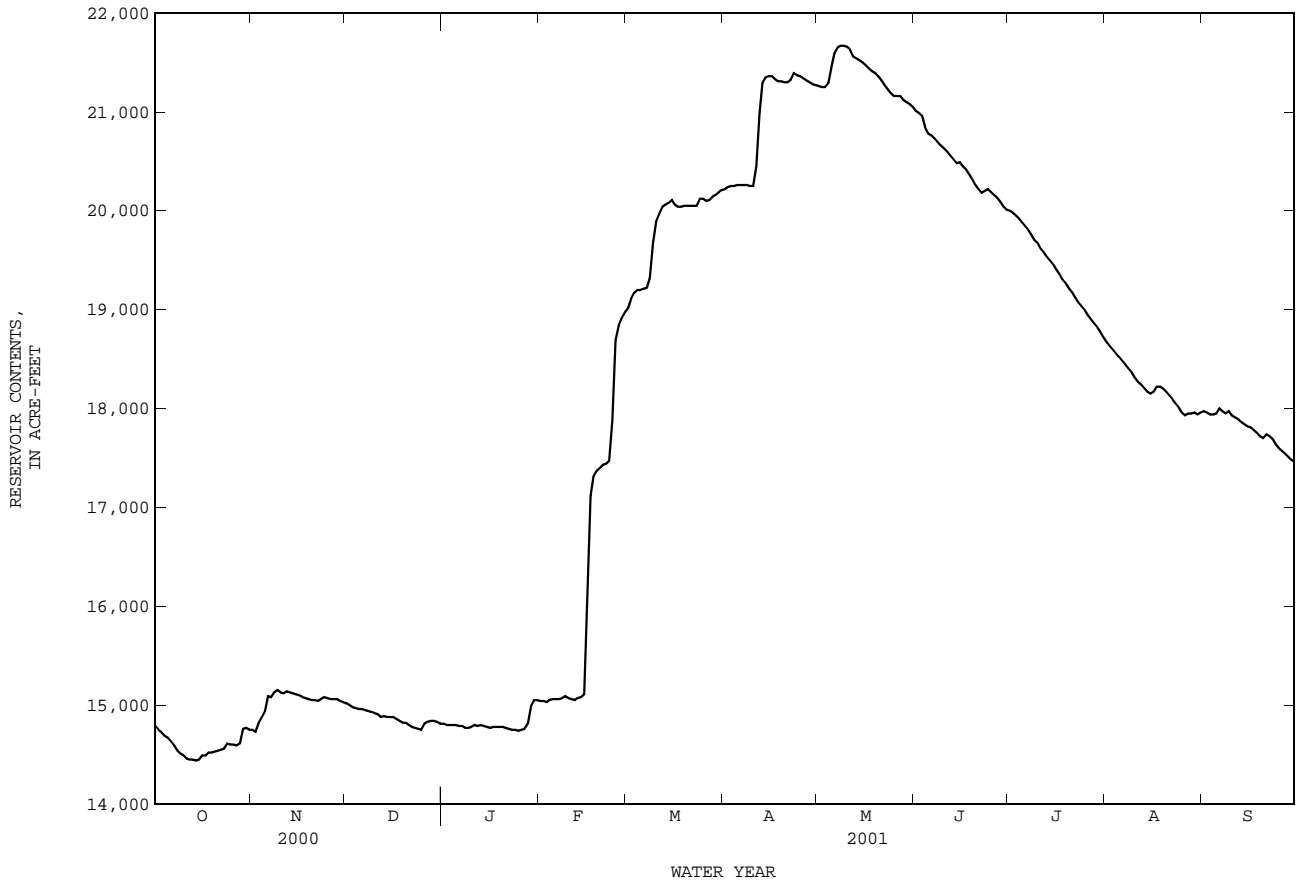
EXTREMES FOR CURRENT YEAR.--Maximum contents, 21,700 acre-ft, May 8, elevation, 1,371.14 ft; minimum contents, 14,420 acre-ft, Oct. 15, elevation, 1,364.79 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14790	14750	15020	14810	15040	19010	20220	21260	21010	20000	18670	17970
2	14750	14730	15000	14800	15040	19110	20240	21250	20990	19980	18630	17960
3	14720	14820	14980	14800	15030	19170	20250	21250	20960	19950	18590	17940
4	14690	14880	14970	14800	15050	19200	20250	21290	20840	19920	18550	17940
5	14670	14930	14960	14800	15060	19200	20260	21460	20780	19880	18520	17950
6	14630	15090	14960	14790	15060	19210	20260	21590	20760	19840	18480	18000
7	14590	15080	14950	14790	15060	19220	20260	21650	20730	19800	18440	17970
8	14540	15130	14940	14770	15070	19320	20260	21670	20690	19750	18400	17950
9	14510	15150	14930	14770	15090	19670	20250	21670	20660	19700	18360	17970
10	14490	15130	14920	14780	15070	19890	20250	21660	20630	19670	18310	17930
11	14460	15120	14910	14800	15060	19970	20450	21630	20600	19610	18270	17910
12	14450	15140	14880	14790	15050	20040	20990	21560	20560	19570	18240	17890
13	14450	15130	14890	14800	15070	20060	21290	21540	20520	19530	18200	17860
14	14440	15120	14880	14790	15080	20080	21350	21520	20480	19490	18170	17840
15	14450	15110	14880	14780	15110	20110	21360	21500	20490	19450	18150	17820
16	14490	15100	14880	14770	16100	20060	21360	21470	20450	19400	18170	17810
17	14490	15080	14860	14780	17120	20040	21330	21440	20420	19350	18220	17780
18	14520	15070	14840	14780	17310	20040	21310	21410	20370	19300	18220	17750
19	14520	15060	14820	14780	17370	20050	21310	21390	20320	19260	18200	17720
20	14530	15050	14820	14780	17400	20050	21300	21360	20260	19210	18170	17700
21	14540	15050	14800	14770	17430	20050	21300	21320	20220	19170	18130	17740
22	14550	15040	14780	14760	17440	20050	21320	21270	20180	19120	18090	17720
23	14560	15060	14770	14750	17470	20050	21390	21230	20200	19070	18050	17690
24	14610	15080	14760	14750	17880	20120	21370	21190	20220	19030	18010	17640
25	14600	15070	14750	14740	18690	20120	21360	21160	20190	18990	17960	17600
26	14600	15060	14810	14750	18840	20100	21340	21160	20160	18940	17930	17570
27	14590	15060	14830	14760	18910	20110	21320	21160	20130	18900	17950	17540
28	14610	15060	14840	14810	18970	20140	21300	21120	20090	18860	17950	17510
29	14760	15040	14840	14990	---	20160	21280	21100	20040	18820	17960	17480
30	14770	15030	14830	15050	---	20190	21270	21080	20010	18770	17940	17460
31	14750	---	14810	15050	---	20210	---	21050	---	18720	17960	---
MEAN	14580	15040	14870	14800	16320	19830	20930	21370	20470	19390	18220	17790
MAX	14790	15150	15020	15050	18970	20210	21390	21670	21010	20000	18670	18000
MIN	14440	14730	14750	14740	15030	19010	20220	21050	20010	18720	17930	17460
(+)	1365.12	1365.39	1365.18	1365.41	1368.95	1369.98	1370.81	1370.63	1369.81	1368.73	1368.09	1367.64
(@)	-40	+280	-220	+240	+3920	+1240	+1060	-220	-1040	-1290	-760	-500
CAL YR 2000	MAX 18610	MIN 14440	(@) -2280									
WTR YR 2001	MAX 21670	MIN 14440	(@) +2670									

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

08099000 Leon Reservoir near Ranger, TX--Continued



BRAZOS RIVER BASIN

08099100 Leon River near DeLeon, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 32°10'25", long 98°31'58", Comanche County, Hydrologic Unit 12070201, on left bank at downstream end of bridge on State Highway 16, 1.5 mi upstream from Flat Creek, 4.4 mi northeast of De Leon, 6.0 mi downstream from Hog Creek, and 250.1 mi upstream from mouth.

DRAINAGE AREA.--479 mi².

PERIOD OF RECORD.--Sept. 1960 to Sept. 1986, Oct. 1986 to Sept. 1995 (daily mean discharges greater than 600 ft³/s), Oct. 1995 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: May 1981 to July 1982, Nov. 1990 to Aug. 1997. Biochemical data: May 1981 to July 1982, Nov. 1990 to Aug. 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,209.93 ft above sea level. Prior to Nov. 22, 1960, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in Sept. 1960, at least 10% of contributing drainage area has been regulated. There are numerous diversions above station for municipal, steam powerplant operation, and other uses.

AVERAGE DISCHARGE.--26 years (water years 1961-86), 41.1 ft³/s (29,760 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s Apr. 26, 1990 (gage height, 19.00 ft, from floodmarks), from rating curve extended above 17,600 ft³/s; prior to Apr. 26, 1990, maximum discharge, 7,540 ft³/s June 21, 1968, (gage height, 15.50 ft); no flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 19.3 ft occurred in May 1908 at a point 2,000 ft downstream from present gage site and is the highest since that time, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 6	0015	1,150	a8.86	Mar. 8	2300	1,060	8.60
Feb. 16	1915	1,510	a10.47				

a From floodmark.

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BRAZOS RIVER BASIN

08099300 Sabana River near DeLeon, TX

LOCATION.--Lat 32°06'50", long 98°36'19", Comanche County, Hydrologic Unit 12070201, on left bank at downstream end of bridge on Farm Road 587, 0.6 mi downstream from Spring Branch, 4.0 mi west of De Leon, 4.2 mi upstream from Turkey Creek, and 12.2 mi upstream from mouth.

DRAINAGE AREA.--264 mi².

PERIOD OF RECORD.--Sept. 1960 to Sept. 1986, Oct. 1986 to Sept. 1995 (daily mean discharges greater than 250 ft³/s), Oct. 1995 to Sept. 1999 (peak discharges greater than base discharge), Oct. 1999 to current year.

Water-quality records.--Chemical data: Nov. 1990 to Aug. 1997. Biochemical data: Nov. 1990 to Aug. 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,209.59 ft above sea level (levels by Texas Department of Transportation). Prior to Nov. 22, 1960, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No known regulation or diversions. Flow may be slightly affected by Nabors Lake 0.4 mi upstream on Spring Branch. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1890, 24 ft in May 1908, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.1	2.5	10	16	158	22	3.4	1.9	.00	.00	25
2	.00	.11	2.8	9.9	12	96	18	3.6	1.8	.00	.00	11
3	.00	612	2.4	9.2	8.7	56	17	418	1.7	.00	.00	1.4
4	.00	152	1.5	8.8	6.9	41	15	454	1.4	.00	.00	.26
5	.00	269	1.5	7.0	5.7	29	14	733	1.2	.00	.00	.13
6	.00	1060	1.6	6.3	5.2	24	14	230	1.0	.00	.00	23
7	.00	54	2.6	6.5	4.8	19	13	80	1.2	.00	.00	9.1
8	.00	40	2.6	5.5	4.8	328	12	43	1.3	.00	.00	1.4
9	.00	76	3.1	4.7	4.9	371	12	29	1.1	.00	.00	.57
10	.00	28	2.3	4.6	4.2	79	11	22	.89	.00	.00	.02
11	.00	12	1.1	5.0	4.4	51	12	17	.52	.00	.00	.00
12	.00	49	2.8	4.2	3.7	155	67	14	.34	.00	.00	.00
13	.00	76	4.2	4.4	3.9	62	36	13	.25	.00	.00	.00
14	.00	22	4.3	4.2	4.1	39	21	12	.00	.00	.00	.00
15	.00	10	3.0	3.8	6.5	35	15	10	.00	.00	.00	.00
16	.00	6.8	6.0	3.3	822	26	12	9.4	.00	.00	.00	.00
17	.00	4.1	9.1	3.5	144	21	9.5	7.5	.00	.00	.00	.00
18	.00	3.1	4.3	3.6	47	20	7.9	5.6	.00	.00	.00	.00
19	.00	2.2	4.2	3.6	30	20	7.0	4.8	.00	.00	.00	.00
20	.00	1.7	3.3	e3.5	22	19	5.2	4.5	.00	.00	.00	.00
21	.00	1.3	3.5	e3.0	15	18	5.6	3.6	.00	.00	.00	.00
22	.00	1.2	6.4	2.7	12	17	5.0	2.8	.00	.00	.00	.00
23	.00	1.4	6.5	3.0	16	15	5.8	2.7	.00	.00	.00	.00
24	.00	2.3	6.4	2.5	228	17	4.9	2.7	.00	.00	.00	.00
25	.00	1.3	5.7	1.9	88	28	4.1	2.5	.00	.00	.00	.00
26	.00	4.6	9.1	1.6	36	19	3.6	3.0	.00	.00	.00	.00
27	.00	3.7	11	1.7	124	17	4.0	3.1	.00	.00	.00	.00
28	.00	2.6	11	6.3	466	18	4.7	2.7	.00	.00	8.2	.00
29	120	1.8	11	154	---	20	4.3	2.5	.00	.00	36	.00
30	28	1.6	11	59	---	21	3.7	2.3	.00	.00	5.0	.00
31	6.3	---	11	26	---	25	---	2.0	---	.00	7.7	---
TOTAL	154.30	2500.91	157.8	373.3	2145.8	1864	386.3	2143.7	14.60	0.00	56.90	71.88
MEAN	4.98	83.4	5.09	12.0	76.6	60.1	12.9	69.2	.49	.000	1.84	2.40
MAX	120	1060	11	154	822	371	67	733	1.9	.00	36	25
MIN	.00	.11	1.1	1.6	3.7	15	3.6	2.0	.00	.00	.00	.00
AC-FT	306	4960	313	740	4260	3700	766	4250	29	.00	113	143

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001h, BY WATER YEAR (WY)

	1960	1965	1970	1975	1980	1985	1990	1995	2000	2001h		
MEAN	21.4	14.8	7.93	33.1	15.6	33.2	28.0	76.3	56.2	11.8	4.42	30.5
MAX	124	199	98.2	589	76.6	267	251	447	562	113	68.3	401
(WY)	1985	1965	1985	1968	2001	1968	1969	1963	1986	1962	1971	1962
MIN	.000	.000	.000	.063	.057	.014	.15	.000	.000	.000	.000	.000
(WY)	1978	1980	2000	1984	2000	2000	1981	2000	1978	1974	1970	1977

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001h	
ANNUAL TOTAL	3538.11		9869.49			
ANNUAL MEAN	9.67		27.0		27.9	
HIGHEST ANNUAL MEAN					105	
LOWEST ANNUAL MEAN					1.63	
HIGHEST DAILY MEAN	1060	Nov 6	1060	Nov 6	7060	Jun 14 1989
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	May 11 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	May 11 1962
MAXIMUM PEAK FLOW			2570	Nov 6	c19500	Apr 26 1990
MAXIMUM PEAK STAGE			18.03	Nov 6	a23.65	Apr 26 1990
ANNUAL RUNOFF (AC-FT)	7020		19580		20200	
10 PERCENT EXCEEDS	6.3		39		21	
50 PERCENT EXCEEDS	.00		3.1		1.3	
90 PERCENT EXCEEDS	.00		.00		.00	

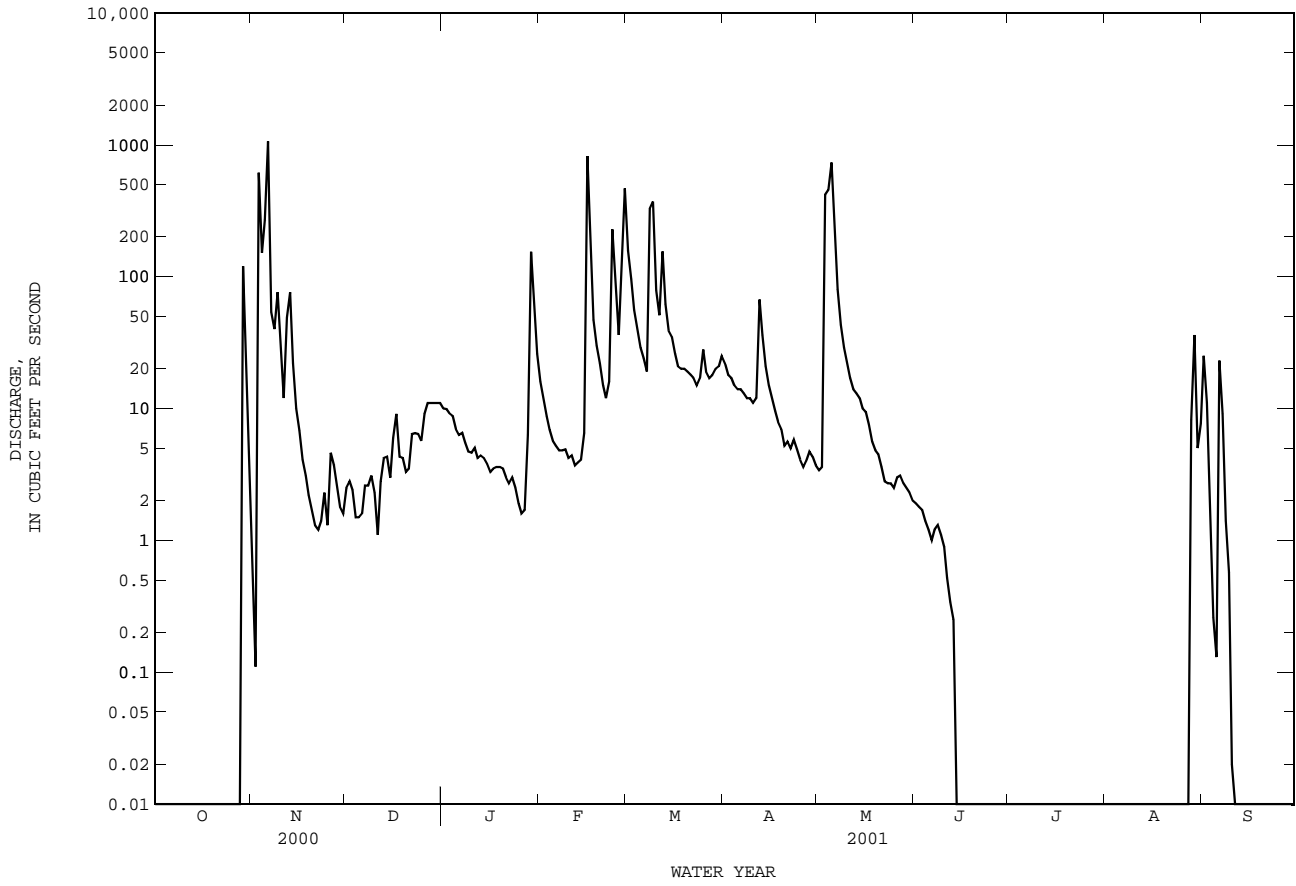
e Estimated

h See PERIOD OF RECORD paragraph.

c From rating curve extended above 17,000 ft³/s.

a From floodmark.

08099300 Sabana River near DeLeon, TX--Continued



BRAZOS RIVER BASIN

08099400 Proctor Lake near Proctor, TX

LOCATION.--Lat 31°58'07", long 98°29'09", Comanche County, Hydrologic Unit 12070201, in intake structure at Proctor Lake on Leon River, 2.0 mi upstream from U.S. Highways 67 and 377, 3.5 mi west of Proctor, and 228.1 mi upstream from mouth.

DRAINAGE AREA.--1,259 mi².

PERIOD OF RECORD.--Jan. 1963 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to current year. Prior to Oct. 1970, published as "Proctor Reservoir".

Water-quality records.--Chemical data: Jan. 1964 to July 1982, Jan. 1990 to Aug. 1997. Biochemical data: Jan. 1964 to July 1982, Jan. 1990 to Aug. 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to May 28, 1963, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a reinforced concrete gated structure and rolled earthfill dam, total length 13,460 ft. The lake was operated as a detention basin from Jan. 30 to July 5, 1963. The gates were closed July 6, 1963, but the lake was operated as a detention basin to elevation 1,156.0 ft until construction was completed. Deliberate impoundment began Sept. 30, 1963. The spillway is a gated concrete gravity structure located on the left bank, with an ogee weir section and basin. The spillway is controlled by eleven 40.0- by 35.0-foot tainter gates. The spillway was designed to discharge 431,800 ft³/s at an elevation of 1,201.0 ft. The lake is operated for flood control and water conservation. Inflow is partly regulated by Leon Reservoir (station 08099000, conservation pool storage 26,420 acre-ft). Inflow is also affected at times by discharge from the flood-detention pools of 23 floodwater-retarding structures with a combined detention capacity of 43,690 acre-ft. These structures control runoff from 172 mi² in the Leon River and Rush Creek drainage basins. Borrow is not included in capacity totals. The dam is owned by the U.S. Army Corps of Engineers. Conservation pool storage is 55,588 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,206.0
Design flood.....	1,201.0
Top of gates.....	1,197.0
Crest of spillway (top of conservation pool).....	1,162.0
Lowest gated outlet (invert).....	1,128.0

COOPERATION.--The capacity table dated Oct. 1, 1996 was provided by the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 383,100 acre-ft, May 2, 1990, elevation, 1,197.63 ft; minimum since first filling of lake, 6,090 acre-ft, Oct. 28, 2000, elevation, 1,142.36 ft.

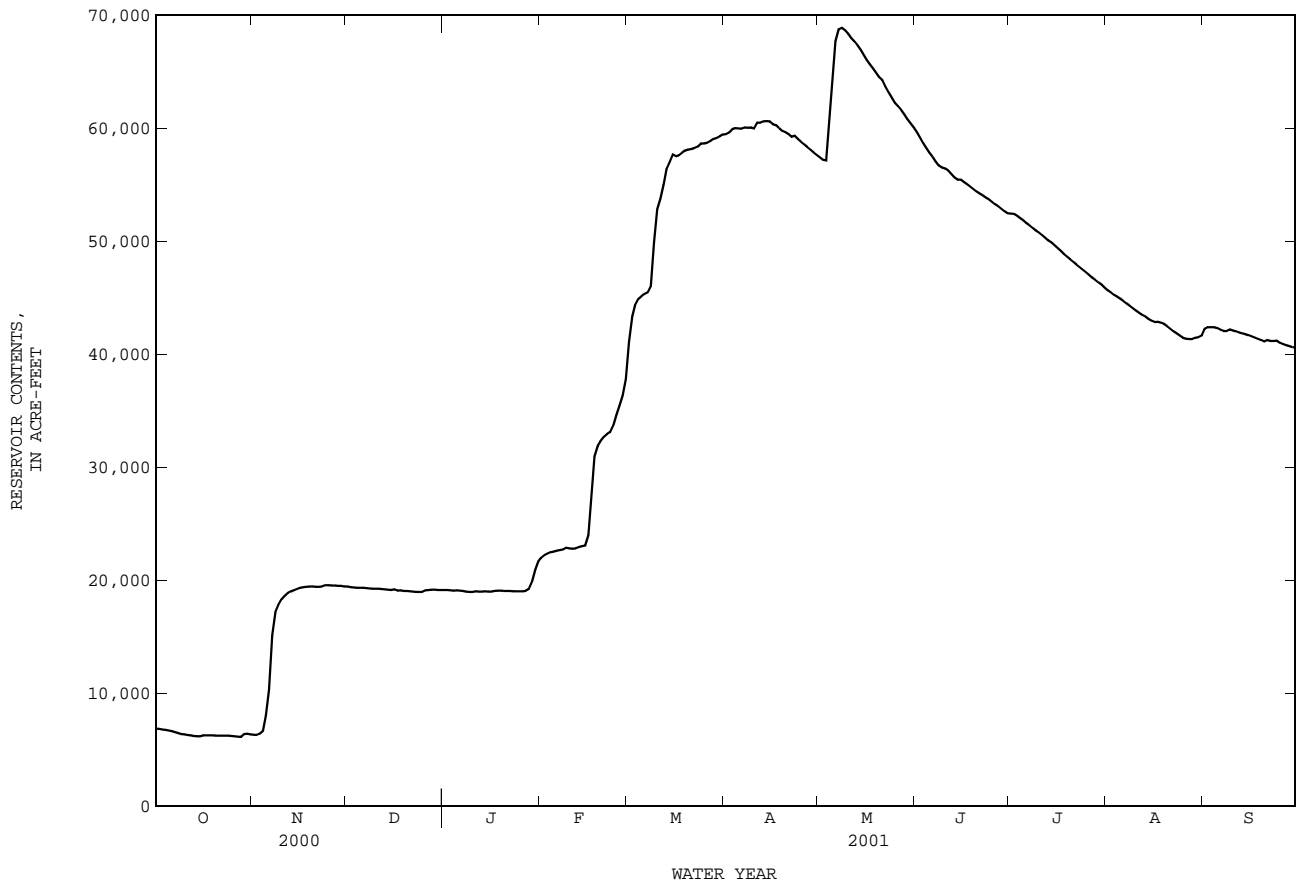
EXTREMES FOR CURRENT YEAR.--Maximum contents, 68,940 acre-ft, May 8, elevation, 1,164.70 ft; minimum contents, 6,090 acre-ft, Oct. 28, elevation, 1,142.36 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6860	6320	19430	19110	21980	41090	59460	57390	59630	52420	45640	42240
2	6820	6290	19380	19100	22190	43310	59610	57190	59200	52390	45450	42380
3	6770	6400	19340	19090	22330	44330	59910	57120	58700	52240	45240	42380
4	6720	6650	19320	19070	22460	44870	59980	60650	58240	52020	45050	42360
5	6670	7980	19310	19080	22510	45130	59960	64700	57800	51820	44880	42280
6	6610	10300	19320	19050	22610	45320	59950	67660	57440	51590	44690	42150
7	6530	15110	19270	19040	22640	45470	60060	68720	57050	51370	44460	42020
8	6450	17170	19260	18980	22700	45970	60020	68850	56680	51150	44260	42030
9	6370	17840	19240	18940	22840	49860	60040	68660	56520	50940	44030	42170
10	6330	18300	19220	18950	22790	52810	59960	68340	56410	50750	43850	42080
11	6280	18610	19240	18990	22780	53730	60480	67990	56250	50540	43650	41990
12	6240	18860	19210	18960	22800	54970	60480	67680	55940	50270	43460	41890
13	6190	18990	19180	18980	22900	56350	60600	67320	55630	50050	43310	41820
14	6160	19080	19140	18990	22980	56950	60610	66920	55420	49870	43120	41740
15	6160	19200	19120	18970	23060	57630	60580	66500	55420	49630	42950	41660
16	6240	19320	19160	18960	23950	57510	60320	66040	55220	49360	42820	41550
17	6240	19370	19070	19020	27930	57590	60240	65640	55040	49120	42840	41430
18	6260	19410	19090	19050	30920	57810	60000	65250	54840	48870	42770	41330
19	6240	19430	19030	19060	31840	58020	59730	64870	54610	48620	42650	41250
20	6230	19430	19030	19020	32320	58090	59620	64510	54390	48370	42460	41100
21	6230	19410	19010	19040	32680	58160	59460	64230	54200	48160	42230	41230
22	6230	19410	18960	19020	32920	58240	59220	63640	54030	47930	42000	41150
23	6220	19430	18940	19010	33080	58350	59300	63150	53850	47700	41840	41150
24	6220	19550	18940	19010	33670	58620	59020	62700	53670	47480	41640	41180
25	6190	19530	18940	19000	34630	58620	58780	62240	53470	47250	41450	40990
26	6160	19510	19080	19000	35500	58690	58540	61930	53260	47000	41350	40880
27	6140	19500	19120	19020	36300	58830	58320	61590	53070	46760	41320	40790
28	6120	19480	19130	19200	37770	59020	58090	61180	52860	46570	41330	40710
29	6360	19470	19140	19840	---	59120	57830	60780	52620	46350	41450	40620
30	6390	19430	19120	20910	---	59260	57600	60410	52450	46140	41490	40550
31	6340	---	19120	21620	---	59420	---	60050	---	45880	41640	---
MEAN	6350	16630	19160	19200	27250	53970	59590	64000	55460	49310	43070	41570
MAX	6860	19550	19430	21620	37770	59420	60610	68850	59630	52420	45640	42380
MIN	6120	6290	18940	18940	21980	41090	57600	57120	52450	45880	41320	40550
(+)	1142.58	1150.72	1150.57	1151.75	1157.66	1162.80	1162.42	1162.94	1161.29	1159.75	1158.69	1158.41
(@)	-680	+13090	-310	+2500	+16150	+21650	-1820	+2450	-7600	-6570	-4240	-1090
CAL YR 2000	MAX 21170	MIN 6120	(@) -1980									
WTR YR 2001	MAX 68850	MIN 6120	(@) +33530									

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

08099400 Proctor Lake near Proctor, TX--Continued



BRAZOS RIVER BASIN

08100000 Leon River near Hamilton, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 31°47'19", long 98°07'16", Hamilton County, Hydrologic Unit 12070201, at downstream side of bridge on U.S. Highway 281, 2.2 mi upstream from Mesquite Creek, 3.6 mi downstream from Bear Creek, 5.9 mi north of Hamilton, and 172.9 mi upstream from mouth.

DRAINAGE AREA.--1,891 mi².

PERIOD OF RECORD.--Jan. 1925 to Sept. 1931, Sept. 1960 to Sept. 1996 (daily mean discharge), Oct. 1996 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 955.38 ft above sea level. Jan. 7, 1925, to Sept. 30, 1931, nonrecording gage 1.4 mi downstream at datum 1.87 ft higher. Sept. 1 to Nov. 22, 1960, nonrecording gage at same site and at 5.00 ft higher datum. Nov. 22, 1960, to Sept. 30, 1972, recording gage at same site and at 5.00 ft higher datum. Satellite telemeter at station.

REMARKS.--Records fair. Since water year 1964, at least 10% of contributing drainage area has been regulated. There are numerous diversions above station for irrigation, municipal supply, and for industrial uses. Flow is affected at times by discharge from the flood-detention pools of 14 floodwater-retarding structures with a combined detention capacity of 11,610 acre-ft. These structures control runoff from 43.9 mi².

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--9 years (water years 1925-31, 1961-63) prior to regulation by Proctor Lake 148 ft³/s (107,500 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--33 years (water years 1964-96), 212 ft³/s (153,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1926-31, 1961-63).--Maximum discharge, 18,600 ft³/s Sept. 9, 1962 (gage height, 26.93 ft); no flow at times.

EXTREMES FOR REGULATED PERIOD.--Maximum discharge, 32,100 ft³/s Dec. 20, 1991 (gage height, 35.02 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1858, 38.4 ft in May 1908 and Dec. 1913; flood in Sept. 1911 reached a stage of 37.0 ft, all at present site and datum, from information by local residents. The flood in Oct. 1959 reached a stage of 34.1 ft, present datum.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
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No peak greater than base discharge.

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BRAZOS RIVER BASIN

08100500 Leon River at Gatesville, TX

LOCATION.--Lat 31°25'58", long 97°45'42", Coryell County, Hydrologic Unit 12070201, on right bank at upstream side of county road bridge, 800 ft downstream from U.S. Highway 84 bridge in Gatesville, 0.3 mi downstream from Dodds Creek, 5.2 mi upstream from Cottonwood Creek, and 99.0 mi upstream from mouth.

DRAINAGE AREA.--2,342 mi².

PERIOD OF RECORD.--Oct. 1950 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 723.85 ft above sea level. Oct. 1, 1950, to Feb. 8, 1951, nonrecording gage and Feb. 9, 1951, to Jan. 21, 1969, water-stage recorder at site 800 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since 1964, at least 10% of contributing drainage area has been regulated. Flow at times is slightly affected by discharge from 18 floodwater-retarding structures. These structures control runoff from 47.0 mi² in the northeast tributaries and Pecan Creek drainage basins. There are numerous diversions above station for irrigation, municipal supply, and oil field operation. The city of Hamilton, located about 70 mi upstream from this station, diverts flow from the river for municipal use and returns wastewater effluent to the stream. The city of Gatesville obtains all of their municipal water supply from ground-water wells, but discharges wastewater effluent back to the Leon River downstream from this station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--13 years, (water years 1951-1963), 267 ft³/s (193,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1951-1963).--Maximum discharge, 51,200 ft³/s Oct. 4, 1959 (gage height, 34.14 ft), from rating curve extended above 41,000 ft³/s; no flow at times in 1951-52 and 1954-55.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1854, about 35 ft in May 1908, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	626	68	111	583	1940	428	272	226	22	2.5	213
2	2.9	529	59	100	376	1980	393	259	218	56	2.3	362
3	3.1	1530	54	91	292	1270	368	248	211	23	2.4	253
4	3.2	830	52	84	252	1240	350	241	260	20	2.1	551
5	2.9	477	50	77	227	885	336	498	224	16	2.0	85
6	2.7	2110	51	72	210	713	321	900	195	13	2.1	55
7	2.2	2940	49	68	197	587	306	1040	182	10	2.0	40
8	1.9	2270	49	63	187	1230	297	784	181	12	1.9	51
9	1.7	701	47	60	181	2650	280	451	179	22	1.8	99
10	2.3	480	47	151	168	1790	269	327	175	19	1.9	133
11	2.3	332	47	244	169	1160	263	362	167	14	1.9	90
12	2.2	240	43	166	172	1630	312	826	117	11	1.7	56
13	2.3	194	45	148	188	3870	607	1150	75	9.6	2.1	40
14	2.3	157	44	126	197	2210	490	511	53	8.2	2.8	42
15	3.4	139	41	121	236	1140	362	417	126	7.2	2.5	40
16	24	137	43	115	2930	884	315	369	51	6.6	2.5	32
17	101	128	36	131	2390	717	314	340	79	5.9	2.4	26
18	342	136	36	290	1960	648	307	317	89	5.4	2.4	23
19	40	218	33	284	892	648	302	299	60	4.9	2.4	21
20	19	188	31	209	604	664	307	286	50	4.5	3.1	18
21	26	127	29	164	465	602	295	279	41	4.0	3.0	17
22	16	98	27	146	388	528	284	269	39	3.7	3.1	16
23	51	95	27	135	351	462	286	255	30	3.6	3.1	16
24	31	125	27	126	352	423	1570	244	25	3.5	3.4	17
25	14	125	38	118	492	438	1320	236	22	3.3	3.1	16
26	9.8	103	232	113	441	498	565	228	19	3.0	3.2	15
27	7.7	93	262	107	368	468	393	224	17	3.1	3.8	18
28	5.8	114	287	130	421	490	338	235	14	2.7	963	25
29	5.1	93	178	892	---	535	306	248	18	2.6	1040	22
30	290	77	159	1060	---	566	287	243	21	2.6	859	19
31	2160	---	128	888	---	489	---	234	---	2.7	430	---
TOTAL	3181.3	15412	2319	6590	15689	33355	12571	12592	3164	325.1	3359.5	2411
MEAN	103	514	74.8	213	560	1076	419	406	105	10.5	108	80.4
MAX	2160	2940	287	1060	2930	3870	1570	1150	260	56	1040	551
MIN	1.7	77	27	60	168	423	263	224	14	2.6	1.7	15
AC-FT	6310	30570	4600	13070	31120	66160	24930	24980	6280	645	6660	4780

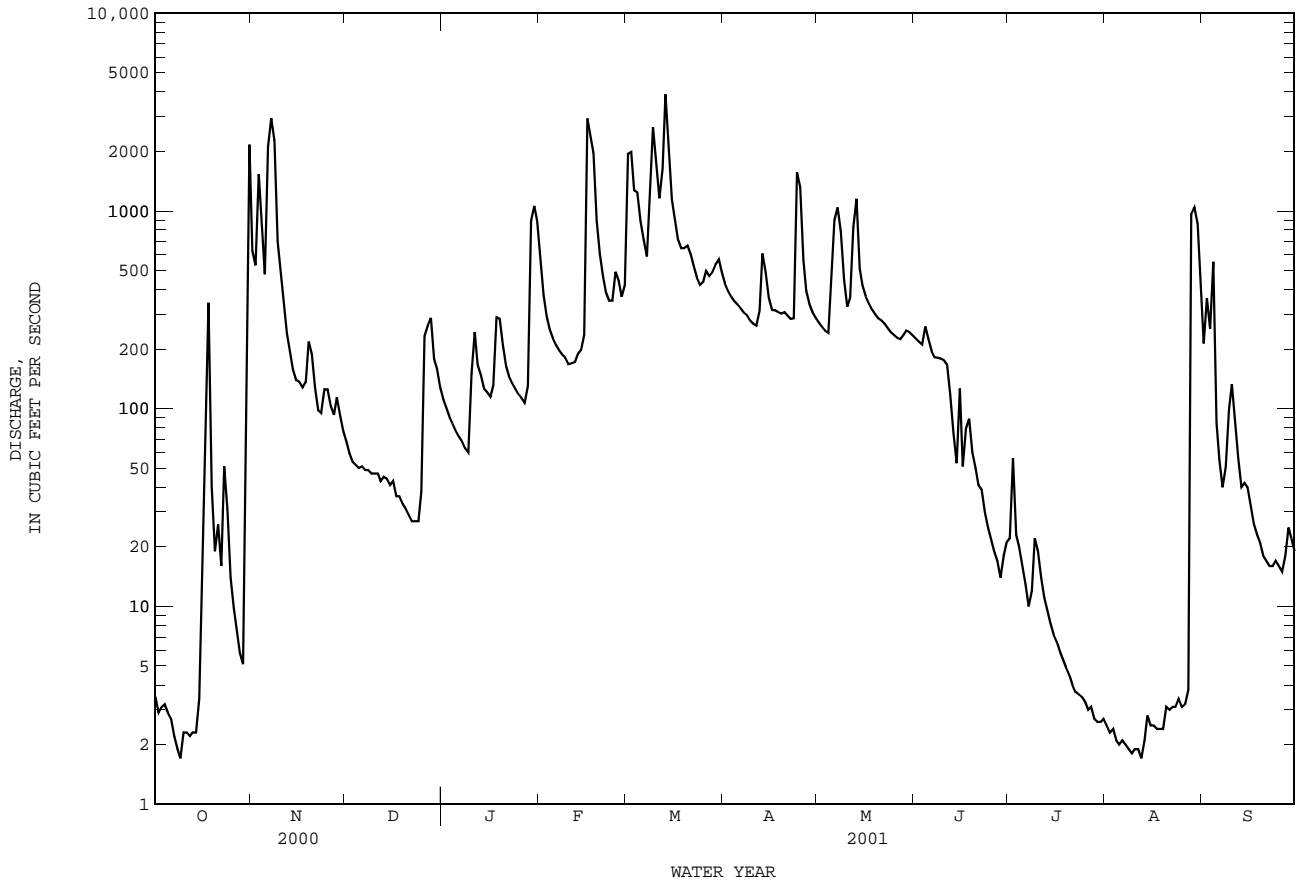
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001z, BY WATER YEAR (WY)

MEAN	116	142	238	204	382	434	455	715	546	310	185	162
MAX	714	907	4580	2517	3752	3014	2134	4899	2191	1482	1497	970
(WY)	1965	1992	1992	1992	1992	1997	1995	1990	1987	1997	1995	1996
MIN	.42	1.18	.39	1.50	5.02	7.06	.64	4.66	2.22	.17	.041	.000
(WY)	1979	1979	1984	1984	1984	1986	1984	1984	1978	1978	1984	1984

08100500 Leon River at Gatesville, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001z	
ANNUAL TOTAL	37530.0		110968.9		324	
ANNUAL MEAN	103		304		1758	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	5960	Jun 4	3870	Mar 13	49100	Dec 21 1991
LOWEST DAILY MEAN	1.7	Oct 9	1.7	Oct 9	.00	Jul 21 1971
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 23	1.9	Aug 6	.00	Aug 13 1984
MAXIMUM PEAK FLOW			4390	Feb 16	68000	Dec 21 1991
MAXIMUM PEAK STAGE			17.98	Feb 16	35.00	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	74440		220100		234400	
10 PERCENT EXCEEDS	181		801		845	
50 PERCENT EXCEEDS	11		128		46	
90 PERCENT EXCEEDS	2.3		3.1		2.3	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08101000 Cowhouse Creek at Pidcoke, TX

LOCATION.--Lat 31°17'05", long 97°53'05", Coryell County, Hydrologic Unit 12070202, on left bank on upstream side of bridge on Farm Road 116, 0.1 mi downstream from Bee House Creek, 0.6 mi northeast of Pidcoke, 4.9 mi upstream from Table Rock Creek, and 34.6 mi upstream from mouth.

DRAINAGE AREA.--455 mi².

PERIOD OF RECORD.--Oct. 1950 to current year.

Water-quality records.--Chemical data: Dec. 1993 to Aug. 1998. Biochemical data: Dec. 1993 to Aug. 1998.

REVISED RECORDS.--WSP 1712: 1955. WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 736.71 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for daily discharges below 1.0 ft³/s, which are fair. No known regulation or diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.0	10	31	143	432	170	122	38	13	.45	281
2	3.7	3.1	8.4	28	124	389	157	116	39	20	.46	106
3	.60	163	7.9	28	116	382	150	110	60	16	.54	95
4	.19	353	9.1	27	110	545	146	107	44	11	.54	59
5	.04	270	9.6	27	101	259	140	284	33	8.3	.52	50
6	.00	2020	9.2	26	97	163	136	552	26	8.1	.43	57
7	.00	232	11	25	92	129	125	527	23	7.9	.33	40
8	.03	80	12	23	88	948	116	351	21	7.1	.32	17
9	.00	76	11	21	86	1100	112	239	24	7.9	.27	431
10	.00	61	11	41	84	364	102	187	17	7.3	.24	78
11	.00	35	9.8	94	82	288	137	159	15	6.7	.23	36
12	.00	23	8.4	79	86	1590	358	301	13	6.1	.20	19
13	.00	17	9.6	56	94	517	159	284	11	5.6	.21	11
14	.00	13	10	52	137	334	116	252	9.9	4.6	.41	8.1
15	.00	9.8	9.5	48	164	374	101	202	260	4.0	.30	6.2
16	.00	10	11	43	2920	272	93	153	254	3.1	.18	5.1
17	176	9.2	10	46	582	218	88	129	113	3.0	.13	4.4
18	231	13	10	108	305	244	92	112	62	2.7	.11	4.0
19	40	38	9.4	145	228	331	85	99	37	2.6	.08	3.7
20	14	42	9.1	93	187	257	82	92	25	2.4	.02	3.3
21	9.4	29	8.0	71	147	220	78	84	18	2.0	.00	4.3
22	9.2	21	7.5	62	117	197	73	76	15	1.9	.00	4.2
23	24	19	7.3	57	105	174	563	70	13	1.9	.00	3.7
24	15	20	7.0	54	405	170	507	64	11	1.7	.00	3.3
25	12	29	9.8	50	202	222	272	58	11	1.4	.00	2.8
26	7.0	29	37	48	83	184	206	56	14	1.0	.00	3.0
27	5.0	25	164	46	63	163	176	58	14	.88	.00	2.8
28	4.1	19	91	53	663	238	157	52	13	.83	1550	2.4
29	3.6	16	60	1100	---	274	142	50	11	.73	902	2.2
30	3.2	13	48	424	---	229	132	45	11	.63	91	2.0
31	2.7	---	37	201	---	194	---	42	---	.54	41	---
TOTAL	563.76	3691.1	672.6	3207	7611	11401	4971	5033	1255.9	160.91	2589.97	1345.5
MEAN	18.2	123	21.7	103	272	368	166	162	41.9	5.19	83.5	44.8
MAX	231	2020	164	1100	2920	1590	563	552	260	20	1550	431
MIN	.00	3.0	7.0	21	63	129	73	42	9.9	.54	.00	2.0
AC-FT	1120	7320	1330	6360	15100	22610	9860	9980	2490	319	5140	2670
CFSM	.04	.27	.05	.23	.60	.81	.36	.36	.09	.01	.18	.10
IN.	.05	.30	.05	.26	.62	.93	.41	.41	.10	.01	.21	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	76.5	38.7	82.5	75.1	157
MAX	1416	425	1894	767	2170
(WY)	1960	1966	1992	1961	1997
MIN	.000	.000	.000	.000	.000
(WY)	1952	1952	1952	1952	1952

SUMMARY STATISTICS

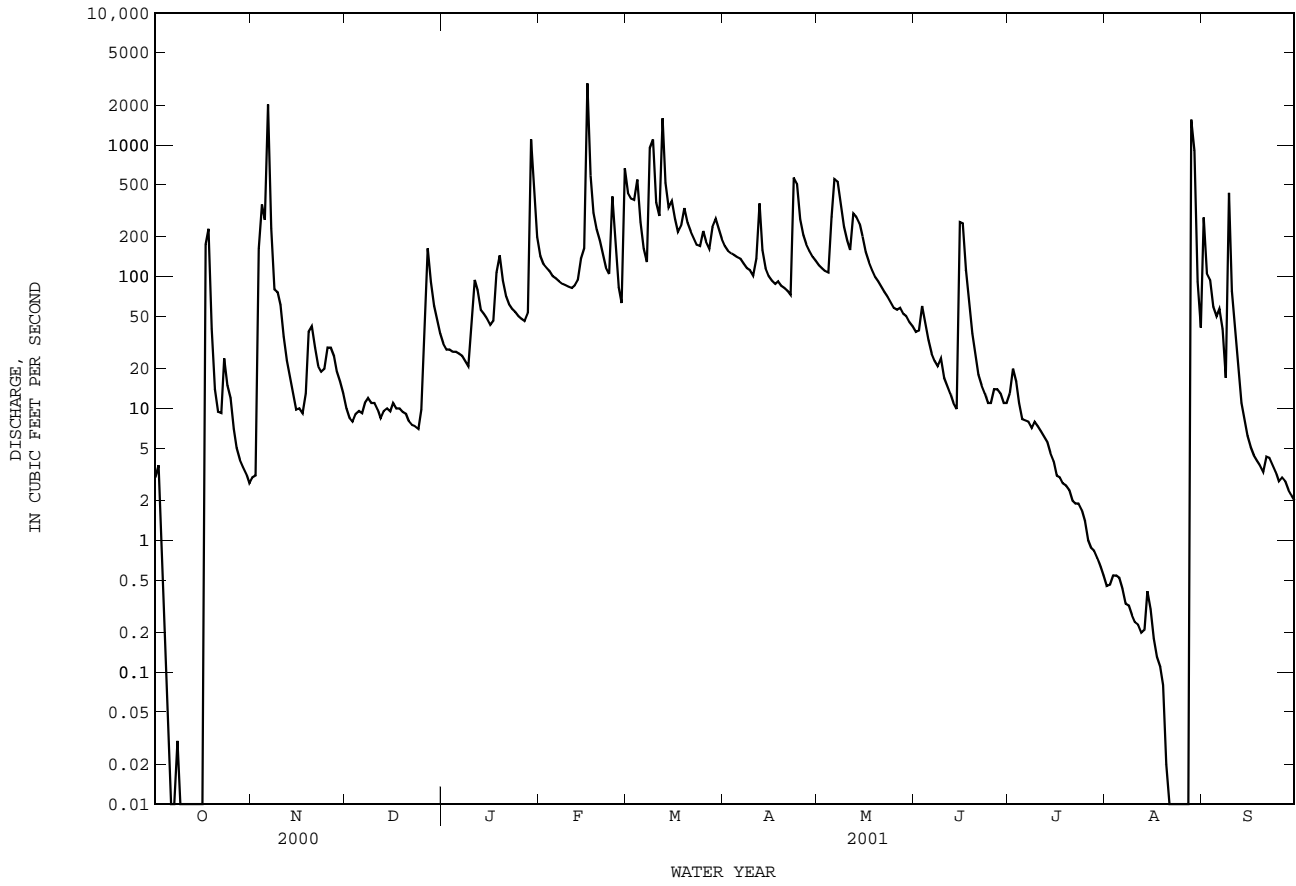
FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1951 - 2001

ANNUAL TOTAL	12657.43	42502.74	
ANNUAL MEAN	34.6	116	94.6
HIGHEST ANNUAL MEAN			482
LOWEST ANNUAL MEAN			1.18
HIGHEST DAILY MEAN	4350	Jun 3	35200
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 15	.00
MAXIMUM PEAK FLOW			6160
MAXIMUM PEAK STAGE			14.22
ANNUAL RUNOFF (AC-FT)	25110		84300
ANNUAL RUNOFF (CFSM)	.076		.26
ANNUAL RUNOFF (INCHES)	1.03		3.47
10 PERCENT EXCEEDS	36		273
50 PERCENT EXCEEDS	1.2		37
90 PERCENT EXCEEDS	.00		.46

08101000 Cowhouse Creek at Pidcoke, TX--Continued



BRAZOS RIVER BASIN

08102000 Belton Lake near Belton, TX

LOCATION.--Lat 31°06'22", long 97°28'28", Bell County, Hydrologic Unit 12070201, in intake structure at Belton Dam on Leon River, 1.6 mi upstream from bridge on State Highway 317, 3.5 mi north of Belton, 8.9 mi upstream from Nolan Creek, and 16.7 mi upstream from mouth.

DRAINAGE AREA.--3,560 mi².

PERIOD OF RECORD.--Mar. 1954 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers). Oct. 2000 to current year. Prior to Oct. 1970, published as "Belton Reservoir".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Records fair. Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Prior to Feb. 20, 1955, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--The lake is formed by a rolled earthfill dam 5,524 ft long, including a 1,300-foot uncontrolled broad-crested spillway in a saddle near left end of dam and a 418-foot-long dike. Deliberate impoundment began Mar. 8, 1954, and the dam was completed in Dec. 1954. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and conservation storage. The controlled outlet works consist of a 22.0-foot-diameter conduit that is controlled by three 7.0- by 22.0-foot broom-type gates. The service outlet consists of a 36- by 36-inch gated outlet that discharges into the flood-control conduit. There are many small diversions upstream for irrigation, municipal supply, and oil field operations. Conservation pool storage is 434,500 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	662.0
Design flood.....	656.9
Crest of spillway.....	631.0
Top of conservation pool.....	594.0
Service outlet (invert).....	540.0
Lowest gated outlet (invert).....	483.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by the Texas Water Development Board, was put into use beginning Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,168,000 acre-ft, Mar. 6, 1992, elevation, 634.36 ft; minimum since initial filling, 113,400 acre-ft, Dec. 16, 1956, elevation, 553.06 ft.

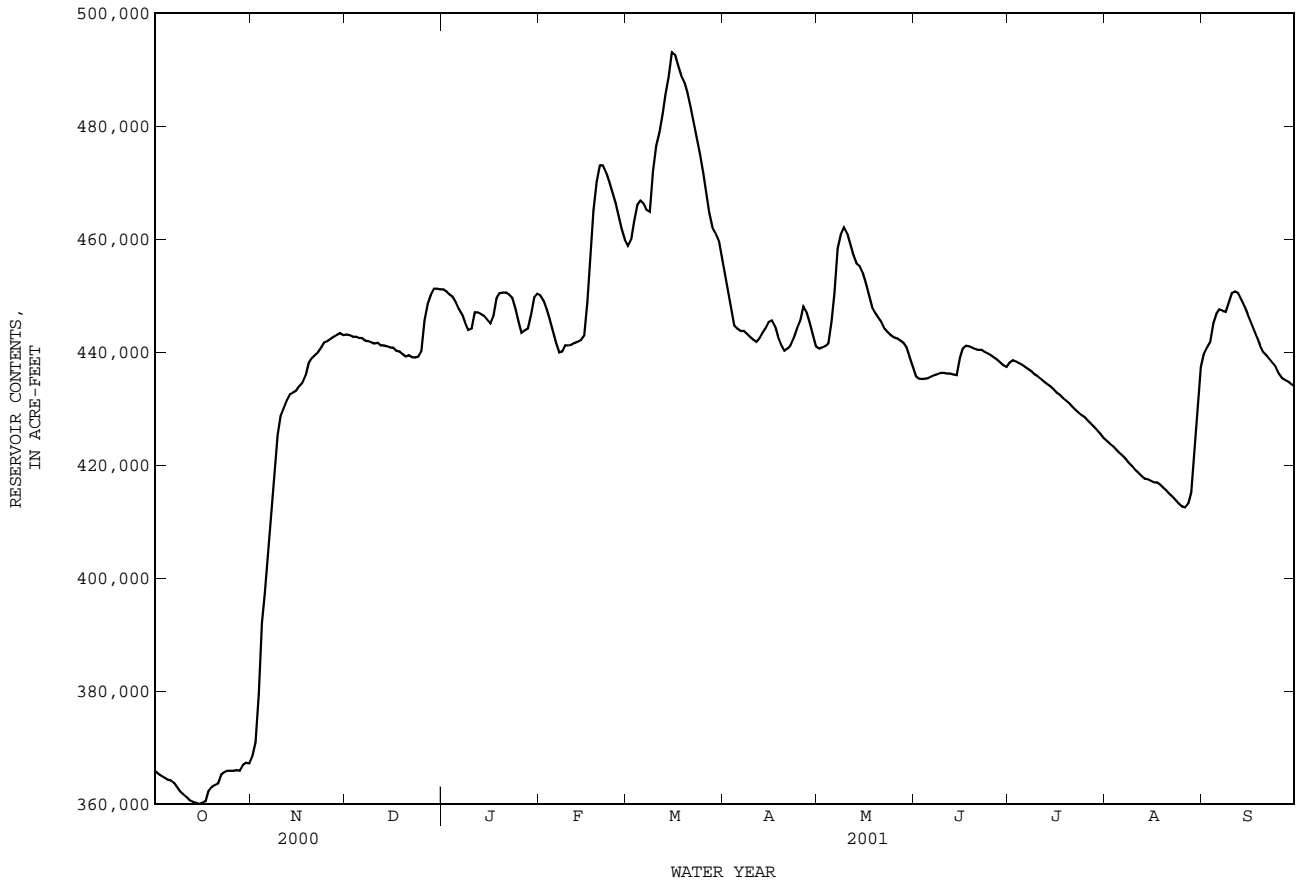
EXTREMES FOR CURRENT YEAR.--Maximum contents, 494,100 acre-ft, Mar. 15, elevation, 598.61 ft; minimum contents, 359,600 acre-ft, Oct. 15, 17, elevation, 587.56 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365800	368400	443100	451100	450000	458800	454100	440600	435700	438100	424300	439600
2	365300	370900	443000	450700	449100	459900	451000	440800	435300	438500	423800	440700
3	364900	379300	442700	450200	447500	463100	447800	441000	435200	438300	423300	441700
4	364600	392100	442700	449800	445800	466000	444700	441500	435300	438000	422700	445000
5	364300	397300	442500	448800	443700	466800	444100	445400	435400	437700	422200	446800
6	364200	405400	442500	447600	441600	466300	443700	450400	435700	437300	421700	447500
7	363700	412600	442000	446600	439900	465100	443700	458300	435900	436900	421100	447300
8	362900	418600	441900	445200	440100	464800	443200	460800	436100	436500	420400	447100
9	362200	425300	441700	443900	441200	472000	442700	462100	436300	436000	419800	448900
10	361700	428600	441500	444100	441200	476500	442200	461000	436300	435700	419200	450400
11	361200	430000	441600	447000	441300	478800	441800	459200	436200	435200	418700	450700
12	360600	431400	441200	447000	441600	482100	442400	457200	436200	434700	418100	450400
13	360400	432500	441200	446700	441800	485600	443300	455700	436000	434300	417600	449300
14	360200	432800	441000	446400	442100	488700	444200	455200	435900	433900	417500	448100
15	360000	433100	440800	445700	442900	493100	445300	454100	438900	433400	417200	446800
16	360200	434000	440800	445000	448900	492600	445600	452200	440600	432800	416900	445400
17	360500	434600	440200	446300	458100	490800	444500	450100	441100	432400	416900	444000
18	362300	435900	440100	449500	465100	489000	442700	447900	441000	431900	416500	442600
19	363000	438000	439600	450400	470100	487800	441300	446900	440700	431400	416000	441200
20	363300	438900	439200	450500	473100	485800	440200	446100	440500	430900	415500	440000
21	363600	439500	439400	450500	473000	483200	440600	445300	440400	430300	414900	439400
22	365200	440000	439100	450200	471900	480500	441200	444100	440400	429800	414400	438700
23	365600	440700	439000	449600	470200	477700	442500	443500	440000	429300	413800	438000
24	365900	441700	439200	447700	468300	475000	444100	443000	439700	428800	413200	437400
25	365900	441900	440100	445300	466400	471700	445500	442600	439400	428400	412700	436200
26	365900	442300	445600	443400	464000	468300	448100	442400	439000	427800	412500	435400
27	366000	442700	448500	443800	461800	464600	447200	442000	438600	427300	413200	435000
28	365900	443000	450100	444100	459900	462000	445300	441600	438100	426700	415100	434700
29	366900	443300	451200	446600	---	461000	443100	440900	437600	426100	421500	434300
30	367300	443000	451200	449700	---	459700	441000	439100	437300	425500	428800	433900
31	367200	---	451100	450300	---	457000	---	437400	---	424800	437300	---
MEAN	363800	425300	442700	447500	453600	474000	444200	448000	437800	432500	418900	442600
MAX	367300	443300	451200	451100	473100	493100	454100	462100	441100	438500	437300	450700
MIN	360000	368400	439000	443400	439900	457000	440200	437400	435200	424800	412500	433900
(+)	588.25	594.68	595.32	595.26	596.01	595.78	594.52	594.23	594.22	593.20	594.22	593.95
(@)	+900	+75800	+8100	-800	+9600	-2900	-16000	-3600	-100	-12500	+12500	-3400
CAL YR 2000	MAX 451200	MIN 360000	(@) +74800									
WTR YR 2001	MAX 493100	MIN 360000	(@) +67600									

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

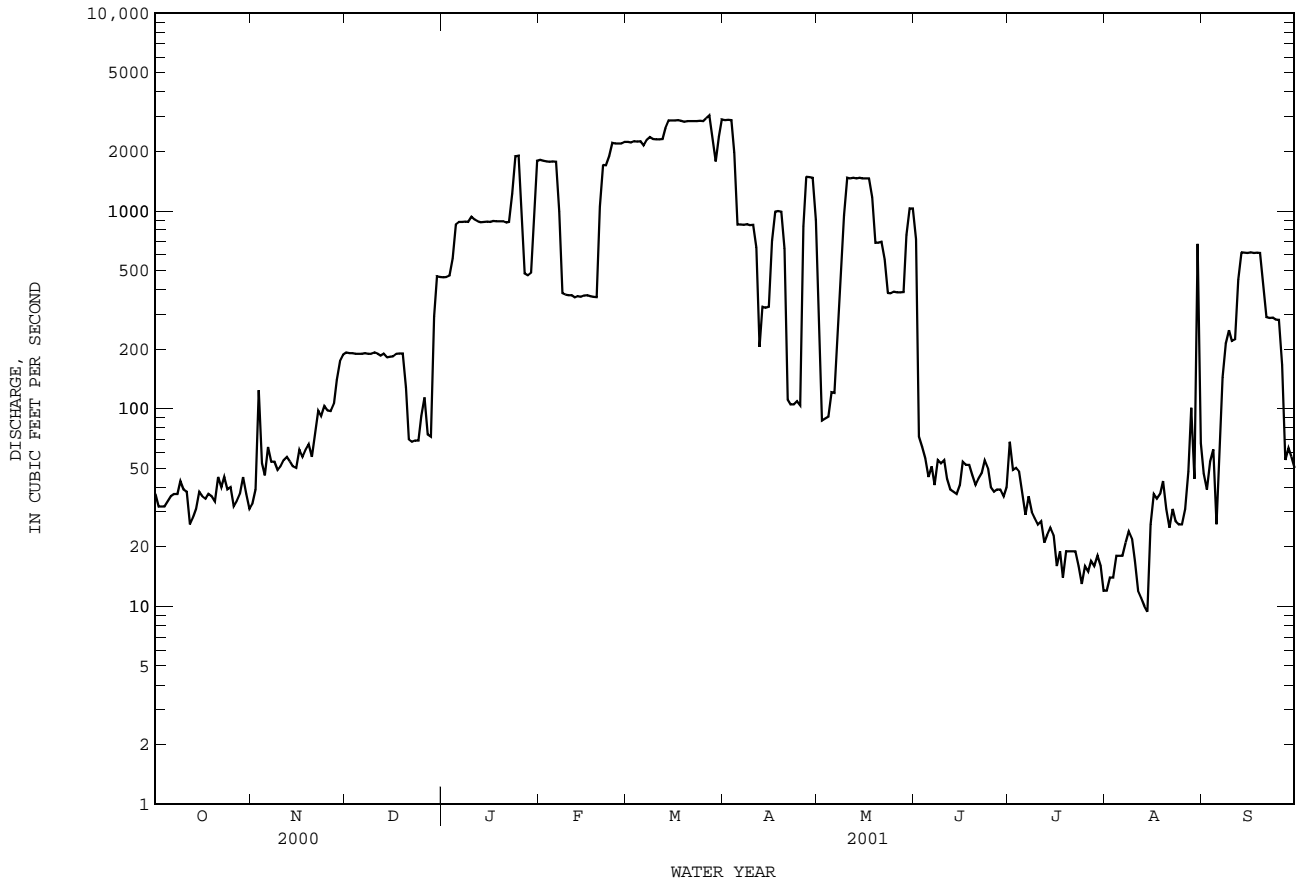
08102000 Belton Lake near Belton, TX--Continued



08102500 Leon River near Belton, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001z	
ANNUAL TOTAL	17475.9		214443.4		580	
ANNUAL MEAN	47.7		588		3067	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					4.71	
HIGHEST DAILY MEAN	467	Dec 30	3040	Mar 27	10200	Mar 6 1992
LOWEST DAILY MEAN	2.2	Jul 11	9.4	Aug 14	.00	Oct 1 1953
ANNUAL SEVEN-DAY MINIMUM	3.2	Jul 7	15	Jul 28	.00	Oct 1 1953
MAXIMUM PEAK FLOW			4980	Aug 30	10200	Mar 6 1992
MAXIMUM PEAK STAGE			7.63	Aug 30	9.74	Mar 6 1992
ANNUAL RUNOFF (AC-FT)	34660		425300		420400	
10 PERCENT EXCEEDS	81		2190		2110	
50 PERCENT EXCEEDS	32		183		43	
90 PERCENT EXCEEDS	24		26		5.0	

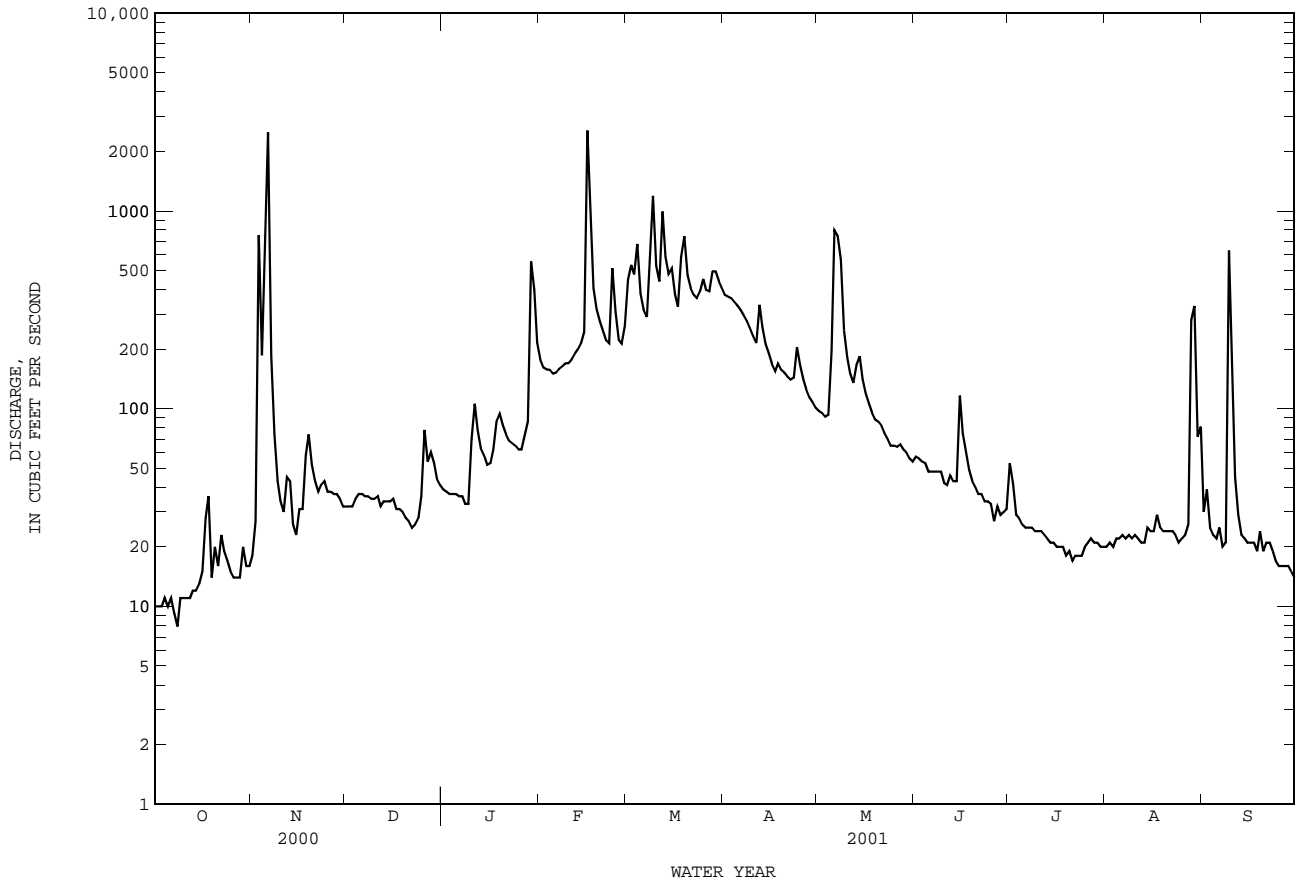
z Period of regulated streamflow.



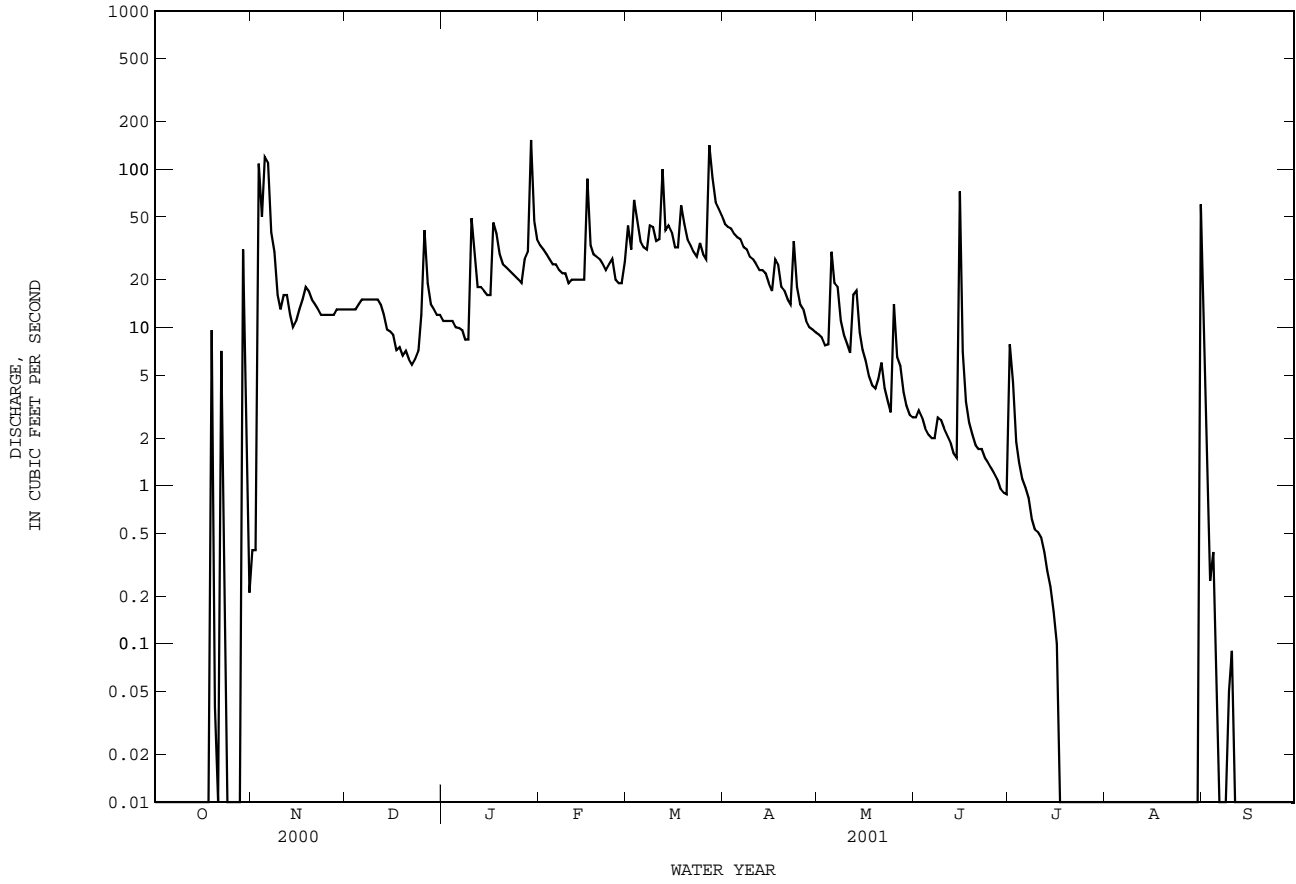
08103800 Lampasas River near Kempner, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001z	
ANNUAL TOTAL	16479.0		50796.1		161	
ANNUAL MEAN	45.0		139		949	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					10.7	
HIGHEST DAILY MEAN	3110	Apr 12	2540	Feb 16	42500	Dec 21 1991
LOWEST DAILY MEAN	7.4	Aug 22	7.9	Oct 8	2.0	Jul 10 1984
ANNUAL SEVEN-DAY MINIMUM	7.8	Aug 17	9.9	Oct 2	2.9	Jul 9 1984
MAXIMUM PEAK FLOW			6910	Nov 6	78000	Dec 20 1991
MAXIMUM PEAK STAGE			9.43	Nov 6	35.00	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	32690		100800		117000	
10 PERCENT EXCEEDS	40		391		303	
50 PERCENT EXCEEDS	19		43		32	
90 PERCENT EXCEEDS	9.1		18		12	

z Period of regulated streamflow.



08103900 South Fork Rocky Creek near Briggs, TX--Continued



BRAZOS RIVER BASIN

08104050 Stillhouse Hollow Lake near Belton, TX

LOCATION.--Lat 31°01'20", long 97°31'57", Bell County, Hydrologic Unit 12070203, in intake structure at Stillhouse Hollow Dam on Lampasas River, 5 mi southwest of Belton, and 16.0 mi upstream from mouth.

DRAINAGE AREA.--1,313 mi².

PERIOD OF RECORD.--Sept. 1966 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to current year. Prior to Oct. 1970, published as "Stillhouse Hollow Reservoir".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 15,624 ft long, including a 1,650-foot spillway and 5,894-foot dike. The lake was operated as a temporary detention basin from Sept. 2, 1966, to Feb. 19, 1968. Deliberate impoundment began Feb. 19, 1968. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for flood control and water conservation. The spillway is an uncontrolled broad-crested weir 1,650 ft long located near right end of dam. The flood-control outlet consists of a 12.0-foot-diameter conduit controlled by two 5.67- by 12.0-foot slide gates at an invert elevation of 515.0 ft. There are many small diversions upstream for irrigation, municipal supply and for oil field operations. Conservation pool storage is 226,063 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	698.0
Design flood.....	693.2
Crest of spillway.....	666.0
Top of conservation pool.....	622.0
Lowest gated outlet (invert).....	515.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by Texas Water Development Board, was put into use beginning Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 654,000 acre-ft, Mar. 4, 1992, elevation, 667.97 ft; minimum since conservation storage was reached on Apr. 12, 1969, 172,700 acre-ft, Aug. 23, 1996, elevation, 612.8 ft.

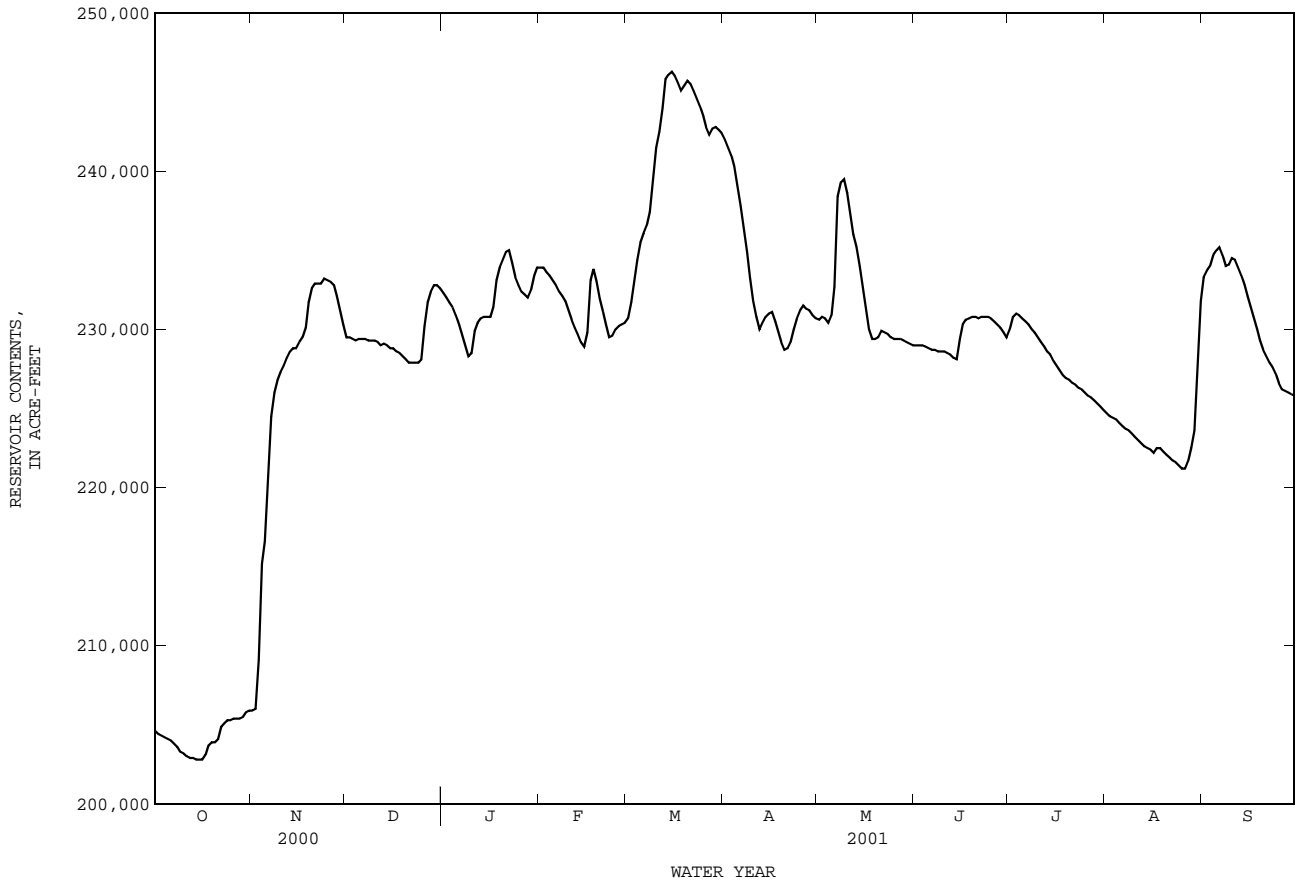
EXTREMES FOR CURRENT YEAR.--Maximum contents, 246,500 acre-ft, Mar. 15, elevation, 625.11 ft; minimum contents, 202,800 acre-ft, Oct. 14, 15, 16, elevation, 618.19 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204600	205900	229500	232300	233900	230700	242000	230600	229000	230000	224700	233300
2	204400	206000	229500	232000	233900	231700	241500	230800	229000	230800	224500	233700
3	204300	209100	229400	231700	233600	233000	241000	230700	229000	231000	224400	234000
4	204200	215200	229300	231400	233400	234400	240300	230400	228900	230900	224300	234700
5	204100	216600	229400	230900	233100	235500	239100	230900	228800	230700	224100	235000
6	204000	220500	229400	230300	232800	236100	237800	232700	228700	230500	223900	235200
7	203800	224500	229400	229600	232400	236600	236300	238400	228700	230300	223700	234700
8	203600	226000	229300	229000	232100	237400	234900	239300	228600	230000	223600	234000
9	203300	226800	229300	228300	231800	239600	233300	239500	228600	229800	223400	234100
10	203200	227300	229300	228500	231200	241500	231800	238600	228600	229500	223200	234500
11	203000	227700	229200	229900	230600	242500	230800	237300	228500	229200	223000	234400
12	202900	228200	229000	230400	230100	244000	230000	236000	228400	228900	222800	233900
13	202900	228600	229100	230700	229700	245800	230400	235200	228200	228600	222600	233400
14	202800	228800	229000	230800	229200	246100	230800	234000	228100	228400	222500	232800
15	202800	228800	228800	230800	228900	246300	231000	232700	229400	228000	222400	232100
16	202800	229200	228800	230800	229800	246000	231100	231300	230300	227700	222200	231400
17	203100	229500	228600	231400	233100	245600	230500	230000	230600	227400	222500	230700
18	203700	230100	228500	233100	233800	245100	229900	229400	230700	227100	222500	230000
19	203900	231700	228300	233900	233000	245400	229200	229400	230800	226900	222300	229300
20	203900	232600	228100	234400	231900	245700	228700	229500	230800	226800	222100	228700
21	204100	232900	227900	234900	231100	245500	228800	229900	230700	226600	221900	228300
22	204900	232900	227900	235000	230300	245100	229200	229800	230800	226500	221700	227900
23	205100	232900	227900	234200	229500	244600	230000	229700	230800	226300	221600	227600
24	205300	233200	227900	233300	229600	244100	230700	229500	230800	226200	221400	227200
25	205300	233100	228100	232800	230000	243500	231200	229400	230700	226000	221200	226600
26	205400	233000	230200	232400	230200	242800	231500	229400	230500	225800	221200	226200
27	205400	232800	231700	232200	230300	242300	231300	229400	230300	225700	221700	226100
28	205400	232100	232400	232000	230400	242700	231200	229300	230100	225500	222500	226000
29	205500	231200	232800	232500	---	242800	230900	229200	229800	225300	223600	225900
30	205800	230300	232800	233400	---	242600	230700	229100	229500	225100	227500	225800
31	205900	---	232600	233900	---	242400	---	229000	---	224900	231800	---
MEAN	204200	226600	229500	231800	231400	241500	232900	231900	229600	227900	223300	230900
MAX	205900	233200	232800	235000	233900	246300	242000	239500	230800	231000	231800	235200
MIN	202800	205900	227900	228300	228900	230700	228700	229000	228100	224900	221200	225800
(+)	618.72	622.66	623.01	623.21	622.68	624.50	622.72	622.46	622.54	621.82	622.84	621.96
(@)	+1200	+24400	+2300	+1300	-3500	+12000	-11700	-1700	+500	-4600	+6900	-6000
CAL YR 2000	MAX 233200	MIN 202800	(@) +20000									
WTR YR 2001	MAX 246300	MIN 202800	(@) +21100									

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

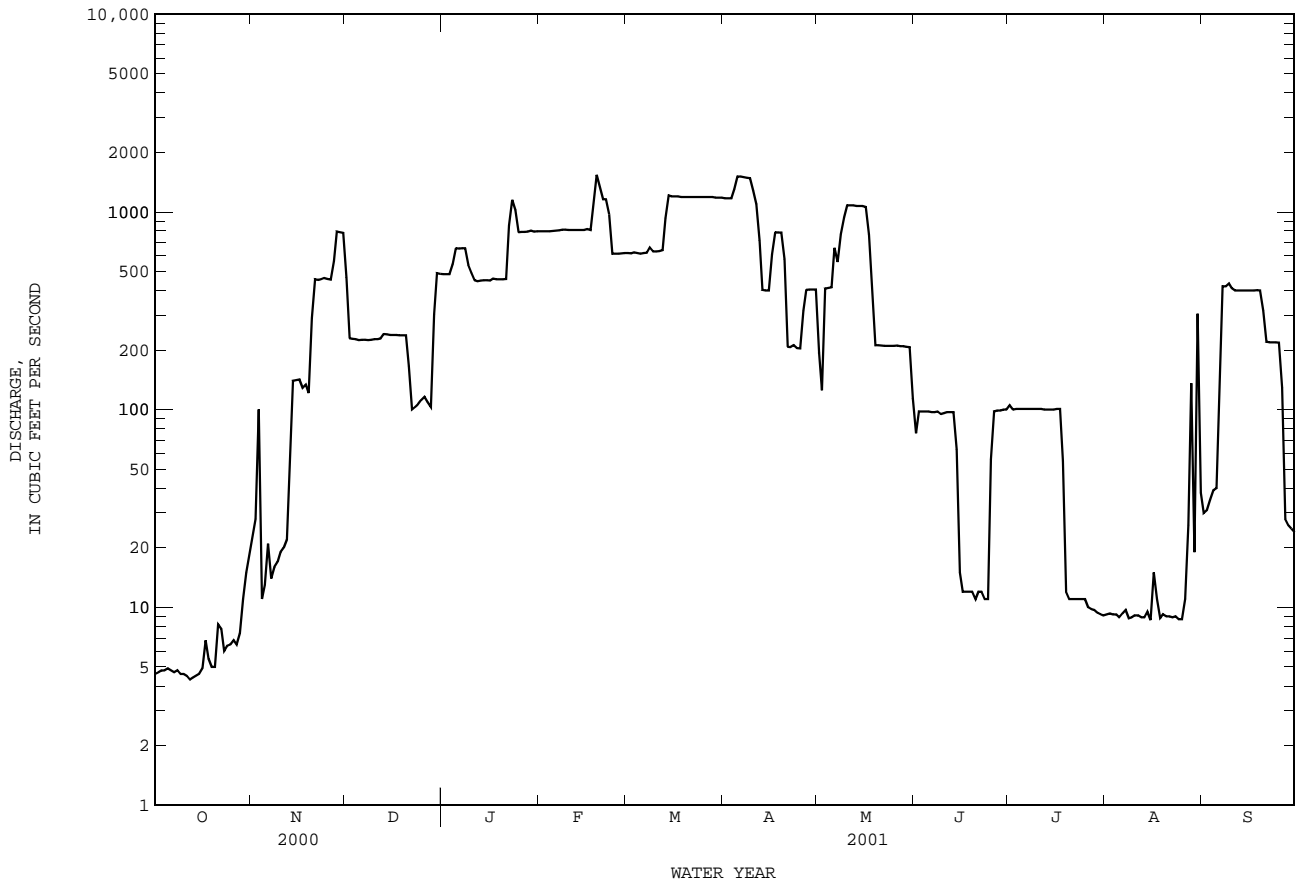
08104050 Stillhouse Hollow Lake near Belton, TX--Continued



08104100 Lampasas River near Belton, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001hz	
ANNUAL TOTAL	21512.93		138380.5		215	
ANNUAL MEAN	58.8		379		713	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					5.23	
HIGHEST DAILY MEAN	1110	Feb 26	1540	Feb 19	5370	Jul 1 1987
LOWEST DAILY MEAN	.71	Mar 4	4.3	Oct 12	.00	Aug 9 1967
ANNUAL SEVEN-DAY MINIMUM	.80	Mar 1	4.5	Oct 9	.00	Aug 9 1967
MAXIMUM PEAK FLOW			2880		y6240	
MAXIMUM PEAK STAGE			13.36		y19.23	
ANNUAL RUNOFF (AC-FT)	42670		274500		155900	
10 PERCENT EXCEEDS	225		1080		782	
50 PERCENT EXCEEDS	4.5		219		12	
90 PERCENT EXCEEDS	1.3		8.9		4.3	

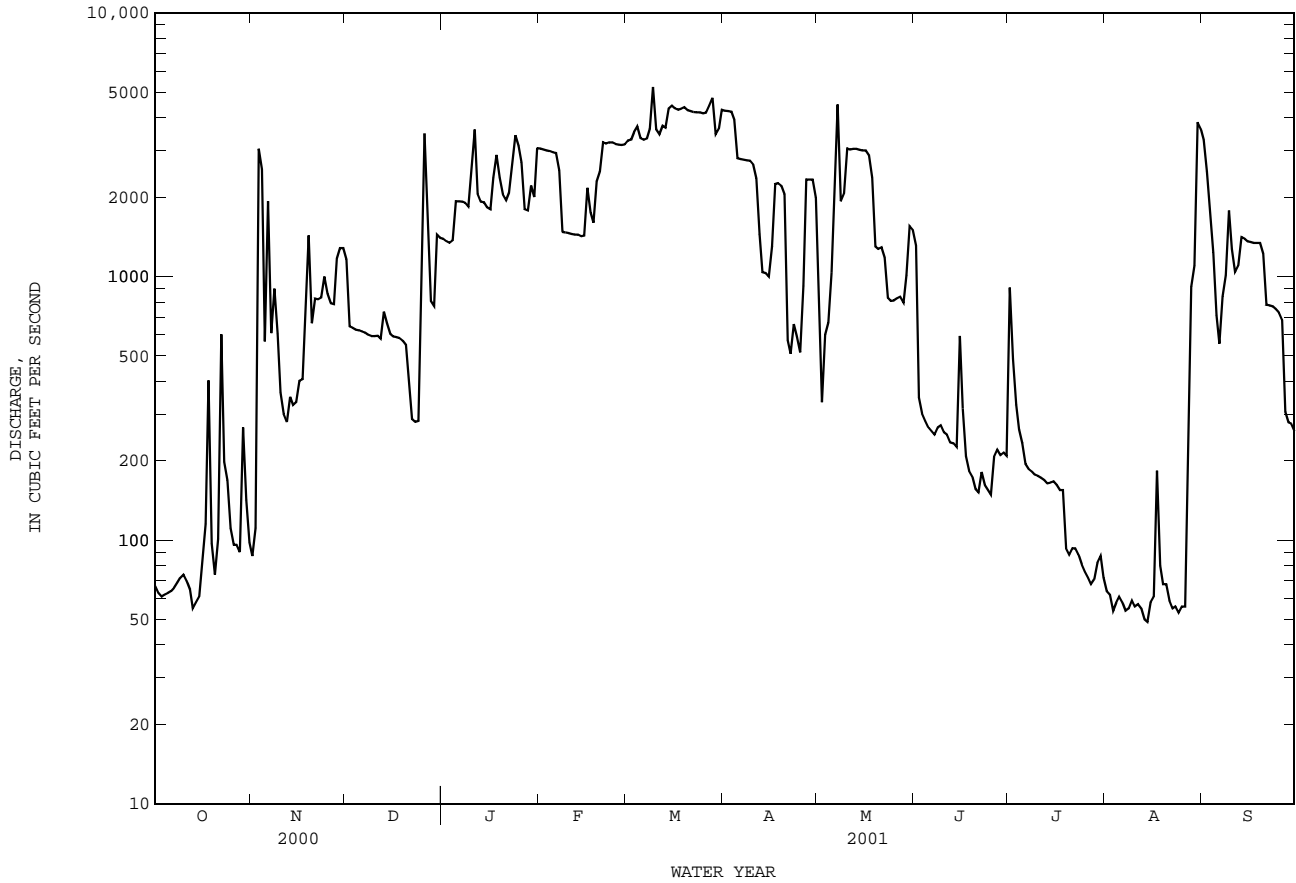
e Estimated
 h See PERIOD OF RECORD paragraph.
 z Period of regulated streamflow.
 y Also occurred July 1, 1999.



08104500 Little River near Little River, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001z	
ANNUAL TOTAL	88992		487790		1031	
ANNUAL MEAN	243		1336		5054	
HIGHEST ANNUAL MEAN					118	
LOWEST ANNUAL MEAN					1992	
HIGHEST DAILY MEAN	3480	Dec 26	5230	Mar 9	62000	May 17 1965
LOWEST DAILY MEAN	33	Jul 13	49	Aug 14	8.2	Aug 6 1963
ANNUAL SEVEN-DAY MINIMUM	35	Jul 8	54	Aug 8	9.5	Aug 3 1963
MAXIMUM PEAK FLOW			11700	Aug 30	79600	May 17 1965
MAXIMUM PEAK STAGE			27.26	Aug 30	42.85	May 17 1965
ANNUAL RUNOFF (AC-FT)	176500		967500		746700	
10 PERCENT EXCEEDS	623		3380		3240	
50 PERCENT EXCEEDS	90		820		259	
90 PERCENT EXCEEDS	56		69		64	

e Estimated
z Period of regulated streamflow.



BRAZOS RIVER BASIN

08104650 Lake Georgetown near Georgetown, TX

LOCATION.--Lat 30°40'03", long 97°43'38", Williamson County, Hydrologic Unit 12070205, at North San Gabriel Dam, on North Fork San Gabriel River, 2.5 mi upstream from Middle Fork San Gabriel River, 3.7 mi northwest of Georgetown, and 4.4 mi upstream from confluence with South Fork San Gabriel River.

DRAINAGE AREA.--247 mi².

PERIOD OF RECORD.--Mar. 1980 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to current year. Water-quality records.--Chemical data: Oct. 1980 to Aug. 1989. Biochemical data: Oct. 1980 to Aug. 1989.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Prior to May 13, 1980, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rolled earthfill dam, 6,700 ft long, including the spillway. The lake was built for water conservation and flood control. The dam is owned by the U.S. Army Corps of Engineers. Deliberate impoundment began on Mar. 3, 1980. The spillway is an ungated broad-crested weir 1,000 ft long, located near right end of dam. The spillway for normal flood releases is a gated, 11-foot-diameter conduit, controlled by two 5- by 11-foot slide gates, located near the center of dam. The invert for the floodgate is 720.0 ft. A low-flow outlet, consisting of four 3- by 4-foot gates is located near the center of dam. The inverts of these gates are 735.0, 749.0, 763.0, and 777.0 ft. Conservation pool storage is 37,010 acre-ft. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam.....	861.0
Design flood.....	856.2
Crest of spillway.....	834.0
Top of conservation pool.....	791.0
Lowest gated outlet (invert of 11-foot conduit).....	720.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by the Texas Water Development Board, was put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 136,900 acre-ft, Mar. 4, 1992, elevation, 835.86 ft; minimum contents after initial filling, 13,990 acre-ft, Oct. 15, Nov. 2, 2000, elevation, 767.71 ft.

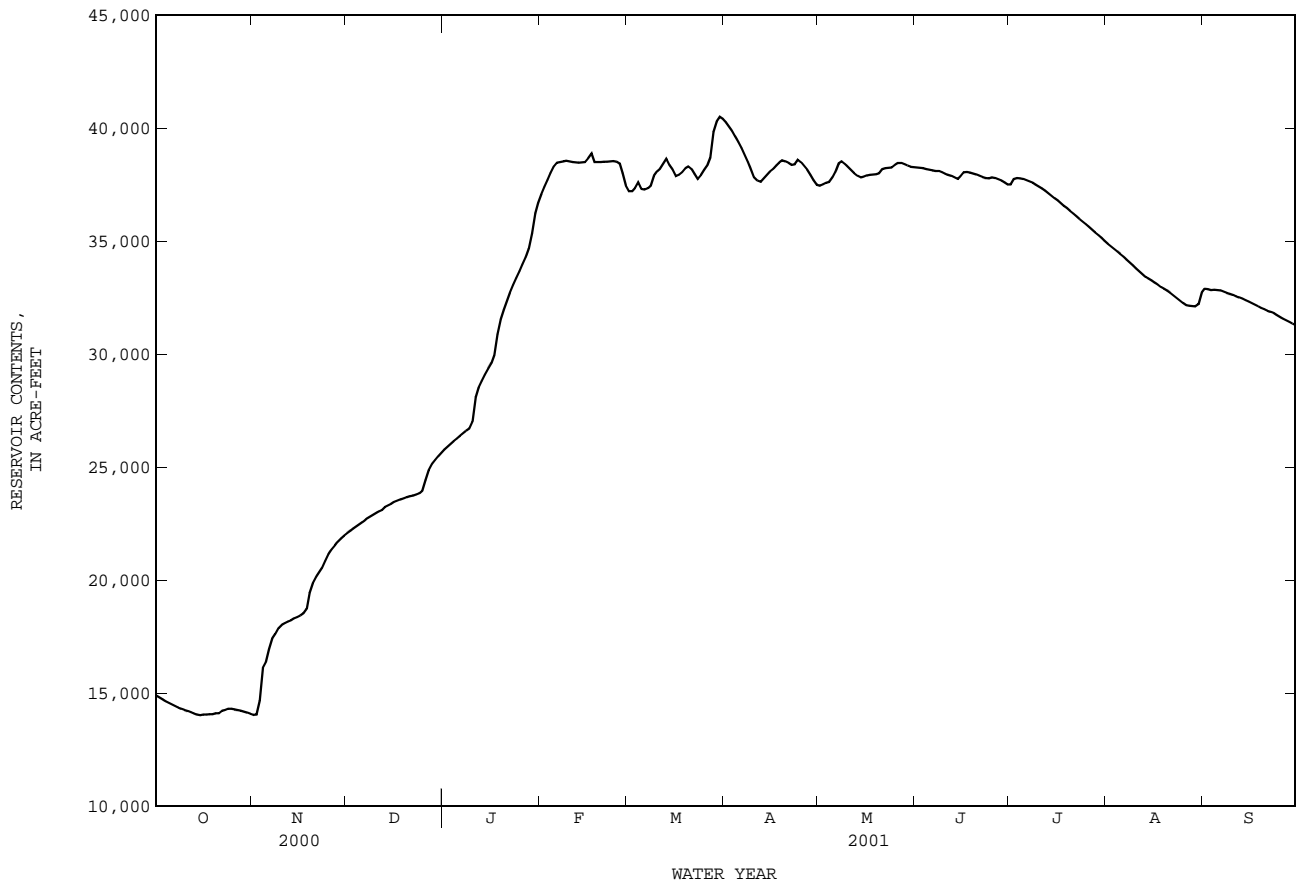
EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,530 acre-ft, Mar. 30, elevation, 793.55 ft; minimum contents, 13,990 acre-ft, Oct. 15, Nov. 2, elevation, 767.71 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14880	14030	22080	25770	37060	37200	40250	37440	38260	37500	34880	32880
2	14790	14040	22180	25900	37400	37200	40060	37500	38240	37750	34770	32870
3	14710	14660	22270	26020	37710	37350	39850	37570	38220	37790	34660	32830
4	14620	16110	22380	26140	38020	37600	39630	37620	38190	37770	34540	32840
5	14550	16350	22480	26260	38290	37300	39390	37810	38160	37740	34430	32830
6	14480	16930	22580	26380	38460	37280	39120	38060	38130	37690	34310	32810
7	14410	17410	22680	26500	38500	37330	38810	38430	38100	37630	34180	32760
8	14350	17620	22770	26600	38520	37440	38490	38520	38100	37570	34050	32700
9	14300	17870	22860	26700	38550	37880	38170	38410	38040	37490	33920	32660
10	14240	18000	22940	27010	38530	38090	37820	38270	37970	37410	33790	32610
11	14200	18080	23020	28090	38500	38210	37680	38140	37930	37320	33660	32550
12	14140	18150	23080	28510	38480	38440	37610	38000	37880	37220	33540	32500
13	14090	18210	23220	28800	38470	38640	37760	37890	37820	37120	33410	32440
14	14050	18290	23290	29090	38480	38350	37920	37810	37750	37010	33340	32380
15	14020	18350	23370	29340	38490	38150	38070	37850	37890	36900	33260	32320
16	14040	18430	23450	29580	38670	37870	38190	37900	38040	36790	33160	32250
17	14040	18520	23510	29940	38860	37930	38340	37930	38060	36670	33070	32180
18	14060	18720	23560	30880	38500	38040	38470	37940	38030	36560	32960	32110
19	14060	19430	23610	31520	38490	38210	38560	37960	37980	36450	32880	32040
20	14100	19860	23660	31970	38500	38300	38520	38000	37940	36330	32800	31980
21	14110	20120	23700	32360	38510	38190	38450	38180	37890	36220	32700	31910
22	14210	20330	23740	32720	38510	37970	38370	38220	37830	36100	32590	31860
23	14250	20540	23780	33050	38520	37750	38390	38240	37780	35980	32490	31810
24	14300	20840	23830	33370	38540	37910	38590	38260	37770	35860	32370	31730
25	14300	21140	23950	33670	38510	38140	38480	38370	37810	35740	32260	31640
26	14280	21350	24420	33960	38420	38330	38310	38450	37780	35620	32160	31560
27	14250	21530	24860	34280	38000	38690	38160	38450	37730	35500	32130	31490
28	14220	21690	25120	34670	37460	39830	37930	38400	37670	35380	32120	31410
29	14180	21840	25310	35330	---	40280	37690	38340	37590	35260	32100	31340
30	14130	21960	25470	36210	---	40490	37490	38280	37510	35140	32210	31270
31	14080	---	25620	36680	---	40410	---	38270	---	35010	32710	---
MEAN	14270	18680	23510	30240	38320	38220	38490	38080	37940	36660	33270	32220
MAX	14880	21960	25620	36680	38860	40490	40250	38520	38260	37790	34880	32880
MIN	14020	14030	22080	25770	37060	37200	37490	37440	37510	35010	32100	31270
(+)	767.84	777.49	781.21	790.72	791.31	793.46	791.33	791.91	791.35	789.42	787.55	786.34
(@)	-840	+7880	+3660	+11060	+780	+2950	-2920	+780	-760	-2500	-2300	-1440
CAL YR 2000	MAX 26110	MIN 14020	(@) -530									
WTR YR 2001	MAX 40490	MIN 14020	(@) +16350									

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

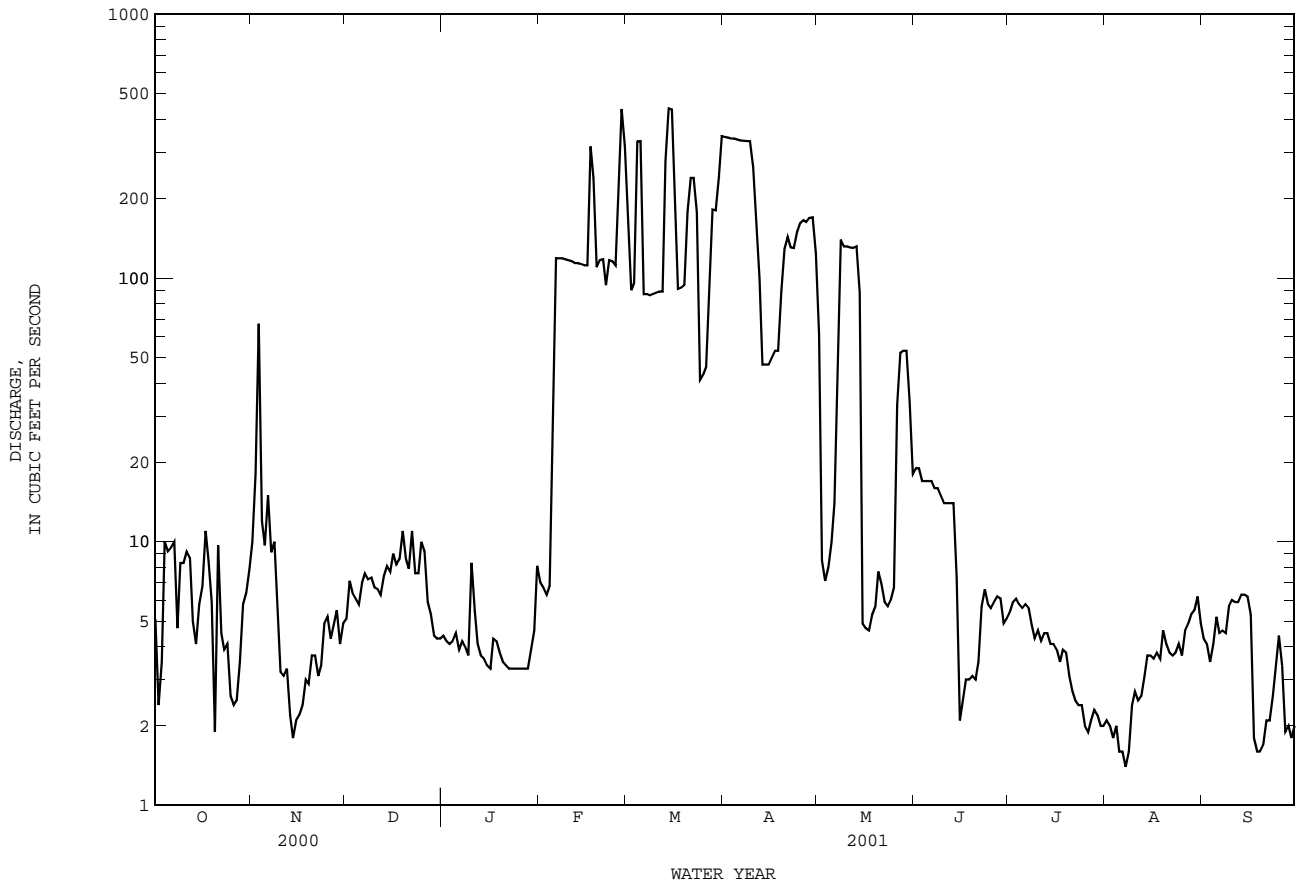
08104650 Lake Georgetown near Georgetown, TX--Continued



08104700 North Fork San Gabriel River near Georgetown, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1980 - 2001z	
ANNUAL TOTAL	1444.79	17300.3		
ANNUAL MEAN	3.95	47.4	71.6	
HIGHEST ANNUAL MEAN			358	1992
LOWEST ANNUAL MEAN			4.00	1980
HIGHEST DAILY MEAN	67 Nov 3	440 Mar 14	4500	Jun 9 1981
LOWEST DAILY MEAN	.04 Mar 14	1.4 Aug 7	.00	Sep 27 1981
ANNUAL SEVEN-DAY MINIMUM	.12 Mar 10	1.7 Aug 2	.01	Oct 2 1981
MAXIMUM PEAK FLOW		509 Mar 4	6070	Mar 4 1992
MAXIMUM PEAK STAGE		7.19 Feb 17	13.05	Mar 4 1992
INSTANTANEOUS LOW FLOW			.00	Sep 27 1981
ANNUAL RUNOFF (AC-FT)	2870	34320	51880	
10 PERCENT EXCEEDS	8.6	154	170	
50 PERCENT EXCEEDS	2.6	6.0	6.5	
90 PERCENT EXCEEDS	.67	2.4	2.0	

e Estimated
 z Period of regulated streamflow.



BRAZOS RIVER BASIN

08104900 South Fork San Gabriel River at Georgetown, TX

LOCATION.--Lat 30°37'32", long 97°41'27", Williamson County, Hydrologic Unit 12070205, on right bank at downstream side of downstream bridge of two bridges on Interstate Highway 35, 1.1 mi southwest of the courthouse at Georgetown, and 2.4 mi upstream from mouth.

DRAINAGE AREA.--133 mi².

PERIOD OF RECORD.--Oct. 1947 to Sept. 1948, Sept. 1962 to Oct. 1967 (occasional low-flow measurements). Dec. 1967 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 687.72 ft above sea level. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1887, about 41 ft Apr. 24, 1957, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	1.0	38	57	88	67	157	48	42	105	.55	28
2	.12	76	36	52	84	69	148	45	45	105	.48	8.9
3	.11	364	36	49	83	94	143	43	41	70	.44	6.5
4	.11	147	36	50	82	136	138	40	37	40	.42	9.3
5	.12	63	34	50	80	93	132	66	33	19	.43	15
6	.15	181	35	48	78	82	125	75	32	12	.70	6.6
7	.18	88	33	48	77	81	119	424	30	8.5	.66	4.5
8	.23	77	32	46	75	106	115	113	32	7.1	.49	3.7
9	.24	68	31	41	75	235	110	78	31	5.9	.44	3.6
10	.26	54	32	206	71	114	105	70	30	4.6	.41	3.5
11	.26	44	32	272	70	105	101	64	26	4.9	.40	2.8
12	.26	41	29	111	70	122	99	61	22	4.3	.37	2.9
13	.28	35	40	94	69	118	103	63	19	3.3	.38	2.9
14	.27	31	35	92	70	114	97	78	16	2.5	.42	2.7
15	3.7	28	33	83	69	171	92	60	33	2.5	.55	2.5
16	.98	29	35	80	108	117	83	53	32	2.2	.55	2.5
17	5.0	27	34	119	104	108	95	46	23	2.0	.57	2.5
18	.68	44	31	230	78	111	106	42	18	2.0	.57	2.1
19	1.0	109	28	158	74	112	79	40	13	1.9	.85	2.1
20	.81	71	26	122	71	107	72	52	12	1.9	.86	2.1
21	54	60	27	112	73	104	67	246	10	1.7	1.1	1.8
22	9.1	55	25	104	70	102	62	79	9.1	1.8	1.0	1.9
23	5.1	57	27	99	71	99	88	60	9.5	1.7	.94	2.8
24	4.1	58	28	98	70	102	110	54	38	1.2	.89	4.7
25	1.7	52	49	94	68	104	69	73	32	.99	.85	2.9
26	1.3	48	141	93	65	97	60	69	14	.74	1.2	2.2
27	1.2	44	98	96	64	371	57	77	11	.83	2.0	2.0
28	1.0	42	76	106	63	544	53	55	9.1	.99	1.7	1.8
29	1.2	40	63	147	---	244	51	48	6.1	.93	3.1	1.6
30	1.1	37	58	135	---	196	50	46	4.7	.96	140	1.6
31	1.1	---	58	99	---	176	---	42	---	.70	95	---
TOTAL	95.79	2071.0	1316	3191	2120	4401	2886	2410	710.5	417.14	258.32	138.0
MEAN	3.09	69.0	42.5	103	75.7	142	96.2	77.7	23.7	13.5	8.33	4.60
MAX	54	364	141	272	108	544	157	424	45	105	140	28
MIN	.11	1.0	.25	.41	.63	.67	.50	.40	4.7	.70	.37	1.6
AC-FT	190	4110	2610	6330	4210	8730	5720	4780	1410	827	512	274

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001h, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
MEAN	37.7	23.6	46.7	51.5	75.8	66.9	72.6	96.5	114	24.6	12.8	20.9			
MAX	221	124	489	441	711	367	445	329	851	85.8	131	306			
(WY)	1974	1975	1992	1968	1992	1992	1997	1997	1981	1976	1974	1981			
MIN	.069	.16	.22	.31	.81	1.10	.89	.24	.37	.13	.036	.022			
(WY)	1979	1989	1989	1996	1990	1996	1996	1984	1971	1978	1980	1984			

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

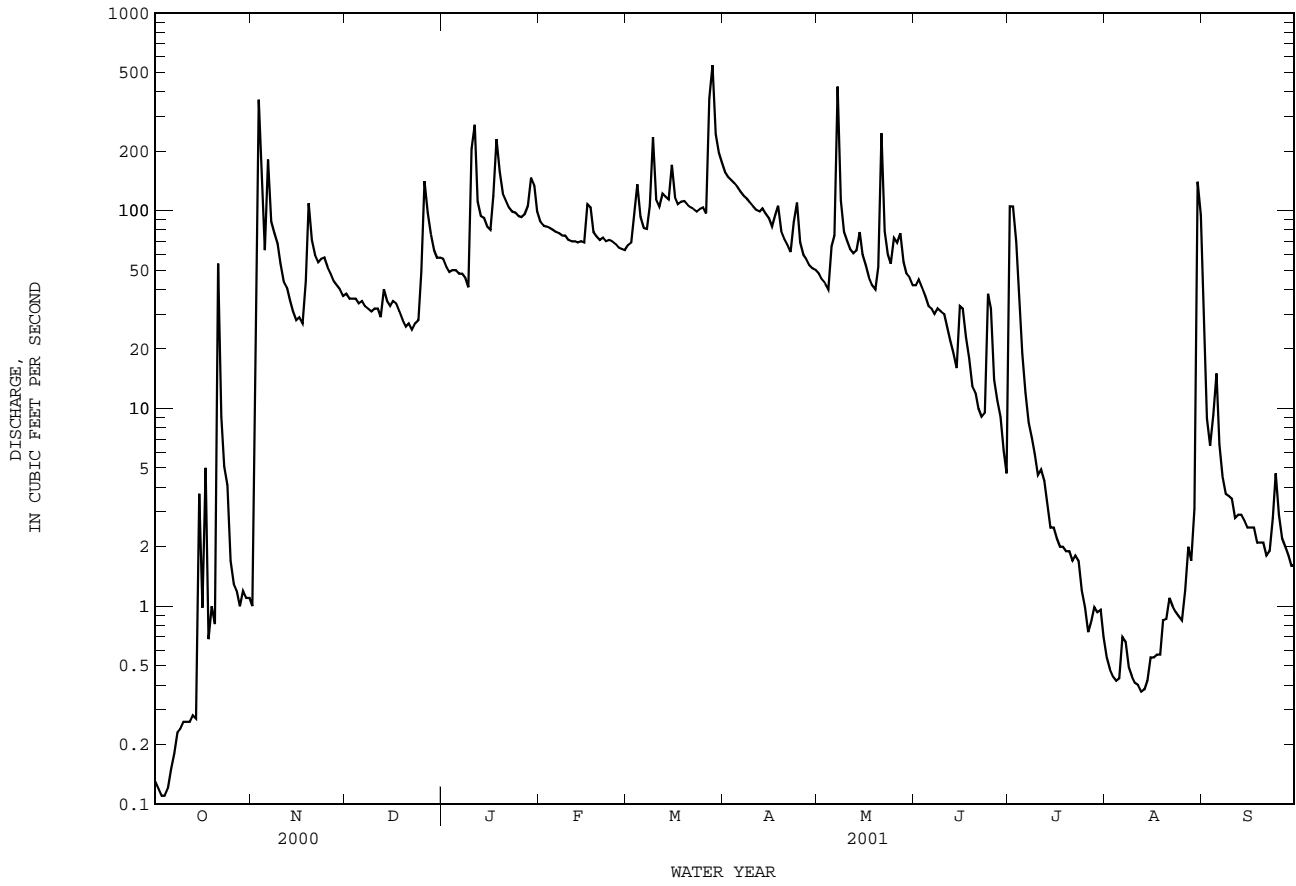
FOR 2001 WATER YEAR

WATER YEARS 1968 - 2001h

ANNUAL TOTAL	4166.23	20014.75		
ANNUAL MEAN	11.4	54.8	51.3	
HIGHEST ANNUAL MEAN			203	1992
LOWEST ANNUAL MEAN			2.00	2000
HIGHEST DAILY MEAN	364	Nov 3	544	Mar 28
LOWEST DAILY MEAN	.00	Aug 20	.11	Oct 3
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 26	.13	Oct 1
MAXIMUM PEAK FLOW			1520	May 7
MAXIMUM PEAK STAGE			6.88	May 7
ANNUAL RUNOFF (AC-FT)	8260		39700	
10 PERCENT EXCEEDS	36		113	
50 PERCENT EXCEEDS	1.5		42	
90 PERCENT EXCEEDS	.09		.82	
				.31

h See PERIOD OF RECORD paragraph

08104900 South Fork San Gabriel River at Georgetown, TX--Continued



BRAZOS RIVER BASIN

08105100 Berry Creek near Georgetown, TX

LOCATION (REVISED).--Lat 30°41'28", long 97°39'21", Williamson County, Hydrologic Unit 12070205, on right bank at upstream side of upstream service road on Interstate Highway 35, 2.9 mi north of the county courthouse at Georgetown, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--83.1 mi².

PERIOD OF RECORD.--July 1967 to current year.
Water-quality records.--Sediment data: Oct. 1976 to Sept. 1981

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 659.97 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. No flow a times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1921 occurred Sept. 1921, 25.0 ft, from information by Texas Department of Transportation and local residents (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	27	46	51	57	77	30	16	10	.30	1.4
2	.00	15	26	43	49	62	72	30	15	32	.33	1.7
3	.00	381	26	41	47	137	71	30	16	11	.13	2.2
4	.00	103	26	40	47	149	69	29	15	8.3	.26	2.3
5	.00	22	26	37	44	67	68	31	13	6.5	.49	2.6
6	.00	253	25	37	44	54	67	40	11	5.7	.58	1.9
7	.00	44	25	36	43	53	66	36	11	5.6	.50	1.6
8	.00	27	25	33	42	139	66	34	11	5.5	.13	1.4
9	.00	32	25	32	41	242	66	31	8.8	5.3	.00	2.1
10	.00	21	25	487	40	80	66	29	8.5	4.8	.00	1.7
11	.00	19	25	295	39	70	65	30	9.4	4.6	.00	1.9
12	.00	19	22	86	41	96	63	29	8.9	4.0	.00	1.9
13	.00	18	28	75	42	83	73	29	8.8	3.5	.00	1.8
14	.00	18	24	83	44	70	61	30	8.2	3.2	.07	1.7
15	.00	17	24	62	45	145	57	31	11	2.9	.12	1.8
16	.00	17	23	58	129	75	51	24	9.6	2.8	.01	2.0
17	.53	16	23	187	82	63	53	24	12	2.3	.03	2.0
18	.00	96	23	251	54	65	70	22	12	2.2	.00	1.7
19	.00	210	22	145	52	72	57	22	9.3	1.7	.00	1.4
20	.00	54	23	85	51	68	51	23	8.9	1.5	.00	1.2
21	3.5	36	22	75	49	63	47	21	7.9	1.3	.00	1.3
22	.88	31	22	69	48	61	45	18	8.1	1.3	.00	1.3
23	.00	34	21	65	49	59	105	18	8.3	1.5	.00	1.3
24	.00	50	20	61	55	63	167	18	8.1	1.3	.00	1.1
25	.00	42	52	56	53	68	45	17	7.6	1.6	.00	1.1
26	.00	32	584	54	50	64	36	18	7.1	1.6	.00	1.0
27	.00	29	173	61	52	397	33	17	7.6	1.2	.86	.88
28	.00	28	82	98	52	460	31	17	7.2	.65	.05	.75
29	.00	27	64	105	---	135	31	17	7.0	.42	.00	.51
30	.00	27	54	81	---	97	30	17	6.9	.49	2.2	.30
31	.00	---	48	57	---	87	---	17	---	.29	1.2	---
TOTAL	4.91	1718.00	1635	2941	1435	3401	1859	779	299.2	135.05	7.26	45.84
MEAN	.16	57.3	52.7	94.9	51.2	110	62.0	25.1	9.97	4.36	.23	1.53
MAX	3.5	381	584	487	129	460	167	40	16	32	2.2	2.6
MIN	.00	.00	.20	.32	.39	.53	.30	.17	6.9	.29	.00	.30
AC-FT	9.7	3410	3240	5830	2850	6750	3690	1550	593	268	14	91

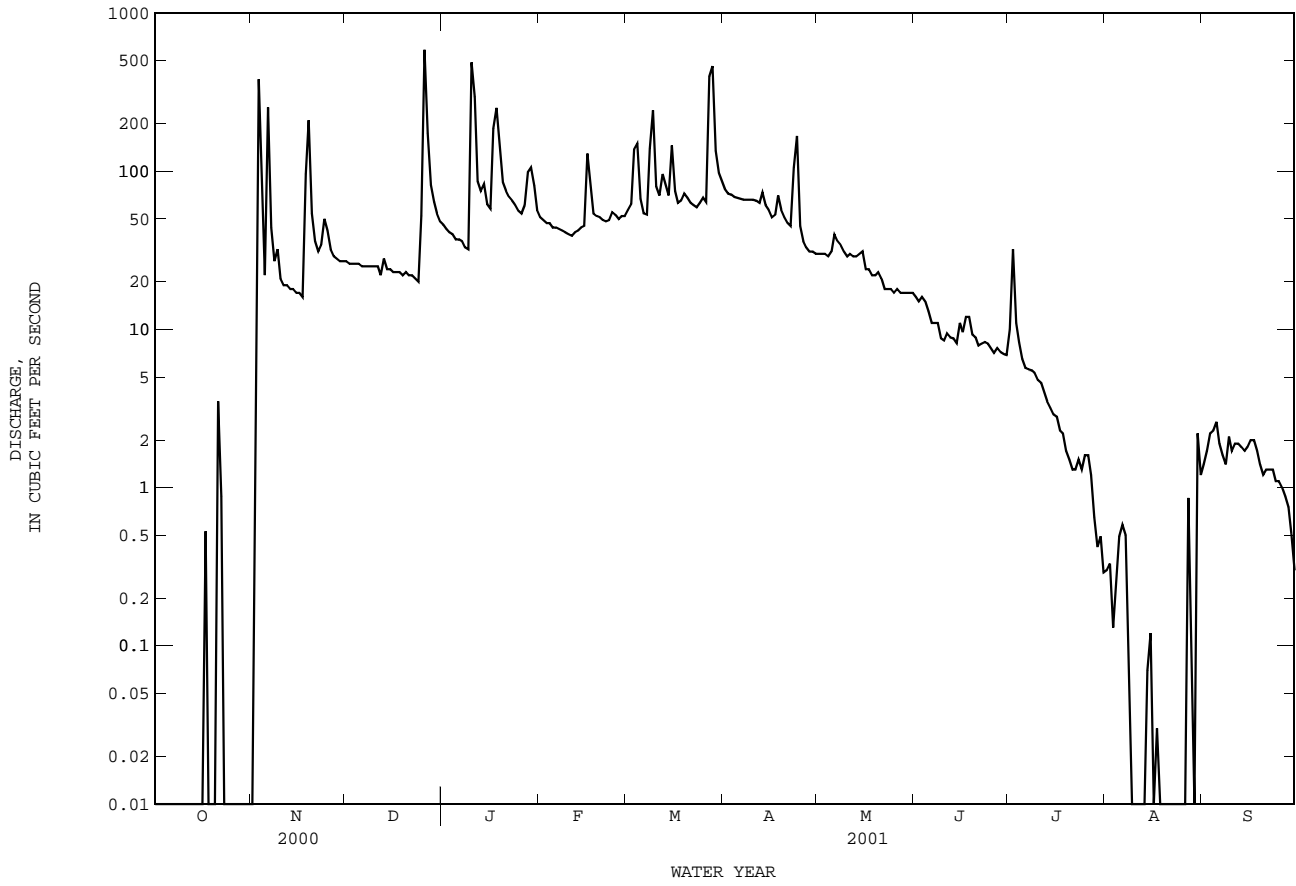
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

	MEAN	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	16.3	11.0	26.1	30.3	48.5	37.1	38.1	45.6	49.8	13.2	4.63	9.05																										
MAX	158	74.2	238	264	409	172	225	148	322	45.9	18.3	85.5																										
(WY)	1975	1975	1992	1968	1992	1992	1997	1979	1981	1973	1975	1996																										
MIN	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	.000																										
(WY)	1979	1989	1989	1990	1996	1996	1996	1996	1996	1978	1967	1978																										

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1967 - 2001

ANNUAL TOTAL	3708.27	14260.26		
ANNUAL MEAN	10.1	39.1		
HIGHEST ANNUAL MEAN			106	1992
LOWEST ANNUAL MEAN			.047	1984
HIGHEST DAILY MEAN	584	Dec 26	584	Dec 26
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 8	.00	Oct 1
MAXIMUM PEAK FLOW			2520	Jan 10
MAXIMUM PEAK STAGE			9.38	Jan 10
ANNUAL RUNOFF (AC-FT)	7360		28290	
10 PERCENT EXCEEDS	25		78	
50 PERCENT EXCEEDS	.15		23	
90 PERCENT EXCEEDS	.00		.00	

08105100 Berry Creek near Georgetown, TX--Continued



BRAZOS RIVER BASIN

08105600 Granger Lake near Granger, TX

LOCATION.--Lat 30°41'34", long 97°19'34", Williamson County, Hydrologic Unit 12070205, at Granger Dam on San Gabriel River, 1.5 mi south of Friendship, 2.2 mi upstream from Willis Creek, 7.1 mi east of Granger, and at mile 31.9.

DRAINAGE AREA.--730 mi².

PERIOD OF RECORD.--Jan. 1980 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000, to current year.
Water-quality records.--Chemical data: Oct. 1980 to Aug. 1989. Biochemical data: Oct. 1980 to Aug. 1989.

GAGE--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Prior to Mar. 27, 1980, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records fair. The lake is formed by a rolled earthfill dam, 16,320 ft long, including the spillway. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for water conservation and flood control. Deliberate impoundment began on Jan. 21, 1980. The spillway is an ungated 950-foot long ogee weir, located near right end of dam. The spillway for normal flood releases is a gated 18-foot-diameter conduit, controlled by two 8- by 18-foot slide gates, located near the center of dam. The invert for the floodgate is 457.0 ft. A low-flow outlet consists of three 3- by 4-foot gated openings, with invert elevations of 486.0, 494.0, and 502.0 ft. Conservation pool storage is 54,280 acre-ft. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam.....	555.0
Designed flood.....	550.3
Crest of spillway.....	528.0
Top of conservation pool.....	503.8
Lowest gated outlet (invert of 18-foot conduit).....	457.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by the Texas Water Development Board, was put into use beginning Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 268,200 acre-ft, Mar. 5, 1992, elevation, 530.11 ft; minimum contents after initial filling, 44,860 acre-ft, Sept. 23, 2000, elevation, 501.43 ft.

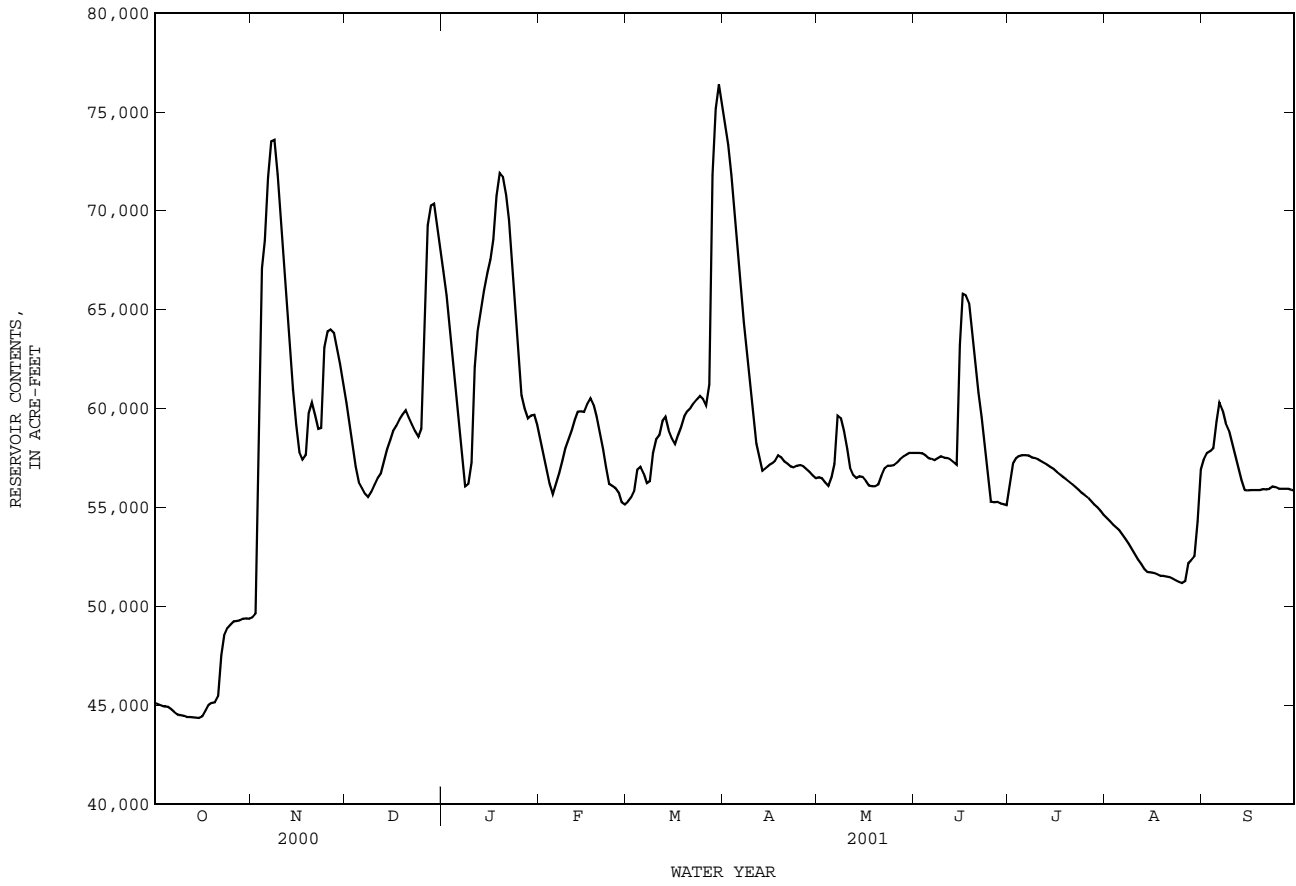
EXTREMES FOR CURRENT YEAR.--Maximum contents, 76,750 acre-ft, Mar. 30, elevation, 508.61 ft; minimum contents, 44,280 acre-ft, Oct. 15, 16, elevation, 501.27 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45090	49440	60290	66940	58470	55300	74430	56520	57750	56140	54460	57420
2	45030	49620	59210	65710	57730	55500	73340	56470	57760	57210	54300	57740
3	44970	57660	58120	63790	56950	55810	71810	56260	57730	57470	54130	57830
4	44930	67090	57060	61900	56180	56910	69900	56090	57640	57590	53980	57990
5	44910	68500	56260	60160	55670	57050	68090	56530	57500	57640	53850	59340
6	44800	71670	55980	58690	56210	56710	66310	57180	57450	57640	53630	60310
7	44660	73510	55690	57290	56730	56210	64340	59650	57380	57620	53400	59920
8	44530	73580	55520	56060	57360	56320	62790	59520	57480	57530	53160	59260
9	44490	71860	55780	56190	57980	57730	61240	58850	57580	57490	52880	58880
10	44460	69650	56140	57260	58430	58430	59670	57960	57510	57430	52630	58310
11	44390	67380	56480	62110	58890	58640	58230	57010	57490	57330	52370	57660
12	44390	65290	56680	63920	59430	59370	57520	56640	57430	57230	52130	57020
13	44380	63190	57310	64940	59840	59560	56850	56480	57300	57160	51880	56380
14	44370	60980	57930	65980	59860	58910	56980	56570	57160	57040	51730	55880
15	44350	59200	58400	66820	59830	58490	57120	56540	63210	56940	51720	55860
16	44430	57800	58850	67530	60230	58210	57220	56340	65800	56790	51680	55870
17	44720	57420	59110	68550	60520	58650	57370	56100	65720	56670	51620	55870
18	45000	57640	59430	70750	60220	59070	57630	56070	65330	56540	51540	55880
19	45110	59760	59690	71900	59590	59000	57520	56070	63900	56420	51530	55880
20	45140	60290	59900	71700	58740	59880	57320	56150	62370	56300	51510	55920
21	45450	59670	59550	70800	57940	60040	57210	56610	60820	56160	51470	55910
22	47530	58970	59190	69540	57060	60270	57080	56980	59560	56040	51390	55940
23	48530	59020	58850	67310	56180	60450	57030	57110	57960	55890	51310	56060
24	48900	63100	58580	65030	56090	60640	57100	57100	56450	55730	51230	56020
25	49080	63890	58960	62630	55970	60470	57140	57140	55300	55620	51170	55940
26	49230	63980	64000	60660	55740	60170	57070	57270	55260	55480	51260	55940
27	49250	63830	69270	59990	55260	61210	56950	57440	55280	55320	52190	55940
28	49290	63090	70250	59500	55140	71810	56790	57570	55200	55140	52330	55940
29	49370	62260	70340	59650	---	75160	56620	57660	55160	55000	52530	55890
30	49390	61250	69160	59680	---	76380	56470	57750	55110	54820	54310	55850
31	49370	---	67980	59180	---	75420	---	57750	---	54630	56910	---
MEAN	46110	62690	60000	63620	57790	60590	60500	57080	58590	56520	52590	56960
MAX	49390	73580	70340	71900	60520	76380	74430	59650	65800	57640	56910	60310
MIN	44350	49440	55520	56060	55140	55300	56470	56070	55110	54630	51170	55850
(+)	502.62	505.44	506.88	504.98	504.04	508.36	504.35	504.65	504.03	503.92	504.46	504.21
(@)	+4440	+11880	+6730	-8800	-4040	+20280	-18950	+1280	-2640	-480	+2280	-1060
CAL YR 2000	MAX 73580	MIN 44350	(@) +18450									
WTR YR 2001	MAX 76380	MIN 44350	(@) +10920									

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

08105600 Granger Lake near Granger, TX--Continued



BRAZOS RIVER BASIN

08105700 San Gabriel River at Laneport, TX

LOCATION.--Lat 30°41'39", long 97°16'43", Williamson County, Hydrologic Unit 12070205, on right bank at upstream side of county bridge, 0.2 mi north of Laneport, 3.4 mi downstream from Willis Creek, 7.5 mi northwest of Thrall, and 26.2 mi upstream from mouth.

DRAINAGE AREA.--738 mi².

PERIOD OF RECORD.--July 1965 to current year.

Water-quality records.--Chemical data: July 1972 to Aug. 1989. Biochemical data: July 1972 to Aug. 1989. Water temperature: Dec. 1976 to Mar. 1982.

REVISED RECORDS.--WRD TX-74-1: 1965(M), 1966(P), 1967(M), 1968, 1969(P), 1973(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 412.60 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since water year, 1980, at least 10% of contributing drainage area has been regulated. No known diversions. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1966-79), 289 ft³/s (209,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1965-79).--Maximum discharge, 31,200 ft³/s Oct. 31, 1974 (gage height, 30.80 ft); minimum daily, 0.28 ft³/s Aug. 25-28, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1910, 39.6 ft, occurred Sept. 1921. Other significant floods occurred Apr. 1957, 34.6 ft; and Oct. 1959, 33.8 ft; from floodmarks at present site and datum (discharges not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.9	593	834	481	345	1300	291	128	314	39	12
2	2.5	36	601	897	486	346	1310	291	125	56	40	10
3	2.5	175	607	1050	494	355	1490	289	124	44	40	9.6
4	2.2	34	612	1020	501	527	1600	222	124	43	40	9.5
5	2.4	7.4	419	920	240	699	1580	122	124	42	40	117
6	2.6	13	255	789	30	694	1560	189	124	42	52	122
7	2.6	348	257	769	73	478	1490	379	123	42	73	384
8	2.7	1190	136	481	86	368	1300	830	127	42	73	379
9	2.6	1020	7.8	1.7	92	369	1280	822	124	41	73	413
10	2.9	962	7.5	9.4	94	368	1280	816	124	41	73	382
11	2.7	929	8.5	11	96	369	1030	728	123	41	73	380
12	2.8	928	8.3	7.4	99	377	748	453	122	41	72	377
13	2.9	918	12	6.7	248	695	543	389	121	41	66	382
14	2.9	822	11	6.9	391	1010	284	303	120	41	40	208
15	3.2	687	10	6.1	390	995	284	304	204	40	9.3	10
16	3.6	452	10	6.1	399	607	284	304	150	41	9.2	9.8
17	5.0	120	10	282	512	224	287	244	146	41	9.2	9.8
18	3.6	133	11	654	735	224	337	121	512	41	9.2	9.8
19	2.7	136	11	651	735	224	434	121	851	41	9.8	9.8
20	2.9	301	128	762	734	312	435	122	834	41	9.2	9.8
21	8.5	466	254	941	732	386	434	123	834	41	9.1	9.7
22	11	329	252	952	730	386	433	125	833	40	9.1	9.7
23	3.2	161	253	1000	613	387	435	125	824	41	9.1	10
24	3.3	181	254	989	367	391	436	124	806	41	9.1	10
25	2.6	179	265	1020	359	392	435	124	413	40	9.1	10
26	2.6	182	314	687	452	392	435	124	44	40	14	10
27	2.6	296	280	363	684	500	438	125	42	40	15	10
28	2.6	568	262	448	503	307	439	125	42	40	16	10
29	2.6	578	627	490	---	122	439	128	41	40	11	10
30	2.8	584	941	469	---	640	363	128	41	40	292	10
31	2.9	---	874	474	---	1330	---	127	---	39	36	---
TOTAL	103.1	12738.3	8291.1	16997.3	11356	14819	23143	8718	8350	1558	1279.4	3343.5
MEAN	3.33	425	267	548	406	478	771	281	278	50.3	41.3	111
MAX	11	1190	941	1050	735	1330	1600	830	851	314	292	413
MIN	2.2	2.9	7.5	1.7	30	122	284	121	41	39	9.1	9.5
AC-FT	204	25270	16450	33710	22520	29390	45900	17290	16560	3090	2540	6630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001z, BY WATER YEAR (WY)

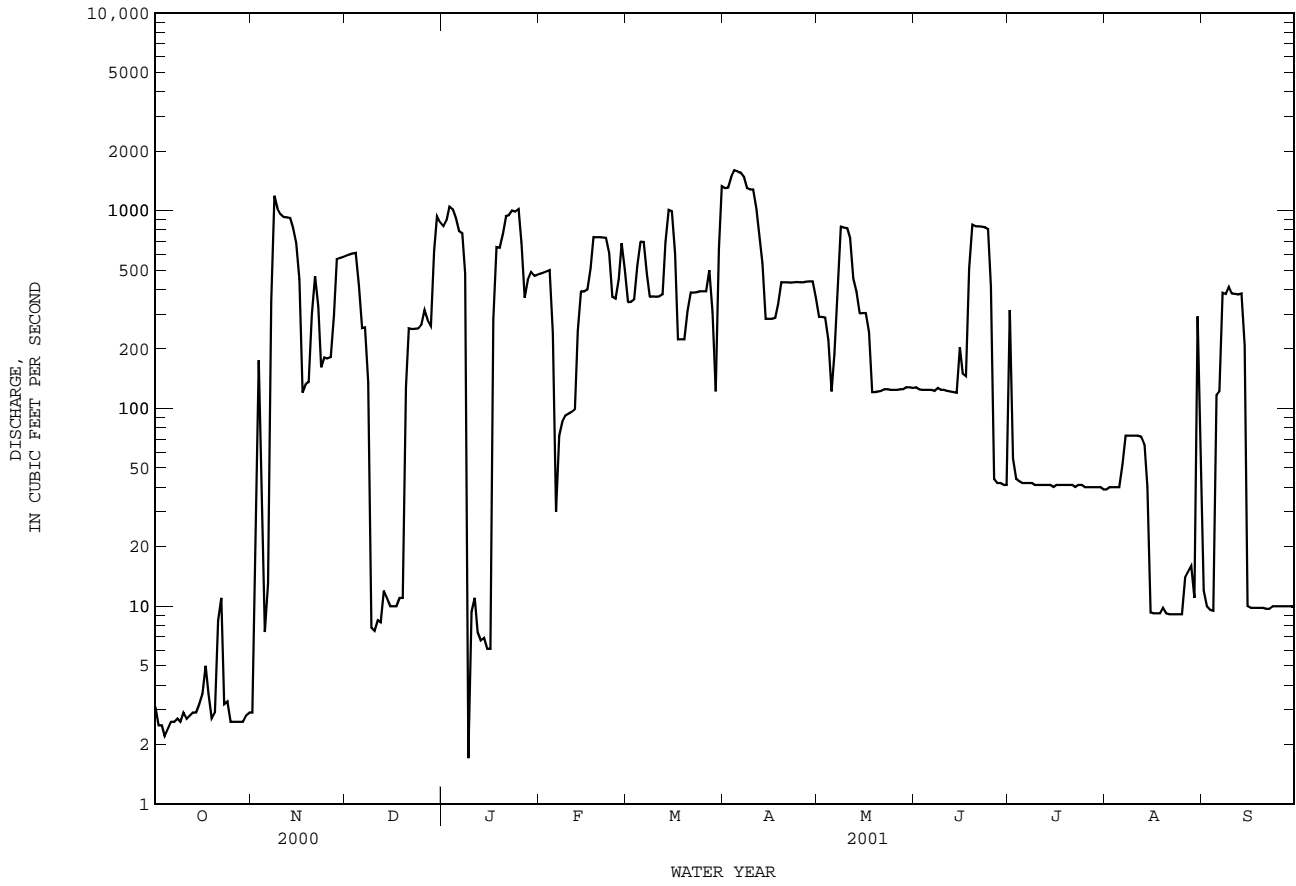
MEAN	85.1	142	209	267	291	398	324	409	452	373	36.3	79.1
MAX	545	899	953	1233	1334	2210	1685	2103	1732	2196	134	922
(WY)	1999	1999	1986	1987	1992	1992	1992	1997	1981	1992	1992	1981
MIN	3.21	3.99	3.06	5.25	2.62	3.24	3.53	2.87	4.21	.19	.018	.000
(WY)	1983	1983	1983	1981	1980	1980	1984	1984	1996	1984	1984	1984

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1980 - 2001z

ANNUAL TOTAL	27178.31	110696.7	
ANNUAL MEAN	74.3	303	255
HIGHEST ANNUAL MEAN			1015
LOWEST ANNUAL MEAN			18.4
HIGHEST DAILY MEAN	1190	Nov 8	1600
LOWEST DAILY MEAN	.75	Aug 8	1.7
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 5	2.5
MAXIMUM PEAK FLOW			1700
MAXIMUM PEAK STAGE			11.16
ANNUAL RUNOFF (AC-FT)	53910	219600	184900
10 PERCENT EXCEEDS	256	831	833
50 PERCENT EXCEEDS	7.1	136	33
90 PERCENT EXCEEDS	2.9	7.4	3.8

z Period of regulated streamflow.

08105700 San Gabriel River at Laneport, TX--Continued



BRAZOS RIVER BASIN

08106350 Little River near Rockdale, TX
(Partial-record station)

LOCATION.--Lat 30°45'38", long 97°00'49", Milam County, Hydrologic Unit 12070204, on right bank downstream from Alcoa pumping station, 200 ft downstream from mouth of San Gabriel River, and 6.8 mi north of Rockdale.

DRAINAGE AREA.--6,959 mi².

PERIOD OF RECORD.--Feb. 1981 to current year (daily mean discharges less than 1,000 ft³/s).

GAGE.--Water-stage recorder. Datum of gage is 299.12 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in 1981, at least 10% of contributing drainage area has been regulated. There are numerous diversions for irrigation and municipal supply above station. Flow in the San Gabriel may be affected at times by discharge from the flood-detention pools of 46 flood water-retarding structures. These structures control runoff from 144 mi², in the Brushy Creek drainage basin. The Aluminum Company of America diverts water from Little River to their plant reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 38.34 ft Dec. 21, 1991 (maximum discharge not determined); minimum daily discharge 13.0 ft³/s May 9, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 31.96 ft, Mar. 28 (maximum discharge not determined); minimum discharge, 50 ft³/s, Oct. 2, 15, gage height, 3.66 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

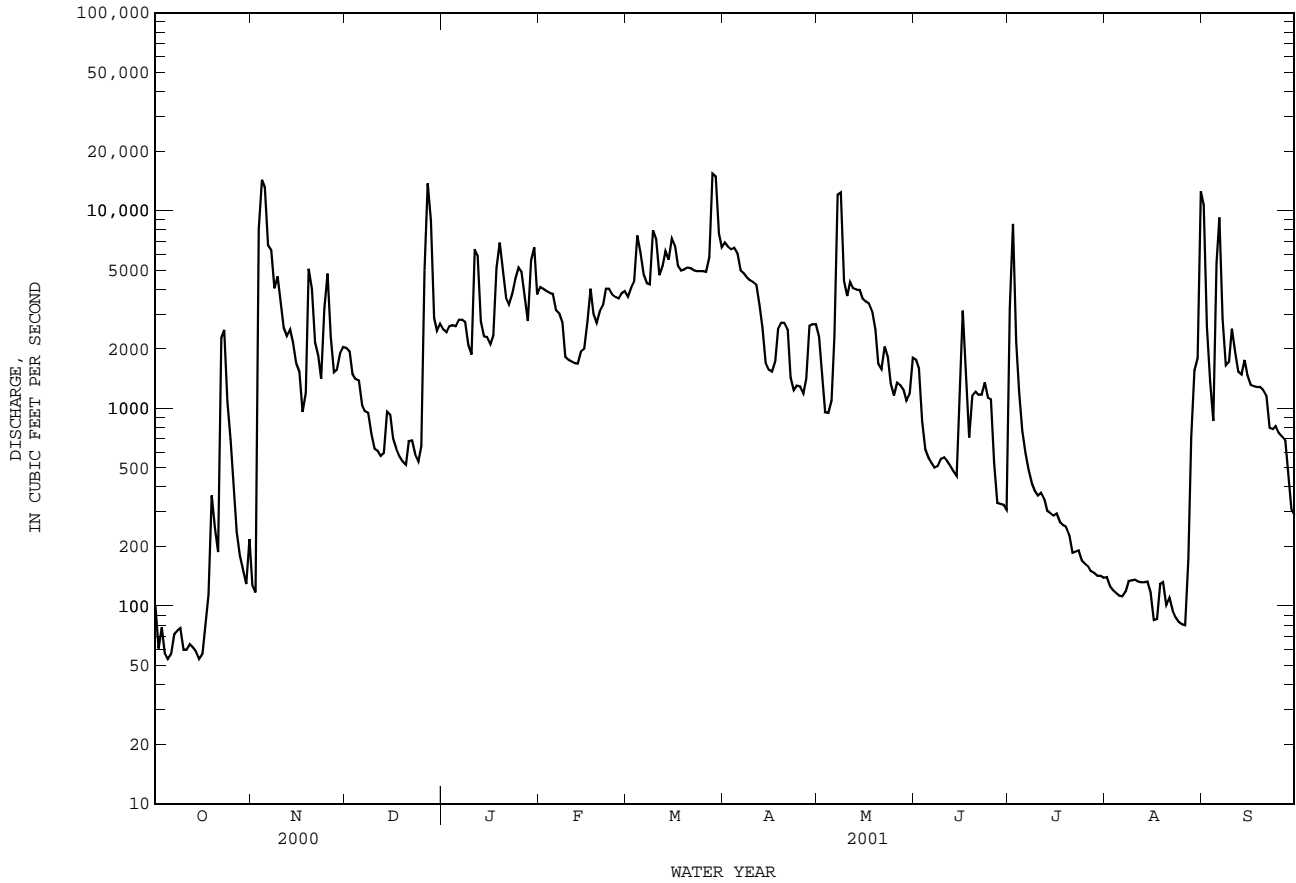
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	165	---	---	---	---	---	---	---	---	151	---
2	77	186	---	---	---	---	---	---	---	---	136	---
3	80	---	---	---	---	---	---	944	794	---	129	---
4	61	---	---	---	---	---	---	---	644	---	125	792
5	58	---	---	---	---	---	---	---	593	733	118	---
6	73	---	---	---	---	---	---	---	569	575	116	---
7	82	---	---	---	---	---	---	---	549	487	127	---
8	84	---	---	---	---	---	---	---	564	434	134	---
9	79	---	897	---	---	---	---	---	591	402	129	---
10	64	---	827	---	---	---	---	---	600	382	128	---
11	68	---	807	---	---	---	---	---	579	377	123	---
12	70	---	778	---	---	---	---	---	549	345	119	---
13	66	---	867	---	---	---	---	---	519	309	116	---
14	62	---	---	---	---	---	---	---	494	297	121	---
15	55	---	---	---	---	---	---	---	---	303	88	---
16	63	---	949	---	---	---	---	---	---	295	68	---
17	92	---	880	---	---	---	---	---	---	274	73	---
18	150	---	828	---	---	---	---	---	724	265	153	---
19	479	---	796	---	---	---	---	---	---	263	109	---
20	209	---	781	---	---	---	---	---	---	226	102	---
21	233	---	1000	---	---	---	---	---	---	190	101	---
22	---	---	942	---	---	---	---	---	---	200	93	754
23	---	---	838	---	---	---	---	---	---	186	87	756
24	---	---	805	---	---	---	---	---	---	175	85	794
25	704	---	974	---	---	---	---	---	---	171	83	723
26	393	---	---	---	---	---	---	---	487	164	88	690
27	249	---	---	---	---	---	---	---	400	163	293	641
28	200	---	---	---	---	---	---	---	401	160	804	368
29	178	---	---	---	---	---	---	---	381	161	---	291
30	201	---	---	---	---	---	---	---	376	158	---	277
31	270	---	---	---	---	---	---	---	---	158	---	---

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08106500 Little River near Cameron, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001z	
ANNUAL TOTAL	243007		885480		1715	
ANNUAL MEAN	664		2426		7759	
HIGHEST ANNUAL MEAN					1992	
LOWEST ANNUAL MEAN					174	
HIGHEST DAILY MEAN	14300	Nov 4	15400	Mar 28	84200	May 18 1965
LOWEST DAILY MEAN	24	Aug 10	54	Oct 5	.00	Jul 12 1956
ANNUAL SEVEN-DAY MINIMUM	32	Jul 11	59	Oct 10	.00	Jul 12 1956
MAXIMUM PEAK FLOW			17500	Mar 28	116000	Apr 5 1957
MAXIMUM PEAK STAGE			26.28	Mar 28	39.56	Apr 5 1957
ANNUAL RUNOFF (AC-FT)	482000		1756000		1242000	
10 PERCENT EXCEEDS	1730		5480		4970	
50 PERCENT EXCEEDS	161		1570		489	
90 PERCENT EXCEEDS	54		129		68	

e Estimated
z Period of regulated streamflow.



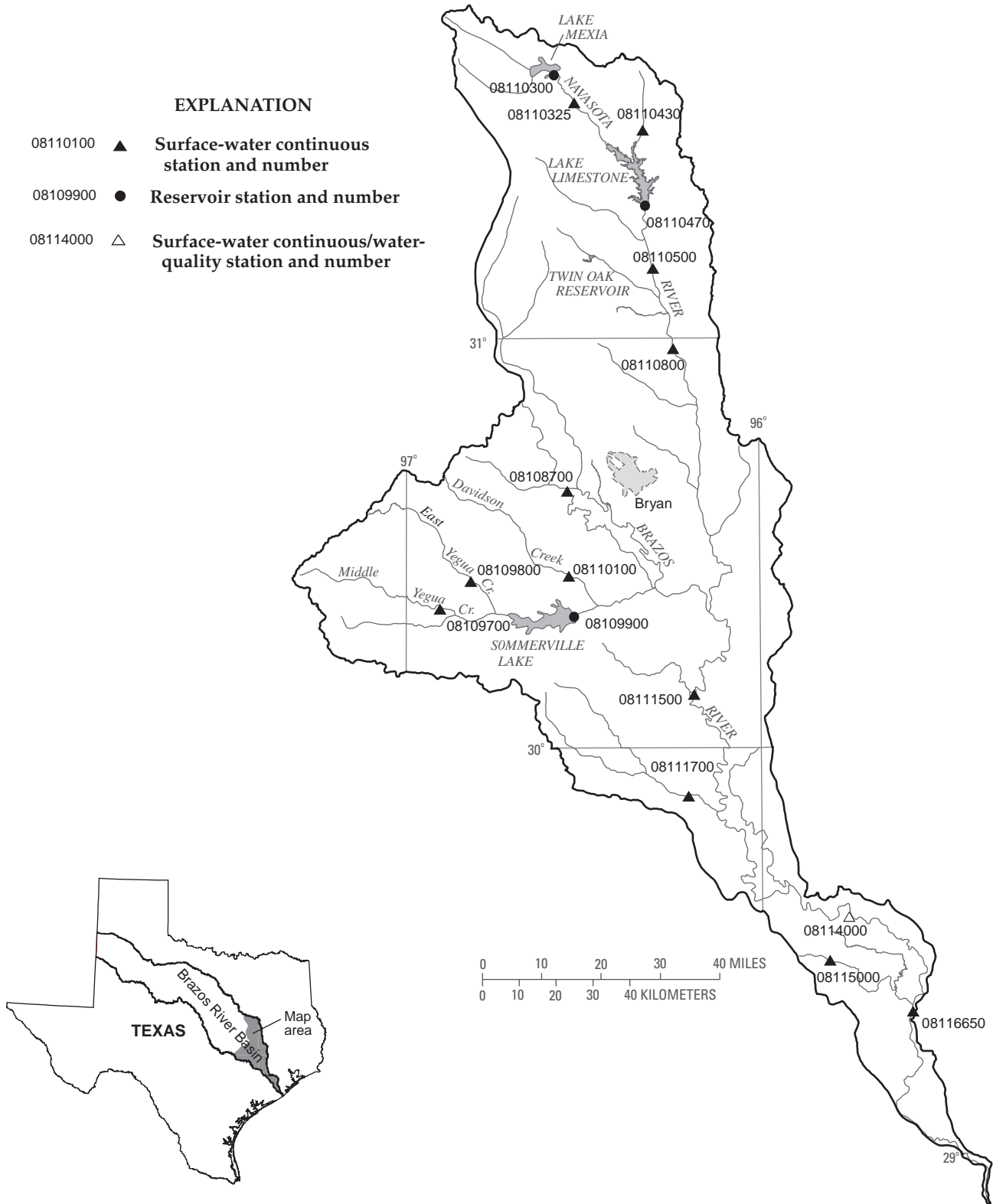


Figure 9.--Map showing location of gaging stations in the fourth section of the Brazos River Basin

08108700	Brazos River at State Highway 21 near Bryan, TX	414
08109700	Middle Yegua River near Dime Box, TX	416
08109800	East Yegua Creek near Dime Box, TX	418
08109900	Somerville Lake near Somerville, TX	420
08110100	Davidson Creek near Lyons, TX	422
08110300	Lake Mexia near Mexia, TX	424
08110325	Navasota River above Groesbeck, TX	426
08110430	Big Creek near Freestone, TX	428
08110470	Lake Limestone near Marquez, TX	430
08110500	Navasota River near Easterly, TX	432
08110800	Navosota River at OSR near Bryan, TX	434
08111500	Brazos River near Hempstead, TX	436
08111700	Mill Creek near Bellville, TX	438
08114000	Brazos River at Richmond, TX	440
08115000	Big Creek near Needville, TX	444
08116650	Brazos River near Rosharon, TX	446

BRAZOS RIVER BASIN

08108700 Brazos River at State Highway 21 near Bryan, TX

LOCATION.--Lat 30°37'36", long 96°32'38", Brazos-Burleson County line, Hydrologic Unit 12070101, on right bank, 8 ft downstream from bridge on State Highway 21, 2.1 mi upstream from Little Brazos River, 10.5 mi west of Bryan.

DRAINAGE AREA.--39,049 mi², approximately, of which 9,566 mi² probably is noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 188.65 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in 1993, at least 10% of contributing drainage area has been regulated. Many small diversions above station for irrigation, municipal, industrial, and oil field operation. Flow is affected at times by discharge from the flood-detention pools of 145 floodwater-retarding structures. These structures control runoff from 450 mi².

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 5, 1913, reached a stage of 61 ft, present site and datum, from information by Texas and New Orleans Railroad Co. at their bridge 200 ft upstream. Flood in 1854 reached about the same stage as flood of Dec. 5, 1913.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	349	3680	6900	9540	12200	19700	4890	2530	1200	1090	31500
2	249	634	3750	5930	7750	18000	15600	4440	3210	10500	989	15400
3	268	4330	3470	5480	7060	26600	14900	3510	2790	9480	1120	5790
4	310	18000	2860	5590	6740	31600	13000	4190	1960	3430	640	4620
5	272	25000	2890	5330	6480	34000	10300	4370	1950	2230	686	3770
6	234	19400	2850	5230	6240	30200	8690	7370	2000	1480	708	18400
7	195	16200	2330	5240	5620	23100	7580	18200	1610	1510	490	13600
8	171	12300	2220	5060	5660	16100	7360	23400	1380	1140	392	5440
9	180	10500	2180	6300	5150	22700	7640	16700	2200	868	655	6060
10	437	8750	1980	5680	4280	33700	7890	9570	1540	1010	652	5600
11	383	7000	2050	8560	4100	27500	7890	8700	1160	1360	539	5680
12	299	4940	1530	16200	3810	22600	7680	8590	1010	1450	865	3850
13	284	4290	2130	11300	3520	26000	6570	7340	941	1800	1010	2930
14	329	4360	2570	7500	3210	30100	5920	9150	918	1550	908	2590
15	271	3960	3790	6080	3550	33500	5370	7690	1260	1500	1160	2660
16	244	3920	3430	5350	4040	34000	6400	6410	6380	1390	1360	2300
17	235	4090	2750	5040	9980	31700	6620	5710	4770	1260	1370	2050
18	295	4390	1990	10900	15700	24600	6870	5800	2770	1170	1350	2540
19	473	7140	1740	23300	11700	18000	7550	5280	2050	1260	1130	2640
20	422	12100	1810	21600	10200	17500	7380	5280	1940	1450	1230	2460
21	610	7170	1490	13300	15800	16700	5630	3780	1850	2400	1250	2190
22	647	4760	1880	8560	14300	15900	4750	3110	1710	1590	1520	1970
23	4370	4230	2040	6320	12100	15400	3660	3520	1620	1620	1640	1570
24	3350	3750	2010	6240	12100	14200	2970	3140	1870	1450	1640	1690
25	2140	13600	2580	6470	11600	11000	3040	2510	1900	1780	1460	1390
26	1300	12300	5750	7090	11600	9470	3200	2780	1620	1950	1640	1230
27	814	8270	28700	6570	11400	10100	5250	2720	1190	1480	1640	1130
28	579	5030	36000	5260	11600	21200	4420	2620	1220	1330	1760	1080
29	443	3850	22400	6730	---	31500	5040	2620	969	1430	2290	915
30	368	3760	12600	15400	---	30600	4930	3090	1130	1420	4120	700
31	326	---	8990	13200	---	23200	---	2620	---	1330	18400	---
TOTAL	20754	238373	176440	267710	234830	712970	223800	199100	59448	64458	55704	153745
MEAN	669	7946	5692	8636	8387	23000	7460	6423	1982	2079	1797	5125
MAX	4370	25000	36000	23300	15800	34000	19700	23400	6380	10500	18400	31500
MIN	171	349	1490	5040	3210	9470	2970	2510	918	868	392	700
AC-FT	41170	472800	350000	531000	465800	1414000	443900	394900	117900	127900	110500	305000

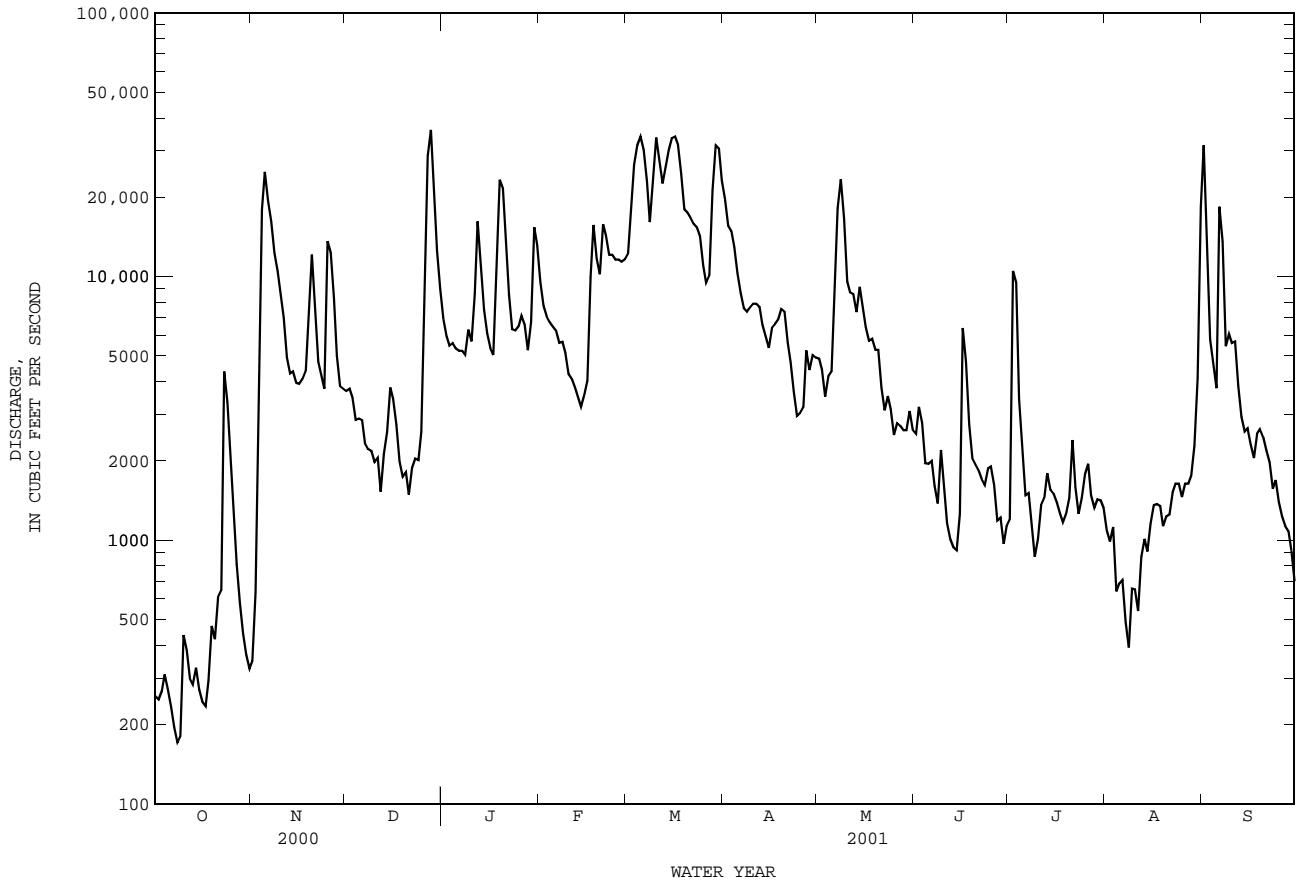
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	2564	3209	5126	5228
MAX	11490	8769	8890	16460
MIN	1999	1999	1999	1998
(WY)	170	192	314	619
(WY)	2000	2000	2000	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1993 - 2001

ANNUAL TOTAL	717607	2407332	
ANNUAL MEAN	1961	6595	4894
HIGHEST ANNUAL MEAN			11920
LOWEST ANNUAL MEAN			827
HIGHEST DAILY MEAN	36000	Dec 28	36000
LOWEST DAILY MEAN	171	Oct 8	171
ANNUAL SEVEN-DAY MINIMUM	218	Feb 17	233
MAXIMUM PEAK FLOW			38000
MAXIMUM PEAK STAGE			29.51
ANNUAL RUNOFF (AC-FT)	1423000	4775000	3546000
10 PERCENT EXCEEDS	4340	17000	13700
50 PERCENT EXCEEDS	718	3790	1460
90 PERCENT EXCEEDS	270	705	458

08108700 Brazos River at State Highway 21 near Bryan, TX--Continued



BRAZOS RIVER BASIN

08109700 Middle Yegua Creek near Dime Box, TX

LOCATION.--Lat 30°20'21", long 96°54'16", Lee County, Hydrologic Unit 12070102, on right bank 25 ft upstream from centerline of State Highway 21, 4.5 mi upstream from West Yegua Creek, 5.0 mi southwest of Dime Box, and 17.5 mi upstream from mouth.

DRAINAGE AREA.--236 mi².

PERIOD OF RECORD.--Aug. 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 295.40 ft above sea level (furnished by Texas Department of Transportation). June 30 to July 21, 1970, nonrecording gage at same site and datum. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1851, 16 ft in Dec. 1913, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.7	43	156	131	29	882	16	18	21	8.9	95
2	10	9.3	35	78	67	54	358	17	17	26	10	76
3	9.3	47	41	58	49	147	109	17	18	112	11	35
4	6.6	220	47	50	42	300	76	15	19	144	9.1	16
5	4.0	433	38	46	39	245	64	23	18	92	8.6	39
6	3.7	1440	32	50	48	268	54	35	16	42	8.7	148
7	3.8	1590	30	47	45	227	46	83	14	26	9.7	179
8	7.2	1480	30	41	37	89	40	151	14	18	8.7	275
9	6.8	1480	36	39	36	161	37	268	16	16	9.1	352
10	5.8	1040	35	54	35	234	34	357	44	15	8.8	393
11	8.4	200	30	130	33	350	31	447	51	14	8.5	213
12	9.8	78	27	194	33	462	29	204	31	13	8.4	71
13	9.8	69	85	261	44	359	34	79	17	13	8.2	43
14	9.1	75	156	311	47	211	38	55	15	12	8.5	33
15	6.0	54	160	147	37	319	36	40	15	12	10	33
16	5.2	41	108	85	51	272	29	33	70	11	14	24
17	34	36	64	69	98	322	28	35	138	11	13	17
18	53	41	48	92	139	380	28	37	160	11	11	14
19	29	88	40	238	81	163	27	34	89	15	9.1	14
20	27	165	35	255	53	95	26	27	30	15	8.6	16
21	19	217	36	259	44	86	25	24	29	15	8.5	22
22	17	218	34	331	44	70	25	62	36	13	8.3	20
23	49	95	31	157	44	51	27	79	54	10	8.2	15
24	53	178	34	76	38	45	27	39	71	9.7	8.0	13
25	32	149	73	65	34	43	25	34	28	9.7	8.5	12
26	27	95	201	53	31	40	21	38	20	9.8	7.8	12
27	22	69	377	46	29	123	18	50	17	10	7.4	13
28	20	52	376	44	28	485	17	49	15	9.9	4.7	14
29	17	44	484	50	---	538	16	36	14	9.8	40	13
30	13	44	779	110	---	1170	16	23	13	9.7	48	12
31	9.2	---	817	165	---	1240	---	19	---	9.4	41	---
TOTAL	536.7	9756.0	4362	3757	1437	8578	2223	2426	1107	755.0	382.3	2232
MEAN	17.3	325	141	121	51.3	277	74.1	78.3	36.9	24.4	12.3	74.4
MAX	53	1590	817	331	139	1240	882	447	160	144	48	393
MIN	3.7	8.7	27	39	28	29	16	15	13	9.4	4.7	12
AC-FT	1060	19350	8650	7450	2850	17010	4410	4810	2200	1500	758	4430

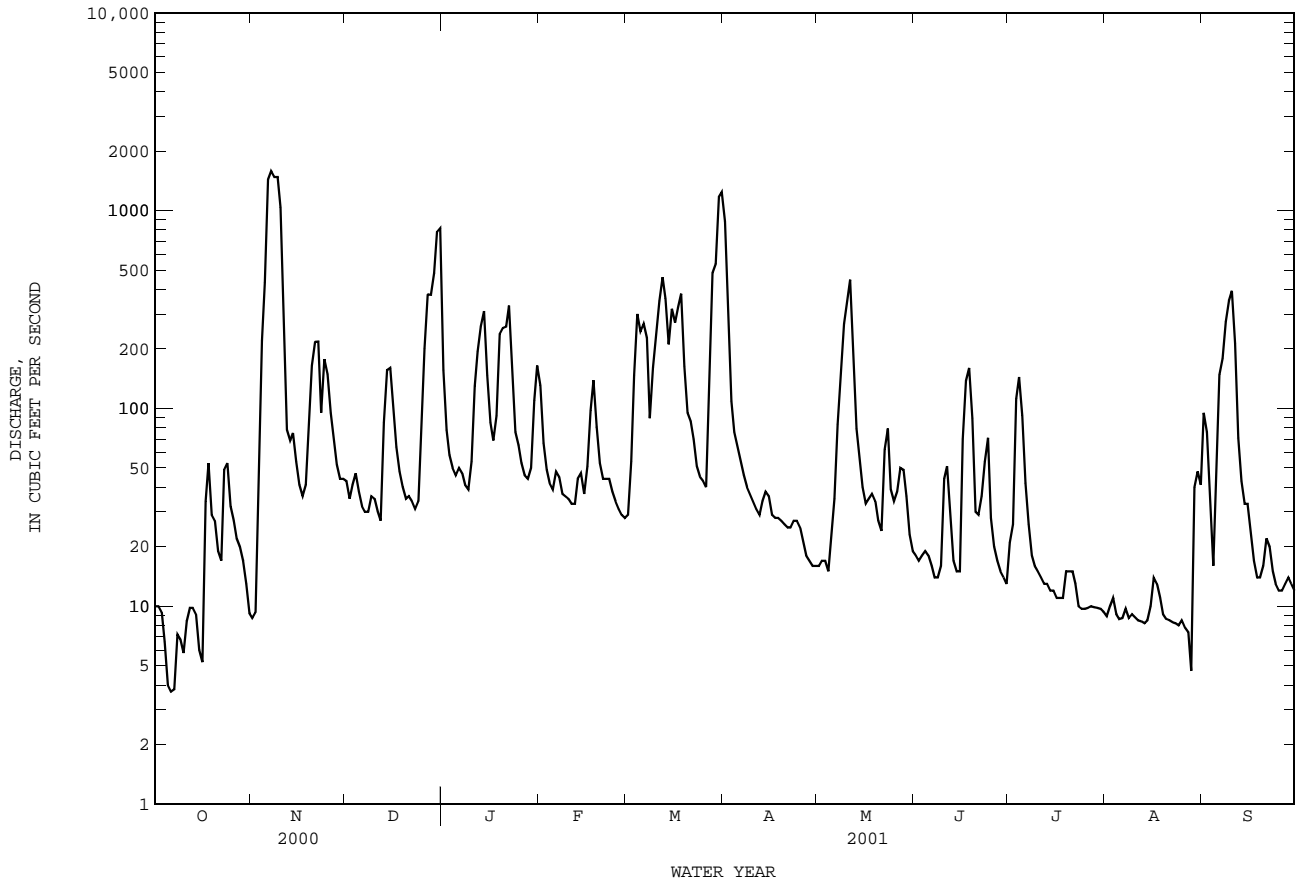
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1962	33.4	385	1995	.000	1964	58.8	528	1999	.000	1964	81.8	694	1992	.000	1964
1963	66.3	481	1991	.006	1964	85.1	891	1992	.007	1964	68.6	280	1970	.65	1971
1964	56.2	355	1975	.72	1971	112	662	1987	.000	1984	95.7	1052	1987	.000	1984
1965	7.45	67.7	1975	.000	1963	2.72	18.2	1974	.000	1963	17.9	67.7	1974	.000	1963
1966	17.9	368	1974	.000	1963	17.9	368	1974	.000	1963	17.9	368	1974	.000	1963

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1962 - 2001

ANNUAL TOTAL	19317.5	37552.0	
ANNUAL MEAN	52.8	103	57.0
HIGHEST ANNUAL MEAN			256
LOWEST ANNUAL MEAN			.55
HIGHEST DAILY MEAN	1590	Nov 7	1590
LOWEST DAILY MEAN	2.2	Sep 4	3.7
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 31	5.4
MAXIMUM PEAK FLOW			1760
MAXIMUM PEAK STAGE			10.63
ANNUAL RUNOFF (AC-FT)	38320	74480	41280
10 PERCENT EXCEEDS	66	257	85
50 PERCENT EXCEEDS	15	36	6.7
90 PERCENT EXCEEDS	6.1	9.4	.00

08109700 Middle Yegua Creek near Dime Box, TX--Continued



BRAZOS RIVER BASIN

08109800 East Yegua Creek near Dime Box, TX

LOCATION.--Lat 30°24'26", long 96°49'02", Burleson County, Hydrologic Unit 12070102, on left bank 49 ft upstream from centerline of State Highway 21, 0.8 mi downstream from Buffalo Creek, 3.5 mi north of Dime Box, and 12.2 mi upstream from mouth.

DRAINAGE AREA.--244 mi².

PERIOD OF RECORD.--Aug. 1962 to current year.

Water-quality records.--Chemical data: Nov. 1980 to Aug. 1987. Biochemical data: Nov. 1980 to Aug. 1987. Sediment data: June 1966 to Sept. 1975.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 284.00 ft (State Department of Highways and Public Transportation datum). Nov. 6 to Dec. 10, 1970, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. Diversions above station for irrigation. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1886, 17 ft in 1899 and 1957, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	27	48	81	69	39	213	23	23	35	16	71
2	20	28	44	72	60	87	99	22	22	67	15	54
3	18	112	41	65	55	247	80	22	20	69	15	43
4	18	328	38	62	53	367	73	22	20	34	15	38
5	18	463	37	60	50	386	69	40	19	25	16	42
6	20	634	37	60	47	272	65	68	18	22	16	78
7	24	408	37	59	45	101	59	156	18	19	17	99
8	25	366	38	56	46	109	54	420	21	17	16	68
9	28	215	36	54	47	314	50	921	38	18	15	111
10	28	97	37	71	44	600	44	655	80	18	15	e164
11	27	66	38	155	40	398	39	325	56	18	15	e66
12	26	57	37	261	38	206	35	111	39	18	14	36
13	25	55	127	279	40	171	34	69	32	18	14	30
14	25	55	228	142	44	213	34	58	27	19	15	28
15	26	42	173	94	46	317	34	52	28	19	15	26
16	27	39	95	80	74	430	37	45	63	19	16	25
17	31	39	73	79	104	373	44	39	53	18	16	25
18	31	54	65	119	83	158	46	33	34	17	15	24
19	31	110	58	278	60	94	41	31	27	17	16	23
20	30	156	55	358	54	81	36	28	23	16	16	23
21	28	120	54	335	51	68	33	32	21	17	16	23
22	27	67	52	147	48	61	30	36	20	17	16	24
23	39	58	46	83	45	57	29	33	20	17	16	25
24	47	145	60	71	45	58	28	30	20	16	15	31
25	51	94	132	64	44	61	27	31	20	16	15	29
26	48	68	233	63	41	60	25	37	19	16	16	27
27	46	56	423	61	38	177	24	38	19	16	22	26
28	40	53	547	60	37	384	24	36	20	17	35	27
29	35	52	456	84	---	719	25	30	18	16	30	27
30	31	51	277	99	---	766	23	26	18	17	31	27
31	29	---	113	98	---	504	---	24	---	17	49	---
TOTAL	919	4115	3735	3650	1448	7878	1454	3493	856	685	569	1340
MEAN	29.6	137	120	118	51.7	254	48.5	113	28.5	22.1	18.4	44.7
MAX	51	634	547	358	104	766	213	921	80	69	49	164
MIN	18	27	36	54	37	39	23	22	18	16	14	23
AC-FT	1820	8160	7410	7240	2870	15630	2880	6930	1700	1360	1130	2660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

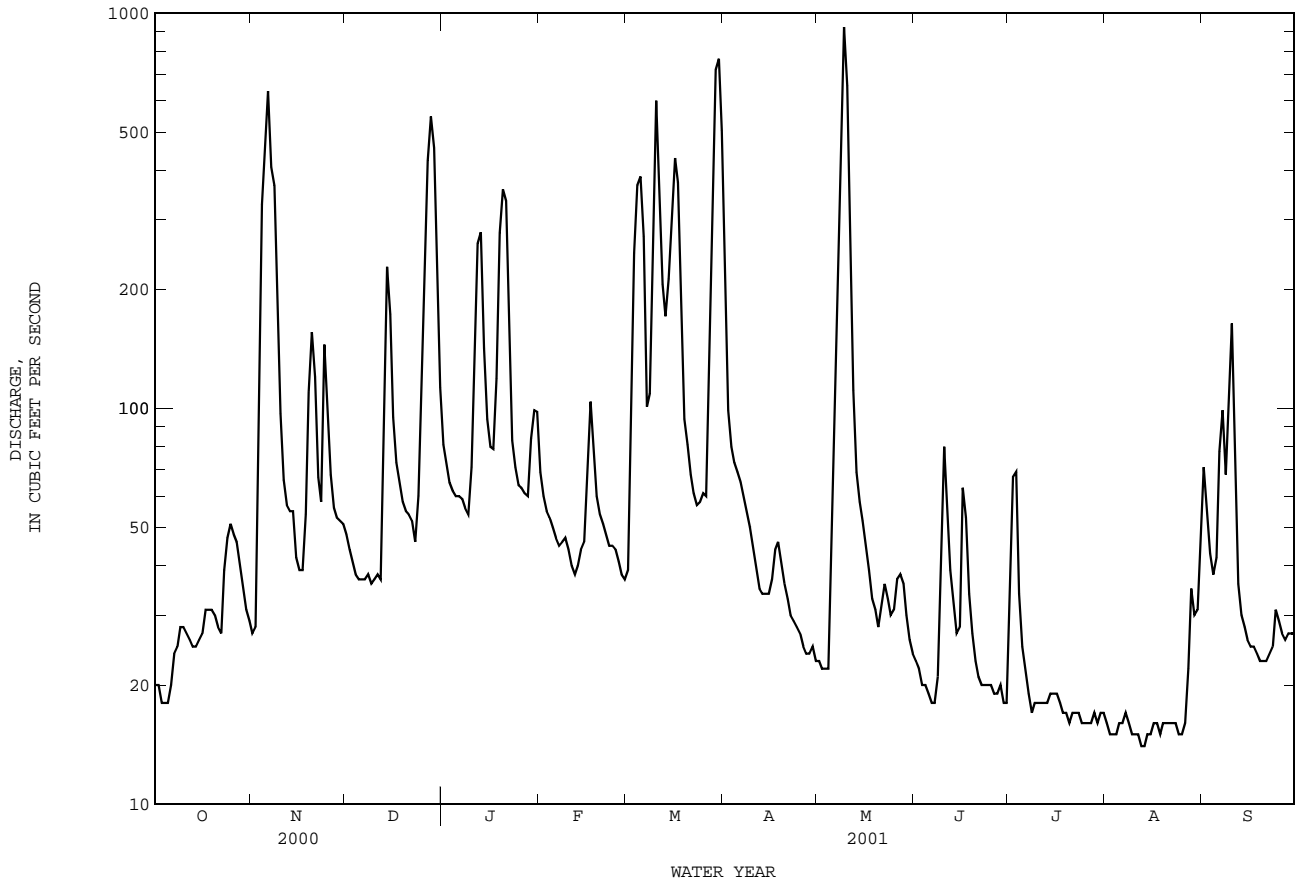
	MEAN	MAX	(WY)	MIN	(WY)
1962	42.2	503	1995	.000	1964
1963	54.2	562	1999	.023	1964
1964	79.3	651	1992	.77	1964
1965	71.7	418	1991	2.55	1990
1966	98.1	934	1992	3.65	1990
1967	81.2	276	1992	3.89	1972
1968	72.6	364	1976	1.00	1972
1969	119	656	1975	2.98	1984
1970	105	813	1987	.91	1971
1971	17.7	221	1968	.001	1967
1972	8.84	67.1	1974	.000	1962
1973	23.7	506	1974	.000	1963

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1962 - 2001

ANNUAL TOTAL	19213	30142	
ANNUAL MEAN	52.5	82.6	64.2
HIGHEST ANNUAL MEAN			245
LOWEST ANNUAL MEAN			3.93
HIGHEST DAILY MEAN	1660	May 4	9490
LOWEST DAILY MEAN	10	Jul 25	.00
ANNUAL SEVEN-DAY MINIMUM	10	Aug 9	.00
MAXIMUM PEAK FLOW			14000
MAXIMUM PEAK STAGE			9.81
ANNUAL RUNOFF (AC-FT)	38110	59790	46510
10 PERCENT EXCEEDS	76	213	77
50 PERCENT EXCEEDS	22	39	12
90 PERCENT EXCEEDS	13	17	.35

e Estimated

08109800 East Yegua Creek near Dime Box, TX--Continued



BRAZOS RIVER BASIN

08109900 Somerville Lake near Somerville, TX

LOCATION.--Lat 30°19'20", long 96°31'32", Burtleson County, Hydrologic Unit 12070102, in intake structure of Somerville Dam on Yegua Creek, at the southwest edge of the city limits of Somerville, and 20.0 mi upstream from mouth.

DRAINAGE AREA.--1,007 mi².

PERIOD OF RECORD.--Feb. 1966 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to current year. Prior to Oct. 1970, published as "Somerville Reservoir".

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

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 20,210 ft long, with a 4,715-foot-long dike and a 1,250-foot long uncontrolled spillway. Deliberate impoundment began Jan. 3, 1967, and the dam was completed Oct. 27, 1967. The spillway is an uncontrolled ogee weir 1,250 ft wide located near right end of dam. The low-flow outlet consists of one 10.0-foot-diameter conduit that is controlled by two 5.0- by 10.0-foot tractor-type gates. The dam is owned by the U.S. Army Corps of Engineers. The lake was designed for flood control and water conservation. Conservation pool storage is 155,062 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	280.0
Design flood.....	274.5
Crest of spillway.....	258.0
Top of conservation pool.....	238.0
Lowest gated outlet (invert of 10-foot conduit).....	206.0

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by Texas Water Development Board, was put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 547,600 acre-ft, Mar. 6, 1992, elevation, 259.60 ft; minimum, 88,800 acre-ft Oct. 5, 1984, elevation, 230.70 ft.

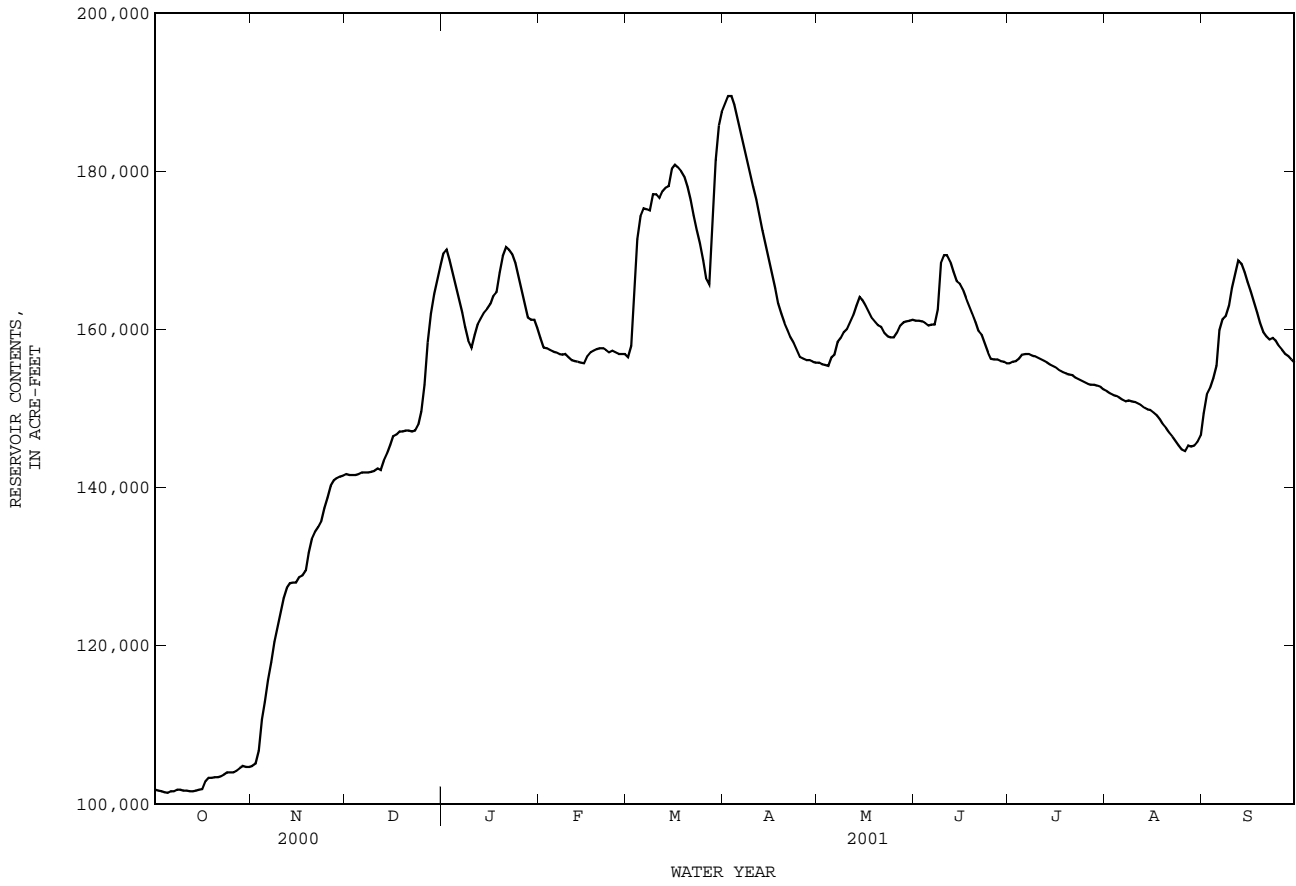
EXTREMES FOR CURRENT YEAR.--Maximum contents, 189,900 acre-ft, Apr. 3, elevation, 240.85 ft; minimum contents, 101,400 acre-ft, Oct. 4, 5, 6, elevation, 232.62 ft.

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

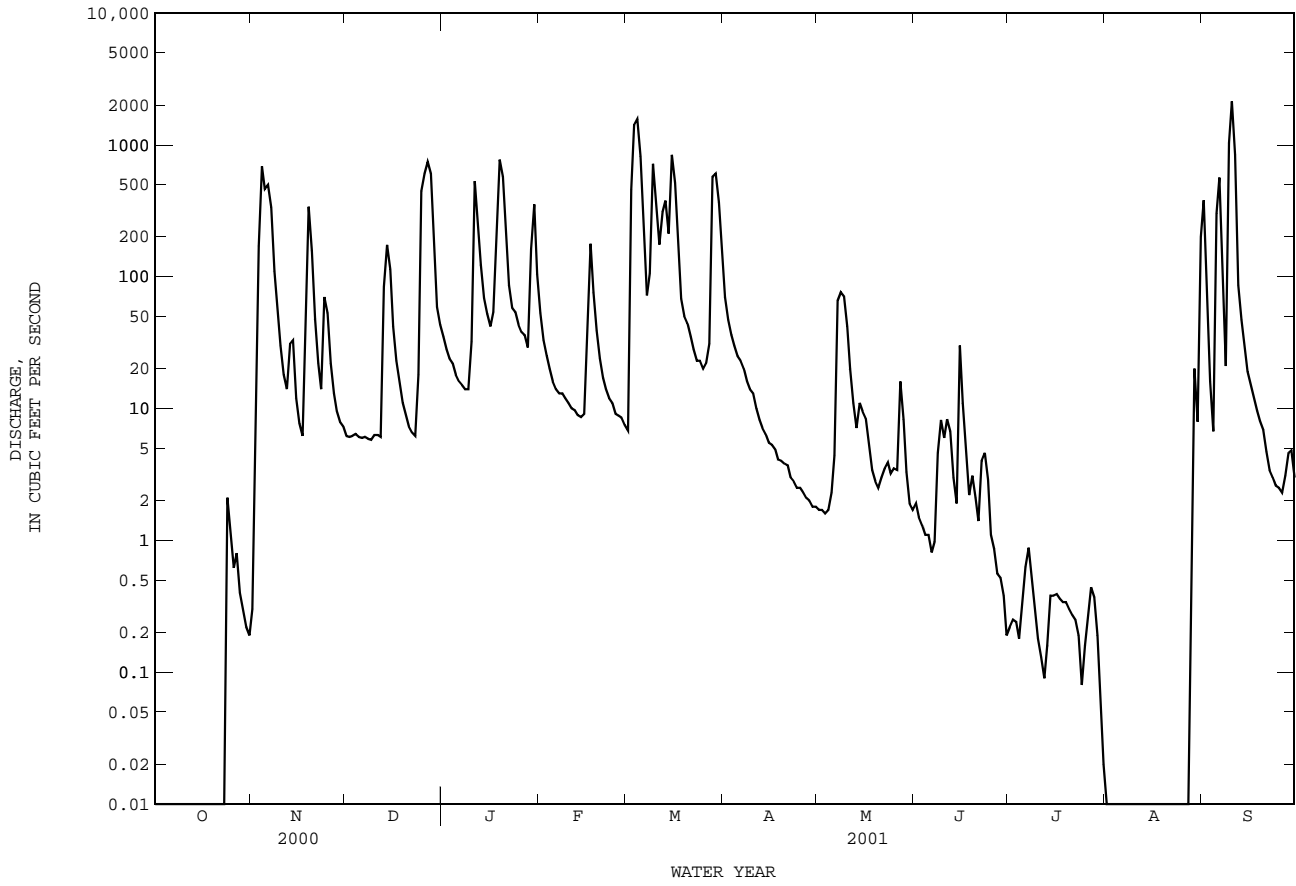
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101800	104800	141700	169600	158900	156500	188500	155800	161100	155700	152200	149400
2	101700	105100	141600	170100	157700	157900	189500	155600	161100	155900	151900	151800
3	101600	106700	141600	168800	157600	163900	189500	155500	161000	156000	151700	152600
4	101500	110700	141600	167100	157400	171400	188400	155400	160800	156300	151600	153800
5	101400	112900	141700	165400	157200	174300	186800	156500	160500	156800	151400	155400
6	101600	115700	141900	163700	157100	175300	185200	156800	160600	156900	151100	159900
7	101600	117900	141900	162100	156900	175200	183500	158400	160600	156900	150900	161300
8	101800	120500	141900	160300	156800	175000	181700	158900	162500	156700	151000	161700
9	101800	122400	142000	158600	156900	177100	179900	159700	168400	156600	150900	163000
10	101700	124200	142100	157700	156500	177100	178000	160100	169400	156400	150800	165200
11	101700	126000	142400	159300	156100	176600	176400	160900	169400	156200	150600	167000
12	101600	127300	142200	160600	156000	177500	174400	e161800	168600	156000	150400	168700
13	101600	127900	143400	161400	155900	177900	172500	e163000	167300	155800	150100	168300
14	101700	128000	144300	162100	155800	178100	170700	164100	166100	155500	149900	167200
15	101800	128000	145400	162600	155700	180300	168900	163700	165800	155300	149800	166000
16	101900	128700	146500	163200	156600	180800	167000	163000	165100	155100	149500	164800
17	102900	128900	146700	164200	157100	180500	165200	162200	164000	154800	149100	163400
18	103300	129500	147100	164700	157300	180000	163300	161400	163000	154600	148600	162100
19	103300	131700	147100	167200	157500	179300	162000	160900	162000	154400	148000	160800
20	103400	133500	147200	169300	157600	178000	160800	160500	160900	154300	147500	159700
21	103400	134400	147200	170400	157600	176300	159900	160300	159800	154200	146900	159100
22	103500	135000	147100	170100	157400	174400	159000	159500	159300	153900	146400	158700
23	103700	135700	147200	169500	157100	172500	158300	159100	158200	153700	145900	158900
24	104000	137400	148000	168400	157300	170800	157400	159000	157100	153500	145300	158600
25	104000	138700	149600	166600	157100	168700	156500	159000	156300	153300	144800	157900
26	104000	140200	153000	165000	156900	166500	156300	159600	156200	153100	144600	157400
27	104200	140900	158400	163300	156900	165700	156100	160500	156200	153000	145300	156900
28	104500	141200	162000	161500	156900	174100	156100	160900	156000	153000	145200	156600
29	104800	141400	164400	161200	---	181400	155900	161000	155900	152900	145300	156200
30	104700	141500	166000	161200	---	185800	155800	161100	155700	152700	145800	155800
31	104700	---	167900	160200	---	187500	---	161200	---	152400	146600	---
MEAN	102700	127200	147800	164400	157000	174700	170100	159900	161600	154900	148700	159900
MAX	104800	141500	167900	170400	158900	187500	189500	164100	169400	156900	152200	168700
MIN	101400	104800	141600	157700	155700	156500	155800	155400	155700	152400	144600	149400
(+)	232.99	236.76	239.08	238.43	238.15	240.66	238.05	238.52	238.05	237.75	237.23	238.06
(@)	+2900	+36800	+26400	-7700	-3300	+30600	-3700	+5400	-5500	-3300	-5800	+9200
CAL YR 2000	MAX 167900	MIN 101400	(@) +29100									
WTR YR 2001	MAX 189500	MIN 101400	(@) +54000									

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

08109900 Somerville Lake near Somerville, TX--Continued



08110100 Davidson Creek near Lyons, TX--Continued



BRAZOS RIVER BASIN

08110300 Lake Mexia near Mexia, TX

LOCATION.--Lat 31°38'37", long 96°34'43", Limestone County, Hydrologic Unit 12070103, 550 ft downstream from Cedar Creek, 610 ft upstream from spillway of dam on Navasota River, 1.0 mi upstream from Echo Dam, 1.6 mi upstream from Jacks Creek, 6.0 mi southwest of Mexia, and 180.0 mi upstream from mouth.

DRAINAGE AREA.--196 mi².

PERIOD OF RECORD.--July 1961 to Sept. 1986, Apr. 1999 to current year.

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

REMARKS.--No estimated daily contents. Records fair. The lake is formed by an earthfill dam, 1,645 ft long, including a 520-foot uncontrolled concrete ogge-type spillway near the center of dam. The dam was completed and deliberate impoundment of water began June 5, 1961. The dam is owned by the Bistone Municipal Water District. Conservation pool storage is 4,806 acre-ft. Data regarding the dam and lake are given in the following table:

	Elevation (feet)
Top of dam.....	462.3
Crest of spillway.....	448.3
Lowest gated outlet (invert).....	442.1

COOPERATION.--Capacity table was computed from data furnished by Texas Water Development Board from survey of May 1996. Diversions from lake for municipal use were furnished by the Bistone Municipal Water Supply District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 22,460 acre-ft May 11, 1979, elevation, 455.36 ft; minimum, 2,440 acre-ft, Jan. 15, 1964 (elevation, 445.48 ft).

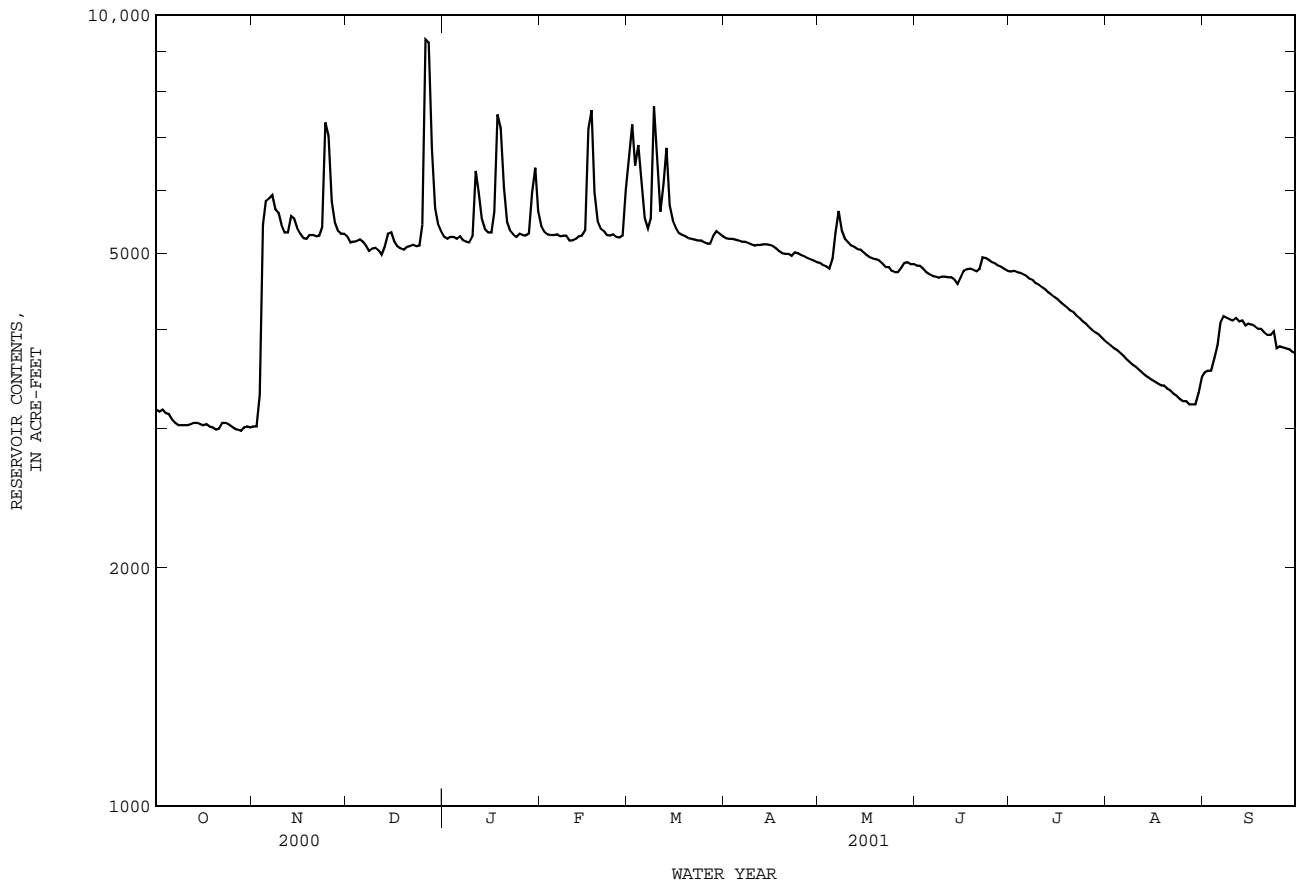
EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,360 acre-ft, Dec. 26, elevation, 451.74 ft; minimum contents, 2,950 acre-ft, Oct. 21, 28, 29, elevation, 446.24 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3170	3020	5250	5240	5410	6600	5220	4860	4820	4740	3850	3530
2	3150	3020	5160	5210	5320	7270	5210	4830	4820	4750	3820	3550
3	3170	3310	5170	5240	5280	6450	5210	4810	4780	4730	3790	3550
4	3140	5430	5180	5240	5270	6850	5200	4780	4730	4720	3770	3680
5	3130	5820	5200	5210	5270	6120	5190	4920	4700	4700	3740	3820
6	3080	5860	5170	5250	5280	5540	5170	5300	4680	4680	3710	4080
7	3050	5920	5110	5190	5250	5370	5170	5650	4670	4640	3670	4160
8	3030	5680	5030	5170	5260	5530	5150	5340	4650	4620	3640	4140
9	3030	5620	5070	5160	5260	7660	5130	5210	4670	4670	3610	4120
10	3030	5430	5080	5250	5190	6670	5110	5160	4670	4560	3590	4110
11	3030	5310	5040	6350	5190	5640	5120	5110	4660	4530	3560	4140
12	3040	5310	4980	5980	5210	6130	5120	5090	4660	4500	3530	4100
13	3050	5570	5100	5520	5250	6790	5130	5060	4630	4460	3500	4110
14	3050	5530	5290	5360	5260	5750	5130	5050	4570	4430	3480	4050
15	3040	5380	5310	5310	5340	5500	5120	5010	4660	4400	3460	4070
16	3030	5290	5180	5310	7180	5380	5100	4970	4750	4370	3440	4060
17	3040	5220	5100	5640	7580	5300	5070	4940	4770	4330	3420	4040
18	3020	5210	5070	7480	5970	5270	5030	4920	4780	4300	3400	4010
19	3010	5270	5050	7190	5490	5250	5000	4910	4760	4270	3400	4010
20	2990	5270	5090	6060	5370	5220	4990	4890	4740	4230	3370	3970
21	3000	5250	5100	5470	5330	5210	4990	4850	4770	4210	3350	3940
22	3050	5260	5120	5340	5270	5200	4960	4800	4940	4170	3320	3940
23	3050	5390	5100	5280	5260	5190	5010	4800	4930	4140	3300	3980
24	3040	7310	5110	5240	5280	5190	5000	4750	4900	4100	3270	3790
25	3020	7030	5430	5290	5240	5160	4970	4730	4870	4070	3250	3810
26	3000	5810	9310	5270	5230	5140	4950	4730	4850	4030	3250	3800
27	2990	5460	9230	5260	5260	5140	4930	4790	4820	4000	3220	3790
28	2980	5340	6770	5290	6020	5260	4910	4860	4800	3970	3220	3780
29	3010	5290	5700	5960	---	5330	4890	4870	4770	3950	3220	3750
30	3020	5290	5450	6410	---	5290	4870	4840	4750	3910	3330	3740
31	3010	---	5330	5650	---	5250	---	4840	---	3880	3480	---
MEAN	3050	5330	5490	5570	5480	5730	5070	4960	4750	4350	3480	3920
MAX	3170	7310	9310	7480	7580	7660	5220	5650	4940	4750	3850	4160
MIN	2980	3020	4980	5160	5190	5140	4870	4730	4570	3880	3220	3530
(+)	446.32	448.64	448.66	448.88	449.12	448.61	448.34	448.33	448.25	447.34	446.90	447.19
(@)	-80	+2280	+40	+320	+370	-770	-380	-30	-90	-870	-400	+260
CAL YR 2000	MAX 9310	MIN 2690	(@) +2670									
WTR YR 2001	MAX 9310	MIN 2980	(@) +660									

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

08110300 Lake Mexia near Mexia, TX--Continued



BRAZOS RIVER BASIN

08110325 Navasota River above Groesbeck, TX

LOCATION.--Lat 31°34'27", long 96°31'14", Limestone County, Hydrologic Unit 12070103, in city of Groesbeck at water supply pumping plant, 1.2 mi downstream from Springfield Lake, 3.7 mi north of Groesbeck, and 161.4 mi upstream from mouth.

DRAINAGE AREA.--239 mi².

PERIOD OF RECORD.--July 1975 to May 1978 (periodic gage-height and low-flow measurements only), June 1978 to current year. Water-quality records.--Chemical data: Nov. 1967 to June 1989.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 396.65 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges and those below 10 ft³/s, which are poor. Since installation of gage in 1975, at least 10% of contributing drainage area has been regulated. There are several diversions above station for irrigation, municipal supply, and oil field operation (total amount unknown). The city of Groesbeck diverts water from pool at gage for municipal use, and returns wastewater effluent into river downstream from gage. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1910, 26 ft in 1910 and 1944, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	33	78	147	1350	57	4.7	2.5	1.5	.00	.35
2	.00	.00	25	60	80	2080	46	4.8	2.3	1.6	.00	.26
3	.00	23	18	48	57	1570	41	4.2	1.8	1.1	.00	.23
4	.00	228	14	39	47	1680	35	4.2	1.9	.83	.00	1.4
5	.00	373	10	32	35	1060	30	11	2.0	.56	.00	1.4
6	.00	655	9.7	28	29	311	25	14	2.2	.40	.00	.66
7	.00	593	6.7	30	23	132	23	160	2.0	.18	.01	.16
8	.00	523	5.4	30	20	300	20	161	3.6	.04	.00	.10
9	.00	319	4.2	23	28	2670	17	81	3.1	.00	.00	.11
10	.00	153	4.1	28	21	1970	15	53	2.3	.00	.00	.08
11	.00	82	7.1	737	18	512	15	38	2.6	.00	.00	.03
12	.00	67	4.4	818	17	870	14	28	2.3	.00	.00	.01
13	.00	126	7.3	280	17	1620	14	21	2.2	.00	.00	.00
14	.00	196	24	132	17	695	13	16	2.0	.00	.00	.00
15	.00	109	54	81	22	290	13	11	5.5	.00	.00	.00
16	.10	79	76	66	2120	143	12	8.0	3.0	.00	.00	.00
17	.03	58	46	391	3010	95	11	5.7	2.7	.00	.00	.00
18	.00	46	41	2480	977	76	7.4	4.7	2.5	.00	.00	.00
19	.00	51	27	2460	252	67	5.8	3.9	1.8	.00	.00	.00
20	.00	49	19	953	116	55	5.5	3.5	1.5	.00	.01	.00
21	.00	43	15	e355	84	47	5.5	5.2	2.3	.00	.00	.00
22	.00	37	10	125	63	40	5.2	3.9	2.9	.00	.00	.00
23	.00	37	8.6	80	47	35	8.5	2.7	2.1	.00	.00	.00
24	.00	2140	8.8	64	43	33	8.0	2.4	2.0	.01	.00	.00
25	.00	2000	151	52	40	27	6.8	2.4	1.7	.00	.00	.00
26	.00	648	5890	44	32	23	6.1	2.9	1.7	.00	.00	.00
27	.00	181	7190	38	29	20	4.9	3.1	1.7	.00	.00	.00
28	.00	86	2190	32	317	37	3.9	3.6	1.4	.00	.00	.08
29	.00	63	544	456	---	60	3.9	3.0	1.5	.00	.00	.65
30	.00	44	202	1100	---	73	4.4	3.3	1.3	.00	.09	.52
31	.00	---	108	438	---	69	---	2.8	---	.00	.35	---
TOTAL	0.13	9009.00	16753.3	11578	7708	18010	476.9	673.0	68.4	6.22	0.46	6.04
MEAN	.004	300	540	373	275	581	15.9	21.7	2.28	.20	.015	.20
MAX	.10	2140	7190	2480	3010	2670	57	161	5.5	1.6	.35	1.4
MIN	.00	.00	4.1	23	17	20	3.9	2.4	1.3	.00	.00	.00
AC-FT	.3	17870	33230	22960	15290	35720	946	1330	136	12	.9	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

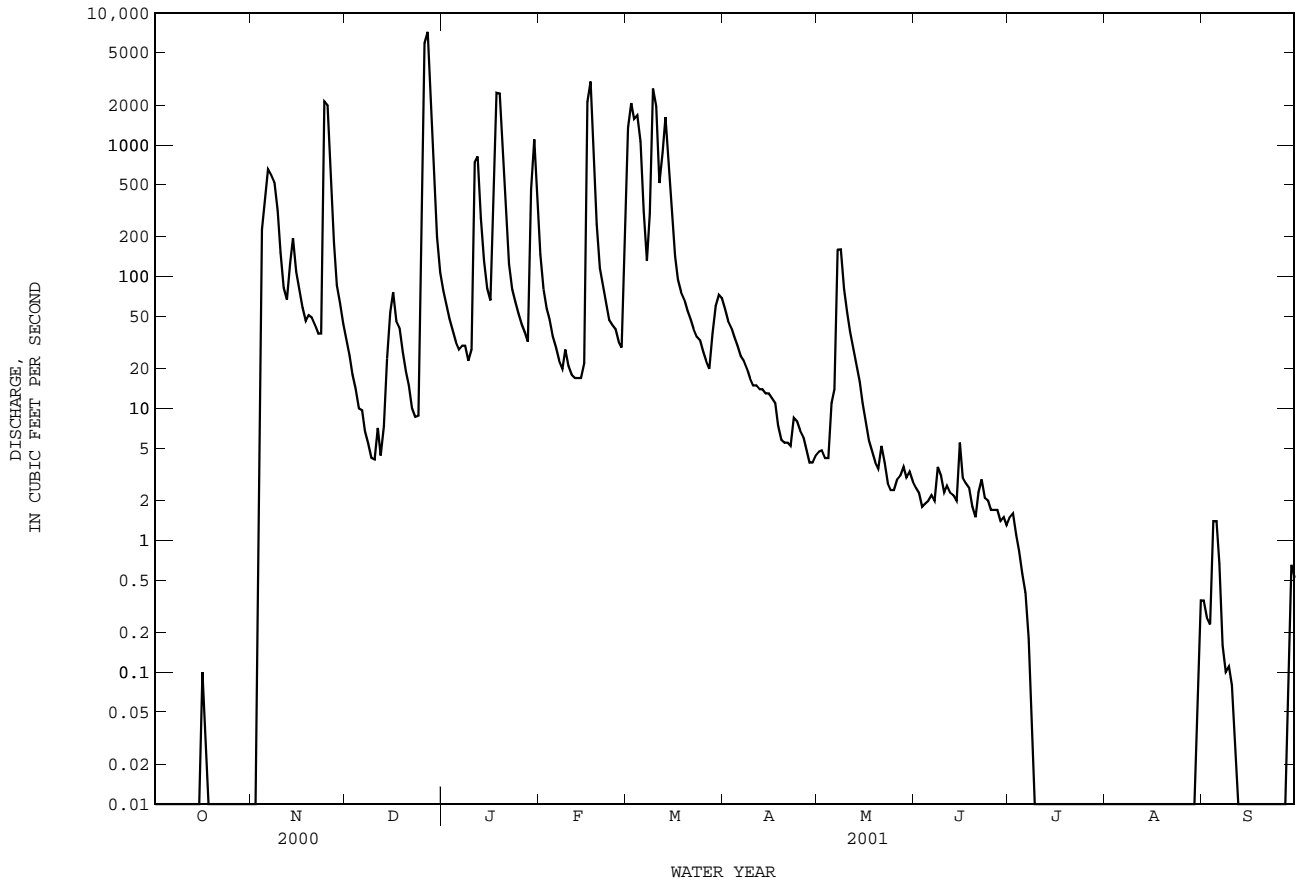
	MEAN	MAX	(WY)	MIN	(WY)
	41.4	347	1982	.000	1993
	63.6	450	1986	.000	1996
	199	1154	1992	.000	2000
	138	806	1998	.000	2000
	236	909	1986	.000	1996
	178	1109	1990	.000	1996
	94.3	857	1997	.000	1996
	252	1384	1979	.000	1996
	119	648	2000	.000	1996
	5.13	51.4	1981	.000	1998
	29.3	570	1995	.000	1994
	.59	5.24	1979	.000	1993

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1978 - 2001

ANNUAL TOTAL	47427.60	64289.45	
ANNUAL MEAN	130	176	113
HIGHEST ANNUAL MEAN			270
LOWEST ANNUAL MEAN			.011
HIGHEST DAILY MEAN	7190	7190	17300
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
MAXIMUM PEAK FLOW		9460	27200
MAXIMUM PEAK STAGE		10.49	15.06
ANNUAL RUNOFF (AC-FT)	94070	127500	82030
10 PERCENT EXCEEDS	149	318	102
50 PERCENT EXCEEDS	.00	5.5	1.1
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

08110325 Navasota River above Groesbeck, TX--Continued



BRAZOS RIVER BASIN

08110430 Big Creek near Freestone, TX

LOCATION.--Lat 31°30'24", long 96°19'28", Limestone County, Hydrologic Unit 12070103, 12 ft to left and 25 ft downstream from left end of bridge on State Highway 164, 5.1 mi southwest of Freestone, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--97.2 mi².

PERIOD OF RECORD.--July 1975 to June 1978 (periodic gage-height and low-flow measurements only), July 1978 to current year.

REVISED RECORDS.--WDR TX-92-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 362.94 ft above sea level. Apr. 25, 1985, to Aug. 17, 1987, at site 62 ft downstream at same datum. 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.--Maximum stage since at least 1950, 19 ft in Apr. 1957, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	11	34	65	433	33	3.0	2.4	10	.00	3.3
2	.00	9.4	8.8	26	38	735	26	2.8	1.8	18	.00	38
3	.00	211	7.8	21	29	688	23	2.7	1.3	6.7	.00	18
4	.00	931	6.9	18	24	727	22	2.7	.97	2.1	.00	55
5	.00	516	6.1	17	22	477	20	5.0	.69	1.1	.00	121
6	.00	679	5.6	15	19	147	18	27	.41	.51	.00	19
7	.00	560	5.5	14	19	67	17	21	.33	.22	.00	8.7
8	.00	114	5.8	12	19	132	15	11	12	.13	.00	4.4
9	.00	183	5.8	11	50	626	14	7.8	20	.12	.00	5.3
10	.00	54	5.7	28	42	603	12	11	7.7	.06	.00	10
11	.00	28	5.7	263	28	223	12	13	4.1	.06	.00	3.0
12	.00	31	5.4	296	26	229	12	6.8	2.2	.04	.00	1.2
13	.00	74	57	87	30	792	12	17	1.4	.02	.00	.49
14	.00	41	105	50	33	412	12	8.3	.83	.02	.00	.22
15	.00	23	42	38	33	169	11	4.2	184	.01	.00	.10
16	.00	17	21	27	529	96	9.1	2.7	187	.00	.00	.05
17	.00	36	14	212	1070	53	7.6	2.1	29	.00	.00	.03
18	.00	31	9.9	970	441	38	6.2	1.7	10	.02	.00	.15
19	.00	133	8.1	844	120	32	5.8	1.5	6.0	.02	.00	.13
20	.00	133	7.3	479	59	28	5.8	1.4	3.8	.02	.00	.06
21	.00	38	6.3	153	44	25	6.1	1.4	2.6	.01	.00	.04
22	.00	18	6.0	62	35	23	6.0	1.3	2.1	.01	.00	.03
23	.00	16	5.8	43	29	21	5.4	1.2	2.1	.01	.00	.02
24	.00	224	5.8	34	27	20	5.0	.97	1.6	.01	.00	.02
25	.00	307	89	29	30	22	5.6	.79	1.2	.01	.00	.02
26	.00	136	839	27	26	21	5.6	.82	.83	.00	.00	.02
27	.00	45	2780	26	23	19	4.8	.93	.54	.00	.00	.01
28	.00	19	1200	27	289	140	4.1	14	.38	.00	.00	.00
29	.00	17	428	90	---	149	3.7	38	.24	.00	.00	.00
30	.00	16	121	400	---	70	3.3	11	.23	.00	1.2	.00
31	.00	---	50	262	---	45	---	4.3	---	.00	.14	---
TOTAL	0.00	4640.41	5875.3	4615	3199	7262	343.1	227.41	487.75	39.20	1.34	288.29
MEAN	.000	155	190	149	114	234	11.4	7.34	16.3	1.26	.043	9.61
MAX	.00	931	2780	970	1070	792	33	38	187	18	1.2	121
MIN	.00	.01	5.4	11	19	19	3.3	.79	.23	.00	.00	.00
AC-FT	.00	9200	11650	9150	6350	14400	681	451	967	78	2.7	572

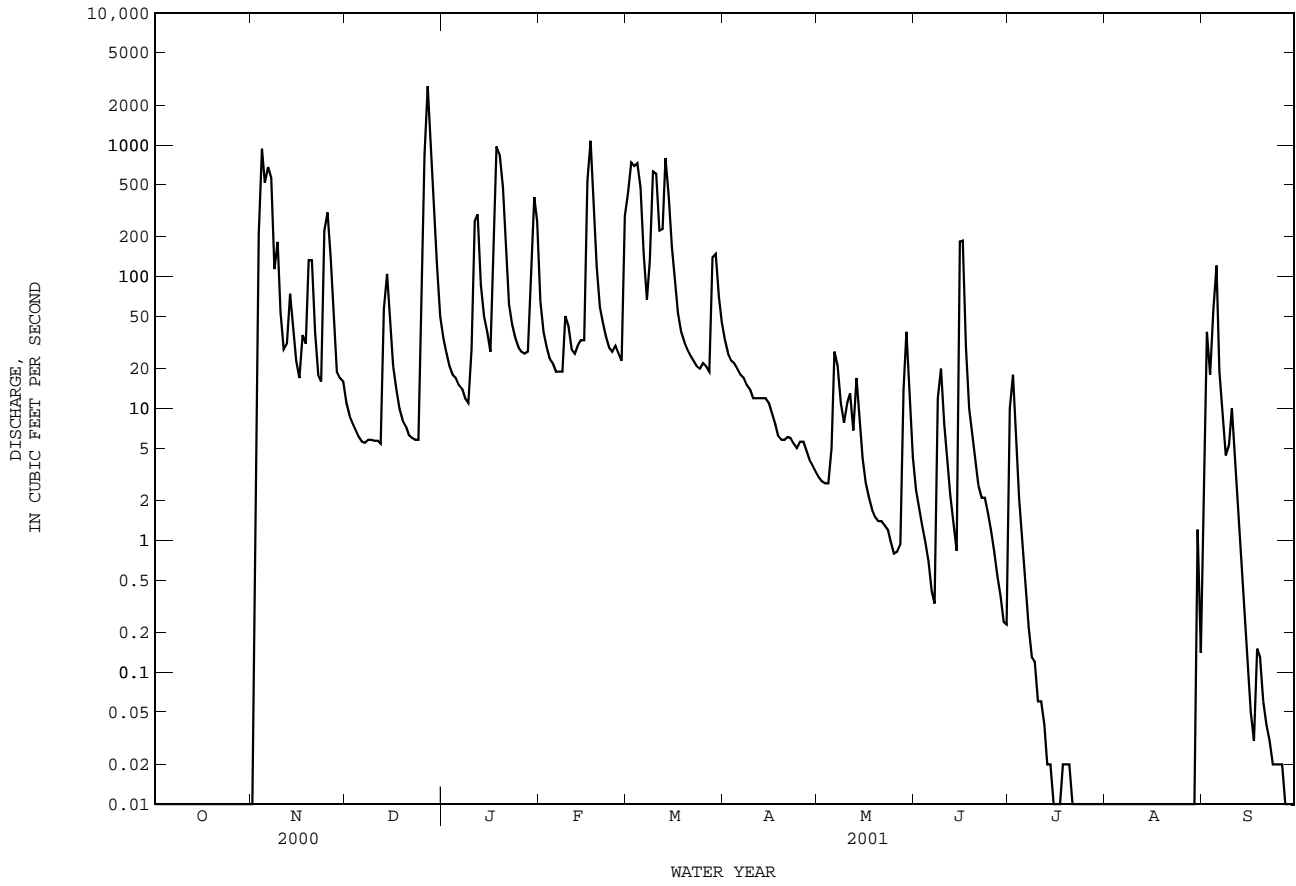
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	32.5	34.8	91.1	78.5	98.4	77.9	49.3	84.2	42.4	4.70	2.31	5.39												
MAX	301	155	609	329	307	234	348	335	159	62.0	18.5	44.0												
(WY)	1999	2001	1992	1998	1997	2001	1997	1990	1989	1981	1995	1998												
MIN	.000	.000	.056	.20	2.64	4.50	3.31	.26	.000	.000	.000	.000												
(WY)	1990	1996	1981	1981	2000	1986	1984	1984	1996	1996	1984	1984												

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1978 - 2001

ANNUAL TOTAL	14086.68	26978.80	
ANNUAL MEAN	38.5	73.9	50.0
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			3.46
HIGHEST DAILY MEAN	2780	Dec 27	8390
LOWEST DAILY MEAN	.00	Jul 15	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 15	.00
MAXIMUM PEAK FLOW			17500
MAXIMUM PEAK STAGE			16.33
ANNUAL RUNOFF (AC-FT)	27940	53510	36210
10 PERCENT EXCEEDS	60	183	81
50 PERCENT EXCEEDS	1.9	6.8	3.1
90 PERCENT EXCEEDS	.00	.00	.00

08110430 Big Creek near Freestone, TX--Continued



BRAZOS RIVER BASIN

08110470 Lake Limestone near Marquez, TX

LOCATION.--Lat 31°19'30", long 96°19'08", Leon County, Hydrologic Unit 12070103, in left end bypass pier of Sterling C. Robertson Dam on the Navasota River, 7.5 mi northwest of Marquez, and 124 mi upstream from mouth.

DRAINAGE AREA.--675 mi².

PERIOD OF RECORD.--Nov. 1978 to current year.

Water-quality records.--Chemical data: Jan. 1980 to Sept. 1997. Biochemical data: Jan. 1980 to Sept. 1997.

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

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 11,395 ft long, including the spillway. The lake was built for water conservation. The dam is owned by the Brazos River Authority. Deliberate impoundment began on Oct. 16, 1978. The spillway is an uncontrolled broad-crested weir 3,000 ft long located near left end of dam. The spillway for normal flood releases is a gated concrete gravity structure with an ogee weir section and stilling basin located near center of dam. It is controlled by five 40- by 28-foot tainter gates. There are two 4- by 8-foot slide gates located in each of the two center piers of the spillway that discharge into the stilling basin. These gates can also be opened during extreme floods. A low-flow outlet, consisting of a 10-inch-diameter cast iron pipe, is located in the left end of pier. In addition, there are two 36-inch (outside diameter) steel cylinder pipes located in the right end pier for water supply releases. The lowest invert for low flow and water supply releases is at elevation 325.50 ft. The city of Mexia releases various amounts of wastewater effluent into stream above lake. Conservation pool storage is 215,748 acre-ft. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam.....	380.0
Design flood.....	370.0
Crest of spillway.....	369.6
Top of gates.....	365.0
Top of conservation pool.....	363.0
Concrete gated spillway.....	337.0
Lowest gated outlet (invert).....	322.0

COOPERATION.--A new capacity table, provided by the Texas Water Development Board, was put into use Oct. 1, 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 245,000 acre-ft, Dec. 21, 1991, elevation, 364.39 ft; minimum contents after initial filling, 138,400 acre-ft, Nov. 23, 1996, elevation, 356.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 224,900 acre-ft, Dec. 27, elevation, 363.66 ft; minimum contents, 179,100 acre-ft, Oct. 28, 29, 31, Nov. 1, elevation, 360.07 ft.

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

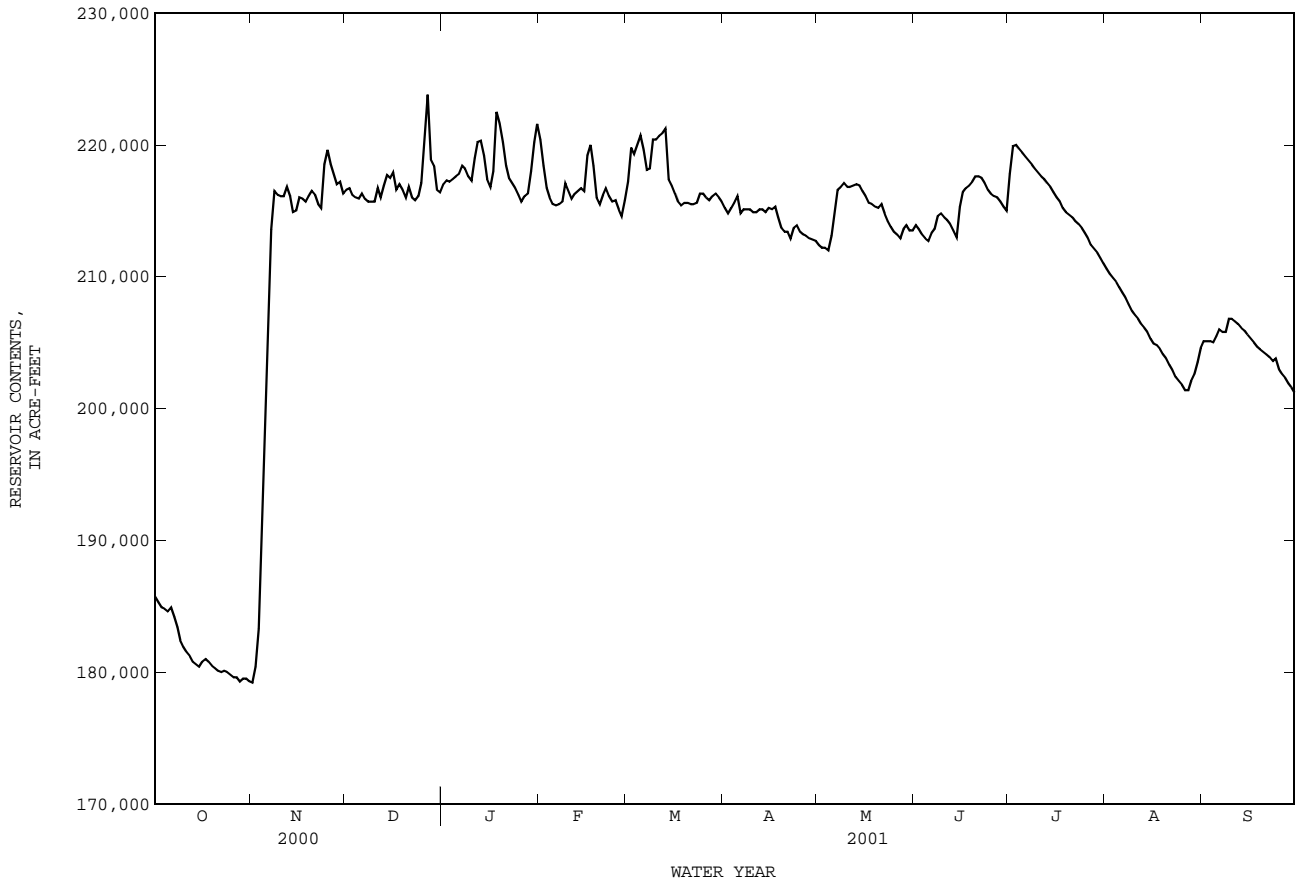
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185700	179200	216600	217000	220400	217200	215200	212400	213900	217800	210600	205100
2	185300	180400	216700	217300	218400	219800	214800	212200	213600	219900	210200	205100
3	184900	183300	216200	217200	216700	219300	215200	212200	213200	220000	209900	205100
4	184800	192200	216000	217400	216000	220000	215600	212000	212900	219700	209600	205000
5	184600	199000	215900	217600	215500	220700	216100	213100	212700	219400	209200	205500
6	184900	206700	216300	217800	215400	219600	214800	214700	213300	219100	208800	206000
7	184200	213600	215900	218400	215500	218100	215100	216600	213600	218800	208400	205800
8	183400	216500	215700	218200	215700	218200	215100	216800	214600	218500	207900	205800
9	182400	216200	215700	217600	217100	220400	215100	217100	214800	218200	207400	206800
10	181900	216100	215700	217300	216500	220400	214900	216800	214500	217900	207100	206800
11	181500	216100	216700	219000	215900	220700	214900	216800	214300	217600	206800	206600
12	181200	216800	216000	220200	216300	220900	215100	216900	214000	217400	206400	206400
13	180800	216100	216900	220300	216500	221200	215100	217000	213500	217100	206100	206100
14	180600	214900	217700	219200	216700	217400	214900	216900	213000	216800	205800	205900
15	180400	215000	217500	217400	216500	216900	215200	216500	215300	216400	205300	205600
16	180800	216000	217900	216800	219200	216300	215100	216100	216400	216000	204900	205300
17	181000	215900	216600	218000	220000	215700	215300	215600	216700	215700	204800	205000
18	180800	215700	217000	222500	218400	215400	214500	215500	e216900	215200	204500	204700
19	180500	216100	216600	221600	216000	215600	213700	215300	e217200	214900	204100	204500
20	180300	216500	216000	220200	215500	215600	213400	215200	e217600	214700	203800	204300
21	180100	216200	216800	218400	216200	215500	213400	215500	217600	214500	203300	204100
22	180000	215500	216000	217500	216700	215500	212900	214800	217500	214200	202900	203900
23	180100	215200	215800	217100	216100	215600	213700	214200	217100	214000	202400	203600
24	180000	218500	216100	216700	215700	216300	213900	213800	216600	213700	202100	203800
25	179800	219600	217100	216200	215800	216300	213400	213400	216300	213300	201800	203000
26	179600	218500	220800	215700	215100	216000	213200	213200	216100	212900	201400	202600
27	179600	217700	223800	216100	214600	215800	213100	212900	216000	212400	201400	202300
28	179300	217000	218900	216300	215800	216100	212900	213600	215700	212100	202100	201900
29	179500	217200	218400	218000	---	216300	212800	213900	215300	211800	202600	201600
30	179500	216300	216600	220200	---	216000	212700	213500	215000	211400	203500	201200
31	179300	---	216400	221600	---	215700	---	213500	---	211000	204600	---
MAX	185700	219600	223800	222500	220400	221200	216100	217100	217600	220000	210600	206800
MIN	179300	179200	215700	215700	214600	215400	212700	212000	212700	211000	201400	201200
(+)	360.09	363.04	363.05	363.43	363.01	363.00	362.77	362.83	362.94	362.64	362.15	361.88
(@)	-6900	+37000	+100	+5200	-5800	-100	-3000	+800	+1500	-4000	-6400	-3400
CAL YR 2000	MAX 223800	MIN 171300	(@)	+42700								
WTR YR 2001	MAX 223800	MIN 179200	(@)	+15000								

e Estimated

(+) Elevation, in feet, at end of month.

(@) Change in contents, in acre-feet.

08110470 Lake Limestone near Marquez, TX--Continued



BRAZOS RIVER BASIN

08110500 Navasota River near Easterly, TX

LOCATION.--Lat 31°10'12", long 96°17'51", Leon-Robertson County line, Hydrologic Unit 12070103, at left downstream end of bridge on U.S. Highway 79, 1.0 mi upstream from Missouri Pacific Railroad Co. bridge, 7.0 mi northeast of Easterly, and 105.7 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

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

Water-quality records.--Chemical data: Dec. 1941 to Sept. 1947, Feb. 1966 to Aug. 1985. Sediment data: Oct. 1968 to Sept. 1973.

REVISED RECORDS.--WSP 898: 1924, 1926-27, 1928(M), 1929-30, 1931(M). WSP 1512: 1932(M), 1936. WDR TX-76-2: Drainage area. WDR TX- 78-2: 1974(M), 1977.

GAGE.--Water-stage recorder. Datum of gage is 271.46 ft above sea level. Prior to June 11, 1932, nonrecording gage at railroad bridge 1.0 mi downstream at 19.86-foot higher datum. June 11, 1932, to Sept. 30, 1978, water-stage recorder 46 ft upstream at 5.00-foot higher datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1961, at least 10% of contributing drainage area has been regulated. There are numerous diversions above station for irrigation, municipal supply, and oil field operation.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-60), 406 ft³/s, 294,100 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-60).--Maximum discharge, 60,300 ft³/s May 2, 1944 (gage height, 27.13 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1845, 29 ft in June 1899, from information by local residents (discharge, 90,000 ft³/s), from rating curve extended above 60,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	9.6	340	378	2180	452	405	16	26	43	9.1	80
2	61	26	91	155	1500	1720	372	16	28	496	9.0	46
3	61	77	61	122	1130	4320	125	15	21	597	8.8	22
4	61	177	48	108	593	8230	59	16	18	206	8.7	14
5	61	375	40	102	407	5340	50	69	18	33	8.6	26
6	61	711	37	100	160	4640	46	1290	18	21	8.4	48
7	61	894	37	96	101	3000	42	2990	23	17	8.2	66
8	62	1480	36	92	94	1330	38	1810	55	15	8.2	50
9	62	1930	34	328	106	2320	34	405	117	14	8.0	42
10	62	1780	33	432	514	5360	33	104	159	13	7.6	37
11	62	527	33	1080	309	6690	31	112	39	12	7.3	25
12	62	82	41	1450	122	3710	29	65	24	12	7.1	16
13	61	684	349	1680	114	3280	28	50	20	11	7.0	12
14	62	1160	560	1440	117	5340	28	41	18	11	13	11
15	63	280	495	1330	397	5700	27	37	21	11	44	9.9
16	67	68	512	922	837	2750	26	33	154	10	36	9.7
17	66	223	468	729	2870	923	25	32	174	10	22	9.4
18	67	404	258	1700	7350	448	23	30	52	9.6	19	9.2
19	65	601	72	6890	6590	166	24	29	28	9.2	19	9.0
20	66	667	47	8960	2940	94	23	28	21	9.0	19	9.1
21	51	587	39	5850	530	79	23	27	19	8.8	19	9.4
22	15	425	38	3140	121	71	23	27	18	8.6	19	9.2
23	11	372	35	1150	95	65	22	26	41	8.5	19	9.2
24	10	867	33	571	353	60	21	23	30	8.5	18	9.2
25	9.8	2110	74	530	396	56	21	22	25	8.7	18	9.6
26	9.1	3680	899	494	389	51	22	22	20	9.5	17	10
27	9.7	3700	8400	211	368	51	21	22	17	9.6	19	9.2
28	9.5	1560	21300	146	218	290	19	24	16	9.8	99	9.2
29	9.4	1070	10200	289	---	470	18	32	15	9.8	187	9.2
30	9.4	843	5080	1210	---	446	16	27	18	9.6	79	9.1
31	9.4	---	2190	2080	---	428	---	22	---	9.4	95	---
TOTAL	1407.3	27369.6	51880	43765	30901	67880	1674	7462	1253	1660.6	867.0	644.6
MEAN	45.4	912	1674	1412	1104	2190	55.8	241	41.8	53.6	28.0	21.5
MAX	67	3700	21300	8960	7350	8230	405	2990	174	597	187	80
MIN	9.1	9.6	33	92	94	51	16	15	15	8.5	7.0	9.0
AC-FT	2790	54290	102900	86810	61290	134600	3320	14800	2490	3290	1720	1280

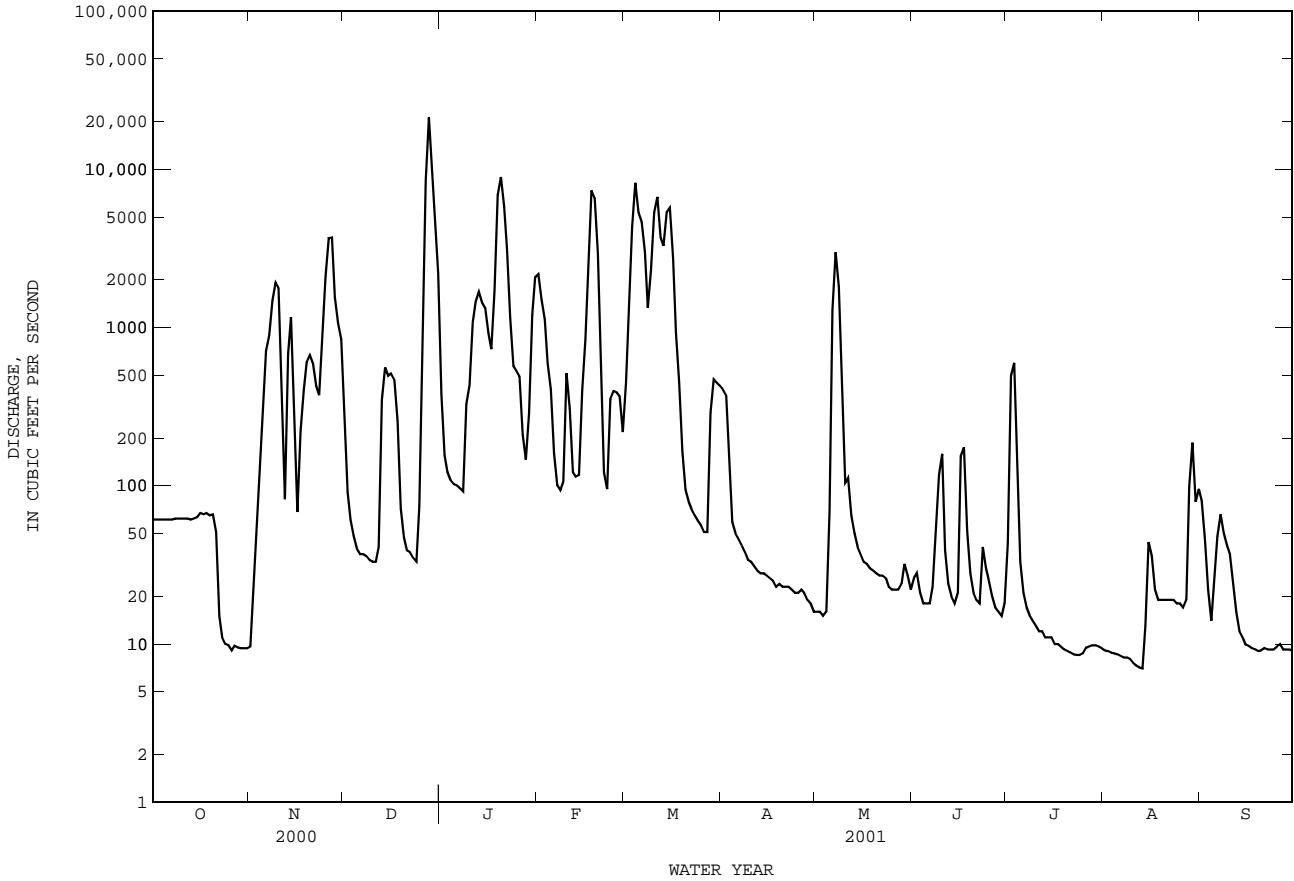
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001z, BY WATER YEAR (WY)

	226	309	659	624	721	630	606	853	473	65.8	67.5	108
MEAN	226	309	659	624	721	630	606	853	473	65.8	67.5	108
MAX	2427	4059	5244	2974	3322	2386	3761	5195	2794	474	1032	1614
(WY)	1974	1975	1992	1961	1992	1993	1966	1965	1973	1961	1995	1974
MIN	1.20	1.73	4.63	9.52	13.9	11.3	8.36	6.88	1.88	.37	.81	1.20
(WY)	1964	1964	1964	1964	1996	1996	1972	1972	1971	1964	1963	1972

08110500 Navasota River near Easterly, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001z	
ANNUAL TOTAL	104984.8		236764.1		444	
ANNUAL MEAN	287		649		1172	
HIGHEST ANNUAL MEAN					15.4	
LOWEST ANNUAL MEAN					1963	
HIGHEST DAILY MEAN	21300	Dec 28	21300	Dec 28	57400	Dec 22 1991
LOWEST DAILY MEAN	8.0	Sep 6	7.0	Aug 13	.19	Aug 11 1980
ANNUAL SEVEN-DAY MINIMUM	8.1	Sep 1	7.6	Aug 7	.26	Jul 12 1964
MAXIMUM PEAK FLOW			22800	Dec 28	61800	Dec 22 1991
MAXIMUM PEAK STAGE			23.96	Dec 28	27.22	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	208200		469600		321700	
10 PERCENT EXCEEDS	476		1710		905	
50 PERCENT EXCEEDS	18		51		29	
90 PERCENT EXCEEDS	8.9		9.4		3.2	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08110800 Navasota River at OSR near Bryan, TX

LOCATION.--Lat 30°58'25", long 96°14'29", Robertson-Leon-Brazos-Madison county intersection, Hydrologic Unit 12070103, on right upstream end of bridge on Old San Antonio Road (OSR), 9.3 miles southwest of Normangee, 13 miles northeast of Wheelock, and 22 miles northeast of Bryan.

DRAINAGE AREA.--1,287 mi².

PERIOD OF RECORD.--Apr. 1997 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area. TX-96-2: 1996 (M).

GAGE.--Water-stage recorder. Datum of gage is 245 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in Apr. 1997, at least 10% of contributing drainage area has been regulated. There are numerous diversions above station for irrigation, municipal supply and oil field operations.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	13	1720	2080	1680	372	696	52	66	40	19	181
2	63	17	1060	1110	2070	660	610	50	91	70	18	184
3	63	35	443	758	2160	1490	528	49	97	463	17	129
4	63	172	211	396	1800	2820	314	48	72	714	16	83
5	62	300	138	261	1210	6330	191	63	56	474	16	60
6	62	454	106	201	709	6840	161	717	50	154	16	62
7	62	730	91	167	366	5680	144	2070	57	84	17	109
8	62	1030	85	147	217	4680	131	3830	125	64	18	110
9	62	1310	81	134	180	3510	121	4690	348	52	16	170
10	62	1660	77	290	189	3030	113	2950	433	47	15	168
11	62	1840	75	642	446	4190	106	1200	461	41	14	150
12	63	1390	72	1210	402	6400	102	546	236	37	13	104
13	63	582	146	1600	235	5790	99	306	125	34	12	67
14	62	728	547	1810	201	4610	98	206	92	32	11	48
15	62	1210	891	1850	201	4730	96	154	85	30	11	38
16	67	754	810	1770	477	5950	91	122	100	29	31	32
17	70	241	671	1550	1040	5210	87	105	199	28	57	29
18	70	243	563	1400	1730	3170	82	89	244	27	48	27
19	68	532	369	1930	3930	1550	76	80	139	26	38	24
20	67	785	176	3610	6850	733	73	75	90	24	35	23
21	66	895	117	8570	5390	403	72	72	70	23	34	21
22	64	777	97	7510	2850	277	71	67	62	21	33	20
23	44	572	88	5290	1000	220	71	59	57	20	32	e20
24	25	536	90	3300	459	184	72	57	60	19	32	20
25	17	898	130	1740	492	163	71	54	69	18	32	21
26	14	1630	272	1040	535	149	67	50	61	17	31	21
27	13	2330	914	783	522	148	63	48	49	17	32	20
28	14	3620	2400	507	479	526	61	50	44	19	35	20
29	13	3580	14900	412	---	869	58	58	41	20	106	18
30	13	2340	11800	632	---	975	55	66	39	21	295	17
31	13	---	4300	1200	---	838	---	68	---	20	182	---
TOTAL	1574	31204	43440	53900	37820	82497	4580	18051	3718	2685	1282	1996
MEAN	50.8	1040	1401	1739	1351	2661	153	582	124	86.6	41.4	66.5
MAX	70	3620	14900	8570	6850	6840	696	4690	461	714	295	184
MIN	13	13	72	134	180	148	55	48	39	17	11	17
AC-FT	3120	61890	86160	106900	75020	163600	9080	35800	7370	5330	2540	3960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

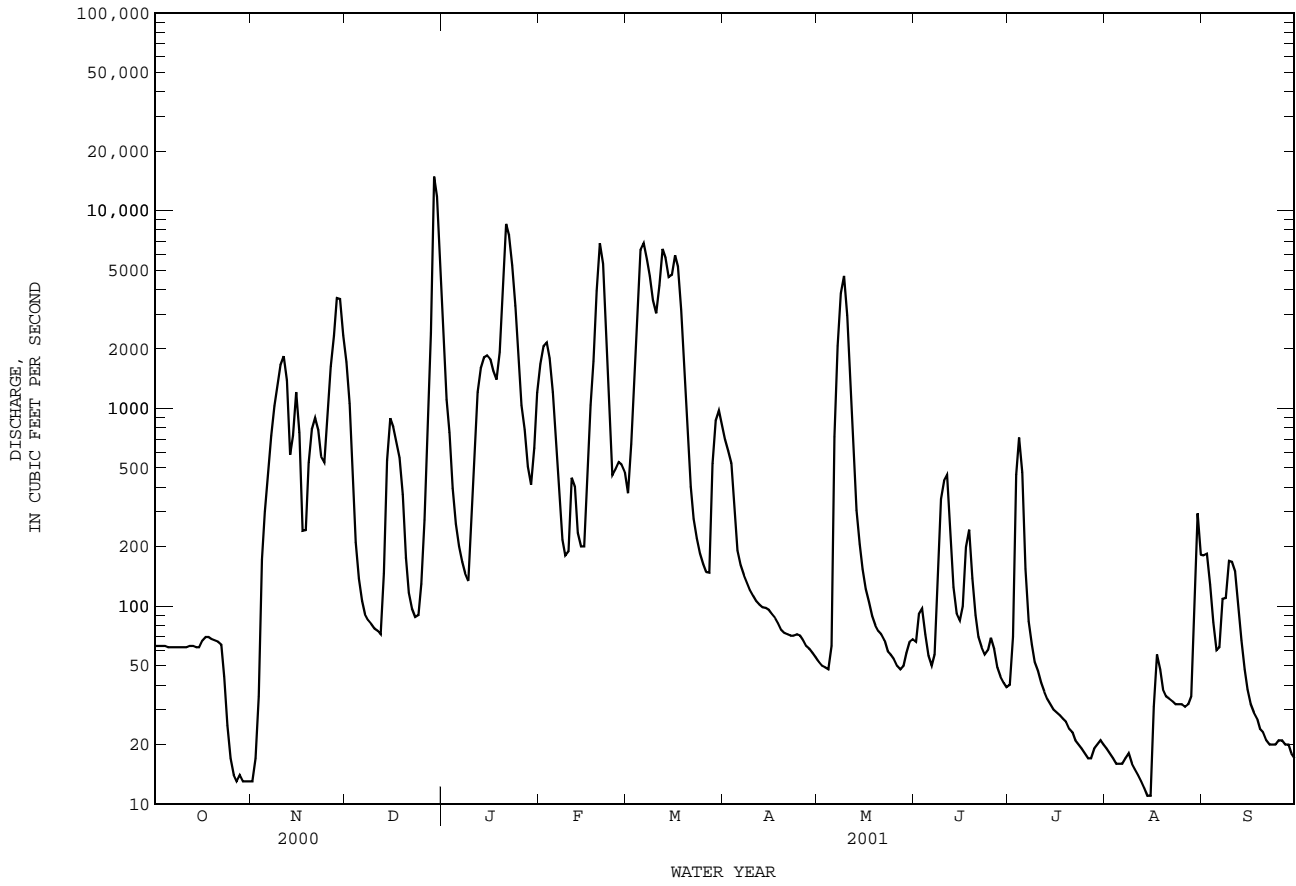
	1997	1998	1999	2000	2001
MEAN	675	761	970	1726	1120
MAX	2596	1927	2141	2950	1629
(WY)	1999	1999	1999	1998	1999
MIN	24.3	33.1	22.9	38.3	33.9
(WY)	1998	1998	2000	2000	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

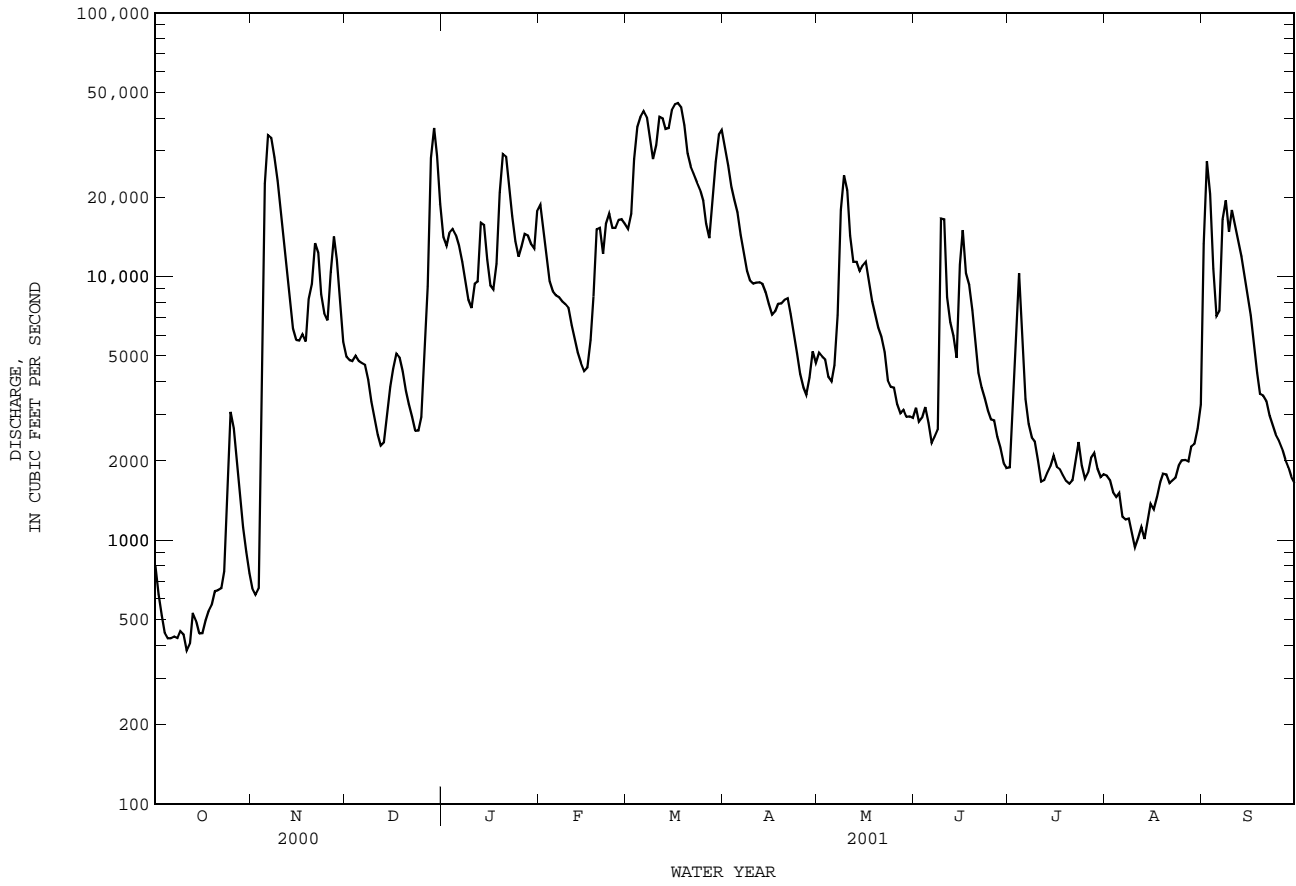
ANNUAL TOTAL	112053.2	282747	
ANNUAL MEAN	306	775	589
HIGHEST ANNUAL MEAN			965
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	14900	Dec 29	28800
LOWEST DAILY MEAN	5.0	Aug 25	5.0
ANNUAL SEVEN-DAY MINIMUM	5.1	Aug 20	5.1
MAXIMUM PEAK FLOW			19800
MAXIMUM PEAK STAGE		17.51	Dec 29
ANNUAL RUNOFF (AC-FT)	222300	560800	427000
10 PERCENT EXCEEDS	758	2110	1430
50 PERCENT EXCEEDS	47	106	71
90 PERCENT EXCEEDS	8.4	20	17

e Estimated

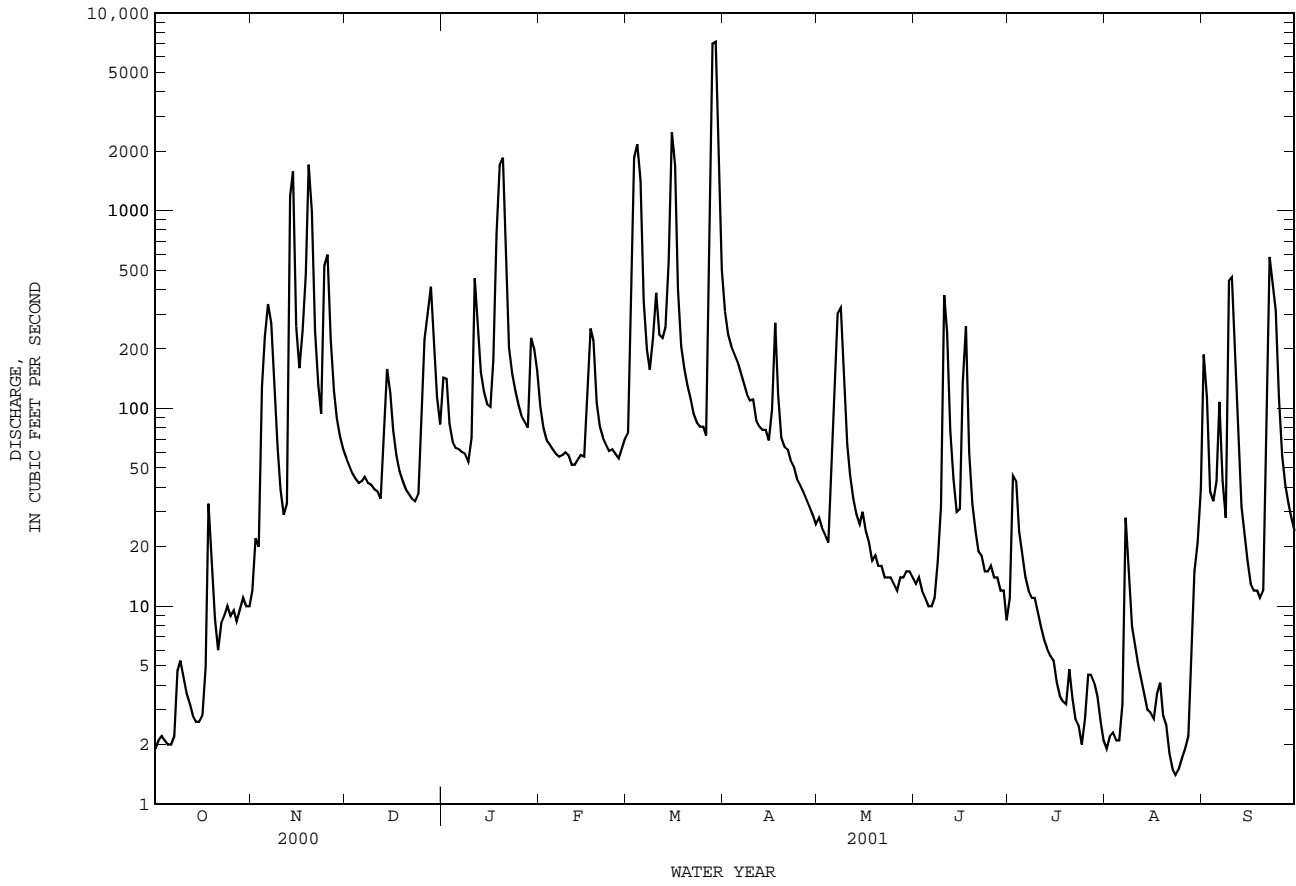
08110800 Navasota River at OSR near Bryan, TX--Continued



08111500 Brazos River near Hempstead, TX--Continued



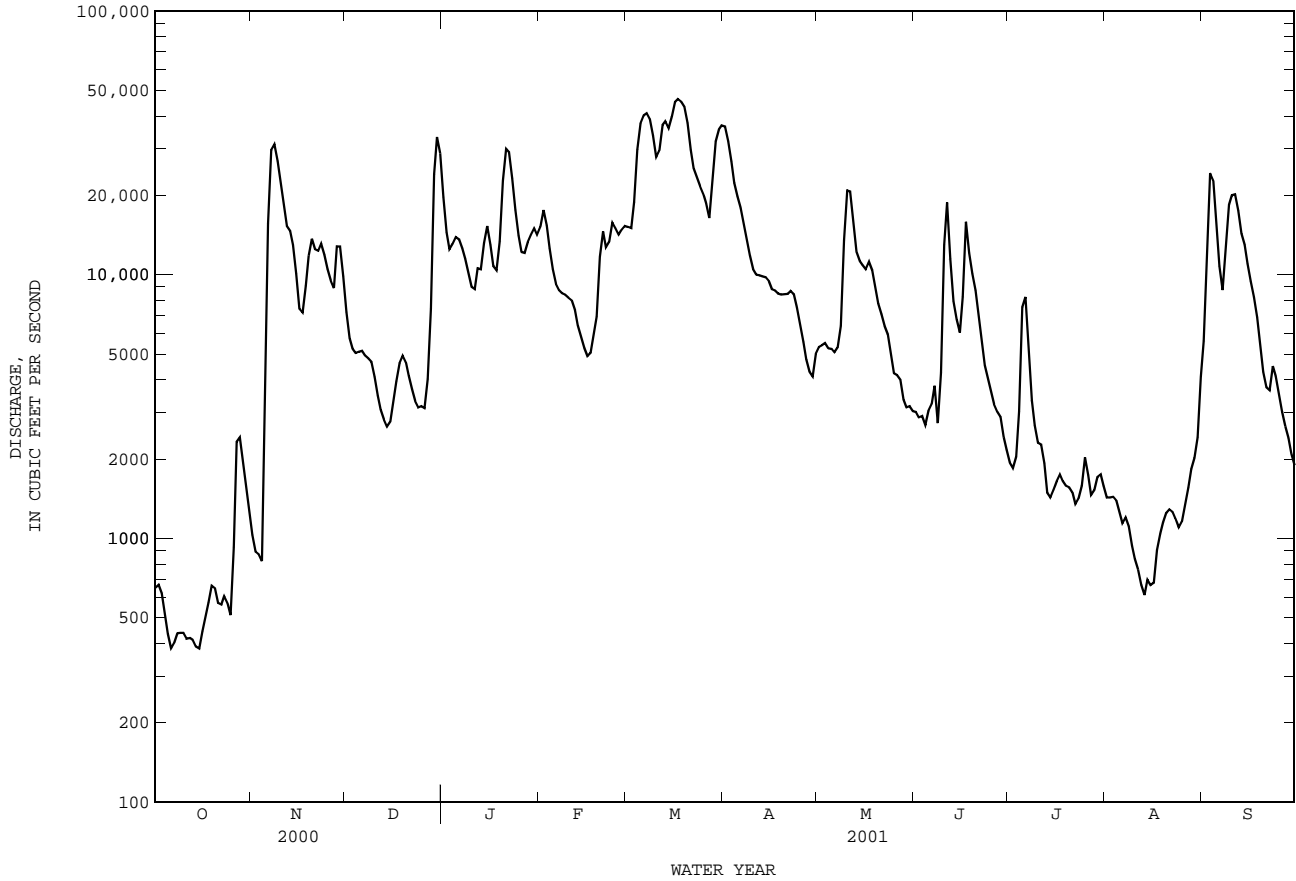
08111700 Mill Creek near Bellville, TX--Continued



08114000 Brazos River at Richmond, TX--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001z	
ANNUAL TOTAL	991462		3526748		7549	
ANNUAL MEAN	2709		9662		26620	
HIGHEST ANNUAL MEAN					1201	
LOWEST ANNUAL MEAN					118000	
HIGHEST DAILY MEAN	33300	Dec 30	46500	Mar 17	118000	May 5 1957
LOWEST DAILY MEAN	265	Sep 29	382	Oct 6	55	Jul 5 1956
ANNUAL SEVEN-DAY MINIMUM	356	Sep 24	414	Oct 9	93	Jul 4 1956
MAXIMUM PEAK FLOW			46700	Mar 17	119000	May 5 1957
MAXIMUM PEAK STAGE			35.46	Mar 17	50.30	Oct 21 1994
ANNUAL RUNOFF (AC-FT)	1967000		6995000		5469000	
10 PERCENT EXCEEDS	5800		23300		19100	
50 PERCENT EXCEEDS	983		6420		2910	
90 PERCENT EXCEEDS	445		918		760	

z Period of regulated streamflow.



BRAZOS RIVER BASIN

08114000 Brazos River at Richmond, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
DEC 07...	<20
MAR 13...	--
JUL 10...	--
AUG 14...	--

BRAZOS RIVER BASIN

08115000 Big Creek near Needville, TX

LOCATION.--Lat 29°28'35", long 95°48'45", Fort Bend County, Hydrologic Unit 12070104, on left bank at downstream side of bridge on State Highway 36, 1.5 mi downstream from Coon Creek, 5.5 mi north of Needville, and 10.5 mi upstream from Fairchild Creek, and 33.0 mi upstream from mouth.

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--May 1947 to June 1950, Mar. 1952 to current year.

REVISED RECORDS.--WSP 1148: 1947. WSP 1712: 1957-58, 1959(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.39 ft above sea level. Prior to June 1950, and May 1959 to Mar. 1960, nonrecording gage at datum 10.00 ft higher. Mar. to May 1959, and Mar. 1960 to Sept. 1967, water-stage recorder at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. Channel was rectified in 1956. Low flow supplemented by drainage from irrigated fields. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, 24.4 ft in Aug. 1945 before channel rectification, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.96	5.8	5.0	7.4	1.0	28	1.8	.54	1.2	.24	1950
2	1.4	1.4	3.3	3.8	3.9	52	16	1.7	.88	1.2	.90	866
3	1.7	15	2.4	2.8	2.6	148	10	1.5	1.4	1.1	.44	485
4	1.7	57	2.2	2.3	2.2	77	7.0	1.3	1.4	1.1	.91	208
5	1.7	34	1.9	2.0	1.9	25	5.2	2.6	1.4	3.9	1.3	425
6	1.6	274	1.3	1.4	1.8	11	4.0	6.3	1.9	1.2	1.2	323
7	2.3	71	1.2	1.1	1.5	4.8	3.1	22	29	1.2	1.2	96
8	8.7	25	1.2	1.0	.96	3.1	2.4	58	14	1.2	1.3	42
9	3.1	11	1.5	1.6	.71	3.9	2.0	22	544	1.7	1.2	43
10	2.9	5.5	1.7	38	.57	2.4	1.9	6.6	262	1.5	1.3	36
11	2.0	3.8	1.6	221	.98	2.3	1.9	3.2	54	.96	1.4	14
12	.86	10	1.7	52	1.2	2.5	1.9	2.3	13	.92	1.5	6.0
13	.25	157	12	22	1.2	2.9	2.1	1.7	3.7	1.3	2.0	3.2
14	.53	47	5.8	25	.58	76	1.7	1.4	2.1	1.2	1.7	2.2
15	.48	18	2.4	14	.15	226	1.7	1.4	1.7	1.2	1.7	1.6
16	.34	155	1.9	93	1.1	64	1.9	1.2	1.5	1.4	1.6	1.2
17	1.8	310	1.5	82	1.1	23	3.3	.52	5.6	1.3	1.9	1.0
18	11	1330	1.6	159	1.1	11	2.3	.38	6.3	1.2	2.0	.65
19	3.9	708	1.3	241	1.2	6.1	2.3	.84	2.7	1.0	2.1	.49
20	1.7	196	1.3	75	1.3	3.6	1.4	1.3	1.8	.98	2.2	.33
21	1.2	73	.63	27	1.2	2.6	.84	.64	1.5	.39	1.4	.80
22	1.4	34	.54	14	1.2	2.9	.74	.23	.97	.93	.81	.68
23	1.5	21	.12	7.2	1.3	2.4	.86	.85	1.2	1.2	.76	2.1
24	1.2	343	11	4.5	1.3	2.3	1.5	1.1	1.1	.63	.80	3.3
25	1.2	142	93	3.1	1.5	1.9	1.7	1.3	.94	.35	.75	1.2
26	38	50	120	2.5	1.4	1.6	1.7	.65	.98	.94	1.7	1.2
27	15	25	205	2.3	1.3	.89	1.5	1.0	1.0	1.2	1.9	1.0
28	2.8	16	51	2.0	1.1	951	1.6	1.4	.32	1.5	3.1	.95
29	1.0	11	21	84	---	393	1.7	1.4	.86	1.4	16	.94
30	5.5	8.2	8.4	48	---	160	1.8	1.3	1.1	1.4	232	1.2
31	2.4	---	4.5	18	---	60	---	.72	---	.86	2670	---
TOTAL	120.46	4152.86	568.79	1255.6	43.75	2324.19	114.04	148.63	958.89	37.56	2957.31	4518.04
MEAN	3.89	138	18.3	40.5	1.56	75.0	3.80	4.79	32.0	1.21	95.4	151
MAX	38	1330	205	241	7.4	951	28	58	544	3.9	2670	1950
MIN	.25	.96	.12	1.0	.15	.89	.74	.23	.32	.35	.24	.33
AC-FT	239	8240	1130	2490	87	4610	226	295	1900	75	5870	8960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001h, BY WATER YEAR (WY)

	MEAN	37.3	38.8	36.5	43.3	23.1	35.4	39.3	46.4	14.0	25.1	45.9
MAX	258	298	194	186	223	130	218	224	467	166	284	399
(WY)	1995	1986	1987	1974	1959	1957	1973	1982	1960	1961	1983	1979
MIN	.000	.000	.000	.000	.039	.000	.000	.33	.023	.019	.000	.000
(WY)	1948	1956	1949	1957	1962	1954	1954	1963	1948	1956	1948	1948

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

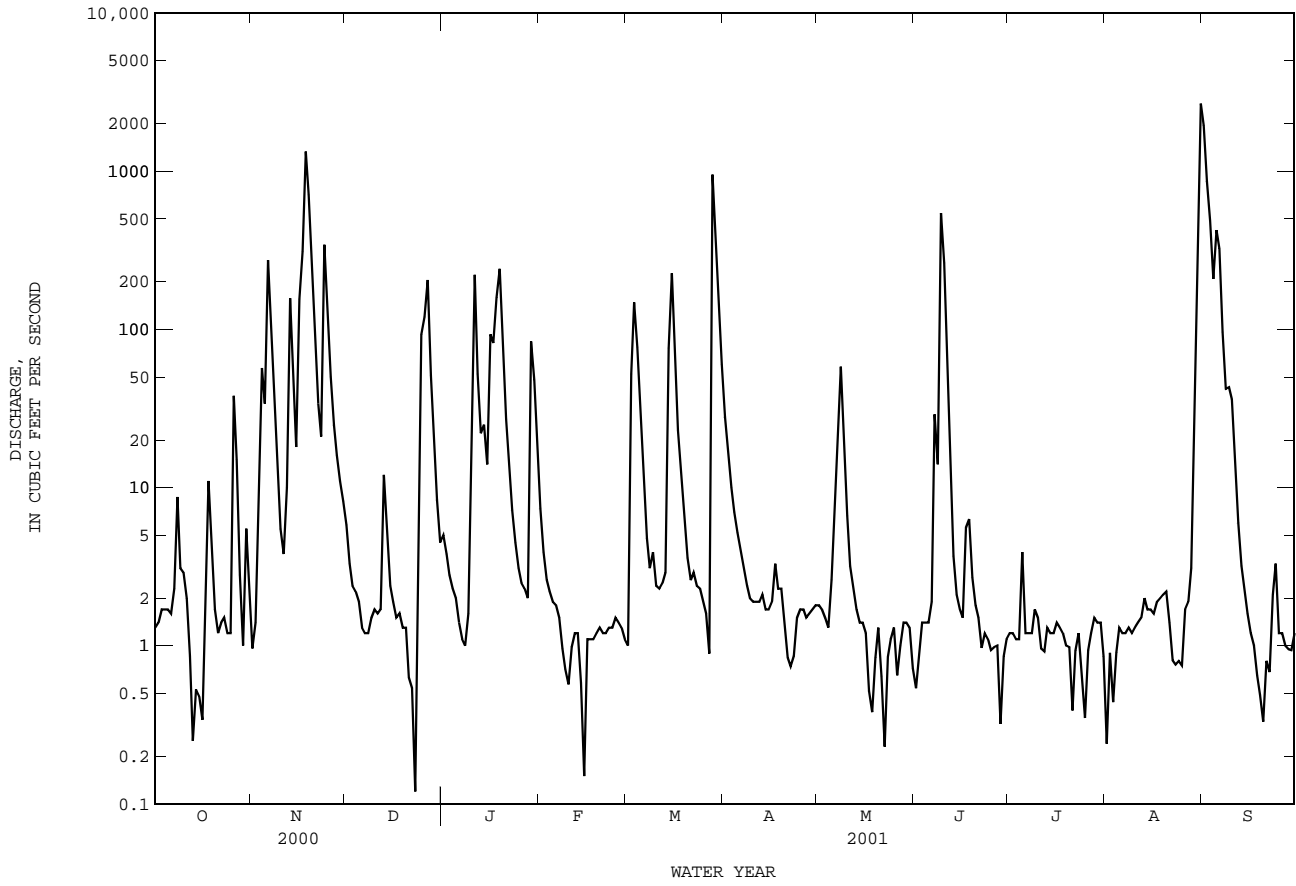
FOR 2001 WATER YEAR

WATER YEARS 1947 - 2001h

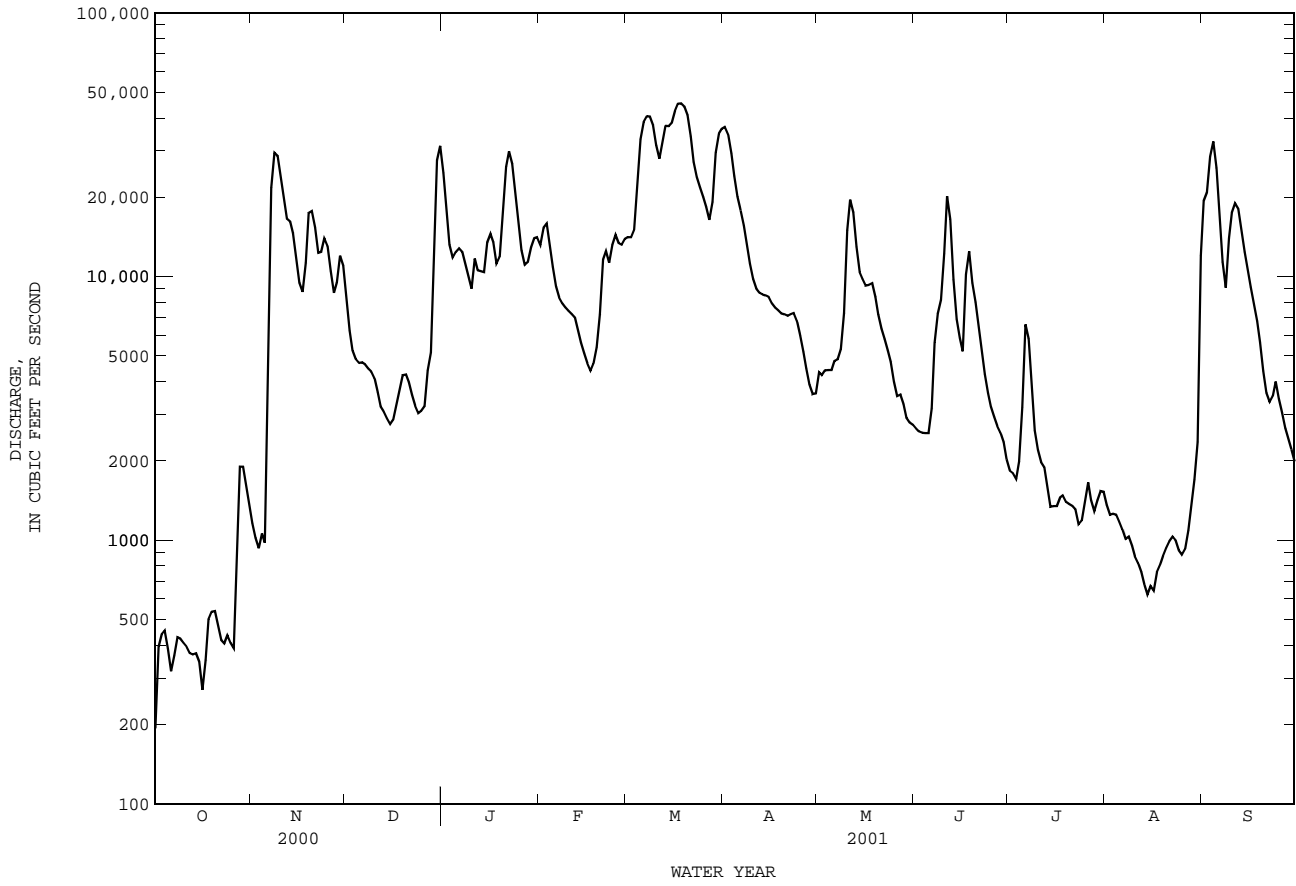
ANNUAL TOTAL	7101.51	17200.12	
ANNUAL MEAN	19.4	47.1	35.6
HIGHEST ANNUAL MEAN			91.1
LOWEST ANNUAL MEAN			3.18
HIGHEST DAILY MEAN	1330	Nov 18	2670
LOWEST DAILY MEAN	.01	Jan 26	.12
ANNUAL SEVEN-DAY MINIMUM	.37	Jan 11	.68
MAXIMUM PEAK FLOW			3210
MAXIMUM PEAK STAGE			21.55
ANNUAL RUNOFF (AC-FT)	14090		34120
10 PERCENT EXCEEDS	25		75
50 PERCENT EXCEEDS	1.5		1.8
90 PERCENT EXCEEDS	.54		.85

h See PERIOD OF RECORD paragraph.

08115000 Big Creek near Needville, TX--Continued



08116650 Brazos River at Rosharon, TX--Continued



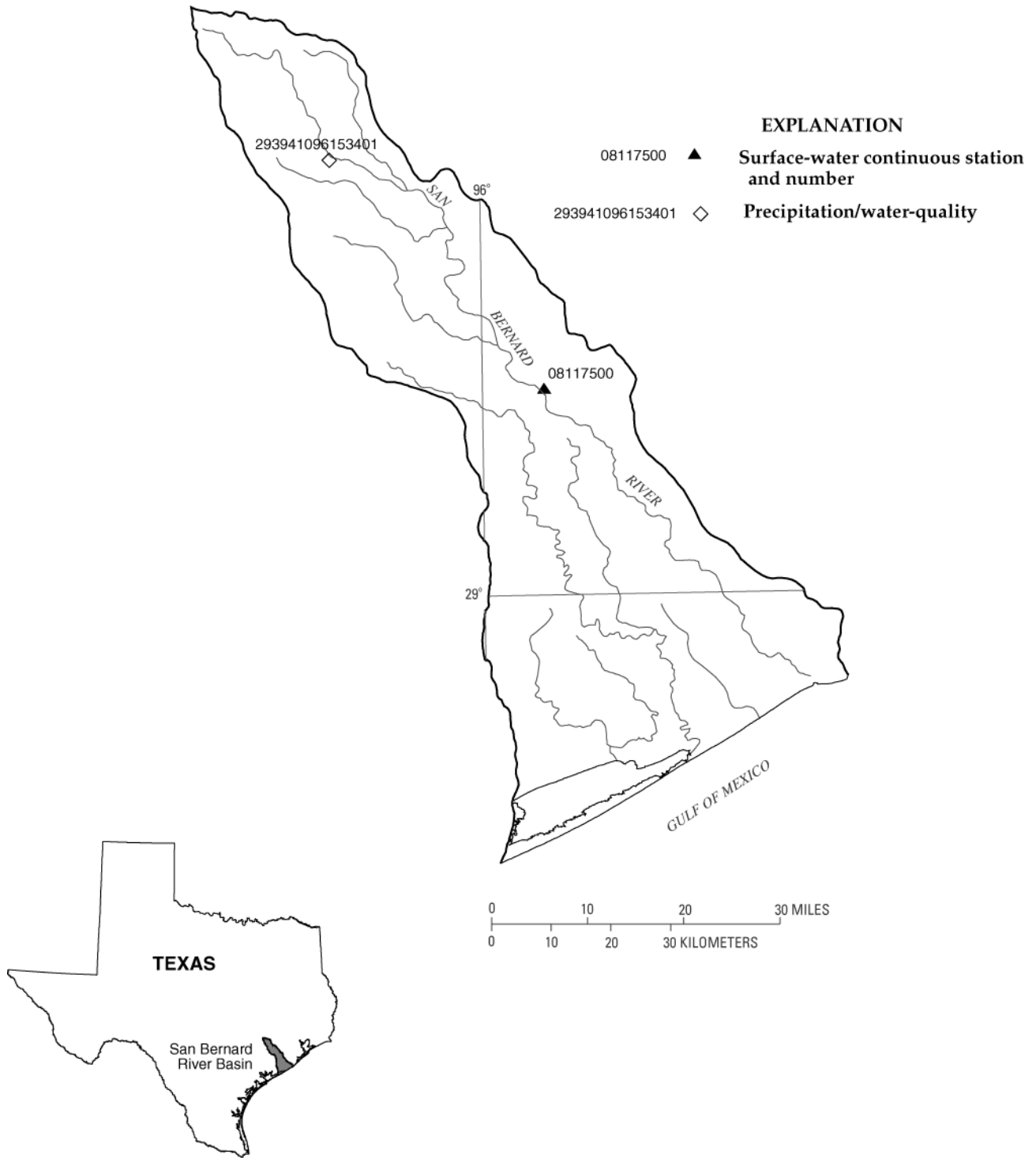


Figure 10.--Map showing location of gaging stations in the San Bernard River Basin

08117500	San Bernard River near Boling, TX	452
293941096153401	Attwater Prarie Chicken National Wildlife Refuge near Eagle Lake, TX	454

SAN BERNARD RIVER BASIN

08117500 San Bernard River near Boling, TX

LOCATION.--Lat 29°18'48", long 95°53'37", Wharton-Fort Bend County line, Hydrologic Unit 12090401, on left bank at downstream side of bridge on Farm Road 442, 2.5 mi downstream from Snake Creek, and 4.5 mi northeast of Boling.

DRAINAGE AREA.--727 mi².

PERIOD OF RECORDS.--May 1954 to current year.

Water-quality records.--Chemical data: Feb. 1978 to Sept. 1986. Biochemical data: Feb. 1978 to Sept. 1986.

REVISED RECORDS.--WSP 1712: 1958. WSP 1922: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 30.81 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. Part of low flow is drainage from areas irrigated with diversions from the Colorado River. There are numerous diversions above station for irrigation and for other uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 43.5 ft in 1913 (probably Dec.). Flood in Sept. 1938 reached a stage of 43.3 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	33	752	489	505	58	4020	46	67	102	236	12600
2	50	25	518	413	540	109	3510	67	53	125	227	e12400
3	46	21	349	275	614	573	2350	87	66	164	191	e8640
4	45	23	249	188	536	781	1170	93	66	213	150	e6690
5	58	93	190	137	368	929	718	105	63	232	129	6210
6	56	625	150	109	236	1370	466	235	67	232	126	5680
7	55	865	122	92	168	1920	296	851	63	200	125	4900
8	86	902	102	79	133	1610	197	1630	116	159	124	4260
9	142	901	89	67	114	1280	142	1980	231	132	134	3610
10	232	600	80	132	98	1040	110	1880	769	115	159	2610
11	246	425	75	1070	83	702	88	1300	986	99	167	1710
12	228	327	70	886	75	440	74	676	1370	83	157	1820
13	196	820	69	1070	70	314	67	387	1420	77	139	2770
14	157	892	72	868	64	337	60	324	961	71	128	2530
15	131	1140	63	866	62	1200	62	195	533	69	106	1760
16	111	1660	54	1050	62	1450	64	118	335	71	79	1250
17	91	1960	51	1130	59	1600	63	78	197	64	59	987
18	83	2810	52	1400	58	2440	62	58	136	55	45	753
19	142	5450	56	2130	86	2490	81	50	110	59	37	522
20	380	4450	55	2340	141	1680	168	59	101	67	34	339
21	390	3830	50	2480	167	1080	246	64	94	85	28	296
22	240	3940	47	2700	146	715	276	60	98	127	24	231
23	171	3750	43	2370	114	456	215	72	122	132	28	388
24	187	3790	42	1630	91	272	146	75	161	132	37	662
25	165	3490	322	1110	76	172	109	59	170	140	40	556
26	125	2830	683	769	67	125	95	55	161	146	48	390
27	102	2460	1240	527	61	99	83	55	143	150	50	300
28	91	2080	734	351	62	804	68	56	130	162	56	245
29	72	1510	596	447	---	2190	56	69	111	191	94	185
30	50	1070	488	564	---	2980	48	71	96	223	432	136
31	41	---	456	557	---	3870	---	74	---	232	6010	---
TOTAL	4227	52772	7919	28296	4856	35086	15110	10929	8996	4109	9399	85430
MEAN	136	1759	255	913	173	1132	504	353	300	133	303	2848
MAX	390	5450	1240	2700	614	3870	4020	1980	1420	232	6010	12600
MIN	41	21	42	67	58	58	48	46	53	55	24	136
AC-FT	8380	104700	15710	56130	9630	69590	29970	21680	17840	8150	18640	169500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

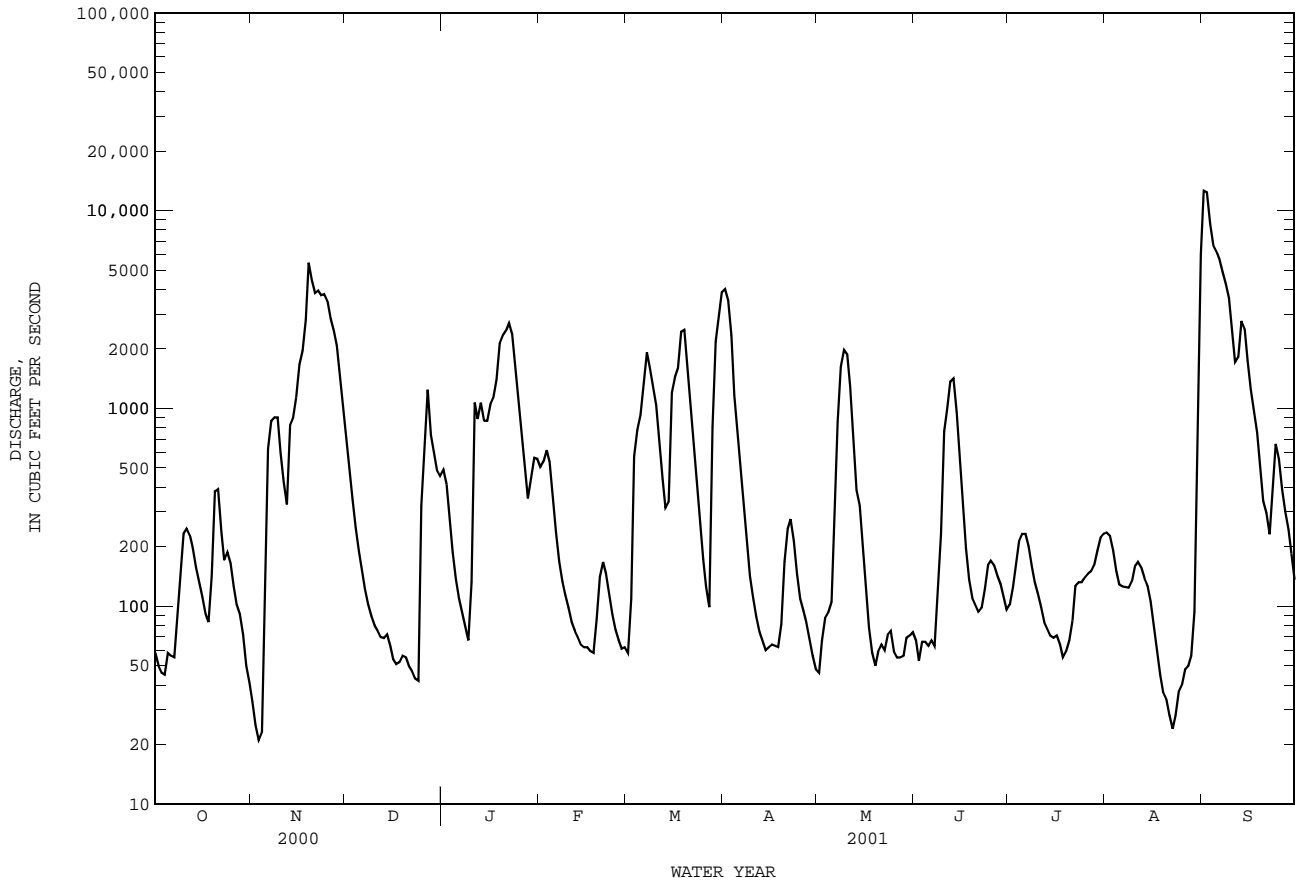
	MEAN	556	448	578	656	434	497	642	824	320	208	663
MEAN	671	556	448	578	656	434	497	642	824	320	208	663
MAX	5565	4170	2497	2316	4303	2680	3348	2840	5083	1417	710	3794
(WY)	1999	1999	1992	1979	1992	1997	1973	1972	1993	1961	1983	1979
MIN	3.27	5.23	6.19	6.57	13.0	5.97	15.2	22.8	10.4	10.7	26.8	35.2
(WY)	1957	1956	1990	1957	2000	1956	1963	1956	1956	1956	1956	1956

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1954 - 2001

ANNUAL TOTAL	116176.8	267129	
ANNUAL MEAN	317	732	544
HIGHEST ANNUAL MEAN			1357
LOWEST ANNUAL MEAN			37.9
HIGHEST DAILY MEAN	5450	Nov 19	12600
LOWEST DAILY MEAN	5.4	Mar 12	21
ANNUAL SEVEN-DAY MINIMUM	5.9	Mar 7	33
MAXIMUM PEAK FLOW			13700
MAXIMUM PEAK STAGE			a33.03
ANNUAL RUNOFF (AC-FT)	230400	529900	393800
10 PERCENT EXCEEDS	831	2100	1320
50 PERCENT EXCEEDS	82	162	124
90 PERCENT EXCEEDS	8.5	56	18

a From floodmark.
e Estimated

08117500 San Bernard River near Boling, TX--Continued



SAN BERNARD RIVER BASIN

293941096153401 Attwater Prairie Chicken National Wildlife Refuge near Eagle Lake, TX
(National Atmospheric Deposition Program (NADP))

PRECIPITATION WATER-QUALITY RECORDS

LOCATION.--Lat 29°39'41", long 96°15'34", Colorado County, Hydrologic Unit Code 12090401, 4.4 mi east and 5.3 mi north of Eagle Lake, 6.2 mi west and 7.8 mi south of Sealy.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum field pH, 7.0 units, May 19-26, 1987; minimum field pH, 3.7 units, June 17-24, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum field pH, 6.3 units, Mar. 7-14; minimum field pH, 4.1 units, Oct. 13-19, Jan. 25-Feb. 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CALCIUM ATM DEP WET DIS (MG/M2) (82933)
OCT													
17-24	0755	11	5.0	.035	.021	.011	.184	.100	.14	.31	.57	<.001	1.9
OCT 31-													
NOV 07	0800	17	4.7	.072	.076	.032	.703	.160	.10	1.23	1.42	<.001	5.5
NOV													
07-14	0805	11	4.9	.053	.034	.013	.323	.050	.06	.54	.61	<.001	3.6
NOV													
14-21	0805	11	4.9	.048	.018	.009	.169	.070	.10	2.91	.82	<.001	3.6
NOV 14-													
DEC 05	0841	19	4.9	.349	.077	.043	.618	.260	.23	1.09	1.67	<.001	2.7
NOV													
21-28	0719	14	5.2	.095	.135	.047	1.38	.030	.06	2.25	.65	<.001	2.0
DEC													
05-12	0815	37	4.2	.108	.037	.024	.299	.220	.48	.58	3.01	<.001	.4
DEC													
12-19	0835	33	4.2	.306	.056	.055	.407	.370	.43	.75	4.00	<.001	2.0
DEC													
19-26	0800	26	4.4	.082	.101	.046	.933	.130	.34	1.55	1.77	<.001	1.5
DEC 26 2000-													
JAN 02 2001	0813	35	4.3	.138	.150	.068	1.45	.180	.30	2.40	2.74	<.001	2.4
JAN													
02-09	0810	20	4.7	.512	.044	.038	.271	.440	.41	.45	2.65	<.001	.7
JAN													
09-16	0755	19	4.6	.120	.064	.026	.615	.150	.22	1.02	1.52	<.001	4.3
JAN													
23-30	0800	13	5.2	.582	.069	.048	.610	.120	.12	1.00	1.86	<.001	13.3
FEB													
07-13	1350	44	4.3	.450	.207	.097	1.77	.510	.49	3.03	4.18	<.001	3.1
FEB													
13-20	0800	16	5.3	.493	.117	.080	.973	.160	.18	1.62	1.49	<.001	7.2
FEB													
20-27	0805	54	4.2	1.23	.246	.149	1.91	.680	.76	2.86	7.04	<.001	3.2
FEB 27-													
MAR 06	0815	13	4.8	.041	.009	.011	.064	.130	.11	.11	1.23	<.001	2.3
MAR													
06-13	0742	22	5.0	.658	.148	.084	1.11	.320	.36	1.84	2.60	<.001	3.8
MAR													
13-20	0836	13	4.8	.128	.019	.022	.100	.160	.16	.18	1.34	<.001	7.5
MAR 27-													
APR 03	0840	9	4.8	.102	.012	.007	.061	.110	.12	.13	.91	<.001	7.5
APR													
10-17	0850	14	4.5	.147	.041	.035	.336	.250	.25	.51	1.45	<.001	4.2
APR													
17-24	0840	24	4.7	.554	.105	.055	.525	.640	.54	.80	3.17	<.001	2.2
APR 24-													
MAY 01	0825	37	4.3	.534	.148	.081	.975	.380	.52	1.62	4.21	<.001	1.1
MAY													
01-08	0805	11	5.5	.203	.071	.052	.605	.250	.19	1.09	.91	<.001	11.2
JUN													
05-12	1212	15	<4.6	.188	.024	.017	.157	.120	.22	.26	1.32	<.003	7.6
JUN													
12-19	0820	6	5.1	.055	.026	.013	.215	.040	.08	.40	.36	<.003	.9
JUN													
19-26	0805	14	4.7	.259	.037	.016	.197	.180	.35	.32	1.07	<.003	1.1
JUN 26-													
JUL 03	0800	14	5.2	.300	.089	.083	.751	.160	.33	1.35	.93	<.003	3.5
JUL													
24-31	0758	19	5.2	.231	.162	.089	1.44	.380	.33	2.68	1.05	<.003	.5
AUG 28-													
SEP 04	0815	6	5.5	.018	.009	.006	.120	.050	.04	.22	.34	<.003	3.6
SEP													
04-11	0847	5	5.3	.030	.033	.011	.300	.030	.05	.56	.27	<.003	2.7
SEP													
18-25	0815	13	4.6	.089	.025	.021	.217	.130	.26	.38	.87	<.003	2.6

293941096153401 Attwater Prairie Chicken National Wildlife Refuge near Eagle Lake, TX--Continued
(National Atmospheric Deposition Program (NADP))

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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 17-24	1.1	.6	9.7	5.35	7.4	16.6	30.4	<.1	.7
OCT 31- NOV 07	5.8	2.5	54.1	11.9	8.1	94.7	109	.1	1.4	5.200
NOV 07-14	2.3	.9	21.9	3.38	4.3	36.9	41.8	<.1	.7	4.600
NOV 14-21	1.4	.7	12.7	5.24	7.5	21.8	61.7	<.1	1.1	5.100
NOV 14- DEC 05	.6	.3	4.8	2.08	1.8	8.4	13.0	<.01	.1	.500
NOV 21-28	2.9	1.0	29.1	.720	1.2	--	13.8	<.02	.1	1.400
DEC 05-12	.1	.1	1.0	.770	1.6	2.0	10.2	<.01	.2	.200
DEC 12-19	.4	.4	2.6	2.42	2.8	4.8	25.9	<.01	.4	.400
DEC 19-26	1.8	.8	17.0	2.33	6.1	28.2	32.1	<.02	.8	1.200
DEC 26 2000- JAN 02 2001	2.6	1.2	25.3	3.17	5.2	42.0	47.9	<.02	.9	1.200
JAN 02-09	.1	.1	.4	.600	.6	.6	3.6	<.01	M	.100
JAN 09-16	2.3	.9	21.9	5.41	7.7	36.3	54.4	<.04	.8	2.400
JAN 23-30	1.6	1.1	13.9	2.92	2.8	22.8	42.4	<.02	.1	1.600
FEB 07-13	1.4	.7	12.4	3.55	3.4	21.2	29.3	<.01	.3	.500
FEB 13-20	1.7	1.2	14.2	2.32	2.6	23.6	21.7	<.01	M	1.000
FEB 20-27	.7	.4	5.0	1.80	2.0	7.5	18.6	<.01	.2	.200
FEB 27- MAR 06	.5	.6	3.5	7.17	6.0	5.9	68.0	<.1	1.2	3.700
MAR 06-13	.8	.5	6.3	1.80	2.1	10.5	14.8	<.01	.1	.400
MAR 13-20	1.1	1.3	5.9	9.51	9.4	10.6	79.0	<.1	1.3	4.000
MAR 27- APR 03	.9	.5	4.5	7.77	8.4	9.6	67.0	<.1	1.1	5.000
APR 10-17	1.2	1.0	9.6	7.06	7.2	14.6	41.4	<.03	.6	1.900
APR 17-24	.4	.2	2.1	2.56	9.8	3.2	12.7	<.01	.1	.300
APR 24- MAY 01	.3	.2	1.9	.750	1.0	3.2	8.2	<.01	.1	.100
MAY 01-08	4.0	2.9	33.3	13.6	10.4	60.2	49.9	<.1	.2	3.700
JUN 05-12	1.0	.7	6.3	5.06	8.8	10.5	53.5	<.1	.8	2.700
JUN 12-19	.4	.2	3.6	.590	1.3	6.7	6.0	<.1	.1	1.100
JUN 19-26	.2	.1	.9	.810	1.6	1.4	4.8	<.01	.1	.300
JUN 26- JUL 03	1.0	.9	8.6	1.80	3.8	15.5	10.6	<.03	.1	.800
JUL 24-31	.3	.2	3.1	.820	.7	5.8	2.3	<.01	M	.100
AUG 28- SEP 04	1.8	1.2	24.1	10.6	9.1	43.8	69.1	<.6	1.4	13.600
SEP 04-11	3.0	1.0	27.3	2.68	4.3	50.9	24.7	<.3	.5	6.200
SEP 18-25	.7	.6	6.3	3.84	7.5	11.0	25.1	<.1	.6	2.000

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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, the U.S. Geological Survey collects limited streamflow data at sites other than continuous stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. 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."

Low-flow partial-record stations

Measurements of streamflow at low-flow partial-record stations that are not published in the gaging-station section are given in the following table. Most of the measurements of low flow were made during periods when streamflow was sustained primarily by ground-water discharge. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will indicate the low-flow potential of the stream. The years listed in the column headed "Period of record" identifies the water years in which measurements were made at the same or at practically the same site.

Discharge measurements made at low-flow partial-record station during water year 2001

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Brazos River Basin						
08084100	Deadman Creek near Nugent, TX	Lat 32°40'36", long 99°37'00", Jones County, at low-water crossing on county road, 3.2 mi east of Nugent, and 4.4 mi upstream from Clear Fork Brazos River.	163	1967-2001	10-05-00 11-27-00 01-24-01 03-22-01 05-22-01 06-28-01	5.98 21.6 21.4 21.6 12.9 10.0
08104795	North Fork San Gabriel River upstream from State Highway 418 at Georgetown, TX	Lat 30°38'44", long 97°40'49", Williamson County, 0.2 mi upstream from State Highway 418 at Georgetown.	271	1984-88, 1990-2001	05-18-01 06-26-01 07-19-01 08-22-01 09-19-01	12.1 9.39 6.67 2.00 3.26
08104950	South Fork San Gabriel River upstream from State Hwy 418 at Georgetown, TX	Lat 30°38'38", long 97°40'50", Williamson County, 0.2 mi upstream from State Highway 418 at Georgetown.	136	1984-88, 1990-2001	05-18-01 06-26-01 07-19-01 08-22-01 09-19-01	52.2 22.0 5.49 1.02 3.00
08105000	San Gabriel River at Georgetown, TX	Lat 30°39'14", long 97°39'18", Williamson County, on left bank 100 ft downstream from Missouri-Kansas Railroad bridge, 1.2 mi below confluence of North and South Forks, about 1.5 mi northeast of Williamson County Courthouse in Georgetown.	399	1924-25, 1934-73 †, 1984-87 †, 1988, 1990-2001	05-18-01 06-26-01 07-20-01 08-22-01 09-18-01	80.4 42.5 25.5 20.0 19.5
08105095	Berry Creek upstream from IH-35 near Georgetown, TX	Lat 30°42'11", long 97°39'58", Williamson County, about 1.4 mi upstream from IH-35 near Georgetown.	71.4	1984-88, 1990-2001	05-18-01 06-26-01 07-19-01 08-22-01 09-19-01	12.6 0.00 0.00 0.00 0.00
08105160	Dry Berry Creek near Georgetown, TX	Lat 30°41'28", long 97°38'14", Williamson County, at downstream side of county road, 0.4 mi upstream from mouth, and 4.0 mi northeast of Georgetown.	33.1	1986-88, 1990-2001	05-18-01 06-26-01 07-19-01 08-22-01 09-18-01	0.46 0.05 0.01 0 0.01
08105200	Berry Creek at State Highway 971 near Georgetown, TX	Lat 30°40'33", long 97°36'52", Williamson County, at downstream side of State Highway 971 bridge and 4.7 mi northeast of Georgetown.	117	1964-73, 1984-87 †, 1988, 1990-2001	05-18-01 06-26-01 07-20-01 08-22-01 09-18-01	36.1 11.2 5.96 1.52 6.13
08105300	San Gabriel River near Weir, TX	Lat 30°38'45", long 97°35'06", Williamson County, on left bank at downstream side of State Highway 29 bridge, 0.5 mi upstream from Manske Branch, 4.7 mi east of Georgetown, 2.0 mi south of Weir, and 54.8 mi upstream from mouth.	563	1976-90, 1991-2001	05-18-01 06-26-01 07-20-01 08-22-01 09-18-01	108 56.5 26.6 10.2 36.7

† Operated as a continuous-record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 or definition of flood-profiles. 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 2001

Station name and number	Location	Period of record	Water Year 2001 maximum			Period of record maximum			
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)	
Cedar Bayou Basin									
Cedar Bayou near Baytown, TX 08067510	Lat 29°46'12", long 94°54'59", Chambers-Harris County Line, at bridge on State Highway 146, 0.2 mi downstream from Cary Bayou, 0.2 mi upstream from Saw Pit Gully, and 4.3 mi northeast of Baytown. Drainage area is 169 mi ² .	1984-2001	06-09-01	*5.04	--	10-19-94	*10.87	--	
San Jacinto River Basin									
Goose Creek at Baytown, TX 08067525	Lat 29°46'14", long 94°59'58", Harris County, at bridge on Baker Road in Baytown, 1.1 mi upstream from West Fork Goose Creek, and 2.0 mi upstream from East Fork Goose Creek. Drainage Area is 15.8 mi ² .	1986-2001	03-28-01	*17.22	--	01-22-98	*23.47	--	
Willow Creek near Tomball, TX 08068325	Lat 30°06'19", long 95°32'47", Harris County, at bridge on Kuykendahl Road, 0.6 mi upstream from Cannon Gully, and 4.0 mi east of Tomball. Drainage area is 41.0 mi ² .	1984-2001	06-09-01	32.34	4,120	06-09-01	32.34	4,120	
Cypress Creek at Sharp Road near Hockley, TX 08068700	Lat 29°55'15", long 95°50'24", Harris County, at bridge on Sharp Road and 7.4 mi south of Hockley. Drainage area is 80.7 mi ² .	1976-78 1979-2001	03-29-01	*65.81	--	10-18-94	*69.86	--	
Buffalo Bayou near Fulshear, TX 08072350	Lat 29°43'22", long 95°46'01", Ft. Bend County, at proposed location of Peek Road bridge, about 200 ft downstream from Little Prong Bayou, 4,300 ft upstream from Mason Road, 8.3 mi east-northeast of Fulshear. Drainage area is 81.7 mi ² .	1986-2001	03-28-01	13.43	--	02-21-94	r15.84	--	
South Mayde Creek near Addicks, TX 08072700	Lat 29°48'03", long 95°41'33", Harris County, at bridge on Groeschke Road, 3.2 mi west of Addicks, and 4.6 mi upstream from langham Creek. Drainage area is 32.3 mi ² .	1974-2001	03-28-01	*106.68	--	08-31-81	108.76	4,080	
Langham Creek near Addicks, TX 08072800	Lat 29°50'08", long 95°37'32", Harris County, at bridge on Clay Road, 3.6 mi north of Addicks, and 4.4 mi upstream from mouth. Drainage area is 48.9 mi ² .	1974-2001	06-09-01	*101.28	--	08-31-81	102.25	3,360	
Whiteoak Bayou at Alabonson Road at Houston, TX 08074020	Lat 29°52'14", long 95°28'49", Harris County, at bridge on Alabonson Road, in northwest Houston, 1.0 mi upstream from Vogel Creek and 2.5 mi upstream from Cole Creek. Drainage area is 34.5 mi ² .	1984-2001	06-09-01	51.11	13,400	06-09-01	51.1	13,400	
Little Whiteoak Bayou at Trimble Street at Houston, TX 08074540	Lat 29°47'33", long 95°22'06", Harris County, at bridge on Trimble Street in Houston. Drainage area is 18.0 mi ² .	1979-2001	06-09-01	*46.21	--	06-09-01	*46.21	--	
Brays Bayou at Alief, TX 08074760	Lat 29°42'39", long 95°35'13", Harris County, at bridge on High Star Street in Alief. Drainage area is 14.1 mi ² .	1977-2001	03-28-01	15.48	--	03-04-92	21.16	--	
Keegans Bayou at Keegan Road near Houston, TX 08074780	Lat 29°39'55", long 95°35'42", Harris County, at bridge on Keegan Road and about 16 mi southwest of Houston. Drainage area is 8.63 mi ² .	1965-71, 1975-2001	06-07-01	*78.91	--	04-14-66	83.55	--	

See footnote at end of table.

Annual maximum stage and (or) discharge during water year 2001--Continued

Station name and number	Location	Period of record	Water Year 2001 maximum			Period of record maximum			
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)	
San Jacinto River Basin--Continued									
Brays Bayou at Gessner Drive, Houston, TX 08074810	Lat 29°40'21", long 95°31'41", Harris County, at bridge on Gessner Drive in southwest Houston and 0.10 mi below mouth of Keegans Bayou. Drainage area is 53.2 mi ² .	1977-2001	06-09-01	*61.00	11,200	03-04-92	65.42	16,900	
Greens Bayou at Cutten Road near Houston, TX 08075780	Lat 29°56'56", long 95°31'10", Harris County, at bridge on Cutten Road and about 16.5 mi northwest of Houston. Drainage area is 8.65 mi ² .	1965-2001	06-09-01	*116.77	5,670	02-21-69 06-09-01	*118.04 *116.77	508 5,670	
Carpenters Bayou at IH-10 near Channelview, TX 08076902	Lat 29°46'18", long 95°08'56", Harris County, at bridge on eastbound access road to IH-10, at western boundary of Channelview, 4.4 mi upstream from mouth. Drainage area is 25.9 mi ² .	1991-2001	06-09-01	*16.91	--	10-17-94	*17.53	--	

* Elevation, in feet.

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