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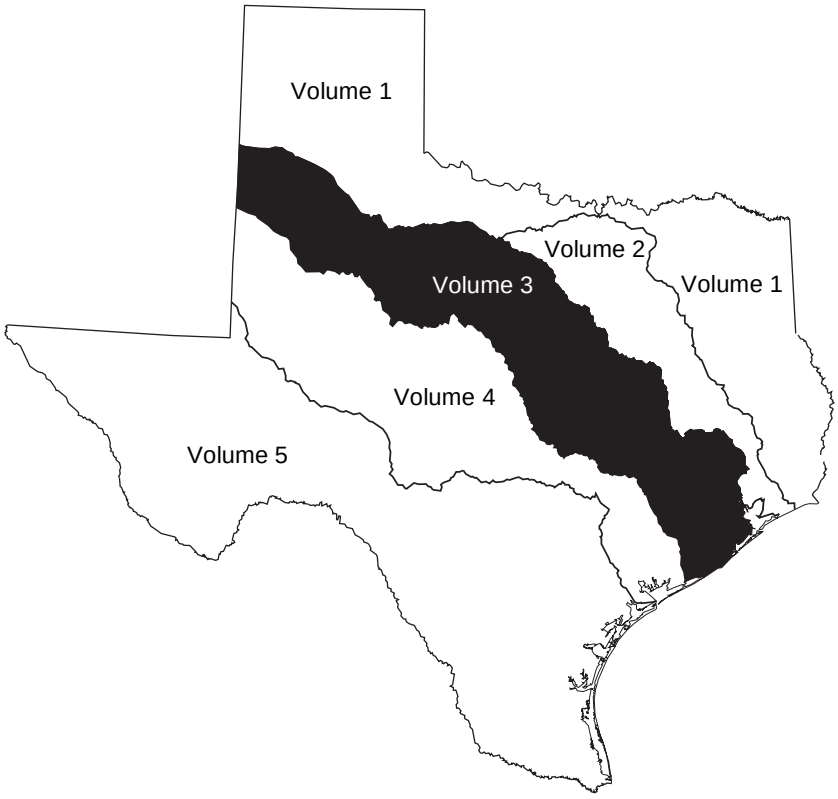
U.S. Geological Survey

Water Resources Data
Texas
Water Year 2000

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

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

Water-Data Report TX-00-03



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

UNITED STATES DEPARTMENT OF THE INTERIOR

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PREFACE

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

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

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

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2000 water year for Texas are presented in six volumes, and consist of records of stage, discharge, and water quality of streams and canals; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. Volume 3 contains records for water discharge at 84 gaging stations; stage only at 9 gaging stations; stage and contents at 32 lakes and reservoirs; water quality at 25 gaging stations; and data for 43 partial-record stations comprised of 18 flood-hydrograph, 8 low-flow, 14 crest-stage, and 3 miscellaneous stations. Also included are lists of discontinued surface-water discharge or stage-only stations and discontinued surface-water-quality stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating Federal, State, and local agencies in Texas. Records for a few pertinent stations in the bordering States also are included.

14. SUBJECT TERMS

*Texas, *hydrologic data, *surface water, *water quality, flow rate, gaging stations, lakes, reservoirs, chemical analyses, sediments, water temperature, sampling sites.

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CONTENTS

	Page
Preface	iii
List of gaging stations, in downstream order, for which records are published	vi
List of discontinued surface-water discharge or stage-only stations	ix
List of discontinued surface-water-quality stations	xxv
Introduction	1
Cooperation	2
Hydrologic conditions	2
Streamflow	2
Water quality	5
Special networks and programs	6
Explanation of the records	7
Station identification numbers	7
Downstream order numbering	7
Records of stage and water discharge	7
Data collection and computation	7
Data presentation	8
Station manuscript	8
Data table of daily mean values	9
Statistics of monthly mean data	10
Summary statistics	10
Identifying estimated daily discharge	11
Accuracy of the records	11
Other records available	11
Records of surface-water quality	11
Classification of records	12
Arrangement of records	12
On-site measurements and sample collection	12
Water temperature	13
Sediment	13
Laboratory measurements	13
Data presentation	13
Remarks codes	14
Water Quality-Control Data	15
Blank samples	15
Reference samples	15
Replicate samples	15
Spike samples	15
Access to USGS Water Data	15
Definition of terms	16
Publications of techniques of water-resources investigations	22
Gaging-station records	26
National Atmospheric Deposition Program Station	474
Miscellaneous water-quality data	476
Discharge at partial-record stations and miscellaneous sites	485
Low-flow partial-record stations	485
Crest-stage partial-record stations	486
Miscellaneous partial-record stations	488
Index	489

ILLUSTRATIONS

Figure	1. Area of Texas covered by volume 3 and location of selected streamflow stations in volume 3	3
	2. Monthly mean discharges at four long-term hydrologic index stations during 2000 water year and median of the monthly mean discharges for 1961-90 water years.	4
	3. Map showing location of gaging stations in the San Jacinto and Coastal River Basins	26
	4. Map showing location of gaging stations in the Houston inset of the San Jacinto River Basin	27
	5. Map showing location of gaging stations in the first section of the Brazos River Basin	214
	6. Map showing location of gaging stations in the second section of the Brazos River Basin	232
	7. Map showing location of gaging stations in the third section of the Brazos River Basin	306
	8. Map showing location of gaging stations in the Georgetown inset of the Brazos River Basin	307
	9. Map showing location of gaging stations in the fourth section of the Brazos River Basin	432
	10. Map showing location of gaging stations in the San Bernard River Basin	470

TABLES

Table	1. Streamflow at six selected stations	5

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	30
SAN JACINTO RIVER BASIN		
West Fork San Jacinto River:		
Lake Conroe near Conroe (e) (c) (t)	08067600	32
West Fork San Jacinto River below Lake Conroe near Conroe (d)	08067650	40
West Fork San Jacinto River near Conroe (d)	08068000	42
West Fork San Jacinto River above Lake Houston near Porter (d)	08068090	44
Spring Creek near Tomball (d) (c) (t)	08068275	46
Panther Branch:		
Bear Branch at Research Forest Blvd., The Woodlands (d)	08068390	54
Panther Branch at Gosling Road, The Woodlands (d) (c) (t)	08068400	58
Panther Branch near Spring (d)	08068450	76
Spring Creek near Spring (d) (c) (t)	08068500	78
Cypress Creek at Katy-Hockley Road near Hockley (d)	08068720	88
Cypress Creek at House and Hahl Road near Cypress (d)	08068740	90
Little Cypress Creek near Cypress (d)	08068780	92
Cypress Creek at Grant Road near Cypress (d)	08068800	94
Cypress Creek at Stuebner-Airline Road near Westfield (d)	08068900	96
Cypress Creek near Westfield (d) (c) (t) (b)	08069000	98
East Fork San Jacinto River near Cleveland (d)	08070000	102
East Fork San Jacinto River near New Caney (d) (c) (t) (b)	08070200	104
Caney Creek near Splendora (d)	08070500	108
San Jacinto River:		
Peach Creek at Splendora (d)	08071000	110
Luce Bayou above Lake Houston near Huffman (d)	08071280	112
Lake Houston near Sheldon (e) (c) (t) (b)	08072000	114
San Jacinto River near Sheldon (e)	08072050	126
Buffalo Bayou near Katy (d)	08072300	128
Barker Reservoir near Addicks (e)	08072500	130
South Mayde Creek:		
Bear Creek near Barker (d)	08072730	132
Langham Creek at West Little York Road near Addicks (d)	08072760	134
Addicks Reservoir near Addicks (e)	08073000	136
Buffalo Bayou near Addicks (d)	08073500	138
Buffalo Bayou at West Belt Drive, Houston (d)	08073600	140
Buffalo Bayou at Piney Point (d)	08073700	142
Buffalo Bayou at Houston (d) (c) (t)	08074000	144
Whiteoak Bayou:		
Cole Creek at Deihl Road, Houston (d)	08074150	152
Brickhouse Gulley at Costa Rica Street, Houston (d)	08074250	154
Whiteoak Bayou at Houston (d)	08074500	156
Whiteoak Bayou at Main Street, Houston (e)	08074598	158
Buffalo Bayou at McKee Street, Houston (e) (c) (t)	08074610	160
Buffalo Bayou at Turning Basin, Houston (e) (c) (t)	08074710	168
Brays Bayou:		
Keegans Bayou at Roark Road near Houston (d)	08074800	176
Brays Bayou at Houston (d)	08075000	178
Sims Bayou at Hiram Clarke Street, Houston (d)	08075400	180
Sims Bayou at Houston (d)	08075500	182
Berry Bayou at Forest Oaks Street, Houston (e)	08075650	184
Vince Bayou at Pasadena (d)	08075730	186
Hunting Bayou at Interstate Highway 610, Houston (d)	08075770	188
Greens Bayou near U.S. Highway 75 near Houston (d)	08075900	190
Greens Bayou near Houston (d)	08076000	192
Garners Bayou near Humble (d)	08076180	194
Halls Bayou at Houston (d)	08076500	196
Greens Bayou at Ley Road, Houston (d)	08076700	198

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
CLEAR CREEK BASIN		
Clear Creek near Friendswood (d)	08077600	200
COASTAL BASIN		
Moses Lake-Galveston Bay near Texas City (e)	08077650	202
HIGHLAND BAYOU BASIN		
Highland Bayou Diversion Channel near Hitchcock (e)	08077690	204
Highland Bayou near Hitchcock (e)	08077695	206
LaMarque Levee Pump Station near LaMarque (e)	08077740	208
CHOCOLATE BAYOU BASIN		
Chocolate Bayou near Alvin (d)	08078000	212
BRAZOS RIVER BASIN		
Double Mountain Fork Brazos River (head of Brazos River):		
Double Mountain Fork Brazos River at Justiceburg (d) (c) (t)	08079600	216
Lake Alan Henry Reservoir near Justiceburg (e)	08079700	222
Double Mountain Fork Brazos River near Aspermont (d) (c) (t)	08080500	224
Salt Fork Brazos River:		
White River Reservoir near Spur (e)	08080910	228
Salt Fork Brazos River near Aspermont (d)	08082000	230
Brazos River:		
Brazos River at Seymour (d) (c) (t)	08082500	234
Millers Creek near Munday (d)	08082700	238
Millers Creek Reservoir near Bomarton (e)	08082800	240
Clear Fork Brazos River near Roby (d)	08083100	242
Lake Sweetwater near Sweetwater (e)	08083200	244
Lake Abilene near Buffalo Gap (e)	08083270	246
Fort Phantom Hill Reservoir near Nugent (e)	08083500	248
Clear Fork Brazos River at Nugent (d)	08084000	250
Paint Creek:		
Lake Stamford near Haskell (e)	08084500	252
California Creek near Stamford (d)	08084800	254
Clear Fork Brazos River at Fort Griffin (d)	08085500	256
Hubbard Creek below Albany (d) (c) (t)	08086212	258
Big Sandy Creek:		
Lake Cisco near Cisco (e)	08086215	264
Big Sandy Creek above Breckenridge (d) (c) (t)	08086290	268
Hubbard Creek Reservoir near Breckenridge (e) (c) (t)	08086400	274
Gonzales Creek:		
Lake Daniel near Breckenridge (e)	08086600	280
Brazos River near South Bend (d)	08088000	284
Salt Creek:		
Lake Graham near Graham (e)	08088400	286
Possum Kingdom Lake near Graford (e)	08088500	288
Brazos River near Graford (d)	08088610	290
Brazos River near Palo Pinto (d)	08089000	292
Palo Pinto Creek:		
Lake Palo Pinto near Santo (e)	08090300	294
Rock Creek:		
Lake Mineral Wells near Mineral Wells (e)	08090700	298
Brazos River near Dennis (d)	08090800	302
Lake Granbury near Granbury (e)	08090900	304
Brazos River near Glen Rose (d) (c) (t)	08091000	310
Paluxy River at Glen Rose (d)	08091500	314
Squaw Creek Reservoir near Glen Rose (e)	08091730	316
Squaw Creek near Glen Rose (d)	08091750	318
Nolan River:		
Lake Pat Cleburne near Cleburne (e)	08091900	320
Nolan River at Blum (d) (c) (t)	08092000	322
Lake Whitney near Whitney (e) (c) (t) (b)	08092500	324
Brazos River at Whitney Dam near Whitney (c) (t)	08092600	342

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
BRAZOS RIVER BASIN--Continued		
Brazos River near Aquilla (d)	08093100	344
Aquilla Lake above Aquilla (e)	08093350	346
Aquilla Creek near Aquilla (d)	08093500	348
North Bosque River at Hico (d)	08094800	350
North Bosque River near Clifton (d)	08095000	352
North Bosque River at Valley Mills (d) (c) (t)	08095200	354
South Bosque River:		
Middle Bosque River near McGregor (d) (c) (t)	08095300	358
Hog Creek near Crawford (d)	08095400	360
Waco Lake near Waco (e) (c) (t) (b)	08095550	362
Bosque River near Waco (c) (t)	08095600	382
Brazos River at Waco (d)	08096500	384
Brazos River near Highbank (d)	08098290	386
Leon Reservoir near Ranger (e)	08099000	388
Leon River near DeLeon (d)	08099100	390
Sabana River near DeLeon (d)	08099300	392
Proctor Lake near Proctor (e)	08099400	394
Leon River near Hamilton (d)	08100000	396
Leon River at Gatesville (d)	08100500	398
Cowhouse Creek at Pidcoke (d)	08101000	400
Belton Lake near Belton (e)	08102000	402
Leon River near Belton (d)	08102500	404
Lampasas River near Kempner (d)	08103800	406
Rocky Creek:		
South Fork Rocky Creek near Briggs (d)	08103900	408
Stillhouse Hollow Lake near Belton (e)	08104050	410
Lampasas River near Belton (d)	08104100	412
Little River near Little River (d)	08104500	414
Lake Georgetown near Georgetown (e)	08104650	416
North Fork San Gabriel River near Georgetown (d)	08104700	418
South Fork San Gabriel River at Georgetown (d)	08104900	420
Berry Creek near Georgetown (d)	08105100	422
Granger Lake near Granger (e)	08105600	424
San Gabriel River at Laneport (d)	08105700	426
Little River near Rockdale (d)	08106350	428
Little River at Cameron (d)	08106500	430
Brazos River at State Highway 21 near Bryan (d)	08108700	434
Middle Yegua Creek (head of Yegua Creek) near Dime Box (d)	08109700	436
East Yegua Creek near Dime Box (d)	08109800	438
Somerville Lake near Somerville (e)	08109900	440
Davidson Creek near Lyons (d)	08110100	442
Lake Mexia near Mexia (e)	08110300	444
Navasota River above Groesbeck (d)	08110325	448
Big Creek near Freestone (d)	08110430	450
Lake Limestone near Marquez (e)	08110470	452
Navasota River near Easterly (d)	08110500	454
Navasota River at OSR near Bryan (d)	08110800	456
Brazos River near Hempstead (d)	08111500	458
Mill Creek near Bellville (d)	08111700	460
Brazos River at Richmond (d) (c) (t)	08114000	462
Big Creek near Needville (d)	08115000	466
Brazos River near Rosharon (d)	08116650	468
SAN BERNARD RIVER BASIN		
San Bernard River near Boling (d)	08117500	472

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Texas have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the title page of this report.

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

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Punta De Agua Creek near Channing (d)	07227448	3,568	1968-73
East Chyenne Creek Tributary near Channing (e)	07227460	0.86	1965-74
Canadian River at Tascosa (d)	07227470	18,536	1969-77
Tecovas Creek Tributary near Bushland (e)	07227480	2.5	1966-74
Dixon Creek near Borger (d)	07227920	134	1974-89
Palo Duro Creek near Canyon (e)	07229700	982	1942-54
White Woman Creek Tributary near Darrouzett (e)	07234150	4.03	1966-74
Tierra Blanca Creek above Buffalo Lake near Umbarger (d)	07295500	1,968	1939-54, 1967-73
Buffalo Lake near Umbarger (e)	07296000	2,075	1938-54
Tierra Blanca Creek below Buffalo Lake near Umbarger (d)	07296100	2,075	1967-73
Prairie Dog Town Fork Red River near Canyon (d)	07297500	3,369	1924-26, 1938-49
Middle Tule Draw near Tulia (e)	07297920	313	1967-74
North Tule Draw at Reservoir near Tulia (d)	07298000	189	1939-40, 1941-73
Rock Creek Tributary near Silverton (d)	07298150	13.7	1966-74
Tule Creek near Silverton (d)	07298200	1,150	1964-86
Prairie Dog Town Fork Red River near Brice (d)	07298500	6,082	1939-44, 1949-51, 1960-63
Mulberry Creek near Brice (d)	07299000	534	1949-51
Prairie Dog Town Fork Red River near Lakeview (d)	07299200	6,792	1963-80
Little Red River near Turkey (d)	07299300	139	1968-81
Prairie Dog Town Fork Red River near Estelline (d)	07299500	7,293	1924-25, 1938-47
Prairie Dog Town Fork Red River below Mountain Creek near Estelline (e)	07299505	7,341	1974-77
Prairie Dog Town Fork Red River above Jonah Creek near Estelline (e)	07299510	7,533	1974-77
Jonah Creek at Weir near Estelline (d)	07299512	65.50	1974-82
Jonah Creek below Weir near Estelline (d)	07299514	66.60	1974-76
Jonah Creek at mouth near Estelline (d)	07299516	76	1974-76
Salt Creek near Estelline (d)	07299530	142	1974-79
Buck Creek near Wellington (e)	07299550	210	1951-64
Red River near Quanah (d)	07299570	8,321	1960-82
North Groesbeck Creek Tributary near Kirkland (d)	07299575	0.16	1966-74
Wanders Creek at Odell (e)	07299750	199	1949-50, 1952-89
Salt Fork Red River near Clarendon (d)	07299850	457	1960-64
Lelia Lake Creek near Hedley (e)	07299900	86	1951-70
Salt Fork Red River near Hedley (e)	07299930	744	1951, 1956-62
Oklahoma Draw Tributary near Hedley (e)	07299940	1.1	1965-74
Sweetwater Creek near Wheeler (e)	07301400	164	1951-64
Doodlebug Creek near Wheeler (e)	07301405	0.19	1967-73
Elm Creek near Shamrock (e)	07303300	N/A	1947-89
Quitaque Creek near Quitaque (d)	07307500	293	1945-59
North Pease River near Childress (d)	07307600	1,434	1973-79
North Pease River near Kirkland (e)	07307660	N/A	1973-79
Roaring Springs near Roaring Springs (e)	07307700	N/A	1937, 1943-95
Cottonwood Creek Tributary near Afton (e)	07307720	0.68	1967-74
Middle Pease River near Paducah (d)	07307750	1,086	1973-79
Middle Pease River near Paducah (d)	07307760	1,123	1980-82

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Middle Pease River near Kirkland (e)	07307780	1,250	1973-79
Canal Creek near Crowell (e)	07307950	49.0	1968-70, 1978-79
Pease River near Crowell (d)	07308000	3,037	1924-47
Plum Creek near Vernon (e)	07308220	4.99	1967-74
China Creek near Electra (e)	07308400	37	1967-76
North Fork Wichita River near Crowell (d)	07311622	591	1971-76
Middle Fork Wichita River near Truscott (d)	07311648	161	1971-76
South Fork Wichita River near Guthrie (d)	07311780	239	1952-54, 1956-57 1971-76
South Fork Wichita River at Ross Ranch near Benjamin (d)	07311790	499	1971-79
Beaver Creek near Electra (d)	07312200*	652	1960-99
Beaver Creek Tributary near Crowell (e)	07312140	3.43	1966-74
Wolf Creek near Iowa Park (e)	07312300	8.5	1966-74
North Fork Little Wichita River Tributary near Archer City (e)	07314200	0.10	1966-74
Little Wichita River near Henrietta (d)	07315000	1,037	1953-79
Little Wichita River near Ringgold (d)	07315400	1,350	1959-65
Farmers Creek near Saint Jo (e)	07315550	0.82	1966-74
Mineral Creek near Sadler (d)	07316200	26	1968-77
Sandy Creek near Sadler (e)	07316230	24	1968-74
Lake Texoma near Denison (e)	07331500	39,719	1943-93
Red River at Denison Dam near Denison (d)	07331600	39,720	1924-89
Bois D'Arc Creek near Randolph (d)	07332600	72	1963-85
Cooper Creek near Bonham (e)	07332602	6.21	1966-74
Pat Mayse Lake near Chicota (d)	07335390	175	1968-96
Sanders Creek near Chicota (d)	07335400	175	1968-86
Little Pine Creek near Kanawha (d)	07336750	75.40	1969-80
Pecan Bayou near Clarksville (d)	07336800	100	1962-77
Red River near DeKalb (d)	07336820	47,348	1967-98
McKinney Bayou near Leary (e)	07336940	3.33	1966-73
Barkman Creek near Leary (e)	07336950	31.5	1958-64
Nelson Branch near Leonard (e)	07342450	0.22	1966-74
South Sulphur River near Commerce (d)	07342470	189	1980-91
Cuthand Creek near Bogata (d)	07343300	69	1964-74
Dial Branch near Bagwell (e)	07343350	1.00	1966-74
White Oak Creek near Mt. Vernon (e)	07343480	434	1966, 1969-75
White Oak Creek below Talco (d)	07343800	579	1938-50
Buck Creek near Cookville (e)	07343900	0.78	1966-74
Sulphur River near Darden (d)	07344000	2,774	1924-56
Sulphur River near Texarkana (d)	07344210	3,443	1980-85
Big Cypress Creek near Winnsboro (d)	07344482	27.2	1974-92
Dragoo Creek near Mt. Pleasant (e)	07344490	4.27	1967-74
Williamson Creek near Pittsburg (e)	07344600	7.11	1967-74
Boggy Creek near Daingerfield (d)	07345000	72	1943-77
Ellison Creek Reservoir near Lone Star (e)	07345500	37	1943-62, 1974-89
Cypress Creek Tributary near Jefferson (e)	07346010	0.51	1966-74
Taylor Branch near Smithland (e)	07346072	0.73	1966-74
Big Cypress Creek near Karnack (e)	07346085	2,174	1980-85
Frazier Creek near Linden (d)	07346140	48.0	1965-91
Sabine River near Emory (d)	08017500	888	1952-73
Burnett Branch near Canton (e)	08017700	0.33	1966-74
Grand Saline Creek near Grand Saline (d)	08018200	91.4	1968-73
Burke Creek near Yantis (d)	08018730	33.10	1979-89
Dry Creek near Quitman (e)	08018950	63.6	1968-75
Lake Winnsboro near Winnsboro (d)	08019300	27.1	1962-86
Big Sandy Creek near Hawkins (e)	08019430	196	1980-82
Prairie Creek near Gladewater (d)	08020200	48.90	1968-77

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Sabine River near Longview (d)	08020500	2,947	1904-07, 1924-33
Rabbit Creek at Kilgore (d)	08020700	75.80	1964-77
Grace Creek Tributary at Longview (e)	08020800	5.05	1967-74
Mill Creek near Henderson (d)	08020960	20.30	1979-81
Mill Creek near Longview (d)	08020980	47.90	1979-81
Tiawichi Creek near Longview (d)	08020990	62.70	1978-81
Cherokee Bayou near Elderville (d)	08021000	120	1940-49
Lake Cherokee near Longview (e)	08021500	158	1951-83
Sabine River near Tatum (d)	08022000	3,493	1939-78,
" " " " (e)			1979-82
Redmon Branch near Hallesville (e)	08022010	0.46	1966-74
Eight Mile Creek near Tatum (e)	08022050	106	1962-71
Martin Creek near Tatum (d)	08022070	148	1974-96
Martin Creek near Beckville (e)	08022080	192	1962-71
Murvaul Bayou near Gary (d)	08022300	134	1958-83
Socagee Creek near Carthage (d)	08022400	82.60	1962-73
Tenaha Creek near Shelbyville (d)	08023200	97.80	1952-81
Dorsey Branch near Milam (e)	08024290	0.70	1967-74
Patroon Bayou near Milam (e)	08024300	130	1952-54, 1959-63
Sabine River near Milam (d)	08024400	6,508	1924-25, 1939-68
Palo Gaucho Bayou near Hemphill (d)	08024500	123	1952-65
Housen Bayou near Yellowpine (e)	08025250	92.1	1952-54, 1957, 1959-63
Sandy Creek near Yellowpine (e)	08025300	135	1952-54, 1957, 1959-63
Mill Creek near Burkeville (d)	08025307	17.6	1974-79
Little Cow Creek below McGraw Creek near Burkeville (e)	08026500	112	1952-58
Moore Branch near Newton (e)	08028505	3.77	1967-74
Nichols Creek near Buna (e)	08029750	54.4	1959-64
Cypress Creek near Buna (d)	08030000	69.20	1952-83
Adams Bayou Tributary near Deweyville (e)	08030700	12.4	1966-74
Cow Bayou near Mauriceville (d)	08031000	83.30	1952-86
Bethlehem Branch near Van (e)	08031100	1.09	1966-74
Kickapoo Creek near Brownsboro (d)	08031200	232	1962-89
Neches River near Reese (d)	08031500	851	1924-27
Hurricane Creek Tributary near Palestine (e)	08032100	0.39	1966-74
One Arm Creek near Maydelle (e)	08032250	6.01	1967-74
Squirrel Creek near Elkhart (e)	08032300	1.57	1967-74
Neches River near Alto (d)	08032500	1,945	1944-79
Piney Creek Tributary near Pennington (e)	08033250	1.17	1967-74
Piney Creek near Groveton (d)	08033300	79	1962-89
Shawnee Creek Tributary near Huntington (e)	08033450	0.52	1966-74
Greenwood Creek Tributary near Colmesneil (e)	08033480	0.15	1966-74
Bowles Creek near Selman City (e)	08033600	14.5	1968-85
Striker Creek near Summerfield (d)	08033700	146	1941-49
Striker Creek Reservoir near New Salem (e)	08033800	148	1941-49
East Fork Angelina River near Cushing (d)	08033900	158	1964-89
Mud Creek near Jacksonville (d)	08034500	376	1939-79
Mud Creek at Ponta (d)	08035000	475	1924-27
Angelina River near Lufkin (d)	08037000	1,600	1924-34, 1939-79
Bayou Lanana at Nacogdoches (d)	08037050	31.3	1965-86, 1988-93
Gingham Branch near Mt. Enterprise (e)	08037300	0.90	1967-74
Arenoso Creek near San Augustine (d)	08037500	75.30	1938-40
Angelina River near Zavalla (d)	08038500	2,892	1952-65

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Ayish Bayou at San Augustine (d)	08039000	15.80	1924-25
Angelina River at Horger (d)	08039500	3,486	1928-51, 1967-73
Little Sandy Creek Tributary near Jasper (e)	08039900	0.46	1967-74
Drakes Branch near Spurger (e)	08041400	5.03	1967-74
Hillebrandt Bayou near Lovell Lake (d)	08042500	128	1954-84
West Fork Double Bayou near Anahuac (e)	08042550	4.43	1967-74
North Creek SWS No. 28-A near Jermyn (e)	08042650	6.82	1972-80
North Creek near Jacksboro (d)	08042700	21.60	1956-80
Beans Creek at Wizard Wells (e)	08042900	29.60	1993-95
West Fork Trinity River at Bridgeport (d)	08043100	1,113	1984-89
West Fork Trinity River at Bridgeport (d)	08043500	1,147	1908-30
Big Sandy Creek near Bridgeport (d)	08044000	333	1937-95
Garrett Creek near Paradise (e)	08044135	52.5	1992-95
Salt Creek near Paradise (e)	08044140	52.7	1992-95
Walker Creek near Boyd (e)	08044200	2.95	1965-74
West Fork Trinity River at Lake Worth, Fort Worth (d)	08045500	2,069	1924-34
Clear Fork Trinity River near Aledo (d)	08046000	251	1947-75
Marine Creek at Fort Worth (d)	08048500	16.80	1950-58
Sycamore Creek at I.H. 35W, Fort Worth (d)	08048520	17.70	1970-76
Sycamore Creek Trib. above Seminary South, Fort Worth (d)	08048530	0.97	1970-76
Sycamore Creek Trib. at I.H. 35W, Fort Worth (d)	08048540	1.35	1970-76
Dry Branch at Fain Street at Fort Worth (d)	08048600	2.15	1969-76
Big Fossil Creek at Haltom City (d)	08048800*	52.8	1959-73
Little Fossil Creek at I.H. 820, Fort Worth (e)	08048820	5.64	1969-73
Little Fossil Creek at Mesquite Street, Fort Worth (d)	08048850	12.30	1969-76
Deer Creek Tributary near Crowley (e)	08048900	5.86	1967-74
Village Creek at Kennedale (d)	08048980	100	1986-89
Village Creek near Handley (d)	08049000	126	1925-30
Big Bear Creek near Grapevine (d)	08049550	29.6	1967-79
Trigg Branch at DFW Airport near Euless (d)	08049565	1.73	1983-87
Mountain Creek near Cedar Hill (d)	08049600	119	1961-84
Mountain Creek above Duncanville (e)	08049850	224	1986-87
Mountain Creek near Duncanville (e)	08049900	225	1971-90
Mountain Creek near Grand Prairie (d)	08050000	273	1925-33
Elm Fork Trinity River SWS 6-O near Muenster (e)	08050200	0.77	1957-73
Elm Fork Trinity River near Muenster (d)	08050300	46	1957-73
Elm Fork Trinity River near Sanger (d)	08050500	381	1949-85
Isle Du Bois Creek near Pilot Point (d)	08051000	266	1949-85
Elm Fork Trinity River near Pilot Point (d)	08051130	692	1985-92
Elm Fork Trinity River above Aubrey (e)	08051190	684	1981-89
Elm Fork Trinity River near Denton (d)	08052000	1,084	1924-27
Lake Dallas near Lake Dallas (e)	08052500	1,165	1929-57
Little Elm Creek SWS #10 near Gunter (e)	08052630	2.10	1966-72
Little Elm Creek near Celina (d)	08052650	46.70	1966-76
Hickory Creek at Denton (d)	08052780	129	1985-87
Indian Creek at Hebron Parkway at Carrollton (d)	08053010	15.0	1987-90
Furneaux Creek at Josey Lane at Carrollton (d)	08053030	4.10	1987-90
Hutton Branch at Broadway at Carrollton (e)	08053090	9.10	1987-90
Jones Valley Creek Tributary near Forestburg (e)	08053100	1.70	1966-74
Denton Creek near Roanoke (d)	08054000	621	1924-28, 1939-55
Gamble Branch near Argyle (e)	08054200	0.50	1965-74
Denton Creek near Grapevine (d)	08055000	705	1948-91
Joe's Creek at Royal Lane, Dallas (e)	08055580	1.94	1973-78
Joes Creek near Dallas (e)	08055600	7.4	1964-79
Bachman Branch at Dallas (d)	08055700	10	1964-79
Turtle Creek at Dallas (d)	08056500	7.98	1952-80, 1984-91
Coombs Creek at Sylvan Avenue, Dallas (e)	08057020	4.75	1965-78

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Cedar Creek at Bonnie View Road, Dallas (e)	08057050	9.42	1965-78
White Rock Creek at Keller Springs Road, Dallas (d)	08057100	29.40	1961-79
Spanky Branch at McCallum Lane at Dallas (e)	08057120	6.77	1962-78
Rush Branch at Arapaho Road, Dallas (e)	08057130	1.22	1973-78
Cottonwood Creek at Forest Lane, Dallas (e)	08057140	8.50	1962-78
Floyd Branch at Forrest Lane, Dallas (e)	08057160	4.17	1962-78
White Rock Creek at White Rock Lake, Dallas (d)	08057300	100	1963-79
Ash Creek at Highland Road, Dallas (e)	08057320	6.92	1963-78
Forney Creek at Lawnview Avenue, Dallas (e)	08057340	1.84	1963-72
White Rock Creek at Scyene Road, Dallas (d)	08057400	122	1963-79
Elm Creek at Seco Boulevard, Dallas (e)	08057415	1.25	1973-78
Fivemile Creek at Kiest Boulevard, Dallas (e)	08057418	7.65	1974-78
Fivemile Creek at US Highway 77 West, Dallas (e)	08057420	14.30	1965-78
Woody Branch at US Highway 77 West, Dallas (e)	08057425	10.30	1965-78
Fivemile Creek at Lancaster Road, Dallas (e)	08057430	37.90	1965-78
Newton Creek at Interstate Highway 635, Dallas (e)	08057135	5.91	1974-78
Trinity River below Dallas (d)	08057410	6,278	1956-58
White Branch at Interstate Highway 635, Dallas (e)	08057440	2.53	1974-78
Tenmile Creek at State Highway 342 at Lancaster (d)	08057450	52.80	1970-79
Honey Creek SWS #11 near McKinney (e)	08057500	2.14	1952-73
Honey Creek SWS #12 near McKinney (e)	08058000	1.26	1952-77
Honey Creek near McKinney (d)	08058500	39	1951-73
East Fork Trinity River near McKinney (d)	08059000	190	1949-75
Arls Branch near Westminster (e)	08059200	0.52	1965-74
Sister Grove Creek near Princeton (d)	08059500	113	1949-75
East Fork Trinity River above Pilot Grove near Lavon (d)	08060000	324	1949-53
East Fork Trinity River near Lavon (d)	08061000	773	1954-89
East Fork Trinity River near Rockwall (d)	08061500	840	1924-54
Duck Creek at Buckingham Road, Garland (e)	08061620	8.05	1969-76
Duck Creek near Garland (d)	08061700	31.6	1958-93
South Mesquite Creek at State Highway 352, Mesquite (e)	08061920	13.40	1969-76
South Mesquite Creek at Mercury Road near Mesquite (d)	08061950	23	1969-79
Cedar Creek Reservoir Spillway Outflow near Trinidad (d)	08062650	1,007	1966-82
Cedar Creek near Kemp (d)	08062800	189	1963-87
Bachelor Creek near Terrell (e)	08062850	13.0	1967-74
Kings Creek near Kaufman (d)	08062900	233	1963-87
Lacey Fork near Mabank (d)	08062980	118	1983-84
Cedar Creek near Mabank (d)	08063000	733	1939-66
South Twin Creek near Eustace (d)	08063003	27.40	1983-84
Red Oak Branch near Eustace (e)	08063005	0.90	1966-74
Cedar Creek at Trinidad (d)	08063020	1,011	1965-71
Briar Creek Tributary near Corsicana (e)	08063180	0.72	1966-74
Pin Oak Creek near Hubbard (d)	08063200	17.60	1956-72
Richland Creek near Richland (d)	08063500	734	1939-88
Alvarado Branch near Alvarado (e)	08063550	0.84	1966-74
Kings Branch near Reagor Springs (e)	08063620	0.62	1966-74
Chambers Creek near Corsicana (d)	08064500	963	1939-84
Richland Creek near Fairfield (d)	08064600	1,957	1972-83
Saline Branch Tributary near Bethel (e)	08064630	0.22	1967-74
Catfish Creek near Tennessee Colony (d)	08064800	207	1962-89
Mayes Branch near Latexo (e)	08065320	4.26	1967-74
Trinity River near Midway (d)	08065500	14,450	1939-71
Caney Creek near Madisonville (d)	08065700	112	1963-77
Nelson Creek near Riverside (e)	08065950	86.4	1949, 1965, 1970-74
Harmon Creek near Huntsville (e)	08065975	89.2	1973-81
West Carolina Creek near Oakhurst (e)	08066050	15.2	1949, 1966-73
White Rock Creek near Trinity (e)	08066100	222	1974-85
White Rock Creek near Trinity (e)	08066130	228	1966-74

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Tantaboque Creek near Trinity (e)	08066140	61.3	1966-73
Caney Creek near Groveton (e)	08066145	41.4	1966-73
Brushy Creek near Onalaska (d)	08066150	29.1	1966-70
Rocky Creek near Onalaska (e)	08066180	40.6	1966-73
Livingston Reservoir outflow weir near Goodrich (d)	08066191	16,583	1969-94
Long King Creek near Goodrich (d)	08066210	220	1972-81
Bluff Creek Tributary near Livingston (e)	08066280	0.62	1965-74
Big Creek near Shepherd(e)	08066400	38.80	1966-89
Gaylor Creek near Moss Hill (e)	08066800	32.3	1966-73
Devers Canal near Liberty (d)	08067080	N/A	1972-82
Cedar Bayou at Crosby (d)	08067500*	65.0	1972-91
Goose Creek near McNair (e)	08067520	6.7	1963-65,
Welch Branch near Huntsville (e)	08067550	2.35	1965-74
Lake Conroe near Montgomery (e)	08067580	445	1973-76
Lake Conroe at Outflow Weir near Conroe (d)	08067610	445	1974, 1977-89
Caney Creek near Dobbin (d)	08067700	40.40	1963-65
Landrum Creek Tributary near Montgomery (e)	08067750	0.13	1965-74
Lake Creek near Conroe (e)	08067900	291	1969-89
West Fork San Jacinto River near Porter (e)	08068100	970	1970-76
Mill Creek Tributary near Dobbin (e)	08068300	4.07	1967-73
Swale No. 8 at Woodlands (e)	08068438	0.55	1975-76, 1980-88
Spring Creek at Spring (d)	08068520	419	1975-95
Spring Creek near Humble (e)	08068600	435	1971-76
Cypress Creek at Sharp Road near Hockley (d)	08068700	80.7	1975-85
Cypress Creek near Cypress (e)	08068750*	138	1971-76
Little Cypress Creek near Cypress (d)	08068780*	41.0	1983-92
Cypress Creek at Grant Road near Houston (d)	08068800*	214	1983-92
Cypress Creek at Stuebner-Airline Road near Westfield (d)	08068900*	248	1982-87
Cypress Creek near Humble (e)	08069200	319	1971-76
West Fork San Jacinto River near Humble (d)	08069500	1,741	1929-54
Bear Creek near Cleveland (e)	08069850	1.46	1967-73
Caney Creek near New Caney (e)	08070600	178	1970-76
Peach Creek near New Caney (e)	08071100	155	1970-76
Tarkington Bayou near Dayton (e)	08071200	142	1964-76
Luce Bayou near Huffman (e)	08071300	226	1971-76
San Jacinto River near Huffman (d)	08071500	2,800	1937-53
Buffalo Bayou at Clodine (e)	08072400	84.2	1974-85
Langham Creek at West Little York Road, Addicks (d)	08072760*	25.0	1977-85
Bettina Street Ditch at Houston (e)	08073630	1.37	1979-85
Stony Brook Street Ditch at Houston (e)	08073750	0.50	1967-72
Bering Ditch at Woodway Drive, Houston (e)	08073800	2.77	1965-73
Cole Creek at Guhn Road at Houston (e)	08074100	7.05	1964-72
Bingle Road Storm Sewer at Houston (e)	08074145	0.21	1980-88
Cole Creek at Deihl Road at Houston (d)	08074150*	7.50	1964-86
Brickhouse Gully at Clarblak Street at Houston (e)	08074200	2.56	1965-83
Brickhouse Gully at Costa Rica Street at Houston (d)	08074250*	11.4	1964-81
Lazybrook Street Storm Sewer, Houston (e)	08074400	0.13	1978-88
Little White Oak Bayou at Houston (e)	08074550	20.9	1971-79
Buffalo Bayou at Main St., Houston (d)	08074600*	469	1962-94
Buffalo Bayou at 69th Street, Houston (e)	08074700	476	1961-86
Brays Bayou at Addicks-Clodine Rd., Houston (e)	08074750	0.87	1974-77
Brays Bayou at Alief Road, Alief (e)	08074760*	12.9	1977-85
Keegans Bayou at Keegans Road near Houston (e)	08074780*	7.47	1964-71
Keegans Bayou at Roark Road near Houston (d)	08074800*	13.0	1964-85
Bintliff Ditch at Bissonnet Street, Houston (e)	08074850	4.38	1968-82
Willow Waterhole Bayou at Landsdowne Street, Houston (e)	08074900	3.81	1965-72
Hummingbird Street Ditch at Mullins Street, Houston (e)	08074910	0.32	1979-84
Brays Bayou at Scott Street, Houston (e)	08075100	106	1971-81

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Sims Bayou at Carlsbad Street, Houston (e)	08075300	3.81	1964-72
Sims Bayou at MLK Blvd., Houston (e)	08075470	48.4	1978-89
Berry Bayou at Gilpin Street, Houston (e)	08075550	2.87	1965-84
Berry Bayou Tributary at Globe Street, Houston (e)	08075600	1.58	1965-72
Berry Bayou at Forest Oaks Street, Houston (e)	08075650*	10.7	1968-82
Berry Bayou at Galveston Road, Houston (e)	08075700	4.86	1965-72
Huntington Bayou Tributary at Cavalcade Street, Houston (e)	08075750	1.20	1965-72
Huntington Bayou at Falls Street, Houston (e)	08075760	2.75	1964-84
Halls Bayou at Deertrail Street at Houston (e)	08076200	8.69	1965-84
Carpenters Bayou at Cloverleaf (e)	08076900	25.8	1964, 1971-93
Clear Creek near Pearland (d)	08077000	38.8	1944-45, 1946-60, 1963-94
Clear Creek Tributary at Hall Road, Houston (e)	08077100	1.31	1965-86
Clear Creek at Friendswood (d)	08077540	99.6	1994-97
Cowart Creek near Friendswood (e)	08077550	18	1965-74
Clear Creek near Friendswood (e)	08077600	126	1966-94
Armand Bayou near Genoa (e)	08077620	18.2	1968, 1971-73
Highland Bayou at Hitchcock (e)	08077700	15.6	1963-82
Highland Bayou Tributary near Texas City (e)	08077750	1.97	1966-73
Highland Bayou near Texas City (e)	08077780	20.8	1965-88
Flores Bayou near Danbury (e)	08078700	23.3	1967-72
Oyster Creek near Angleton (d)	08079000	171	1945-80
North Fork Double Mountain Fork Brazos River at Lubbock (d)	08079500	5,300	1940-49,
North Fork Double Mountain Fork Brazos River above Buffalo Springs nr Lubbock (e)	08079530	29.3	1952-54, 1957, 1962, 1967-76
Buffalo Springs Lake near Lubbock (e)	08079550	236	1967-77
Barnum Springs Draw near Post (e)	08079570	4.99	1965-73
North Fork Double Mountain Fork Brazos River near Post (d)	08079575	438	1984-93
Rattlesnake Creek near Post (e)	08079580	2.75	1966-74
Double Mountain Fork Brazos River near Rotan (d)	08080000	8,536	1950-51
Guest-Flowers Draw near Aspermont (e)	08080510	3.02	1965-74
McDonald Creek near Post (d)	08080540	103	1966-78
Running Water Draw at Plainview (d)	08080700	1,291	1939-53, 1957-78
Callahan Draw near Lockney (e)	08080750	37.5	1966-77
White River near Crosbytown (e)	08080800	529	1951-64
White River below falls near Crosbytown (e)	08080900	529	1951-64
Salt Fork Brazos River at Farm Road 1081 near Clairemont (e)	08080916	1,135	1968-77
Red Mud Creek near Spur (e)	08080918	65.1	1967-74
Salt Fork Brazos River at State Highway 208 near Clairemont (e)	08080940	1,357	1968-77
Duck Creek near Girard (d)	08080950	431	1965-89
Salt Fork Brazos River at U.S. Highway 380 near Jayton (e)	08080959	1,797	1968-77
Salt Fork Brazos River near Peacock (d)	08081000	4,619	1950-51, 1965-86
Short Croton Creek at mouth near Jayton (e)	08081050	18.1	1959-82
Croton Creek below Short Croton Creek near Jayton (e)	08081100	250	1959-82
Croton Creek near Jayton (d)	08081200	290	1959-86
Salt Croton Creek at Weir D near Aspermont (e)	08081400	55.5	1957-76
Haystack Creek at Weir E near Aspermont (e)	08081450	15.1	1957-77
Salt Croton Creek near Aspermont (d)	08081500	64.30	1957-77
Stinking Creek near Aspermont (d)	08082100	88.80	1966-83
North Croton Creek near Knox City (d)	08082180	251	1965-86
Millers Creek Reservoir near Bomartin (d)	08082800	240	1975-94
North Elm Creek near Throckmorton (e)	08082900	3.58	1965-77
Elm Creek near Profitt (e)	08082950	275	1969-85
Brazos River near Graham (d)	08083000	16,830	1916-20

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Clear Fork Brazos River at Hawley (d)	08083240	1,416	1968-89
Mulberry Creek near Hawley (d)	08083245	205	1968-89
Elm Creek near Abilene (d)	08083300	133	1964-79
Little Elm Creek near Abilene (d)	08083400	39.10	1964-79
Cat Claw Creek at Abilene (d)	08083420*	13	1971-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene (d)	08083470	119	1971-84
Paint Creek near Haskell (d)	08085000	914	1950-51
Humphries Draw near Haskell (e)	08085300	3.51	1965-77
Clear Fork Brazos River at Crystall Falls (d)	08086000	4,323	1922-29
Hubbard Creek near Sedwick (d)	08086015	128	1964-66
Hubbard Creek at Highway 380 near Moran (e)	08086020	152	1963-76
Deep Creek near Putnam (e)	08086030	33.8	1963-66
Brushy Creek near Putnam (e)	08086040	27.6	1963-66
Mexia Creek near Putnam (e)	08086045	67.0	1963-66
Deep Creek at Moran (d)	08086050	228	1963-75
Hubbard Creek near Albany (d)	08086100	454	1962-75
Salt Prong Hubbard Creek below Lake McCarty near Albany (e)	08086110	45.5	1963-66
Salt Prong Hubbard Creek at U.S. 380 near Albany (d)	08086120	61	1964-68
Cook Creek near Albany (e)	08086130	11.3	1963-76
North Fork Hubbard Creek near Albany (d)	08086150	39.3	1963-90
Salt Prong Hubbard Creek near Albany (d)	08086200	115	1962-63
Snailum Creek near Albany (d)	08086210	22.90	1964-66
Big Sandy Creek near Eolian (e)	08086220	91.4	1963-76
Battle Creek near Putnam (e)	08086230	32.0	1963-66
Battle Creek near Moran (d)	08086235	108	1967-68
Battle Creek near Eolian (e)	08086240	137	1963-66
Pecan Creek at FM 1853 near Eolian (e)	08086250	6.95	1963-66
Pecan Creek near Eolian (d)	08086260	26.40	1967-75
Big Sandy Creek near Breckenridge (e)	08086300	288	1962-75
Hubbard Creek near Breckenridge (d)	08086500	1,089	1955-86
Clear Fork Brazos River near Crystal Falls (e)	08087000	5,658	1916-20, 1928-51
Clear Fork Brazos River near Eliasville (d)	08087300	5,697	1916-20, 1924-25, 1928-51, 1962-82
Salt Creek at Olney (d)	08088100	11.80	1958-77
Salt Creek near Newcastle (d)	08088200	120	1958-60
Briar Creek near Graham (d)	08088300	24.20	1958-89
Brazos River at Farm Road 1287 near Graham (e)	08088420	13,432	1970-77
Big Cedar Creek near Ivan (d)	08088450	97	1965-89
Brazos River at Morris Sheppard Dam near Graford (d)	08088600	14,030	1990-94
Elm Creek Tributary near Graford (e)	08089100	1.10	1965-74
Lake Palo Pinto near Santo (e)	08090300	461	1964-82
Palo Pinto Creek near Santo (d)	08090500	573	1925, 1951-76
Cidwell Branch near Granbury (e)	08090850	3.37	1966-73
Morris Branch near Bluff Dale (e)	08091200	0.06	1965-73
Panther Branch near Tolar (e)	08091700	7.82	1966-74
Lake Pat Cleburne near Cleburne (d)	08091900	100	1965-85
Nolan River at Blum (d)	08092000*	282.0	1924-87
Brazos River near Whitney (d)	08093000	17,648	1939-74
Bond Branch near Hillsboro (e)	08093200	0.36	1965-74
Hackberry Creek at Hillsboro (d)	08093250	57.9	1980-92
Hackberry Creek below Hillsboro (e)	08093260	86.8	1980-92
Aquilla Creek above Aquilla (d)	08093360*	255.0	1980-92
Cobb Creek near Abbott (d)	08093400	12.40	1967-79
Aquilla Creek at RR bridge near Aquilla (e)	08093530	345	1976-85
Aquilla Creek at Farm Road 2114 near Aquilla (e)	08093540	351	1976-85
Aquilla Creek at Farm Road and 1858 near Ross (e)	08093560	392	1976-85

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Aquilla Creek at Farm Road 933 near Ross (e)	08093580	397	1976-85
North Bosque River at Stephenville (d)	08093700	95.90	1958-79
Green Creek SWS #1 near Dublin (d)	08094000	4.19	1955-77
Green Creek near Alexander (d)	08094500	45.40	1958-73
South Bosque River near McGregor (e)	08095220	15.9	1967-73
Willow Branch at McGregor (e)	08095250	2.52	1966-73
Middle Bosque River near McGregor (d)	08095300*	182.0	1959-86
Hog Creek near Crawford (d)	08095400*	78.0	1959-86
South Bosque River near Speegleville (d)	08095500	386	1924-30
Bosque River near Waco (d)	08095600	1,656	1960-82
Box Branch at Robinson (e)	08096550	0.34	1965-73
Cow Bayou SWS No. 4 (inflow) near Bruceville (e)	08096800	5.04	1958-75
Cow Bayou at Mooreville (d)	08097000	83.50	1958-75
Brazos River near Marlin (d)	08097500	30,211	1939-51
Deer Creek at Chilton (d)	08098000	84.50	1934-36
Little Pond Creek at Burlington (d)	08098300	23	1963-82
Leon River near De Leon (d)	08099100*	479.0	1960-87
Sabana River near De Leon (d)	08099300*	264.0	1960-87
Sabana River Tributary near De Leon (e)	08099350	0.48	1966-74
Leon River near Hasse (d)	08099500	1,261	1939-91
Eidson Creek near Hamilton (e)	08100100	2.91	1965-73
Bermuda Branch near Gatesville (e)	08100400	0.50	1966-73
Hoffman Branch near Hamilton (e)	08100800	5.56	1966-74
Cowhouse Creek near Killeen (d)	08101500	667	1925, 1939-42
Nolan Creek at Belton (d)	08102600	112	1974-82
School Branch near Lampasas (e)	08102900	0.90	1966-73
Fleece Branch near Lampasas (e)	08103450	1.08	1965-74
Lampasas River at Youngsport (d)	08104000	1,240	1924-80
Lampasas River near Belton (d)	08104100*	1,321	1963-89
Salado Creek above Salado (e)	08104290*	134	1985-88
Salado Creek below Salado Springs (d)	08104310*	136	1985-87
N. Fork San Gabriel River upstream from State Highway 418 at Georgetown (e)	08104795*	271	1985-88
North Fork San Gabriel River at Georgetown (d)	08104800	268	1964-68
South Fork San Gabriel River near Bertram (e)	08104850	8.9	1967-74
San Gabriel River at Georgetown (d)	08105000*	405	1924-25, 1934-73, 1984-87
Berry Creek at State Hwy. 971 near Georgetown (d)	08105200*	117	1985-87
San Gabriel River near Weir (d)	08105300*	563	1977-90
San Gabriel River near Circleville (d)	08105400	599	1924-34, 1967-77
Avery Branch near Taylor (e)	08105900	3.52	1966-73
Brushy Creek at Coupland (d)	08106000	205.0	1924-26
Brushy Creek near Rockdale (d)	08106300	505	1967-80
San Gabriel River near Rockdale (d)	08106310	1,359	1975-92
Big Elm Creek near Temple (d)	08107000	74.70	1934-36
Big Elm Creek near Buckholts (d)	08107500	171	1934-36
North Elm Creek near Ben Arnold (d)	08108000	32.20	1935-36
North Elm Creek near Cameron (d)	08108200	44.80	1963-73
Little Branch near Bryan (e)	08108800	0.14	1966-73
Brazos River near Bryan (d)	08109000	39,515	1899-1903, 1918-92
Brazos River near College Station (d)	08109500	30,033	1899-1902, 1918-25
Yegua Creek near Somerville (d)	08110000	1,009	1924-92
Brazos River at Washington (e)	08110200	41,192	1966-95
Plummers Creek at Mexia (e)	08110350	4.42	1965-73
Navasota River near Groesbeck (d)	08110400	311	1965-79
Navasota River near Bryan (d)	08111000	1,454	1951-94, 1994-97
Navasota River near College Station (d)	08111010	1,809	1977-85

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Burton Creek at Villa Maria Road, Bryan (d)	08111025	1.33	1968-70
Hudson Creek near Bryan (d)	08111050	1.94	1968-70
Winkleman Creek near Brenham (e)	08111100	0.75	1965-73
Piney Creek near Bellville (e)	08111600	30.7	1948, 1955, 1958, 1964-89
West Fork Mill Creek near Industry (e)	08111650	15.3	1964-89
Mill Creek near Bellville (d)	08111700	376	1963-93
Brazos River near San Felipe (d)	08112000	35,100	1939-57
Brazos River near Wallis (e)	08112200	44,700	1974-75
Brazos River Authority Canal A near Fulshear (d)	08112500	N/A	1932-54, 1958-73
Richmond Irrigation Co. Canal near Richmond (d)	08113500	N/A	1932-54, 1956-78
Brazos River near Juliff (d)	08114500	45,084	1949-69
Seabourne Creek near Rosenberg (e)	08114900	5.78	1968-74
Fairchild Creek near Needville (d)	08115500	26.20	1947-55
Big Creek near Guy (d)	08116000	116	1947-50
Dry Creek near Rosenberg (d)	08116400	8.65	1959-79
Dry Creek near Richmond (d)	08116500	12.20	1947-50, 1957-58
San Bernard River near West Columbia (e)	08117700	766	1949, 1971-77
Mound Creek Tributary at Guy (e)	08117800	1.48	1966-73
Big Boggy Creek near Wadsworth (d)	08117900	10.30	1970-77
Bull Creek near Ira (d)	08118500	26.30	1948-54, 1959-62
Colorado River below Bull Creek near Ira (e)	08118600	3,524	1975-78
Bluff Creek near Ira (d)	08119000	42.60	1948-65
Bluff Creek at mouth near Ira (e)	08119100	44.1	1975-78
Colorado River near Ira (d)	08119500	3,483	1948-52, 1959-89
Deep Creek near Dunn (d)	08120500	198	1953-86
Morgan Creek near Westbrook (d)	08121500	273	1954-63
Graze Creek near Westbrook (d)	08122000	21.70	1954-59
Morgan Creek near Colorado City (d)	08122500	313	1947-49
Champlin Creek near Colorado City (d)	08123500	198	1948-59
Sulphur Springs Draw near Wellman (e)	08123620	41.80	1966-74
Beals Creek above Big Spring (d)	08123650	9,319	1959-79
Beals Creek at Big Spring (d)	08123700	9,341	1957-59
Beals Creek near Coahoma (d)	08123720	9,383	1983-88
Coahoma Draw Tributary near Big Spring (e)	08123750	2.38	1966-74
Bull Creek Tributary near Forsan (e)	08123760	0.4	1966-74
Colorado River near Silver (d)	08123900	14,997	1957-70
Bitter Creek near Silver (e)	08123920	4.3	1967-74
Salt Creek Tributary near Hylton (e)	08125450	0.25	1966-74
Oak Creek Reservoir near Blackwell (e)	08125500	238	1953-83
Fish Creek Tributary near Hylton (e)	08126300	0.25	1966-71
Colorado River at Ballinger (d)	08126500	16,413	1907-79
Dry Creek near Christoval (e)	08127100	0.79	1965-73
South Concho Irrigation Co. Canal at Christoval (d)	08127500	N/A	1940-83
South Concho River at Christoval (d)	08128000*	412.6	1931-95
Middle Concho River above Tankersley (d)	08128400*	2,084	1962-95
Middle Concho River near Tankersley (d)	08128500	2,653	1930-61
Spring Creek above Tankersley (d)	08129300*	424.7	1961-95
Dove Creek Springs near Knickerbocker (d)	08129500*	N/A	1944-58
Dove Creek at Knickerbocker (d)	08130500*	226.43	1961-95
Spring Creek near Tankersley (d)	08131000	699	1930-60

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
South Concho River above Pecan Creek near San Angelo (e)	08131300	470	1963-84
Pecan Creek near San Angelo (d)	08131400	81.10	1961-86
Tom Green Co. WCID No. 1 Canal near San Angelo (d)	08131600	N/A	1963-81
South Concho River at San Angelo (d)	08132500	3,866	1932-53
Quarry Creek near Sterling City (e)	08133300	3.25	1965-73
North Concho River at Sterling City (d)	08133500*	588.0	1939-87
Broome Creek near Broome (e)	08133800	0.29	1965-73
Nolke Station Creek near San Angelo (e)	08134300	0.59	1965-73
Gravel Pit Creek near San Angelo (e)	08134400	0.19	1965-74
North Concho River at San Angelo (d)	08135000	1,525	1916-31, 1947-90
Puddle Creek near Veribest (e)	08136200	12.0	1966-73
Frog Pond Creek near Eden (e)	08136300	1.96	1967-73
Mukewater Creek SWS No. 10A near Trickham (e)	08136900	15.3	1965-72
Mukewater Creek SWS No. 9 near Trickham (e)	08137000	4.02	1961-72
Mukewater Creek at Trickham (d)	08137500	70	1951-73
Deep Creek SWS No. 3 near Placid (e)	08139000	3.42	1954-60
Deep Creek near Mercury (d)	08139500	43.90	1954-73
Deep Creek SWS No. 8 near Mercury (e)	08140000	5.14	1952-71
Dry Prong Deep Creek near Mercury (d)	08140500	8.31	1951-71
Lake Clyde near Clyde (e)	08140600	36.9	1970-85
Pecan Bayou near Cross Cut (d)	08140700	532	1968-79
Jim Ned Creek near Coleman (d)	08140800	333	1965-80
McCall Branch near Coleman (e)	08141100	2.17	1966-73
Hords Creek near Valera (d)	08141500	54.20	1947-91
Hords Creek at Coleman (d)	08142000	107	1941-70
Brown County WID No. 1 Canal near Brownwood (d)	08142500	N/A	1950-83
Pecan Bayou at Brownwood (d)	08143500	1,660	1917-18, 1924-83
Brown Creek Tributary near Goldthwaite (e)	08143700	2.48	1966-73
Noyes Canal at Menard (d)	08144000	N/A	1924-83
Brady Creek near Eden (d)	08144800	101	1962-85
Brady Creek at Brady (d)	08145000	588	1939-86
Brady Creek Tributary near Brady (e)	08145100	4.05	1967-73
Lake Buchanan near Burnet (e)	08148000	31,910	1937-90
North Llano River near Junction (d)	08148500	914	1915-77
Llano River Tributary near London (e)	08150200	0.58	1966-73
Stone Creek Tributary near Art (e)	08150900	0.40	1966-73
Llano River near Castell (d)	08151000	3,747	1924-39
Johnson Creek near Valley Spring (e)	08151300	5.66	1967-73
Sandy Creek near Kingsland (d)	08152000	327	1967-93
Little Flatrock Creek near Marble Falls (e)	08152700	3.20	1966-74
Spring Creek near Fredricksburg (e)	08152800	15.20	1967-73
Pedernales River at Stonewall (d)	08153000	647	1924-34
Cane Branch at Stonewall (e)	08153100	1.37	1965-71
Pedernales River near Spicewood (d)	08154000	1,294	1924-39
Lake Travis near Austin (d)	08154500	38,755	1940-90
Colorado River below Mansfield Dam, Austin (d)	08154510	38,755	1975-90
West Bull Creek at Loop 360 near Austin (e)	08154750	6.77	1976-82
Bull Creek at FM 2222, Austin (e)	08154760	30.4	1975-78
Bee Creek at West Lake Drive near Austin (e)	08154950	3.28	1980-82
Barton Creek near Camp Craft Road near Austin (d)	08155260	109	1982-89
Skunk Hollow Creek below Pond 1 at Austin (e)	08155400	0.12	1982-84
West Bouldin Creek at Riverside Drive, Austin (e)	08155550	3.12	1976-82
Shoal Creek at Steck Avenue, Austin (e)	08156650	2.79	1975-82
Shoal Creek at Northwest Park at Austin (d)	08156700	6.52	1975-84
Shoal Creek at White Rick Drive, Austin (e)	08156750	12.30	1975-82
Waller Creek at 38th Street, Austin (d)	08157000	2.31	1955-80
Waller Creek at 23rd Street, Austin (d)	08157500	4.13	1955-80
Walnut Creek at Farm-Market 1325 near Austin (e)	08158100	12.60	1975-88
Walnut Creek at Dessau Road, Austin (e)	08158200	26.20	1975-88

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Ferguson Branch at Springdale Road, Austin (e)	08158300	1.63	1978-82
Little Walnut Creek at Georgian Drive, Austin (e)	08158380	5.22	1975-88
Little Walnut Creek at IH 35, Austin (e)	08158400	5.57	1975-82
Little Walnut Creek at Manor Road, Austin (e)	08158500	12.1	1975-82
Walnut Creek at Southern Pacific Railroad bridge, Austin (e)	08158640	53.5	1975-86
Onion Creek at Buda (e)	08158800	166	1961-78,
" " " (d)			1979-83,
			1992-95
Bear Creek at Farm-Market Road 1626 near Manchaca (e)	08158820	24.0	1979-83
Little Bear Creek at Farm-Market Road 1626 near Manchaca (d)	08158825	21.0	1979
Slaughter Creek at FM 2304 near Austin (e)	08158860	23.1	1978-83
Boggy Creek (South) at Circle S Road, Austin (e)	08158880	3.58	1976-88
Fox Branch near Oak Hill (e)	08158900	0.12	1965-73
Williamson Creek at Oak Hill (d)	08158920	6.30	1978-93
Williamson Creek at Jimmy Clay Road, Austin (d)	08158970	27.60	1975-85
Onion Creek below Del Valle (e)	08159100	339	1962-75
Wilbarger Creek near Pflugerville (d)	08159150	4.6	1963-80
Big Sandy Creek near McDade (d)	08159165	38.70	1979-85
Big Sandy Creek near Elgin (d)	08159170	63.80	1979-85
Dogwood Creek near McDade (e)	08159180	0.53	1980-85
Dogwood Creek at Highway 95 near McDade (e)	08159185	5.03	1980-85
Reeds Creek near Bastrop (e)	08159450	5.22	1967-73
Dry Creek at Buescher Lake near Smithville (d)	08160000	1.48	1940-66
Colorado River at La Grange (d)	08160500	40,430	1939-55
Colorado River above Columbus (d)	08160700	41,403	1983-85
Dry Branch Tributary near Altair (e)	08161580	0.68	1966-73
Little Robin Slough near Matagorda (e)	08162530	3.4	1969
Cashs Creek near Blessing (e)	08162650	14.8	1969-77
East Carancahua Creek near Blessing (e)	08162700	81.2	1968,
			1970-83
West Carancahua Creek near Laward (e)	08162800	57.1	1970-76
Navidad River near Ganado (d)	08164500	826	1939-80
Guadalupe River above Kerrville (e)	08166150	488	1976-79
Turtle Creek Tributary near Kerrville (e)	08166300	0.46	1966-74
Guadalupe River near Comfort (d)	08166500	762	1918-32
Rebecca Creek near Spring Branch (d)	08167600	10.90	1960-79
Blieders Creek at New Braunfels (e)	08168600	16.0	1962-89
Panther Canyon at New Braunfels (e)	08168700	0.73	1962-89
Trough Creek near New Braunfels (e)	08168720	0.48	1966-74
W.P. Dry Comal Creek Tributary near New Braunfels (e)	08168750	0.32	1966-74
Dry Comal Creek at New Braunfels (e)	08168800	N/A	1962-74
Guadalupe River at New Braunfels (d)	08169500*	1,652	1915-27
Walnut Branch near Seguin (e)	08169750	5.46	1967-74
East Pecan Branch near Gonzales (e)	08169850	0.24	1965-74
San Marcos River at San Marcos (d)	08169950	83.7	1915-21
West Elm Creek near Niederwald (e)	08172100	0.44	1965-74
Plum Creek near Lockhart (d)	08172500	184	1925-30
Plum Creek near Luling (d)	08173000	309	1930-93
San Marcos River at Ottine (d)	08173500	1,249	1915-43
Peach Creek below Dilworth (d)	08174600	460	1959-79
Guadalupe River below Cuero (d)	08176000	4,923	1903-07,
			1916-19,
			1921-36
Irish Creek near Cuero (e)	08176200	15.5	1967-74
Three Mile Creek near Cuero (e)	08176600	0.48	1966-74
Coleto Creek Reservoir inflow (Guadalupe diversion) near Schroeder (d)	08176990	357	1980-94
Coleto Creek near Schroeder (d)	08177000	369	1930-34,
			1953-79
Olmos Creek Tributary at FM 1535 at Savano Park (e)	08177600	0.33	1969-81
Olmos Creek at Dresden Drive, San Antonio (d)	08177700*	21.2	1968-81

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Olmos Reservoir at San Antonio (e)	08177800	32.4	1968-71, 1976-89. 1992-95
San Antonio River at Woodlawn Avenue, San Antonio (e)	08177860	36.4	1989-95
San Antonio River at Dolorosa, San Antonio (d)	08177920	N/A	1980-86
San Antonio River at San Antonio (d)	08178000	41.8	1895-1906, 1915-29, 1939-97
Alazan Creek at St. Cloud Street, San Antonio (e)	08178300	3.26	1969-79
San Pedro Creek at Furnish St., San Antonio (d)	08178500*	2.60	1916-29
Harlandale Creek at W. Harding Street, San Antonio (e)	08178555	2.43	1977-81
Panther Springs Creek at FM 2696 near San Antonio (e)	08178600	9.54	1969-77
Lorence Creek at Thousand Oaks Blvd., San Antonio (e)	08178620	4.05	1980-84
West Elm Creek at San Antonio (e)	08178640	2.45	1976-88
East Elm Creek at San Antonio (e)	08178645	2.33	1976-81
Salado Creek Tributary at Bitters Road, San Antonio (e)	08178690	0.26	1969-81
Salado Creek at Rittman Road, San Antonio (e)	08178720	137.1	1968-81
Salado Creek Tributary at Bee Street, San Antonio (e)	08178736	0.45	1970-77
Salado Creek at E. Houston Street, San Antonio (e)	08178740	181	1968-81
Salado Creek at U.S. Highway 87, San Antonio (e)	08178760	186	1968-81
Salado Creek at Southcross Blvd., San Antonio (e)	08178780	188	1968-81
Bandera Creek Tributary near Bandera (e)	08178900	0.27	1966-74
Medina River near Pipe Creek (d)	08179000	474	1923-35, 1953-82
Red Bluff Creek near Pipe Creek (d)	08179100	56.30	1956-81
Medina River Tributary near Pipe Creek (e)	08179200	0.30	1966-74
Medina Lake near San Antonio (e)	08179500	634	1913-94
Medina Canal near Riomedina (e)	08180000	N/A	1922-34, 1957-93
Medina River near Riomedina (d)	08180500	650	1922-34, 1953-73
Medio Creek at Pearsall Road, San Antonio (e)	08180750	47.9	1987-95
Leon Creek Tributary at FM 1604, San Antonio (e)	08181000	5.57	1968-80
French Creek Tributary near Helotes (e)	08181200	1.08	1966-74
Ranch Creek near Helotes (d)	08181410		1978
Leon Creek Tributary at Kelly Air Force Base (d)	08181450	1.19	1969-79
Calaveras Creek SWS No. 6 (inflow) near Elmendorf (e)	08182400	7.01	1957-77
Calaveras Creek near Elmendorf (d)	08182500	77.20	1954-71
San Antonio River at Calaveras (d)	08183000	1,786	1918-25
Cibolo Creek near Boerne (d)	08183900	68.4	1963-95
Cibolo Creek near Bulverde (d)	08184000	198	1946-66
Cibolo Creek above Bracken (d)	08184500	250	1946-51
Cibolo Creek at Sutherland Springs (d)	08185500	665	1924-29
Ecleto Creek near Runge (d)	08186500	239	1962-89
Escondido Creek SWS No. 1 (inflow) near Kenedy (e)	08187000	3.29	1955-73
Escondido Creek at Kenedy (d)	08187500	72.40	1954-73
Escondido Creek SWS No. 11 (inflow) near Kenedy (e)	08187900	8.45	1959-77
Dry Escondido Creek near Kenedy (d)	08188000	9.43	1954-59
Baugh Creek at Goliad (e)	08188400	3.02	1966-74
Guadalupe-Blanco River Authority Calhoun Canal-Flume No. 2 near Long Mott (d)	08188750	N/A	1972-86
Guadalupe River at State Highway 35 near Tivoli (e)	08188810	10,280	1975-82
Medio Creek near Beeville (d)	08189300	204	1962-77
Olmos Creek Tributary near Skidmore (e)	08189600	0.58	1966-73
Chiltipin Creek at Sinton (d)	08189800	128	1970-91
Nueces River near Uvalde (d)	08191500	1,930	1928-39
Nueces River near Cinonia (d)	08192500	2,150	1915-25
Plant Creek near Tilden (e)	08194550	0.36	1965-74
Nueces River at Simmons (d)	08194600	8,561	1965-77
Frio River at Knippa (d)	08195700	N/A	1953

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Dry Frio River at Knippa (d)	08196500	179	1953
East Elm Creek near Sabinal (e)	08198900	10.6	1967-74
Frio River near Frio Town (d)	08199700	1,460	1924-27
Hondo Creek near Hondo (d)	08200500	132	1953-64
Bone Creek near Hondo (e)	08200900	0.19	1965-74
Seco Creek near Utopia (d)	08202000	53.20	1952-61
Seco Creek Reservoir inflow near Utopia (d)	08202450	59.5	1991-98
Seco Creek near D'Hanis (d)	08202500	87.40	1952-64
Parkers Creek Reservoir (d)	08202800	10.0	1991-99
Leona River Tributary near Uvalde (e)	08203500	1.21	1966-74
Leona River Spring Flow near Uvalde (d)	08204000*	1.21	1939-77
Leona River near Divot (d)	08204500	565	1924-29
Frio River at Calliham (d)	08207000	5,491	1925-26, 1932-81
Rutledge Hollow Creek near Poteet (e)	08207200	9.33	1966-74
Atascosa River near McCoy (d)	08207500	530	1951-57
Lucas Creek near Pleasanton (e)	08207700	32.80	1966-73
Ramirena Creek near George West (d)	08210300	84.40	1968-72
Lagarto Creek near George West (d)	08210400	155	1972-89
Nueces River below Mathis (d)	08211100	16,726	1966-67
Pintas Creek Tributary near Banquete (e)	08211550	3.28	1966-74
Hamon Creek near Freer (e)	08211600	0.73	1965-73
San Diego Creek at Alice (d)	08211800	319	1964-89
Lake Alice at Alice (e)	08211850	150	1965-86
San Fernando Creek near Alice (d)	08212000	518	1962-63
North Las Animas Creek Tributary near Freer (e)	08212320	0.07	1969-74
Rio Grande at Vinton Bridge near Anthony (d)	08363840	28,680	1969-74
Northgate Reservoir at El Paso (e)	08365540	6.89	1973-75
Range Reservoir at El Paso (e)	08365545	11.89	1973-75
Franklin Canal at El Paso (d)	08365550	N/A	1969-72
McKelligon Canyon at El Paso (d)	08365600	2.30	1958-77
Government Ditch at El Paso (d)	08365800	6.40	1958-77
Rio Grande at Jaurez, MX (d)	08366000	29,350	1938-56
Riverside Canal near Socorro (d)	08366400	37,830	1969-72
Rio Grande at Island Station near El Paso (d)	08366500	29,743	1938-60
Rio Grande at Tornillo Branch near Fabens (d)	08367000	N/A	1924-38
Tornillo Drain at mouth near Tornillo (d)	08368000	N/A	1969-72
Tornillo Canal near Tornillo (d)	08368300	N/A	1969-72
Hudspeth Feeder Canal near Tornillo (d)	08368900	N/A	1969-72
Rio Grande at County Line Station near El Paso (d)	08369500	30,610	1938-60
Camo Rice Arroyo Tributary near Fort Hancock (e)	08370200	2.35	1966-74
Wild Horse Creek Tributary near Van Horn (e)	08370800	0.74	1966-73
Cibolo Creek near Presidio (d)	08373200	276	1971-77
Rio Grande above Presidio (lower Station) (d)	08373500	N/A	1901-13, 1924-54
Sanderson Canyon at Sanderson (d)	08376300	195	1968-80
Rio Grande at Langtry (d)	08377500	84,795	1900-14, 1920, 1924-60
Rio Grande Tributary near Langtry (e)	08377600	0.32	1966-74
Delaware River Tributary near Orla (e)	08407800	1.6	1966-74
Pecos River near Angeles (d)	08409500	20,540	1914-37
Salt Screwbean Draw near Orla (d)	08411500	464	1939-41, 1944-57
Pecos River near Mentone (d)	08414000	21,650	1922-26, 1969-73
Reeves County WID No. 2 Canal near Mentone (d)	08414500	N/A	1922-25, 1939-57, 1964-90
Ward County WID No. 3 Canal near Barstow (d)	08415000	N/A	1939-57, 1964-90
Pecos River above Barstow (d)	08416500	21,800	1916-21

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Ward County Irrigation District No. 1 Canal near Barstow (d)	08418000	N/A	1922-25, 1939-57, 1964-90
Pecos River at Pecos (d)	08420500	22,100	1898-1907, 1914-15, 1922-26, 1939-55
Madera Canyon near Toyahvale (d)	08424500	53.80	1932-49
Phantom Lake Spring near Toyahvale (d)	08425500*	N/A	1932-34, 1942-66
Giffin Springs at Toyahvale (d)	08427000*	N/A	1932-33
San Solomon Springs at Toyahvale (d)	08427500	N/A	1932-34, 1941-65
West Sandia Spring at Balmorhea (d)	08429000	N/A	1932-33
East Sandia Spring at Balmorhea (d)	08430000	N/A	1932-33
Toyah Creek near Pecos (d)	08431000	1,024	1940-41, 1944-45
Salt Draw near Pecos (d)	08431500	1,882	1939-41, 1944-45
Limpia Creek above Fort Davis (d)	08431700	52.40	1966-86
Limpia Creek below Fort Davis (d)	08431800	227	1962-77
Limpia Creek near Fort Davis (d)	08432000	303	1925-32
Barrilla Draw near Saragosa (d)	08433000	612	1925-26, 1932, 1976-83
Toyah Creek below Toyah Lake near Pecos (d)	08434000	3,709	1939-51
Grandfalls-Big Valley Canal near Barstow (d)	08435000	N/A	1922-26, 1939-57, 1964-76
Pecos River below Barstow (d)	08435500	25,980	1939-41
Toronto Creek near Alpine (d)	08435600	27.90	1971-76
Alpine Creek at Alpine (d)	08435620	18.10	1971-76
Moss Creek near Alpine (d)	08435660	11.30	1971-76
Sunny Glen Canyon near Alpine (d)	08435700	29.70	1968-77
Coyanosa Draw near Fort Stockton (d)	08435800	1,182	1964-77
Pecos County WID No. 2 (Upper Div.) Canal near Grandfalls (d)	08436500	N/A	1922-25, 1939-57, 1964-90
Courtney Creek Tributary near Fort Stockton (e)	08436800	0.44	1966-74
Pecos County WID No. 2 Canal near Imperial (d)	08437500	N/A	1940-57, 1964-90
Lake Leon Tributary near Fort Stockton (e)	08437550	1.59	1966-74
Pecos County WID No. 3 Canal near Imperial (d)	08437600	N/A	1940-57, 1964-90
Monument Draw Tributary at Pyote (e)	08437650	178	1966-74
Ward County WID No. 2 Canal near Grand Falls (d)	08437700	N/A	1939-57, 1964-90
Pecos River near Grand Falls (d)	08438100	27,810	1916-26
Pecos River below Grand Falls (d)	08441500	27,820	1921-26, 1939-56
Three Mile Mesa Creek near Fort Stockton (e)	08444400	1.04	1966-74
Comanche Springs at Fort Stockton (d)	08444500	N/A	1936-64
Pecos River near Sheffield (d)	08447000	31,600	1922-25, 1940-49
Independence Creek near Sheffield (d)	08447020	763	1974-85
Howards Creek Tributary near Ozona (e)	08447200	7.53	1967-73
Pecos River near Shumla (d)	08447400	35,162	1955-60
Pecos River near Comstock (d)	08447500	35,298	1900-54
Goodenough Springs near Comstock (e)	08448500	N/A	1929-60
Sonora Field Creek at Sonora (e)	08448800	2.60	1965-71
Devils River near Juno (d)	08449000	2,730	1925-49, 1964-73

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Devils River near Comstock (d)	08449300	3,903	1955-58
Rough Canyon Tributary near Del Rio (e)	08449470	7.90	1967-73
Devils River near Del Rio (d)	08449500	4,185	1900-14, 1924-57
Evans Creek Tributary near Del Rio (e)	08449600	0.39	1966-73
Devils River near mouth, Del Rio (d)	08450500	4,305	1954-60
Rio Grande near Del Rio (d)	08452500	123,303	1900-15, 1920, 1924-54
San Felipe Creek near Del Rio (e)	08453000	46.0	1931-60
Zorro Creek near Del Rio (e)	08453100	10.0	1966-74
East Perdido Creek near Brackettville (e)	08454900	3.39	1965-74
Pinto Creek near Del Rio (d)	08455000	249	1929-69, 1971-72
Rio Grande at San Antonio Crossing (d)	08458700	129,226	1952-60
Arroyo San Bartolo at Zapata (e)	08459600	0.61	1966-74
Rio Grande near Zapata (d)	08460500	163,344	1932-53
International Falcon Reservoir near Falcon Heights (d)	08461200	N/A	1953-60
Rio Grande at Roma (d)	08462500	166,464	1900-13, 1923-54
Rio Grande near Rio Grande City (d)	08465500	180,941	1932-54
Rio Grande Tributary near Rio Grande City (e)	08466100	1.20	1966-74
Rio Grande Tributary near Sullivan City (e)	08466200	0.40	1966-74
North Floodway South of McAllen (d)	08468000	N/A	1928-60
South Floodway South of McAllen (d)	08470000	N/A	1929-60
Rio Grande at Hildalgo (d)	08471500	176,100	1928-32, 1935, 1939, 1941-51
Rio Grande near Progreso Bridge (d)	08473300	176,228	1953-60
Rio Grande near San Beniot (d)	08473700	176,304	1953-60
Rio Grande at Matamoros, MX (d)	08474500	182,211	1900-13, 1923-54
Rio Grande near Brownsville (d)	08475000	176,333	1935-50

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

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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Canadian River at Tascosa	07227470	19,200	SC, T, Cl	1948-53,
		18,536	SC, T, pH, Cl	1969-77
Canadian River near Canadian	07228000	22,866	SC, T	1974-81
Prairie Dog Town Fork Red River near Wayside	07297910	4,221	SC, T	1969-81
Tule Creek near Silverton	07298200	1,150	SC, T, pH, Cl	1968-69
Prairie Dog Town Fork Red River near Brice	07298500	6,082	SC, pH, Cl, S	1949-51,
			T	1950-51
Mulberry Creek near Brice	07299000	534	SC, pH, Cl, S	1949-51
Prairie Dog Town Fork Red River near Lakeview	07299200	6,792	SC, T	1968-80,
			S	1979-80
Little Red River near Turkey	07299300	139	SC, T	1968-81,
			S	1979-81
Jonah Creek at Weir near Estelline	07299512	65.50	SC	1974-82
Jonah Creek below Weir near Estelline	07299514	66.60	SC	1974-76
Salt Creek near Estelline	07299530	142	SC	1974-79
Prairie Dog Town Fork Red River near Childress	07299540	7,725	SC, T	1968-82,
				1994-97
Salt Fork Red River near Hedley	07299930	868	SC, T, pH, Cl	1956-61
Salt Fork Red River near Wellington	07300000	1,222	SC, T, pH, Cl	1952-54,
			SC, T	1968-91
North Pease River near Childress	07307600	1,434	SC, T	1973-79
Middle Pease River near Paducah	07307750	1,086	SC	1973-79,
			T	1973-79,
			S	1994-97
Middle Pease River near Paducah	07307760	1,128	SC	1980-82,
			T	1980
Pease River near Childress	07307800	2,754	SC, T	1968-82,
				1994-97
Pease River near Crowell	07308000	3,037	SC	1942-43
Pease River near Vernon	07308200	3,488	SC,T	1999
Red River near Burkburnett	07308500	20,570	SC, T	1968-81
North Fork Wichita River near Paducah	07311600	540	SC, T	1968-76
North Fork Wichita River near Crowell	07311622	591	SC	1971-76
Middle Fork Wichita River near Truscott	07311648	161	SC	1970-76
Truscott Brine Lake near Truscott	07311669	26.2	SC, T	1985-90
North Fork Wichita River near Truscott	07311700	937	SC, T	1969-92
South Fork Wichita River near Guthrie	07311780	239	SC	1970-76
South Wichita River below Low-Flow Dam near Guthrie	07311783	223	SC, T	1987-89
South Fork Wichita River at Ross Ranch near Guthrie	07311790	499	SC	1971-79,
			Cl	1988-97,
			S	1978-79
Wichita River near Seymour	07311900	1,874	SC, T	1968-79
Beaver Creek near Electra	07312200	652	SC,T	1969-70
				1996-99
Little Wichita River near Archer City	07314500	481	SC	1953-55,
			T	1953-54
Little Wichita River near Henrietta	07314900	1,037	SC, DO	1999
Little Wichita River near Henrietta	07315000	1,037	SC, T, pH, Cl	1953-56,
			S, T	1959-66,
East Fork Little Wichita River near Henrietta	07315200	178	T	1954
Little Wichita River near Ringgold	07315400	1,350	SC, pH, Cl	1959-62

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Red River near Gainesville	07316000	30,872	SC, Cl	1944-46,
			SC, T, pH, Cl	1953-63,
			SC, T	1967-89,
Red River at Denison Dam near Denison	07331600	39,720	SC	1944-89,
			T	1945-89
Little Pine Creek near Kanawha	07336750	75.40	T	1980
Red River near De Kalb	07336820	47,348	SC, T	1968-91
South Sulphur River near Cooper	07342500	527	SC, T, pH, Cl	1959-66,
				1968-72,
			SC, T	1973-89
Sulphur River near Talco	07343200	1,365	SC, T, pH, Cl	1966-72,
			SC, T	1973-91
White Oak Creek near Talco	07343500	494	SC, T, pH, Cl	1966-72,
			SC, T	1973-91
Sulphur River near Darden	07344000	2,774	SC, T, pH, Cl	1947-50
Big Cypress Creek near Pittsburg	07344500	366	SC, T, pH, Cl	1968-72,
			SC, T	1973-89
Little Cypress Creek near Jefferson	07346070	675	SC, T, pH, Cl	1968-72,
			SC, T	1973-91
Sabine River near Emory	08017500	888	SC, T, pH, Cl	1952-54
Grand Saline Creek near Grand Saline	08018200	91.40	SC, T, pH, Cl	1968-73
Sabine River near Mineola	08018500	1,357	SC, T, pH, Cl	1968-72,
			SC, T	1973-92
Lake Fork Creek near Quitman	08019000	585	SC, T, pH, Cl	1968-72,
			SC, T	1973-89
Big Sandy Creek near Big Sandy	08019500	231	SC, T, S	1985-86
Sabine River near Beckville	08022040	3,589	SC, T	1952-98
Sabine River below Toledo Bend near Burkeville	08026000	7,482	SC, T	1969-86,
			C	1969-75
Sabine River near Bon Wier	08028500	8,229	SC, T, C	1969-84
Sabine River near Ruliff	08030500	9,329	SC	1945,
				1947-98
			T	1947-98
			pH, DO	1968-75,
			C	1970-76,
			Cl	1968
Cow Bayou near Mauriceville	08031000	83.30	SC, T, pH, Cl	1952-54,
			SC, T	1954-56
Neches River near Neches	08032000	1,145	SC, T	1974-91
Neches River near Alto	08032500	1,945	SC, T	1950-69
Neches River near Diboll	08033000	2,724	SC, T	1970-81
Neches River near Rockland	08033500	3,636	SC	1941-42,
				1946-47
Angelina River near Lufkin	08037000	1,600	SC, T, pH, Cl	1955-78,
			SC, T	1955-
Attoyac Bayou near Chireno	08038000	503	SC, T	1984-99
Sam Rayburn Reservoir near Jasper	08039300	3,449	SC, T	1964-84,
				1993-99
Angelina River below Sam Rayburn Dam near Jasper	08039400	3,449	SC, T	1964-79
Angelina River at SH 63 near Ebenezer	08039500	3,435	SC, T	1994-99
Village Creek near Kountze	08041500	860	SC, T	1968-70
Pine Island Bayou near Sour Lake	08041700	336	SC, T, pH, Cl	1968-72,
			SC, T	1973-89
Big Sandy Creek near Bridgeport	08044000	333	SC, T, S	1968-77,
Lake Worth above Fort Worth	08045400	2,064	pH, Cl	
Clear Fork Trinity River at Fort Worth	08047500	518	SC, pH, Cl	1949-52,
			T	1948-62

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Village Creek at Everman	08048970	84.5	SC, pH, T, DO	1990
Elm Fork Trinity River SWS # 6-0 near Muenster	08050200	0.77	S	1957-66
Elm Fork Trinity River near Muenster	08050300	46	SC	1967-68,
			T	1957-58,
				1966-68,
			S	1957-68
Clear Creek near Sanger	08051500	295	SC, T, S	1968-77
Little Elm Creek near Celina	08052650	46.70	SC	1967-75,
			T, S	1966-75
Little Elm Creek near Aubrey	08052700	75.50	SC	1967-75,
			T, S	1966-75
Elm Fork Trinity River near Lewisville	08053000	1,673	SC	1982-86,
			T	1976-86
Lavon Lake near Lavon	08060500	770	SC,T,CL	1969-74,
				1975,82,
				1995-99
Duck Creek near Garland	08061700	31.6	SC, pH, T, DO	1988-89
East Fork Trinity River above Seagoville	08061970	1,183	SC, T, pH, DO	1987-93
East Fork Trinity River at Seagoville	08061980	1,224	SC, pH, T, DO	1987-96
Cedar Creek near Mabank	08063000	733	SC, T, pH, Cl	1956-57
Pin Oak Creek near Hubbard	08063200	17.60	SC	1967-72,
			T	1957-60,
				1965-72,
			S	1957-60,
				1962-72
Richland Creek near Richland	08063500	734	SC, T, pH, Cl	1968-69,
			SC, T	1983-89
Chambers Creek near Corsicana	08064500	963	SC, T, pH, Cl	1961-70
Richland Creek near Fairfield	08064600	1,957	SC, T, pH, Cl	1956-66,
				1972,
			SC, T	1973-83
Trinity River near Oakwood	08065000	12,833	SC, T, pH, Cl	1948-54,
			SC, T, S	1977-81
Bedias Creek near Madisonville	08065800	321	SC, T	1985-87,
			S	1986
Long King Creek at Livingston	08066200	141	SC, T, pH, Cl	1963-72
Trinity River near Goodrich	08066250	16,844	SC, T	1970-73
Trinity River near Moss Bluff	08067100	17,738	SC, pH, Cl	1950-65
Old River near Cove	08067200	19.0	SC, pH, Cl	1950-65,
			T	1965
Trinity River at Anahuac	08067300	17,912	SC, pH, Cl	1950-65
West Fork San Jacinto River near Conroe	08068000	828	SC, T	1962-90,
			DO	1979-81
Panther Branch near Spring	08068450	34.50	S	1975-76
West Fork San Jacinto River near Humble	08069500	1,741	SC, Cl	1945-46
East Fork San Jacinto River near New Caney	08070200	388	SC,T	1984-99
San Jacinto River near Huffman	08071500	2,800	SC	1945-54,
			T	1949-54
Buffalo Bayou at West Belt Drive at Houston	08073600	307	SC, T	1979-81
Whiteoak Bayou at Main Street, Houston	08074598	127	SC, T, DO	1992-97
Buffalo Bayou at Main Street, Houston	08074600	469	SC, T, DO	1986-92
Sims Bayou at Houston	08075500	63.0	SC, T, DO	1994-97
Chocolate Bayou near Alvin	08078000	87.70	SC, T	1978-81
North Fork Double Mountain Fork Brazos River near Post	08079575	438	SC, T	1984-93
Double Mountain Fork Brazos River near Rotan	08080000	8,536	SC, T	1950-51
Double Mountain Fork Brazos River near Aspermont	08080500	8,796	SC, T, S	1949-51
			SC, T	1957-95

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
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
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
Salt Creek near Newcastle	08088200	120	SC, T	1958-60
Brazos River at Morris Sheppard Dam near Graford	08088600	23,596	SC	1942-91,
			T	1950-55,
				1966-91
Brazos River near Dennis	08090800	25,237	SC, T	1971-95
Brazos River at Whitney Dam near Whitney	08092600	27,189	SC, T	1947-97
Aquilla Creek above Aquilla	08093360	255	SC, T	1980-83
Aquilla Creek near Aquilla	08093500	308	SC, T	1966,
				1968-82
Brazos River near Highbank	08098290	30,436	T	1968-84
Leon River near Eastland	08098500	235	SC, T	1950-53
Leon River near Hasse	08099500	1,261	SC, T	1980-82,
				1990-97
Leon River near Belton	08102500	3,542	T	1957-72
South Fork Rocky Creek near Briggs	08103900	33.30	S	1963-65
Lampasas River at Youngsport	08104000	1,240	SC, T	1961-64
Little River near Little River	08104500	5,228	SC, T	1965-73,
				1980-82
Little River near Cameron	08106500	7,065	SC, T	1959-97
San Gabriel River near Weir	08105300	563	T	1977-82
San Gabriel River at Laneport	08105700	738	T	1977-82
Brazos River at State Highway 21 near Bryan	08108700	39,049	SC, T	1961-65
Brazos River near Bryan	08109000	39,515	SC, T	1966

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
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 Cl	1950-52, 1959-70, 1975-82, 1951-52
Deep Creek near Dunn	08120500	198	SC, T	1953-54
Colorado River near Cuthbert	08120700	3,912	SC T	1965-99 1965-80, 1983-99
Morgan Creek near Westbrook	08121500	273	T	1954-55
Graze Creek near Westbrook	08122000	21.70	T	1954-55
Morgan Creek near Colorado City	08122500	313	T	1947-49
Lake Colorado City near Colorado City	08123000	340	T	1954-55
Beals Creek above Big Spring	08123650	9,319	SC, T	1973-78
Beals Creek near Big Spring	08123700	9,341	SC, T	1956-57
Beals Creek near Coahoma	08123720	9,383	SC, T	1983-88
Colorado River near Silver	08123900	14,997	SC, T	1957-68
Colorado River at Robert Lee	08124000	15,307	SC, T, pH, Cl S	1948-51, 1949-51
Oak Creek near Blackwell	08126000	209	SC, T	1950
Colorado River at Ballinger	08126500	16,413	SC, T S	1961-79, 1978-79
Elm Creek at Ballinger	08127000	450	SC, T	1968-91
Concho River at Paint Rock	08136500	6,574	SC, T S	1946-50, 1967-90, 1978-81
Pecan Bayou at Brownwood	08143500	1,660	SC, T	1948-49
Pecan Bayou near Mullin	08143600	2,073	SC, T	1968-91
San Saba River near San Saba	08145500	N/A	SC, T	1962-65
San Saba River at San Saba	08146000	3,046	SC T	1962-69, 1963-70
Colorado River near San Saba	08147000	37,217	SC, T S	1947-92, 1951-62
Llano River at Llano	08151500	4,197	SC, T	1979-81
Lake Austin at Austin	08154900	38,240	SC, T	1965-80
Barton Creek below Barton Springs at Austin	08155505	125	SC, T,	1965, 1975-83, 1989-91, 1994-97

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Waller Creek at 23rd Street at Austin	08157500	4.13	T	1955-60
Colorado River at Austin	08158000	39,009	SC, T	1948-91
Colorado River above Columbus	08160700	41,403	SC, T	1983-86
Colorado River at Columbus	08161000	41,640	SC	1967-73,
			T	1957-59,
				1961-68
			S	1957-73
Colorado River at Wharton	08162000	42,003	SC	1945-92,
			T	1946-48,
Lavaca River near Edna	08164000	817	SC, T	1978-81
Navidad River near Ganado	08164500	826	SC, T	1960-80
Guadalupe River near Spring Branch	08167500	1,315	SC	1942-45
Guadalupe River at Sattler	08167800	1,436	T	1984-87
Blanco River at Wimberley	08171000	355	T	1977-78
Plum Creek near Luling	08173000	309	SC, T	1968-86
Guadalupe River at Victoria	08176500	5,198	SC	1946-81,
			T	1951-81
Coleto Creek Reservoir (Condenser No. 1) near Fannin	08177360	414	T	1980-94
Coleto Creek Reservoir (outflow) near Victoria	08177410	494	T	1980-94
San Antonio River at San Antonio	08178000	41.8	SC, T	1991-92,
				1996-97
Medina River at La Coste	08180640	805	SC, pH, T, DO	1987-95
Medio Creek at Pearsall Rd. at San Antonio	08180750	47.9	SC, pH, T, DO	1987-95
San Antonio River near Falls City	08183500	2,113	SC, pH, T, DO	1987-96
Cibolo Creek near Falls City	08186000	827	SC, T	1969-91
Escondido Creek SWS #1 near Kenedy	08187000	3.29	S	1955-65
Guadalupe River at Tivoli	08188800	10,128	SC, T	1966-82
Mission River at Refugio	08189500	690	SC, T	1961-81
Nueces River at Cotulla	08194000	5,171	SC	1942
Nueces River near Tilden	08194500	8,093	SC, T, S	1950
Frio River at Calliham	08207000	5,491	SC, T	1968-81
Nueces River near Three Rivers	08210000	15,427	SC	1945-47,
			SC, T, pH, Cl, S	1951-52,
			SC, T	1975-81
Nueces River at Bluntzer	08211000	16,772	SC, T	1948-91
Los Olmos Creek near Falfurrias	08212400	480	SC, T	1975-81
Rio Grande at Fort Quitman	08370500	31,944	SC, T	1975-78.
Rio Grande at Foster Ranch near Langtry	08377200	80,742	SC, T	1975-81
Pecos River below Red Bluff Dam near Orla	08410100	20,720	SC	1937-69,
			T	1953-69
Salt Draw near Orla	08411500	464	SC, T	1943-48
Pecos River near Mentone	08414000	21,650	SC	1939
Pecos River at Pecos	08420500	22,100	SC	1939-41
Toyah Creek near Pecos	08431000	1,024	SC	1940,
				1944
Salt Draw near Pecos	08431500	1,882	SC	1940,
				1944
Toyah Creek below Toyah Lake near Pecos	08434000	3,709	SC	1940-50,
			Cl	1940
Pecos River below Grand Falls	08441500	27,820	SC	1939-42,
				1947-56
Pecos River near Girvin	08446500	29,560	SC	1940-41,
				1947,
				1954-82
			T	1954-59,
				1964-82
Pecos River near Sheffield	08447000	31,600	SC	1940-41,
				1947

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
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 T	1975-86, 1974-76
Rio Grande at Roma	08462500	166,464	SC	1942-43
Rio Grande at Mission Pumping Plant	08468000	171,800	SC	1945-50
Rio Grande at Cameron Co. WID #2 near San Benito	08473800	N/A	SC	1942-43
Rio Grande at Los Fresnos Pumping Plant near Brownsville	08474130	N/A	SC	1945-46
Rio Grande near Brownsville	08475000	176,333	SC SC, T S	1943-44, 1967-83 1966-83

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WATER RESOURCES DATA—TEXAS, 2000

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 84 gaging stations; stage only at 9 gaging stations; stage and contents at 32 lakes and reservoirs; and water quality at 25 gaging stations. Also included are data for 43 partial-record stations comprised of 18 flood-hydrograph, 8 low-flow, 14 crest-stage, 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-00-3." 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 2000 are:

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

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

Texas Water Development Board, G.E. Kretzschmar, Executive Administrator; the cities of Abilene, Arlington, Austin, Corpus Christi, Fort Worth, Gainesville, Garland, Georgetown, Graham, Houston, Lubbock, Nacogdoches, San Angelo, and Wichita Falls; Bexar, Medina, and Atascosa Counties Water Improvement District No. 1; Barton Springs/Edwards Aquifer Conservation District; Brazos River Authority; Canadian Municipal Water Authority; Coastal Water Authority; Colorado River Municipal Water District; Dallas Public Works Department; Dallas Water Utilities; Edwards Underground Aquifer Authority; Fort Bend Subsidence District; Franklin County Water District; Galveston County; Greenbelt Municipal and Industrial Water Authority; Guadalupe-Blanco River Authority; Harris-Galveston Coastal Subsidence District; Harris County Office of Emergency Management; Harris County Flood Control District: Houston-Galveston Area Council; Lavaca-Navidad River Authority; Lower Colorado River Authority; Lower Neches Valley Authority; North Central Texas Municipal Water Authority; Northeast Texas Municipal Water District; North Texas Municipal Water District; Orange County; Pecos River Commission; Red Bluff Water Power Control District; Red River Authority of Texas; Sabine River Authority of Texas; Sabine River Compact Administration; San Antonio City Public Service Board; San Antonio River Authority; San Antonio Water System; San Jacinto River Authority; Somervell County Water District; Tarrant Regional Water District; Texas Soil & Water Conservation Board; Texas State Department of Highways & Public Transportations; Texas Natural Resources Conservation Commission; Titus County Fresh Water Supply District No. 1; Trinity River Authority; Upper Colorado River Authority; Upper Guadalupe River Authority; Upper Neches River Municipal Water Authority; West Central Texas Municipal Water District; and Wichita County Water Improvement District No. 2.

HYDROLOGIC CONDITIONS

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

Streamflow across the State averaged normal during water year 2000.

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

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

Streamflow

In the area covered in volume 2, streamflow averaged normal during water year 2000. Streamflow for water year 2000 and for the period of record at two selected stations (fig. 1) for which data are included in volume 2 is presented in table 1.

At the four long-term hydrologic index stations in the State, monthly mean streamflow during water year 2000 averaged below normal. Monthly mean discharges for water year 2000 and the median of the long-term monthly means for water years 1961–90 for the four long-term hydrologic index stations in the State are shown in figure 2. Streamflow at the hydrologic index station Neches River near Rockland was below normal during November through April and normal for the remaining 6 months. The station North Bosque River near Clifton had above normal streamflow during June, normal streamflow during November, and December and below normal streamflow for the remaining 9 months. The station North Concho River near Carlsbad had above normal streamflow for March, below normal streamflow for May and normal streamflow for the remaining 10 months. Streamflow for the station Guadalupe River near Spring Branch was below normal for each month of water year 2000.

Conservation storage in 21 selected reservoirs in this area of the State, with a total combined conservation capacity of 3,805,000 acre-feet, decreased from 81 percent of capacity at the end of September 1999 to 79 percent at the end of

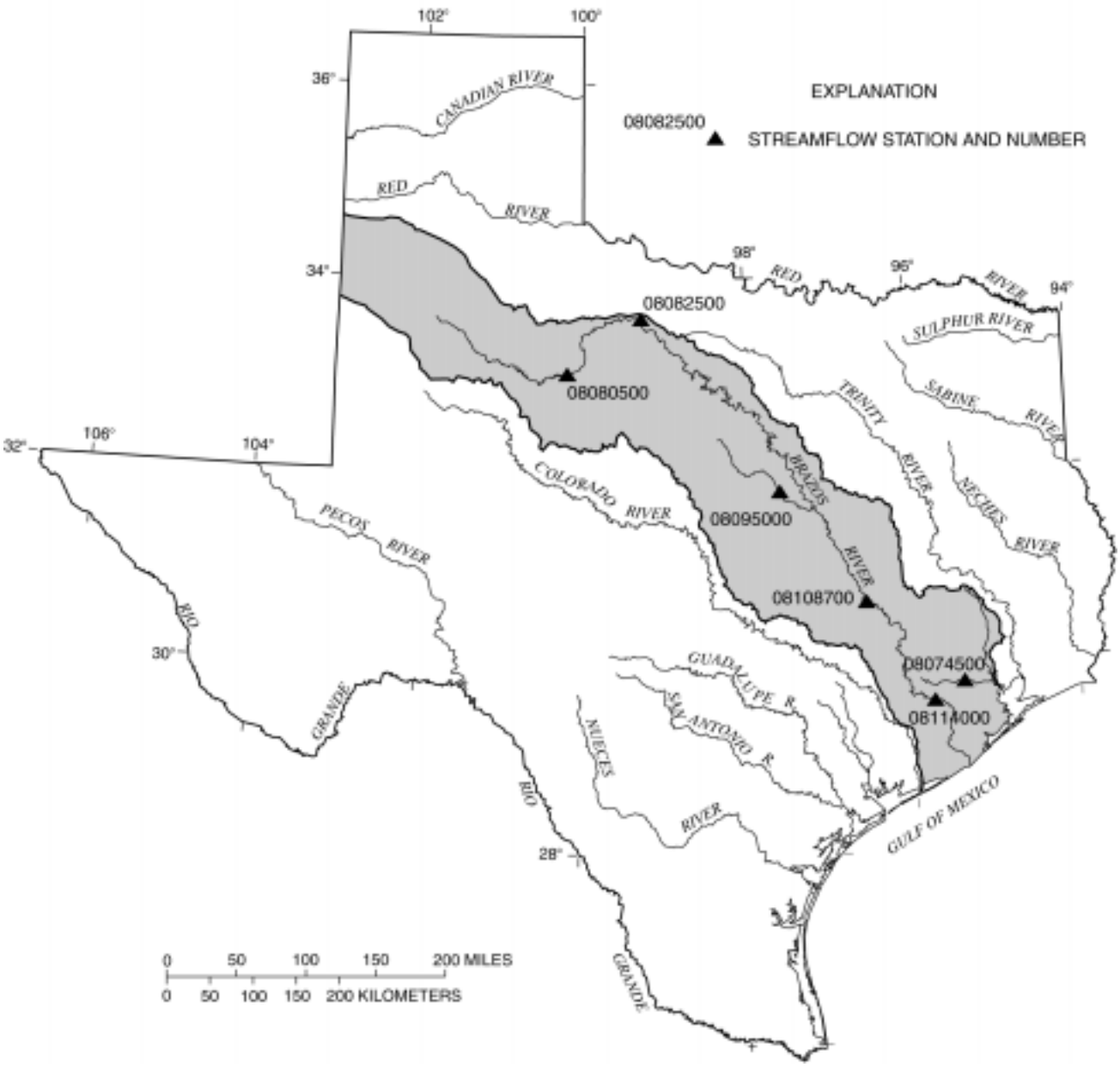
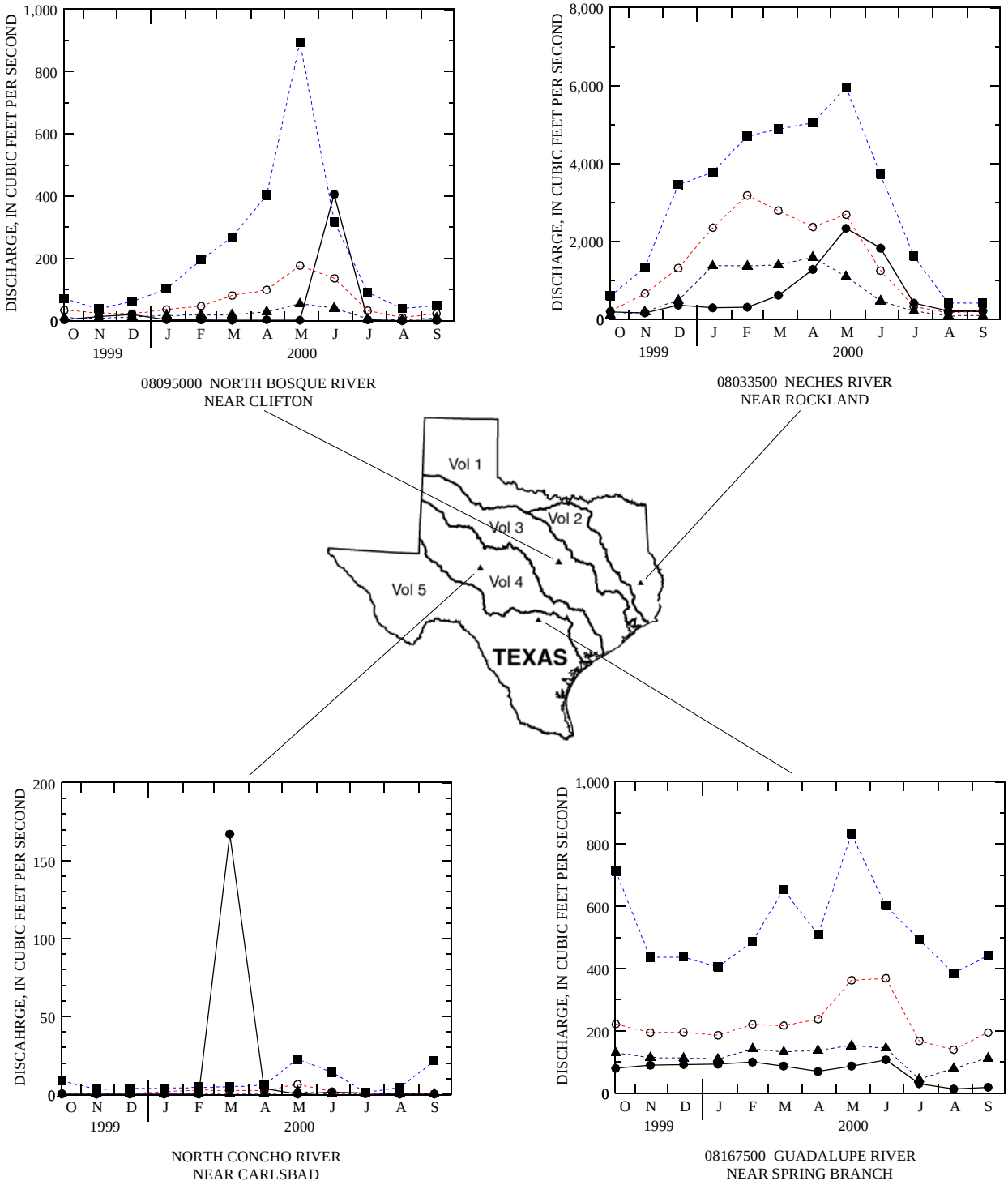


Figure 1. Area of Texas covered by volume 3 (shaded) and location of selected streamflow stations in volume 3.



EXPLANATION

MONTHLY MEAN DISCHARGE FOR 2000 WATER YEAR

MEDIAN OF MONTHLY MEAN DISCHARGE FOR 1961–90 WATER YEARS

25 PERCENT QUARTILE

75 PERCENT QUARTILE

Figure 2. Monthly mean discharges at four long-term hydrologic index stations during 2000 water year and median of the monthly mean discharges for 1961–90 water years.

September 2000. Records from these reservoirs indicate that storage decreased in all 21 reservoirs.

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 2000 water year (cubic feet per second)			Discharge during period of record (cubic feet per second)		
		Maximum instantaneous	Minimum daily mean	Mean	Maximum instantaneous	Minimum daily mean	Mean
San Jacinto River Basin							
08074500	Whiteoak Bayou at Houston, TX	7,620	29	95.8	25,100	0.20	103 (1936-2000)
Brazos River Basin							
08080500	Double Mountain Fork Brazos River nr Aspermont, TX	23,000	0	86.4	23,000	0	59.8 (1994-2000)
08082500	Brazos River at Seymour, TX	13,100	0	154	42,700	0	280 (1964-2000)
08095000	North Bosque River near Clifton, TX 1/	24,800	0	39.1	200,000	.01	237 (1968-2000)
08108700	Brazos River at State Hwy. 21 near Bryan, TX	16,700	128	827	78,600	125	4,652 (1993-2000)
08114000	Brazos River at Richmond, TX	14,600	265	1,201	119,000	55	7,513 (1941-2000)

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

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 40 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of the constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

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

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

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

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

http://nadp.sws.uiuc.edu

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

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

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

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

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

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

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

EXPLANATION OF THE RECORDS

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

Station Identification Numbers

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

Downstream Order Numbering

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

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

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

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

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

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

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

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

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

Data Presentation

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

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

Station Manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station

name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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

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

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

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

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

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

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

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error. Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscripts published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check, because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

Data table of daily mean values

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

Statistics of monthly mean data

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

Summary statistics

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

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

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

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

Other Records Available

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

Records of Surface-Water Quality

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

Classification of Records

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

A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin. A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values obtained by data logger. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

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

On-Site Measurements and Sample Collection

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

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

Procedures for on site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Texas Office of the Central Region Office.

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

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

Detailed information on sampling methods may be found in the following publications: OFR-90-127 "Guidelines for Collection and Analysis of Water-Quality Samples from Streams in Texas", OFR-94-455 "Field Guide for Collecting and Processing Stream-Water Samples for the National Water-Quality Assessment Program", and OFR-94-539 "U.S. Geological Survey protocol for the collection and processing of surface-water samples for the subsequent determination of inorganic constituents in filtered water". Specific questions pertaining to water-quality sample collection may be directed to the District

Water-Quality Specialist in Austin, Texas, or the Regional Water-Quality Specialist in Denver, Colorado.

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

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

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

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

Water Temperature

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

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

Sediment

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

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

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

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

Laboratory Measurements

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

Historical and current (2000) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Data Presentation

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

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

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

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

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

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

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

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

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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

Remarks Codes

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

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

Dissolved Trace-Element Concentrations

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

Change in National Trends Network Procedures

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

Water-Quality Control Data

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

Blank Samples

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

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

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

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

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

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

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

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

Reference Samples

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

Replicate Samples

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

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

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

Spike Samples

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

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with necessary telemetry and historic daily-mean and peak-flow discharge

data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://tx.usgs.gov

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

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bottom material: See "Bed material".

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

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

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

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

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

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

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

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

Cubic foot per second per day [$(ft^3/s)/d$] is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

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

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

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

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

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

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

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

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

Extractable organic halides (EOX) are organic compounds which contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried stream bottom sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of th stream bottom sediments.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

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

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

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

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

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

Organism is any living entity.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Milligrams of oxygen per area or volume per unit time [mg 0/(m^2/time)] for periphyton and macrophytes and [mg 0/(m^3/time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

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

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

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

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

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

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

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

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

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

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

Solute is any substance that is dissolved in water.

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

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

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

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

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

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

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

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata

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

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

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

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

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

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

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

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

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

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

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

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

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

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

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

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

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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

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

Section E. Subsurface Geophysical Methods

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

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

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section B. Ground-Water Techniques

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

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

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

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

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

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

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

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

Section C. Sedimentation and Erosion Techniques

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

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

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

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

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

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

Section B. Surface Water

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

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

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

Section D. Interrelated Phases of the Hydrologic Cycle

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

Book 5. Laboratory Analysis

Section A. Water Analysis

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

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

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

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

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

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

Section A. Sediment Analysis

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

Book 6. Modeling Techniques

Section A. Ground Water

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

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

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

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

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

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

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

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

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Section A. Instruments for Measurement of Water Level

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

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

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

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

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

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

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

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

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

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

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

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

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

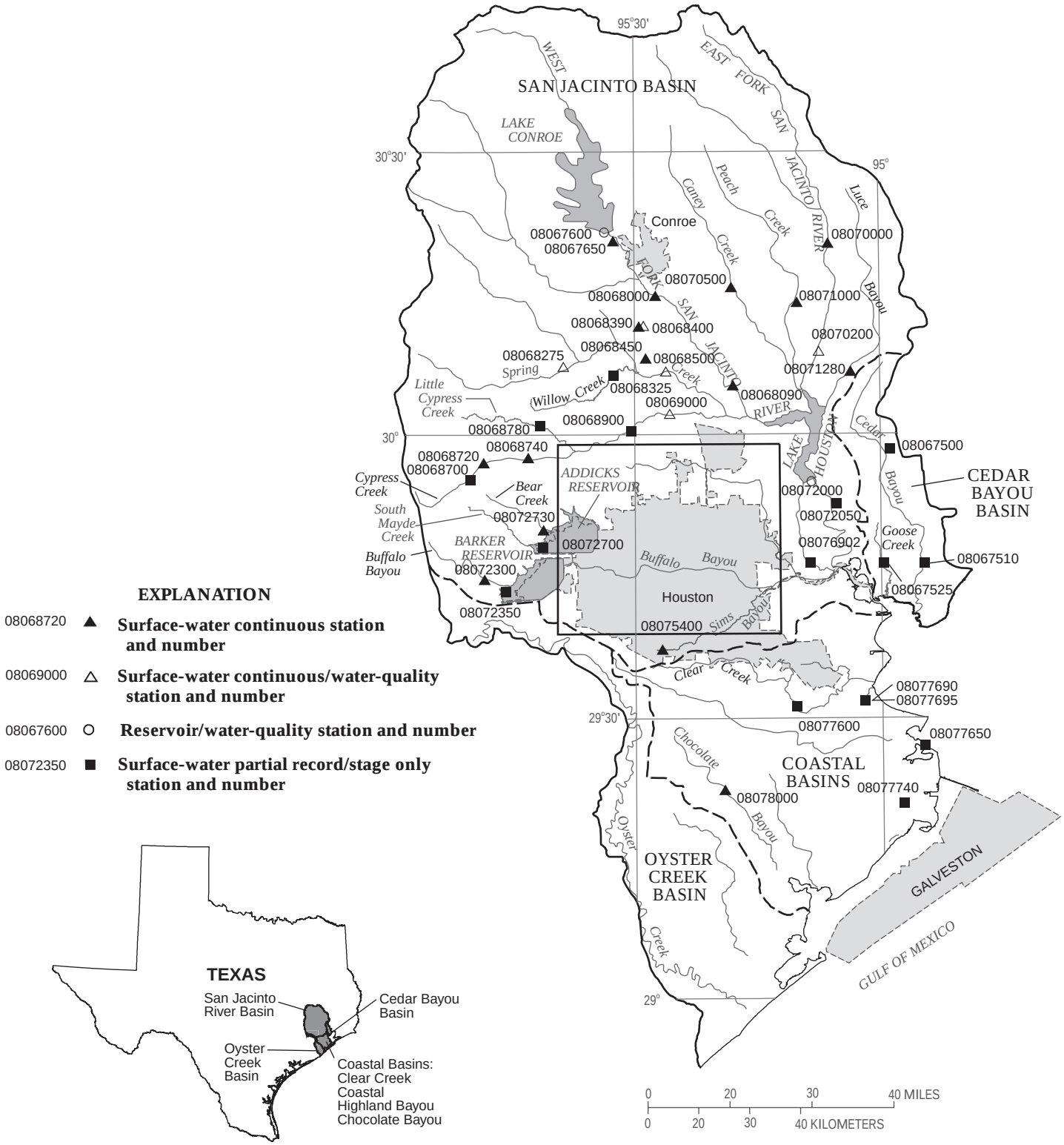
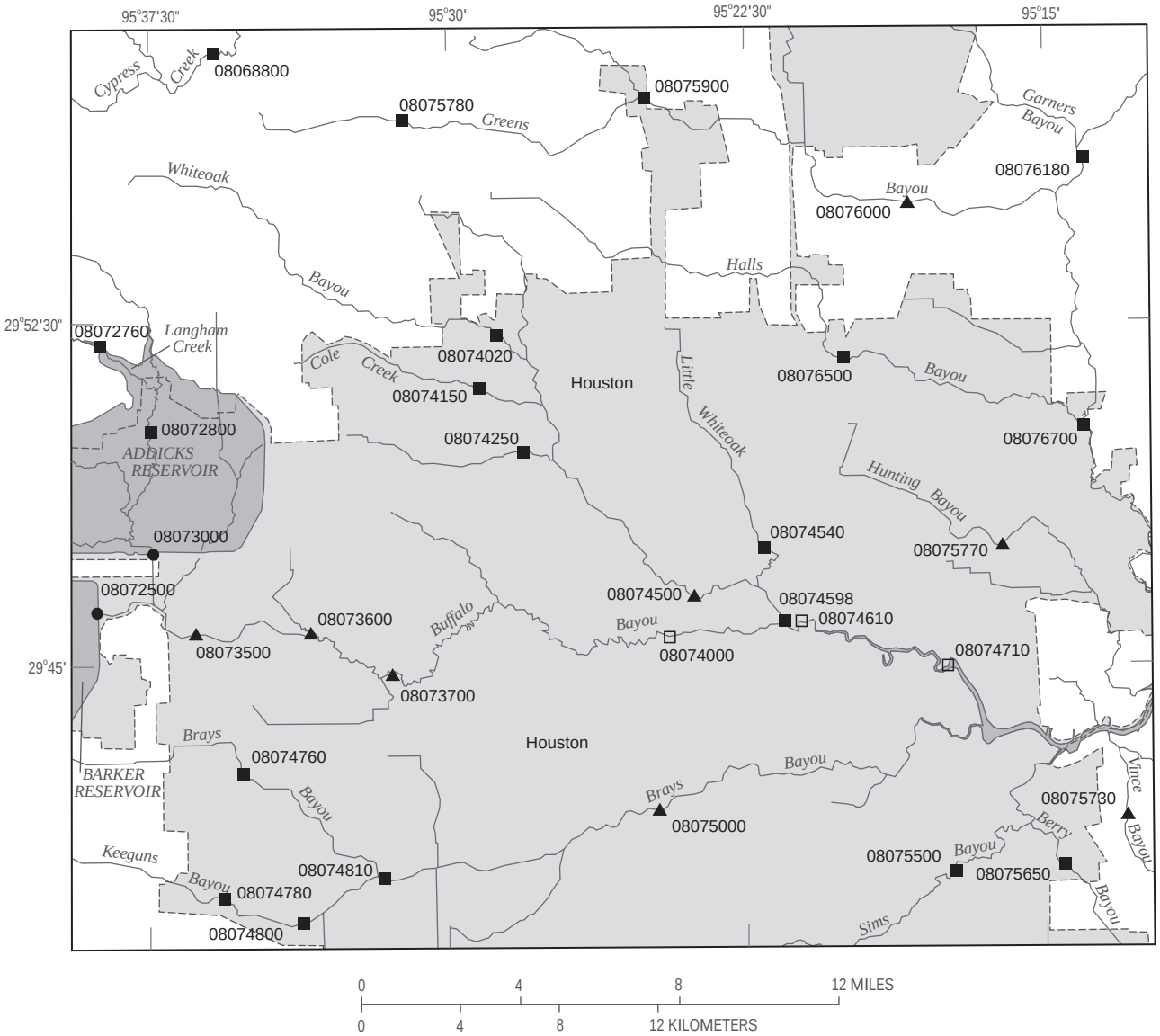


Figure 3.--Map showing location of gaging stations in the San Jacinto and Coastal River Basins



EXPLANATION

08073500	▲	**Surface-water continuous station and number**
08073600	△	**Surface-water continuous/water-quality station and number**
08073000	●	**Reservoir station and number**
08074780	■	**Surface-water partial record/stage only station and number**
08074610	□	**Surface-water partial record/stage only/water-quality 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 30
08067510 Cedar Bayou near Baytown, TX 486
08067525 Goose Creek at Baytown, TX 486
08067600 Lake Conroe near Conroe, TX 32
08067650 West Fork San Jacinto River below Lake Conroe near Conroe, TX 40
08068000 West Fork San Jacinto River near Conroe, TX 42
08068090 West Fork San Jacinto River above Lake Houston near Porter, TX 44
08068275 Spring Creek near Tomball, TX 46
08068325 Willow Creek near Tomball, TX 486
08068390 Bear Branch at Research Forest Blvd., The Woodlands, TX 54
08068400 Panther Branch at Gosling Road, The Woodlands, TX 58
08068450 Panther Branch near Spring, TX 76
08068500 Spring Creek near Spring, TX 78
08068700 Cypress Creek at Sharp Road near Hockley, Tx 486
08068720 Cypress Creek at Katy-Hockley Road near Hockley, TX 88
08068740 Cypress Creek at House and Hahl Road near Cypress, TX 90
08068780 Little Cypress Creek near Cypress, TX 92
08068800 Cypress Creek at Grant Road near Cypress, TX 94
08068900 Cypress Creek at Steubner-Airline Road near Westfield, TX 96
08069000 Cypress Creek near Westfield, TX 98
08070000 East Fork San Jacinto River near Cleveland, TX 102
08070200 East Fork San Jacinto River near New Caney, TX 104
08070500 Caney Creek near Splendora, TX 108
08071000 Peach Creek at Splendora, TX 110
08071280 Luce Bayou above Lake Houston near Huffman, TX 112
08072000 Lake Houston near Sheldon, TX 114
08072050 San Jacinto River near Sheldon, TX 126
08072300 Buffalo Bayou near Katy, TX 128
08072350 Buffalo Bayou near Fulshear, TX 486
08072500 Barker Reservoir near Addicks, TX 130
08072700 South Mayde Creek near Addicks, TX 486
08072730 Bear Creek near Barker, TX 132
08072760 Langham Creek at West Little York Road near Addicks, TX 134
08072800 Langham Creek near Addicks, TX 486
08073000 Addicks Reservoir near Addicks, TX 136
08073500 Buffalo Bayou near Addicks, TX 138
08073600 Buffalo Bayou at West Belt Drive, Houston, TX 140
08073700 Buffalo Bayou at Piney Point, TX 142
08074000 Buffalo Bayou at Houston, TX 144
08074020 Whiteoak Bayou at Alabonson Road at Houston, TX 486
08074150 Cole Creek at Deihl Road, Houston, TX 152
08074250 Brickhouse Gulley at Costa Rica Street, Houston, TX 154
08074500 Whiteoak Bayou at Houston, TX 156
08074540 Little Whiteoak Bayou at Trimble Street at Houston, TX 486
08074598 Whiteoak Bayou at Main Street, Houston, TX 158
08074610 Buffalo Bayou at McKee Street, Houston, TX 160
08074710 Buffalo Bayou at Turning Basin, Houston, TX 168
08074760 Brays Bayou at Alief, TX 486
08074780 Keegans Bayou at Keegan Road near Houston, TX 486
08074800 Keegans Bayou at Roark Road near Houston, TX 176
08074810 Brays Bayou at Gessner Drive, Houston, TX 487

08075000 Brays Bayou at Houston, TX 178
08075400 Sims Bayou at Hiram Clarke Street, Houston, TX 180
08075500 Sims Bayou at Houston, TX 182
08075650 Berry Bayou at Forest Oaks Street, Houston, TX 184
08075730 Vince Bayou at Pasadena, TX 186
08075770 Hunting Bayou at Interstate Highway 610, Houston, TX 188
08075780 Greens Bayou at Cutten Road near Houston, TX 487
08075900 Greens Bayou at U.S. Highway 75 near Houston, TX 190
08076000 Greens Bayou near Houston, TX 192
08076180 Garners Bayou near Humble, TX 194
08076500 Halls Bayou at Houston, TX 196
08076700 Greens Bayou at Ley Road, Houston, TX 198
08076902 Carpenters Bayou at Interstate Highway 10 near Channelview, TX 487
08077600 Clear Creek near Friendswood, TX 200
08077650 Moses Lake-Galveston Bay near Texas City, TX 202
08077690 Highland Bayou Diversion Channel near Hitchcock, TX 204
08077695 Highland Bayou near Hitchcock, TX 206
08077740 LaMarque Levee Pump Station near LaMarque, TX 208
08078000 Chocolate Bayou near Alvin, TX 212

08067500 CEDAR BAYOU NEAR CROSBY, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°58′21", long 94°59′08", 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 mi^2.

PERIOD OF RECORD.--Mar to Aug 1946, Mar 1963 to Feb 1964, May to Aug 1971 (discharge measurements only), Oct 1971 to Sep 1991 (daily mean discharge), Oct 1991 to current year (peak discharges greater than base discharge).
Water-quality records.--Chemical data: May 1971 to Sep 1979. Biochemical data: May 1971 to Sep 1979. Pesticide data: May 1971 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--20 years (water years 1972-91), 78.7 ft^3/s (57,020 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,800 ft^3/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 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1630	1,460	17.53	May 20	1245	3,280	24.30
May 5	0530	2,450	21.53				

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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 mi^2.

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 Sep 1, 1972, and deliberate impoundment began Jan 9, 1973. 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 Jul 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, 388,200 acre-ft, Oct 1, elevation, 199.54 ft; minimum contents, 347,700 acre-ft, Sep 30, elevation, 197.30 ft.

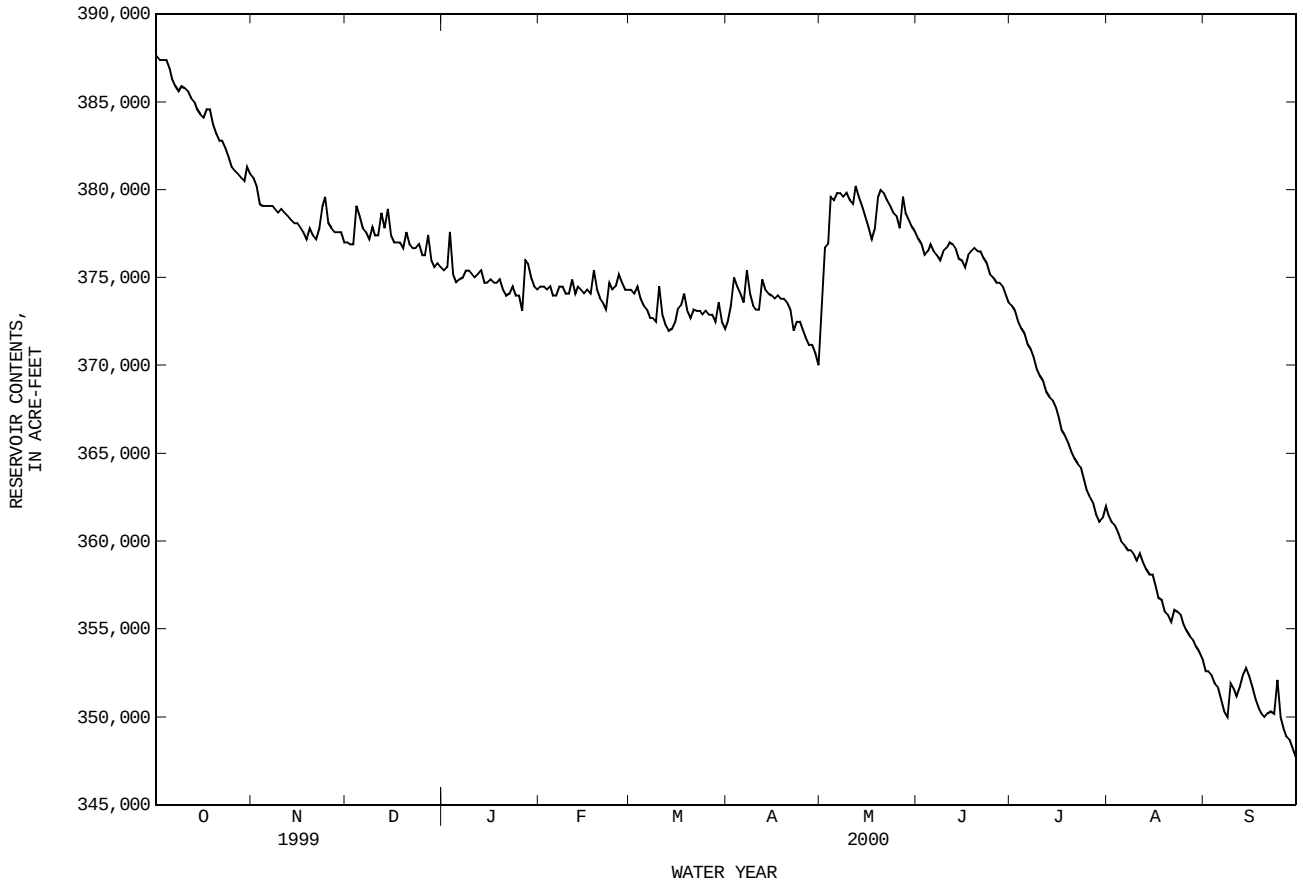
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387600	380700	377000	375400	374500	374300	372500	373200	377200	373400	361500	352600
2	387400	380200	376900	375600	374500	374100	373400	376700	376900	373100	361100	352600
3	387400	379200	376900	377600	374300	374500	375000	376900	376300	372500	360900	352400
4	387400	379100	379100	375200	374500	373800	374500	379600	376500	372100	360500	351900
5	386900	379100	378500	374700	374000	373400	374100	379400	376900	371800	360000	351700
6	386300	379100	377800	374900	374000	373200	373600	379800	376500	371200	359800	351000
7	385900	379100	377600	375000	374500	372700	375400	379800	376300	370900	359500	350300
8	385600	378900	377200	375400	374500	372700	374100	379600	376000	370500	359500	350000
9	385900	378700	377900	375400	374100	372500	373400	379800	376500	369800	359300	351900
10	385800	378900	377400	375200	374100	374500	373200	379400	376700	369400	358900	351600
11	385600	378700	377400	375000	374900	372900	373200	379200	377000	369100	359300	351200
12	385200	378500	378700	375200	374100	372300	374900	380200	376900	368500	358800	351700
13	385000	378300	377800	375400	374500	372000	374300	379600	376700	368200	358400	352400
14	384600	378100	378900	374700	374300	372100	374100	379100	376100	368000	358100	352800
15	384300	378100	377400	374700	374100	372500	374000	378500	376000	367600	358100	352300
16	384100	377900	377000	374900	374300	373200	373800	377900	375600	367100	357400	351700
17	384600	377600	377000	374700	374100	373400	374000	377200	376300	366300	356800	351000
18	384600	377200	377000	374700	375400	374100	373800	377800	376500	366000	356700	350500
19	383700	377800	376700	374900	374300	373100	373800	379600	376700	365600	356000	350200
20	383200	377400	377600	374300	373800	372700	373600	380000	376500	365100	355800	350000
21	382800	377200	376900	374000	373600	373200	373200	379800	376500	364700	355400	350200
22	382800	377800	376700	374100	373200	373100	372000	379400	376100	364400	356100	350300
23	382400	379100	376700	374500	374700	373100	372500	379100	375800	364200	356000	350200
24	381900	379600	376900	374000	374300	372900	372500	378700	375200	363600	355800	352100
25	381300	378100	376300	374000	374500	373100	372000	378500	375000	362900	355300	350000
26	381100	377800	376300	373100	375200	372900	371600	377800	374700	362500	354900	349300
27	380900	377600	377400	376000	374700	372900	371200	379600	374700	362200	354600	348900
28	380700	377600	376000	375800	374300	372500	371200	378700	374500	361500	354400	348700
29	380500	377600	375600	375000	374300	373600	370700	378300	374000	361100	354000	348200
30	381300	377000	375800	374500	---	372500	370000	377900	373600	361300	353700	347700
31	380900	---	375600	374300	---	372100	---	377600	---	362000	353300	---
MAX	387600	380700	379100	377600	375400	374500	375400	380200	377200	373400	361500	352800
MIN	380500	377000	375600	373100	373200	372000	370000	373200	373600	361100	353300	347700
(+)	199.15	198.94	198.86	198.79	198.79	198.67	198.55	198.97	198.75	198.11	197.62	197.30
(@)	-7300	-3900	-1400	-1300	0	-2200	-2100	+7600	-4000	-11600	-8700	-5600

CAL YR 1999 MAX 423100 MIN 375600 (@) -35600
WTR YR 2000 MAX 387600 MIN 347700 (@) -40500

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

08067600 LAKE CONROE NEAR CONROE, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Sep 1973 to current year.
BIOCHEMICAL DATA: Sep 1973 to current year.

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

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 WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
FEB												
16...	1105	374000	1.00	210	8.2	16.0	8.8	88	63	11	22.2	1.82
16...	1107	--	10.0	210	7.4	14.0	8.7	84	--	--	--	--
16...	1109	--	20.0	210	7.4	14.0	8.7	84	--	--	--	--
16...	1111	--	30.0	210	7.4	14.0	8.6	83	--	--	--	--
16...	1113	--	40.0	215	7.3	13.5	8.4	80	--	--	--	--
16...	1115	--	52.0	215	7.5	14.0	8.3	80	63	10	22.3	1.84
JUN												
28...	0958	375000	1.00	225	8.7	30.0	7.5	99	72	14	25.4	2.05
28...	1000	--	10.0	225	8.6	29.5	7.4	97	--	--	--	--
28...	1002	--	20.0	225	8.4	29.5	7.1	93	--	--	--	--
28...	1004	--	30.0	230	7.5	28.5	6.1	78	--	--	--	--
28...	1006	--	40.0	230	7.4	27.5	5.8	73	--	--	--	--
28...	1008	--	50.0	245	7.4	26.0	6.1	75	72	--	25.6	2.06
AUG												
28...	1100	355000	1.00	230	8.9	30.5	7.5	100	80	5	28.3	2.23
28...	1102	--	10.0	230	8.7	30.0	6.0	79	--	--	--	--
28...	1104	--	20.0	235	8.0	29.5	4.0	52	--	--	--	--
28...	1106	--	30.0	235	7.7	29.0	2.9	38	--	--	--	--
28...	1108	--	40.0	250	7.4	28.5	1.8	23	--	--	--	--
28...	1110	--	47.0	260	7.3	28.0	1.7	22	85	--	30.3	2.33

302127095335501 - Lk Conroe Site AC

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
FEB											
16...	11.6	.6	28	2.7	--	52	7.0	20.0	<.1	9.5	106
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	11.5	.6	27	2.8	--	53	7.1	20.0	<.1	10.8	109
JUN											
28...	12.5	.6	26	3.0	58	--	6.8	23.0	<.1	9.3	117
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	12.1	.6	26	3.0	77	--	5.2	17.7	<.1	12.1	128
AUG											
28...	13.2	.6	25	3.4	75	--	5.9	19.3	.2	10.5	128
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	12.6	.6	23	3.5	95	--	1.3	18.8	.1	14.6	144

08067600 LAKE CONROE NEAR CONROE, TX--Continued

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

302127095335501 - Lk Conroe Site AC

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB											
16...	--	<.010	.069	<.020	--	.35	<.050	<.010	--	<10	<2
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	<.010	.091	.042	.34	.38	<.050	<.010	--	<10	6
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	<.010	.121	.081	.34	.42	<.050	<.010	--	<10	75
JUN											
28...	--	<.010	<.050	<.020	--	.42	<.050	<.010	--	<10	E2
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	<.010	<.050	<.020	--	.39	<.050	<.010	--	<10	5
28...	.030	.020	.050	.020	.38	.41	.050	.010	.031	<10	52
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	<.010	<.050	.494	.43	.92	.069	.084	.258	80	2940
AUG											
28...	--	<.010	<.050	<.020	--	.40	<.050	<.010	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	<.010	<.050	<.020	--	.39	<.050	<.010	--	<10	5
28...	--	<.010	<.050	.087	.40	.48	<.050	<.010	--	20	76
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	<.010	<.050	2.36	.52	2.9	.377	.313	.960	--	--

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 (PER-CENT SATUR-ATION) (00301)
FEB							
16...	1130	1.00	210	7.9	15.5	8.9	88
16...	1132	10.0	210	7.4	14.0	8.7	84
16...	1134	20.0	210	7.3	13.5	8.7	83
16...	1136	30.0	210	7.3	13.5	8.7	83
16...	1138	40.0	210	7.3	13.5	8.7	83
16...	1140	50.0	210	7.4	14.0	8.7	84
16...	1142	61.0	210	7.4	14.0	8.7	84
JUN							
28...	1035	1.00	225	8.7	30.0	7.5	99
28...	1037	10.0	225	8.7	30.0	7.4	98
28...	1039	20.0	225	8.0	29.0	6.9	89
28...	1041	30.0	230	7.4	28.5	5.8	75
28...	1043	40.0	230	7.3	27.5	5.6	71
28...	1045	58.6	275	7.3	24.5	6.0	72
AUG							
28...	1130	1.00	225	9.1	30.5	8.3	111
28...	1132	10.0	230	8.7	30.0	6.3	83
28...	1134	20.0	230	7.9	29.5	3.8	50
28...	1136	30.0	235	7.5	29.5	1.6	21
28...	1138	40.0	250	7.4	28.5	1.6	21
28...	1140	52.0	275	7.1	26.0	1.5	18

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 (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
16...	1045	1.00	210	7.7	15.0	9.1	89
16...	1047	10.0	210	7.3	14.0	8.9	85
16...	1049	20.0	210	7.3	14.0	8.6	83
16...	1051	25.5	210	7.6	15.5	9.0	89
JUN							
28...	0930	1.00	225	8.7	30.0	7.2	95
28...	0932	10.0	230	8.2	29.5	7.1	93
28...	0934	26.6	230	7.4	28.5	5.9	76
AUG							
28...	1035	1.00	225	9.0	31.0	7.7	103
28...	1037	10.0	225	8.8	30.5	6.1	81
28...	1039	23.0	235	7.6	29.5	1.9	25

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 (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
16...	1200	1.00	210	8.1	15.5	9.0	89
16...	1202	10.0	210	7.5	14.5	8.9	86
16...	1204	20.0	210	7.4	13.5	8.8	84
16...	1206	30.0	210	7.4	13.5	8.7	83
16...	1208	40.0	210	7.5	13.5	8.7	83
16...	1210	50.0	210	7.4	13.5	8.6	82
JUN							
28...	1100	1.00	225	8.7	30.0	7.4	98
28...	1102	10.0	225	8.7	30.0	7.4	98
28...	1104	20.0	225	8.6	29.5	7.2	94
28...	1106	30.0	230	7.4	28.5	5.7	73
28...	1108	40.0	230	7.4	27.0	5.7	71
28...	1110	53.1	260	7.5	26.0	6.1	75
AUG							
28...	1155	1.00	230	9.1	31.0	8.1	109
28...	1157	10.0	230	8.9	30.5	6.0	80
28...	1159	20.0	230	8.3	30.0	4.6	61
28...	1201	30.0	235	8.1	29.5	4.0	52
28...	1203	45.0	275	7.2	27.5	1.5	19

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 (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
16...	1215	1.00	210	8.0	15.5	8.8	87
16...	1217	10.0	210	7.5	14.0	8.7	84
16...	1219	20.0	210	7.4	13.5	8.6	82
16...	1221	30.0	210	7.6	13.5	8.5	81
16...	1223	40.0	210	8.3	13.5	8.4	80
JUN							
28...	1122	1.00	225	8.8	30.5	7.6	101
28...	1124	10.0	225	8.8	30.5	7.5	100
28...	1126	20.0	225	8.5	30.0	7.1	94
28...	1128	30.0	230	7.3	28.5	5.6	72
28...	1130	41.6	230	7.4	28.5	5.8	75
AUG							
28...	1215	1.00	230	9.0	30.5	7.9	105
28...	1217	10.0	230	8.6	30.0	5.3	70
28...	1219	20.0	230	8.4	30.0	4.6	61
28...	1221	30.0	235	7.5	29.5	1.5	20
28...	1223	42.0	245	7.5	29.0	1.5	19

302448095374101 - Lk Conroe Site DC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
16...	1232	1.00	210	7.6	15.5	8.5	84
16...	1234	10.0	210	7.5	15.0	8.2	80
16...	1236	20.0	210	8.4	15.0	8.2	80
16...	1238	25.0	210	8.4	15.0	8.1	80
JUN							
28...	1152	1.00	230	8.5	30.5	7.0	93
28...	1154	10.0	230	8.0	30.0	6.9	91
28...	1156	24.0	230	7.6	29.5	6.1	80
AUG							
28...	1230	1.00	225	9.2	32.0	8.5	116
28...	1232	10.0	230	8.7	30.5	5.2	69
28...	1234	23.8	235	7.7	32.0	8.5	116

08067600 LAKE CONROE NEAR CONROE, TX--Continued

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

302607095360901 - Lk Conroe Site EC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
FEB											
16...	1305	1.00	210	8.3	18.0	8.1	85	62	6	21.9	1.80
16...	1307	10.0	210	7.4	15.5	7.9	78	--	--	--	--
16...	1309	20.0	210	7.4	15.0	7.8	77	--	--	--	--
16...	1311	30.0	210	7.4	15.0	7.8	77	--	--	--	--
16...	1313	39.0	210	7.4	15.0	7.8	77	62	8	21.9	1.83
JUN											
28...	1225	1.00	235	8.5	30.5	7.1	95	72	8	25.3	2.05
28...	1227	10.0	225	8.5	30.0	7.0	92	--	--	--	--
28...	1229	20.0	225	8.5	29.5	7.0	92	--	--	--	--
28...	1231	36.7	235	7.4	28.0	5.8	74	73	7	25.8	2.08
AUG											
28...	1258	1.00	230	9.1	31.0	8.2	110	80	6	28.3	2.27
28...	1300	10.0	230	8.8	30.0	5.9	78	--	--	--	--
28...	1302	20.0	230	8.7	30.0	5.0	66	--	--	--	--
28...	1304	36.0	230	8.5	30.0	5.0	66	78	5	27.6	2.23

302607095360901 - Lk Conroe Site EC

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
FEB										
16...	11.5	.6	28	2.7	--	56	7.1	17.7	<.1	9.4
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	11.8	.6	28	2.7	--	54	7.3	17.4	<.1	9.9
JUN										
28...	12.5	.6	27	3.0	64	--	6.7	20.0	.1	9.6
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	12.4	.6	26	2.8	66	--	6.2	20.0	.1	10.5
AUG										
28...	13.4	.7	26	3.4	74	--	5.8	19.6	.2	10.8
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	13.3	.7	26	3.3	73	--	5.8	20.0	.2	10.9

302607095360901 - Lk Conroe Site EC

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
FEB										
16...	106	<.010	<.050	<.020	--	.35	<.050	<.010	<10	<2
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	106	<.010	.060	.026	.33	.36	<.050	<.010	<10	<2
JUN										
28...	118	<.010	<.050	.033	.44	.47	<.050	<.010	10	--
28...	--	<.010	<.050	.034	.42	.46	<.050	<.010	<10	7
28...	--	--	--	--	--	--	--	--	--	--
28...	120	<.010	<.050	.213	.45	.67	<.050	<.010	30	--
AUG										
28...	128	<.010	<.050	<.020	--	.40	<.050	<.010	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	<.010	<.050	<.020	--	.40	<.050	<.010	<10	3
28...	127	<.010	<.050	<.020	--	.39	<.050	<.010	--	--

302714095372201 - Lk Conroe Site FC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
FEB							
16...	1335	1.00	210	7.5	16.0	8.0	80
16...	1337	10.0	210	7.4	15.5	7.8	77
16...	1339	18.0	210	7.4	15.5	7.7	76
JUN							
28...	1300	1.00	225	8.9	31.5	7.1	96
28...	1302	10.0	230	8.9	31.0	7.2	97
28...	1304	18.0	230	8.6	31.0	6.6	89
AUG							
28...	1325	1.00	220	9.3	32.5	9.2	127
28...	1327	10.0	220	9.0	31.0	7.4	99
28...	1329	19.0	225	8.3	30.5	4.0	53

303129095360501 - Lk Conroe Site GC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
FEB											
16...	1415	1.00	220	8.1	19.0	7.5	80	60	4	20.9	1.87
16...	1417	10.0	220	7.4	17.5	7.1	73	--	--	--	--
16...	1419	20.0	220	7.4	17.5	7.0	72	--	--	--	--
16...	1420	28.0	220	7.4	17.5	7.0	72	61	7	21.4	1.92
JUN											
28...	1335	1.00	225	8.8	32.5	7.0	96	68	12	23.8	2.05
28...	1337	10.0	230	7.8	31.5	6.4	87	--	--	--	--
28...	1339	24.7	230	7.3	31.0	6.0	81	67	10	23.4	2.08
AUG											
28...	1400	1.00	230	9.0	32.5	7.5	103	74	8	26.0	2.25
28...	1402	10.0	235	8.2	31.5	5.5	74	--	--	--	--
28...	1404	25.0	240	7.6	31.0	3.0	40	76	8	26.6	2.29

303129095360501 - Lk Conroe Site GC

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
FEB											
16...	14.2	.8	33	2.8	--	56	8.9	21.6	<.1	9.3	113
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	14.6	.8	33	2.9	--	54	9.1	21.4	<.1	9.4	113
JUN											
28...	13.9	.7	30	3.4	56	--	7.6	23.0	.1	14.3	122
28...	--	--	--	--	--	--	--	--	--	--	--
28...	14.7	.8	31	3.5	57	--	7.7	24.0	.1	14.8	125
AUG											
28...	14.5	.7	29	3.5	66	--	5.9	22.0	.2	13.6	128
28...	--	--	--	--	--	--	--	--	--	--	--
28...	15.5	.8	29	3.7	68	--	6.6	23.0	.2	15.1	134

08067600 LAKE CONROE NEAR CONROE, TX--Continued

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

303129095360501 - Lk Conroe Site GC

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB										
16...	<.010	<.050	<.020	--	.34	<.050	<.010	--	<10	<2
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	<.010	<.050	.042	.37	.41	<.050	<.010	--	<10	8
JUN										
28...	<.010	<.050	<.020	--	.42	<.050	<.010	--	<10	2
28...	<.010	<.050	.043	.43	.47	<.050	<.010	--	<10	54
28...	<.010	<.050	.178	.44	.62	E.034	.022	.067	<10	141
AUG										
28...	<.010	<.050	<.020	--	.44	<.050	<.010	--	--	--
28...	<.010	<.050	<.020	--	.44	<.050	<.010	--	<10	10
28...	<.010	<.050	<.020	--	.47	<.050	<.010	--	--	--

08067650 WEST FORK SAN JACINTO RIVER BELOW LAKE CONROE NEAR CONROE, TX

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 mi^2.

PERIOD OF RECORD.--Aug 1972 to Sep 1989 (daily mean discharges for periods of outflow from Lake Conroe only), Oct 1989 to Sep 1993 (daily mean discharges 10 ft^3/s or greater). Oct 1993 to Sep 1994 (daily mean discharges 100 ft^3/s or greater). Oct 1994 to Sep 1997 (daily mean discharges 20 ft^3/s or greater). Oct 1997 to current year (daily mean discharges).
Water-quality records.--Chemical data: Oct 1972 to Sep 1986, Oct 1987 to Aug 1989. Biochemical data: Oct 1972 to Sep 1986, Oct 1987 to Aug 1989. Pesticide data: Oct 1972 to Sep 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 by Lake Conroe (station 08067600, conservation pool storage 416,228 acre-ft) 3.0 mi upstream from station. No known diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55 ft^3/s, May 4, gage height, 14.91 ft; minimum discharge, 0.10 ft^3/s, Nov 20, gage height, 13.61 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.75	.93	.75	.96	.90	.85	1.1	1.3	1.5	e1.1	.18
2	1.5	2.3	.86	.75	.99	.89	1.3	18	.97	1.4	.61	.19
3	1.4	1.2	.93	.75	1.0	.87	4.0	2.6	.90	1.2	.38	.19
4	1.4	.75	.93	1.7	1.0	.90	3.0	16	1.6	1.6	.28	.20
5	2.5	.69	1.0	1.5	1.1	.97	1.4	14	2.3	1.8	.28	.21
6	3.3	.66	.76	.86	1.1	1.0	1.1	4.8	1.5	8.0	.28	.22
7	.87	e.69	1.7	.82	1.1	1.1	.98	1.1	.97	3.4	.29	.22
8	.73	e.75	1.7	1.3	1.5	1.1	1.6	.89	1.1	2.6	.28	.23
9	1.0	e.75	.69	1.4	1.5	1.1	1.4	.97	1.6	1.9	.28	.62
10	3.0	e.80	.72	1.0	1.5	1.2	1.1	1.0	4.4	1.4	.26	.33
11	1.9	e.84	.76	.79	1.5	2.4	1.0	1.3	3.5	1.2	.27	.40
12	.86	e.80	2.0	.70	1.6	1.4	3.6	1.3	7.9	2.0	.26	.45
13	.69	e.75	2.1	.63	1.5	.87	2.5	1.0	5.8	2.7	.26	.91
14	.69	e.80	.95	1.3	1.5	.81	1.2	1.6	5.9	e2.0	.24	1.6
15	.65	e.76	1.2	.78	1.8	.82	1.1	1.9	1.9	e1.5	.27	1.5
16	.64	e.80	.91	.79	4.7	.84	1.0	1.4	1.5	e1.1	.27	.73
17	.80	e.78	.75	.93	4.5	3.4	1.0	1.2	1.2	e1.0	.27	.40
18	.86	e.74	.76	.89	2.4	2.1	1.1	1.6	1.7	e.96	.25	.34
19	.99	e.70	.84	2.4	2.1	1.1	.73	1.9	3.4	e.91	.23	.52
20	.80	e.72	.99	2.8	2.3	.95	.64	15	3.2	e.85	.23	.65
21	.60	e.76	1.1	.95	2.3	.88	.64	4.0	2.5	e.77	.23	.93
22	.60	.72	1.0	.74	1.8	1.2	.65	1.5	1.4	e.70	.25	1.7
23	.55	3.0	.98	.76	2.2	1.0	.83	1.1	2.0	e.64	.26	1.6
24	.55	1.7	.95	.86	1.7	.92	.83	1.2	1.4	e.60	.27	1.5
25	.55	1.1	.93	.96	.92	.92	.80	.83	1.2	e.56	.25	1.2
26	.55	.92	.86	.96	.88	.97	.76	.90	.97	e.52	.29	2.9
27	.51	1.1	.81	4.8	.83	1.0	1.0	.72	1.6	e.48	.29	2.9
28	.60	.99	.80	6.0	.85	.96	.75	3.5	6.1	e.46	.25	.46
29	.55	.86	.93	1.7	.91	.90	.63	3.1	3.8	e.43	.23	.54
30	.69	.93	.74	1.2	---	.88	.64	1.6	2.5	e.40	.21	.39
31	.84	---	.80	1.0	---	.83	---	1.2	---	e.52	.19	---
TOTAL	32.87	29.11	31.38	42.77	48.04	35.18	38.13	108.31	76.11	45.10	9.31	24.21
MEAN	1.06	.97	1.01	1.38	1.66	1.13	1.27	3.49	2.54	1.45	.30	.81
MAX	3.3	3.0	2.1	6.0	4.7	3.4	4.0	18	7.9	8.0	1.1	2.9
MIN	.51	.66	.69	.63	.83	.81	.63	.72	.90	.40	.19	.18
MED	.80	.79	.93	.95	1.5	.96	1.0	1.4	1.7	1.1	.27	.49
AC-FT	65	58	62	85	95	70	76	215	151	89	18	48

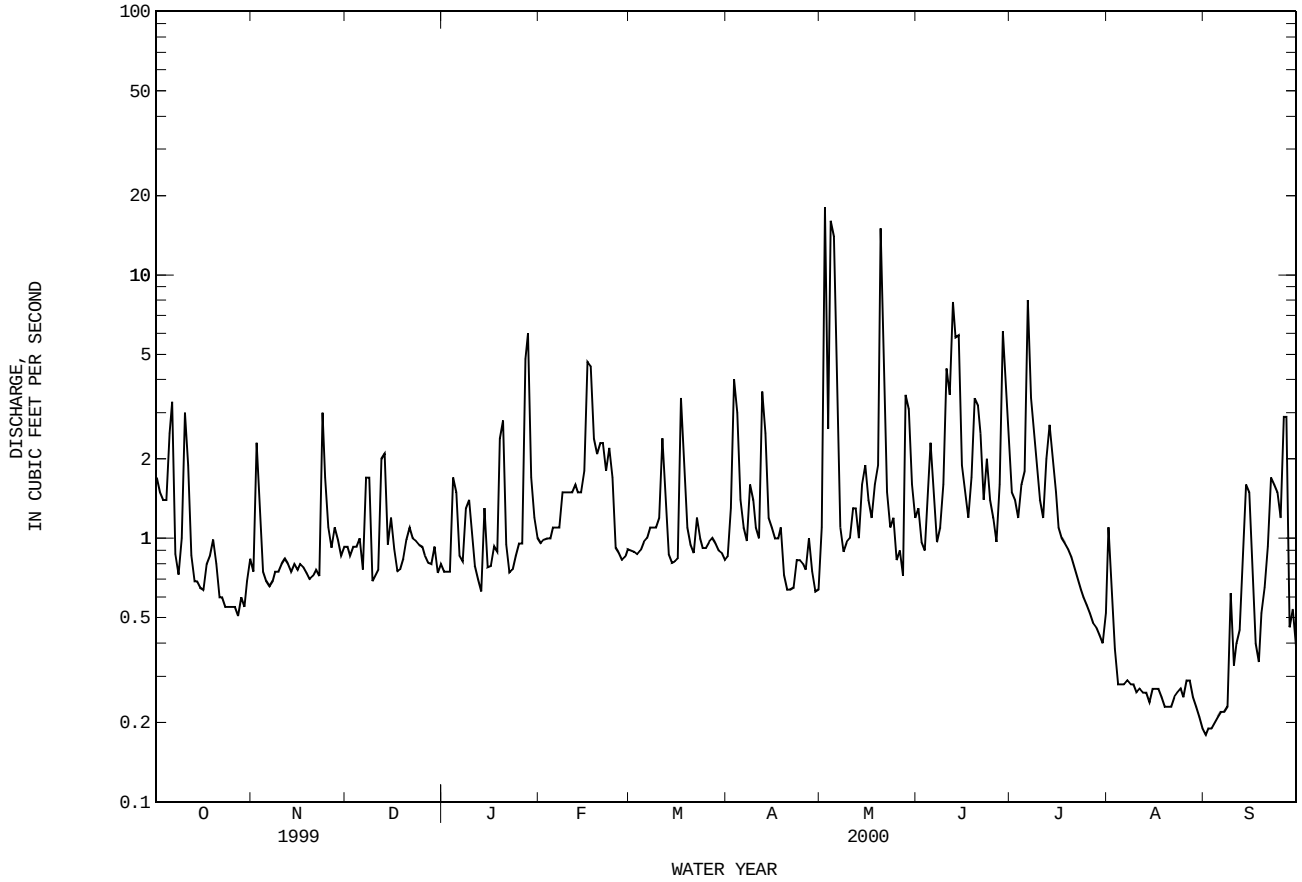
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000hz, BY WATER YEAR (WY)

MEAN	145	359	301	259	422	263	285	425	259	62.5	35.2	98.9
MAX	601	3003	1023	1776	1008	856	1815	1899	1143	232	124	820
(WY)	1985	1999	1977	1998	1979	1984	1979	1983	1979	1989	1983	1979
MIN	.000	.000	.000	.000	.000	.000	.000	.16	.000	.000	.000	.000
(WY)	1987	1981	1979	1981	1981	1981	1981	1981	1988	1986	1982	1984

08067650 WEST FORK SAN JACINTO RIVER BELOW LAKE CONROE NEAR CONROE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000hz	
ANNUAL TOTAL	35998.41		520.52			
ANNUAL MEAN	98.6		1.42		229	
HIGHEST ANNUAL MEAN					595	1979
LOWEST ANNUAL MEAN					1.42	2000
HIGHEST DAILY MEAN	1650	Apr 5	18	May 2	43900	Oct 18 1994
LOWEST DAILY MEAN	.51	Oct 27	.18	Sep 1	.00	Oct 26 1974
ANNUAL SEVEN-DAY MINIMUM	.55	Oct 23	.20	Aug 30	.00	Aug 4 1976
INSTANTANEOUS PEAK FLOW			55	May 4	56000	Oct 17 1994
INSTANTANEOUS PEAK STAGE			14.91	May 4	42.68	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	71400		1030		165600	
10 PERCENT EXCEEDS	350		2.5		1120	
50 PERCENT EXCEEDS	2.7		.95		6.5	
90 PERCENT EXCEEDS	.76		.32		.00	

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



08068000 WEST FORK SAN JACINTO RIVER NEAR CONROE, TX

LOCATION.--Lat 30°14′40", long 95°27′25", Montgomery County, Hydrologic Unit 12040101, near right bank at downstream side of pier of bridge on Interstate Highway 45 and U.S. Highway 75, 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 mi^2.

PERIOD OF RECORD.--May 1924 to Sep 1927, Jul 1939 to current year.
Water-quality records.--Chemical data: Mar 1959 to Sep 1994. Biochemical data: Mar 1959 to Sep 1994. Pesticide data: May 1975 to Jun 1982. Sediment data: Feb 1966 to Sep 1967, Oct 1974 to Sep 1994. Specific conductance: Oct 1961 to Sep 1990. Water temperature: Oct 1961 to Sep 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 Sep 30, 1927, nonrecording gage at railroad bridge 300 ft downstream at datum 30.10 ft higher. Jul 13, 1939 to Sep 30, 1963, water-stage recorder at datum 5.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair. Since Jan 9, 1973, at least 10% of contributing drainage area has been regulated by Lake Conroe (station 08067600, conservation pool storage 416,228 acre-ft), 14.5 mi upstream from station. There are no large diversions above station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-27, 1940-72), prior to regulation by Lake Conroe, 477 ft^3/s (345,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-27, 1940-72).--Maximum discharge, 110,000 ft^3/s Nov 25, 1940 (gage height, 30.85 ft), present datum, from rating curve extended above 43,000 ft^3/s on basis of velocity-area studies; no flow Jun 14, 1956, and Sep 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 ft^3/s, from rating curve as explained above.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	25	20	26	35	e25	30	33	51	29	17	12
2	14	24	21	27	34	e26	152	316	48	31	16	12
3	13	23	28	27	33	e27	115	129	45	e28	16	12
4	13	24	81	26	32	e26	68	188	42	e26	17	12
5	14	22	148	26	30	e25	44	824	45	e24	16	12
6	16	21	44	27	29	e27	38	429	42	e23	14	12
7	18	20	35	27	31	e26	35	245	37	e22	14	12
8	17	22	34	37	33	e25	49	115	36	e21	14	12
9	18	22	43	33	31	e25	34	78	87	e20	15	38
10	33	24	40	30	30	e24	30	63	97	e21	15	27
11	20	24	31	28	30	e27	30	56	65	e20	14	18
12	19	24	78	28	29	e28	62	50	55	e20	14	16
13	18	22	59	27	28	e29	51	47	51	e19	15	28
14	16	22	39	26	28	e28	37	45	47	e19	14	35
15	15	24	33	26	28	e34	33	44	46	e18	15	32
16	15	24	32	26	28	e38	31	43	59	e18	15	31
17	15	24	30	26	30	e35	30	42	55	e17	15	25
18	15	23	30	26	30	e33	29	41	52	e17	14	21
19	21	23	29	27	28	e31	28	44	52	e16	14	19
20	21	22	29	27	26	e29	26	641	62	15	13	19
21	19	20	30	28	27	e35	25	300	46	16	14	20
22	18	65	30	26	28	51	23	199	42	15	15	27
23	18	149	28	27	46	43	23	107	40	16	19	21
24	17	45	28	27	37	39	24	80	40	17	16	20
25	18	29	27	27	32	35	23	65	37	16	15	20
26	19	24	26	27	33	36	22	57	35	16	15	19
27	19	22	28	38	31	36	20	51	33	16	14	17
28	19	21	28	138	28	33	19	85	34	16	14	18
29	22	22	27	52	e27	33	18	55	34	16	13	16
30	29	22	27	42	---	31	18	68	30	16	12	16
31	34	---	27	37	---	31	---	52	---	17	13	---
TOTAL	579	878	1190	1022	892	971	1167	4592	1445	601	457	599
MEAN	18.7	29.3	38.4	33.0	30.8	31.3	38.9	148	48.2	19.4	14.7	20.0
MAX	34	149	148	138	46	51	152	824	97	31	19	38
MIN	13	20	20	26	26	24	18	33	30	15	12	12
AC-FT	1150	1740	2360	2030	1770	1930	2310	9110	2870	1190	906	1190

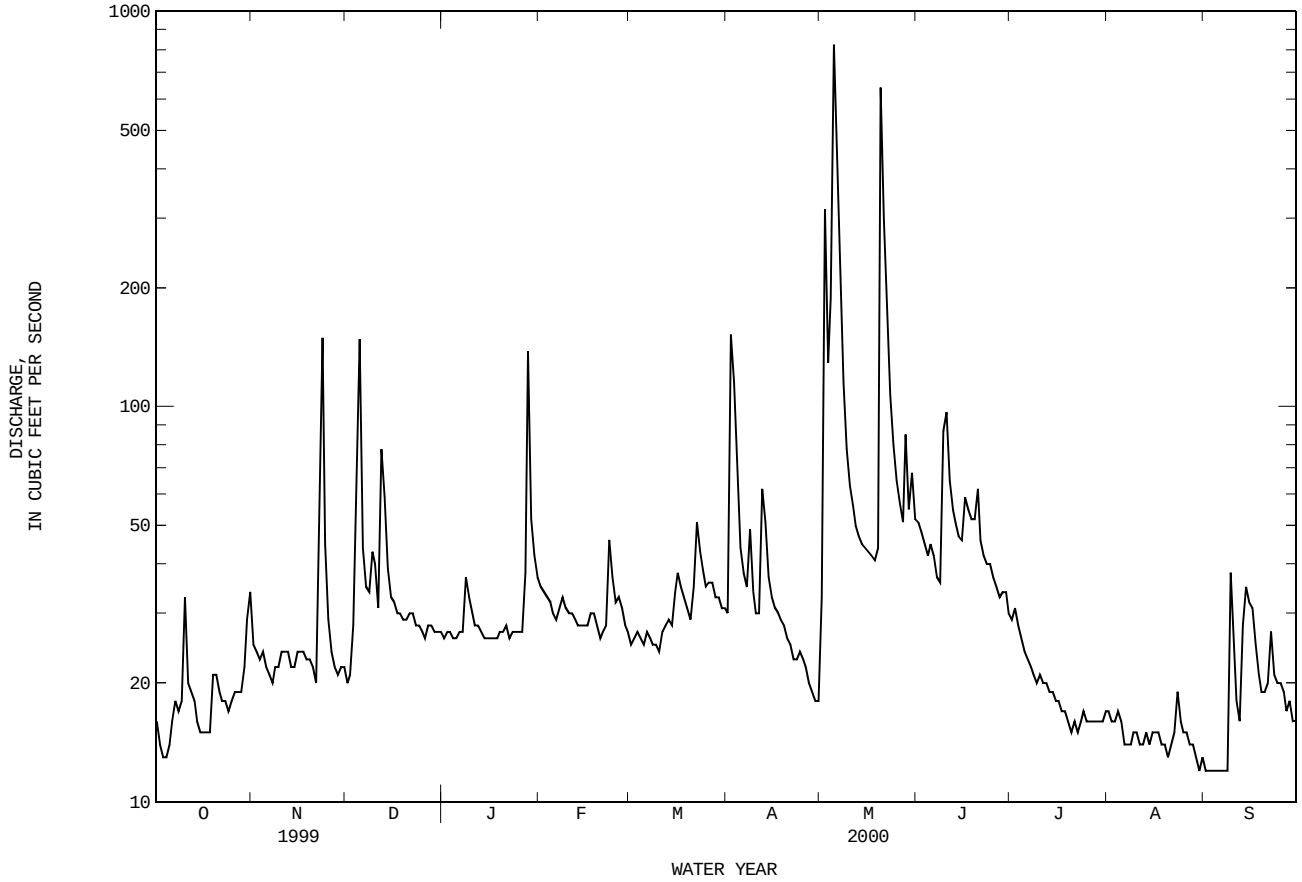
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000hz, BY WATER YEAR (WY)

MEAN	547	592	652	911	882	643	712	684	603	113	75.9	228
MAX	7836	5757	2064	3360	3258	1705	4185	4153	2609	392	368	1945
(WY)	1995	1999	1977	1998	1992	1995	1979	1983	1979	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000hz	
ANNUAL TOTAL	63659		14393			
ANNUAL MEAN	174		39.3		551	
HIGHEST ANNUAL MEAN					1444	1995
LOWEST ANNUAL MEAN					39.3	2000
HIGHEST DAILY MEAN	3010	Apr 6	824	May 5	97200	Oct 18 1994
LOWEST DAILY MEAN	12	Sep 18	12	Aug 30	8.9	Oct 3 1998
ANNUAL SEVEN-DAY MINIMUM	13	Sep 16	12	Sep 1	11	Aug 18 1981
INSTANTANEOUS PEAK FLOW			989	May 5	115000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			7.24	May 5	32.30	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	126300		28550		399500	
10 PERCENT EXCEEDS	483		55		1450	
50 PERCENT EXCEEDS	50		27		90	
90 PERCENT EXCEEDS	18		15		24	

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



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 mi^2.

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 Sep 1999. Biochemical data: Feb 1984 to Sep 1999. Pesticide data: Feb 1984 to Sep 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.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in 1984, at least 10% of contributing drainage area has been regulated by Lake Conroe (station 08067600, conservation pool storage 416,228 acre-ft), 34.3 mi upstream of station. During periods of low base flow into Lake Houston, occasional releases are made from Lake Conroe in order to maintain water levels in Lake Houston (station 08072000, conservation pool storage 128,863 acre-ft), which has several large diversions. There are no large diversions upstream from station. There is only minor wastewater effluent being discharged by the city of Conroe and by other smaller communities into the river upstream from station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	38	33	34	43	34	28	28	41	30	e18	13
2	29	28	35	34	40	34	151	364	35	25	20	14
3	27	25	36	33	40	34	272	608	33	23	30	12
4	26	26	45	31	38	32	192	209	32	22	21	12
5	25	27	216	31	36	32	94	1110	35	22	e18	12
6	24	26	106	32	35	32	65	748	34	25	e16	12
7	23	25	63	33	37	33	51	433	31	24	e16	12
8	24	25	53	37	38	33	53	230	29	21	24	13
9	25	25	48	46	38	33	73	132	37	e19	23	17
10	28	25	60	41	37	31	47	90	108	e19	e17	30
11	41	25	50	37	36	33	42	70	90	e19	e15	36
12	36	25	50	36	35	32	45	58	63	e17	e14	23
13	31	26	104	35	35	34	108	50	47	e16	e13	22
14	27	26	76	35	34	34	83	46	42	e16	e18	29
15	26	25	54	34	34	35	54	41	37	e15	e17	44
16	26	26	44	34	35	35	44	39	37	e15	e15	40
17	26	26	41	33	36	33	40	37	59	e15	14	32
18	25	25	39	33	36	35	37	35	61	e14	12	27
19	27	26	38	34	35	42	34	43	61	e14	12	23
20	28	26	38	38	34	38	32	732	69	e14	12	22
21	28	26	38	36	33	37	30	682	59	e14	13	25
22	27	28	37	35	34	40	28	320	41	e13	12	32
23	26	178	37	33	41	44	29	193	35	e13	14	33
24	26	188	36	32	56	39	28	110	33	e13	16	32
25	25	75	35	32	47	36	28	78	31	e13	17	25
26	25	49	35	31	41	34	27	60	30	e13	15	21
27	25	40	34	35	39	33	27	51	27	e13	15	25
28	25	38	34	126	37	31	26	52	27	e12	14	21
29	25	35	34	110	35	31	26	96	28	e18	13	20
30	26	33	34	65	---	30	26	62	26	21	13	19
31	40	---	34	49	---	28	---	58	---	e19	13	---
TOTAL	855	1216	1617	1285	1095	1062	1820	6865	1318	547	500	698
MEAN	27.6	40.5	52.2	41.5	37.8	34.3	60.7	221	43.9	17.6	16.1	23.3
MAX	41	188	216	126	56	44	272	1110	108	30	30	44
MIN	23	25	33	31	33	28	26	28	26	12	12	12
AC-FT	1700	2410	3210	2550	2170	2110	3610	13620	2610	1080	992	1380

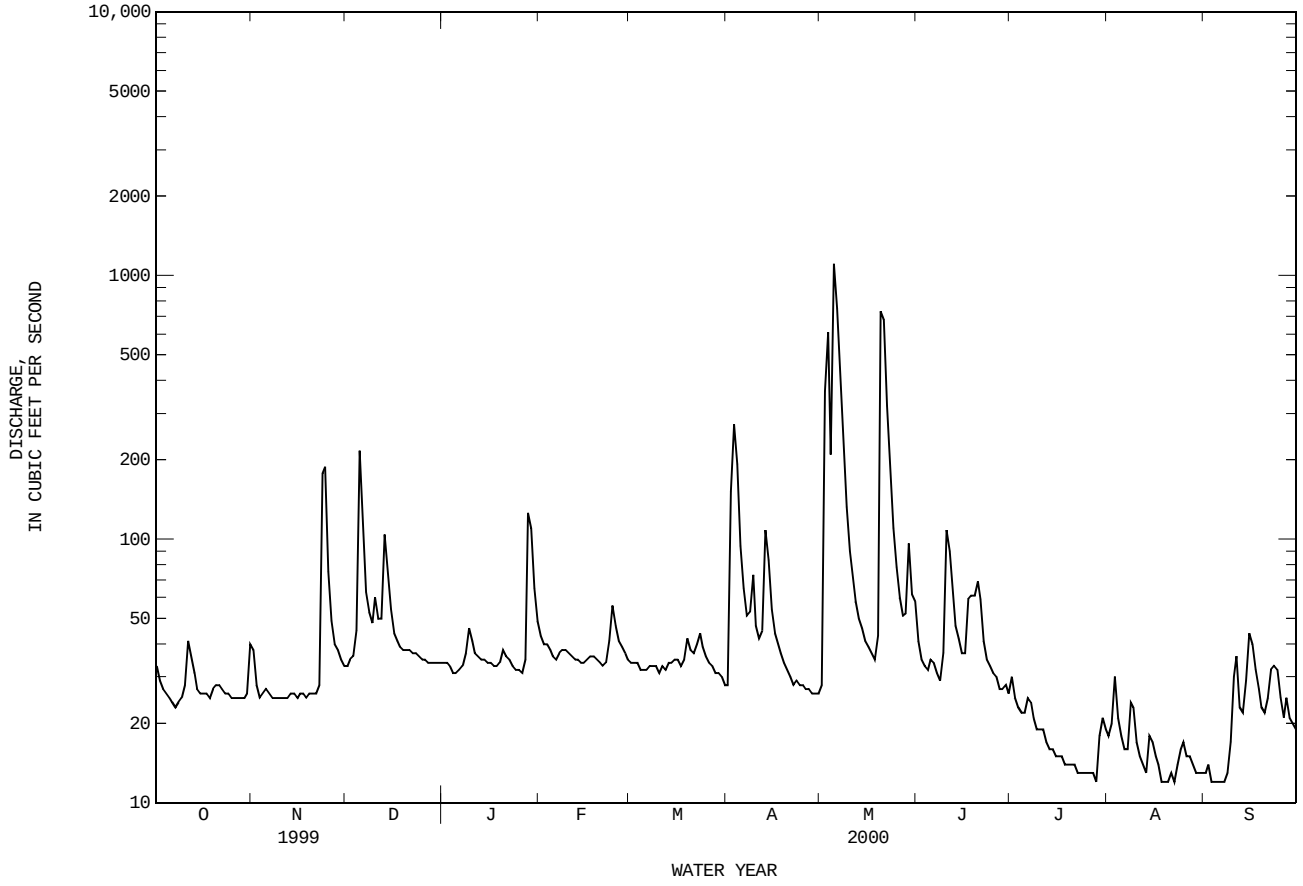
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000h, BY WATER YEAR (WY)

MEAN	988	878	860	1178	1079	904	658	613	712	129	86.8	102
MAX	10910	8244	1881	3199	3763	2041	2229	2174	3169	536	223	323
(WY)	1995	1999	1992	1998	1992	1992	1991	1993	1993	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000h	
ANNUAL TOTAL	79886		18878			
ANNUAL MEAN	219		51.6		685	
HIGHEST ANNUAL MEAN					1694	1995
LOWEST ANNUAL MEAN					51.6	2000
HIGHEST DAILY MEAN	3380	Jan 5	1110	May 5	113000	Oct 19 1994
LOWEST DAILY MEAN	23	Sep 22	12	Jul 28	12	Jul 28 2000
ANNUAL SEVEN-DAY MINIMUM	24	Sep 16	12	Sep 1	12	Sep 1 2000
INSTANTANEOUS PEAK FLOW			1390	May 5	130000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			14.61	May 5	40.10	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	158500		37440		496200	
10 PERCENT EXCEEDS	548		66		1780	
50 PERCENT EXCEEDS	78		33		103	
90 PERCENT EXCEEDS	26		15		31	

e Estimated
h See PERIOD OF RECORD paragraph.

08068090 WEST FORK SAN JACINTO RIVER ABOVE LAKE HOUSTON NEAR PORTER, TX--Continued



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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct 1999 to Sep 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s May 21, 2000 (gage height, 145.38 ft); no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft^3/s May 21, 2000 (gage height, 145.38 ft); no flow many days.

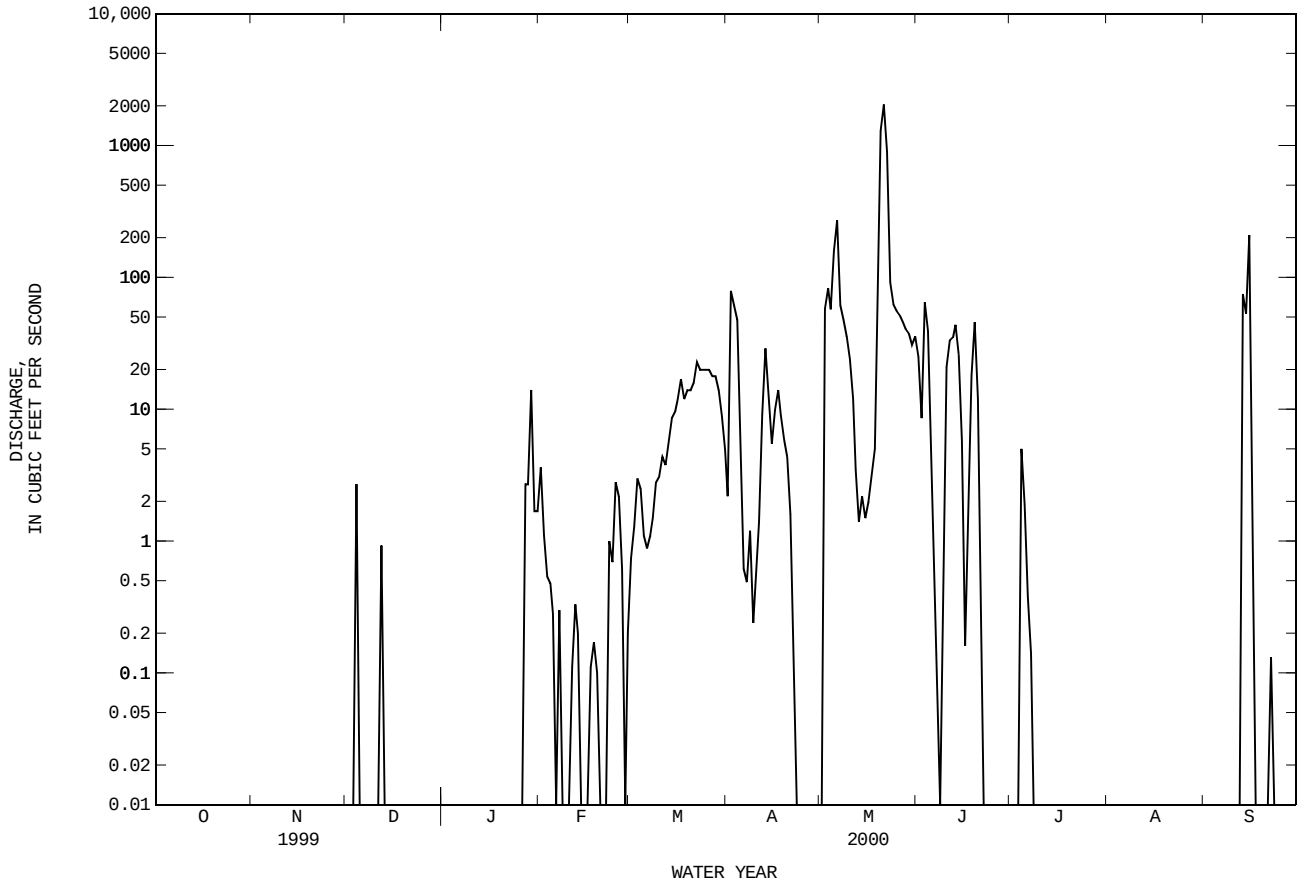
PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 21	1045	2,400	145.38	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	3.6	.74	2.2	.00	25	.00	.00	.00
2	.00	.00	.00	.00	1.1	1.3	79	58	8.6	.00	.00	.00
3	.00	.00	.00	.00	.54	3.0	62	83	65	.00	.00	.00
4	.00	.00	2.7	.00	.48	2.5	48	57	39	5.0	.00	.00
5	.00	.00	.00	.00	.28	1.1	9.6	159	10	1.9	.00	.00
6	.00	.00	.00	.00	.00	.88	.62	271	2.8	.38	.00	.00
7	.00	.00	.00	.00	.30	1.1	.49	62	.38	.14	.00	.00
8	.00	.00	.00	.00	.00	1.5	1.2	48	.00	.00	.00	.00
9	.00	.00	.00	.00	.01	2.8	.24	36	.09	.00	.00	.00
10	.00	.00	.00	.00	.00	3.1	.57	24	21	.00	.00	.00
11	.00	.00	.00	.00	.11	4.4	1.4	12	33	.00	.00	.00
12	.00	.00	.92	.00	.33	3.8	9.2	3.5	35	.00	.00	.00
13	.00	.00	.00	.00	.20	5.6	29	1.4	44	.00	.00	75
14	.00	.00	.00	.00	.00	8.7	14	2.2	26	.00	.00	53
15	.00	.00	.00	.00	.00	9.7	5.5	1.5	5.7	.00	.00	209
16	.00	.00	.00	.00	.00	12	9.9	2.0	.16	.00	.00	14
17	.00	.00	.00	.00	.11	17	14	3.1	2.1	.00	.00	.00
18	.00	.00	.00	.00	.17	12	9.1	5.0	18	.00	.00	.00
19	.00	.00	.00	.00	.10	14	6.0	40	46	.00	.00	.00
20	.00	.00	.00	.00	.00	14	4.4	1300	12	.00	.00	.00
21	.00	.00	.00	.00	.00	16	1.6	2050	.22	.00	.00	.00
22	.00	.00	.00	.00	.00	23	.21	899	.00	.00	.00	.13
23	.00	.00	.00	.00	1.0	20	.00	92	.00	.00	.00	.00
24	.00	.00	.00	.00	.69	20	.00	63	.00	.00	.00	.00
25	.00	.00	.00	.00	2.8	20	.00	56	.00	.00	.00	.00
26	.00	.00	.00	.00	2.2	20	.00	52	.00	.00	.00	.00
27	.00	.00	.00	2.7	.61	18	.00	46	.00	.00	.00	.00
28	.00	.00	.00	2.7	.00	18	.00	41	.00	.00	.00	.00
29	.00	.00	.00	14	.20	14	.00	38	.00	.00	.00	.00
30	.00	.00	.00	1.7	---	8.9	.00	31	.00	.00	.00	.00
31	.00	---	.00	1.7	---	4.9	---	36	---	.00	.00	---
TOTAL	0.00	0.00	3.62	22.80	14.83	302.02	308.23	5572.70	394.05	7.42	0.00	351.13
MEAN	.000	.000	.12	.74	.51	9.74	10.3	180	13.1	.24	.000	11.7
MAX	.00	.00	2.7	14	3.6	23	79	2050	65	5.0	.00	209
MIN	.00	.00	.00	.00	.00	.74	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	7.2	45	29	599	611	11050	782	15	.00	696

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1999 to Sep 2000.
pH: Oct 1999 to Sep 2000.
WATER TEMPERATURE: Oct 1999 to Sep 2000.
DISSOLVED OXYGEN: Oct 1999 to Sep 2000.

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

REMARKS.--Interuption in the record was caused by malfunctions of the instrumentation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 348 microsiemens, Apr 22, 2000; minimum, 29 microsiemens, May 19, 2000.
pH: Maximum, 8.7 units, Apr 2, 2000; minimum, 5.9 units, May 21, 2000.
WATER TEMPERATURES: Maximum, 30.4°C, Jul 16, 17, 2000; minimum, 7.1°C, Jan 30, 2000.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L, Jan 27, 2000; minimum, 0.2 mg/L, Feb 21, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 348 microsiemens, Apr 22; minimum, 29 microsiemens, May 19.
pH: Maximum, 8.7 units, Apr 2; minimum, 5.9 units, May 21.
WATER TEMPERATURE: Maximum, 30.4°C, Jul 16, 17; minimum, 7.1°C, Jan 30.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L, Jan 27; minimum, 0.2 mg/L, Feb 21.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	174	152	165	---	---	---	---	---	---	238	230	232
2	185	165	175	---	---	---	---	---	---	236	227	230
3	186	175	180	---	---	---	---	---	---	291	227	242
4	---	---	---	---	---	---	---	---	---	238	231	233
5	---	---	---	---	---	---	---	---	---	236	232	234
6	---	---	---	---	---	---	287	214	257	239	233	235
7	---	---	---	---	---	---	302	287	296	263	232	238
8	---	---	---	---	---	---	302	290	299	241	129	195
9	---	---	---	---	---	---	300	196	281	228	213	222
10	---	---	---	---	---	---	309	299	305	231	227	229
11	---	---	---	---	---	---	315	308	311	239	229	232
12	---	---	---	---	---	---	---	---	---	240	234	236
13	---	---	---	---	---	---	300	287	295	240	237	239
14	---	---	---	---	---	---	301	278	293	242	235	239
15	---	---	---	---	---	---	285	270	281	243	237	239
16	---	---	---	---	---	---	272	257	266	244	239	242
17	---	---	---	---	---	---	265	247	255	246	241	244
18	---	---	---	---	---	---	249	238	243	250	242	246
19	---	---	---	---	---	---	244	237	240	257	245	250
20	---	---	---	---	---	---	259	239	245	262	247	250
21	---	---	---	---	---	---	245	238	242	253	249	251
22	---	---	---	---	---	---	241	237	239	255	245	251
23	---	---	---	---	---	---	241	236	239	255	251	252
24	---	---	---	---	---	---	242	237	239	256	252	254
25	---	---	---	---	---	---	241	237	239	256	252	254
26	---	---	---	---	---	---	241	235	239	258	254	256
27	---	---	---	---	---	---	241	230	238	261	69	214
28	---	---	---	---	---	---	241	237	239	251	211	237
29	---	---	---	---	---	---	242	234	238	250	234	244
30	---	---	---	---	---	---	244	232	236	251	245	249
31	---	---	---	---	---	---	235	231	233	250	240	245
MONTH	---	---	---	---	---	---	---	---	---	291	69	239

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	246	231	240	288	274	284	274	271	273	---	---	---
2	249	238	242	290	285	288	274	48	185	---	---	---
3	255	241	246	295	286	288	241	138	203	---	---	---
4	261	252	256	292	287	289	246	216	237	---	---	---
5	273	260	264	291	279	288	239	231	233	---	---	---
6	282	271	276	292	287	289	246	235	238	112	72	86
7	300	172	279	298	285	289	247	239	243	134	107	120
8	309	274	300	295	284	290	253	141	237	158	132	145
9	314	307	311	302	289	294	257	239	250	177	154	167
10	314	306	309	303	272	297	256	246	254	---	---	---
11	310	304	306	298	263	287	259	253	256	---	---	---
12	311	305	307	299	288	293	262	79	223	---	---	---
13	316	304	308	291	280	290	285	254	265	---	---	---
14	315	304	307	290	260	282	289	259	269	---	---	---
15	313	297	306	292	270	280	277	258	263	---	---	---
16	315	300	307	287	278	283	288	260	268	---	---	---
17	312	298	305	285	147	262	307	274	287	---	---	---
18	315	298	308	280	265	273	335	294	303	267	249	258
19	313	300	309	278	232	270	334	296	308	266	29	225
20	312	305	308	279	275	277	342	303	312	79	30	67
21	315	304	306	287	233	279	340	309	313	73	48	55
22	309	301	304	272	203	260	348	311	319	107	60	83
23	305	140	245	276	260	271	322	313	317	149	107	132
24	301	284	292	280	269	275	338	320	323	173	146	159
25	293	280	288	279	265	275	323	310	317	188	168	177
26	292	282	286	278	272	276	---	---	---	201	182	192
27	293	284	288	279	270	277	---	---	---	210	193	203
28	301	284	288	278	267	275	---	---	---	239	204	212
29	288	282	286	278	270	274	---	---	---	228	211	220
30	---	---	---	274	268	272	---	---	---	246	221	231
31	---	---	---	273	268	271	---	---	---	236	224	230
MONTH	316	140	289	303	147	281	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	238	227	233	225	214	219	---	---	---	---	---	---
2	253	231	241	226	216	221	---	---	---	---	---	---
3	283	162	208	228	216	221	---	---	---	---	---	---
4	167	137	151	226	167	219	---	---	---	---	---	---
5	171	142	155	239	217	228	---	---	---	---	---	---
6	188	166	177	247	230	239	---	---	---	---	---	---
7	188	177	184	250	235	242	---	---	---	---	---	---
8	194	183	189	244	232	238	---	---	---	---	---	---
9	211	128	190	240	230	236	---	---	---	---	---	---
10	203	61	184	237	225	231	---	---	---	---	---	---
11	254	157	218	234	223	228	---	---	---	---	---	---
12	280	206	250	233	221	226	---	---	---	---	---	---
13	232	179	211	230	221	225	---	---	---	---	---	---
14	228	171	193	231	221	225	---	---	---	---	---	---
15	237	219	227	233	218	225	---	---	---	112	47	92
16	240	224	232	232	218	226	---	---	---	127	101	117
17	230	55	214	---	---	---	---	---	---	143	124	134
18	238	205	221	---	---	---	---	---	---	152	95	133
19	243	204	226	---	---	---	---	---	---	154	146	152
20	229	207	216	---	---	---	---	---	---	158	152	155
21	235	216	226	---	---	---	---	---	---	160	105	153
22	240	228	232	---	---	---	---	---	---	148	80	132
23	236	224	230	---	---	---	---	---	---	155	138	149
24	233	220	225	---	---	---	---	---	---	164	149	155
25	228	218	224	---	---	---	---	---	---	---	---	---
26	228	216	224	---	---	---	---	---	---	---	---	---
27	229	219	223	---	---	---	---	---	---	176	167	172
28	227	215	220	---	---	---	---	---	---	182	171	174
29	225	214	219	---	---	---	---	---	---	184	169	175
30	225	214	219	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	283	55	212	---	---	---	---	---	---	---	---	---

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued

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

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.4	7.3	---	---	6.9	6.8	6.8	6.6	---	---	---	---
2	8.7	6.8	---	---	6.8	6.8	6.9	6.6	---	---	---	---
3	7.3	7.1	---	---	6.9	6.7	6.9	6.6	---	---	---	---
4	7.3	7.2	---	---	6.8	6.6	7.2	6.6	---	---	---	---
5	7.3	7.2	---	---	6.7	6.6	6.7	6.5	---	---	---	---
6	7.2	7.1	6.5	6.3	6.8	6.7	6.7	6.6	---	---	---	---
7	7.2	7.1	6.7	6.5	6.8	6.7	7.2	6.6	---	---	---	---
8	7.9	7.2	6.7	6.6	6.8	6.6	7.0	6.8	---	---	---	---
9	7.2	7.1	6.6	6.5	7.3	6.6	7.0	6.8	---	---	---	---
10	7.1	7.0	6.6	6.5	7.9	6.6	7.0	6.8	---	---	---	---
11	7.1	7.0	---	---	7.3	6.7	7.0	6.8	---	---	---	---
12	8.0	7.1	---	---	7.0	6.9	7.0	6.7	---	---	---	---
13	7.1	7.0	---	---	7.0	6.9	7.0	6.7	---	---	---	---
14	7.1	7.1	---	---	6.9	6.8	7.0	6.6	---	---	---	---
15	7.1	7.0	---	---	---	---	7.0	6.6	---	---	---	---
16	7.1	6.9	---	---	---	---	7.1	6.7	---	---	---	---
17	7.1	6.9	---	---	---	---	7.1	6.8	---	---	---	---
18	7.2	7.0	6.8	6.7	6.6	6.4	7.1	6.8	---	---	---	---
19	7.3	7.0	8.0	6.7	6.8	6.6	---	---	---	---	---	---
20	7.3	7.0	6.7	6.1	6.7	6.6	---	---	---	---	---	---
21	7.3	7.1	6.1	5.9	6.6	6.5	---	---	---	---	---	---
22	7.3	7.2	6.3	6.1	6.6	6.4	---	---	---	---	---	---
23	7.2	7.0	6.5	6.3	6.6	6.4	---	---	---	---	---	---
24	7.2	7.0	6.6	6.5	6.5	6.3	---	---	---	---	---	---
25	7.1	7.0	6.7	6.6	6.5	6.3	---	---	---	---	---	---
26	7.2	6.9	6.7	6.7	6.6	6.3	---	---	---	---	---	---
27	7.1	6.9	6.7	6.7	6.6	6.4	---	---	---	---	7.4	7.1
28	---	---	6.8	6.7	6.7	6.5	---	---	---	---	7.5	7.2
29	---	---	6.8	6.7	6.7	6.5	---	---	---	---	7.5	7.2
30	---	---	7.0	6.7	6.8	6.6	---	---	---	---	7.7	7.3
31	---	---	6.8	6.7	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.2	16.9	18.8	---	---	---	---	---	---	13.7	9.5	11.2
2	22.0	17.5	19.8	---	---	---	---	---	---	17.2	13.4	15.2
3	24.1	20.8	22.5	---	---	---	---	---	---	17.0	13.3	15.9
4	24.6	21.5	22.9	---	---	---	---	---	---	13.3	9.1	11.0
5	24.2	20.9	22.1	---	---	---	17.2	14.1	15.4	10.4	7.5	8.9
6	23.2	15.0	19.3	---	---	---	14.1	11.3	12.8	11.1	9.4	10.2
7	---	---	---	---	---	---	13.0	10.1	11.5	12.4	10.8	11.2
8	---	---	---	---	---	---	13.9	11.9	12.9	13.6	11.3	12.6
9	---	---	---	---	---	---	17.0	12.9	14.6	14.3	11.6	12.6
10	---	---	---	---	---	---	14.1	11.6	12.7	13.8	11.6	12.6
11	---	---	---	---	---	---	14.9	11.8	12.9	15.7	12.0	13.6
12	---	---	---	---	---	---	---	---	---	19.0	14.4	16.3
13	---	---	---	---	---	---	14.3	12.5	13.7	18.2	15.1	16.8
14	---	---	---	---	---	---	13.7	11.5	12.4	15.1	12.8	14.0
15	---	---	---	---	---	---	12.0	9.7	11.0	15.4	11.8	13.4
16	---	---	---	---	---	---	10.8	8.8	9.8	16.6	13.6	14.9
17	---	---	---	---	---	---	10.9	8.7	9.8	16.9	14.0	15.4
18	---	---	---	---	---	---	11.4	10.3	10.9	18.3	15.3	16.5
19	---	---	---	---	---	---	12.5	9.3	10.4	18.4	16.1	17.1
20	---	---	---	---	---	---	11.6	10.7	11.0	17.4	14.0	15.6
21	---	---	---	---	---	---	11.4	9.4	10.1	14.0	12.9	13.2
22	---	---	---	---	---	---	10.6	8.4	9.3	16.8	13.4	14.9
23	---	---	---	---	---	---	10.5	8.1	8.9	17.1	15.0	15.6
24	---	---	---	---	---	---	10.5	7.7	8.9	15.0	12.4	13.6
25	---	---	---	---	---	---	10.3	7.9	8.7	13.0	11.0	12.0
26	---	---	---	---	---	---	10.0	7.8	8.7	11.7	10.3	10.7
27	---	---	---	---	---	---	12.2	9.2	10.4	10.4	7.6	9.5
28	---	---	---	---	---	---	15.1	8.5	9.5	9.3	8.3	8.9
29	---	---	---	---	---	---	10.2	8.1	9.2	8.3	7.5	7.7
30	---	---	---	---	---	---	12.8	9.1	10.6	7.9	7.1	7.6
31	---	---	---	---	---	---	11.7	10.2	11.0	9.0	7.8	8.3
MONTH	---	---	---	---	---	---	---	---	---	19.0	7.1	12.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.5	8.9	9.2	19.4	18.0	18.6	22.2	21.3	21.7	23.9	18.9	22.1
2	10.2	9.4	9.8	21.2	19.1	20.1	22.1	19.8	21.2	21.9	19.2	20.2
3	12.3	9.2	10.4	20.5	18.2	19.8	20.5	19.2	19.9	---	---	---
4	11.5	9.8	10.6	18.2	16.4	17.4	19.5	18.1	18.8	---	---	---
5	11.3	9.4	10.2	17.8	15.6	16.7	19.2	17.0	18.0	---	---	---
6	11.1	8.9	10.0	18.4	16.6	17.3	21.1	17.9	19.1	22.7	20.5	21.4
7	16.9	10.9	12.2	20.8	18.0	19.2	23.3	19.1	20.8	23.6	22.2	22.9
8	15.3	12.6	13.5	21.2	19.9	20.5	22.4	19.2	20.3	24.6	23.1	23.8
9	14.8	12.0	13.4	22.6	20.8	21.4	20.0	17.3	18.5	25.2	23.9	24.5
10	16.1	13.6	14.6	22.8	21.4	22.1	20.0	17.9	18.8	25.8	24.5	25.0
11	16.9	15.0	15.7	21.8	17.3	19.0	21.4	19.3	20.1	---	---	---
12	17.5	15.6	16.3	17.8	15.6	16.9	20.6	18.8	19.9	---	---	---
13	18.2	17.0	17.5	17.8	15.4	16.8	19.7	18.6	19.1	---	---	---
14	17.4	15.4	16.3	17.7	16.9	17.3	19.9	17.8	18.7	---	---	---
15	18.3	16.3	17.1	18.3	17.3	17.7	20.7	18.2	19.2	---	---	---
16	18.7	17.9	18.2	19.2	17.5	18.2	21.1	20.0	20.5	---	---	---
17	21.1	18.7	19.8	19.0	16.5	17.9	23.0	20.4	21.4	---	---	---
18	20.8	19.8	20.4	18.5	16.9	17.6	24.3	21.7	22.6	26.4	24.5	25.3
19	19.8	16.4	17.5	18.5	16.7	17.5	25.4	22.8	23.7	26.4	21.8	25.3
20	16.8	15.1	16.0	17.7	15.7	16.8	24.5	23.0	23.9	22.2	21.4	21.8
21	16.9	14.9	16.0	18.2	17.1	17.4	23.5	20.9	22.3	22.9	21.5	22.1
22	18.3	16.3	17.2	18.7	17.6	18.2	22.3	19.6	21.0	24.6	22.8	23.5
23	19.1	17.6	18.4	19.6	18.1	18.9	23.9	20.8	22.0	25.1	23.9	24.5
24	20.0	18.0	19.0	21.9	19.4	20.2	24.6	21.3	22.6	26.2	25.0	25.5
25	21.1	19.9	20.4	21.8	20.4	21.1	23.7	20.3	22.0	26.7	25.6	26.1
26	20.8	18.4	20.1	22.4	21.2	21.8	25.1	20.2	22.5	27.1	26.1	26.6
27	18.9	17.2	17.9	23.2	21.5	22.3	25.5	20.9	22.8	27.6	26.6	27.1
28	17.6	15.9	16.8	22.5	20.0	21.2	26.0	20.0	22.8	27.5	26.4	26.8
29	18.2	16.9	17.5	25.4	22.2	23.4	24.8	17.6	21.3	27.2	25.9	26.5
30	---	---	---	24.1	22.2	23.2	25.4	20.2	23.0	27.6	26.2	26.9
31	---	---	---	23.4	21.0	22.1	---	---	---	27.4	26.4	26.9
MONTH	21.1	8.9	15.6	25.4	15.4	19.3	26.0	17.0	21.0	---	---	---

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.0	26.0	26.5	29.7	27.2	28.2	---	---	---	---	---	---
2	27.1	25.7	26.4	29.7	27.3	28.3	---	---	---	---	---	---
3	26.6	25.9	26.3	29.8	27.5	28.4	---	---	---	---	---	---
4	26.5	26.0	26.2	29.9	27.0	28.0	---	---	---	---	---	---
5	26.2	25.5	25.8	28.8	26.5	27.5	---	---	---	---	---	---
6	25.9	24.7	25.2	29.2	26.3	27.5	---	---	---	---	---	---
7	25.3	24.0	24.6	29.6	26.6	27.9	---	---	---	---	---	---
8	24.8	24.2	24.5	29.4	26.9	28.0	---	---	---	---	---	---
9	25.7	24.3	24.6	29.2	26.8	27.9	---	---	---	---	---	---
10	24.9	23.5	24.4	29.2	27.0	27.9	---	---	---	---	---	---
11	26.7	24.6	25.0	29.4	26.9	27.8	---	---	---	---	---	---
12	25.8	24.8	25.3	29.8	26.9	28.0	---	---	---	---	---	---
13	26.2	24.8	25.6	29.6	27.1	28.1	---	---	---	25.9	23.4	24.4
14	26.6	25.7	26.1	29.6	27.0	28.1	---	---	---	26.8	23.7	24.8
15	27.2	25.9	26.5	30.0	27.0	28.3	---	---	---	25.5	23.4	24.6
16	27.8	26.3	26.9	30.4	26.8	28.1	---	---	---	25.3	23.8	24.4
17	27.3	26.2	26.8	30.4	26.7	28.0	---	---	---	24.0	22.6	23.1
18	26.7	25.7	26.2	30.3	26.7	28.1	---	---	---	23.4	21.2	22.3
19	27.0	26.1	26.6	---	---	---	---	---	---	24.7	21.0	22.8
20	27.5	26.5	27.0	---	---	---	---	---	---	25.9	22.9	24.1
21	28.2	26.6	27.3	---	---	---	---	---	---	27.4	24.4	25.3
22	28.6	26.9	27.6	---	---	---	---	---	---	27.6	25.4	26.4
23	28.9	26.9	27.8	---	---	---	---	---	---	28.5	26.3	27.1
24	29.2	26.8	27.8	---	---	---	---	---	---	29.5	26.8	27.7
25	28.8	26.9	27.9	---	---	---	---	---	---	---	---	---
26	29.2	27.0	28.0	---	---	---	---	---	---	---	---	---
27	28.7	27.0	27.8	---	---	---	---	---	---	22.5	17.8	20.0
28	28.5	27.0	27.7	---	---	---	---	---	---	22.2	17.6	19.9
29	29.1	26.9	27.8	---	---	---	---	---	---	22.4	17.7	20.1
30	29.5	26.9	28.0	---	---	---	---	---	---	23.5	17.9	20.3
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	29.5	23.5	26.5	---	---	---	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.4	1.9	3.7	---	---	---	---	---	---	5.6	4.3	5.1
2	5.6	1.9	3.5	---	---	---	---	---	---	6.9	4.6	5.5
3	4.4	.3	2.3	---	---	---	---	---	---	5.9	3.4	4.7
4	5.1	1.2	2.9	---	---	---	---	---	---	6.2	3.6	5.3
5	5.8	1.3	3.0	---	---	---	---	---	---	5.7	3.0	4.5
6	7.1	1.2	3.6	---	---	---	---	---	---	4.2	2.7	3.6
7	---	---	---	---	---	---	3.7	2.2	2.8	5.2	3.1	3.9
8	---	---	---	---	---	---	3.5	2.3	2.9	7.3	3.2	5.4
9	---	---	---	---	---	---	9.2	2.2	4.5	5.1	2.0	3.9
10	---	---	---	---	---	---	4.7	2.0	3.4	5.1	3.9	4.5
11	---	---	---	---	---	---	3.3	2.0	2.6	5.9	3.5	4.7
12	---	---	---	---	---	---	---	---	---	6.6	3.7	5.3
13	---	---	---	---	---	---	3.5	2.5	3.0	5.8	2.0	4.3
14	---	---	---	---	---	---	4.7	1.9	3.2	4.7	1.9	3.0
15	---	---	---	---	---	---	5.7	2.6	3.7	5.4	2.2	3.6
16	---	---	---	---	---	---	5.2	2.9	4.1	5.2	1.5	3.2
17	---	---	---	---	---	---	4.9	2.4	3.3	4.7	1.6	3.1
18	---	---	---	---	---	---	5.4	2.8	4.1	4.3	1.6	2.9
19	---	---	---	---	---	---	5.8	3.9	4.8	4.3	.5	2.5
20	---	---	---	---	---	---	5.6	3.3	4.4	3.9	1.2	2.7
21	---	---	---	---	---	---	5.1	3.6	4.0	3.7	1.3	2.7
22	---	---	---	---	---	---	5.5	3.8	4.7	4.1	.7	2.2
23	---	---	---	---	---	---	5.4	3.3	4.6	4.8	1.0	2.7
24	---	---	---	---	---	---	6.4	4.2	5.2	4.4	1.3	2.8
25	---	---	---	---	---	---	6.4	4.2	5.3	4.3	1.5	3.0
26	---	---	---	---	---	---	6.9	3.7	5.5	4.6	2.0	3.8
27	---	---	---	---	---	---	7.5	5.2	6.3	11.9	3.0	6.1
28	---	---	---	---	---	---	6.7	5.1	6.0	6.8	5.4	5.9
29	---	---	---	---	---	---	5.8	4.3	5.2	9.0	6.5	8.2
30	---	---	---	---	---	---	6.7	5.0	5.6	9.6	8.9	9.3
31	---	---	---	---	---	---	5.9	3.4	5.2	9.6	8.4	9.3
MONTH	---	---	---	---	---	---	---	---	---	11.9	.5	4.4

08068275 SPRING CREEK NEAR TOMBALL, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.6	8.6	9.3	4.6	2.7	3.7	4.0	2.1	3.0	---	---	---
2	9.4	9.0	9.2	6.2	2.4	4.7	6.5	2.2	4.2	---	---	---
3	9.0	7.8	8.4	5.6	3.0	4.4	5.2	3.8	4.0	---	---	---
4	8.9	7.6	8.3	4.9	3.7	4.2	4.1	2.9	3.8	---	---	---
5	8.8	7.1	8.1	5.2	3.3	3.9	3.5	3.0	3.2	---	---	---
6	8.8	7.0	8.1	4.5	2.6	3.5	3.1	2.6	2.8	6.0	5.1	5.6
7	9.8	6.6	8.2	6.9	2.5	4.7	3.0	2.1	2.4	5.4	5.1	5.3
8	9.2	6.5	8.1	5.2	2.3	3.5	4.1	1.3	2.3	5.1	4.3	4.8
9	9.0	6.6	8.0	2.9	1.5	2.2	2.1	.7	1.7	4.4	3.5	3.9
10	10.2	7.2	8.7	5.6	1.3	3.0	2.3	1.3	1.7	3.5	2.8	3.2
11	10.9	7.8	9.2	6.5	2.3	3.5	2.4	1.0	1.7	---	---	---
12	11.5	7.5	9.3	3.7	1.5	2.8	4.0	1.4	2.3	---	---	---
13	11.3	5.7	9.6	4.1	2.1	3.0	1.8	.9	1.4	---	---	---
14	11.3	8.1	9.7	4.1	2.0	3.0	2.6	1.6	2.0	---	---	---
15	10.2	4.9	8.7	3.2	1.2	2.1	2.4	1.6	1.9	---	---	---
16	8.6	2.5	6.3	3.5	1.4	2.4	2.3	1.4	1.8	---	---	---
17	7.9	3.5	6.3	8.6	1.6	3.4	2.6	1.2	1.7	---	---	---
18	7.1	1.2	5.1	3.3	.7	2.1	2.5	1.2	1.7	3.9	2.6	3.2
19	6.1	2.0	4.7	5.4	1.3	3.4	2.8	1.1	1.9	8.7	2.4	3.8
20	4.9	1.0	3.9	5.0	1.8	3.2	---	---	---	8.3	5.2	6.2
21	4.6	.2	2.7	4.2	1.7	3.2	---	---	---	5.4	4.8	5.2
22	5.7	1.2	4.0	6.1	1.7	3.3	---	---	---	4.8	4.5	4.7
23	---	---	---	4.5	.5	2.9	---	---	---	5.9	4.7	5.6
24	---	---	---	5.1	.9	2.3	---	---	---	5.7	4.5	5.4
25	5.6	2.2	4.9	4.2	.3	2.2	---	---	---	5.1	4.7	4.9
26	---	---	---	4.2	.7	2.2	---	---	---	4.8	4.3	4.6
27	---	---	---	3.6	.8	2.0	---	---	---	4.3	3.9	4.2
28	---	---	---	---	---	---	---	---	---	4.0	3.7	3.9
29	5.3	3.2	4.5	---	---	---	---	---	---	4.0	3.6	3.8
30	---	---	---	4.4	2.7	3.5	---	---	---	4.4	3.4	3.6
31	---	---	---	5.0	2.8	3.6	---	---	---	3.9	3.3	3.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.8	3.2	3.6	6.7	2.5	4.4	---	---	---	---	---	---
2	3.6	3.1	3.3	6.6	3.0	4.6	---	---	---	---	---	---
3	5.0	3.0	4.4	6.4	3.1	4.6	---	---	---	---	---	---
4	4.8	3.9	4.4	6.2	2.8	4.0	---	---	---	---	---	---
5	3.9	3.4	3.6	5.3	1.9	3.2	---	---	---	---	---	---
6	3.9	3.4	3.6	4.2	1.9	2.9	---	---	---	---	---	---
7	4.0	3.5	3.6	4.3	2.2	3.2	---	---	---	---	---	---
8	3.6	3.1	3.3	4.5	2.4	3.2	---	---	---	---	---	---
9	5.8	2.6	3.1	5.2	2.1	3.4	---	---	---	---	---	---
10	7.7	2.9	3.9	5.6	2.2	3.6	---	---	---	---	---	---
11	6.3	4.7	5.0	5.4	2.0	3.3	---	---	---	---	---	---
12	5.5	4.3	4.9	5.5	1.8	3.3	---	---	---	---	---	---
13	5.5	5.0	5.4	5.1	1.8	3.3	---	---	---	---	---	---
14	5.0	4.5	4.7	4.9	1.7	3.2	---	---	---	---	---	---
15	4.7	4.1	4.4	5.2	1.8	3.3	---	---	---	---	---	---
16	4.1	3.5	3.9	6.5	1.9	3.8	---	---	---	---	---	---
17	7.1	3.2	3.6	6.6	1.7	3.8	---	---	---	---	---	---
18	4.9	3.4	3.8	6.8	1.4	3.7	---	---	---	---	---	---
19	5.7	4.9	5.4	---	---	---	---	---	---	---	---	---
20	5.1	4.5	4.7	---	---	---	---	---	---	---	---	---
21	4.5	4.0	4.3	---	---	---	---	---	---	---	---	---
22	4.2	3.6	3.8	---	---	---	---	---	---	---	---	---
23	3.9	3.1	3.5	---	---	---	---	---	---	---	---	---
24	4.0	2.6	3.3	---	---	---	---	---	---	---	---	---
25	3.9	2.6	3.2	---	---	---	---	---	---	---	---	---
26	4.0	2.5	3.1	---	---	---	---	---	---	---	---	---
27	3.6	2.2	2.9	---	---	---	---	---	---	6.0	3.8	4.8
28	4.6	2.9	3.6	---	---	---	---	---	---	6.8	3.5	4.9
29	5.4	2.8	3.8	---	---	---	---	---	---	6.9	4.4	5.5
30	6.4	2.8	4.1	---	---	---	---	---	---	7.1	4.9	5.8
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.7	2.2	3.9	---	---	---	---	---	---	---	---	---

08068390 BEAR BRANCH AT RESEARCH FOREST BLVD., 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 mi^2.

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

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

REMARKS WATER YEAR 1999.--Records poor. No known regulation or diversion.

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

PEAK DISCHARGES FOR WATER YEAR 1999.--Peak discharges greater than base discharge of 800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	1215	801	12.49	No other peak greater than base discharge.			

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s:

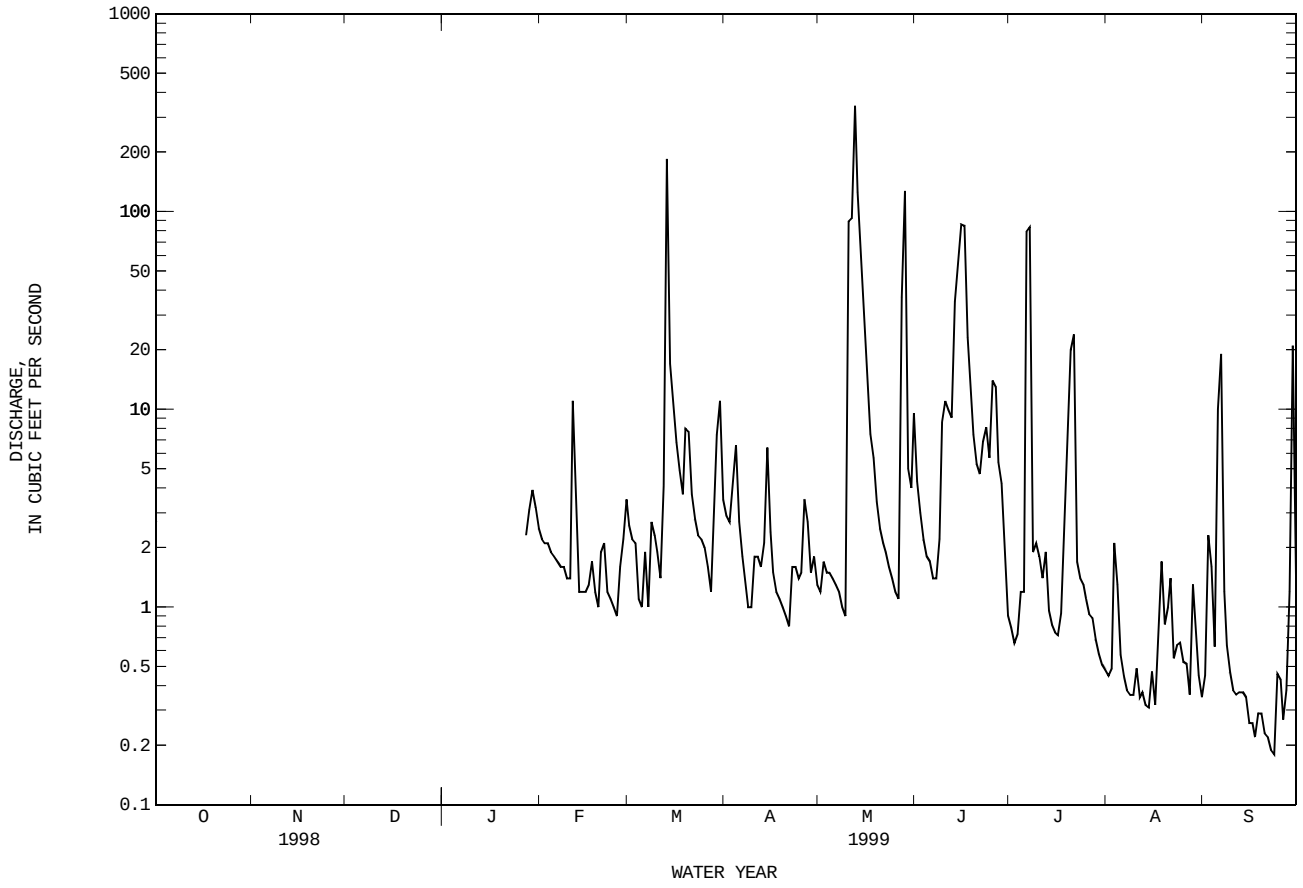
Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	0400	1,050	12.78	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	2.2	2.6	2.9	1.2	4.3	.79	.45	.45
2	---	---	---	---	2.1	2.2	2.7	1.7	3.0	.66	.49	2.3
3	---	---	---	---	2.1	2.1	4.3	1.5	2.2	.73	2.1	1.6
4	---	---	---	---	1.9	e1.1	6.6	1.5	1.8	1.2	1.3	.63
5	---	---	---	---	1.8	e1.0	2.7	1.4	1.7	1.2	.57	10
6	---	---	---	---	1.7	e1.9	e1.8	1.3	1.4	79	.45	19
7	---	---	---	---	1.6	e1.0	e1.4	e1.2	1.4	83	.38	1.2
8	---	---	---	---	1.6	e2.7	e1.0	e1.0	2.2	1.9	.36	.64
9	---	---	---	---	1.4	2.3	e1.0	e.90	8.6	2.1	.36	.47
10	---	---	---	---	1.4	e1.9	1.8	89	11	1.8	.49	.38
11	---	---	---	---	11	e1.4	1.8	92	9.9	1.4	.35	.36
12	---	---	---	---	3.6	4.1	1.6	342	9.1	1.9	.37	.37
13	---	---	---	---	1.2	184	2.1	125	35	.96	.32	.37
14	---	---	---	---	1.2	17	6.4	60	53	.81	.31	.35
15	---	---	---	---	1.2	11	2.4	34	86	.74	.47	.26
16	---	---	---	---	1.3	6.8	1.5	16	85	.72	.32	.26
17	---	---	---	---	1.7	4.9	1.2	7.5	23	.93	.82	.22
18	---	---	---	---	e1.2	3.7	e1.1	5.7	14	1.9	1.7	.29
19	---	---	---	---	e1.0	8.0	e1.0	3.4	7.4	5.3	.82	.29
20	---	---	---	---	e1.9	7.7	e.90	2.5	5.3	20	1.0	.23
21	---	---	---	---	2.1	3.7	e.80	2.1	4.7	24	1.4	.22
22	---	---	---	---	e1.2	2.8	1.6	1.9	6.9	1.7	.55	.19
23	---	---	---	---	e1.1	2.3	1.6	1.6	8.1	1.4	.64	.18
24	---	---	---	---	e1.0	2.2	1.4	1.4	5.7	1.3	.66	.46
25	---	---	---	---	e.90	2.0	1.5	1.2	14	1.1	.53	.43
26	---	---	---	---	e1.6	e1.6	3.5	1.1	13	.92	.52	.27
27	---	---	---	2.3	2.2	e1.2	2.7	37	5.4	.88	.36	.38
28	---	---	---	3.1	3.5	3.2	1.5	127	4.2	.69	1.3	1.2
29	---	---	---	3.9	---	7.4	1.8	5.0	1.8	.58	.76	21
30	---	---	---	3.2	---	11	1.3	4.0	.91	.51	.45	1.4
31	---	---	---	2.5	---	3.5	---	9.6	---	.48	.35	---
TOTAL	---	---	---	---	56.70	308.3	63.90	980.70	430.01	240.60	20.95	65.40
MEAN	---	---	---	---	2.03	9.95	2.13	31.6	14.3	7.76	.68	2.18
MAX	---	---	---	---	11	184	6.6	342	86	83	2.1	21
MIN	---	---	---	---	.90	1.0	.80	.90	.91	.48	.31	.18
AC-FT	---	---	---	---	112	612	127	1950	853	477	42	130

e Estimated

08068390 BEAR BRANCH AT RESEARCH FOREST BLVD., THE WOODLANDS, TX--Continued

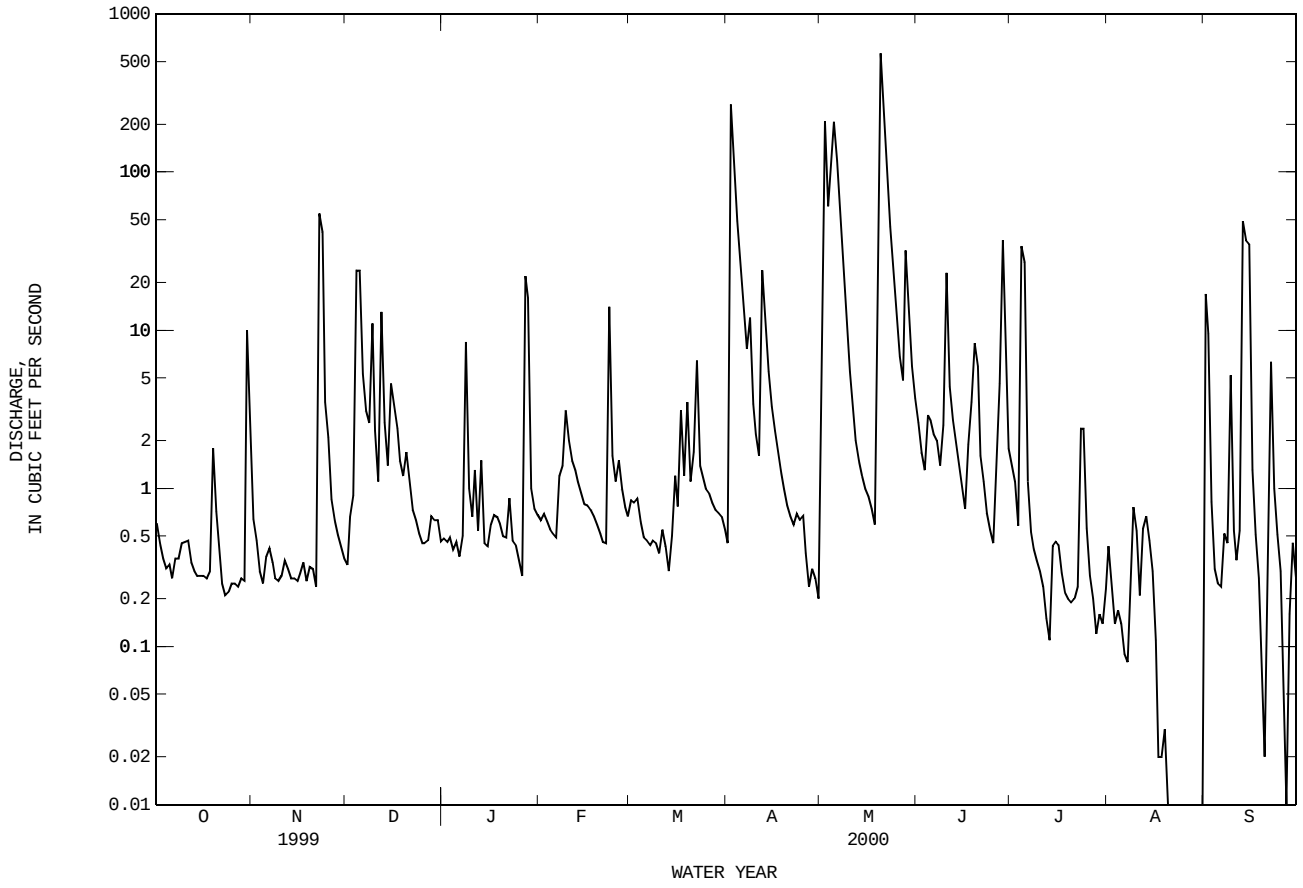


08068390 BEAR BRANCH AT RESEARCH FOREST BLVD., THE WOODLANDS, TX--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.64	.33	.48	.63	.84	.45	15	2.6	1.4	.43	17
2	.45	.47	.66	.46	.69	.81	267	209	1.7	1.1	.25	9.5
3	.36	.30	.90	.49	.62	.86	104	61	1.3	.58	.14	.82
4	.31	.25	24	.41	.55	.62	49	109	2.9	34	.17	.31
5	.33	.37	24	.46	.52	.49	28	207	2.7	27	.14	.25
6	.27	.42	5.3	.37	.49	.47	15	118	2.2	1.1	.09	.24
7	.36	.34	3.1	.50	1.2	.44	7.6	48	2.0	.53	.08	.52
8	.36	.27	2.6	8.4	1.4	.47	12	24	1.4	.42	.31	.45
9	.45	.26	11	1.0	3.1	.45	3.4	12	2.5	.35	.76	5.2
10	.46	.28	2.3	.66	2.0	.39	2.2	5.5	23	.30	.54	.54
11	.47	.35	1.1	1.3	1.5	.55	1.6	3.1	4.4	.24	.21	.35
12	.34	.31	13	.54	1.3	.43	24	2.0	2.7	.15	.56	.54
13	.30	.27	2.6	1.5	1.1	.30	12	1.5	2.0	.11	.67	49
14	.28	.27	1.4	.45	.94	.50	5.5	1.2	1.4	.43	.47	37
15	.28	.26	4.6	.43	.80	1.2	3.3	1.0	1.0	.46	.30	35
16	.28	.29	3.3	.59	.78	.77	2.3	.89	.74	.44	.11	1.3
17	.27	.34	2.4	.68	.73	3.1	1.7	.75	1.9	.29	.02	.51
18	.30	.26	1.5	.66	.67	1.2	1.3	.59	3.5	.22	.02	.27
19	1.8	.32	1.2	.60	.59	3.5	1.0	15	8.3	.20	.03	.11
20	.71	.31	1.7	.50	.52	1.1	.78	565	5.9	.19	.00	.02
21	.39	.24	1.1	.49	.46	1.7	.67	282	1.6	.20	.01	.14
22	.25	55	.73	.87	.45	6.4	.59	114	1.1	.24	.01	6.3
23	.21	42	.63	.47	14	1.4	.69	45	.70	2.4	.00	1.0
24	.22	3.5	.52	.44	1.6	1.2	.63	25	.55	2.4	.00	.51
25	.25	2.1	.45	.35	1.1	1.0	.67	13	.45	.56	.00	.30
26	.25	.85	.45	.28	1.5	.93	.39	6.8	1.6	.28	.00	.04
27	.24	.63	.47	22	1.0	.81	.24	4.8	4.6	.20	.00	.01
28	.27	.51	.67	16	.76	.73	.31	32	37	.12	.00	.16
29	.26	.43	.63	1.0	.67	.70	.27	13	5.1	.16	.00	.45
30	10	.36	.63	.75	---	.66	.20	5.9	1.8	.14	.00	.27
31	2.6	---	.46	.68	---	.55	---	3.7	---	.23	.00	---
TOTAL	23.92	112.20	113.73	63.81	41.67	34.57	546.79	1944.73	128.64	76.44	5.32	168.11
MEAN	.77	3.74	3.67	2.06	1.44	1.12	18.2	62.7	4.29	2.47	.17	5.60
MAX	10	55	24	22	14	6.4	267	565	37	34	.76	49
MIN	.21	.24	.33	.28	.45	.30	.20	.59	.45	.11	.00	.01
AC-FT	47	223	226	127	83	69	1080	3860	255	152	11	333

08068390 BEAR BRANCH AT RESEARCH FOREST BLVD., THE WOODLANDS, TX--Continued



08068400 PANTHER BRANCH AT GOSLING ROAD, THE WOODLANDS, TX

LOCATION.--Lat 30°11′28", long 95°28′53", 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Apr 1972 to Sep 1976 (daily mean discharges). Apr 1980 to Sep 1988 (annual maximum). Jan 1999 to current year (daily mean discharge). From 1974 to 1988, Published as “Panther Branch near Conroe”.

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

REMARKS WATER YEAR 1999.--Records poor. No known regulation.

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

PEAK DISCHARGES FOR WATER YEAR 1999.--Peak discharges greater than base discharge of 800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	1415	1,320	9.42	Jun 13	2330	859	8.85

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0745	1,060	9.36	May 20	0430	1,320	9.59

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	3.1	3.5	5.7	3.6	7.2	3.8	3.3	3.7
2	---	---	---	---	3.0	2.9	5.4	3.4	5.7	3.8	3.5	8.0
3	---	---	---	---	3.0	2.8	10	2.8	4.8	3.7	4.8	8.7
4	---	---	---	---	3.0	2.1	16	2.7	4.3	4.5	5.4	4.0
5	---	---	---	---	2.8	2.2	5.8	2.6	4.1	4.9	3.8	18
6	---	---	---	---	3.0	2.7	4.2	2.9	3.8	93	3.5	50
7	---	---	---	---	2.9	1.9	3.7	4.0	3.8	166	3.5	5.0
8	---	---	---	---	2.9	3.4	3.5	3.6	8.0	6.3	3.6	3.5
9	---	---	---	---	3.0	3.8	3.3	3.6	22	4.6	3.7	3.1
10	---	---	---	---	2.9	2.4	3.4	150	24	5.9	3.7	2.9
11	---	---	---	---	23	1.8	3.4	168	26	5.3	3.6	3.0
12	---	---	---	---	9.5	8.0	3.2	571	34	5.8	3.6	3.2
13	---	---	---	---	2.6	203	3.3	229	164	4.0	3.6	3.2
14	---	---	---	---	2.5	35	12	98	301	3.8	3.6	3.0
15	---	---	---	---	2.6	18	4.4	57	121	3.6	4.1	2.9
16	---	---	---	---	2.8	9.5	3.2	29	136	3.7	3.9	2.9
17	---	---	---	---	3.9	7.5	e2.9	12	47	4.0	3.9	2.9
18	---	---	---	---	2.7	6.7	e2.7	9.3	28	5.5	6.1	2.9
19	---	---	---	---	2.4	16	e2.6	6.2	11	18	4.1	3.0
20	---	---	---	---	2.9	15	e2.5	5.3	8.9	34	4.3	3.0
21	---	---	---	---	3.4	6.9	e2.5	4.7	8.5	46	5.6	3.0
22	---	---	---	---	2.3	5.8	e3.0	4.3	15	5.0	4.1	2.9
23	---	---	---	---	2.1	5.5	e2.7	3.9	23	4.3	4.2	2.9
24	---	---	---	---	2.1	5.5	e2.4	3.8	12	4.3	4.0	3.0
25	---	---	---	---	2.2	5.4	e2.3	3.2	38	3.9	3.8	3.3
26	---	---	---	---	2.7	5.0	e4.9	3.7	37	3.7	3.8	3.2
27	---	---	---	2.0	3.9	4.8	e4.0	24	12	3.7	3.7	3.3
28	---	---	---	5.4	5.1	6.6	e2.7	166	8.7	3.3	4.9	4.4
29	---	---	---	9.7	---	15	e2.8	10	5.8	3.2	4.2	48
30	---	---	---	6.5	---	26	e3.1	6.9	4.0	3.2	3.7	5.8
31	---	---	---	3.7	---	6.5	---	21	---	3.2	3.5	---
TOTAL	---	---	---	---	108.3	441.2	131.6	1615.5	1128.6	468.0	125.1	216.7
MEAN	---	---	---	---	3.87	14.2	4.39	52.1	37.6	15.1	4.04	7.22
MAX	---	---	---	---	23	203	16	571	301	166	6.1	50
MIN	---	---	---	---	2.1	1.8	2.3	2.6	3.8	3.2	3.3	2.9
AC-FT	---	---	---	---	215	875	261	3200	2240	928	248	430

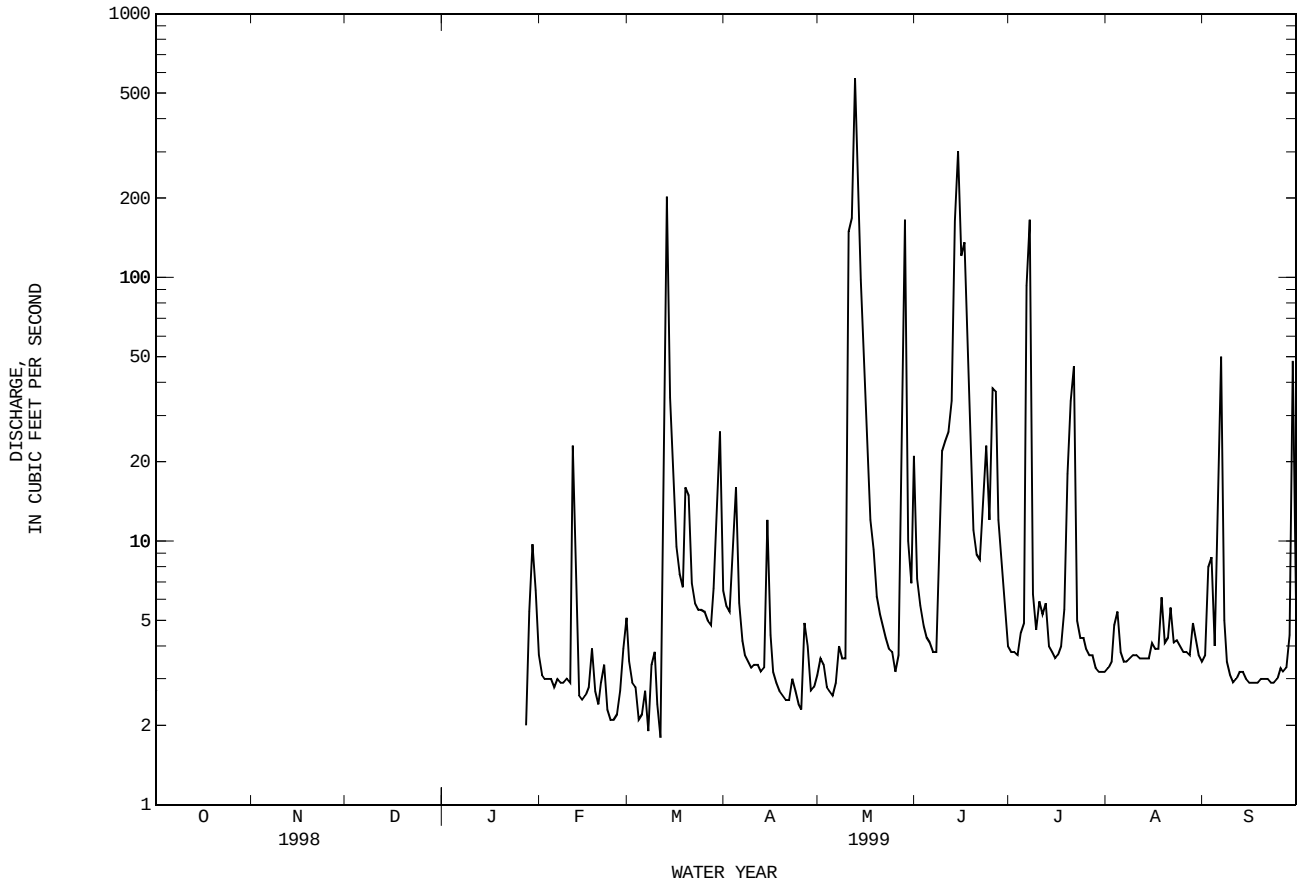
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999h, BY WATER YEAR (WY)

MEAN	9.55	48.9	34.5	10.4	15.4	10.3	28.8	26.9	21.9	7.26	3.09	6.71
MAX	18.1	96.1	62.6	19.9	42.6	15.4	80.5	52.1	37.6	15.1	4.04	13.4
(WY)	1975	1975	1975	1975	1975	1975	1975	1999	1999	1999	1999	1974
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	1975	1976	1975	1975

08068400 PANTHER BRANCH AT GOSLING ROAD, THE WOODLANDS, TX--Continued

SUMMARY STATISTICS	WATER YEARS 1974 - 1999h	
ANNUAL MEAN	30.8	
HIGHEST ANNUAL MEAN	30.8	1975
LOWEST ANNUAL MEAN	30.8	1975
HIGHEST DAILY MEAN	731	Apr 14 1975
LOWEST DAILY MEAN	.00	Aug 1 1974
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 17 1974
INSTANTANEOUS PEAK FLOW	4420	Nov 24 1985
INSTANTANEOUS PEAK STAGE	12.75	Nov 24 1985
ANNUAL RUNOFF (AC-FT)	22300	
10 PERCENT EXCEEDS	30	
50 PERCENT EXCEEDS	2.1	
90 PERCENT EXCEEDS	.03	

e Estimated
h see PERIOD OF RECORD paragraph.



08068400 PANTHER BRANCH AT GOSLING ROAD, THE WOODLANDS, TX--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.7	3.0	4.1	4.1	5.1	5.3	37	6.3	4.5	3.7	15
2	3.2	3.2	4.0	4.2	4.1	5.1	525	420	5.5	4.4	3.5	19
3	3.2	3.2	4.9	4.3	4.1	5.4	302	188	5.0	3.9	3.4	3.7
4	3.2	3.0	62	4.1	4.2	4.9	134	207	7.6	42	3.5	3.1
5	3.0	3.1	79	4.1	4.7	4.9	59	433	6.9	99	3.5	3.2
6	2.9	3.2	16	4.3	4.6	5.0	31	230	5.7	4.7	3.5	2.8
7	3.0	3.2	7.8	4.1	5.8	4.9	16	104	5.2	3.9	3.6	2.9
8	3.0	3.1	6.7	33	5.6	4.9	29	46	4.7	3.7	3.7	3.0
9	3.0	3.0	35	5.8	8.5	4.8	8.6	21	4.9	3.8	4.0	13
10	3.2	3.0	11	3.9	6.7	4.9	7.2	9.7	40	3.8	3.4	3.6
11	3.2	3.1	4.8	4.8	6.3	4.9	6.1	6.8	8.2	3.8	3.7	3.2
12	3.2	3.1	42	4.1	5.8	4.7	65	6.0	6.0	3.5	4.0	3.1
13	3.0	3.0	14	5.2	5.5	4.6	33	5.3	5.3	3.4	3.8	41
14	3.0	3.2	5.8	3.8	5.4	4.7	13	5.1	4.8	3.5	3.4	43
15	3.0	3.2	11	3.8	5.4	6.1	8.4	5.1	4.3	3.6	3.3	44
16	3.1	3.2	8.7	4.0	5.3	5.3	7.1	4.9	4.1	3.5	3.3	4.5
17	3.2	3.2	7.3	4.2	5.3	13	6.5	4.8	5.9	3.6	3.4	3.3
18	3.3	3.4	6.1	3.6	5.2	6.1	6.0	4.4	7.3	3.6	3.2	3.1
19	5.8	3.3	5.5	4.0	4.9	11	5.5	18	18	3.5	3.2	3.2
20	3.9	3.4	6.8	3.9	4.8	6.4	5.2	729	13	3.5	3.6	2.9
21	3.3	3.8	6.7	3.8	4.9	7.0	5.1	346	4.9	3.5	3.5	3.1
22	3.3	84	4.8	4.5	4.9	23	4.8	215	4.3	3.5	3.3	16
23	3.1	110	4.5	4.1	46	6.9	5.2	99	3.9	6.0	2.8	4.1
24	3.1	15	4.5	4.1	7.1	6.1	5.4	45	3.8	7.7	3.1	3.1
25	3.3	7.7	4.1	3.9	5.5	6.0	5.0	23	3.7	3.9	3.1	2.7
26	3.1	4.5	4.0	3.8	7.2	6.0	4.6	11	4.1	3.4	2.8	2.4
27	3.1	3.9	4.2	42	5.7	5.9	4.5	8.5	6.9	3.3	2.9	2.2
28	3.2	4.0	4.5	52	5.3	5.6	4.6	103	106	3.3	3.3	2.1
29	3.1	3.9	4.2	5.6	4.9	5.3	4.5	30	9.4	3.3	2.6	2.2
30	28	3.8	4.2	4.8	---	5.7	4.6	11	5.2	3.4	2.9	2.1
31	10	---	4.3	4.4	---	5.4	---	7.4	---	3.7	2.7	---
TOTAL	132.5	304.4	391.4	246.3	197.8	199.6	1321.2	3384.0	320.9	254.2	103.7	260.6
MEAN	4.27	10.1	12.6	7.95	6.82	6.44	44.0	109	10.7	8.20	3.35	8.69
MAX	28	110	79	52	46	23	525	729	106	99	4.0	44
MIN	2.9	3.0	3.0	3.6	4.1	4.6	4.5	4.4	3.7	3.3	2.6	2.1
AC-FT	263	604	776	489	392	396	2620	6710	637	504	206	517

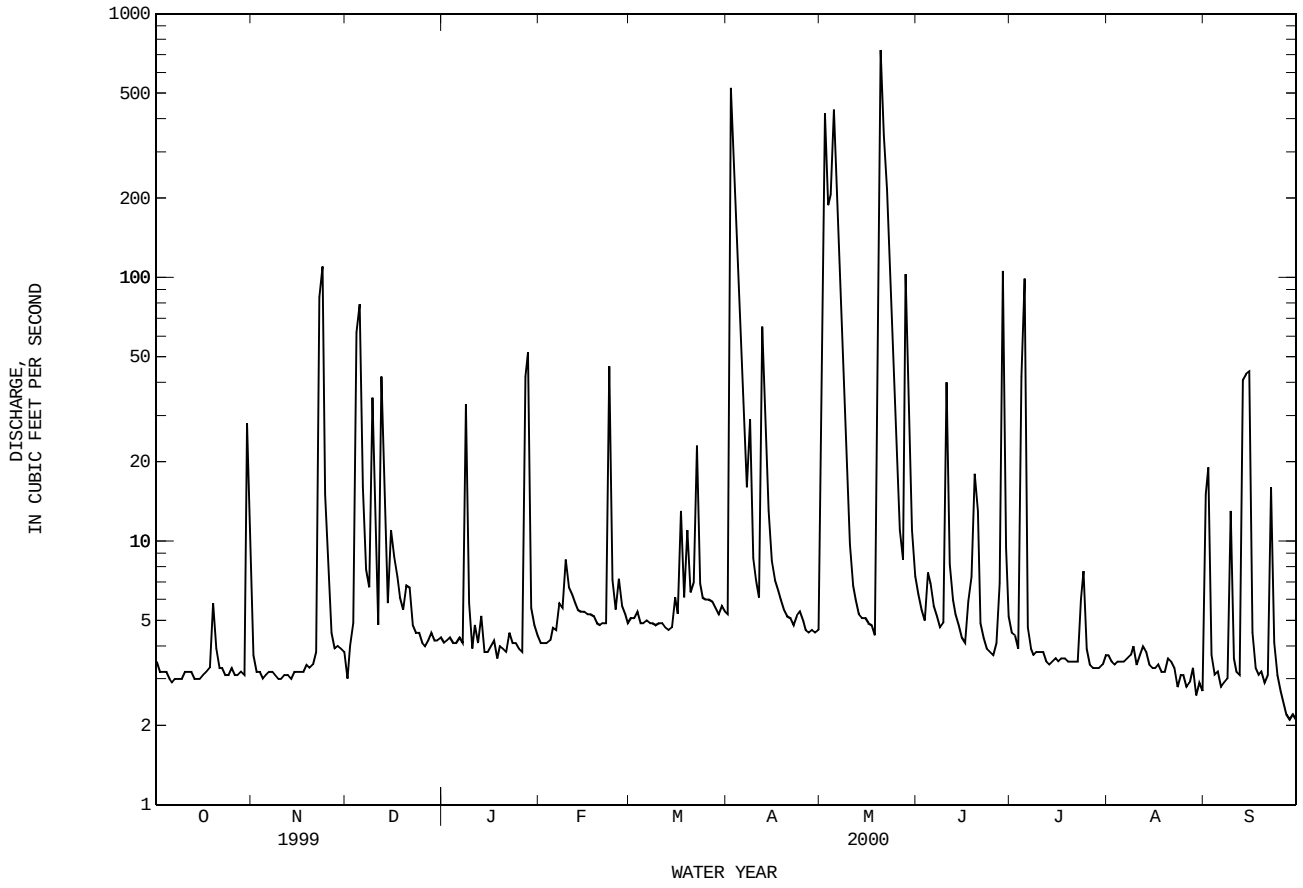
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000h, BY WATER YEAR (WY)

MEAN	7.79	36.0	27.2	9.57	13.2	9.35	32.6	47.5	19.1	7.49	3.15	7.11
MAX	18.1	96.1	62.6	19.9	42.6	15.4	80.5	109	37.6	15.1	4.04	13.4
(WY)	1975	1975	1975	1975	1975	1975	1975	2000	1999	1999	1999	1974
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	1975	1976	1975	1975

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000h	
ANNUAL TOTAL	7116.6			
ANNUAL MEAN	19.4		25.1	
HIGHEST ANNUAL MEAN			30.8	1975
LOWEST ANNUAL MEAN			19.4	2000
HIGHEST DAILY MEAN	729	May 20	731	Apr 14 1975
LOWEST DAILY MEAN	2.1	Sep 28	.00	Aug 1 1974
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 24	.00	Aug 17 1974
INSTANTANEOUS PEAK FLOW	1320	May 20	4420	Nov 24 1985
INSTANTANEOUS PEAK STAGE	9.59	May 20	12.75	Nov 24 1985
ANNUAL RUNOFF (AC-FT)	14120		18190	
10 PERCENT EXCEEDS	33		30	
50 PERCENT EXCEEDS	4.6		3.4	
90 PERCENT EXCEEDS	3.1		.05	

h see PERIOD OF RECORD paragraph.

08068400 PANTHER BRANCH AT GOSLING ROAD, THE WOODLANDS, TX--Continued



08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

WATER-QUALITY RECORDS

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.--Interuption in the record was caused by malfunctions of the instrumentation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,550 microsiemens, May 4, 1999; minimum, 73 microsiemens, Mar 13, Jun 13, 14, 1999.
pH: Maximum, 9.2 units, Sep 1, 2000; minimum, 6.4 units, Jun 13-14, 1999.
WATER TEMPERATURES: Maximum, 32.1°C, Jul 28, 1999; minimum, 7.6°C, Jan 28, 2000.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L, Jan 27, 2000; minimum, 0.0 mg/L, Aug 28, 29, Sep 12, 2000.

EXTREMES FOR WATER YEAR 1999.--
SPECIFIC CONDUCTANCE: Maximum, 1,550 microsiemens, May 4; minimum, 73 microsiemens, Mar 13, Jun 13, 14.
pH: Maximum, 8.2 units, May 8; minimum, 6.4 units, Jun 13, 14.
WATER TEMPERATURE: Maximum, 32.1°C, Jul 28; minimum, 11.2°C, Mar 15.
DISSOLVED OXYGEN: Maximum, 9.9 mg/L, Aug 2, 6; minimum, 0.6 mg/L, Aug 29, Sep 27.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,270 microsiemens, Mar 4; minimum, 86 microsiemens, May 21.
pH: Maximum, 9.2 units, Sep 1; minimum, 6.6 units, May 21, 22.
WATER TEMPERATURE: Maximum, 31.5°C, Jul 19; minimum, 7.6°C, Jan 28.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L, Jan 27; minimum, 0.0 mg/L, Aug 28, 29, Sep 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
MAR										
02...	1259	2.2	306	6.8	20.1	21	4.9	60	1.8	88
MAY										
06...	1150	--	796	7.8	23.6	14	4.5	54	--	170
JUN										
04...	1126	4.3	385	7.7	28.0	15	4.8	62	4.4	140
JUL										
13...	1151	--	559	7.7	27.6	5.5	4.2	50	1.7	2100
AUG										
17...	1328	4.4	846	7.6	29.6	2.0	6.8	82	1.6	120
SEP										
09...	1028	--	794	7.2	27.8	11	3.0	36	2.0	250

DATE	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER-ABLE (MG/L) (00540)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
MAR										
02...	0	8	7	35	24	7	17	--	<.010	.077
MAY										
06...	0	188	154	120	12	<1	--	2.75	.138	2.88
JUN										
04...	0	105	86	39	6	5	1	3.67	.029	3.70
JUL										
13...	0	19	15	55	9	4	5	6.95	.059	7.01
AUG										
17...	0	27	22	79	4	1	3	11.5	.134	11.7
SEP										
09...	0	19	16	69	8	3	5	12.8	.116	12.9

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
MAR										
02...	.049	.84	.72	.63	.68	.77	.066	.024	.014	.04
MAY										
06...	.255	4.0	.83	.68	.93	1.1	.850	.713	.684	2.1
JUN										
04...	.096	4.6	.77	.81	.90	.86	.892	.847	.856	2.6
JUL										
13...	.066	8.2	1.2	.93	.99	1.2	<.050	1.50	1.49	4.6
AUG										
17...	.045	13	1.0	.91	.95	1.1	3.11	2.97	2.69	8.2
SEP										
09...	.082	14	1.3	1.2	1.2	1.3	4.27	2.91	2.55	7.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
MAR									
02...	30	.18	<1	<1.0	1	--	--	<1.0	<10
MAY									
06...	11	--	<1	<1.0	5	390	<1	<1.0	<40
JUN									
04...	11	.13	<1	<1.0	4	660	<1	<1.0	<40
JUL									
13...	8	--	<1	<1.0	9	310	<1	<1.0	E25
AUG									
17...	3	.04	<1	<1.0	13	150	<1	<1.0	E25
SEP									
09...	--	--	<1	<1.0	11	380	1	<1.0	E35

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	300	295	297	849	410	737
2	---	---	---	---	---	---	322	297	307	877	624	812
3	---	---	---	---	---	---	401	309	334	825	634	766
4	---	---	---	520	362	448	350	325	330	1550	605	856
5	---	---	---	373	357	363	369	335	353	1030	886	977
6	---	---	---	549	371	406	370	365	366	1020	552	813
7	---	---	---	559	521	548	379	369	376	884	593	760
8	---	---	---	576	308	491	409	377	397	894	669	786
9	---	---	---	608	433	460	425	408	418	916	808	887
10	---	---	---	565	425	486	467	423	443	---	---	---
11	---	---	---	565	441	500	467	444	455	---	---	---
12	---	---	---	444	298	399	454	406	424	303	102	162
13	---	---	---	388	73	176	500	408	435	191	135	173
14	---	---	---	227	202	217	496	237	408	193	174	187
15	---	---	---	241	226	235	343	324	336	229	161	199
16	---	---	---	252	241	246	332	297	309	331	190	247
17	---	---	---	267	252	260	312	298	306	410	229	321
18	---	---	---	285	265	276	325	310	316	446	308	382
19	---	---	---	401	284	311	336	325	332	509	310	424
20	---	---	---	308	267	298	353	336	344	585	350	490
21	---	---	---	301	287	294	386	353	372	649	422	566
22	---	---	---	299	282	288	458	380	401	736	457	625
23	---	---	---	321	297	304	466	429	446	742	494	657
24	---	---	---	335	321	327	484	447	475	772	557	707
25	---	---	---	355	335	343	486	469	479	708	447	615
26	---	---	---	377	355	368	568	259	466	771	560	685
27	---	---	---	394	375	381	484	459	469	805	126	647
28	---	---	---	571	339	437	474	453	466	247	136	176
29	---	---	---	476	277	409	469	429	444	468	247	339
30	---	---	---	297	276	288	480	418	470	542	286	419
31	---	---	---	299	292	294	---	---	---	399	211	310
MONTH	---	---	---	---	---	---	568	237	392	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	413	239	349	867	607	768	860	756	830	884	782	845
2	478	255	391	844	691	797	855	755	834	827	505	699
3	539	303	455	836	678	787	849	454	774	731	468	599
4	621	359	516	815	630	731	741	529	636	835	658	760
5	692	364	561	819	611	702	794	670	744	845	225	721
6	736	479	643	834	89	636	838	694	789	608	222	360
7	753	555	702	331	132	203	875	751	831	814	494	665
8	805	367	654	595	331	456	921	773	861	893	733	827
9	598	314	410	702	405	622	921	790	878	849	716	814
10	390	219	300	686	396	510	875	778	836	853	729	824
11	436	243	313	736	472	577	893	780	846	907	768	855
12	435	229	270	655	405	541	885	765	845	907	757	854
13	318	73	216	745	560	684	896	763	849	880	750	840
14	187	73	121	862	630	775	898	780	857	881	768	847
15	214	132	175	863	696	815	892	662	814	887	796	861
16	236	155	192	828	702	803	892	792	859	927	826	895
17	254	184	228	836	608	790	920	801	878	946	839	908
18	297	190	255	771	468	613	812	502	666	937	807	885
19	356	155	241	794	379	557	832	636	762	954	814	902
20	401	286	356	576	211	351	889	695	830	955	856	909
21	403	277	364	432	195	285	808	567	672	938	849	905
22	422	278	355	622	387	521	856	668	786	945	856	912
23	505	283	356	660	442	596	899	738	835	987	912	953
24	419	268	354	702	450	608	936	720	847	953	857	924
25	415	284	336	766	496	681	862	728	820	946	821	883
26	369	254	312	781	532	720	853	732	820	958	855	926
27	423	248	346	860	569	757	865	761	831	962	866	923
28	444	263	382	925	735	858	893	605	783	955	823	884
29	686	364	529	866	737	835	879	655	771	850	320	473
30	788	589	717	861	758	838	898	776	858	753	496	645
31	---	---	---	866	754	842	911	789	868	---	---	---
MONTH	805	73	380	925	89	654	936	454	810	987	222	810

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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

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

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	19.8	18.5	19.1	26.4	23.5	25.0
2	---	---	---	---	---	---	21.5	19.8	20.6	25.5	23.4	24.4
3	---	---	---	---	---	---	22.2	21.1	21.6	25.0	24.1	24.5
4	---	---	---	20.1	17.3	18.0	21.5	20.5	21.0	25.5	24.2	24.6
5	---	---	---	18.4	17.6	17.8	22.8	21.3	21.9	27.5	25.0	25.9
6	---	---	---	23.8	18.4	19.9	22.7	19.6	21.2	26.0	23.5	24.8
7	---	---	---	23.6	18.2	20.5	24.5	22.3	23.2	26.2	22.4	24.3
8	---	---	---	23.1	17.8	19.0	25.4	23.4	24.2	27.0	22.4	24.4
9	---	---	---	20.7	18.3	19.5	26.3	24.0	25.0	26.6	24.8	25.6
10	---	---	---	23.9	18.9	21.2	27.0	24.6	25.7	26.1	21.5	23.1
11	---	---	---	23.4	22.0	22.5	26.4	24.9	25.7	24.9	21.3	22.7
12	---	---	---	22.1	19.4	20.3	25.4	23.3	24.5	24.9	20.3	22.0
13	---	---	---	20.5	13.8	15.8	24.6	23.2	23.6	25.5	22.1	23.6
14	---	---	---	14.1	12.4	13.2	25.6	22.2	24.0	27.2	23.9	25.4
15	---	---	---	16.6	11.2	13.8	24.6	21.0	22.2	27.6	24.6	26.1
16	---	---	---	18.0	13.9	16.0	21.7	18.2	19.7	28.3	25.4	26.9
17	---	---	---	19.8	16.9	18.2	19.7	16.5	17.9	28.8	26.3	27.4
18	---	---	---	20.7	18.8	19.8	20.7	17.1	18.6	27.5	24.9	26.2
19	---	---	---	20.8	19.4	20.2	22.7	19.0	20.5	27.9	24.5	26.1
20	---	---	---	21.1	18.2	19.7	24.5	21.3	22.6	27.9	25.3	26.7
21	---	---	---	20.3	17.1	18.7	25.3	22.7	23.8	28.6	25.7	27.1
22	---	---	---	20.2	17.4	18.9	26.2	23.5	24.8	28.8	26.1	27.3
23	---	---	---	20.1	18.8	19.4	28.5	25.3	26.6	28.8	26.1	27.3
24	---	---	---	21.7	19.8	20.5	28.0	26.3	27.1	29.0	26.4	27.5
25	---	---	---	21.6	19.9	20.8	27.4	26.1	26.8	29.3	26.4	27.7
26	---	---	---	19.9	18.0	18.8	26.6	23.6	25.4	28.8	26.3	27.4
27	---	---	---	19.0	17.6	18.2	25.3	22.0	23.6	28.9	23.8	26.8
28	---	---	---	19.9	17.8	18.7	27.4	24.1	25.4	27.1	23.6	25.0
29	---	---	---	19.7	18.1	19.0	27.6	24.9	26.2	27.5	25.5	26.5
30	---	---	---	18.1	17.4	17.8	27.3	25.1	26.2	28.2	25.4	26.7
31	---	---	---	19.1	17.6	18.2	---	---	---	29.1	25.2	27.0
MONTH	---	---	---	---	---	---	28.5	16.5	23.3	29.3	20.3	25.7

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.5	27.6	28.9	30.9	28.3	29.4	31.4	28.4	29.8	29.3	27.5	28.4
2	30.4	27.7	29.0	30.7	28.3	29.3	31.6	28.6	29.9	28.9	27.2	28.2
3	29.8	27.5	28.7	30.7	28.1	29.2	31.1	28.7	29.9	30.0	27.5	28.7
4	30.2	28.0	29.0	30.2	28.1	29.1	31.5	29.0	30.1	30.9	28.1	29.3
5	30.1	28.2	29.1	29.7	28.3	28.9	31.7	28.5	29.9	30.9	27.3	29.1
6	29.9	27.7	28.8	30.0	25.0	27.9	31.5	28.6	29.9	30.2	26.8	28.3
7	29.9	27.1	28.5	30.9	25.5	27.7	31.3	28.4	29.7	30.5	28.3	29.5
8	28.8	27.3	28.2	30.6	28.3	29.5	31.4	28.7	29.9	31.3	28.7	29.7
9	29.1	26.7	27.8	29.8	28.3	29.0	31.7	29.0	30.1	30.7	27.9	29.2
10	29.5	27.1	28.3	30.1	28.0	29.0	31.8	28.9	30.1	30.4	27.5	28.8
11	29.8	27.7	28.7	30.6	28.2	29.1	31.8	29.0	30.2	30.4	27.1	28.5
12	28.6	27.2	27.8	30.1	28.5	29.3	31.4	28.9	30.0	30.6	27.5	28.8
13	27.4	24.4	26.3	29.1	27.9	28.5	31.9	29.1	30.2	30.3	27.4	28.7
14	28.3	24.3	26.1	30.4	27.2	28.6	31.6	29.0	30.1	29.6	27.1	28.3
15	28.0	26.2	27.1	31.0	27.6	29.1	31.5	28.9	30.0	29.2	26.1	27.6
16	29.2	25.4	27.1	30.2	27.8	28.9	31.3	28.0	29.5	29.0	25.2	26.9
17	29.5	26.8	28.2	29.5	27.8	28.6	31.4	28.3	29.6	28.8	25.4	27.0
18	29.7	26.5	28.2	29.9	28.0	28.8	31.1	28.4	29.7	28.8	25.3	26.8
19	29.9	26.7	28.2	30.7	27.7	29.0	31.4	29.2	30.2	28.8	25.1	26.8
20	29.4	27.2	28.2	30.5	28.0	28.9	31.6	28.9	30.0	29.4	25.6	27.4
21	29.5	27.3	28.3	28.7	27.6	28.1	30.9	28.6	29.7	28.4	26.4	27.3
22	28.7	27.5	28.0	30.3	27.0	28.6	31.0	28.7	29.7	27.5	24.4	26.0
23	28.9	27.2	28.0	31.1	28.8	29.8	30.4	28.8	29.5	27.4	23.3	25.3
24	29.9	27.6	28.6	30.8	28.8	29.8	30.3	28.6	29.5	27.7	23.6	25.6
25	29.3	27.6	28.2	30.9	29.2	30.0	31.4	28.6	29.8	27.8	24.9	26.0
26	30.0	27.4	28.5	31.1	28.6	29.7	31.8	28.9	30.2	28.6	25.7	26.9
27	30.9	28.7	29.6	31.5	28.6	30.0	31.6	29.1	30.1	28.9	26.2	27.5
28	31.7	29.1	30.2	32.1	29.0	30.3	30.8	28.3	29.6	28.9	26.3	27.5
29	31.0	29.0	29.9	31.9	28.8	30.2	30.9	28.9	29.8	28.0	22.8	24.6
30	31.1	28.4	29.5	31.7	28.7	30.0	30.7	28.1	29.3	25.6	21.3	23.6
31	---	---	---	31.6	28.4	29.8	30.5	27.8	28.9	---	---	---
MONTH	31.7	24.3	28.4	32.1	25.0	29.2	31.9	27.8	29.8	31.3	21.3	27.5

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.0	6.4	6.7	7.4	3.2	4.9
2	---	---	---	---	---	---	6.6	5.7	6.1	6.1	3.2	4.6
3	---	---	---	---	---	---	6.4	4.8	5.6	4.7	2.1	3.5
4	---	---	---	8.3	4.6	6.5	6.1	5.2	5.5	4.9	1.6	3.1
5	---	---	---	7.8	6.0	6.6	5.3	4.7	5.0	7.2	3.1	4.8
6	---	---	---	7.1	4.0	5.5	5.9	4.8	5.2	7.6	2.4	4.7
7	---	---	---	5.2	3.3	4.2	5.0	3.6	4.3	9.1	3.9	6.0
8	---	---	---	7.1	3.4	5.0	4.9	2.7	3.7	9.2	4.0	6.1
9	---	---	---	6.2	4.4	5.1	5.2	2.5	3.8	7.0	3.3	4.8
10	---	---	---	6.2	2.8	4.3	5.5	2.2	3.7	---	---	---
11	---	---	---	4.7	2.4	3.6	5.9	2.9	4.3	---	---	---
12	---	---	---	5.2	3.5	4.3	6.6	3.1	4.5	7.0	4.4	5.6
13	---	---	---	8.4	4.4	7.1	5.3	3.0	4.0	5.2	4.1	4.7
14	---	---	---	8.8	7.1	8.1	7.0	4.3	5.8	4.9	3.9	4.3
15	---	---	---	9.1	7.5	8.5	7.1	4.9	5.8	4.8	3.8	4.2
16	---	---	---	8.1	7.0	7.5	8.4	6.0	7.1	4.5	3.6	4.1
17	---	---	---	7.2	6.4	6.8	9.6	7.6	8.3	4.9	3.8	4.3
18	---	---	---	6.5	5.9	6.2	9.2	7.4	8.1	5.0	3.9	4.6
19	---	---	---	6.0	5.2	5.8	8.0	6.2	7.0	5.5	4.3	4.8
20	---	---	---	7.0	4.9	5.9	7.1	5.2	6.0	5.6	4.2	4.7
21	---	---	---	6.5	5.2	5.8	7.0	4.5	5.5	6.0	3.8	4.7
22	---	---	---	6.7	5.1	5.8	5.8	3.6	4.7	6.2	3.5	4.4
23	---	---	---	5.8	4.6	5.3	5.6	3.5	4.3	6.4	2.8	4.1
24	---	---	---	5.8	4.7	5.2	4.7	2.1	3.4	5.6	1.9	3.5
25	---	---	---	5.4	4.5	4.9	4.4	1.9	3.1	4.6	1.6	2.9
26	---	---	---	6.9	4.6	5.4	5.2	2.4	3.5	7.4	3.7	5.2
27	---	---	---	7.5	4.9	6.0	6.2	3.8	4.7	8.0	4.2	5.4
28	---	---	---	7.5	5.6	6.7	6.0	2.9	4.1	6.1	3.8	4.5
29	---	---	---	7.6	5.5	6.3	6.1	2.4	4.1	5.6	3.7	4.5
30	---	---	---	7.1	6.2	6.5	6.2	2.5	4.1	6.2	4.7	5.2
31	---	---	---	7.1	6.2	6.6	---	---	---	5.8	4.2	5.0
MONTH	---	---	---	---	---	---	9.6	1.9	5.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.0	4.1	4.9	7.1	3.7	5.5	8.9	2.8	4.9	6.8	1.1	3.3
2	6.6	4.3	5.3	7.5	4.1	5.3	9.9	3.0	5.3	4.9	1.6	3.1
3	6.3	4.5	5.3	7.8	3.5	5.0	8.7	2.8	4.7	5.3	1.4	3.0
4	6.8	3.9	5.1	7.2	3.0	4.5	8.0	2.0	4.3	7.0	1.9	3.5
5	6.7	3.8	4.9	7.1	2.8	4.3	9.6	2.7	5.1	6.5	1.2	3.3
6	6.6	2.9	4.5	7.6	2.7	4.9	9.9	2.9	5.2	3.5	1.0	2.3
7	7.3	2.9	4.7	5.1	3.2	3.8	9.4	2.6	5.0	3.9	1.3	2.3
8	6.8	3.0	4.8	4.9	2.8	3.7	9.4	2.1	4.6	4.4	1.7	2.7
9	5.7	3.3	4.4	5.8	3.1	4.1	8.9	2.0	4.0	5.0	1.5	2.6
10	5.0	3.3	4.0	6.3	2.9	4.2	9.3	2.0	4.3	4.7	.9	2.4
11	5.1	3.3	4.1	6.4	2.0	3.9	9.5	2.3	4.6	5.8	1.8	3.0
12	4.6	2.9	3.6	6.6	3.2	4.7	8.4	2.5	4.3	6.2	1.6	3.0
13	6.0	3.7	4.6	6.5	3.3	4.4	9.8	2.3	4.6	5.9	1.5	3.0
14	5.6	4.3	4.9	7.9	3.4	4.9	9.0	2.2	4.2	6.1	1.9	3.5
15	5.4	3.6	4.2	8.7	3.6	5.3	9.0	1.9	4.0	6.8	2.2	3.8
16	4.2	3.3	3.7	8.1	3.0	4.8	9.5	2.3	4.5	7.0	2.2	3.8
17	4.8	3.2	4.1	6.3	2.7	4.2	9.6	2.4	4.5	7.3	1.7	3.6
18	5.1	3.8	4.5	5.9	3.0	4.2	6.4	1.8	3.6	6.7	1.8	3.3
19	5.2	4.4	4.8	5.1	1.7	3.6	6.9	2.6	4.1	6.4	1.1	2.9
20	5.5	4.6	5.0	5.0	2.4	3.5	9.2	2.2	4.3	6.0	.7	2.7
21	5.7	4.6	5.2	3.1	1.9	2.6	6.2	1.3	2.9	7.0	1.0	3.0
22	5.9	4.8	5.2	4.0	.7	2.3	7.6	1.8	3.5	7.1	1.2	3.6
23	5.5	3.9	4.8	5.5	1.4	3.1	6.2	1.7	3.0	7.5	1.9	4.1
24	5.9	4.9	5.5	6.4	3.0	4.3	5.9	1.9	3.3	7.7	2.3	4.1
25	5.7	4.7	5.3	6.4	3.0	4.2	7.0	1.8	3.6	6.4	1.3	3.5
26	6.0	4.5	5.3	6.8	2.8	4.2	7.9	1.4	3.5	5.6	1.2	2.5
27	6.1	4.9	5.5	7.6	3.1	4.4	8.1	1.3	3.5	4.6	.6	2.0
28	6.3	5.0	5.6	7.5	2.6	4.3	6.0	.9	2.6	4.2	1.1	2.2
29	6.6	4.9	5.7	8.3	2.6	4.7	6.3	.6	2.5	4.0	1.5	3.0
30	7.6	4.9	6.0	9.0	2.9	5.0	6.7	.8	2.8	3.6	1.4	2.5
31	---	---	---	9.1	3.2	5.2	7.8	.9	3.1	---	---	---
MONTH	7.6	2.9	4.8	9.1	.7	4.3	9.9	.6	4.0	7.7	.6	3.1

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV										
09...	1539	3.1	908	7.5	24.7	1.5	5.2	62	2.3	87
23...	1504	131	277	7.4	22.0	26	4.5	51	--	K5000

DATE	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER-ABLE (MG/L) (00540)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV										
09...	0	298	244	82	6	<1	--	13.0	.356	13.4
23...	0	79	65	23	40	9	31	.176	.021	.197

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
NOV										
09...	.353	15	1.7	1.6	2.0	2.0	3.66	3.76	3.14	9.6
23...	<.020	2.0	--	--	.77	1.8	.547	.177	.174	.53

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV									
09...	7	.06	<1	<.80	14	80	<1	<1.0	55
23...	159	56	<1	1.2	7	600	2	<1.0	E22

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	869	698	808	859	682	810	1000	838	930	931	786	877
2	914	748	865	882	753	851	943	841	910	950	820	912
3	916	769	877	1000	804	901	891	636	785	949	810	901
4	920	791	881	1070	940	1010	863	210	604	920	811	894
5	927	786	880	955	837	920	466	207	302	943	819	914
6	922	831	894	950	797	899	555	372	479	989	829	917
7	955	872	921	980	826	925	628	443	557	958	865	933
8	947	850	919	991	884	947	684	478	602	892	357	549
9	941	815	896	956	870	925	687	302	493	832	488	646
10	950	770	890	960	865	932	670	356	506	852	618	765
11	934	811	898	950	862	918	815	543	713	898	578	799
12	971	822	905	931	856	912	796	311	523	885	680	822
13	1020	887	961	974	868	929	564	330	454	947	637	837
14	968	878	929	989	875	951	693	444	601	948	764	890
15	965	866	923	995	905	960	689	418	538	933	740	876
16	964	865	923	973	893	951	625	455	566	944	791	898
17	963	867	924	977	893	946	685	493	608	918	739	869
18	943	863	914	1010	914	969	768	531	661	913	546	801
19	929	658	797	1020	926	982	783	565	707	912	743	857
20	950	740	843	995	882	949	787	594	710	931	700	866
21	991	861	952	1010	918	975	813	554	697	941	726	892
22	923	778	875	1020	250	690	874	691	820	919	630	830
23	952	839	909	355	261	291	890	719	840	927	728	862
24	933	840	907	745	355	537	925	739	864	956	674	866
25	938	850	910	788	411	647	921	750	865	957	726	907
26	943	850	913	839	598	733	920	753	874	1020	824	958
27	921	848	904	902	695	840	902	760	876	986	248	752
28	944	862	913	923	772	890	899	708	849	511	221	338
29	930	857	909	949	795	901	922	745	875	789	404	585
30	933	444	723	948	788	891	898	729	862	863	502	712
31	788	452	597	---	---	---	923	788	889	868	549	774
MONTH	1020	444	883	1070	250	866	1000	207	695	1020	221	816

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	898	632	795	895	616	797	956	730	870	942	270	546
2	853	550	740	888	585	768	942	91	283	538	117	210
3	833	666	763	1260	628	891	277	247	264	247	188	216
4	903	614	809	1270	713	1010	305	254	275	272	127	212
5	962	698	840	981	694	888	360	252	307	158	123	140
6	904	700	830	972	687	883	410	268	349	172	124	144
7	897	586	764	955	700	874	504	297	412	259	151	192
8	832	494	685	958	709	886	480	281	385	330	185	257
9	656	443	548	980	714	897	604	330	478	406	216	320
10	693	491	589	945	712	882	688	371	588	557	269	413
11	760	525	660	933	695	863	745	428	639	598	313	491
12	809	512	681	933	713	862	753	244	435	636	351	551
13	836	555	715	969	737	896	439	234	331	733	401	606
14	864	570	741	972	768	911	526	279	411	795	416	657
15	890	614	814	876	616	768	642	319	486	849	496	733
16	903	608	818	884	640	799	668	358	541	838	536	753
17	890	639	816	871	507	665	713	397	605	867	543	768
18	883	607	799	829	526	666	765	436	654	881	589	801
19	916	599	803	782	465	611	834	502	730	904	285	730
20	929	670	858	818	514	703	838	519	740	285	97	111
21	954	701	888	859	585	732	855	534	745	110	86	96
22	968	717	896	630	378	498	873	565	788	166	102	129
23	923	362	519	827	476	667	879	590	791	231	135	182
24	776	462	625	837	548	741	882	568	782	296	150	227
25	863	548	722	829	553	740	953	613	835	378	201	303
26	868	545	673	859	598	772	930	683	860	452	229	369
27	857	539	706	870	613	786	936	672	871	501	254	408
28	900	584	797	903	492	785	937	712	869	495	157	240
29	944	610	833	923	618	798	926	696	868	409	191	291
30	---	---	---	960	528	844	927	698	875	521	232	383
31	---	---	---	908	718	857	---	---	---	552	245	439
MONTH	968	362	749	1270	378	798	956	91	602	942	86	384

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	601	321	499	758	456	658	986	759	904	940	110	764
2	696	391	603	779	420	673	916	750	876	776	337	511
3	756	450	652	913	587	788	905	768	876	878	676	774
4	746	452	615	983	164	726	915	815	885	956	764	875
5	710	431	562	562	178	314	940	800	889	967	884	932
6	724	386	601	841	476	649	950	779	902	982	881	931
7	709	377	611	869	550	789	951	853	920	925	861	893
8	781	463	687	911	648	828	981	862	919	918	800	878
9	807	512	727	930	694	869	983	800	901	895	311	614
10	603	254	352	944	725	899	911	785	864	892	637	758
11	593	331	466	968	751	916	914	844	894	893	694	817
12	684	382	568	958	740	911	923	742	888	889	731	832
13	711	434	609	930	778	900	936	730	869	900	117	528
14	727	437	641	964	775	892	998	853	910	449	185	304
15	772	480	692	922	746	861	1040	928	976	465	189	308
16	813	531	737	921	789	890	943	878	907	710	462	574
17	869	448	705	935	799	904	926	884	908	805	590	720
18	767	474	560	1000	810	937	929	866	912	852	665	803
19	616	296	426	999	836	948	932	899	912	914	770	857
20	561	297	436	947	835	912	942	761	884	946	821	911
21	725	418	595	925	835	905	941	826	907	919	656	870
22	755	489	675	953	834	903	976	842	909	879	379	570
23	831	577	755	963	576	885	1010	878	967	826	523	637
24	887	626	799	776	534	647	967	768	891	866	639	786
25	894	670	838	998	655	836	946	722	871	907	679	831
26	908	547	855	1010	722	919	928	778	885	932	782	899
27	836	257	658	920	775	894	928	736	883	982	866	946
28	363	177	248	943	795	908	929	767	887	955	863	931
29	583	324	456	940	799	902	953	765	888	935	798	900
30	689	384	574	941	787	899	966	847	919	937	784	902
31	---	---	---	996	822	927	931	768	897	---	---	---
MONTH	908	177	607	1010	164	835	1040	722	900	982	110	762
YEAR	1270	86	742									

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

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

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	7.7	7.5	7.2	7.4	6.9	7.7	7.4	7.9	7.3	9.2	7.3
2	7.9	6.9	7.4	6.7	7.1	6.8	7.6	7.3	8.0	7.8	7.5	7.2
3	7.3	7.1	7.1	6.8	7.2	6.9	7.8	7.5	7.8	7.7	7.6	7.5
4	7.4	7.3	7.1	6.8	7.2	6.9	7.8	6.9	7.8	7.7	7.7	7.6
5	7.4	7.3	6.9	6.6	7.2	6.9	7.3	6.8	7.8	7.7	7.8	7.6
6	7.5	7.3	6.9	6.7	7.3	7.0	7.4	7.2	7.8	7.6	7.8	7.7
7	7.5	7.3	7.1	6.8	7.4	7.0	7.5	7.3	7.7	7.6	7.8	7.7
8	7.4	7.3	7.2	6.9	7.4	7.2	7.5	7.3	7.7	7.6	7.9	7.7
9	7.5	7.3	7.3	7.0	7.4	7.2	7.5	7.3	7.6	7.6	8.1	7.5
10	7.6	7.3	7.4	7.1	7.4	6.9	7.5	7.4	7.7	7.6	7.6	7.5
11	7.6	7.4	7.5	7.1	7.3	7.0	7.6	7.4	7.7	7.6	7.6	7.6
12	7.6	7.2	7.5	7.2	7.5	7.1	7.6	7.4	7.7	7.5	7.7	7.6
13	7.5	7.2	7.6	7.3	7.7	7.2	7.6	7.4	7.7	7.6	8.7	7.1
14	7.6	7.3	7.6	7.3	7.8	7.6	7.5	7.3	7.7	7.6	7.5	7.1
15	7.5	7.2	7.5	7.3	7.8	7.6	7.5	7.3	7.7	7.5	7.2	6.9
16	7.5	7.2	7.7	7.4	7.8	7.6	7.4	7.3	7.7	7.5	7.4	7.2
17	7.5	7.2	7.7	7.5	7.8	7.5	7.5	7.4	7.7	7.6	7.5	7.4
18	7.6	7.3	7.7	7.4	7.8	7.5	7.5	7.3	7.7	7.6	7.6	7.4
19	7.6	7.3	7.7	7.2	7.7	7.3	7.5	7.3	7.7	7.5	7.9	7.6
20	7.6	7.4	7.3	6.7	7.5	7.3	7.6	7.4	7.7	7.5	7.8	7.7
21	7.6	7.4	6.8	6.6	7.6	7.4	7.5	7.4	7.7	7.5	7.8	7.6
22	7.7	7.4	6.8	6.6	7.7	7.4	7.5	7.4	7.7	7.5	7.7	7.5
23	7.7	7.4	7.0	6.8	7.9	7.6	7.5	7.2	7.7	7.5	7.6	7.5
24	7.7	7.4	7.2	6.8	7.8	7.6	7.4	7.2	7.7	7.6	7.6	7.4
25	7.7	7.5	7.2	6.9	7.7	7.6	7.5	7.3	7.7	7.6	7.6	7.5
26	7.7	7.6	7.4	7.0	7.8	7.5	7.5	7.4	7.8	7.6	7.9	7.5
27	7.7	7.5	7.4	7.1	7.8	7.3	7.5	7.4	7.8	7.6	7.6	7.5
28	7.7	7.5	7.4	6.8	7.3	6.8	7.5	7.4	7.7	7.6	7.6	7.5
29	7.7	7.5	7.2	6.9	7.4	7.1	7.5	7.4	7.8	7.6	7.6	7.5
30	7.7	7.5	7.3	6.9	7.6	7.3	7.5	7.4	7.8	7.6	7.6	7.4
31	---	---	7.4	7.0	---	---	7.5	7.4	7.9	7.7	---	---
MONTH	7.9	6.9	7.7	6.6	7.9	6.8	7.8	6.8	8.0	7.3	9.2	6.9
YEAR	9.2	6.6										

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	26.3	22.3	24.3	23.6	20.1	22.1	21.1	18.7	19.7	21.8	17.5	19.6
2	27.6	23.3	25.1	22.9	20.0	21.7	22.8	20.4	21.6	23.3	21.2	22.0
3	28.9	26.2	27.1	23.0	18.3	20.9	23.0	20.0	21.6	22.8	20.5	22.1
4	28.6	25.8	27.2	24.2	20.5	22.3	22.9	18.5	21.3	20.5	16.4	18.6
5	27.7	25.1	26.5	25.0	22.3	23.5	18.5	15.1	16.5	20.1	15.0	17.6
6	26.7	23.3	25.2	25.5	22.4	23.5	16.5	13.0	15.3	19.5	17.2	18.6
7	27.0	22.5	25.0	25.0	21.4	23.0	17.3	12.3	15.4	20.4	18.0	19.5
8	28.1	25.5	26.5	24.9	21.2	23.1	19.5	15.4	17.8	19.1	13.8	16.0
9	27.8	26.0	26.7	24.9	21.1	23.1	20.2	16.4	18.3	20.8	15.7	17.9
10	27.7	25.4	26.4	25.6	22.6	23.9	19.3	14.3	16.8	20.7	17.1	19.0
11	27.8	25.1	26.3	25.3	22.2	23.7	20.2	16.4	18.4	24.0	18.7	20.8
12	28.0	25.1	26.6	25.2	21.9	23.4	20.3	17.6	19.0	23.5	21.1	22.2
13	28.0	25.0	26.5	24.7	21.4	22.8	18.3	15.6	17.1	24.6	21.7	23.0
14	27.7	24.6	26.3	24.5	20.9	22.4	18.7	13.7	16.7	23.2	19.0	20.6
15	27.8	24.8	26.3	24.9	21.2	23.0	17.5	12.4	14.8	22.1	17.5	19.5
16	27.9	24.7	26.2	24.5	21.0	22.8	15.3	11.1	14.0	22.9	19.5	20.8
17	27.1	25.2	26.0	24.0	20.4	22.3	17.1	12.2	15.1	23.2	19.6	21.2
18	25.2	22.8	24.1	24.7	21.0	22.8	19.0	15.5	17.3	22.3	20.8	21.5
19	23.9	19.4	21.2	25.0	22.4	23.7	19.3	14.4	17.0	23.7	21.0	22.3
20	23.7	18.5	21.2	24.3	21.9	23.2	18.6	15.8	17.5	22.3	19.1	21.0
21	24.6	19.7	22.0	24.6	21.2	22.7	18.6	13.4	16.0	19.9	16.6	18.9
22	25.1	19.6	22.2	25.1	21.1	22.7	18.9	14.2	16.8	21.6	17.8	19.8
23	24.9	21.4	22.9	22.1	20.4	21.3	19.5	14.9	17.2	23.4	20.1	21.2
24	24.5	20.3	22.4	21.2	17.5	19.6	20.5	15.7	17.7	21.5	17.6	20.0
25	24.7	19.9	22.6	20.5	15.8	18.5	19.9	15.9	17.8	21.5	16.2	19.1
26	24.9	20.4	22.9	20.9	15.8	18.0	20.3	16.1	18.0	19.3	15.7	18.2
27	25.4	21.2	23.6	22.4	17.6	19.4	21.4	17.9	19.4	18.6	8.5	15.1
28	25.5	22.6	24.2	23.6	19.4	21.1	19.9	15.2	18.0	11.8	7.6	9.5
29	25.6	22.3	24.1	24.2	20.0	22.1	20.6	15.4	18.0	16.7	9.4	12.7
30	24.5	21.1	23.1	22.7	19.2	21.3	21.2	16.4	18.8	18.9	11.6	15.0
31	22.5	18.3	20.6	---	---	---	21.5	17.9	19.8	19.0	13.1	16.8
MONTH	28.9	18.3	24.6	25.6	15.8	22.1	23.0	11.1	17.7	24.6	7.6	19.0

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	18.1	14.4	16.8	25.1	21.1	23.0	23.7	22.1	22.9	24.9	21.2	23.3
2	17.6	13.9	16.0	24.8	22.4	23.4	23.5	20.3	21.0	24.0	19.3	20.5
3	18.2	14.8	16.6	24.2	21.5	23.0	20.6	18.9	19.8	24.5	19.9	21.9
4	18.6	14.4	16.9	23.3	18.7	20.7	20.7	16.2	18.5	23.8	20.1	22.2
5	18.4	13.7	15.7	23.0	18.6	20.5	22.1	16.5	19.2	24.1	19.6	21.7
6	18.1	14.6	16.1	23.9	19.6	21.7	23.1	18.1	20.8	25.9	22.2	23.8
7	18.8	16.7	17.6	25.3	21.9	23.3	24.2	20.1	22.3	26.9	23.3	25.0
8	20.8	16.0	18.3	25.1	23.0	23.9	24.0	19.4	21.4	27.9	24.4	26.0
9	18.7	13.8	16.7	26.1	23.4	24.5	21.7	17.2	19.8	28.1	24.8	26.4
10	21.2	16.5	18.7	25.6	23.6	24.4	22.5	19.0	21.1	28.3	25.6	26.9
11	22.4	19.2	20.8	23.9	20.0	21.7	23.7	20.8	22.5	27.9	26.1	27.1
12	22.2	19.2	20.9	22.8	17.9	19.9	23.3	19.3	21.3	28.1	26.3	27.1
13	22.7	21.0	21.7	23.4	18.5	20.6	20.8	18.9	19.8	27.3	25.6	26.2
14	22.1	18.4	20.5	21.8	19.5	20.7	21.9	17.3	19.9	26.5	23.6	25.1
15	24.4	20.3	22.1	22.3	19.0	20.8	23.4	19.9	21.8	27.2	23.5	25.2
16	24.4	21.9	22.9	23.8	20.4	21.8	24.5	21.7	23.0	27.6	25.0	26.1
17	24.9	22.4	23.5	22.1	19.7	20.8	25.9	22.2	24.2	28.1	25.5	26.5
18	24.6	22.5	23.4	22.5	18.8	20.4	26.5	23.4	25.0	28.0	25.8	26.7
19	22.7	18.9	20.8	21.6	18.1	20.1	27.2	24.7	25.7	28.0	25.6	26.8
20	22.5	18.0	19.9	22.4	16.8	19.8	26.5	24.4	25.4	25.6	22.0	23.2
21	23.6	18.6	20.7	22.0	19.5	20.8	26.0	22.2	23.9	26.5	23.0	24.5
22	23.6	20.2	21.7	21.9	18.8	20.4	25.3	21.5	23.1	28.0	23.8	25.8
23	22.0	17.9	20.3	24.2	20.4	22.3	26.2	23.0	24.2	28.7	25.0	26.8
24	23.7	19.8	21.6	25.0	22.1	23.5	26.7	23.1	24.8	29.0	25.8	27.4
25	23.5	21.5	22.4	25.5	22.8	23.9	26.7	22.6	24.4	29.0	26.5	27.7
26	22.9	19.9	21.7	25.6	23.2	24.2	26.7	23.1	24.7	29.4	26.8	28.1
27	22.6	17.2	19.6	25.9	23.4	24.5	27.0	23.4	25.0	29.6	27.2	28.4
28	23.3	17.3	20.3	24.8	21.5	23.0	27.1	24.0	25.3	29.1	24.8	26.9
29	23.6	19.5	21.5	26.1	23.2	24.3	26.0	23.2	24.5	29.8	27.2	28.3
30	---	---	---	25.4	22.5	23.8	25.6	23.9	24.6	30.2	28.0	29.1
31	---	---	---	24.7	21.4	23.0	---	---	---	29.8	28.0	28.9
MONTH	24.9	13.7	19.9	26.1	16.8	22.2	27.2	16.2	22.7	30.2	19.3	25.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.0	27.0	28.1	30.2	28.5	29.2	30.4	27.2	28.5	31.2	26.8	29.0
2	28.9	26.6	27.8	30.6	28.1	29.2	30.2	28.0	28.8	30.5	27.3	28.6
3	29.5	27.5	28.3	30.6	28.0	29.0	30.2	27.6	28.6	31.2	28.6	29.7
4	28.2	27.5	27.8	30.3	27.2	28.2	30.0	27.8	28.8	31.2	28.5	29.7
5	27.8	26.7	27.2	29.5	26.1	27.8	30.5	27.8	28.9	31.3	28.5	29.8
6	28.4	25.7	27.0	30.1	27.6	28.7	30.9	28.0	29.1	30.1	27.9	29.1
7	28.2	25.2	26.8	30.7	27.5	28.9	30.8	28.0	29.2	30.0	27.8	28.8
8	27.8	26.0	26.9	30.4	27.5	28.8	29.6	28.1	28.9	29.4	27.6	28.4
9	27.2	26.5	26.8	30.5	27.4	28.7	30.7	27.8	29.1	29.2	26.5	28.0
10	27.9	25.2	26.5	30.6	27.6	28.8	30.6	27.5	28.9	30.5	28.0	29.0
11	28.4	26.9	27.6	30.7	27.6	28.9	31.1	28.1	29.4	30.3	28.3	29.2
12	29.0	26.8	27.9	31.1	27.7	29.1	30.8	28.0	29.2	30.7	28.4	29.5
13	28.6	26.9	27.8	31.1	27.7	29.1	30.7	28.0	29.1	29.5	25.6	27.7
14	28.7	27.0	27.8	31.0	27.6	29.1	30.4	27.4	28.7	28.4	26.4	27.1
15	29.4	26.9	28.0	31.1	28.0	29.3	30.4	28.5	29.3	29.0	25.8	27.1
16	29.8	27.2	28.2	31.1	27.6	29.1	30.8	27.9	29.2	28.6	25.8	27.1
17	28.1	27.1	27.6	31.1	27.9	29.2	31.0	28.1	29.4	27.8	24.6	25.9
18	28.9	26.4	27.4	31.1	28.1	29.4	30.6	28.0	29.2	28.2	24.4	26.0
19	29.6	27.3	28.3	31.5	28.5	29.7	30.5	27.6	28.9	28.7	25.3	26.8
20	29.9	27.8	28.8	31.2	28.0	29.4	30.5	27.5	28.9	29.1	26.8	27.8
21	29.7	28.0	28.8	30.6	28.1	29.2	30.8	28.0	29.3	28.5	27.6	27.9
22	30.1	27.8	28.8	30.8	27.9	29.1	29.6	28.0	28.8	28.8	26.2	27.7
23	30.2	27.6	28.7	30.1	28.1	28.9	29.2	28.2	28.7	29.9	28.0	28.8
24	30.4	27.1	28.4	29.7	27.1	28.4	30.0	27.8	28.7	30.1	28.3	28.9
25	29.7	27.2	28.3	30.2	27.5	28.7	30.0	27.7	28.8	28.7	25.0	26.1
26	30.1	27.2	28.4	30.6	28.1	29.1	30.6	27.9	29.1	25.8	23.0	24.3
27	30.3	27.8	28.9	30.5	27.0	28.6	30.6	27.9	29.1	26.0	23.0	24.4
28	30.5	26.5	28.3	30.3	27.6	28.8	30.7	28.5	29.4	26.7	23.4	24.8
29	30.3	28.1	29.3	30.6	27.6	28.8	30.5	28.1	29.3	26.8	23.5	24.8
30	30.4	28.3	29.2	29.9	27.8	28.7	30.9	28.4	29.5	26.8	23.7	25.0
31	---	---	---	29.3	28.0	28.5	30.8	28.1	29.5	---	---	---
MONTH	30.5	25.2	28.0	31.5	26.1	28.9	31.1	27.2	29.0	31.3	23.0	27.6
YEAR	31.5	7.6	24.0									

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3.2	.7	1.6	4.0	1.6	2.5	---	---	---	6.6	3.0	4.3
2	4.4	.7	1.9	4.6	1.7	3.0	---	---	---	5.3	2.1	3.2
3	4.6	.6	1.6	4.8	2.2	3.5	---	---	---	6.1	1.5	3.3
4	3.7	.6	1.5	4.8	2.0	3.3	6.4	.3	3.0	7.5	3.7	5.1
5	4.2	.6	1.9	---	---	---	7.4	5.8	6.7	7.7	4.4	5.7
6	6.1	1.9	3.4	---	---	---	8.1	7.3	7.7	7.3	4.4	5.7
7	6.3	1.6	3.5	---	---	---	8.3	7.4	7.9	6.6	3.9	5.0
8	5.7	1.4	2.9	---	---	---	7.4	6.4	6.9	8.0	4.8	6.7
9	4.7	1.0	2.2	---	---	---	7.8	5.2	6.3	6.5	3.9	5.4
10	4.5	1.0	2.2	---	---	---	6.7	4.4	5.9	5.6	3.5	4.4
11	3.8	1.1	2.1	5.3	1.1	2.4	5.6	3.7	4.9	6.7	3.5	4.8
12	5.7	1.3	2.7	5.7	1.2	2.6	6.8	2.3	4.8	5.6	3.0	4.1
13	6.0	1.3	2.6	4.7	1.1	2.1	5.7	4.5	5.1	5.6	2.7	4.1
14	5.6	1.1	2.4	3.8	1.0	2.0	5.2	4.5	4.9	6.5	3.0	4.4
15	5.7	.8	2.5	3.5	1.1	1.9	7.1	4.9	6.6	6.9	2.5	4.4
16	6.6	1.4	3.1	4.5	1.0	2.0	7.3	6.8	7.1	6.3	1.3	3.7
17	6.2	1.3	2.9	4.4	1.1	2.1	7.0	6.0	6.5	6.3	2.3	3.7
18	5.1	1.3	2.4	4.2	1.1	1.9	6.1	3.9	5.1	5.4	2.4	3.6
19	5.2	1.6	3.7	3.0	.7	1.5	5.6	3.5	4.7	6.1	2.3	3.9
20	6.3	2.9	4.5	2.5	.6	1.3	5.8	2.3	4.2	7.2	2.6	4.5
21	6.0	2.1	3.7	2.1	.5	1.1	6.2	4.5	5.4	7.1	3.9	5.2
22	5.6	1.6	3.3	6.3	.4	2.7	6.2	3.5	5.0	8.1	4.4	5.7
23	5.7	1.5	2.8	5.0	2.7	3.9	6.1	3.9	4.8	7.1	3.0	4.5
24	5.7	.3	2.6	3.4	.3	2.0	6.0	3.6	4.5	7.5	1.8	4.6
25	5.0	1.3	2.4	4.8	.5	3.1	5.9	3.1	3.9	7.9	2.1	4.8
26	5.7	1.3	3.1	4.4	2.8	3.8	5.4	2.8	3.9	7.2	3.7	5.0
27	5.9	1.6	3.5	---	---	---	5.1	2.7	3.7	11.9	3.3	6.6
28	5.6	1.6	3.3	---	---	---	6.6	2.9	4.5	11.5	9.6	10.5
29	5.4	1.5	3.0	---	---	---	6.7	3.2	4.9	10.4	7.5	9.2
30	4.3	1.4	2.7	---	---	---	7.3	3.5	5.1	9.9	6.1	7.9
31	4.2	2.3	2.9	---	---	---	7.0	3.4	4.5	7.7	4.5	6.3
MONTH	6.6	.3	2.7	---	---	---	---	---	---	11.9	1.3	5.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	3.7	6.8	8.9	4.7	6.0	4.5	1.2	2.6	5.2	2.0	3.4
2	9.0	5.7	7.3	7.9	4.4	5.5	6.9	1.0	4.4	5.8	2.6	4.4
3	9.2	6.4	7.8	8.3	3.6	5.3	5.2	3.0	4.4	---	---	---
4	9.2	6.1	7.5	9.3	3.9	5.6	5.9	4.0	5.0	---	---	---
5	9.8	6.3	7.5	9.1	3.8	5.4	5.9	4.6	5.2	---	---	---
6	9.9	6.2	7.5	6.6	2.7	4.1	5.5	4.2	4.8	4.0	2.8	3.4
7	9.3	5.0	7.3	8.0	2.4	4.4	4.9	2.7	3.9	4.0	2.8	3.3
8	9.1	6.4	7.6	6.9	2.3	4.0	4.6	2.6	3.8	3.6	2.9	3.2
9	9.6	6.8	8.1	6.8	2.2	3.6	5.7	3.2	4.6	3.5	2.6	2.9
10	8.7	6.1	7.1	6.6	1.9	3.4	4.0	2.0	3.0	4.0	2.2	2.9
11	7.7	5.2	6.3	8.2	1.8	4.0	3.9	1.6	2.8	3.9	2.2	2.8
12	8.4	5.1	6.4	8.4	2.5	4.5	5.8	1.5	4.2	3.9	2.2	2.9
13	7.1	4.7	5.7	9.3	2.9	5.0	4.9	3.3	4.2	4.3	2.2	2.9
14	8.0	4.5	5.8	6.0	3.0	4.3	5.7	3.9	4.8	3.7	1.4	2.3
15	8.9	5.0	6.5	6.6	3.4	4.6	5.4	3.0	4.2	2.6	.9	1.7
16	7.7	4.5	5.7	7.4	3.1	4.4	4.3	1.8	3.0	4.0	.9	2.4
17	8.4	4.0	5.7	7.0	2.5	4.9	3.2	.1	1.9	4.1	1.1	2.3
18	7.5	4.0	5.5	6.2	3.1	4.5	4.5	1.7	2.7	4.1	1.2	2.3
19	9.7	4.6	6.2	7.2	3.5	5.2	4.3	1.8	2.9	4.1	1.5	2.5
20	10.1	4.3	6.5	6.6	3.6	4.8	4.6	1.3	3.0	---	---	---
21	10.0	5.0	6.6	5.6	3.7	4.3	4.9	.9	3.1	---	---	---
22	9.4	4.7	6.5	5.7	4.5	5.2	5.6	1.1	2.8	---	---	---
23	6.6	5.1	5.8	6.7	3.9	4.8	5.1	.9	2.8	---	---	---
24	7.1	3.8	5.2	6.5	3.5	4.4	4.7	1.3	2.5	---	---	---
25	6.2	3.8	4.8	7.0	3.5	4.4	5.2	1.4	3.0	---	---	---
26	7.2	3.9	5.0	6.5	2.8	4.0	4.8	.9	2.8	---	---	---
27	8.5	5.1	6.1	6.5	2.8	4.0	5.4	.9	2.5	---	---	---
28	8.6	4.6	5.9	6.1	2.7	3.9	5.7	.8	2.4	---	---	---
29	8.3	4.4	6.0	5.1	1.7	3.1	5.2	.8	2.7	---	---	---
30	---	---	---	4.6	.5	2.0	5.5	1.0	3.1	---	---	---
31	---	---	---	5.9	.6	2.6	---	---	---	---	---	---
MONTH	10.1	3.7	6.4	9.3	.5	4.4	6.9	.1	3.4	---	---	---

08068400 PANTHER BRANCH AT GOSLING RD, THE WOODLANDS, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	6.5	2.3	3.8	---	---	---	---	---	---
2	4.8	2.9	3.6	5.6	1.6	3.1	---	---	---	---	---	---
3	5.0	3.0	3.5	7.2	1.6	3.3	---	---	---	---	---	---
4	4.9	2.2	3.3	7.5	1.8	4.3	---	---	---	---	---	---
5	4.1	2.6	3.2	---	---	---	---	---	---	---	---	---
6	5.4	3.1	3.9	5.2	2.1	3.2	---	---	---	3.1	1.1	2.0
7	5.1	3.1	4.2	4.0	1.7	2.6	---	---	---	2.8	1.0	1.9
8	5.3	3.7	4.2	5.6	1.7	2.7	---	---	---	3.9	.5	1.9
9	4.6	2.6	3.8	3.6	.7	1.9	---	---	---	4.7	1.0	2.1
10	---	---	---	3.8	.6	1.7	---	---	---	2.4	.4	1.1
11	---	---	---	6.1	1.1	2.7	---	---	---	1.6	.3	.8
12	---	---	---	6.3	1.3	2.9	---	---	---	2.9	.0	1.4
13	---	---	---	5.7	.6	2.5	---	---	---	---	---	---
14	4.4	2.3	3.2	4.9	.2	1.4	---	---	---	---	---	---
15	4.7	2.7	3.5	4.5	.2	1.5	---	---	---	---	---	---
16	5.3	2.1	3.3	3.0	.1	.7	4.0	.6	1.6	---	---	---
17	4.4	2.6	3.4	2.3	.1	.5	4.1	.6	1.7	---	---	---
18	5.7	2.9	3.9	3.8	.1	.9	3.8	.5	1.6	---	---	---
19	4.3	2.5	3.3	4.2	.1	1.1	3.9	.3	1.5	---	---	---
20	3.8	2.4	3.0	5.3	.2	1.5	3.2	.2	1.0	3.7	2.4	3.0
21	3.2	.9	2.0	5.2	.2	1.4	2.8	.1	.8	3.1	2.1	2.7
22	4.5	.7	2.1	4.7	.2	1.4	1.2	.2	.6	3.9	1.8	2.8
23	5.1	.9	2.1	2.5	.1	.9	1.5	.2	.6	2.3	.7	1.3
24	6.3	1.0	2.6	2.0	.1	.6	2.3	.3	1.0	1.1	.3	.7
25	5.0	.9	2.1	4.0	.2	1.5	1.9	.2	.9	1.3	.4	.8
26	4.4	.7	2.4	3.7	.2	1.2	2.6	.2	.9	3.5	.6	2.0
27	6.5	1.6	3.3	4.3	.2	1.7	2.0	.1	.6	2.8	1.8	2.4
28	5.0	2.2	3.2	---	---	---	1.3	.0	.4	2.4	1.2	1.8
29	4.3	1.3	2.5	---	---	---	2.3	.0	.7	1.7	1.0	1.3
30	5.5	2.1	3.2	---	---	---	1.2	.1	.4	1.4	.6	1.0
31	---	---	---	---	---	---	2.1	.3	.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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 6.2 mi northwest of Humble.

DRAINAGE AREA.--34.5 mi^2.

PERIOD OF RECORD.--Apr 1972 to Sep 1976 (daily mean discharge). Apr 1980 to Sept 1988 (annual maximum). Aug 1999 to current year (daily mean discharge). Aug to Sep 1999, data unreliable and not published.
Water-quality records.--Chemical data: May 1972 to Sep 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.--Records good except those for estimated daily discharges, which are fair. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	1145	989	110.06	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	9.9	9.4	11	11	6.7	25	15	12	7.7	42
2	7.6	13	10	10	11	11	450	276	14	13	8.4	82
3	6.7	7.0	13	11	9.6	11	262	217	12	9.8	9.4	25
4	6.7	7.9	34	11	9.8	9.7	120	178	13	13	8.4	16
5	5.8	8.2	83	8.7	7.6	9.6	63	348	14	64	8.3	12
6	4.8	8.3	29	8.9	7.9	9.9	33	155	12	27	8.0	11
7	4.6	8.8	18	9.9	12	10	25	93	10	13	7.4	10
8	5.2	8.4	15	19	14	9.9	29	40	12	9.4	7.5	9.3
9	6.0	8.7	32	21	13	10	20	16	13	8.2	8.5	19
10	7.7	9.3	28	16	13	9.7	16	12	29	8.2	7.9	20
11	7.9	9.5	16	12	12	11	14	10	31	7.9	7.2	15
12	6.4	8.3	21	11	11	7.2	30	e9.5	24	7.5	7.5	14
13	6.2	11	26	11	11	7.6	42	e9.0	19	7.2	8.4	67
14	6.2	e12	17	9.8	11	8.1	24	e8.7	16	6.5	8.1	106
15	6.1	e12	14	8.7	9.3	11	19	e8.5	15	6.4	7.7	92
16	6.0	e12	13	8.7	10	10	17	e8.3	12	6.7	7.7	37
17	7.1	12	14	9.3	11	11	15	e8.2	11	7.0	7.4	16
18	6.5	12	13	10	10	12	14	e8.0	14	6.9	7.1	11
19	9.9	14	12	9.1	11	16	13	21	21	7.3	6.4	9.5
20	7.5	12	13	10	8.2	14	12	660	29	7.0	7.1	12
21	5.8	10	14	7.5	8.5	13	9.8	325	18	6.8	7.3	13
22	4.2	52	11	7.9	9.3	23	8.7	145	14	6.9	7.7	25
23	7.0	116	10	9.3	21	19	10	89	11	7.1	7.7	25
24	6.6	57	9.7	9.3	22	15	11	50	9.4	12	8.1	17
25	6.2	21	9.2	7.9	15	13	10	30	8.3	11	8.9	14
26	e5.8	14	9.3	7.5	13	12	10	22	8.1	8.7	8.7	8.9
27	e5.5	11	9.2	30	13	13	8.2	18	8.0	7.3	7.8	8.1
28	e5.0	11	10	80	11	11	8.0	39	25	7.5	7.6	7.4
29	e4.7	12	9.6	25	11	11	8.7	47	30	8.0	8.3	7.3
30	7.0	11	9.7	15	---	11	11	25	16	8.0	8.0	7.3
31	12	---	10	12	---	8.2	---	18	---	7.0	9.6	---
TOTAL	205.7	525.4	542.6	435.9	337.2	358.9	1320.1	2919.2	483.8	338.3	245.8	758.8
MEAN	6.64	17.5	17.5	14.1	11.6	11.6	44.0	94.2	16.1	10.9	7.93	25.3
MAX	12	116	83	80	22	23	450	660	31	64	9.6	106
MIN	4.2	7.0	9.2	7.5	7.6	7.2	6.7	8.0	8.0	6.4	6.4	7.3
AC-FT	408	1040	1080	865	669	712	2620	5790	960	671	488	1510

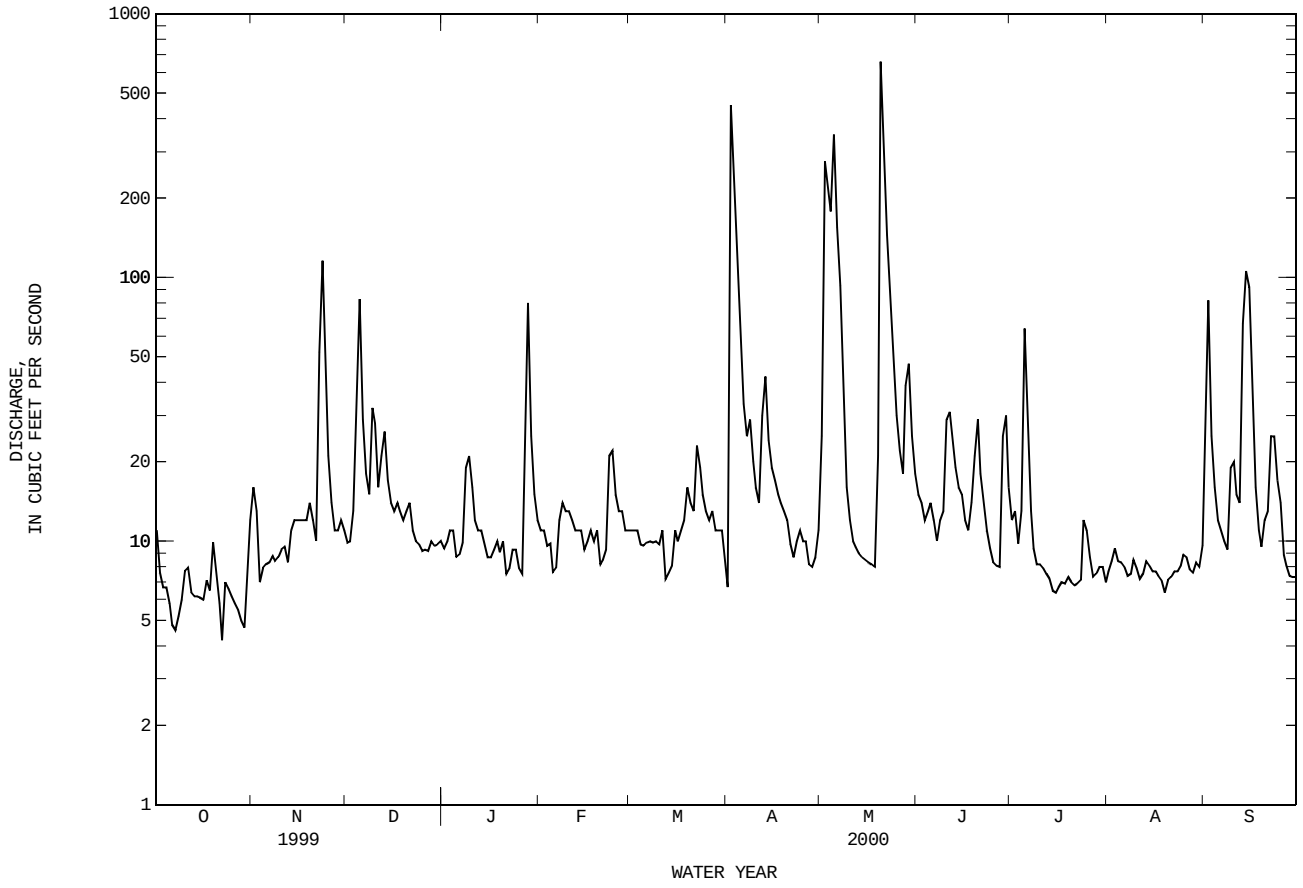
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000h, BY WATER YEAR (WY)

MEAN	26.9	50.7	31.2	45.1	24.1	24.8	51.9	45.5	32.0	7.78	3.43	26.3
MAX	126	138	79.9	165	59.3	78.9	133	110	136	21.5	7.93	92.0
(WY)	1974	1988	1975	1974	1975	1973	1973	1972	1973	1987	2000	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 WATER YEAR		WATER YEARS 1972 - 2000h	
ANNUAL TOTAL	8471.7			
ANNUAL MEAN	23.1		30.1	
HIGHEST ANNUAL MEAN			44.1	1973
LOWEST ANNUAL MEAN			7.04	1976
HIGHEST DAILY MEAN	660	May 20	2350	Nov 25 1987
LOWEST DAILY MEAN	4.2	Oct 22	.00	Jun 10 1972
ANNUAL SEVEN-DAY MINIMUM	5.7	Oct 3	.00	Jun 28 1972
INSTANTANEOUS PEAK FLOW	989	May 20	5650	Nov 24 1985
INSTANTANEOUS PEAK STAGE	110.06	May 20	15.48	Nov 24 1985
ANNUAL RUNOFF (AC-FT)	16800		21830	
10 PERCENT EXCEEDS	30		50	
50 PERCENT EXCEEDS	11		4.1	
90 PERCENT EXCEEDS	7.1		.01	

h see PERIOD OF RECORD paragraph.

08068450 PANTHER BRANCH NEAR SPRING, TX--Continued



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, .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 mi^2.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1879, 34.3 ft, May 30, 1929, from floodmarks identified by local residents, discharge, 48,300 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 21	0115	4,640	13.04	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	30	19	e15	29	20	16	40	39	18	17	34
2	17	21	19	e16	27	20	1410	772	32	18	18	119
3	15	14	23	18	24	20	1050	583	28	e18	16	35
4	14	13	67	e16	24	19	365	796	65	e17	14	17
5	13	13	154	e15	20	18	156	1230	55	78	13	14
6	12	14	81	15	19	19	87	830	33	42	13	13
7	11	13	42	e32	34	19	58	988	25	20	13	13
8	12	14	32	e592	39	19	66	267	24	14	14	13
9	12	14	62	e496	31	19	44	99	26	13	21	24
10	15	13	76	e120	28	19	32	62	88	13	21	25
11	15	14	36	e23	25	21	27	44	112	12	17	19
12	14	13	53	21	23	17	70	34	66	12	18	18
13	14	14	55	20	22	16	105	26	45	12	18	87
14	16	14	36	21	22	17	63	22	55	12	18	163
15	15	15	25	19	19	22	42	20	36	11	15	300
16	14	15	22	19	20	22	35	18	27	12	15	422
17	14	14	22	19	20	22	30	18	27	12	15	86
18	15	15	21	21	20	24	26	17	30	12	14	38
19	17	17	20	20	20	29	24	36	51	13	13	24
20	16	17	22	21	17	30	23	3580	77	12	13	20
21	14	14	27	18	17	30	20	4510	45	12	14	21
22	12	76	20	17	18	51	17	3760	29	12	13	43
23	12	192	18	19	52	48	18	2430	22	13	13	47
24	14	103	18	20	55	33	18	398	18	22	13	27
25	13	49	16	18	34	26	18	129	16	22	13	22
26	14	29	16	17	27	25	17	81	16	16	16	15
27	13	22	16	59	25	24	15	59	15	14	14	13
28	13	20	17	178	23	23	14	81	26	13	14	13
29	15	20	16	71	21	23	14	89	46	13	14	12
30	29	20	e16	36	---	23	16	56	26	14	13	11
31	54	---	e15	34	---	20	---	46	---	14	13	---
TOTAL	501	852	1082	2026	755	738	3896	21121	1200	536	466	1708
MEAN	16.2	28.4	34.9	65.4	26.0	23.8	130	681	40.0	17.3	15.0	56.9
MAX	54	192	154	592	55	51	1410	4510	112	78	21	422
MIN	11	13	15	15	17	16	14	17	15	11	13	11
AC-FT	994	1690	2150	4020	1500	1460	7730	41890	2380	1060	924	3390

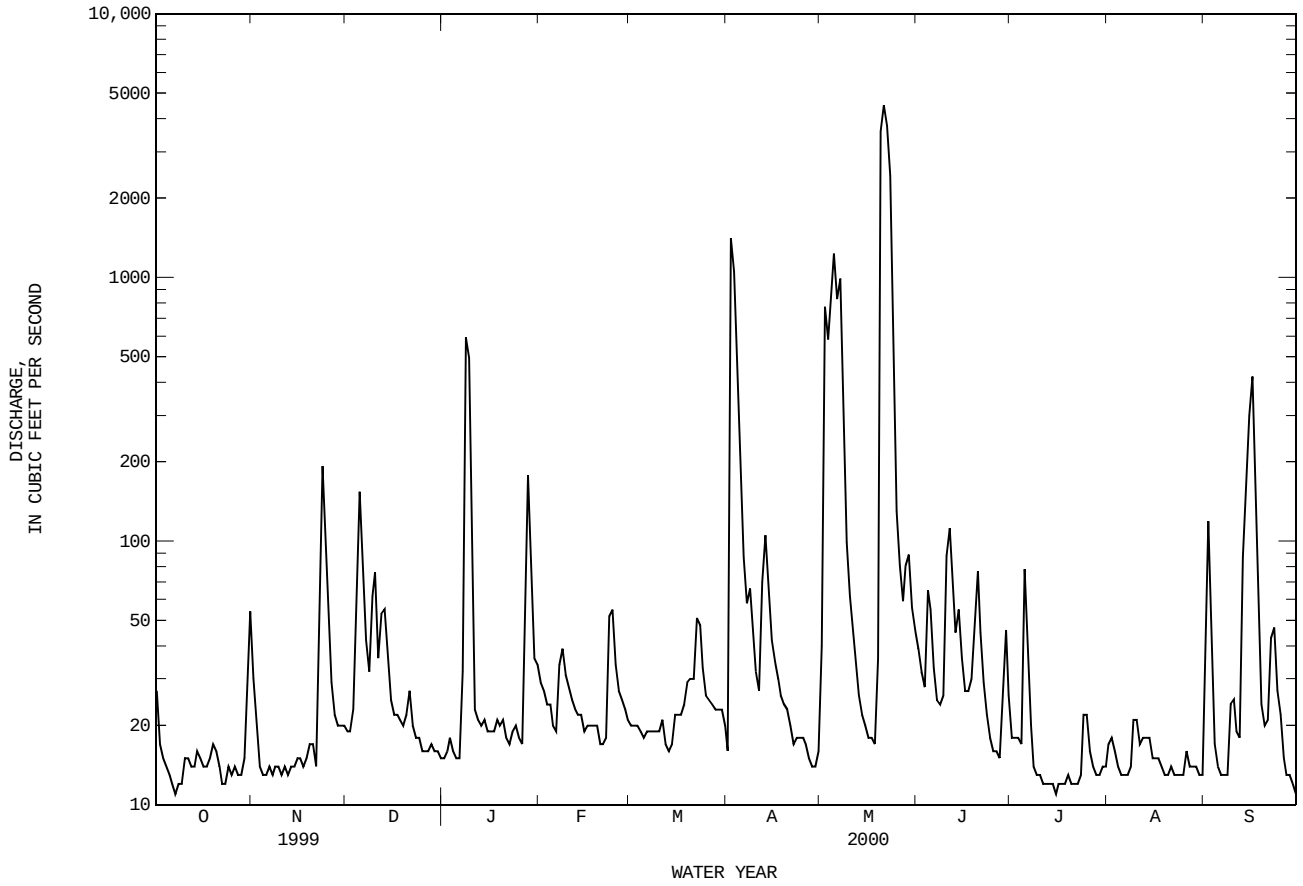
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	217	291	240	339	357	236	342	350	285	89.9	71.1	124
MAX	5189	2982	1949	1710	1932	1164	2106	1541	1519	577	1208	1184
(WY)	1995	1999	1941	1979	1992	1997	1979	1993	1973	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

08068500 SPRING CREEK NEAR SPRING, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	27696		34881			
ANNUAL MEAN	75.9		95.3		246	
HIGHEST ANNUAL MEAN					819	1941
LOWEST ANNUAL MEAN					13.4	1956
HIGHEST DAILY MEAN	1850	May 13	4510	May 21	55900	Oct 18 1994
LOWEST DAILY MEAN	11	Sep 23	11	Oct 7	1.1	Oct 23 1956
ANNUAL SEVEN-DAY MINIMUM	13	Sep 18	12	Jul 11	1.6	Oct 20 1956
INSTANTANEOUS PEAK FLOW			4640	May 21	76500	Oct 18 1994
INSTANTANEOUS PEAK STAGE			13.04	May 21	39.56	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	54940		69190		177900	
10 PERCENT EXCEEDS	133		82		420	
50 PERCENT EXCEEDS	48		20		42	
90 PERCENT EXCEEDS	14		13		11	

e Estimated



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Aug 1983 to current year.
BIOCHEMICAL DATA: Aug 1983 to current year.
PESTICIDE DATA: Aug 1983 to Sep 1990.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Dec 1999 to Sep 2000.
pH: Dec 1999 to Sep 2000.
WATER TEMPERATURE: Dec 1999 to Sep 2000.
DISSOLVED OXYGEN: Dec 1999 to Sep 2000.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 802 microsiemens, Aug 29, 2000; minimum, 70 microsiemens, May 22, 2000.
pH: Maximum, 9.2 units, Sep 14, 2000; minimum, 5.8 units, Jan 5, 2000.
WATER TEMPERATURE: Maximum, 35.0°C, Jul 19, 2000; minimum, 8.5°C, Jan 30, 2000.
DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Aug 19, 2000; minimum, 1.8 mg/L, Apr 30, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 802 microsiemens, Aug 29; minimum, 70 microsiemens, May 22.
pH: Maximum, 9.2 units, Sep 14; minimum, 5.8 units, Jan 5.
WATER TEMPERATURE: Maximum, 35.0°C, Jul 19; minimum, 8.5°C, Jan 30.
DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Aug 19; minimum, 1.2 mg/L, Apr 30.

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

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, ORGANIC TOTAL (MG/L AS N) (00605)
NOV							
24...	1308	1.45	.047	1.49	.031	2.7	1.2

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
NOV							
24...	1.0	1.1	1.3	1.03	.876	.776	2.4

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	680	637	658
2	---	---	---	---	---	---	---	---	---	680	642	658
3	---	---	---	---	---	---	---	---	---	670	636	654
4	---	---	---	---	---	---	---	---	---	675	641	657
5	---	---	---	---	---	---	---	---	---	657	626	639
6	---	---	---	---	---	---	---	---	---	704	648	678
7	---	---	---	---	---	---	---	---	---	704	669	687
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	577	501	526
10	---	---	---	---	---	---	455	323	406	584	543	570
11	---	---	---	---	---	---	454	447	451	605	568	592
12	---	---	---	---	---	---	504	243	408	---	---	604
13	---	---	---	---	---	---	---	---	---	615	591	603
14	---	---	---	---	---	---	510	475	492	635	599	623
15	---	---	---	---	---	---	561	509	543	660	615	636
16	---	---	---	---	---	---	600	539	581	684	645	662
17	---	---	---	---	---	---	602	570	592	682	644	662
18	---	---	---	---	---	---	612	570	598	695	644	662
19	---	---	---	---	---	---	615	567	598	676	637	659
20	---	---	---	---	---	---	---	---	---	675	630	647
21	---	---	---	---	---	---	572	539	560	642	606	622
22	---	---	---	---	---	---	600	538	573	676	642	654
23	---	---	---	---	---	---	643	582	617	677	651	662
24	---	---	---	---	---	---	660	621	641	674	640	662
25	---	---	---	---	---	---	683	645	667	670	642	653
26	---	---	---	---	---	---	682	654	664	694	660	675
27	---	---	---	---	---	---	679	633	653	---	---	---
28	---	---	---	---	---	---	678	648	665	474	338	427
29	---	---	---	---	---	---	---	---	649	474	414	444
30	---	---	---	---	---	---	---	---	651	502	474	496
31	---	---	---	---	---	---	670	642	657	577	492	549
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	573	525	554	656	626	644	687	656	664	709	436	565
2	596	524	556	635	611	623	---	---	---	---	---	297
3	611	551	578	643	616	629	---	---	---	323	266	286
4	627	560	594	634	612	622	340	308	326	280	109	228
5	619	555	592	657	610	627	---	---	329	231	167	205
6	660	601	618	669	635	650	---	---	---	212	130	188
7	663	366	579	672	644	657	---	---	---	149	117	126
8	554	486	516	665	642	655	407	347	380	203	149	180
9	560	494	541	670	640	656	415	387	399	245	202	221
10	595	536	570	667	646	655	469	396	444	284	245	260
11	616	565	592	671	628	650	500	436	483	319	284	301
12	604	566	593	652	608	630	506	261	415	353	319	338
13	622	569	604	701	651	668	367	323	345	374	340	363
14	644	595	625	701	669	685	409	347	362	432	361	409
15	644	610	631	680	637	658	446	409	428	460	408	432
16	648	615	635	662	637	652	483	406	462	487	442	467
17	645	605	626	653	628	639	494	406	406	504	455	481
18	646	616	632	646	617	638	511	456	489	499	455	479
19	642	612	636	634	590	622	536	482	509	502	222	455
20	642	590	615	628	597	612	547	519	537	324	89	117
21	682	640	653	627	503	596	582	528	552	98	76	82
22	697	660	676	560	508	539	607	582	596	81	70	75
23	---	---	---	596	539	566	651	602	626	116	72	90
24	538	492	519	593	543	565	650	599	618	186	116	146
25	538	504	525	578	551	569	639	601	612	214	186	194
26	569	526	558	613	564	594	639	603	618	249	214	228
27	608	557	591	644	591	619	649	617	631	265	247	259
28	629	580	613	628	613	621	704	649	680	305	243	273
29	650	604	629	657	610	634	718	687	705	275	224	244
30	---	---	---	664	637	648	729	698	714	305	257	278
31	---	---	---	680	643	654	---	---	---	---	---	314
MONTH	---	---	---	701	503	628	---	---	---	---	---	277

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	342	497	401	468	700	663	681	781	258	680
2	---	---	346	---	---	---	688	472	653	490	263	426
3	400	348	377	---	---	---	696	650	672	505	472	480
4	420	294	358	---	---	---	661	622	645	602	505	577
5	355	305	336	---	---	---	681	651	666	693	573	648
6	368	333	350	417	340	359	694	664	683	711	666	694
7	---	---	---	495	417	466	703	676	693	743	703	723
8	433	382	407	541	465	516	717	684	707	773	738	757
9	420	350	403	603	525	561	693	644	677	738	443	622
10	416	268	316	639	594	610	722	654	696	638	551	594
11	296	82	249	654	622	636	654	542	622	668	557	642
12	321	291	300	663	628	642	666	621	643	677	632	665
13	---	---	315	673	641	658	660	612	633	665	164	499
14	---	---	---	680	651	667	662	614	634	501	387	459
15	---	---	---	734	679	715	717	662	689	545	235	377
16	---	---	---	766	724	752	730	688	709	237	165	186
17	---	---	---	757	720	743	731	701	714	280	218	245
18	---	---	412	753	724	742	750	726	737	397	280	340
19	---	---	---	749	696	729	784	750	771	484	377	410
20	---	---	---	761	729	750	799	759	783	558	481	514
21	---	---	---	757	728	748	789	763	778	576	511	548
22	---	---	---	783	735	764	800	767	788	512	382	468
23	---	---	---	774	724	757	797	756	778	464	424	442
24	---	---	---	726	625	692	799	762	785	491	453	481
25	---	---	---	625	552	585	796	762	782	564	469	527
26	---	---	---	680	577	626	790	714	737	608	515	561
27	580	528	543	710	679	694	786	735	764	666	608	639
28	599	407	547	732	710	723	788	767	779	711	663	681
29	407	321	355	737	699	715	802	760	778	735	698	716
30	431	357	408	743	701	720	798	740	775	750	694	731
31	---	---	---	724	688	707	782	752	770	---	---	---
MONTH	---	---	---	---	---	---	802	472	717	781	164	544

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	7.9	6.7	7.4	6.9	8.2	7.4
2	---	---	---	---	---	---	8.1	7.2	7.3	6.8	8.1	7.4
3	---	---	---	---	---	---	7.8	7.3	7.8	6.9	8.4	7.5
4	---	---	---	---	---	---	8.3	6.3	7.8	7.1	8.5	7.6
5	---	---	---	---	---	---	7.9	5.8	7.8	6.9	8.5	7.4
6	---	---	---	---	---	---	7.7	7.0	7.9	6.9	8.3	7.4
7	---	---	---	---	---	---	7.7	7.0	7.7	7.2	8.3	7.3
8	---	---	---	---	---	---	---	---	7.7	7.0	8.1	7.3
9	---	---	---	---	---	---	8.1	7.3	7.9	7.0	8.6	7.5
10	---	---	---	---	8.0	7.2	8.1	7.5	8.3	7.1	8.2	7.5
11	---	---	---	---	7.7	7.0	8.1	7.1	8.1	7.5	8.6	7.5
12	---	---	---	---	7.6	7.1	8.0	7.6	8.3	7.6	8.7	7.6
13	---	---	---	---	---	---	8.0	7.6	8.2	7.5	8.8	7.5
14	---	---	---	---	7.7	6.5	8.1	7.0	8.4	7.2	7.9	7.6
15	---	---	---	---	7.6	6.0	8.1	7.2	8.5	7.5	8.2	7.5
16	---	---	---	---	7.6	6.2	8.1	7.2	8.1	7.6	8.6	7.6
17	---	---	---	---	7.7	6.8	8.1	7.3	8.1	7.5	8.5	7.4
18	---	---	---	---	7.6	6.9	8.1	7.4	7.9	7.5	8.4	7.4
19	---	---	---	---	7.6	6.7	8.1	7.4	8.4	7.7	8.6	7.3
20	---	---	---	---	---	---	8.1	6.8	8.5	7.1	8.6	7.4
21	---	---	---	---	7.6	6.4	7.8	7.1	8.3	7.7	7.9	7.4
22	---	---	---	---	7.5	6.4	8.1	7.0	8.0	7.6	7.9	7.3
23	---	---	---	---	7.6	6.5	7.9	7.3	8.0	7.5	8.1	7.5
24	---	---	---	---	7.6	6.4	8.2	6.8	8.6	7.7	8.2	7.3
25	---	---	---	---	7.6	6.5	8.1	6.8	7.9	7.6	8.5	7.3
26	---	---	---	---	7.7	7.0	7.9	7.0	8.0	7.6	8.4	7.3
27	---	---	---	---	7.6	6.8	---	---	8.3	7.7	8.5	7.4
28	---	---	---	---	7.7	6.4	8.5	6.9	8.3	7.5	8.3	7.3
29	---	---	---	---	---	---	8.4	7.3	8.2	7.5	8.5	7.2
30	---	---	---	---	7.9	6.3	7.8	7.0	---	---	8.6	7.4
31	---	---	---	---	7.8	7.2	7.4	7.0	---	---	8.5	7.4
MONTH	---	---	---	---	---	---	---	---	8.6	6.8	8.8	7.2

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.6	7.1	7.5	7.1	7.2	7.1	7.8	7.4	8.7	7.5	9.0	7.6
2	7.9	7.1	7.6	7.1	7.3	7.1	---	---	8.4	7.6	9.1	7.2
3	7.8	7.3	7.7	7.3	7.4	7.2	---	---	8.7	7.6	9.0	8.2
4	7.6	7.5	7.7	7.0	7.4	7.3	---	---	8.6	7.6	8.5	7.6
5	---	---	7.6	7.0	7.4	7.3	---	---	8.8	7.6	8.2	7.6
6	---	---	7.4	6.9	7.4	7.3	8.7	7.8	8.9	7.6	8.4	7.7
7	---	---	7.0	6.9	---	---	8.0	7.5	9.0	7.6	8.6	7.7
8	7.4	7.0	7.2	7.0	7.6	7.2	8.1	7.5	8.6	7.6	8.5	7.8
9	7.3	7.2	7.2	7.1	7.6	7.3	8.5	7.5	8.8	7.5	8.4	7.7
10	7.3	6.9	7.2	7.1	7.6	7.4	8.6	7.5	8.8	7.6	8.9	7.8
11	7.4	6.9	7.2	7.1	7.6	7.4	8.8	7.6	8.9	7.5	8.8	7.7
12	7.6	7.2	7.2	7.0	7.5	7.4	8.9	7.6	8.9	7.5	8.6	7.7
13	7.4	7.1	7.2	7.1	---	---	8.9	7.6	9.0	7.5	8.5	7.7
14	7.4	6.9	7.3	7.1	7.6	7.3	8.8	7.6	8.9	7.5	9.2	8.5
15	7.3	7.0	7.4	7.2	7.4	7.3	8.6	7.6	8.8	7.5	9.0	7.6
16	7.3	7.0	7.6	7.2	---	---	8.8	7.6	9.0	7.4	7.6	7.4
17	7.3	7.0	7.9	7.2	---	---	8.8	7.6	9.0	7.4	7.6	7.5
18	7.5	7.0	7.9	7.2	---	---	8.7	7.6	9.1	7.5	7.6	7.5
19	7.7	7.0	7.8	7.2	---	---	8.7	7.5	9.1	7.5	7.6	7.5
20	8.0	7.1	7.4	6.7	---	---	8.8	7.5	9.1	7.5	7.8	7.6
21	8.2	7.0	6.7	6.5	---	---	8.7	7.5	9.0	7.5	7.9	7.6
22	8.1	7.3	6.5	6.4	---	---	8.8	7.5	8.5	7.5	7.9	7.7
23	8.2	7.1	6.7	6.5	---	---	8.5	7.5	8.4	7.5	8.2	7.8
24	8.6	7.3	6.9	6.7	---	---	8.4	7.5	8.7	7.5	8.0	7.7
25	8.5	7.3	6.9	6.8	---	---	8.2	7.4	8.8	7.5	8.2	7.8
26	8.7	7.2	6.9	6.8	---	---	8.1	7.3	9.0	7.6	8.1	7.8
27	8.5	7.1	6.9	6.8	8.5	7.5	8.4	7.4	9.1	7.6	8.3	7.8
28	8.7	7.1	7.1	6.9	8.4	7.5	8.6	7.4	9.0	7.6	8.6	8.0
29	8.1	7.2	7.1	7.0	8.8	7.6	8.6	7.5	9.0	7.6	8.6	8.0
30	8.0	7.1	7.0	6.9	8.4	7.5	8.4	7.5	9.0	7.6	8.7	7.9
31	---	---	7.1	6.9	---	---	8.1	7.6	9.0	7.6	---	---
MONTH	---	---	7.9	6.4	---	---	---	---	9.1	7.4	9.2	7.2

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	17.1	12.4	14.7
2	---	---	---	---	---	---	---	---	---	20.1	17.1	18.5
3	---	---	---	---	---	---	---	---	---	20.2	16.5	19.2
4	---	---	---	---	---	---	---	---	---	16.5	12.2	14.0
5	---	---	---	---	---	---	---	---	---	12.6	9.4	11.2
6	---	---	---	---	---	---	---	---	---	14.6	11.5	13.0
7	---	---	---	---	---	---	---	---	---	15.2	14.1	14.6
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	17.5	14.3	15.6
10	---	---	---	---	---	---	16.3	14.1	15.1	17.3	14.0	15.5
11	---	---	---	---	---	---	16.6	14.3	15.2	19.0	14.2	16.5
12	---	---	---	---	---	---	19.2	16.6	17.8	20.5	17.1	---
13	---	---	---	---	---	---	17.1	14.3	15.8	21.4	18.2	19.8
14	---	---	---	---	---	---	15.8	12.0	13.9	18.2	14.9	16.2
15	---	---	---	---	---	---	14.0	11.6	12.9	17.2	12.9	15.0
16	---	---	---	---	---	---	13.0	9.8	11.4	19.2	14.9	17.0
17	---	---	---	---	---	---	14.3	10.5	12.3	19.7	15.9	17.8
18	---	---	---	---	---	---	15.1	13.6	14.5	21.1	17.1	18.9
19	---	---	---	---	---	---	15.2	11.6	13.4	21.5	18.2	19.6
20	---	---	---	---	---	---	---	---	---	19.7	15.9	17.8
21	---	---	---	---	---	---	14.0	12.2	13.0	15.9	13.5	14.1
22	---	---	---	---	---	---	13.0	10.3	11.7	18.1	14.0	16.1
23	---	---	---	---	---	---	13.1	9.9	11.5	19.4	16.6	17.7
24	---	---	---	---	---	---	13.3	9.7	11.6	17.5	14.3	15.7
25	---	---	---	---	---	---	12.9	10.3	11.6	15.0	11.7	13.4
26	---	---	---	---	---	---	13.6	10.0	11.8	13.2	11.2	11.8
27	---	---	---	---	---	---	15.6	12.3	13.7	---	---	---
28	---	---	---	---	---	---	14.2	11.3	12.8	10.4	9.2	9.7
29	---	---	---	---	---	---	---	---	---	10.5	8.8	9.5
30	---	---	---	---	---	---	---	---	---	11.4	8.5	9.8
31	---	---	---	---	---	---	16.3	13.5	15.0	13.0	9.6	10.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.7	11.1	11.7	23.8	19.1	21.2	23.2	21.1	21.8	25.5	22.4	23.9
2	13.2	11.5	12.3	24.6	20.5	22.3	---	---	---	23.9	---	---
3	15.8	10.6	13.0	24.2	19.6	22.0	---	---	---	24.1	21.5	22.6
4	15.7	11.6	13.4	21.8	16.3	18.9	21.3	18.3	19.7	23.7	20.3	22.0
5	14.4	10.4	12.4	20.4	15.5	18.0	---	17.5	---	23.2	20.6	21.8
6	13.5	9.5	11.7	21.5	17.0	18.9	---	---	---	23.7	22.0	22.6
7	16.4	13.0	14.4	24.6	19.6	21.7	---	---	---	24.0	21.8	22.8
8	18.6	15.0	16.2	24.6	21.4	22.8	23.6	19.6	21.5	27.0	23.1	24.7
9	17.7	13.0	15.3	27.3	21.7	24.0	23.0	16.9	19.7	27.4	23.7	25.3
10	20.2	14.8	17.0	25.8	22.6	24.0	22.2	18.3	20.1	28.9	24.5	26.2
11	20.8	17.3	18.8	23.7	18.5	20.8	24.5	20.1	21.9	29.1	25.4	26.9
12	20.9	17.4	19.1	21.2	15.1	18.2	22.5	19.8	21.0	29.8	25.8	27.4
13	21.7	18.4	19.6	21.5	15.3	18.4	20.5	18.9	19.9	27.9	25.3	26.5
14	21.0	16.0	18.3	---	17.1	---	22.6	17.4	19.7	28.8	23.1	25.5
15	22.8	17.6	19.9	21.4	17.9	19.4	24.4	18.9	21.3	29.4	22.5	25.7
16	22.5	19.4	20.8	23.7	18.8	20.9	24.9	21.1	22.7	29.3	24.1	26.5
17	23.5	20.4	21.9	23.1	18.8	20.7	27.8	21.2	24.0	30.4	24.7	27.2
18	22.7	20.8	21.6	22.0	18.2	20.0	28.9	22.3	25.1	30.1	25.6	27.6
19	20.8	17.0	18.8	22.4	17.8	19.8	29.3	23.8	26.2	29.7	25.2	27.4
20	19.4	14.8	17.1	22.1	15.5	18.5	28.6	23.8	25.8	25.5	22.5	23.3
21	20.4	15.0	17.6	19.9	18.2	19.0	27.8	21.0	24.3	---	---	---
22	20.7	17.0	18.8	21.9	19.5	20.5	25.9	20.0	23.1	---	---	---
23	20.8	18.7	19.6	23.8	19.2	21.4	27.6	22.0	24.3	---	---	---
24	22.3	18.4	20.1	25.5	20.6	22.7	28.7	22.4	25.4	---	---	---
25	22.1	19.9	20.9	27.2	21.3	23.8	28.3	21.6	24.9	29.1	25.9	27.2
26	21.2	18.2	20.4	27.0	22.3	24.3	29.6	21.8	25.3	---	28.5	---
27	21.2	15.2	18.0	27.5	22.8	24.6	28.6	22.7	25.6	---	27.1	---
28	21.2	14.8	17.8	24.7	20.0	22.4	29.5	23.6	26.2	28.8	26.9	28.2
29	21.4	17.0	19.1	27.9	22.1	24.6	27.2	22.8	24.9	31.1	27.4	28.9
30	---	---	---	27.1	21.6	24.3	25.9	23.1	24.3	---	27.6	---
31	---	---	---	25.0	20.3	22.7	---	---	---	---	27.7	---
MONTH	23.5	9.5	17.4	---	15.1	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	27.2	---	32.9	28.5	30.6	32.2	26.5	29.1	32.8	28.3	29.9
2	---	26.5	---	---	28.2	---	31.0	27.7	29.1	32.2	26.4	29.5
3	31.4	27.6	29.2	---	---	---	32.3	26.9	29.4	33.7	29.1	31.0
4	28.8	27.3	28.0	---	---	---	31.4	27.6	29.6	33.6	28.7	31.1
5	27.9	26.6	27.2	---	31.8	---	32.3	27.4	29.8	32.7	28.7	30.8
6	30.1	25.3	27.3	32.8	28.2	30.2	32.9	27.9	30.4	31.6	27.5	29.7
7	---	---	---	33.1	28.0	30.5	33.3	28.1	30.7	31.4	27.3	29.3
8	28.6	25.6	27.2	33.3	28.0	30.6	31.7	28.4	29.8	29.3	26.8	28.1
9	27.3	26.0	26.6	33.6	28.0	30.7	32.7	27.2	29.6	30.5	27.0	28.5
10	27.5	25.2	26.4	33.2	28.2	30.6	33.0	27.1	29.9	31.4	27.6	29.3
11	28.2	26.2	27.1	33.7	27.9	30.7	33.5	28.0	30.5	32.2	27.8	29.8
12	30.4	26.2	28.1	34.2	28.0	31.1	33.5	28.0	30.8	31.5	27.8	29.5
13	---	---	---	34.5	28.4	31.4	33.1	28.4	30.8	29.4	26.9	27.7
14	---	---	---	34.6	28.5	31.5	31.7	27.6	29.7	29.5	27.7	28.4
15	---	---	---	34.0	28.9	31.6	32.1	28.0	30.0	28.5	26.6	27.4
16	---	---	---	34.5	28.5	31.5	33.0	27.6	30.3	26.9	24.9	25.9
17	---	---	---	33.9	28.7	31.4	33.1	28.0	30.6	27.0	23.1	24.9
18	---	---	---	34.1	28.9	31.5	33.1	28.1	30.6	27.3	22.4	24.6
19	---	27.6	---	35.0	29.2	31.9	32.8	27.8	30.3	28.2	22.8	25.3
20	---	---	---	34.8	29.0	31.9	32.4	27.6	30.1	29.8	24.6	26.9
21	---	---	---	33.9	29.0	31.5	32.1	28.0	30.2	29.0	26.3	27.4
22	---	---	---	34.2	28.8	31.4	30.9	28.0	29.2	29.7	26.5	27.9
23	---	---	---	32.8	29.0	30.8	28.9	27.2	28.0	30.4	27.5	28.7
24	---	---	---	32.8	27.0	29.5	30.5	26.5	28.4	31.5	27.7	29.3
25	---	---	---	31.8	27.1	29.3	31.6	26.7	29.0	28.9	23.7	26.1
26	---	---	---	32.0	27.9	29.8	32.4	27.1	29.7	25.2	20.9	23.0
27	34.1	27.8	30.6	32.6	26.6	29.5	32.8	27.6	30.1	24.9	20.1	22.5
28	33.3	28.6	30.7	32.5	27.5	30.0	32.7	27.8	30.2	24.9	20.0	22.4
29	33.1	29.0	30.6	33.1	27.8	30.5	32.8	27.9	30.4	25.0	20.0	22.6
30	33.9	28.4	30.7	31.8	28.2	30.2	33.1	28.3	30.6	25.3	20.3	22.8
31	---	---	---	30.5	28.2	29.2	32.5	28.4	30.6	---	---	---
MONTH	---	---	---	---	---	---	33.5	26.5	29.9	33.7	20.0	27.3

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	15.7	7.7	10.7
2	---	---	---	---	---	---	---	---	---	14.6	6.5	9.5
3	---	---	---	---	---	---	---	---	---	13.0	5.6	8.4
4	---	---	---	---	---	---	---	---	---	14.9	7.3	10.4
5	---	---	---	---	---	---	---	---	---	15.9	9.1	11.7
6	---	---	---	---	---	---	---	---	---	15.4	8.8	11.0
7	---	---	---	---	---	---	---	---	---	14.0	8.0	10.1
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	14.0	8.2	10.2
10	---	---	---	---	---	---	10.2	8.3	9.1	13.0	8.0	9.8
11	---	---	---	---	---	---	9.1	8.0	8.5	12.3	7.2	9.2
12	---	---	---	---	---	---	8.1	7.3	7.8	11.1	---	---
13	---	---	---	---	---	---	---	---	---	10.9	6.2	7.7
14	---	---	---	---	---	---	10.5	8.6	9.4	12.5	7.0	9.2
15	---	---	---	---	---	---	10.7	8.8	9.5	13.5	8.2	10.1
16	---	---	---	---	---	---	11.2	9.0	9.9	13.4	7.7	9.7
17	---	---	---	---	---	---	11.2	8.8	9.9	13.4	7.3	9.4
18	---	---	---	---	---	---	10.2	8.0	9.0	13.2	6.9	9.0
19	---	---	---	---	---	---	11.3	7.7	9.4	12.1	6.5	8.4
20	---	---	---	---	---	---	---	---	---	13.3	6.4	9.1
21	---	---	---	---	---	---	11.6	8.7	9.8	12.8	7.8	9.7
22	---	---	---	---	---	---	11.8	9.0	10.1	13.2	7.7	10.0
23	---	---	---	---	---	---	12.1	8.6	10.1	12.3	7.1	9.0
24	---	---	---	---	---	---	12.5	8.0	9.7	13.8	7.5	10.0
25	---	---	---	---	---	---	12.7	8.3	10.0	14.5	8.6	10.9
26	---	---	---	---	---	---	13.2	8.4	10.4	14.0	9.1	11.2
27	---	---	---	---	---	---	13.2	7.9	10.2	---	9.9	---
28	---	---	---	---	---	---	13.7	8.6	10.5	12.3	11.3	11.7
29	---	---	---	---	---	---	---	---	---	13.4	11.4	12.2
30	---	---	---	---	---	---	15.2	---	---	12.9	10.7	11.9
31	---	---	---	---	---	---	14.8	7.8	10.4	13.1	10.5	11.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.4	9.7	10.6	12.9	6.1	8.4	9.5	4.8	6.6	---	---	---
2	12.7	9.6	10.7	12.2	5.3	7.9	---	---	---	---	---	---
3	12.9	9.3	10.7	13.4	5.4	8.4	7.0	---	---	---	---	---
4	13.1	9.1	10.6	14.5	6.2	9.4	7.8	6.9	7.4	---	---	---
5	13.5	8.8	10.9	14.8	6.7	9.8	---	7.0	---	---	---	---
6	13.9	9.5	11.2	14.2	6.0	9.1	---	---	---	7.0	6.6	6.7
7	11.2	8.6	9.4	14.1	6.0	9.0	---	---	---	6.7	6.4	6.6
8	11.0	8.0	9.1	12.6	5.1	8.0	6.9	5.2	6.1	6.6	5.8	6.3
9	12.2	7.9	9.5	14.1	5.1	8.3	7.6	5.7	6.8	6.2	5.4	5.8
10	12.1	7.2	8.9	12.3	4.6	7.5	7.7	5.7	6.7	---	5.3	5.5
11	10.9	6.6	8.1	14.5	5.2	9.2	7.6	5.0	6.3	5.7	4.7	5.4
12	12.2	6.5	8.4	15.9	7.1	10.6	7.3	4.7	6.4	5.9	4.9	5.4
13	11.2	6.3	7.9	16.4	7.1	10.5	7.5	6.1	7.0	6.6	5.3	5.8
14	12.0	6.9	8.6	---	6.7	---	7.9	6.3	5.5	6.8	5.3	6.0
15	13.0	6.5	8.8	13.2	6.2	8.9	7.7	2.5	6.6	8.7	4.5	6.6
16	11.5	5.9	7.8	14.3	5.7	8.8	7.5	2.0	5.8	9.7	5.0	7.2
17	11.9	5.5	7.9	14.6	5.7	8.8	8.2	4.7	6.4	11.2	5.1	7.6
18	10.7	5.6	7.5	12.9	6.1	8.8	9.1	4.6	6.5	10.9	4.4	7.4
19	13.6	6.2	9.3	14.6	6.1	9.4	9.9	4.2	6.6	10.5	4.8	6.7
20	14.5	7.3	10.1	14.8	6.6	9.5	10.1	4.1	6.8	7.5	5.9	6.4
21	14.5	7.8	10.2	11.0	5.5	7.2	11.4	4.8	7.4	5.9	5.2	5.5
22	13.1	7.0	9.2	10.3	6.1	7.8	11.7	4.8	7.7	5.6	5.2	5.3
23	9.5	---	---	11.7	6.0	8.1	10.4	4.5	7.0	---	---	---
24	12.2	6.6	8.7	11.8	5.2	7.6	10.9	4.0	6.8	---	---	---
25	10.2	6.4	7.9	12.9	5.0	7.9	10.7	3.8	6.7	5.8	5.3	5.7
26	10.9	6.0	7.5	12.9	4.6	7.7	10.7	3.4	6.5	5.9	5.5	5.8
27	13.2	7.0	9.2	13.3	4.8	7.8	10.0	2.8	6.0	---	5.5	---
28	13.6	7.3	9.5	13.3	5.0	8.2	---	2.0	---	6.4	5.5	6.0
29	12.9	6.8	9.0	---	4.8	8.2	8.2	2.1	5.0	7.1	5.3	6.3
30	---	---	---	15.0	4.5	8.6	7.3	1.8	4.5	---	5.2	5.9
31	---	---	---	15.2	5.0	8.9	---	---	---	---	5.3	---
MONTH	14.5	---	---	---	4.5	---	---	---	---	---	---	---

08068500 SPRING CREEK NEAR SPRING, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	4.0	---	7.4	3.6	5.2	11.2	3.7	7.3	17.4	2.4	7.4
2	---	5.5	6.0	---	3.1	---	9.8	4.3	6.2	10.1	4.5	6.5
3	6.9	5.5	6.1	---	---	---	11.7	3.9	7.3	11.8	3.5	6.9
4	6.5	5.7	6.0	---	---	---	11.8	3.8	7.5	11.4	2.9	6.5
5	6.7	5.9	6.3	---	---	---	12.5	4.3	8.0	9.5	2.4	5.8
6	7.3	6.0	6.6	11.3	5.4	7.8	13.5	3.8	8.1	10.2	3.4	6.3
7	---	---	---	9.6	5.2	7.1	14.3	3.0	8.3	11.8	3.6	7.1
8	8.4	5.6	6.8	10.0	4.5	7.0	9.2	3.5	6.5	11.0	4.1	7.1
9	7.7	5.8	6.6	11.6	4.3	7.6	13.1	3.7	7.1	10.2	4.4	6.7
10	6.4	4.5	6.2	12.2	4.3	7.8	13.1	3.6	7.4	12.1	4.4	7.4
11	6.8	5.8	6.1	13.5	4.6	8.3	13.3	3.3	7.2	13.0	4.0	7.4
12	7.3	5.5	6.4	13.9	4.3	8.4	14.2	3.2	7.8	11.9	3.8	6.8
13	---	---	---	13.8	4.0	8.3	14.4	3.4	7.9	7.1	3.8	5.4
14	---	---	---	13.6	3.6	8.1	13.3	3.4	7.6	7.8	5.1	6.2
15	---	---	---	12.5	2.4	7.6	14.8	2.9	7.8	8.0	5.7	6.5
16	---	---	---	13.3	3.0	7.9	16.2	3.0	8.5	7.3	6.4	6.8
17	---	---	---	12.8	3.0	7.9	15.6	3.3	8.6	7.2	6.3	6.8
18	---	---	---	12.8	3.1	7.9	17.4	3.2	9.0	7.3	6.3	6.8
19	---	---	---	13.6	3.2	8.1	18.4	3.3	9.5	7.5	5.5	6.8
20	---	---	---	14.0	3.8	8.2	18.1	3.2	9.4	8.1	6.0	6.9
21	---	---	---	13.7	3.2	8.0	16.7	2.8	8.9	8.9	6.5	7.3
22	---	---	---	14.2	3.0	8.3	12.2	2.6	6.8	8.2	6.4	7.2
23	---	---	---	11.1	2.9	6.5	12.2	2.8	6.9	9.6	6.3	7.7
24	---	---	---	11.6	2.6	6.4	14.1	3.7	8.1	9.3	6.3	7.4
25	---	---	---	10.3	3.7	6.5	15.9	2.6	8.3	10.7	6.2	8.1
26	---	---	---	9.8	2.6	6.0	16.9	3.4	8.7	11.6	7.4	9.0
27	10.1	4.3	6.6	12.0	2.2	6.6	17.8	3.1	8.9	10.8	7.2	8.7
28	10.0	4.3	6.3	12.0	2.6	6.9	17.8	2.7	8.8	11.9	6.2	8.3
29	9.3	4.5	6.4	12.3	3.5	7.5	18.1	2.2	8.5	12.6	6.2	8.7
30	8.6	4.2	6.0	10.5	3.3	7.0	18.3	2.5	8.9	12.8	6.0	8.8
31	---	---	---	8.2	3.0	5.8	17.1	2.7	8.6	---	---	---
MONTH	---	---	---	---	---	---	18.4	2.2	8.0	17.4	2.4	7.2

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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 mi^2.

PERIOD OF RECORD.--Jun 1975 to Jul 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 fair. 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	3.7	.17	.00	.00
2	.00	.00	.00	.00	.00	.00	2.2	50	11	.11	.00	.00
3	.00	.00	.00	.00	.00	.00	34	88	3.6	.02	.00	.00
4	.00	.00	.00	.00	.00	.00	24	32	2.0	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	11	37	1.9	2.5	.00	.00
6	.00	.00	.00	.00	.00	.00	3.3	39	1.5	1.7	.00	.00
7	.00	.00	.00	.00	.00	.00	.49	15	1.3	.21	1.1	.00
8	.00	.00	.00	.00	.00	.00	.15	7.8	.78	.06	3.0	.00
9	.00	.00	.00	.00	.00	.00	.19	1.9	.69	.00	3.0	.00
10	.00	.00	.00	.00	.00	.00	.10	.70	5.8	.00	1.3	.00
11	.00	.00	.00	.00	.00	.00	.01	.36	5.2	.00	.19	.00
12	.00	.00	.00	.00	.00	.00	23	.08	7.1	.00	.03	.00
13	.00	.00	.00	.00	.00	.00	29	.00	17	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	18	.00	8.2	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	7.5	.00	3.9	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	2.7	.00	2.3	.54	.00	.00
17	.00	.00	.00	.00	.00	.00	1.8	.00	3.9	.38	.00	.00
18	.00	.00	.00	.00	.00	.00	.59	.00	9.9	.15	.00	.00
19	.00	.00	.00	.00	.00	.00	.21	.23	19	1.2	.00	.00
20	.00	.00	.00	.00	.00	.00	.15	302	10	2.2	.00	.00
21	.00	.00	.00	.00	.00	.00	.04	432	4.7	.58	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	428	3.0	.18	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	107	1.5	.04	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	40	.68	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	23	.22	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	14	.27	.00	.00	.00
27	.00	.00	.00	.84	.00	.00	.00	7.7	.22	.00	.00	.00
28	.00	.00	.00	5.1	.00	.00	.00	4.1	.54	.00	.00	.00
29	.00	.00	.00	2.5	.00	.00	.00	2.5	2.4	.00	.00	.00
30	.00	.00	.00	.37	---	.00	.00	5.1	.74	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	4.3	---	.00	.00	---
TOTAL	0.00	0.00	0.00	8.81	0.00	0.00	158.43	1641.77	133.04	10.04	8.62	0.00
MEAN	.000	.000	.000	.28	.000	.000	5.28	53.0	4.43	.32	.28	.000
MAX	.00	.00	.00	5.1	.00	.00	34	432	19	2.5	3.0	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00
AC-FT	.00	.00	.00	17	.00	.00	314	3260	264	20	17	.00

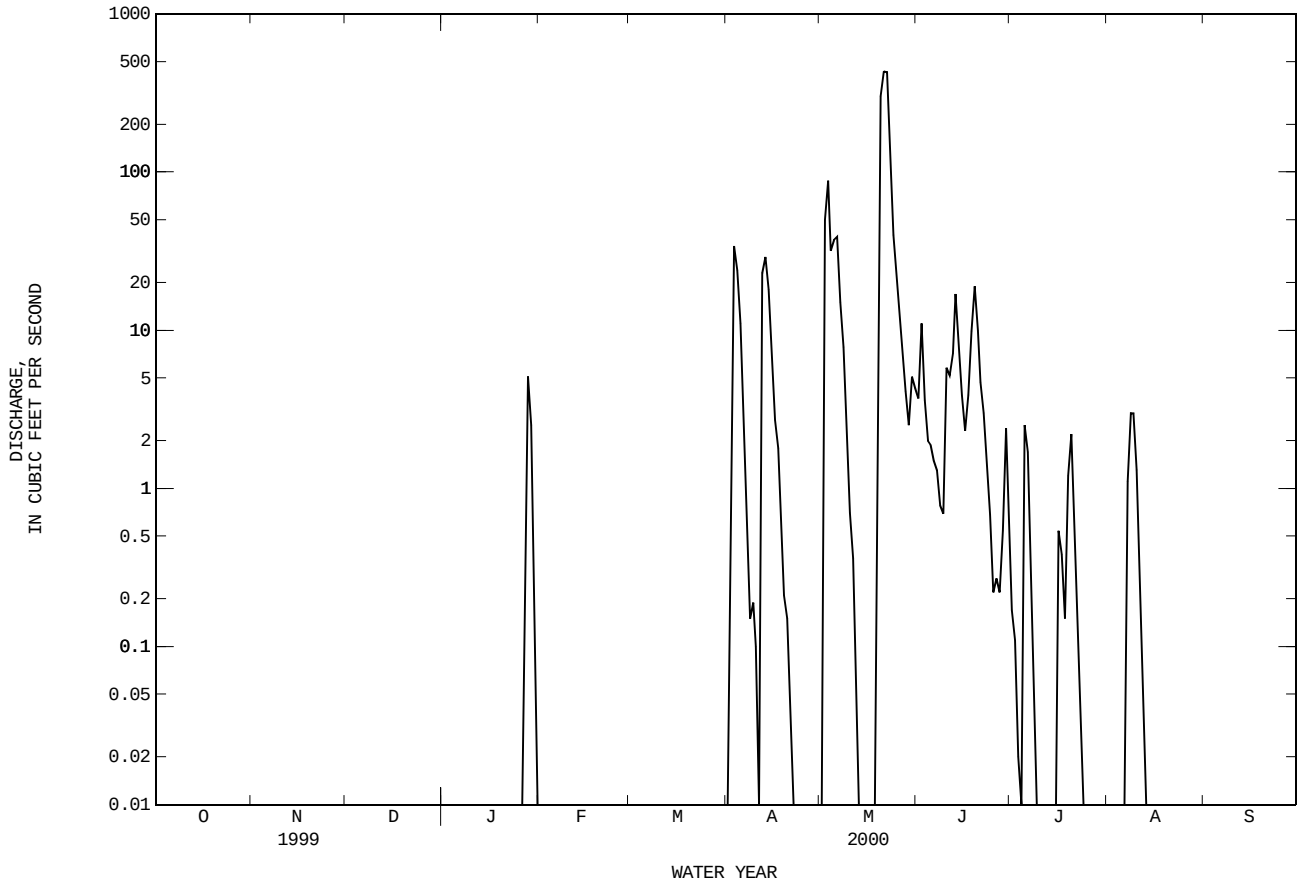
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000h, BY WATER YEAR (WY)

MEAN	53.7	60.5	70.9	95.9	85.2	51.0	64.2	83.3	89.1	15.5	4.90	31.1
MAX	368	359	257	508	534	196	344	377	375	98.7	24.8	358
(WY)	1999	1999	1977	1979	1992	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000h	
ANNUAL TOTAL	1431.86		1960.71			
ANNUAL MEAN	3.92		5.36		58.3	
HIGHEST ANNUAL MEAN					186	1979
LOWEST ANNUAL MEAN					5.01	1990
HIGHEST DAILY MEAN	139	Mar 20	432	May 21	2240	Jan 20 1979
LOWEST DAILY MEAN	.00	Apr 23	.00	Oct 1	.00	Sep 9 1975
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	.00	Oct 1	.00	Jan 31 1976
INSTANTANEOUS PEAK FLOW			509	May 22	2370	Jan 20 1979
INSTANTANEOUS PEAK STAGE			53.86	May 22	63.49	Oct 19 1998
ANNUAL RUNOFF (AC-FT)	2840		3890		42220	
10 PERCENT EXCEEDS	7.6		4.0		114	
50 PERCENT EXCEEDS	.35		.00		2.8	
90 PERCENT EXCEEDS	.00		.00		.00	

h See PERIOD OF RECORD paragraph.

08068720 CYPRESS CREEK AT KATY-HOCKLEY ROAD NEAR HOCKLEY, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jun 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	.16	9.9	2.2	.06	.56	.72	2.3	7.6	.06	1.3	9.1
2	.79	.13	5.9	2.6	.20	.56	73	76	3.7	.03	.88	53
3	.43	.12	.74	2.6	.53	.60	109	91	10	.04	.14	1.2
4	.59	1.5	19	1.3	.48	.54	36	40	.93	.04	.07	.10
5	1.0	6.2	64	1.1	.34	.53	8.3	60	.48	.11	.05	.11
6	1.2	1.5	17	2.8	.33	.95	1.6	35	.32	.17	.05	.03
7	2.0	.42	11	4.5	7.1	1.1	.88	12	.19	.13	.05	.02
8	.57	1.6	2.4	17	2.7	1.2	.51	4.0	.16	.07	.05	.04
9	1.0	9.8	2.7	18	.02	1.2	.34	1.7	.23	.31	.05	.15
10	6.6	14	7.6	5.0	.00	1.1	.47	.69	7.3	.05	.06	.18
11	6.0	8.6	5.1	1.8	.00	3.8	.53	.36	52	.04	.05	.31
12	3.8	5.6	20	.79	.01	2.5	33	.56	38	.02	.16	4.8
13	2.5	7.2	22	.54	.09	1.4	19	.38	8.1	.02	.15	141
14	1.6	4.2	6.5	.28	.30	2.4	5.8	.29	3.5	.03	.08	16
15	1.1	4.6	2.6	.07	.39	11	2.4	.27	1.2	.23	.07	20
16	.77	11	.92	.05	.46	4.1	.57	.26	.81	.33	.09	.09
17	2.6	5.5	.32	.05	.77	1.2	.88	.25	.89	.11	.06	.00
18	13	7.3	.08	.03	.99	.53	1.0	.32	3.2	.09	.06	.00
19	11	9.1	.03	.00	.94	.56	.62	3.8	5.3	.04	.06	.00
20	9.9	3.1	.05	.00	1.0	1.1	.60	e402	4.3	.03	.07	.00
21	5.0	.98	.16	.00	1.4	2.2	.50	495	1.6	.08	.07	.00
22	2.3	1.1	.49	.00	2.2	2.2	.55	555	.93	.11	.07	.00
23	1.7	36	1.3	.00	15	1.8	.47	207	.66	.08	.29	.00
24	1.1	33	1.2	.00	.49	2.8	.79	46	.29	.08	.20	.00
25	8.8	13	.66	.01	.01	3.1	.75	16	.15	.06	.12	.00
26	41	8.8	.44	.00	.05	.97	1.2	5.5	.11	.07	.09	.00
27	18	4.9	.39	46	.20	.51	1.1	2.4	.15	.54	.08	.00
28	5.9	2.7	.60	75	.34	.43	1.2	1.9	.07	3.5	.07	.00
29	1.4	3.0	1.4	3.2	.45	.37	1.4	.86	.05	.74	.06	.00
30	.39	5.6	2.2	.76	---	.39	1.5	.87	.09	.23	.05	.00
31	.07	---	2.4	.14	---	.37	---	3.9	---	.16	.03	---
TOTAL	154.21	210.71	209.08	185.82	36.85	52.07	304.68	2065.61	152.31	7.60	4.68	246.13
MEAN	4.97	7.02	6.74	5.99	1.27	1.68	10.2	66.6	5.08	.25	.15	8.20
MAX	41	36	64	75	15	11	109	555	52	3.5	1.3	141
MIN	.07	.12	.03	.00	.00	.37	.34	.25	.05	.02	.03	.00
AC-FT	306	418	415	369	73	103	604	4100	302	15	9.3	488

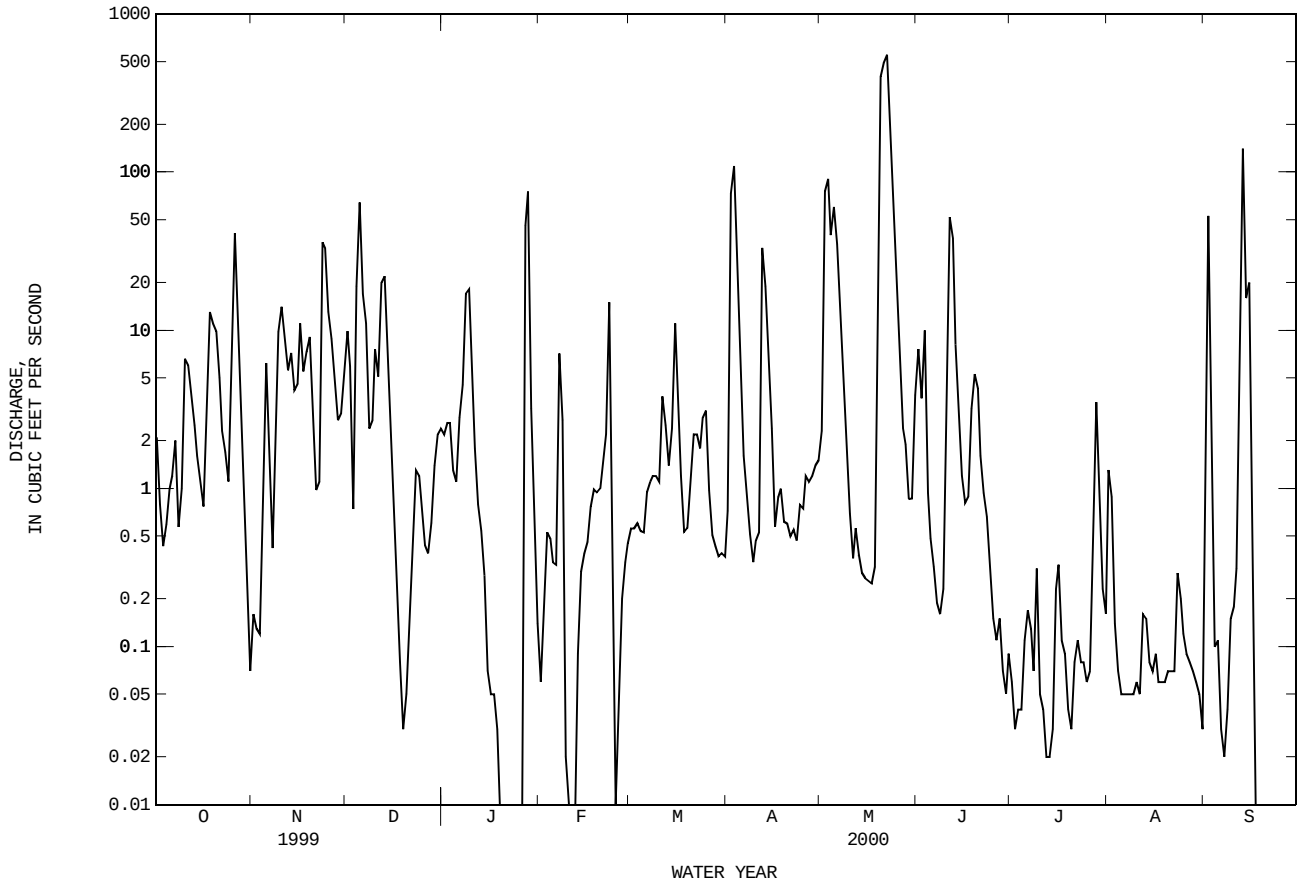
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

MEAN	88.4	88.9	98.7	120	109	66.3	86.2	111	123	24.0	15.2	51.9
MAX	996	787	336	685	649	257	463	513	625	120	214	537
(WY)	1999	1999	1977	1979	1992	1995	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	6357.03		3629.75			
ANNUAL MEAN	17.4		9.92		81.4	
HIGHEST ANNUAL MEAN					255	1979
LOWEST ANNUAL MEAN					9.49	1996
HIGHEST DAILY MEAN	426	Mar 20	555	May 22	7640	Oct 20 1998
LOWEST DAILY MEAN	.03	Dec 19	.00	Jan 19	.00	Mar 3 1976
ANNUAL SEVEN-DAY MINIMUM	.17	Sep 22	.00	Sep 17	.00	Jan 3 1978
INSTANTANEOUS PEAK FLOW			772	May 20	9710	Oct 20 1998
INSTANTANEOUS PEAK STAGE			41.10	May 20	48.45	Oct 20 1998
ANNUAL RUNOFF (AC-FT)	12610		7200		58990	
10 PERCENT EXCEEDS	34		14		168	
50 PERCENT EXCEEDS	6.0		.75		5.5	
90 PERCENT EXCEEDS	.65		.03		.30	

e Estimated

08068740 CYPRESS CREEK AT HOUSE AND HAHL ROAD NEAR CYPRESS, TX--Continued



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 mi^2.

PERIOD OF RECORD.--May 1982 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--10 years (water years 1983-92) 24.0 ft^3/s (17,370 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 4,520 ft^3/s Oct 18, 1994 (gage height 81.41 ft).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	1115	2,030	79.03	No other peak greater than base discharge.			

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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 mi^2.

PERIOD OF RECORD.--May 1982 (discharge measurements only), Oct 1982 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--10 years (water years 1983-92) 116 ft^3/s (83,910 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft^3/s Oct 18, 1994 (gage height 47.38 ft).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge.							

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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 mi^2.

PERIOD OF RECORD.--Jun 1982 to May 1986, Feb to Sep 1987 (gage heights and discharge measurements only), Oct 1987 to Sep 1989 (daily mean discharge), Oct 1989 to Sep 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 fair. 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, 11,300 ft^3/s, Oct 19, 1994, gage height, 39.61 ft.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 2	0515	2,270	25.61	May 20	0445	3,540	29.59

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08069000 CYPRESS CREEK NEAR WESTFIELD, TX

LOCATION.--Lat 30°02′08", long 95°25′43", Harris County, Hydrologic Unit 12040102, on left bank at downstream side of downstream bridge on Interstate Highway 45 and U.S. Highway 75, 0.9 mi upstream from Senger Gully, 1.8 mi northwest of Westfield, 2.0 mi upstream from Missouri Pacific Railroad Co. bridge, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--285 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jul 1944 to current year.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 63.89 ft above sea level, unadjusted for land-surface subsidence. Prior to Mar 17, 1951, water-stage recorder at upstream side of bridge at datum 12.00 ft higher. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Low flow is maintained by wastewater effluent. Channel below gage was rectified in 1950-51, 1975, and 1981. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 34 ft May 1929 (discharge, 26,000 ft^3/s), present datum, from information by local resident. Flood in Nov 1940 reached a stage of about 32 ft, present datum (discharge, 15,000 ft^3/s), from information by Texas Department of Transportation.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 2	0830	3,400	12.56	May 20	0500	6,330	16.73

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	27	21	22	34	29	28	89	53	52	66	49
2	29	25	22	20	36	27	957	1640	55	37	43	80
3	29	24	30	21	35	28	430	357	245	34	38	74
4	30	22	177	24	33	28	205	545	198	33	33	45
5	29	23	133	25	29	27	117	559	81	35	34	38
6	26	20	51	21	30	28	68	142	50	e35	32	34
7	25	23	34	19	158	26	48	85	45	34	32	34
8	27	24	28	119	116	26	86	60	42	37	119	33
9	49	23	42	67	47	25	45	46	104	38	121	63
10	67	22	80	34	36	25	35	39	244	39	47	38
11	34	23	36	28	32	32	30	34	128	40	42	38
12	30	25	177	23	29	32	219	31	180	37	96	35
13	29	23	62	25	29	31	166	31	122	37	48	156
14	24	23	35	23	29	44	74	30	75	40	39	154
15	22	25	27	24	27	82	46	30	53	43	36	233
16	22	24	25	24	26	48	37	30	41	43	36	83
17	21	25	23	21	26	36	34	29	63	42	35	46
18	29	25	22	21	29	30	30	28	130	37	34	38
19	59	25	23	24	26	35	27	292	85	34	34	33
20	33	23	29	23	25	35	27	4330	71	33	36	32
21	24	25	35	23	26	39	29	1640	50	31	37	141
22	24	180	26	21	28	95	28	803	41	33	36	297
23	22	375	22	21	226	43	26	498	37	61	36	68
24	22	90	22	21	82	32	25	219	34	113	40	40
25	23	80	21	21	42	29	25	106	32	43	66	40
26	22	39	20	24	40	29	23	70	33	30	45	31
27	26	26	21	211	34	30	24	54	44	28	39	29
28	26	23	21	314	32	29	25	63	34	26	38	30
29	25	23	22	83	29	27	23	52	32	28	34	34
30	64	22	22	45	---	28	25	46	31	33	34	32
31	50	---	24	36	---	27	---	64	---	45	35	---
TOTAL	978	1357	1333	1428	1371	1082	2962	12042	2433	1231	1441	2078
MEAN	31.5	45.2	43.0	46.1	47.3	34.9	98.7	388	81.1	39.7	46.5	69.3
MAX	67	375	177	314	226	95	957	4330	245	113	121	297
MIN	21	20	20	19	25	25	23	28	31	26	32	29
AC-FT	1940	2690	2640	2830	2720	2150	5880	23890	4830	2440	2860	4120

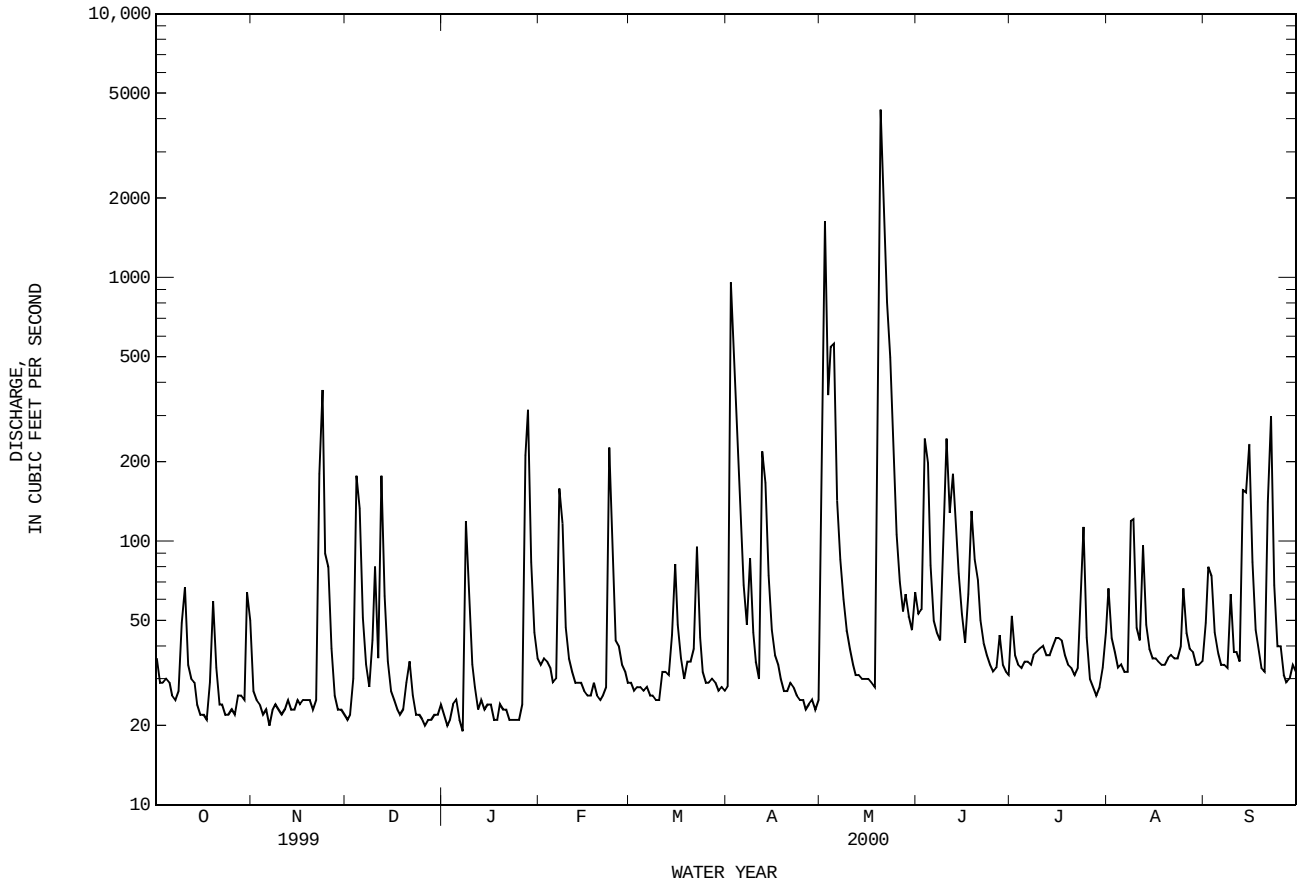
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

MEAN	193	187	191	235	235	125	208	275	243	83.4	61.3	139
MAX	1768	1788	931	1168	1322	787	1133	1260	1157	588	562	862
(WY)	1995	1947	1992	1979	1992	1997	1973	1953	1960	1960	1945	1961
MIN	.13	.023	.15	.60	1.39	.21	1.50	1.77	1.64	.26	.087	1.21
(WY)	1957	1956	1951	1951	1951	1956	1963	1956	1958	1958	1948	1956

08069000 CYPRESS CREEK NEAR WESTFIELD, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	23872		29736			
ANNUAL MEAN	65.4		81.2		181	
HIGHEST ANNUAL MEAN					510	1992
LOWEST ANNUAL MEAN					7.53	1956
HIGHEST DAILY MEAN	2130	May 12	4330	May 20	15600	Oct 8 1949
LOWEST DAILY MEAN	20	Nov 6	19	Jan 7	.00	Aug 3 1948
ANNUAL SEVEN-DAY MINIMUM	21	Dec 23	21	Dec 23	.00	Aug 3 1948
INSTANTANEOUS PEAK FLOW			6330	May 20	22100	Oct 8 1949
INSTANTANEOUS PEAK STAGE			16.73	May 20	33.44	Oct 8 1949
ANNUAL RUNOFF (AC-FT)	47350		58980		131100	
10 PERCENT EXCEEDS	117		124		400	
50 PERCENT EXCEEDS	35		34		28	
90 PERCENT EXCEEDS	23		23		1.6	

e Estimated



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Mar 1959 to Apr 1964, Oct 1977 to Jun 1978, Aug 1983 to current year.
BIOCHEMICAL DATA: Aug 1983 to current year.
PESTICIDE DATA: Aug 1983 to Sep 1990, Jun 2000 to Aug 2000.
SEDIMENT DATA: Oct 1976 to Sep 1979, Oct 1986 to Apr 1990.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
JUN												
29...	1430	27	764	8.6	32.0	41	27	9.6	132	150	110	100
AUG												
23...	1440	27	861	8.1	29.5	15	2.4	5.9	77	580	120	99

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	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)
JUN												
29...	32	5.0	108	5	9.7	29	95	.50	15	436	416	20
AUG												
23...	31	5.1	132	6	10	30	110	.60	17	497	477	28

DATE	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER-ABLE (MG/L) (00540)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
JUN												
29...	10	10	--	--	5.71	.020	6.8	1.1	.67	.69	1.1	2.02
AUG												
23...	<10	--	5.54	.077	5.62	.089	6.6	.90	.90	.99	.99	2.41

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)	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)	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)
JUN												
29...	1.93	1.87	5.7	7.4	7.0	20.1	2.00	18	<1.0	5	94	<1.0
AUG												
23...	2.11	2.11	6.5	6.1	5.4	E1.20	E.080	7.5	<1.0	5	107	<1.0

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)
JUN												
29...	<1.0	E.58	<1.0	4.6	<10	<1.0	1.1	<.2	6.5	1.5	<2	<1.0
AUG												
23...	<1.0	E.56	<1.0	5.4	E6.4	<1.0	<1.0	<.2	6.9	1.9	<2	<1.0

08069000 CYPRESS CREEK NEAR WESTFIELD, TX--Continued

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

DATE	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)	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)
JUN												
29...	26	<1.0	--	--	--	--	--	--	--	--	--	--
AUG												
23...	30	<1.0	<.0030	<.0020	<.002	.134	<.0010	<.0020	<.0020	<.0030	<.0030	<.0040

DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
JUN											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	<.0040	<.0020	E.0172	.105	124	<.001	<.0170	<.0020	<.0040	<.0030	<.0030

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	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)
JUN											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	<.004	<.0020	<.005	<.002	<.004	<.0040	<.0030	<.0060	<.004	<.0040	<.0040

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROP-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)
JUN											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	<.0020	E.0027	<.0070	<.0040	<.0130	<.0030	<.0050	<.0100	<.0070	<.0130	<.0020

DATE	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)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUN											
29...	--	--	--	--	--	--	340	350	.157	16	1.2
AUG											
23...	<.0010	<.0020	<.0020	114	<.0050	<.0060	360	370	.148	31	2.3

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 mi^2.

PERIOD OF RECORD.--Apr 1939 to current year.
Water-quality records.--Chemical data: Sep 1961 to Apr 1964, Jan 1968 to Sep 1989. Biochemical data: Aug 1983 to Sep 1989. Pesticide data: Jan to Aug 1984.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 5, 1935, reached a stage of 23.6 ft (discharge, 53,500 ft^3/s), present site and datum, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s:

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	49	31	33	44	35	30	22	24	26	16	11
2	24	36	33	33	41	34	72	355	24	203	17	12
3	24	31	38	33	39	33	164	e500	22	877	16	12
4	24	29	49	33	37	32	180	e700	22	181	19	12
5	22	29	72	32	36	30	110	e850	27	65	19	11
6	21	31	81	32	34	30	72	e620	66	47	16	10
7	21	30	55	33	35	30	54	510	180	38	14	10
8	21	31	44	34	36	29	44	182	173	33	14	9.9
9	25	29	42	43	39	29	40	91	73	29	16	11
10	42	29	44	43	37	30	35	68	58	25	16	12
11	36	29	45	39	37	30	33	57	68	24	15	14
12	27	29	41	40	37	29	37	49	90	22	14	29
13	24	28	88	39	38	30	57	45	99	21	13	53
14	23	27	72	36	38	34	55	43	89	19	12	72
15	25	27	50	34	36	37	47	38	57	18	12	32
16	23	28	45	34	35	41	40	35	42	17	13	23
17	21	27	41	34	36	36	36	34	35	17	13	20
18	20	27	40	34	35	36	33	32	76	16	12	18
19	23	26	39	33	34	39	30	30	129	16	12	16
20	26	26	38	33	33	39	27	40	97	15	11	15
21	25	27	38	32	31	39	25	53	68	14	11	23
22	22	28	37	32	32	37	23	44	53	14	12	29
23	21	39	35	32	37	37	23	37	45	14	15	24
24	20	52	35	33	51	35	22	35	39	13	16	21
25	19	46	34	32	45	33	23	31	31	14	18	18
26	19	41	34	31	42	34	21	28	26	14	16	16
27	22	41	34	34	43	67	20	26	24	13	14	20
28	19	37	34	58	42	86	19	26	27	13	13	16
29	20	34	34	67	37	54	19	25	34	13	13	16
30	28	32	33	50	---	41	18	24	34	13	12	15
31	48	---	34	47	---	34	---	23	---	13	11	---
TOTAL	765	975	1370	1153	1097	1160	1409	4653	1832	1857	441	600.9
MEAN	24.7	32.5	44.2	37.2	37.8	37.4	47.0	150	61.1	59.9	14.2	20.0
MAX	48	52	88	67	51	86	180	850	180	877	19	72
MIN	19	26	31	31	31	29	18	22	22	13	11	9.9
AC-FT	1520	1930	2720	2290	2180	2300	2790	9230	3630	3680	875	1190
CFSM	.08	.10	.14	.11	.12	.12	.14	.46	.19	.18	.04	.06
IN.	.09	.11	.16	.13	.13	.13	.16	.53	.21	.21	.05	.07

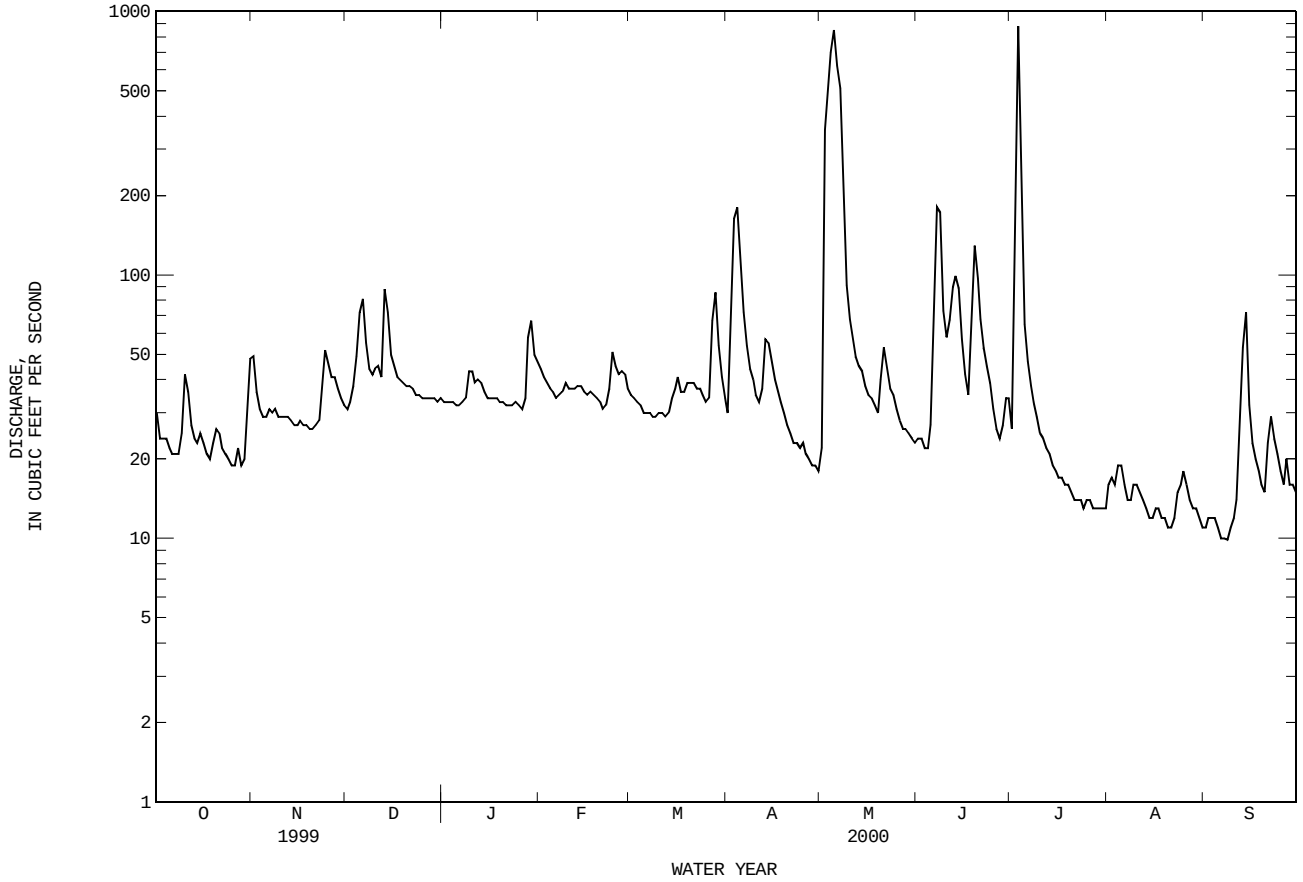
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	164	293	268	383	388	270	342	295	264	88.1	50.9	83.4
MAX	2964	3101	1613	1745	1336	748	2302	1473	2023	676	939	894
(WY)	1995	1941	1941	1998	1992	1973	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

08070000 EAST FORK SAN JACINTO RIVER NEAR CLEVELAND, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	64131		17312.9			
ANNUAL MEAN	176		47.3		239	
HIGHEST ANNUAL MEAN					733	1941
LOWEST ANNUAL MEAN					22.8	1971
HIGHEST DAILY MEAN	9050	Jun 27	877	Jul 3	44200	Oct 18 1994
LOWEST DAILY MEAN	19	Sep 22	9.9	Sep 8	3.0	Aug 23 1956
ANNUAL SEVEN-DAY MINIMUM	20	Sep 20	11	Sep 3	3.2	Aug 19 1956
INSTANTANEOUS PEAK FLOW			1030	Jul 3	63000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			10.33	Jul 3	24.57	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	127200		34340		173200	
ANNUAL RUNOFF (CFSM)	.54		.15		.74	
ANNUAL RUNOFF (INCHES)	7.34		1.98		9.99	
10 PERCENT EXCEEDS	183		66		480	
50 PERCENT EXCEEDS	65		32		49	
90 PERCENT EXCEEDS	23		14		14	

e Estimated



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 mi^2.

WATER-DISCHARGE RECORDS

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jun 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s:

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

No peak greater than base discharge.

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

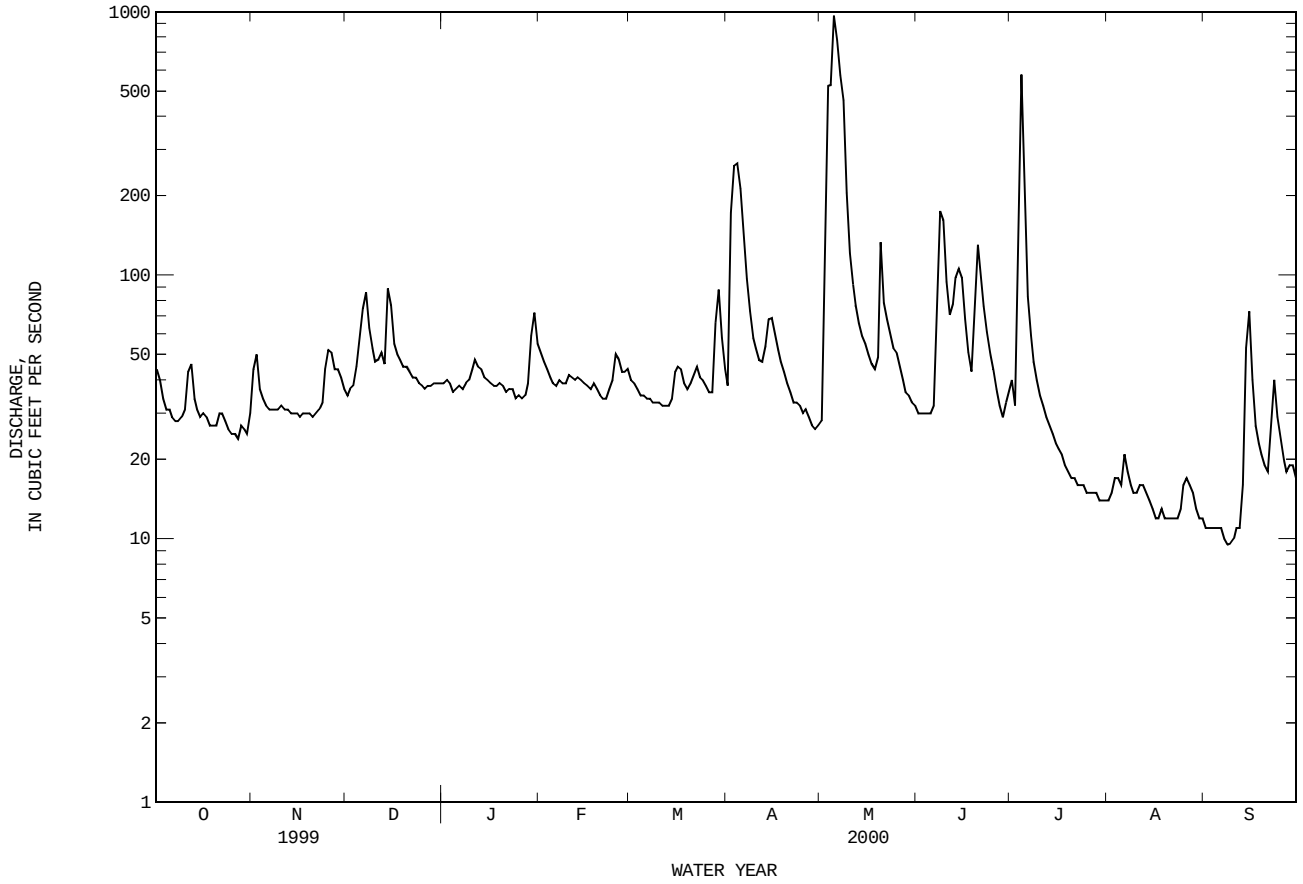
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	44	35	39	51	40	38	28	30	40	14	11
2	40	50	37	40	47	39	172	127	30	32	15	11
3	34	37	38	39	44	37	259	524	30	170	17	11
4	31	34	45	36	41	35	265	528	30	578	17	11
5	31	32	58	37	39	35	213	965	30	194	16	11
6	29	31	75	38	38	34	139	778	32	83	21	11
7	28	31	86	37	40	34	97	574	65	59	18	10
8	28	31	63	39	39	33	73	462	175	47	16	9.5
9	29	31	53	40	39	33	58	205	162	40	15	9.6
10	31	32	47	44	42	33	53	121	94	35	15	10
11	43	31	48	48	41	32	48	92	71	32	16	11
12	46	31	51	45	40	32	47	77	78	29	16	11
13	34	30	46	44	41	32	54	66	98	27	15	16
14	31	30	89	41	40	34	68	59	106	25	14	53
15	29	30	77	40	39	43	69	55	98	23	13	73
16	30	29	55	39	38	45	60	50	68	22	12	40
17	29	30	50	38	37	44	52	46	51	21	12	27
18	27	30	48	38	39	39	47	44	43	19	13	23
19	27	30	45	39	37	37	43	49	77	18	12	21
20	27	29	45	38	35	39	39	133	130	17	12	19
21	30	30	43	36	34	42	36	79	103	17	12	18
22	30	31	41	37	34	45	33	68	76	16	12	26
23	28	33	41	37	37	41	33	60	61	16	12	40
24	26	44	39	34	40	40	32	53	51	16	13	29
25	25	52	38	35	50	38	30	51	44	15	16	24
26	25	51	37	34	48	36	31	45	37	15	17	20
27	24	44	38	35	43	36	29	40	32	15	16	18
28	27	44	38	39	43	66	27	36	29	15	15	19
29	26	41	39	59	44	88	26	35	33	14	13	19
30	25	37	39	72	---	58	27	33	36	14	12	17
31	30	---	39	55	---	44	---	32	---	14	12	---
TOTAL	944	1060	1523	1272	1180	1264	2198	5515	2000	1678	449	629.1
MEAN	30.5	35.3	49.1	41.0	40.7	40.8	73.3	178	66.7	54.1	14.5	21.0
MAX	46	52	89	72	51	88	265	965	175	578	21	73
MIN	24	29	35	34	34	32	26	28	29	14	12	9.5
AC-FT	1870	2100	3020	2520	2340	2510	4360	10940	3970	3330	891	1250
CFSM	.08	.09	.13	.11	.10	.11	.19	.46	.17	.14	.04	.05
IN.	.09	.10	.15	.12	.11	.12	.21	.53	.19	.16	.04	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	342	329	398	559	517	470	330	302	354	141	44.0	60.6
MAX	2843	2892	1036	1857	1557	981	958	1330	1596	849	189	186
(WY)	1995	1999	1998	1998	1992	1992	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

08070200 EAST FORK SAN JACINTO RIVER NEAR NEW CANEY, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	68441		19712.1			
ANNUAL MEAN	188		53.9		320	
HIGHEST ANNUAL MEAN					660	1995
LOWEST ANNUAL MEAN					53.9	2000
HIGHEST DAILY MEAN	5980	Jun 28	965	May 5	46600	Oct 19 1994
LOWEST DAILY MEAN	24	Aug 29	9.5	Sep 8	9.5	Sep 8 2000
ANNUAL SEVEN-DAY MINIMUM	25	Aug 24	10	Sep 4	10	Oct 29 1990
INSTANTANEOUS PEAK FLOW			987	May 5	74100	Oct 19 1994
INSTANTANEOUS PEAK STAGE			9.53	May 5	33.00	Oct 19 1994
ANNUAL RUNOFF (AC-FT)	135800		39100		232100	
ANNUAL RUNOFF (CFSM)	.48		.14		.83	
ANNUAL RUNOFF (INCHES)	6.56		1.89		11.22	
10 PERCENT EXCEEDS	257		77		762	
50 PERCENT EXCEEDS	81		37		80	
90 PERCENT EXCEEDS	29		15		24	



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 Sep 1990, Jun 2000.
SEDIMENT DATA: Jun 2000.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Jun 1984 to Sep 1999.
WATER TEMPERATURE: Jun 1984 to Sep 1999.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
JUN												
29...	1125	35	201	7.1	27.0	75	24	6.8	85	70	100	50
AUG												
23...	1225	12	187	7.0	27.0	25	4.2	6.6	82	110	20	35

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)	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)
JUN												
29...	10	16	2.2	15	1	2.4	2.8	29	<.10	14	125	107
AUG												
23...	7	11	1.8	18	1	1.8	4.3	29	<.10	8.4	105	92

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	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)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JUN												
29...	15	<10	<.010	.225	<.020	.67	.32	.44	.091	.034	.021	.06
AUG												
23...	16	<10	<.010	.081	<.020	.46	.17	.38	.077	.019	.013	.04

DATE	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)	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)
JUN											
29...	8.3	7.3	1.10	<.100	12	<1.0	<2	75	<1.0	<1.0	E.49
AUG											
23...	3.9	3.4	<.100	<.100	2.0	<1.0	<2	56	<1.0	<1.0	.83

DATE	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)
JUN											
29...	<1.0	1.0	84	<1.0	67	<.2	<1.0	1.2	<2	<1.0	3.4
AUG											
23...	<1.0	2.3	32	<1.0	54	<.2	<1.0	1.4	<2	<1.0	2.9

08070200 EAST FORK SAN JACINTO RIVER NEAR NEW CANEY, TX--Continued

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

DATE	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)	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)
JUN											
29...	<1.0	<.0030	<.0020	<.002	E.003	<.0010	<.0020	<.0020	<.0030	<.0030	<.0040
AUG											
23...	<1.0	<.0030	<.0020	<.002	<.001	<.0010	<.0020	<.0020	<.0030	<.0030	<.0040

DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
JUN											
29...	<.0040	<.0020	<.0020	<.002	89.3	<.001	<.0170	<.0020	<.0040	<.0030	<.0030
AUG											
23...	<.0040	<.0020	<.0020	<.002	119	<.001	<.0170	<.0020	<.0040	<.0030	<.0030

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	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)
JUN											
29...	<.004	<.0020	<.005	<.002	<.004	<.0040	<.0030	<.0060	<.004	<.0040	<.0040
AUG											
23...	<.004	<.0020	<.005	<.002	<.004	<.0040	<.0030	<.0060	<.004	<.0040	<.0040

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROP-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)
JUN											
29...	<.0020	<.0180	<.0070	<.0040	<.0130	<.0030	<.0050	.0287	<.0070	<.0130	<.0020
AUG											
23...	<.0020	<.0180	<.0070	<.0040	<.0130	<.0030	<.0050	<.0100	<.0070	<.0130	<.0020

DATE	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)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUN											
29...	<.0010	<.0020	<.0020	89.3	<.0050	<.0060	350	350	.277	13	1.2
AUG											
23...	<.0010	<.0020	<.0020	110	<.0050	<.0060	350	360	.141	16	.52

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 mi^2.

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 Sep 1999. Biochemical data: Aug 1983 to Sep 1999. Pesticide data: Aug 1983 to Sep 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 Jun 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s:

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	24	21	24	25	22	21	16	22	21	13	8.5
2	22	20	21	24	24	21	40	124	28	20	17	8.1
3	21	18	22	24	24	21	49	301	27	22	18	9.0
4	21	18	28	24	24	21	54	95	27	25	18	10
5	20	18	85	23	24	20	37	416	30	21	17	9.8
6	20	18	37	24	24	20	29	160	50	21	13	9.5
7	20	18	27	24	23	20	26	57	46	21	12	9.2
8	20	18	24	24	25	20	27	37	34	19	14	8.3
9	20	18	24	26	25	19	27	32	32	17	16	9.4
10	39	19	27	25	23	20	23	28	39	13	15	10
11	27	19	24	24	23	22	21	26	38	12	14	9.1
12	20	19	28	23	22	24	25	22	57	12	15	17
13	18	19	44	23	22	21	38	21	57	13	14	14
14	18	19	33	23	22	20	29	21	37	12	15	16
15	17	18	28	22	23	20	24	20	31	12	15	21
16	17	19	26	22	23	21	22	18	29	12	15	17
17	17	19	25	22	23	21	21	18	33	11	13	14
18	17	19	25	22	23	27	20	20	54	10	12	13
19	17	18	25	22	24	27	19	20	37	9.7	12	12
20	20	19	25	22	23	29	18	30	31	9.5	12	12
21	19	19	25	22	23	28	17	53	32	9.3	12	12
22	18	19	25	21	23	28	17	33	27	9.0	13	14
23	18	74	24	21	25	29	15	27	24	8.7	16	14
24	18	53	24	21	31	27	16	24	24	8.4	17	13
25	18	31	24	21	26	25	15	23	21	8.1	15	12
26	18	26	24	21	24	25	15	22	20	8.3	12	12
27	18	23	24	22	26	24	15	21	20	8.1	11	12
28	17	22	24	47	24	22	15	22	22	9.9	10	12
29	17	21	24	36	23	22	15	22	28	8.6	10	11
30	18	21	24	28	---	22	15	22	23	8.7	11	11
31	26	---	24	26	---	21	---	21	---	10	9.9	---
TOTAL	619	686	865	753	694	709	725	1772	980	410.3	426.9	359.9
MEAN	20.0	22.9	27.9	24.3	23.9	22.9	24.2	57.2	32.7	13.2	13.8	12.0
MAX	39	74	85	47	31	29	54	416	57	25	18	21
MIN	17	18	21	21	22	19	15	16	20	8.1	9.9	8.1
AC-FT	1230	1360	1720	1490	1380	1410	1440	3510	1940	814	847	714
CFSM	.19	.22	.27	.23	.23	.22	.23	.54	.31	.13	.13	.11
IN.	.22	.24	.31	.27	.25	.25	.26	.63	.35	.15	.15	.13

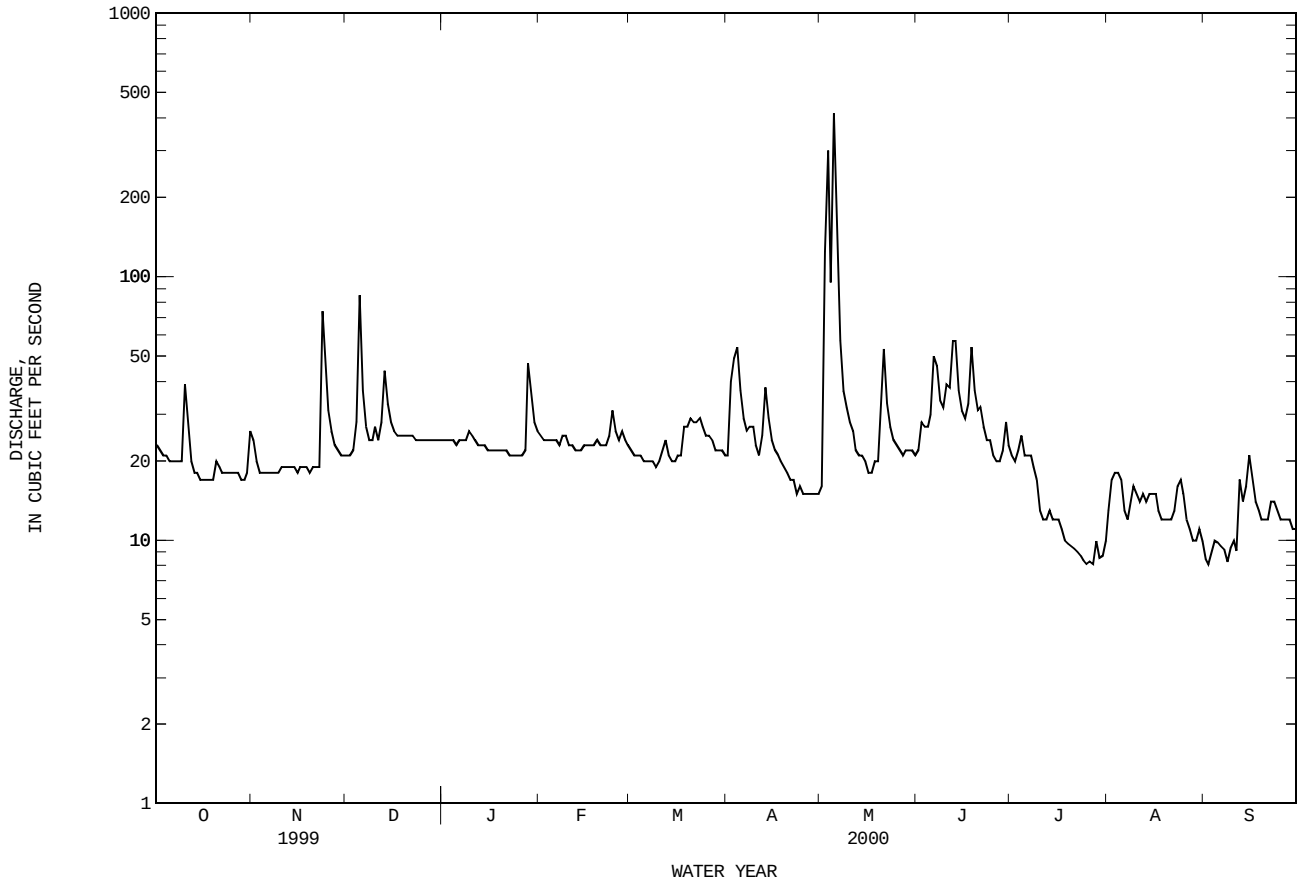
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000h, BY WATER YEAR (WY)

MEAN	69.1	86.8	85.9	122	121	87.3	107	99.5	93.4	37.8	27.6	38.2
MAX	895	853	277	497	368	245	606	542	843	190	262	296
(WY)	1995	1999	1977	1995	1961	1973	1945	1983	1973	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

08070500 CANEY CREEK NEAR SPLENDORA, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000h	
ANNUAL TOTAL	20893		9000.1			
ANNUAL MEAN	57.2		24.6		80.9	
HIGHEST ANNUAL MEAN					192	1995
LOWEST ANNUAL MEAN					15.9	1971
HIGHEST DAILY MEAN	2020	Jun 27	416	May 5	11100	Jun 14 1973
LOWEST DAILY MEAN	17	Oct 15	8.1	Jul 25	5.4	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	17	Oct 13	8.6	Jul 21	5.5	Sep 21 1956
INSTANTANEOUS PEAK FLOW			700	May 5	36000	Oct 17 1994
INSTANTANEOUS PEAK STAGE			8.60	May 5	a26.40	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	41440		17850		58610	
ANNUAL RUNOFF (CFSM)	.55		.23		.77	
ANNUAL RUNOFF (INCHES)	7.40		3.19		10.47	
10 PERCENT EXCEEDS	67		32		112	
50 PERCENT EXCEEDS	33		21		27	
90 PERCENT EXCEEDS	19		12		12	

a From floodmark.
h See PERIOD OF RECORD paragraph.



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 mi^2.

PERIOD OF RECORD.--Jan 1944 to Sep 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. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1895, occurred Oct 8, 1949. Flood in Nov 1940 reached a stage of 22.3 ft, discharge 24,700 ft^3/s, from information by local resident. Flood of Jun 12, 1986 reached a stage of 20.92 ft, discharge 15,700 ft^3/s.

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

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	46	25	25	36	26	18	16	16	13	13	11
2	24	31	26	25	34	25	85	265	13	12	14	11
3	22	24	31	25	34	25	158	502	12	22	14	11
4	21	22	40	25	34	24	139	179	11	106	13	11
5	21	22	51	24	32	24	74	397	12	38	18	12
6	20	22	83	23	30	23	45	220	15	25	15	11
7	20	22	59	23	30	23	34	97	22	21	13	10
8	20	22	35	24	31	23	32	51	16	19	15	10
9	20	22	32	28	36	25	34	37	14	18	15	10
10	23	22	32	36	33	26	31	29	18	17	15	10
11	49	22	40	29	30	25	25	25	26	16	15	13
12	32	22	33	26	31	26	27	24	23	16	13	14
13	23	23	53	25	29	28	43	21	23	15	13	20
14	21	22	69	25	28	24	52	20	20	15	e12	20
15	20	22	41	24	27	24	36	21	16	14	e12	19
16	20	22	32	23	26	29	29	19	14	14	11	17
17	20	22	29	22	26	29	27	17	13	14	11	15
18	20	22	28	23	26	27	26	16	15	14	11	12
19	20	22	29	23	25	34	23	15	64	14	11	11
20	21	22	29	23	25	30	22	21	30	14	11	11
21	25	23	28	22	24	27	21	36	20	13	11	11
22	22	23	29	21	23	30	19	44	20	13	11	12
23	21	29	28	21	27	27	19	24	15	13	11	12
24	20	63	26	21	35	28	19	19	13	13	11	14
25	19	65	26	21	42	24	19	16	11	13	15	15
26	19	36	25	21	32	22	18	15	10	13	14	12
27	19	31	25	22	29	22	17	14	10	13	13	13
28	19	28	25	28	33	21	17	14	11	13	12	12
29	19	26	25	75	27	21	17	14	11	13	12	12
30	20	25	25	52	---	19	16	15	11	13	11	11
31	23	---	25	39	---	19	---	16	---	13	11	---
TOTAL	694	825	1084	844	875	780	1142	2219	525	580	397	383
MEAN	22.4	27.5	35.0	27.2	30.2	25.2	38.1	71.6	17.5	18.7	12.8	12.8
MAX	49	65	83	75	42	34	158	502	64	106	18	20
MIN	19	22	25	21	23	19	16	14	10	12	11	10
AC-FT	1380	1640	2150	1670	1740	1550	2270	4400	1040	1150	787	760

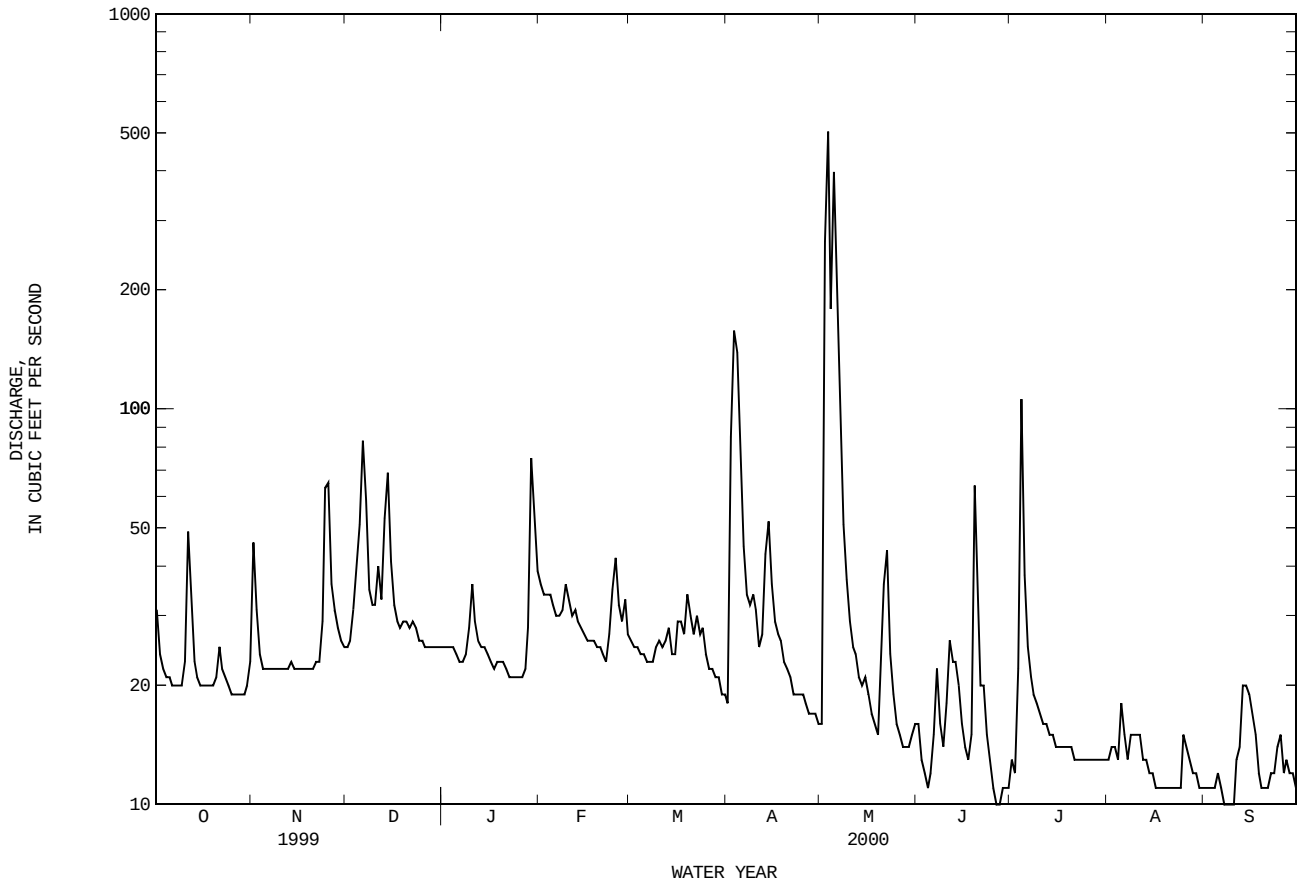
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000h, BY WATER YEAR (WY)

MEAN	62.8	71.8	74.2	110	112	78.1	97.8	89.2	78.3	38.5	23.4	34.6
MAX	908	850	333	629	449	337	488	319	799	271	129	342
(WY)	1950	1947	1975	1974	1961	1949	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

08071000 PEACH CREEK AT SPLENDORA, TX--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000h		
ANNUAL TOTAL	10348				
ANNUAL MEAN	28.3		72.2		
HIGHEST ANNUAL MEAN			213		1973
LOWEST ANNUAL MEAN			13.7		1956
HIGHEST DAILY MEAN	502	May 3	14400	Jun 14	1973
LOWEST DAILY MEAN	10	Jun 26	1.1	Sep 29	1956
ANNUAL SEVEN-DAY MINIMUM	11	Sep 4	1.2	Sep 25	1956
INSTANTANEOUS PEAK FLOW	649	May 3	28500	Oct 8	1949
INSTANTANEOUS PEAK STAGE	12.40	May 3	22.73	Oct 8	1949
ANNUAL RUNOFF (AC-FT)	20530		52280		
10 PERCENT EXCEEDS	36		124		
50 PERCENT EXCEEDS	22		24		
90 PERCENT EXCEEDS	12		8.3		

e Estimated
h see PERIOD OF RECORD paragraph.



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 mi^2.

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 (daily mean discharges).
Water-quality records.--Chemical data: Feb 1984 to Sep 1999. Biochemical data: Feb 1984 to Sep 1999. Pesticide data: Feb 1984 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s:

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

No peak greater than base discharge.

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

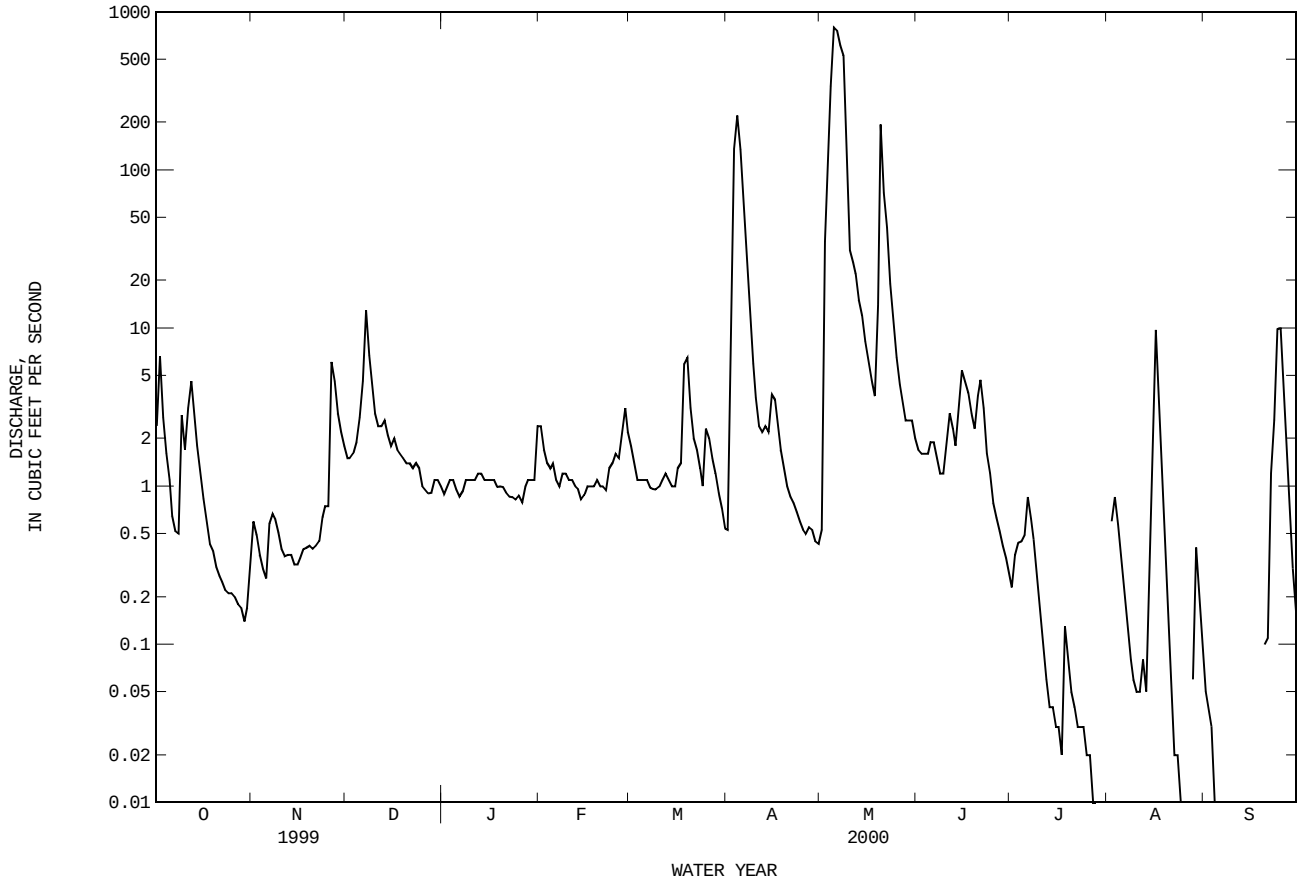
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	.60	1.5	.89	2.4	1.8	.53	.53	1.7	.23	.00	.05
2	6.6	.49	1.5	1.0	1.7	1.4	5.3	35	1.6	.37	.60	.04
3	2.7	.37	1.6	1.1	1.4	1.1	135	112	1.6	.44	.85	.03
4	1.6	.30	1.9	1.1	1.3	1.1	221	337	1.6	.45	.57	.01
5	1.1	.26	2.7	.95	1.4	1.1	134	799	1.9	.49	.32	.00
6	.65	.58	4.6	.86	1.1	1.1	67	760	1.9	.85	.20	.00
7	.52	.67	13	.93	1.0	.98	33	614	1.5	.62	.13	.00
8	.50	.62	6.7	1.1	1.2	.96	14	530	1.2	.46	.08	.00
9	2.8	.51	4.1	1.1	1.2	.95	5.9	116	1.2	.29	.06	.00
10	1.7	.40	2.9	1.1	1.1	.99	3.6	31	1.9	.17	.05	.00
11	3.1	.36	2.4	1.1	1.1	1.1	2.4	26	2.9	.10	.05	.00
12	4.6	.37	2.4	1.2	1.0	1.2	2.2	22	2.3	.06	.08	.00
13	2.8	.37	2.6	1.2	.96	1.1	2.4	15	1.8	.04	.05	.00
14	1.8	.32	2.1	1.1	.82	1.0	2.2	12	3.0	.04	.28	.00
15	1.2	.32	1.8	1.1	.88	1.0	3.8	8.2	5.4	.03	1.4	.00
16	.83	.35	2.0	1.1	1.0	1.3	3.5	6.2	4.6	.03	9.7	.00
17	.61	.40	1.7	1.1	1.0	1.4	2.4	4.7	3.9	.02	3.6	.00
18	.43	.41	1.6	.99	1.0	5.9	1.7	3.7	2.9	.13	.91	.00
19	.39	.42	1.5	1.0	1.1	6.5	1.3	14	2.3	.08	.31	.00
20	.31	.40	1.4	.99	1.0	3.1	1.0	194	3.7	.05	.10	.10
21	.27	.42	1.4	.91	1.0	2.0	.86	71	4.7	.04	.04	.11
22	.25	.45	1.3	.86	.94	1.7	.78	43	3.1	.03	.02	1.2
23	.22	.64	1.4	.85	1.3	1.3	.69	19	1.6	.03	.02	2.6
24	.21	.75	1.3	.82	1.4	1.0	.60	11	1.2	.03	.01	9.9
25	.21	.75	1.0	.87	1.6	2.3	.53	6.5	.78	.02	.00	10
26	.20	6.1	.95	.79	1.5	2.0	.50	4.4	.63	.02	.00	3.5
27	.18	4.6	.90	1.0	2.2	1.5	.55	3.3	.52	.01	.00	1.4
28	.17	2.9	.91	1.1	3.1	1.2	.53	2.6	.42	.01	.06	.62
29	.14	2.2	1.1	1.1	2.2	.91	.45	2.6	.35	.00	.41	.30
30	.17	1.8	1.1	1.1	---	.73	.43	2.6	.29	.00	.21	.16
31	.32	---	1.0	2.4	---	.54	---	2.0	---	.00	.10	---
TOTAL	38.98	29.13	72.36	32.81	38.90	50.26	648.15	3808.33	62.49	5.14	20.21	30.02
MEAN	1.26	.97	2.33	1.06	1.34	1.62	21.6	123	2.08	.17	.65	1.00
MAX	6.6	6.1	13	2.4	3.1	6.5	221	799	5.4	.85	9.7	10
MIN	.14	.26	.90	.79	.82	.54	.43	.53	.29	.00	.00	.00
AC-FT	77	58	144	65	77	100	1290	7550	124	10	40	60
CFSM	.01	.00	.01	.00	.01	.01	.10	.56	.01	.00	.00	.00
IN.	.01	.00	.01	.01	.01	.01	.11	.65	.01	.00	.00	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	328	164	254	255	288	320	205	225	346	51.5	9.97	42.2
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

08071280 LUCE BAYOU ABOVE LAKE HOUSTON NEAR HUFFMAN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	13480.49		4836.78			
ANNUAL MEAN	36.9		13.2		210	
HIGHEST ANNUAL MEAN					453	1995
LOWEST ANNUAL MEAN					13.2	2000
HIGHEST DAILY MEAN	1160	Apr 8	799	May 5	23000	Oct 19 1994
LOWEST DAILY MEAN	.07	Aug 31	.00	Jul 29	.00	Jul 16 1984
ANNUAL SEVEN-DAY MINIMUM	.14	Sep 23	.00	Sep 5	.00	Jul 16 1984
INSTANTANEOUS PEAK FLOW			845	May 5	25900	Oct 18 1994
INSTANTANEOUS PEAK STAGE			18.77	May 5	35.08	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	26740		9590		152100	
ANNUAL RUNOFF (CFSM)	.17		.061		.96	
ANNUAL RUNOFF (INCHES)	2.30		.83		13.09	
10 PERCENT EXCEEDS	66		6.0		382	
50 PERCENT EXCEEDS	4.0		1.0		7.7	
90 PERCENT EXCEEDS	.27		.03		.21	



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 mi^2.

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.--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. 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, 154,900 acre-ft, May 20, gage height, 46.18 ft; minimum contents, 97,280 acre-ft, Nov 22, gage height, 40.74 ft.

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

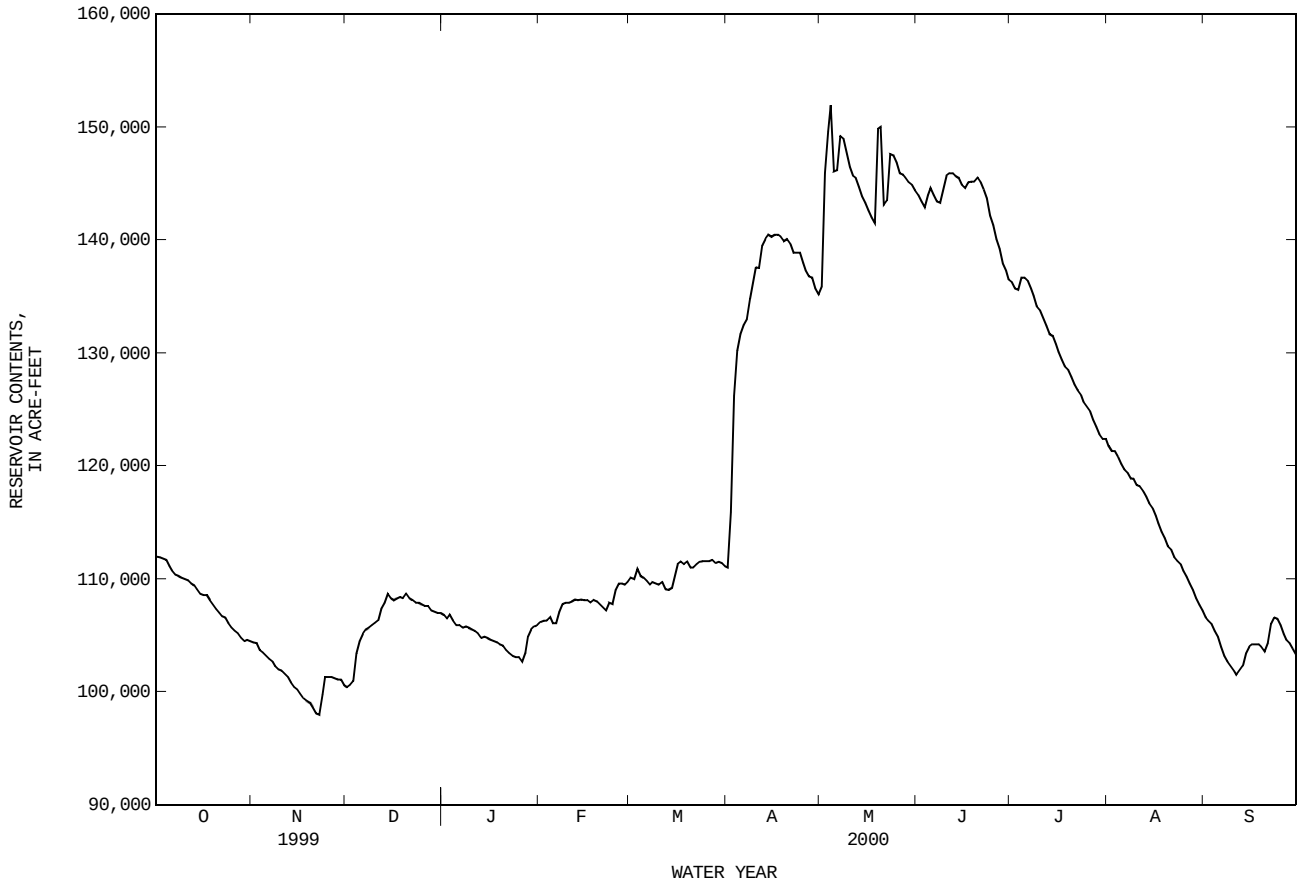
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112000	104400	100400	106800	106200	110100	111000	135900	144000	136300	121800	106600
2	111900	104300	100600	106500	106300	110000	115900	145900	143400	135700	121300	106300
3	111800	103700	100900	106800	106300	110900	126200	149600	142900	135600	121300	106000
4	111700	103500	103400	106300	106600	110300	130200	151900	144000	136700	120800	105400
5	111100	103200	104500	105900	106100	110100	131700	146100	144600	136700	120200	104900
6	110700	102900	105100	105900	106100	109800	132500	146200	144000	136400	119700	104000
7	110400	102700	105500	105700	107100	109500	133000	149200	143400	135700	119400	103200
8	110300	102300	105700	105800	107800	109700	134800	149000	143300	135100	118900	102700
9	110100	102000	105900	105700	107900	109600	136400	147700	144500	134100	118900	102300
10	110000	101900	106100	105500	107900	109500	137600	146500	145700	133800	118300	101900
11	109900	101600	106300	105400	108000	109700	137500	145700	145900	133100	118200	101500
12	109600	101300	107400	105200	108200	109100	139500	145500	145900	132400	117800	101900
13	109400	100800	107900	104800	108100	109000	140100	144700	145700	131700	117300	102300
14	109100	100400	108700	104900	108200	109200	140500	143900	145500	131500	116700	103400
15	108700	100200	108300	104800	108100	110400	140300	143300	144900	130800	116300	104000
16	108600	99840	108100	104600	108100	111300	140500	142600	144600	130100	115600	e104200
17	108600	99470	108300	104500	107900	111500	140500	142000	145100	129400	114900	e104200
18	108100	99210	108400	104400	108100	111300	140300	141500	145200	128800	114200	104200
19	107700	99030	108300	104200	108000	111500	139900	149800	145200	128500	113600	104000
20	107300	98590	108700	104100	107700	111000	140100	150000	145500	127900	112900	103600
21	107000	98070	108300	103700	107500	111000	139700	143100	145200	127200	112600	104300
22	106700	97980	108100	103400	107200	111300	138900	143500	144500	126700	111900	106000
23	106600	99740	107900	103200	107900	111500	138900	147600	143700	126300	111600	106600
24	106100	101300	107900	103100	107800	111600	138900	147500	142200	125700	111300	106500
25	105700	101300	107700	103100	109000	111600	138000	146900	141300	125300	110700	105900
26	105400	101300	107600	102700	109600	111600	137300	145900	140100	124900	110200	105100
27	105200	101200	107600	103500	109600	111700	136800	145800	139200	124100	109600	104600
28	104800	101100	107200	104900	109500	111400	136700	145500	137900	123500	109000	104300
29	104500	101100	107100	105500	109700	111500	135700	145100	137300	122800	108300	103800
30	104600	100600	107000	105800	---	111400	135200	144900	136500	122400	107700	103300
31	104500	---	107000	105900	---	111100	---	144400	---	122400	107200	---
MAX	112000	104400	108700	106800	109700	111700	140500	151900	145900	136700	121800	106600
MIN	104500	97980	100400	102700	106100	109000	111000	135900	136500	122400	107200	101500
(+)	41.54	41.11	41.81	41.69	42.10	42.24	44.59	45.31	44.69	43.38	41.83	41.41
(@)	-7800	-3900	+6400	-1100	+3800	+1400	+24100	+9200	-7900	-14100	-15200	-3900

CAL YR 1999 MAX 151900 MIN 97980 (@) -33400
WTR YR 2000 MAX 151900 MIN 97980 (@) -9000

e Estimated

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

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Jul 1961 to Apr 1964, Dec 1969 to current year.
BIOCHEMICAL DATA: Aug 1983 to current year.
PESTICIDE DATA: May 1968 to Aug 1972, Aug 1983 to current year.

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

295516095080801 - Lk Houston Site AC

DATE	TIME	RESER-VOIR STORAGE (AC-FT) (00054)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
FEB												
15...	0945	108000	1.00	325	7.8	16.0	350	45	9.4	94	180	190
15...	0947	--	10.0	325	7.7	15.5	--	--	9.4	93	--	--
15...	0949	--	20.0	325	7.6	14.5	--	--	9.3	90	--	--
15...	0951	--	30.0	330	7.5	14.0	--	--	9.3	89	--	--
15...	0953	--	40.0	330	7.5	13.5	800	81	9.3	88	--	--
JUN												
27...	0930	140000	1.00	190	8.4	30.5	170	44	6.7	89	K1	K1
27...	0934	--	10.0	190	7.5	29.0	--	--	6.6	86	--	--
27...	0936	--	20.0	190	7.5	28.5	--	--	6.6	85	--	--
27...	0938	--	30.0	190	7.3	28.0	--	--	6.5	83	--	--
27...	0940	--	41.7	190	7.3	28.0	170	51	6.5	83	--	--
AUG												
22...	1025	111000	1.00	230	7.6	29.5	80	39	6.0	78	K1	K12
22...	1027	--	10.0	230	7.5	29.5	--	--	5.5	71	--	--
22...	1029	--	20.0	230	7.4	29.0	--	--	5.3	68	--	--
22...	1031	--	30.0	230	7.3	29.0	--	--	4.8	62	--	--
22...	1033	--	40.0	230	7.2	29.0	80	42	3.9	50	--	--

295516095080801 - Lk Houston Site AC

DATE	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)	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 CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
FEB												
15...	50	16.0	2.33	41.3	3	62	3.9	--	67	12.7	47.6	.2
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
27...	38	12.2	1.80	19.8	1	50	3.4	39	--	7.2	24.0	.1
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	44	14.4	2.03	25.0	2	53	3.8	49	--	8.2	30.0	.2
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

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

295516095080801 - Lk Houston Site AC

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER-ABLE (MG/L) (00540)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
FEB												
15...	11.1	190	178	26	<1	--	<.010	.544	.024	1.1	.57	.26
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	263	22	241	<.010	.548	.120	2.5	1.8	.24
JUN												
27...	7.5	115	101	<10	<10	--	<.010	.203	<.020	.82	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	11	<10	--	<.010	.371	<.020	.94	--	--
AUG												
22...	11.9	135	126	21	<10	--	<.010	.062	<.020	.64	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	26	<10	--	<.010	.061	<.020	.64	--	--

295516095080801 - Lk Houston Site AC

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	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)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
FEB											
15...	.28	.59	.214	.127	.094	.288	6.4	4.5	1.9	<.1	255
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.36	1.9	.892	.039	.031	.095	8.0	4.2	.2	<.1	27
JUN											
27...	.27	.62	.245	.158	.133	.408	7.9	6.7	21.1	2.2	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.29	.56	.256	.167	.149	.457	7.9	6.2	.9	<.1	--
AUG											
22...	.27	.58	.236	.138	.120	.368	7.0	5.6	1.7	.1	10
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.58	.58	.241	.129	.119	.365	7.4	5.8	2.6	<.1	--

295516095080801 - Lk Houston Site AC

DATE	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)
FEB											
15...	4	<1	<2.0	73	<1	<1.0	<1.0	<1	2	<10	<1
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	11	<1	E1.9	50	<1	<1.0	E.7	<1	3	10	<1
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	2	<1	2.7	64	<1	<1.0	E.7	<1	3	<10	<1
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

295516095080801 - Lk Houston Site AC

DATE	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)
FEB											
15...	7	<.2	1	1	<2.4	<1	4	<1	<.003	<.002	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	2	<.2	1	1	<2.4	<1	3	<1	<.003	<.002	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	8	<.2	2	1	<2.4	<1	3	<1	<.003	<.002	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

295516095080801 - Lk Houston Site AC

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
FEB											
15...	<.002	.192	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.002	.883	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.002	.732	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

295516095080801 - Lk Houston Site AC

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
FEB											
15...	E.029	.020	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	E.091	.108	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	E.10	.020	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

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

295516095080801 - Lk Houston Site AC

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
FEB											
15...	.005	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.009
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	.054	<.004	.017	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.008
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	.038	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.009
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

295516095080801 - Lk Houston Site AC

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
FEB											
15...	<.007	<.004	<.013	.011	.131	.039	<.007	<.013	<.002	<.001	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.007	<.004	<.013	.020	.043	.068	<.007	<.013	<.002	<.001	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.007	<.004	<.013	.018	<.005	.082	<.007	<.013	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB												
15...	1312	1.00	265	8.9	19.5	120	35	9.1	98	K8	24	41
15...	1314	12.5	275	8.1	18.5	110	36	8.6	91	--	--	--
JUN												
27...	1205	1.00	200	8.0	32.5	110	47	6.6	91	K2	K4	40
27...	1207	10.0	200	7.3	31.5	--	--	6.0	81	--	--	--
27...	1209	18.0	205	7.2	31.5	190	56	6.0	81	--	--	--
AUG												
22...	1248	1.00	280	7.9	31.0	40	20	6.0	80	K1	K12	49
22...	1250	15.0	310	7.5	30.5	40	31	4.0	53	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

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

300158095074601 - Lk Houston 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 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)
FEB												
15...	13.1	2.12	32.0	2	61	2.8	--	58	9.1	40.0	.1	8.0
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
27...	12.9	1.97	20.4	1	50	3.3	42	--	6.8	25.4	.1	8.9
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	15.6	2.33	33.4	2	58	3.9	62	--	8.9	38.0	.2	12.4
22...	--	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER- ABLE (MG/L) (00540)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
FEB											
15...	144	143	29	1	28	<.010	.226	<.020	1.1	--	--
15...	--	--	31	<1	--	<.010	.259	.052	1.3	.99	.26
JUN											
27...	125	105	19	<10	--	<.010	<.050	<.020	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	37	<10	--	<.010	.088	.157	.95	.70	.31
AUG											
22...	158	152	22	<10	--	<.010	<.050	<.020	--	--	--
22...	--	--	39	<10	--	<.010	<.050	.021	--	.63	.34

300158095074601 - Lk Houston Site EC

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	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)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
FEB											
15...	.25	.87	.192	.083	.068	.209	6.7	3.7	5.5	.2	47
15...	.31	1.0	.314	.076	.062	.190	9.3	3.8	2.5	<.1	41
JUN											
27...	.27	.59	.208	.104	.086	.264	9.8	7.1	19.0	1.0	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.47	.86	.249	.120	.100	.307	9.6	6.7	4.9	<.1	--
AUG											
22...	.32	.66	.200	.110	.104	.319	8.4	6.0	<.1	.2	23
22...	.36	.65	.271	.192	.165	.506	8.8	5.8	<.1	<.1	--

300158095074601 - Lk Houston Site EC

DATE	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)
FEB											
15...	3	<1	<2.0	52	<1	<1.0	<1.0	<1	1	30	<1
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	70	<1	2.5	51	<1	<1.0	<.8	<1	2	40	<1
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	2	<1	2.5	60	<1	<1.0	E.7	<1	2	<10	<1
22...	--	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

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

300158095074601 - Lk Houston Site EC

DATE	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)
FEB											
15...	<1	<.2	<1	<1	<2.4	<1	2	<1	<.003	<.002	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	9	<.2	1	1	<2.4	<1	3	<1	<.003	<.002	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<1	<.2	2	1	<2.4	<1	<1	<1	<.003	<.002	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
FEB											
15...	<.002	.349	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.002	.534	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.002	.454	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
FEB											
15...	E.019	.029	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	E.056	.067	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	E.063	.011	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22...	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
FEB											
15...	E.004	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.007
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	.029	<.007	.017	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.008
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	.015	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.007
22...	--	--	--	--	--	--	--	--	--	--	--

300158095074601 - Lk Houston Site EC

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
FEB											
15...	<.007	<.004	<.013	.010	.172	.011	<.007	<.013	<.002	<.001	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.007	<.004	<.013	.012	.022	.067	<.007	<.013	<.002	<.001	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.007	<.004	<.013	<.003	.025	.067	<.007	<.013	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

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-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB												
15...	1212	1.00	490	8.9	21.0	250	47	9.7	108	42	38	64
15...	1214	5.50	490	8.8	21.0	250	45	9.5	106	--	--	--
JUN												
27...	1100	1.00	300	9.1	33.0	90	34	6.4	89	K2	K4	51
27...	1102	10.0	275	8.7	32.0	160	44	6.4	87	--	--	--
AUG												
22...	1130	1.00	465	8.9	31.0	40	3.5	5.3	71	K2	K4	64
22...	1132	12.0	435	8.6	30.5	50	24	4.0	53	--	--	--

300209095091201 - Lk Houston Site FC

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 CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
FEB												
15...	20.5	3.12	64.8	4	66	6.4	--	120	18.6	68.8	.3	8.3
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
27...	16.5	2.46	32.7	2	55	4.5	61	--	9.8	36.8	.2	7.7
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	20.6	3.00	66.7	4	67	6.0	96	--	15.2	70.0	.9	13.0
22...	--	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER-ABLE (MG/L) (00540)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
FEB												
15...	274	276	61	8	53	2.66	.039	2.70	<.020	4.1	--	--
15...	--	--	61	8	53	2.58	.038	2.62	<.020	3.8	--	--
JUN												
27...	169	148	31	<10	--	--	<.010	<.050	<.020	--	--	--
27...	--	--	44	<10	--	--	<.010	<.050	<.020	--	--	--
AUG												
22...	265	255	17	<10	--	--	<.010	<.050	.088	--	1.1	.38
22...	--	--	44	<10	--	--	<.010	1.20	<.020	2.2	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

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

300209095091201 - Lk Houston Site FC

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	SEDIMENT, SUSPENDED (MG/L) (80154)
FEB											
15...	.44	1.4	.804	.624	.572	1.75	10	5.2	9.4	.4	85
15...	.44	1.2	.821	.696	.589	1.81	8.7	5.2	7.3	.3	76
JUN											
27...	.40	.98	.416	.243	.221	.678	11	7.5	28.7	.9	--
27...	.45	1.0	.416	.271	.223	.684	12	7.0	7.3	E.3	--
AUG											
22...	.47	1.1	.689	.567	.461	1.41	12	7.5	1.1	.9	31
22...	.55	1.0	.584	.487	.056	.172	9.7	6.2	<.1	<.1	--

300209095091201 - Lk Houston Site FC

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
FEB											
15...	6	<1	E2.0	64	<1	<1.0	<1.0	<1	2	<10	<1
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	13	<1	3.4	56	<1	<1.0	E.5	<1	2	10	<1
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	5	<1	5.9	60	<1	<1.0	<.8	<1	2	<10	<1
22...	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)
FEB											
15...	3	<.2	3	1	<2.4	<1	8	<1	<.003	<.002	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	1	<.2	2	1	<2.4	<1	3	<1	<.003	<.002	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<1	<.2	4	2	<2.4	<1	<1	<1	<.003	<.002	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
FEB											
15...	<.002	1.62	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.002	.566	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.002	.498	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
FEB											
15...	E.050	.123	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	E.055	.100	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	E.062	.028	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22...	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
FEB											
15...	.006	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.016
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	.028	<.004	.015	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.012
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	.013	<.004	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	E.008
22...	--	--	--	--	--	--	--	--	--	--	--

300209095091201 - Lk Houston Site FC

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
FEB											
15...	<.007	<.004	<.013	.045	.911	<.010	<.007	<.013	<.002	<.001	<.002
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	<.007	<.004	<.013	<.017	.021	.115	<.007	<.013	<.002	<.001	<.002
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	<.007	<.004	<.100	<.018	.022	.061	<.007	<.013	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--

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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 mi^2.

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 Sep 1972. Biochemical data: Feb 1970 to Sep 1972. Pesticide data: May 1971 to Sep 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 ft^3/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, 5.94 ft, May 20; minimum gage height, -1.82 ft, Jan 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.06	1.47	2.46	.67	3.06	2.16	1.96	-.02	2.39	.86	2.64	.94
2	3.20	1.52	1.57	-.25	4.54	2.29	3.12	.82	2.28	.54	3.24	1.07
3	3.32	1.36	2.96	-.13	4.80	3.28	2.57	.54	2.13	.20	3.23	1.10
4	3.08	1.28	3.18	1.68	4.76	2.81	1.63	-1.82	1.80	-.51	2.38	.31
5	2.96	1.19	2.96	1.69	4.56	.72	2.20	-.11	1.94	-.05	2.97	1.31
6	3.11	1.30	3.05	1.53	2.95	.23	2.79	1.10	2.29	.46	3.18	1.98
7	3.49	1.85	2.67	.85	3.59	1.62	2.77	1.26	2.14	.53	3.73	2.31
8	3.46	2.08	2.64	.97	3.73	2.06	2.93	.86	2.01	.10	3.70	2.42
9	3.40	1.87	2.81	1.17	3.67	.98	2.56	.64	1.91	.47	3.21	2.08
10	2.96	1.37	2.83	1.23	2.48	-.01	2.24	.48	2.72	.88	3.61	2.00
11	2.72	.90	2.85	1.07	3.13	1.67	1.98	.42	2.72	1.30	3.37	.49
12	2.83	1.26	2.77	.80	3.63	.87	1.95	.76	2.50	.99	2.36	-.39
13	3.06	1.23	2.71	1.24	1.68	-.86	2.09	.55	4.18	1.78	2.79	.97
14	2.76	1.12	2.78	.95	1.92	.32	2.47	.28	4.47	1.62	3.12	1.02
15	2.81	1.45	2.38	.55	1.36	-.73	2.98	1.57	3.35	1.31	3.70	1.71
16	3.00	1.44	2.57	1.37	2.14	-.09	2.50	1.07	3.32	1.32	2.51	.73
17	2.77	.48	2.92	1.80	2.73	1.27	2.44	.50	2.90	.97	2.11	.60
18	2.00	.65	3.11	1.93	3.14	1.08	2.68	.30	2.88	.73	2.48	.83
19	1.71	.41	3.14	1.74	3.03	.70	3.39	.70	2.89	-.04	2.39	-.48
20	1.71	.11	2.53	1.06	2.70	.88	3.17	-.05	2.97	.94	2.86	.27
21	2.40	1.09	3.12	1.35	2.31	.24	3.41	1.07	3.34	1.44	3.48	2.18
22	2.44	.73	3.65	1.98	2.30	-.37	3.68	1.72	3.91	2.07	2.95	1.74
23	2.17	.30	3.25	1.15	2.25	.00	3.42	.68	3.96	1.52	2.75	1.16
24	2.70	.80	2.39	-.06	2.14	-.61	1.91	-.12	3.57	1.16	2.32	.62
25	2.58	.58	2.38	-.39	1.48	-.32	2.12	.64	3.93	2.33	2.10	.41
26	2.55	.65	2.21	.64	1.66	-.36	2.11	.33	3.89	2.00	1.95	.12
27	2.47	.65	2.53	.80	1.27	-.67	3.07	1.56	2.47	.52	1.97	.33
28	2.57	.81	2.65	.77	.82	-.62	2.04	-.06	3.00	1.08	2.63	.60
29	3.14	1.59	2.46	.60	1.22	.08	.93	-.88	2.98	1.58	2.68	.75
30	3.39	1.02	2.43	.97	1.75	.44	1.44	-.25	---	---	1.88	.15
31	2.81	.68	---	---	1.50	-.01	2.41	.58	---	---	2.65	.78
MONTH	3.49	.11	3.65	-.39	4.80	-.86	3.68	-1.82	4.47	-.51	3.73	-.48

08072050 SAN JACINTO RIVER NEAR SHELDON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.84	1.46	3.63	1.99	3.03	.90	2.64	.43	2.49	.30	2.11	.51
2	2.37	.75	3.32	1.66	2.85	.66	2.79	.23	2.38	.63	2.03	.45
3	2.00	.39	3.22	1.27	2.60	.52	2.93	.71	2.44	.83	1.76	.04
4	.76	-.88	3.54	1.56	2.68	.49	3.01	.74	2.33	.86	1.50	.30
5	2.07	-.03	4.50	2.38	2.18	.21	2.88	1.06	2.10	.95	1.96	.52
6	2.42	.73	3.70	2.44	2.03	-.13	2.76	.89	2.12	.76	2.52	.59
7	2.44	.49	3.58	1.32	2.53	.57	2.38	.79	2.14	.77	3.06	1.36
8	1.86	-.31	3.45	1.27	3.48	1.55	2.25	.94	2.76	1.02	2.79	1.36
9	2.88	.00	3.26	1.49	3.51	1.64	2.39	.90	2.50	.98	3.07	1.32
10	3.43	1.44	3.03	1.00	3.45	2.13	2.51	.93	2.42	.71	3.09	1.62
11	2.97	1.10	3.21	1.51	3.20	2.01	2.43	.69	2.21	.26	2.76	1.11
12	2.19	.49	3.24	1.88	2.88	1.24	2.30	.54	2.08	.22	2.81	1.15
13	1.93	.25	2.46	1.08	2.57	.91	2.03	.31	2.26	.22	2.99	1.61
14	2.46	.26	2.52	1.15	3.13	1.19	1.86	.02	2.94	.84	2.78	1.22
15	2.76	1.22	2.77	1.31	2.80	1.08	1.72	-.24	2.75	1.22	2.66	.97
16	2.87	1.49	2.98	1.42	3.25	1.32	2.20	-.02	2.05	.55	2.83	1.46
17	2.20	.97	3.52	1.54	3.64	1.60	2.30	.25	2.16	.35	2.93	1.30
18	2.32	.79	3.91	1.79	3.28	1.33	2.39	.31	2.08	.74	2.92	1.46
19	2.83	.79	3.33	1.65	3.17	1.18	1.93	.30	1.78	.55	3.08	1.65
20	2.80	1.26	5.94	3.32	3.22	1.29	2.08	.27	1.96	.84	3.16	1.18
21	1.55	.04	4.00	2.58	2.89	1.22	1.98	.33	1.91	.86	2.98	1.14
22	2.90	.12	2.92	1.28	2.61	.81	1.90	.57	2.12	.68	3.43	1.19
23	3.55	1.45	2.77	.73	2.44	.81	2.07	.80	2.61	.86	3.15	1.38
24	3.10	1.12	2.77	1.18	2.48	1.25	2.06	.62	2.49	.55	3.18	1.07
25	2.35	.26	3.16	1.20	2.75	1.20	2.32	.86	2.40	.51	1.07	-.19
26	2.56	.73	3.41	2.05	2.43	1.08	2.41	.65	2.42	.36	2.18	-.56
27	2.77	.79	3.00	2.08	2.21	.95	2.34	.48	2.60	.50	2.32	.70
28	2.01	.60	2.54	.82	2.37	.71	2.47	.49	2.50	.78	2.40	.95
29	2.54	.76	2.20	.92	2.38	.51	2.64	.38	2.31	.57	2.82	1.16
30	3.83	2.14	2.15	.69	2.55	.25	2.44	.41	1.80	.50	2.82	1.04
31	---	---	2.51	.60	---	---	2.70	.23	2.11	.28	---	---
MONTH	3.83	-.88	5.94	.60	3.64	-.13	3.01	-.24	2.94	.22	3.43	-.56
YEAR	5.94	-1.82										

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 mi^2.

PERIOD OF RECORD.--Jul 1977 to current year.
Water-quality records.--Chemical data: Jun 1978 to Sep 1981. Biochemical data: Jun 1978 to Sep 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 Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,150 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0530	1,230	30.02	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	6.4	1.6	2.1	8.1	2.8	1.7	4.5	2.8	2.1	48	1.4
2	8.6	11	1.6	2.2	8.6	2.2	461	115	3.1	1.9	26	1.7
3	5.8	14	1.9	2.7	6.2	2.0	216	70	5.6	2.0	12	1.7
4	5.5	8.4	42	3.2	5.0	1.9	109	54	2.4	2.7	11	1.3
5	5.6	4.9	17	2.6	4.2	1.8	51	105	2.1	3.8	7.2	1.8
6	5.8	3.4	5.6	2.5	4.0	2.0	31	41	1.6	2.1	4.7	1.9
7	7.1	2.2	3.1	2.6	46	1.9	13	14	1.4	2.3	3.2	2.4
8	5.8	2.2	2.1	13	29	1.8	14	7.3	1.4	2.5	2.6	2.4
9	6.0	2.0	e2.0	6.2	9.0	1.8	5.7	4.3	8.2	2.5	2.4	2.4
10	6.4	1.9	1.9	3.4	3.3	2.2	3.1	2.9	64	2.2	1.6	2.9
11	5.6	1.9	2.5	2.4	2.0	2.0	2.1	2.4	57	2.0	1.5	4.1
12	6.2	1.9	4.9	2.4	1.9	2.1	306	2.2	31	1.8	1.8	5.5
13	6.5	1.8	3.7	2.5	1.6	2.0	152	2.5	19	2.1	1.8	9.8
14	6.5	1.9	e2.4	2.4	1.7	7.7	52	2.1	8.5	2.0	3.6	36
15	6.6	2.0	2.3	2.5	1.8	15	21	2.0	3.9	4.1	3.5	70
16	10	1.9	2.3	2.8	2.2	4.5	9.7	1.8	2.3	15	2.4	10
17	15	1.7	2.2	2.6	2.0	2.1	5.3	1.6	44	17	1.9	4.1
18	13	1.9	2.1	3.1	2.3	1.7	3.3	1.8	29	13	1.8	3.7
19	25	1.9	2.2	3.0	1.9	1.9	2.6	1.8	9.0	17	1.7	3.1
20	21	1.6	2.8	3.0	1.8	2.0	2.1	267	4.9	19	1.6	2.5
21	18	1.6	3.8	3.2	2.6	1.8	1.8	118	3.1	21	1.6	2.7
22	9.6	2.4	2.7	3.5	1.9	1.8	1.9	45	2.3	26	1.6	9.3
23	6.1	17	2.6	4.0	54	1.7	2.0	22	2.3	15	1.8	6.1
24	5.8	5.2	2.6	4.2	24	1.7	1.7	12	2.4	9.7	1.7	3.0
25	4.8	4.9	2.4	3.9	8.6	1.9	1.6	8.6	2.5	7.2	1.6	3.0
26	4.4	2.5	1.9	4.0	3.7	2.0	1.5	5.7	3.0	16	1.3	2.4
27	5.5	2.0	2.1	26	2.5	2.2	1.4	4.7	7.6	7.4	2.0	2.0
28	4.1	1.8	2.1	29	2.4	1.9	1.5	6.1	5.6	1.8	2.0	1.8
29	5.1	1.8	2.1	15	2.7	1.9	1.5	6.3	3.6	2.0	1.9	2.0
30	11	1.7	2.1	11	---	1.8	1.4	4.9	2.6	4.1	1.5	1.5
31	8.6	---	2.4	8.2	---	1.8	---	3.2	---	7.6	1.5	---
TOTAL	264.9	115.8	133.0	179.2	245.0	81.9	1477.9	939.7	336.2	234.9	158.8	202.5
MEAN	8.55	3.86	4.29	5.78	8.45	2.64	49.3	30.3	11.2	7.58	5.12	6.75
MAX	25	17	42	29	54	15	461	267	64	26	48	70
MIN	4.1	1.6	1.6	2.1	1.6	1.7	1.4	1.6	1.4	1.8	1.3	1.3
AC-FT	525	230	264	355	486	162	2930	1860	667	466	315	402

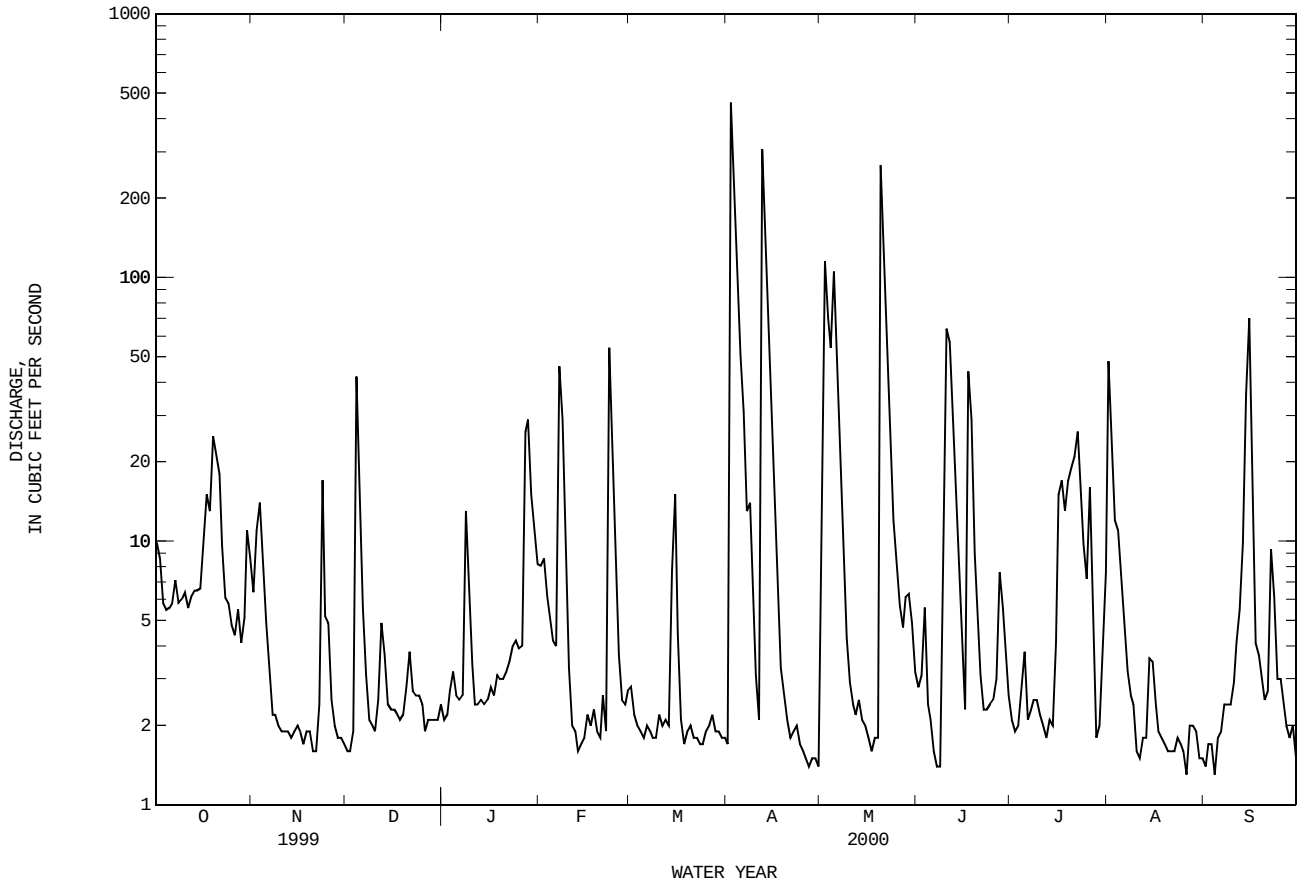
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	50.8	54.6	59.8	63.4	71.9	36.9	47.1	60.3	63.6	24.8	24.4	48.3
MAX	236	223	376	224	356	129	330	173	292	136	76.7	320
(WY)	1995	1983	1992	1979	1992	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	4635.2		4369.8			
ANNUAL MEAN	12.7		11.9		50.5	
HIGHEST ANNUAL MEAN					137	1992
LOWEST ANNUAL MEAN					11.9	2000
HIGHEST DAILY MEAN	378	Mar 19	461	Apr 2	2810	Feb 21 1994
LOWEST DAILY MEAN	1.6	Mar 17	1.3	Aug 26	.29	May 21 1995
ANNUAL SEVEN-DAY MINIMUM	1.8	Nov 27	1.5	Apr 24	.34	Dec 23 1984
INSTANTANEOUS PEAK FLOW			1230	Apr 2	3780	Feb 21 1994
INSTANTANEOUS PEAK STAGE			30.02	Apr 2	38.85	Feb 21 1994
ANNUAL RUNOFF (AC-FT)	9190		8670		36560	
10 PERCENT EXCEEDS	24		21		102	
50 PERCENT EXCEEDS	6.5		2.7		7.6	
90 PERCENT EXCEEDS	2.2		1.7		1.6	

e Estimated

08072300 BUFFALO BAYOU NEAR KATY, TX--Continued



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 mi^2. Prior to Aug 1977, 134 mi^2. 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: Jun 1978 to Sep 1981. Biochemical data: Jun 1978 to Sep 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 discharges. 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, 6,160 acre-ft, Apr 4, elevation, 87.07 ft; minimum contents, 0.13 acre-ft, Nov 22, 23, Jan 7, elevation, 73.71 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.15	.14	.13	.20	.15	.16	2930	.15	.15	.34	.14
2	.18	.14	.14	.13	.22	.15	1640	3760	.15	.15	.28	.14
3	.16	.14	.14	.13	.19	.15	5470	4630	.15	.15	.26	.14
4	.15	.14	.44	.13	.16	.15	5300	5030	2.71	.15	.22	.14
5	.15	.14	1.13	.13	.15	.15	3670	5260	16.5	.21	.19	.14
6	.14	.14	.27	.13	.14	.15	2520	4730	.17	.16	.18	.14
7	.14	.14	.19	.13	1.34	.15	2310	2890	.15	.15	.16	.14
8	.15	.14	.16	1.34	9.56	.15	2460	810	.14	.15	.15	.14
9	.15	.17	.15	.41	.36	.15	2540	.23	.15	.15	.17	.14
10	.20	.14	.14	.27	.25	.16	2610	.17	13.6	.15	.15	.14
11	.17	.14	.15	.20	.20	.21	2630	.15	258	.15	.15	.14
12	.16	.14	.23	.18	.17	.18	4030	.15	35.0	.15	.15	.14
13	.15	.14	.20	.14	.16	.16	4790	.18	.28	.15	.15	.23
14	.15	.13	.17	.14	.16	3.55	3390	.15	.24	.15	.15	.20
15	.15	.13	.15	.14	.15	162	2550	.15	.19	.15	.15	.22
16	.15	.13	.14	.14	.15	6.45	2770	.15	.17	.15	.15	.20
17	.16	.13	.14	.14	.15	.20	2870	.15	.23	.16	.15	.17
18	.20	.13	.14	.14	.14	.17	2930	.15	.39	.17	.15	.15
19	.28	.13	.14	.14	.14	.17	2930	.15	.36	.17	.15	.15
20	.24	.13	.14	.14	.14	.15	2940	645	.27	.18	.15	.15
21	.21	.13	.16	.14	.14	.16	2930	1990	.21	.18	.15	.17
22	.19	.13	.15	.14	.15	.16	2930	1740	.18	.18	.15	.19
23	.16	.42	.14	.14	2.13	.16	2930	231	3.92	.23	.15	.17
24	.15	.31	.14	.14	1.34	.16	2930	.26	11.6	.24	.15	.16
25	.14	.27	.14	.14	.31	.16	2910	.20	19.0	.20	.15	.15
26	.14	.20	.14	.13	.22	.16	2910	.18	28.2	.17	.15	.15
27	.14	.17	.14	.31	.17	.15	2900	.16	.15	.18	.15	.15
28	.14	.15	.14	3.75	.16	.15	2900	.19	.16	.19	.15	.15
29	.14	.14	.14	.32	.15	.16	2890	.16	.15	.27	.15	.15
30	.14	.14	.13	.22	---	.16	2890	.15	.15	.21	.15	.14
31	.15	---	.13	.19	---	.15	---	.15	---	.20	.15	---
MAX	.28	.42	1.13	3.75	9.56	162	5470	5260	258	.27	.34	.23
MIN	.14	.13	.13	.13	.14	.15	.16	.15	.14	.15	.15	.14

CAL YR 1999 MAX 6700 MIN .13
WTR YR 2000 MAX 5470 MIN .13

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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 mi^2.

PERIOD OF RECORD.--Jul 1977 to current year.
Water-quality records.--Chemical data: Jun 1978 to Sep 1981. Biochemical data: Jun 1978 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0630	1,040	9.43	Jun 11	1700	530	7.46
May 20	0500	595	7.76				

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

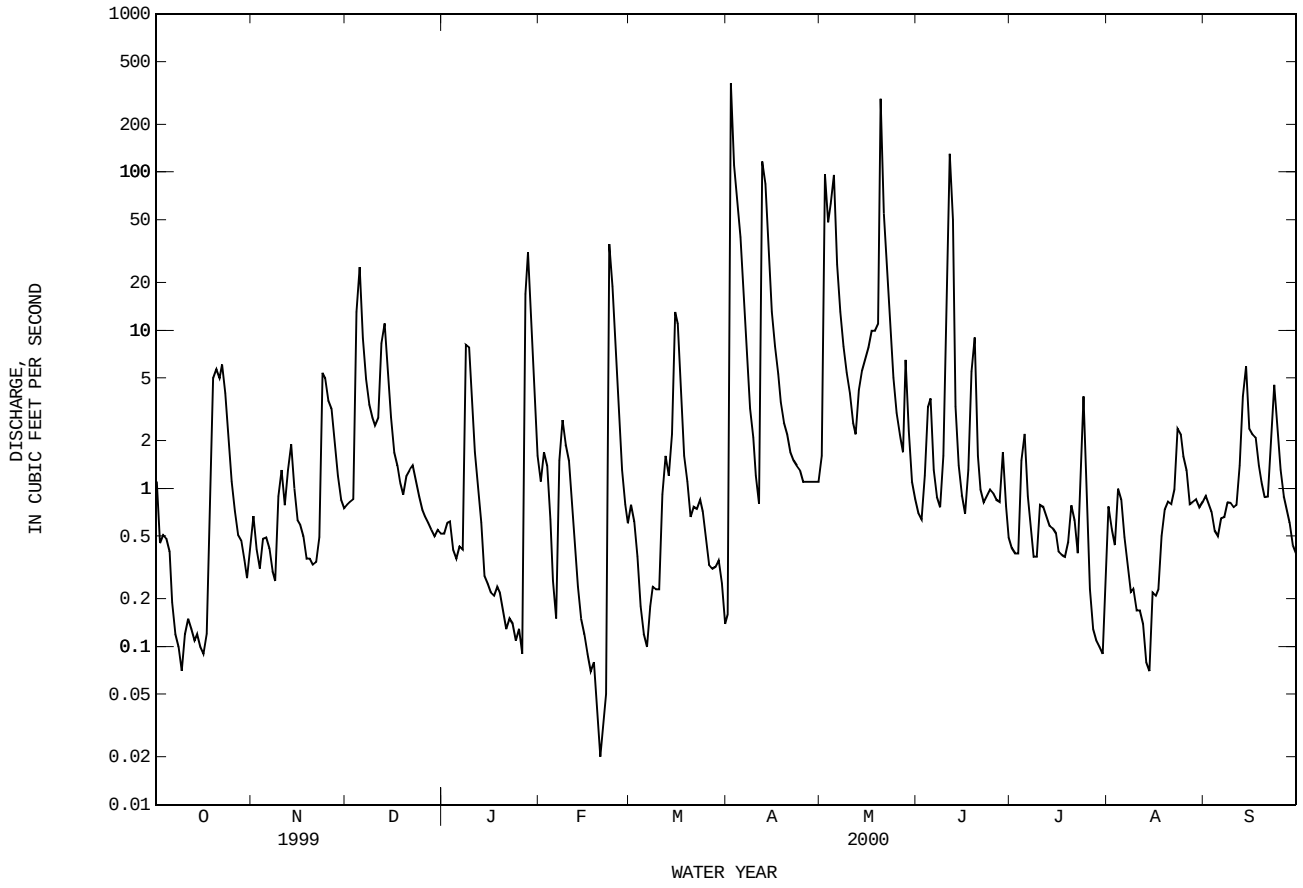
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.67	.79	.52	1.1	.79	.16	1.6	.70	.42	.77	.90
2	.45	.41	.82	.61	1.7	.62	364	97	.64	.39	.56	.81
3	.51	.31	.85	.62	1.4	.37	110	48	1.2	.39	.44	.71
4	.48	.48	13	.41	.64	.18	63	63	3.3	1.5	1.0	.54
5	.40	.49	25	.36	.26	.12	39	96	3.7	2.2	.85	.50
6	.19	.42	8.9	.43	.15	.10	14	26	1.3	.89	.49	.65
7	.12	.30	4.9	.41	1.5	.18	6.1	13	.88	.53	.33	.66
8	.10	.26	3.4	8.1	2.7	.24	3.2	7.9	.76	.37	.22	.82
9	.07	.89	2.8	7.8	1.9	.23	2.1	5.4	1.6	.37	.23	.81
10	.12	1.3	2.5	3.2	1.5	.23	1.2	4.0	10	.79	.17	.76
11	.15	.78	2.8	1.7	.86	.92	.80	2.6	130	.77	.17	.78
12	.13	1.3	8.3	.97	.46	1.6	117	2.2	50	.67	.14	1.4
13	.11	1.9	11	.61	.24	1.2	84	4.2	3.3	.58	.08	3.8
14	.12	1.0	5.9	.28	.15	2.2	31	5.6	1.4	.56	.07	5.9
15	.10	.63	2.8	.25	.12	13	13	6.6	.91	.52	.22	2.4
16	.09	.59	1.7	.22	.09	11	7.9	7.8	.69	.40	.21	2.2
17	.12	.50	1.4	.21	.07	4.1	5.3	10	1.3	.38	.23	2.1
18	.94	.36	1.1	.24	.08	1.6	3.5	10	5.5	.37	.50	1.4
19	5.0	.36	.92	.22	.04	1.1	2.6	11	9.0	.46	.74	1.1
20	5.7	.33	1.2	.17	.02	.66	2.2	291	1.6	.78	.83	.88
21	5.0	.34	1.3	.13	.03	.77	1.7	55	.99	.63	.80	.89
22	6.1	.49	1.4	.15	.05	.75	1.5	21	.82	.39	.99	1.9
23	4.0	5.4	1.1	.14	35	.85	1.4	10	.90	1.1	2.4	4.5
24	2.1	5.0	.89	.11	19	.72	1.3	5.0	.99	3.8	2.2	2.4
25	1.1	3.6	.73	.13	5.9	.48	1.1	3.0	.93	.76	1.6	1.3
26	.72	3.2	.67	.09	2.5	.33	1.1	2.2	.85	.23	1.3	.89
27	.51	1.9	.61	17	1.3	.31	1.1	1.7	.83	.13	.80	.75
28	.47	1.2	.55	31	.79	.32	1.1	6.5	1.7	.11	.82	.61
29	.35	.85	.50	8.5	.60	.35	1.1	2.3	.77	.10	.85	.44
30	.27	.75	.55	3.5	---	.25	1.1	1.1	.49	.09	.76	.39
31	.43	---	.52	1.6	---	.14	---	.86	---	.28	.82	---
TOTAL	37.05	36.01	108.90	89.68	80.15	45.71	882.56	821.56	237.05	20.96	21.59	43.19
MEAN	1.20	1.20	3.51	2.89	2.76	1.47	29.4	26.5	7.90	.68	.70	1.44
MAX	6.1	5.4	25	31	35	13	364	291	130	3.8	2.4	5.9
MIN	.07	.26	.50	.09	.02	.10	.16	.86	.49	.09	.07	.39
AC-FT	73	71	216	178	159	91	1750	1630	470	42	43	86

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

MEAN	31.8	30.5	24.8	23.6	24.6	14.2	17.4	26.8	26.9	9.65	11.3	22.0
MAX	257	250	131	91.0	120	52.7	119	89.5	106	45.3	53.1	128
(WY)	1999	1999	1992	1979	1992	1993	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	2284.93		2424.41			
ANNUAL MEAN	6.26		6.62		22.0	
HIGHEST ANNUAL MEAN					49.8	1999
LOWEST ANNUAL MEAN					4.45	1988
HIGHEST DAILY MEAN	198	May 12	364	Apr 2	1550	Oct 20 1998
LOWEST DAILY MEAN	.02	Sep 16	.02	Feb 20	.00	Nov 20 1977
ANNUAL SEVEN-DAY MINIMUM	.03	Sep 12	.05	Feb 16	.00	Mar 16 1978
INSTANTANEOUS PEAK FLOW			1040	Apr 2	2060	Aug 31 1981
INSTANTANEOUS PEAK STAGE			9.43	Apr 2	16.72	Sep 20 1979
ANNUAL RUNOFF (AC-FT)	4530		4810		15950	
10 PERCENT EXCEEDS	13		8.6		50	
50 PERCENT EXCEEDS	1.5		.85		1.8	
90 PERCENT EXCEEDS	.32		.15		.06	

08072730 BEAR CREEK NEAR BARKER, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1977 to Sep 1980 (daily mean discharge), Oct 1980 to Sep 1982 (peak discharges greater than base discharge and annual maximum), Oct 1982 to Sep 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 good. No known regulation or diversion. Major channel rectification completed in the summer of 1998.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,820 ft^3/s May 24, 1997 (gage height 22.62 ft); maximum gage height 24.42 ft Sep 19, 1979; no flow for several days during period Jul to Sep 1977, and during the 1978 and 1980 water years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0600	1,290	17.36	May 20	0300	1,110	16.94
May 2	0430	724	15.85	Jun 2	2130	1,680	18.17

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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 mi^2.

PERIOD OF RECORD.--Jun 1948 to current year.
Water-quality records.--Chemical data: Jun 1978 to Sep 1981. Biochemical data: Jun 1978 to Sep 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, 5,820 acre-ft, May 6, elevation, 90.07 ft; minimum contents, 0.46 acre-ft, Nov 19, 20, 21, 22, elevation, 71.84 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.51	.52	.49	.66	.61	.52	2170	.80	.59	.95	.48
2	.55	.51	.52	.49	.71	.61	2340	3300	.71	.60	.75	.76
3	.55	.49	.52	.49	.58	.61	4570	4570	622	.59	.59	.58
4	.54	.49	17	.49	.57	.59	4310	5140	1250	2.0	.58	.55
5	.54	.49	1.5	.48	.56	.59	2770	5760	1670	1.6	.57	.55
6	.53	.49	.58	.48	.56	.59	1550	5500	505	.81	.56	.54
7	.53	.49	.53	.48	50	.58	1210	4050	.80	.67	.55	.54
8	.53	.49	.53	31	.95	.58	1250	2170	.68	.62	.55	.52
9	.52	.49	.53	.80	.61	.58	1280	312	.96	.60	.55	.52
10	.79	.48	.60	.55	.60	.58	1310	.96	104	.59	.55	.52
11	.55	.48	.52	.55	.60	1.8	1330	.59	529	.61	.55	.51
12	.55	.48	2.4	.55	.60	.86	2620	.58	86	.62	.55	.52
13	.53	.48	.87	.55	.59	.72	3020	.57	1.1	.60	.54	1.3
14	.53	.48	.55	.54	.59	11	2140	.57	.67	.59	.53	.80
15	.53	.48	.55	.51	.58	181	1670	.57	.63	.60	.52	1.1
16	.52	.48	.55	.50	.58	.86	1720	.56	.62	.59	.52	.59
17	.52	.47	.55	.50	.58	.56	1770	.56	3.0	.59	.52	.57
18	.59	.47	.55	.50	.57	.55	1810	.55	17	.60	.51	.55
19	.99	.46	.54	.49	.57	.55	1850	.55	2.5	.58	.51	.55
20	.55	.46	.55	.49	.56	.55	1860	2780	1.0	.63	.51	.55
21	.54	.46	.57	.49	.55	.55	1890	4250	.70	.66	.50	.55
22	.53	.98	.53	.49	.55	.60	1920	3410	.61	.63	.49	.75
23	.53	14	.52	.49	102	.55	1950	1050	.56	1.1	.49	.59
24	.52	1.1	.51	.49	2.2	.55	1960	24	.55	1.1	.49	.55
25	.52	.76	.51	.49	.82	.55	1980	.72	.55	.83	.49	.55
26	.52	.55	.50	.49	.71	.55	2000	.64	.55	.72	.49	.55
27	.51	.55	.50	43	.64	.54	2030	.63	.65	.65	.48	.53
28	.51	.53	.50	74	.62	.53	2050	1.4	.79	.64	.48	.52
29	.51	.53	.49	.89	.62	.52	2070	1.0	.62	.65	.48	.51
30	.52	.52	.49	.65	---	.52	2100	.71	.60	.64	.48	.49
31	.51	---	.49	.58	---	.52	---	.71	---	.77	.48	---
MAX	.99	14	17	74	102	181	4570	5760	1670	2.0	.95	1.3
MIN	.51	.46	.49	.48	.55	.52	.52	.55	.55	.58	.48	.48

CAL YR 1999 MAX 4350 MIN .46
WTR YR 2000 MAX 5760 MIN .46

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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 mi^2.

PERIOD OF RECORD.--Aug 1945 to current year.
Water-quality records.--Chemical data: Oct 1962 to Mar 1963, Aug 1970 to Sep 1982. Biochemical data: Aug 1970 to Sep 1982. Pesticide data: Aug 1970 to Sep 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. Since installation of gage in Aug 1945, at least 10% of contributing drainage area has been regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 3.2 and 3.0 mi upstream (total capacity, 315,900 acre-ft). No known diversions. Extreme low flow is sustained by drainage from irrigated lands, and from minor wastewater effluent. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	46	37	31	75	41	42	23	56	48	153	39
2	62	42	35	31	95	38	413	330	59	48	128	53
3	52	38	35	32	79	38	222	109	306	42	110	64
4	48	37	227	32	60	36	849	77	204	47	83	46
5	44	38	330	29	49	36	1670	244	97	189	66	46
6	41	37	179	30	44	37	1200	473	487	108	63	44
7	40	37	89	32	162	39	395	1450	502	67	56	42
8	39	39	53	226	339	36	29	1490	89	52	52	40
9	41	35	80	264	199	37	21	1250	125	47	61	44
10	82	34	66	110	102	37	19	350	255	44	53	47
11	79	36	47	63	70	118	22	83	66	43	44	48
12	51	34	86	45	54	84	475	62	614	45	49	49
13	46	34	146	37	48	50	663	74	435	41	46	121
14	46	34	75	35	45	81	1350	61	135	41	43	128
15	46	34	46	e33	39	68	846	50	95	39	41	98
16	46	33	37	e32	40	264	28	51	72	38	42	106
17	47	31	33	e38	41	115	24	48	77	41	44	74
18	62	30	32	35	39	57	23	50	223	47	40	57
19	117	31	32	33	38	51	20	51	266	48	40	48
20	117	32	41	32	38	52	19	448	179	47	41	46
21	83	32	59	32	38	44	18	69	108	56	43	63
22	66	70	46	32	40	65	17	641	78	53	42	71
23	54	234	37	31	258	56	16	1570	51	104	59	85
24	48	240	33	32	383	47	17	889	36	127	54	68
25	46	137	31	31	166	45	17	139	35	86	48	56
26	42	90	32	30	102	42	17	89	44	60	45	46
27	37	55	34	149	72	40	17	76	112	51	46	40
28	36	44	31	418	52	39	16	110	86	60	48	38
29	37	42	29	275	43	40	21	109	69	79	46	35
30	49	39	29	104	---	38	17	80	54	72	43	35
31	44	---	30	75	---	35	---	68	---	85	42	---
TOTAL	1737	1695	2097	2409	2810	1806	8503	10614	5015	1955	1771	1777
MEAN	56.0	56.5	67.6	77.7	96.9	58.3	283	342	167	63.1	57.1	59.2
MAX	117	240	330	418	383	264	1670	1570	614	189	153	128
MIN	36	30	29	29	38	35	16	23	35	38	40	35
AC-FT	3450	3360	4160	4780	5570	3580	16870	21050	9950	3880	3510	3520

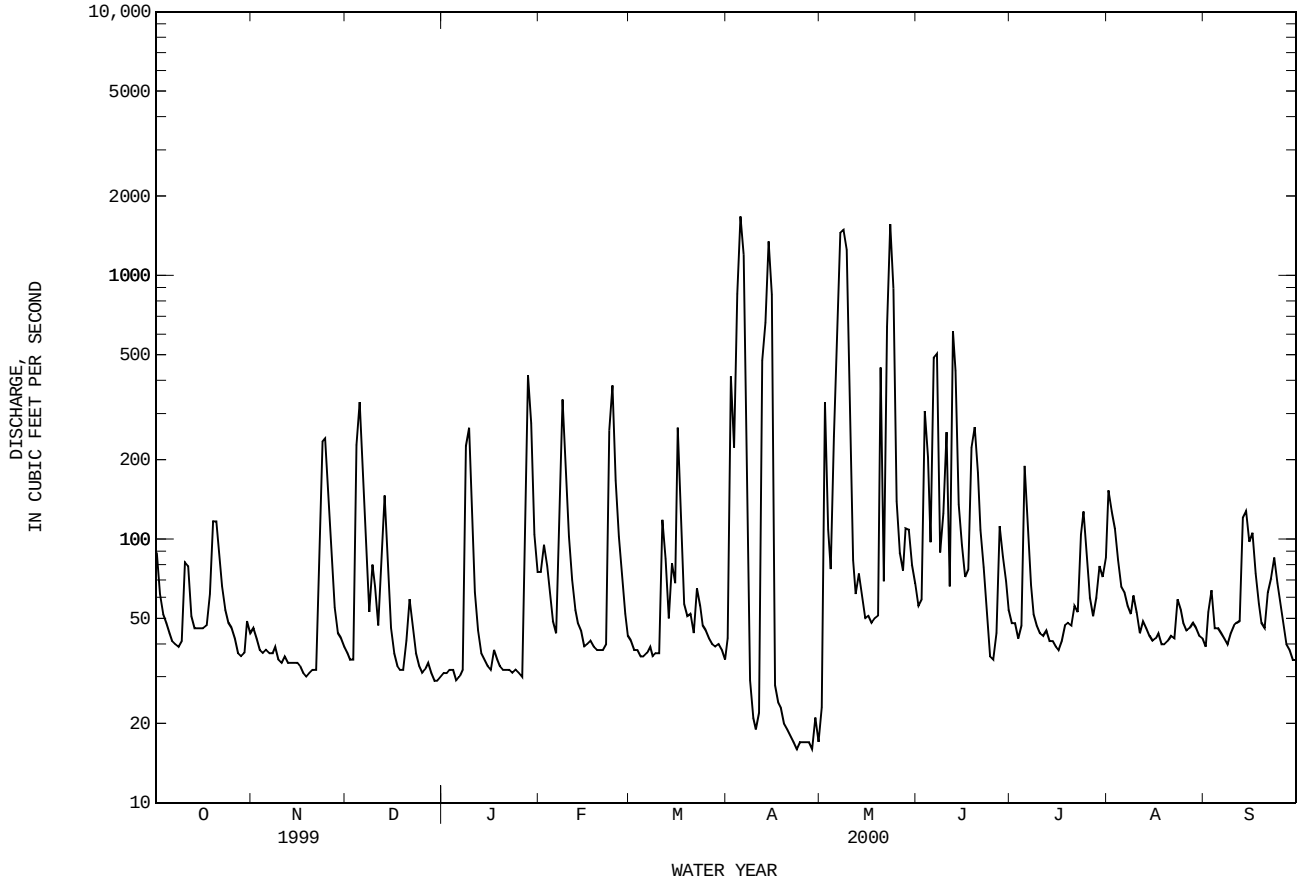
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000, BY WATER YEAR (WY)

MEAN	238	267	271	270	311	201	219	292	307	186	126	222
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000	
ANNUAL TOTAL	47289		42189			
ANNUAL MEAN	130		115		242	
HIGHEST ANNUAL MEAN					784	1992
LOWEST ANNUAL MEAN					23.3	1951
HIGHEST DAILY MEAN	1480	May 14	1670	Apr 5	6790	Jun 28 1960
LOWEST DAILY MEAN	14	Apr 23	16	Apr 23	.00	Jun 22 1948
ANNUAL SEVEN-DAY MINIMUM	15	Apr 19	17	Apr 22	.00	Jun 22 1948
INSTANTANEOUS PEAK FLOW			1740	Apr 4	11200	Aug 29 1945
INSTANTANEOUS PEAK STAGE			60.16	Apr 12	81.23	Aug 29 1945
ANNUAL RUNOFF (AC-FT)	93800		83680		175300	
10 PERCENT EXCEEDS	327		236		785	
50 PERCENT EXCEEDS	48		48		49	
90 PERCENT EXCEEDS	29		32		5.9	

e Estimated

08073500 BUFFALO BAYOU NEAR ADDICKS, TX--Continued



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 mi^2, unadjusted for basin boundary changes.

PERIOD OF RECORD.--Sep 1971 to current year.
Water-quality records.--Chemical data: Jun 1978 to Sep 1998. Biochemical data: Jun 1978 to Aug 1986. Pesticide data: Jun 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.--No estimated daily discharges. Records good. Since installation of gage in Sep 1971, at least 10% of contributing drainage area has been regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 10.1 and 10.3 mi upstream (combined capacity, 315,900 acre-ft), and runoff from highly urbanized areas below these reservoirs. Stage-discharge relation is affected by seasonal vegetal growth during most years. No known diversions. Low flow is mostly sustained by wastewater effluent. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

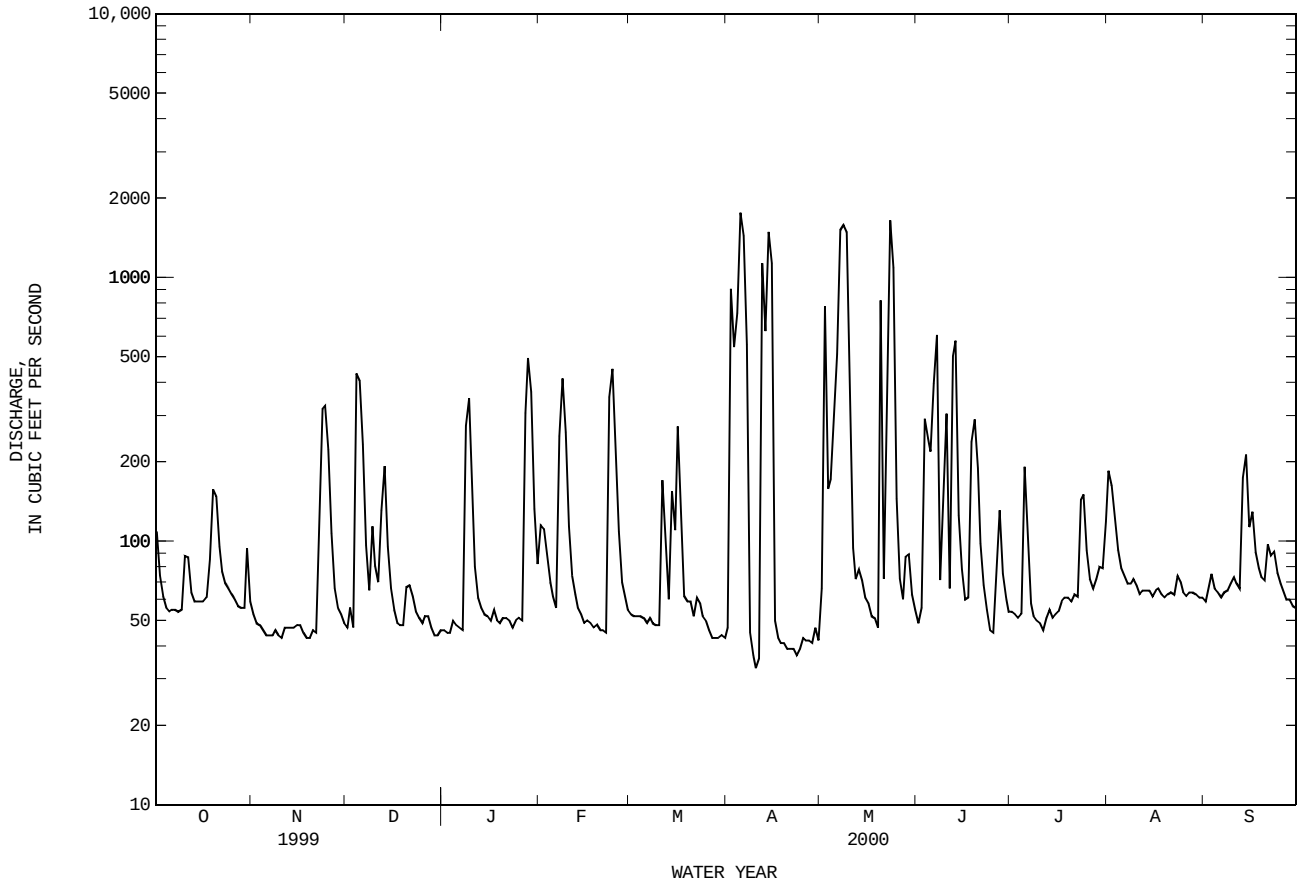
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	53	47	46	115	53	47	66	49	54	185	59
2	74	49	56	45	111	52	903	779	56	53	163	66
3	62	48	47	45	89	52	545	158	291	51	125	75
4	56	46	433	50	70	52	732	172	246	53	93	66
5	54	44	406	48	62	51	1760	311	219	191	79	64
6	55	44	233	47	56	49	1440	512	395	106	74	61
7	55	44	96	46	250	51	555	1510	606	58	69	64
8	54	46	65	274	413	49	45	1580	71	52	69	65
9	55	44	114	348	259	48	37	1490	142	50	72	69
10	88	43	81	145	114	48	33	496	305	49	68	73
11	87	47	70	80	74	170	36	94	66	46	63	69
12	64	47	131	61	63	95	1130	72	502	51	65	66
13	59	47	192	56	56	60	627	78	576	55	65	174
14	59	47	95	53	53	155	1490	71	125	51	65	213
15	59	48	66	52	49	110	1130	61	78	53	62	113
16	59	48	55	50	50	272	50	58	60	54	65	129
17	61	45	49	55	49	151	43	52	61	59	66	91
18	85	43	48	50	47	62	41	51	238	61	63	79
19	157	43	48	49	48	59	41	47	290	61	61	73
20	148	46	67	51	46	59	39	819	189	59	63	71
21	95	45	68	51	46	52	39	72	98	63	64	97
22	77	147	62	50	45	61	39	497	68	62	63	88
23	69	317	54	47	351	58	37	1650	55	144	74	91
24	66	325	51	50	450	52	39	1090	46	150	70	76
25	63	222	49	51	207	50	43	145	45	92	64	69
26	60	107	52	50	109	46	42	72	78	72	62	64
27	57	66	52	306	70	43	42	60	131	66	64	60
28	56	56	47	496	61	43	41	87	75	72	64	60
29	56	53	44	367	55	43	47	89	61	80	63	57
30	94	49	44	132	---	44	42	63	54	79	61	56
31	59	---	46	82	---	43	---	55	---	118	61	---
TOTAL	2252	2309	2968	3333	3468	2233	11135	12357	5276	2265	2345	2458
MEAN	72.6	77.0	95.7	108	120	72.0	371	399	176	73.1	75.6	81.9
MAX	157	325	433	496	450	272	1760	1650	606	191	185	213
MIN	54	43	44	45	45	43	33	47	45	46	61	56
AC-FT	4470	4580	5890	6610	6880	4430	22090	24510	10460	4490	4650	4880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	325	377	387	386	399	324	318	369	438	259	190	333
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	62648		52399			
ANNUAL MEAN	172		143		341	
HIGHEST ANNUAL MEAN					854	1992
LOWEST ANNUAL MEAN					142	1988
HIGHEST DAILY MEAN	2200	Mar 19	1760	Apr 5	3820	Aug 31 1981
LOWEST DAILY MEAN	25	Apr 5	33	Apr 10	16	Jul 3 1995
ANNUAL SEVEN-DAY MINIMUM	28	Apr 19	39	Apr 18	19	Mar 14 1996
INSTANTANEOUS PEAK FLOW			2600	Apr 12	7290	Mar 4 1992
INSTANTANEOUS PEAK STAGE			54.53	Apr 12	68.30	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	124300		103900		247200	
10 PERCENT EXCEEDS	477		305		1030	
50 PERCENT EXCEEDS	62		62		106	
90 PERCENT EXCEEDS	39		45		46	

08073600 BUFFALO BAYOU AT WEST BELT DRIVE, HOUSTON, TX--Continued



08073700 BUFFALO BAYOU AT PINEY POINT, TX

LOCATION.--Lat 29°44′48", long 95°31′24", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Piney Point Road, village of Piney Point, 3.7 mi downstream from Rummel Creek, 7.2 mi downstream from Buffalo Bayou near Addicks (station 08073500), and 12.5 mi upstream from Buffalo Bayou at Houston (station 08074000).

DRAINAGE AREA.--317 mi^2.

PERIOD OF RECORD.--Oct 1963 to Sep 1976, Oct 1976 to Sep 1984 (gage heights only), Oct 1984 to current year (daily mean discharge).

Water-quality records.--Chemical data: Oct 1970 to Sep 1978. Biochemical data: Oct 1970 to Sep 1978. Pesticide data: Oct 1970 to Sep 1978.

GAGE.--Water-stage recorder. Datum of gage is 1.35 ft below sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct 1963, at least 10% of contributing drainage area has been regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 14.0 and 13.8 mi upstream from gage (combined capacity, 315,900 acre-ft). No known diversions. Low flow is mostly sustained by wastewater effluent. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	73	62	64	131	62	56	84	93	73	194	62
2	91	68	78	64	120	61	953	882	91	71	191	66
3	78	63	71	61	107	59	721	217	307	66	145	85
4	74	62	466	64	86	57	614	224	318	66	113	73
5	69	64	396	62	76	55	1730	340	310	187	95	71
6	66	63	235	62	69	55	1510	483	294	133	89	67
7	65	61	112	62	251	57	643	1450	694	78	85	70
8	65	64	77	239	392	57	82	1570	108	63	84	71
9	72	60	115	343	260	57	64	1550	178	60	85	78
10	94	58	95	157	130	58	60	605	350	59	82	96
11	106	62	82	96	95	178	60	139	105	55	73	82
12	77	60	160	75	81	108	1190	108	387	58	78	75
13	71	60	183	68	74	71	576	112	664	63	74	202
14	69	59	109	64	70	163	1470	107	163	59	71	267
15	68	62	82	61	63	152	1250	92	111	59	68	126
16	67	60	68	60	62	222	101	91	89	59	69	141
17	69	57	65	64	62	188	69	89	93	68	71	101
18	89	56	63	60	61	77	63	92	244	71	69	85
19	151	57	62	59	59	70	61	92	311	73	64	78
20	148	60	84	59	57	68	57	961	217	70	65	75
21	106	58	89	57	57	62	56	147	129	73	67	108
22	86	211	79	58	58	73	54	379	94	71	66	108
23	78	326	70	56	338	72	51	1720	78	143	82	106
24	70	320	65	56	428	64	52	1280	61	179	81	88
25	66	243	76	57	221	61	52	243	59	115	76	75
26	64	128	67	56	128	57	49	134	130	91	70	63
27	62	91	70	307	88	54	51	116	171	80	71	57
28	60	74	66	473	71	53	48	148	110	83	73	56
29	62	68	58	370	64	54	53	157	85	93	70	52
30	103	63	58	145	---	54	48	118	75	94	66	52
31	83	---	61	104	---	50	---	105	---	163	66	---
TOTAL	2553	2811	3424	3583	3759	2529	11844	13835	6119	2676	2653	2736
MEAN	82.4	93.7	110	116	130	81.6	395	446	204	86.3	85.6	91.2
MAX	151	326	466	473	428	222	1730	1720	694	187	194	267
MIN	60	56	58	56	57	50	48	84	59	55	64	52
AC-FT	5060	5580	6790	7110	7460	5020	23490	27440	12140	5310	5260	5430

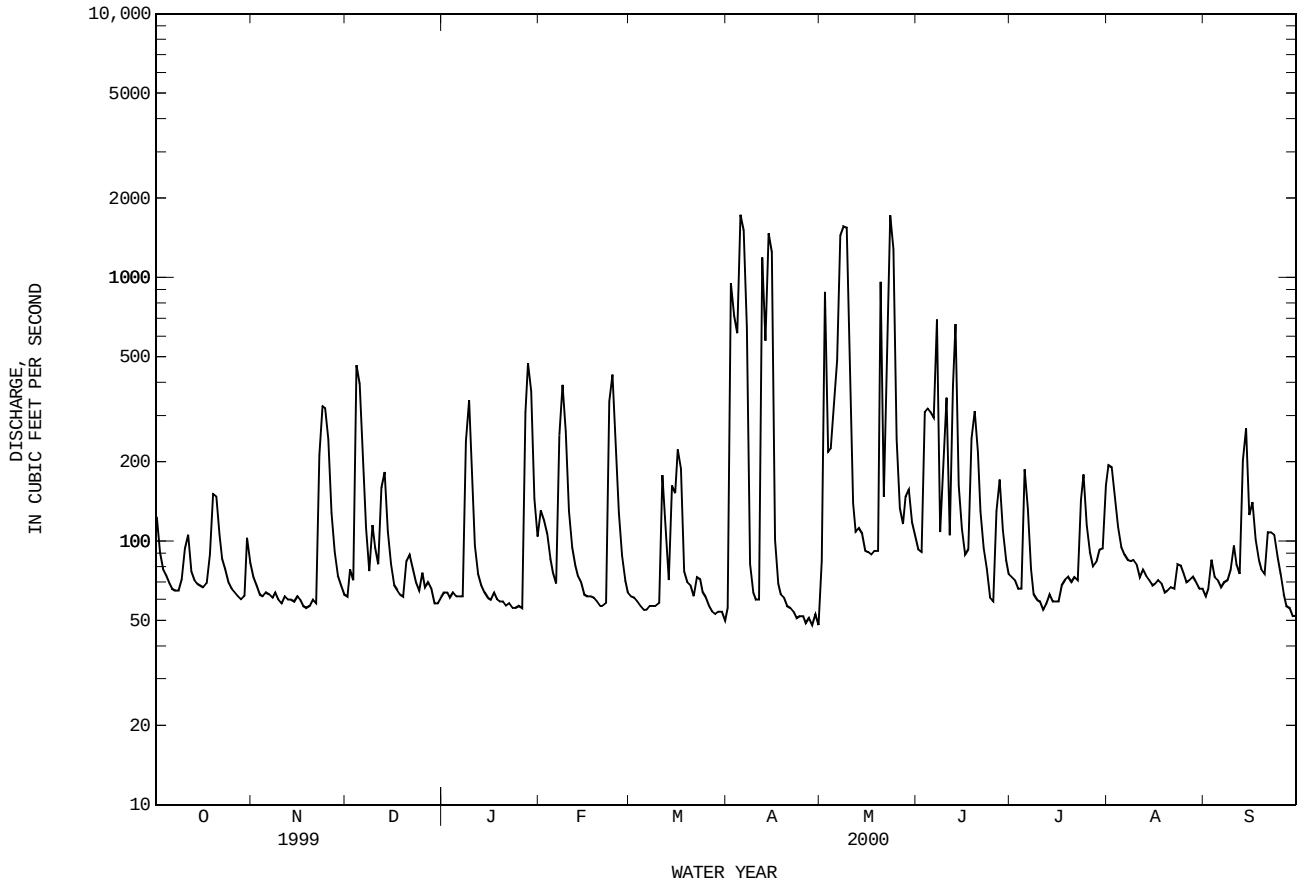
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000h, BY WATER YEAR (WY)

MEAN	322	368	334	333	372	359	320	423	450	237	187	278
MAX	1301	1668	1233	1156	1673	1804	1708	1584	1296	1027	534	958
(WY)	1999	1999	1999	1992	1992	1992	1992	1968	1992	1993	1989	1998
MIN	30.4	11.2	31.5	28.3	29.9	13.8	22.6	37.9	30.9	58.5	61.8	70.5
(WY)	1964	1967	1971	1971	1967	1967	1965	1964	1965	1965	1967	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000h	
ANNUAL TOTAL	70968		58522			
ANNUAL MEAN	194		160		330	
HIGHEST ANNUAL MEAN					907	1992
LOWEST ANNUAL MEAN					77.5	1965
HIGHEST DAILY MEAN	2360	Mar 19	1730	Apr 5	4740	Mar 5 1992
LOWEST DAILY MEAN	30	Apr 23	48	Apr 28	6.0	Dec 6 1964
ANNUAL SEVEN-DAY MINIMUM	32	Apr 19	50	Apr 24	7.0	Dec 2 1964
INSTANTANEOUS PEAK FLOW			2600	Apr 12	7500	Mar 4 1992
INSTANTANEOUS PEAK STAGE			46.27	Apr 12	61.23	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	140800		116100		238900	
10 PERCENT EXCEEDS	499		313		1000	
50 PERCENT EXCEEDS	86		75		105	
90 PERCENT EXCEEDS	61		57		32	

h See PERIOD OF RECORD paragraph.

08073700 BUFFALO BAYOU AT PINEY POINT, TX--Continued



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 mi^2, unadjusted for basin boundary changes.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1936 to Sep 1957 (daily mean discharge, Oct 1957 to Dec 1961 (high-water records and discharge measurements), Jan 1962 to Sep 1975 (daily mean discharge), Oct 1975 to current year (high-water records and discharge measurements).

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 Jun 19, 1936, nonrecording gage, and Jun 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 Sep 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 Sep 30, 1993. Satellite telemeter at station.

REMARKS.--Records fair. Since water year 1994 floodflows are regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 26.3 and 26.8 mi upstream (combined capacity, 315,900 acre-ft), 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 ft^3/s. Discharges below 1,000 ft^3/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 ft^3/s (197,100 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--26 years (water years 1945-57, 1963-75), 274 ft^3/s (198,500 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft^3/s, Sep 11, 1998, gage height, 36.33 ft; minimum daily, 1.3 ft^3/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 ft^3/s); furnished by engineer for Harris County. Flood of May 31, 1929, reached a gage height of 43.5 ft (discharge, 19,000 ft^3/s), at bridge on Capitol Avenue, affected by bridge; furnished by city of Houston.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,560 ft^3/s, Apr 12, gage height, 14.80 ft; minimum discharges not determined (affected by tides).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	1710	1900	---	---	---	---
3	---	---	---	---	---	---	1910	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	1780	---	---	---	---	---
6	---	---	---	---	---	---	1910	---	---	---	---	---
7	---	---	---	---	---	---	970	1190	---	---	---	---
8	---	---	---	---	---	---	---	1690	---	---	---	---
9	---	---	---	---	---	---	---	1820	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	2010	---	---	---	---	---
13	---	---	---	---	---	---	806	---	---	---	---	---
14	---	---	---	---	---	---	1500	---	---	---	---	---
15	---	---	---	---	---	---	1580	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	2040	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	1640	---	---	---	---
24	---	---	---	---	---	---	---	1680	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1968 to Jul 1981, Apr 1986 to current year.
BIOCHEMICAL DATA: Oct 1968 to Jul 1981.
PESTICIDE DATA: Feb 1969 to Jul 1981.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Apr 1986 to Sep 2000 (discontinued).
pH: Jun 1998 to Sep 2000 (discontinued).
WATER TEMPERATURE: Apr 1986 to Sep 2000 (discontinued).
DISSOLVED OXYGEN: Apr 1986 to Sep 2000 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Apr 1986.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,080 microsiemens, Apr 22, 1999; minimum, 29 microsiemens, May 8, 1995.
pH: Maximum, 10.3 units, Oct 20, 1998; minimum, 6.3 units, Oct 23, 1998.
WATER TEMPERATURE: Maximum, 32.8°C, Jul 12, 1998; minimum, 4.5°C, Jan 13, 1997.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L, Apr 10, 1996; minimum, 0.0 mg/L, Sep 6, 10, 12.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 976 microsiemens, Jul 23; minimum, 76 microsiemens, Mar 15.
pH: Maximum, 8.8 units, Jul 2, 13; minimum, 6.9 units, Jan 30.
WATER TEMPERATURE: Maximum, 32.6°C, Jul 16; minimum, 8.9°C, Jan 30.
DISSOLVED OXYGEN: Maximum, 12.0 mg/L, Jan 27; minimum, 0.2 mg/L, Jul 24.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	738	645	699	711	527	599	750	708	727	814	794	805
2	736	674	695	751	706	731	765	294	700	814	797	807
3	719	687	696	793	750	774	698	480	660	803	789	793
4	722	695	707	840	787	815	696	210	531	839	799	813
5	749	709	732	863	821	837	492	195	315	821	788	805
6	772	727	744	867	830	847	522	387	458	815	789	801
7	793	743	774	880	852	865	533	468	498	823	801	813
8	807	778	790	881	852	868	601	518	560	820	155	673
9	795	673	765	878	850	865	639	578	608	640	348	458
10	743	499	651	874	823	857	671	532	614	519	415	485
11	809	743	785	885	833	868	638	500	560	585	518	540
12	795	647	724	876	853	866	677	259	526	646	582	618
13	724	660	697	887	844	866	626	339	487	691	643	670
14	750	704	727	892	862	877	632	541	573	729	684	709
15	800	734	770	917	860	892	587	553	572	761	710	742
16	827	782	806	882	849	870	655	584	628	798	743	774
17	830	805	817	881	859	870	687	629	662	827	780	803
18	838	801	817	884	864	875	739	673	709	816	803	809
19	814	613	703	889	868	878	777	726	748	820	802	811
20	731	632	678	897	860	875	772	702	740	828	800	814
21	725	672	701	896	867	878	733	676	704	824	804	813
22	714	674	700	912	390	774	724	643	683	844	809	831
23	729	698	714	---	---	---	783	719	761	862	829	847
24	737	706	724	---	---	---	790	745	768	859	841	849
25	768	734	754	---	---	---	776	737	763	851	811	839
26	793	747	758	---	---	---	759	631	714	836	803	817
27	799	743	774	---	---	---	748	675	724	814	228	662
28	816	792	808	---	---	---	731	711	720	493	232	324
29	840	788	807	---	---	---	738	712	726	411	348	372
30	816	500	753	---	---	---	778	726	754	485	386	437
31	729	591	659	---	---	---	805	778	796	559	480	515
MONTH	840	499	740	---	---	---	805	195	645	862	155	705

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	590	503	545	738	690	721	858	808	823	---	---	---
2	539	495	517	804	734	766	859	94	329	---	---	---
3	669	500	598	813	762	783	253	151	194	---	---	---
4	695	661	673	805	782	794	383	253	326	---	---	---
5	706	671	690	840	787	819	318	175	185	---	---	---
6	717	681	700	844	815	826	200	183	188	---	---	---
7	735	270	609	839	825	831	242	200	223	---	---	---
8	485	289	368	838	824	831	422	242	333	---	---	---
9	414	313	373	859	827	840	529	417	454	---	---	---
10	485	400	439	864	816	844	684	529	591	---	---	---
11	591	483	539	845	128	568	720	680	692	---	---	---
12	646	591	620	684	490	556	---	---	---	---	---	---
13	685	644	670	723	684	714	---	---	---	---	---	---
14	733	685	715	727	338	630	---	---	---	---	---	---
15	761	721	745	414	76	336	---	---	---	---	---	---
16	775	745	765	570	266	459	---	---	---	---	---	---
17	786	717	764	579	461	504	---	---	---	781	749	767
18	807	771	786	635	529	586	---	---	---	827	771	801
19	825	792	812	678	634	659	---	---	---	814	484	796
20	833	808	819	707	662	685	---	---	---	530	118	225
21	840	819	828	726	686	709	---	---	---	382	254	320
22	848	815	830	753	706	718	---	---	---	488	382	420
23	836	303	535	756	731	742	---	---	---	549	192	229
24	508	332	378	755	738	748	---	---	---	237	203	217
25	439	361	405	775	750	763	---	---	---	372	237	304
26	495	424	458	777	746	766	---	---	---	546	372	435
27	594	495	546	804	768	788	---	---	---	627	546	588
28	644	593	615	813	793	801	---	---	---	656	275	601
29	700	622	670	820	804	812	---	---	---	677	569	652
30	---	---	---	843	814	827	---	---	---	657	554	613
31	---	---	---	848	818	832	---	---	---	676	633	659
MONTH	848	270	621	864	76	718	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	706	343	655	---	---	---	---	---	---	---	---	---
2	743	695	723	---	---	---	---	---	---	---	---	---
3	778	425	715	---	---	---	---	---	---	---	---	---
4	571	243	277	815	794	802	---	---	---	---	---	---
5	271	90	213	812	684	772	---	---	---	---	---	---
6	381	229	300	781	456	544	---	---	---	794	763	779
7	513	241	289	600	516	547	---	---	---	804	776	793
8	436	267	363	689	600	648	---	---	---	830	770	799
9	570	334	504	683	631	651	---	---	---	828	739	792
10	437	292	362	689	541	657	---	---	---	839	551	761
11	472	396	448	---	---	---	---	---	---	782	656	718
12	598	462	496	---	---	---	---	---	---	808	724	788
13	558	247	323	---	---	---	---	---	---	826	240	463
14	460	363	413	---	---	---	---	---	---	596	202	440
15	549	460	494	---	---	---	---	---	---	544	217	380
16	600	549	582	---	---	---	---	---	---	659	544	621
17	637	174	529	---	---	---	820	782	807	653	607	632
18	678	344	492	881	803	850	828	805	815	676	633	660
19	600	346	450	937	818	876	847	807	825	708	666	688
20	---	---	---	935	846	902	822	804	814	750	691	711
21	---	---	---	948	868	912	829	810	819	750	567	697
22	---	---	---	952	868	913	823	182	703	648	283	442
23	---	---	---	976	215	806	779	524	643	703	514	607
24	---	---	---	676	493	575	816	707	792	738	703	726
25	---	---	---	737	512	655	795	734	770	741	383	591
26	---	---	---	834	686	753	825	777	805	737	389	593
27	---	---	---	738	684	711	837	809	822	764	422	727
28	---	---	---	741	670	701	822	706	784	802	428	759
29	---	---	---	767	686	727	---	---	800	868	788	826
30	---	---	---	745	653	717	---	---	---	851	450	817
31	---	---	---	741	158	552	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

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

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

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

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.5	21.8	22.7	20.6	19.5	20.0	17.6	16.1	16.9	17.4	15.1	16.2
2	24.2	22.3	23.1	20.1	18.2	19.3	19.9	17.0	17.9	19.6	17.4	18.6
3	26.0	23.9	24.8	18.3	16.7	17.5	20.6	19.1	19.8	20.4	18.9	19.8
4	26.7	25.2	25.8	19.0	16.9	17.9	21.4	20.5	20.8	18.9	15.0	16.6
5	26.5	25.2	25.8	20.3	18.5	19.4	20.7	17.9	19.4	15.0	13.4	14.1
6	25.6	23.8	24.5	21.5	19.6	20.4	17.9	15.4	16.6	15.4	13.9	14.6
7	24.3	22.5	23.4	21.1	19.5	20.3	15.5	14.2	15.0	16.1	15.2	15.6
8	25.5	23.7	24.4	20.6	19.0	19.8	17.1	15.2	16.1	17.2	15.6	16.4
9	26.4	25.2	25.6	20.4	18.9	19.7	18.4	17.1	17.8	17.1	16.3	16.6
10	26.6	25.5	26.0	21.7	19.9	20.7	17.8	16.8	17.3	17.1	15.6	16.4
11	26.8	25.3	26.0	22.0	20.5	21.1	17.7	16.7	17.2	18.1	16.4	17.1
12	26.3	25.1	25.7	21.6	20.3	20.9	19.9	17.6	18.7	20.0	17.8	19.0
13	26.3	25.0	25.6	21.0	19.7	20.3	19.2	17.0	18.2	21.2	19.7	20.2
14	26.4	25.0	25.7	20.5	19.1	19.8	17.0	15.4	16.2	19.7	17.4	18.4
15	26.5	25.1	25.7	20.9	19.1	19.9	16.1	14.4	15.2	18.1	16.5	17.3
16	26.6	25.0	25.7	20.5	19.2	19.7	14.4	13.0	13.7	19.0	17.3	18.0
17	26.1	24.8	25.5	19.9	18.5	19.2	14.9	13.1	13.9	19.7	17.8	18.7
18	24.8	22.2	23.3	20.1	18.6	19.3	15.9	14.5	15.3	20.6	18.7	19.5
19	22.2	20.0	20.9	21.4	19.5	20.4	16.0	14.4	15.2	21.5	19.6	20.3
20	20.3	18.9	19.6	21.6	20.5	21.0	16.2	15.5	15.9	20.6	18.5	19.7
21	19.8	18.1	19.0	21.7	20.1	20.9	15.9	14.9	15.5	18.5	17.1	17.4
22	20.4	18.5	19.3	22.7	21.2	21.8	14.9	13.6	14.2	18.9	17.1	17.9
23	20.6	19.0	19.7	22.6	21.3	22.3	14.3	13.0	13.5	19.8	18.4	18.9
24	20.0	18.5	19.2	21.7	19.8	20.6	14.4	12.5	13.4	18.9	16.7	17.7
25	19.9	18.0	18.8	19.8	17.0	18.2	14.4	13.1	13.6	16.7	15.4	16.1
26	20.6	18.3	19.3	17.0	15.7	16.3	15.1	13.1	14.0	16.0	14.1	14.7
27	21.3	19.1	20.1	16.6	15.4	16.0	16.1	14.4	15.1	14.1	11.3	13.3
28	21.9	20.1	20.9	17.9	16.1	16.9	15.5	14.4	14.9	12.2	9.9	11.1
29	22.2	20.8	21.4	19.0	17.2	18.0	15.9	14.2	14.9	9.9	9.0	9.4
30	22.9	21.7	22.1	18.5	17.2	17.9	16.7	14.6	15.6	10.6	8.9	9.8
31	22.0	20.4	21.3	---	---	---	17.1	15.8	16.2	12.4	10.6	11.4
MONTH	26.8	18.0	22.9	22.7	15.4	19.5	21.4	12.5	16.1	21.5	8.9	16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.9	12.3	13.0	22.2	19.8	20.9	23.5	22.6	22.8	25.5	20.0	24.6
2	14.3	13.0	13.7	23.3	21.2	22.1	22.8	21.0	21.5	24.9	19.4	21.1
3	15.3	13.5	14.3	23.6	21.5	22.4	21.1	18.7	19.5	23.3	19.6	21.4
4	15.9	14.4	14.9	21.5	19.4	20.4	20.5	18.5	19.4	23.2	19.4	21.6
5	15.2	13.4	14.2	20.2	18.6	19.4	19.8	18.8	19.4	24.6	21.9	23.2
6	14.7	13.0	13.9	20.8	19.0	19.8	20.1	19.1	19.6	24.5	23.1	23.9
7	18.4	14.4	15.8	23.0	20.4	21.5	21.4	19.5	20.4	24.9	23.3	24.2
8	18.4	17.3	17.7	23.4	22.0	22.7	22.1	20.2	21.1	25.6	24.5	25.0
9	17.8	16.4	17.2	25.0	22.6	23.6	21.1	19.0	20.2	25.9	25.0	25.5
10	18.6	16.7	17.7	25.0	23.7	24.3	21.3	20.0	20.6	26.9	25.2	26.0
11	19.8	18.4	19.0	24.3	21.0	22.2	22.5	20.8	21.5	26.9	25.3	26.1
12	20.8	19.3	20.0	21.0	18.9	19.9	22.4	18.2	19.7	28.2	26.5	27.2
13	21.1	20.0	20.4	20.4	18.4	19.4	19.8	18.5	19.1	27.9	26.5	26.9
14	21.4	19.6	20.4	19.5	18.9	19.2	19.8	19.2	19.4	26.9	25.0	26.0
15	22.4	20.1	21.1	21.0	19.0	19.9	20.3	19.2	19.9	26.8	24.7	25.8
16	22.4	21.2	21.8	22.5	19.9	21.2	21.8	20.0	20.8	27.1	25.7	26.4
17	22.9	21.5	22.2	22.3	20.1	21.3	24.5	21.3	22.6	27.9	25.8	26.8
18	22.8	21.9	22.3	21.2	20.2	20.8	26.1	23.3	24.5	27.7	26.6	27.1
19	22.3	19.9	20.9	21.4	19.4	20.3	27.0	24.7	25.7	27.8	26.1	27.2
20	20.0	18.3	19.1	21.0	18.3	19.6	26.6	25.3	25.8	26.1	22.3	23.3
21	20.3	17.8	18.9	20.3	19.8	20.0	25.8	23.1	24.5	26.1	23.4	24.6
22	20.5	19.0	19.7	21.7	20.3	20.9	24.8	22.5	23.6	28.2	25.4	26.6
23	20.1	18.9	19.5	23.2	20.9	21.9	24.6	23.2	23.9	27.9	25.3	26.1
24	20.6	19.4	20.0	24.0	22.3	23.1	26.2	23.7	25.0	27.2	25.9	26.9
25	21.4	20.2	20.8	24.8	22.7	23.7	26.1	23.6	25.0	29.3	26.6	27.8
26	21.3	19.9	20.8	25.0	23.5	24.2	26.4	23.9	25.3	29.6	28.0	28.8
27	20.6	18.6	19.5	26.1	23.7	24.7	26.7	24.4	25.6	30.0	28.4	29.1
28	20.2	18.1	19.2	24.8	23.3	23.9	27.2	24.9	26.1	29.5	26.5	28.6
29	20.4	18.9	19.7	25.5	23.5	24.4	26.9	25.1	25.9	29.5	27.7	28.6
30	---	---	---	25.9	23.6	24.7	26.1	25.0	25.4	30.3	28.2	29.1
31	---	---	---	24.4	22.5	23.4	---	---	---	30.3	28.2	29.2
MONTH	22.9	12.3	18.5	26.1	18.3	21.8	27.2	18.2	22.5	30.3	19.4	26.0

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.0	28.3	29.1	30.7	27.7	29.8	29.5	26.1	27.9	---	---	---
2	29.4	25.6	28.7	31.1	27.7	29.9	30.0	27.1	28.6	---	---	---
3	30.1	28.4	29.0	31.3	26.6	30.0	30.3	28.1	29.1	---	---	---
4	28.7	26.8	27.5	30.9	29.0	29.8	29.7	28.7	29.3	---	---	---
5	27.5	24.4	25.8	30.2	28.5	29.4	30.7	28.5	29.5	---	---	---
6	27.8	25.0	26.2	30.4	28.1	29.2	31.9	28.9	30.2	30.6	29.0	29.8
7	27.8	26.8	27.2	30.9	28.6	29.7	31.1	29.4	30.2	30.1	28.6	29.3
8	27.0	26.0	26.4	31.3	29.1	30.1	30.7	29.4	30.0	29.2	27.9	28.4
9	27.0	26.1	26.5	31.5	29.3	30.4	30.9	28.6	29.6	28.9	27.6	28.2
10	27.0	25.8	26.4	30.8	29.4	30.0	31.6	29.0	30.1	29.2	27.8	28.4
11	27.8	26.3	27.0	31.6	28.8	30.0	32.0	29.5	30.6	29.8	28.0	28.8
12	29.4	26.8	27.9	32.2	28.7	30.5	31.7	29.2	30.4	29.8	28.6	29.1
13	29.3	27.2	28.1	32.2	28.2	30.5	32.1	29.7	30.8	29.5	27.1	28.0
14	29.1	27.5	28.2	32.3	29.4	30.7	30.9	29.5	30.2	27.9	27.1	27.6
15	30.1	27.6	28.7	32.5	27.4	30.3	31.1	29.4	30.1	28.5	26.3	27.4
16	29.8	28.2	29.0	32.6	29.6	30.9	31.8	29.3	30.5	28.2	26.6	27.5
17	29.6	28.0	28.7	32.4	29.9	31.0	31.6	29.3	30.4	27.1	25.2	26.1
18	28.7	27.3	27.9	32.0	29.9	30.9	31.6	29.3	30.4	26.4	24.3	25.3
19	29.2	27.9	28.5	32.4	29.6	30.9	31.5	29.0	30.2	26.8	24.7	25.7
20	29.8	27.9	28.8	32.4	29.9	31.0	31.5	28.8	30.0	28.1	26.0	26.9
21	30.4	28.4	29.4	31.9	29.9	30.8	31.2	29.1	30.1	27.7	27.1	27.4
22	31.0	28.7	29.8	31.9	29.7	30.7	30.2	27.7	29.3	28.6	26.6	27.5
23	31.3	28.9	30.1	31.7	28.1	30.2	28.9	28.1	28.5	29.7	28.0	28.6
24	31.3	29.0	30.2	29.8	28.6	29.0	29.2	27.9	28.5	30.0	28.4	29.0
25	31.2	29.3	30.3	30.4	28.2	29.3	30.3	27.8	28.8	28.8	25.1	27.0
26	30.9	27.9	29.3	30.4	28.9	29.6	30.6	28.4	29.4	25.1	23.2	24.1
27	29.8	27.9	28.8	30.8	28.1	29.4	30.3	28.7	29.5	24.2	22.0	23.0
28	30.1	28.2	29.0	31.1	28.8	29.8	31.2	28.6	29.7	24.1	21.6	22.8
29	31.0	28.6	29.6	31.1	29.0	29.9	---	---	30.1	24.2	21.7	22.9
30	31.1	29.4	30.2	30.6	28.9	29.7	---	---	---	24.5	22.1	23.2
31	---	---	---	29.9	26.1	28.5	---	---	---	---	---	---
MONTH	31.3	24.4	28.4	32.6	26.1	30.1	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.8	4.1	5.0	6.3	4.1	5.2	7.9	7.2	7.6	8.1	7.7	7.9
2	5.7	4.2	5.1	7.4	6.3	7.0	9.0	5.9	7.4	7.9	7.1	7.6
3	5.6	4.1	4.9	7.8	7.2	7.5	6.4	4.7	5.5	7.4	6.8	7.2
4	5.8	4.0	4.8	7.9	7.1	7.6	7.3	4.4	5.6	8.6	7.0	7.9
5	6.2	4.2	5.2	7.7	7.1	7.4	6.9	5.4	6.2	9.4	8.6	9.2
6	6.4	4.2	5.4	7.4	6.6	7.0	8.0	6.9	7.6	9.6	8.4	9.1
7	6.6	5.4	6.1	7.7	6.8	7.3	8.3	8.0	8.2	9.2	8.4	9.0
8	6.6	4.9	5.9	8.0	7.2	7.6	8.1	7.2	7.8	11.9	7.1	8.8
9	6.4	4.2	5.4	8.4	7.3	7.9	7.4	5.9	7.0	8.6	7.1	8.1
10	5.0	2.3	3.6	8.1	7.0	7.6	7.2	5.9	6.7	9.1	8.6	8.9
11	6.0	4.6	5.3	7.9	6.8	7.4	6.5	2.9	5.8	9.1	8.0	8.6
12	5.8	4.2	5.4	7.7	6.6	7.2	7.8	2.9	5.9	9.2	7.8	8.5
13	6.4	4.9	5.6	8.0	6.8	7.4	6.9	5.6	6.0	7.9	7.3	7.6
14	6.2	4.8	5.6	8.4	7.0	7.7	7.1	5.9	6.7	8.3	7.4	7.8
15	5.8	4.7	5.3	8.6	7.0	8.1	7.4	5.9	6.8	8.4	7.3	8.0
16	5.6	4.4	5.0	8.8	7.7	8.1	7.7	5.5	6.6	8.2	7.5	7.9
17	5.9	4.7	5.2	9.0	7.4	8.2	7.9	2.5	5.9	8.5	7.6	8.0
18	6.1	5.0	5.6	9.3	8.0	8.6	6.4	3.4	5.3	8.4	7.6	8.0
19	6.4	5.1	5.9	8.3	7.1	7.8	6.4	1.7	4.6	8.2	6.5	7.7
20	7.3	5.1	6.2	8.5	6.3	7.4	6.1	1.8	4.4	8.3	6.6	7.6
21	8.0	6.9	7.2	8.7	7.3	8.0	7.5	4.0	5.9	8.5	4.0	7.6
22	7.3	4.8	6.9	11.0	4.6	7.4	7.8	6.9	7.5	8.8	6.0	7.8
23	---	---	---	7.6	3.8	5.6	8.4	7.7	8.2	7.9	6.9	7.5
24	---	---	---	7.4	5.2	6.6	9.1	8.1	8.6	8.7	6.8	8.1
25	---	---	---	8.1	7.1	7.7	8.8	8.3	8.6	9.3	6.8	8.3
26	---	---	---	9.0	7.3	8.2	8.9	7.9	8.5	9.4	3.6	8.0
27	---	---	---	10.0	7.6	9.0	8.6	8.1	8.3	12.0	2.1	7.7
28	---	---	---	9.3	4.6	8.1	8.5	8.1	8.3	11.1	10.0	10.7
29	---	---	---	9.1	2.8	7.4	8.6	8.1	8.4	11.8	11.1	11.6
30	7.3	4.9	6.1	9.2	5.1	7.5	8.6	8.0	8.2	11.8	10.9	11.4
31	5.8	3.7	4.7	---	---	---	8.2	7.7	7.9	10.9	10.0	10.6
MONTH	---	---	---	11.0	2.8	7.5	9.1	1.7	7.0	12.0	2.1	8.5

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.1	8.5	9.3	7.2	6.6	7.0	5.8	2.8	5.0	---	---	---
2	8.6	7.5	7.9	7.2	6.6	6.9	9.0	4.5	5.8	---	---	---
3	8.6	7.5	8.1	7.5	6.3	6.9	7.4	5.1	6.6	---	---	---
4	8.3	7.5	7.8	8.2	6.9	7.6	6.0	5.2	5.5	---	---	---
5	8.5	6.0	7.7	8.8	7.3	8.0	6.0	5.6	5.8	---	---	---
6	8.6	3.9	7.3	8.5	7.4	7.8	5.9	5.6	5.8	---	---	---
7	10.0	6.2	8.2	8.1	5.7	7.2	5.9	5.4	5.7	---	---	---
8	7.9	7.1	7.6	7.7	5.7	6.8	5.4	3.4	4.2	---	---	---
9	8.2	7.5	8.0	7.6	6.2	6.8	4.0	3.0	3.5	---	---	---
10	8.3	6.3	8.0	---	---	---	3.6	2.2	3.1	---	---	---
11	8.1	6.9	7.7	---	---	---	3.8	2.2	3.1	---	---	---
12	7.9	7.5	7.8	---	---	---	8.9	3.2	6.1	---	---	---
13	7.6	7.1	7.4	---	---	---	6.5	4.5	5.2	---	---	---
14	7.8	7.1	7.5	7.9	6.8	7.2	6.1	5.5	5.8	---	---	---
15	8.0	7.4	7.7	10.4	5.6	6.4	6.1	5.8	5.9	---	---	---
16	7.9	6.6	7.5	6.1	5.5	5.7	5.8	4.6	5.3	---	---	---
17	7.9	5.5	7.2	6.3	4.9	6.1	5.1	4.3	4.6	7.6	5.4	6.5
18	7.8	5.2	7.3	6.9	5.6	6.4	5.0	3.7	4.4	8.4	5.4	6.7
19	8.7	7.4	7.9	7.0	6.2	6.6	5.4	3.2	4.4	7.3	5.3	6.4
20	9.5	7.8	8.6	6.9	5.5	6.5	5.5	2.6	4.6	8.6	5.9	6.8
21	9.5	7.3	8.8	6.6	4.9	6.0	6.1	4.4	5.2	5.9	5.2	5.5
22	8.8	7.2	8.3	6.2	4.5	5.9	5.7	3.3	4.8	5.4	4.7	5.1
23	8.6	4.8	7.0	6.5	5.2	5.9	5.5	4.4	5.0	6.2	4.9	6.0
24	7.0	5.3	6.5	6.0	5.0	5.5	5.9	4.6	5.3	6.0	5.5	5.7
25	6.9	5.3	6.5	5.5	4.2	5.0	6.1	4.7	5.3	---	---	---
26	6.9	4.7	6.3	5.2	1.5	4.5	5.8	4.3	5.0	---	---	---
27	7.6	5.7	6.7	5.5	3.9	4.5	5.8	4.2	5.0	---	---	---
28	7.7	4.3	7.1	5.9	.9	4.9	6.1	4.4	5.3	---	---	---
29	7.6	6.5	7.3	6.2	2.1	5.1	5.4	4.1	4.8	---	---	---
30	---	---	---	6.5	4.9	5.6	5.3	4.1	4.8	---	---	---
31	---	---	---	6.7	3.5	5.5	---	---	---	---	---	---
MONTH	10.1	3.9	7.6	---	---	---	9.0	2.2	5.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	6.1	6.9	---	---	---	5.1	3.8	4.4	---	---	---
2	7.7	6.2	6.9	---	---	---	7.0	4.2	5.1	---	---	---
3	6.9	4.8	6.0	---	---	---	4.6	1.6	3.4	---	---	---
4	6.3	4.9	5.9	9.1	6.2	7.5	4.7	1.4	3.2	---	---	---
5	9.1	5.3	6.5	8.1	5.5	6.9	5.5	1.9	4.1	---	---	---
6	5.8	5.2	5.7	6.9	5.2	6.0	6.7	2.7	4.5	2.4	.0	.7
7	6.5	5.3	6.2	7.3	5.5	6.3	6.5	1.8	4.3	2.9	.1	1.5
8	6.6	5.6	6.2	7.8	5.9	6.7	6.1	.5	3.8	4.2	.1	1.5
9	7.3	5.5	6.1	9.2	5.9	7.3	5.8	2.4	4.3	4.9	.2	1.8
10	6.4	5.0	5.4	8.2	2.1	6.3	6.2	2.6	4.8	7.4	.0	2.3
11	6.7	5.5	6.1	7.8	4.1	5.9	6.5	.7	4.8	5.6	.1	3.0
12	6.6	4.8	5.7	9.1	5.0	6.9	6.0	2.6	4.5	5.1	.0	2.9
13	5.6	5.0	5.4	9.5	5.8	7.5	5.5	.6	3.9	6.8	1.7	5.6
14	5.7	5.0	5.4	10.2	6.2	8.1	5.9	.8	4.0	5.3	2.9	4.2
15	5.6	4.9	5.3	11.0	6.2	8.4	6.2	1.5	4.9	5.0	3.8	4.4
16	5.6	4.7	5.1	10.1	6.3	7.9	7.8	3.8	6.2	6.0	4.9	5.4
17	5.6	3.2	4.7	11.0	6.4	8.1	8.0	6.3	7.0	6.1	5.2	5.6
18	4.6	2.9	3.7	10.9	6.2	8.1	8.6	6.3	7.2	7.0	5.5	6.2
19	4.5	3.6	4.0	10.8	6.0	7.9	8.9	6.5	7.4	7.1	5.8	6.3
20	4.0	3.6	3.8	11.1	6.3	8.2	9.1	6.2	7.3	7.4	6.0	6.5
21	---	---	---	10.3	6.6	8.2	9.1	5.9	7.1	6.5	4.9	5.8
22	---	---	---	10.0	6.7	8.1	8.7	3.2	5.7	5.9	4.2	4.9
23	---	---	---	9.8	4.7	7.6	4.7	.4	2.7	5.9	4.3	5.1
24	---	---	---	4.7	.2	1.7	6.2	2.0	5.0	6.3	5.4	5.8
25	---	---	---	7.0	1.9	5.0	6.8	1.7	5.6	6.7	5.4	6.0
26	---	---	---	7.7	5.2	6.3	6.9	2.7	5.8	7.2	6.3	6.7
27	---	---	---	7.7	2.5	6.3	7.0	2.4	5.9	7.9	6.5	7.1
28	---	---	---	10.7	5.2	7.3	6.6	3.8	5.4	8.2	6.7	7.3
29	---	---	---	9.2	5.4	7.2	---	---	---	8.3	6.6	7.3
30	---	---	---	7.7	5.1	6.2	---	---	---	8.2	6.2	7.1
31	---	---	---	8.4	4.4	6.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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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 mi^2.

PERIOD OF RECORD.--Apr 1964 to Sep 1986 (daily mean discharge), Oct 1986 to Sep 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 fair. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--22 years (water years 1965-86), 8.08 ft^3/s, (5,850 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,860 ft^3/s Sep 11, 1998 (gage height, 80.86 ft); no flow at times.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0630	915	74.96	May 2	0345	657	73.88

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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 mi^2.

PERIOD OF RECORD.--Aug 1964 to Sep 1981 (daily mean discharge), Oct 1982 to Sep 1983 (peak discharges greater than base discharge or annual maximum), Oct 1983 to Sep 1992 (annual maximum), Oct 1992 to current year (peak discharges greater than base discharge).
Water-quality records.--Chemical data: Oct 1981 to Sep 1982. Biochemical data: Oct 1981 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--17 years (1965-1981), 14.0 ft^3/s (10,140 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,580 ft^3/s Mar 4, 1992, gage height, 71.26 ft; no flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge.							

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08074500 WHITEOAK BAYOU AT HOUSTON, TX

LOCATION.--Lat 29°46'30", long 95°23'49", Harris County, Hydrologic Unit 12040104, at downstream side of downstream bridge on Heights Boulevard in Houston, 560 ft downstream from Texas and New Orleans Railroad Co. bridge, 2.4 mi upstream from Little Whiteoak Bayou, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--86.3 mi^2.

PERIOD OF RECORD.--May 1936 to current year.
Water-quality records.--Chemical data: Oct 1968 to Sep 1998. Biochemical data: Oct 1968 to Sep 1998. Pesticide data: Feb 1969 to Sep 1998.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.35 ft below sea level, adjustment of 1973; unadjusted for land-surface subsidence. Prior to Jun 17, 1936, nonrecording gage, and Jun 17, 1936, to Apr 28, 1965, water-stage recorder at site 480 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Low flow is sustained by wastewater effluent. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1919, 51.5 ft Dec 9, 1935, prior to channel rectification, present site and datum (discharge, 14,750 ft^3/s), furnished by the engineer for Harris County. The flood of May 31, 1929, reached a stage of 47.0 ft, prior to channel rectification, present site and datum (discharge, 9,360 ft^3/s) computed on basis of current-meter measurement at stage 1.0 ft below crest, furnished by city of Houston.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0730	5,210	28.54	May 3	1915	7,620	31.99
May 2	0830	4,620	27.61	May 20	0145	5,060	28.31

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	41	34	37	87	39	30	160	38	38	174	38
2	38	36	76	38	51	33	2080	2190	43	36	121	80
3	38	34	50	39	36	32	1250	1140	210	33	56	48
4	38	37	636	38	34	32	162	736	55	218	38	38
5	44	36	225	36	31	33	57	651	335	137	33	36
6	35	34	52	39	32	34	39	113	51	42	32	34
7	32	35	39	39	294	35	35	58	37	40	31	33
8	37	35	37	262	126	36	54	47	54	38	173	33
9	37	33	93	87	40	33	33	44	182	37	103	74
10	89	34	60	46	40	34	32	52	271	36	37	48
11	44	34	38	41	36	171	31	51	98	35	33	44
12	36	35	242	35	32	38	1090	51	62	38	40	62
13	35	35	79	35	33	33	183	51	40	37	e35	336
14	35	36	39	34	32	257	55	52	38	39	e35	232
15	33	37	38	35	30	223	39	53	35	37	35	77
16	36	35	36	35	33	53	35	54	33	38	34	43
17	37	35	35	35	34	35	36	45	224	40	34	38
18	38	35	41	35	33	33	33	40	77	38	32	34
19	102	38	41	34	33	39	34	305	58	36	31	33
20	47	42	51	32	36	34	34	2380	48	34	32	36
21	37	34	50	32	36	34	33	264	35	36	34	53
22	36	310	37	33	35	49	33	107	36	38	58	282
23	37	598	43	34	556	36	34	61	38	259	54	54
24	38	109	36	35	98	33	36	46	39	154	42	37
25	40	192	36	34	44	33	39	43	35	49	41	36
26	38	42	35	33	92	33	34	41	369	41	38	32
27	34	36	33	440	43	33	34	38	246	38	37	31
28	37	34	33	315	44	29	37	61	97	39	36	33
29	36	35	34	49	34	31	38	39	43	38	35	35
30	77	34	36	38	---	31	38	48	33	59	34	33
31	85	---	38	37	---	30	---	37	---	304	36	---
TOTAL	1365	2141	2353	2092	2085	1629	5698	9058	2960	2082	1584	2023
MEAN	44.0	71.4	75.9	67.5	71.9	52.5	190	292	98.7	67.2	51.1	67.4
MAX	102	598	636	440	556	257	2080	2380	369	304	174	336
MIN	32	33	33	32	30	29	30	37	33	33	31	31
AC-FT	2710	4250	4670	4150	4140	3230	11300	17970	5870	4130	3140	4010

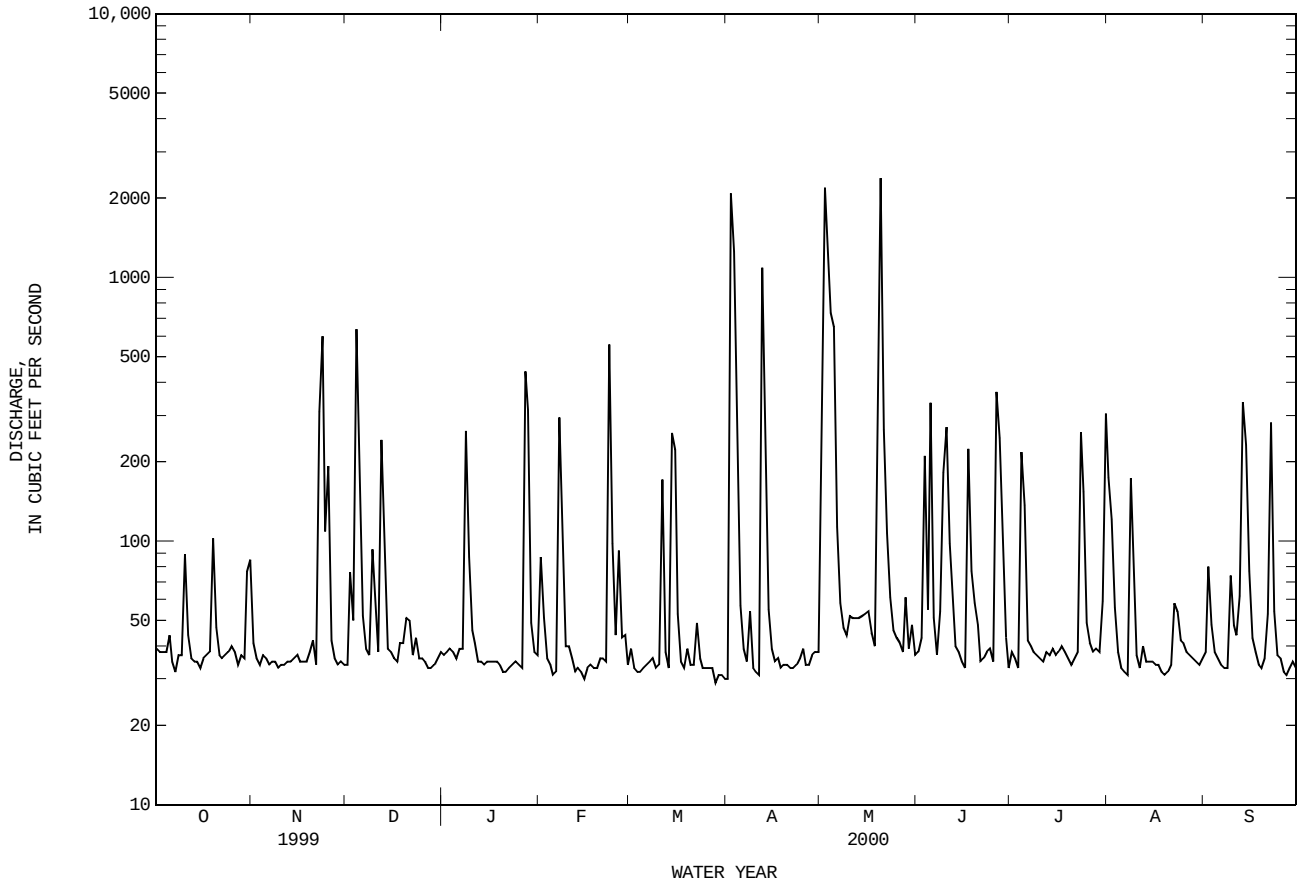
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2000, BY WATER YEAR (WY)

MEAN	92.2	111	101	115	115	96.2	94.3	130	120	78.4	74.5	100
MAX	560	774	378	437	472	517	436	558	556	439	535	684
(WY)	1995	1947	1992	1944	1992	1992	1997	1989	1973	1942	1983	1998
MIN	.71	.93	2.22	1.70	5.12	1.10	1.35	.75	2.93	2.19	.61	1.07
(WY)	1949	1940	1949	1940	1951	1940	1939	1937	1954	1944	1940	1948

08074500 WHITEOAK BAYOU AT HOUSTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1936 - 2000	
ANNUAL TOTAL	39956		35070			
ANNUAL MEAN	109		95.8		103	
HIGHEST ANNUAL MEAN					267	1992
LOWEST ANNUAL MEAN					10.9	1951
HIGHEST DAILY MEAN	2550	Mar 19	2380	May 20	13200	Sep 11 1998
LOWEST DAILY MEAN	32	Sep 8	29	Mar 28	.20	Aug 7 1940
ANNUAL SEVEN-DAY MINIMUM	33	Sep 10	31	Mar 26	.26	Aug 12 1951
INSTANTANEOUS PEAK FLOW			7620	May 3	25100	Mar 4 1992
INSTANTANEOUS PEAK STAGE			31.99	May 3	50.43	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	79250		69560		74300	
10 PERCENT EXCEEDS	229		182		206	
50 PERCENT EXCEEDS	42		38		30	
90 PERCENT EXCEEDS	35		33		2.3	

e Estimated



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 mi^2.

PERIOD OF RECORD.--Nov 1992 to current year (gage-height only).
Water-quality records.--Specific conductance: May 1992 to Sep 1997. Water temperature: May 1992 to Sep 1997. Dissolved oxygen: May 1992 to Sep 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 32.75 ft, Sep 11, 1998; minimum gage height, -1.57 ft, Aug 14, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.12 ft, May 20; minimum gage height, -.16 ft, Jan 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.97	3.42	3.76	2.05	4.33	3.52	3.72	1.78	4.23	2.66	4.17	2.58
2	5.10	3.41	2.90	1.29	5.50	3.51	4.10	2.43	4.06	2.10	4.31	2.56
3	5.20	3.24	4.35	1.24	5.39	4.03	4.32	2.24	3.76	1.89	4.34	2.17
4	4.95	3.19	4.42	3.07	6.50	3.83	3.25	-.16	3.37	1.19	3.43	1.38
5	4.88	3.18	4.15	3.00	5.26	1.69	3.80	1.55	3.43	1.67	4.06	2.49
6	5.02	3.20	4.16	2.75	3.70	1.57	4.37	2.83	3.60	2.09	4.24	3.09
7	5.34	3.75	3.96	2.35	4.57	2.66	4.38	3.00	3.59	2.63	4.61	3.41
8	5.39	3.98	4.06	2.31	4.75	3.36	5.08	2.60	3.59	1.78	4.53	3.42
9	5.25	3.77	4.28	2.74	4.77	2.30	4.12	2.29	3.40	2.32	4.10	3.03
10	4.76	3.27	4.39	2.79	3.76	1.57	3.90	2.05	3.73	2.66	4.38	2.89
11	4.50	2.84	4.39	2.62	4.78	3.25	3.49	2.18	3.77	2.53	4.45	1.66
12	4.74	3.10	4.31	2.39	4.97	2.53	3.68	2.49	3.65	2.18	4.10	1.32
13	4.80	3.11	4.31	2.78	3.17	.97	3.75	2.35	4.11	2.28	4.53	2.71
14	4.63	2.96	4.34	2.60	3.37	2.13	4.25	2.18	4.19	2.38	5.41	2.78
15	4.62	3.28	3.95	2.15	3.17	1.06	4.54	3.37	4.13	2.04	7.17	3.55
16	4.78	3.25	4.07	2.93	3.66	1.82	4.00	2.60	4.18	2.40	4.43	---
17	4.59	2.24	4.28	3.18	4.14	3.00	3.92	1.99	4.58	2.61	4.15	---
18	3.86	2.49	4.41	3.37	4.58	2.71	3.91	1.84	4.55	2.56	4.34	2.64
19	3.63	2.10	4.52	3.07	4.18	2.54	4.00	1.82	3.79	1.47	4.38	1.44
20	3.45	1.95	4.09	2.72	4.28	2.47	3.86	1.30	3.83	2.16	4.77	2.17
21	4.15	2.94	4.69	2.91	4.20	2.11	4.40	2.27	4.16	2.77	5.39	4.09
22	4.12	2.53	5.39	3.55	4.28	1.57	4.65	2.79	4.39	3.36	5.22	3.72
23	3.96	2.05	5.95	3.30	3.86	1.93	4.43	1.94	5.26	3.78	4.92	3.31
24	4.35	2.57	4.12	1.71	3.83	1.27	3.38	1.35	4.64	2.94	4.41	2.79
25	4.17	2.35	4.06	1.41	3.38	1.61	3.43	2.16	4.83	3.48	4.28	2.57
26	4.07	2.36	3.79	2.18	3.56	1.44	4.19	2.28	4.75	3.08	4.27	2.39
27	4.07	2.30	4.13	2.34	3.10	---	6.20	3.65	3.64	1.98	4.23	2.58
28	4.16	2.39	4.15	2.34	---	---	4.37	2.03	4.64	2.61	4.82	2.67
29	4.64	3.01	3.94	2.19	---	1.88	2.89	1.13	4.51	3.16	4.84	2.98
30	4.86	2.39	3.89	2.96	3.49	2.19	3.47	1.65	---	---	4.11	2.28
31	4.16	2.27	---	---	3.28	1.79	4.29	2.31	---	---	4.89	2.93
MONTH	5.39	1.95	5.95	1.24	---	---	6.20	-.16	5.26	1.19	7.17	---

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.11	3.55	5.85	3.64	4.70	2.64	4.39	2.16	4.33	2.22	3.79	2.37
2	11.79	3.89	11.57	4.00	4.62	2.50	4.46	1.96	5.62	2.38	3.77	2.33
3	9.62	3.24	11.62	3.44	4.46	2.30	4.72	2.37	4.20	2.56	3.57	1.87
4	3.60	1.37	7.70	3.53	4.55	2.30	4.83	2.54	4.15	2.53	3.42	2.01
5	4.69	2.87	6.66	4.05	5.37	2.36	4.60	2.79	3.80	2.70	3.86	2.25
6	4.91	3.66	5.38	3.07	3.96	1.70	4.39	2.66	3.83	2.49	4.32	2.78
7	4.48	2.90	5.51	3.23	4.58	2.80	4.05	2.55	3.87	2.62	4.93	3.13
8	3.95	1.78	5.53	3.53	5.37	3.37	3.97	2.70	4.64	2.79	4.61	3.18
9	4.80	1.96	5.47	3.82	5.37	3.42	4.14	2.65	4.35	2.78	4.96	3.04
10	5.29	3.23	4.86	3.06	5.30	4.27	4.12	2.56	4.19	2.29	4.87	3.32
11	4.83	2.81	4.96	3.23	5.16	3.75	4.12	2.45	4.07	2.07	4.54	2.96
12	9.59	3.07	5.01	3.67	4.60	3.12	3.89	2.25	3.95	2.16	4.78	2.99
13	5.18	2.31	4.41	2.88	4.59	2.95	3.62	1.96	4.16	2.13	5.19	3.51
14	4.73	2.92	4.46	2.95	4.94	2.97	3.45	1.74	4.77	2.67	4.60	3.17
15	4.94	3.69	4.58	3.21	4.49	2.89	3.45	1.56	4.55	2.90	4.56	2.83
16	4.70	3.35	4.71	3.19	5.04	3.07	3.96	1.69	3.80	2.35	4.62	3.24
17	4.00	2.90	5.27	3.35	5.81	3.40	4.06	2.05	3.93	2.19	4.77	3.08
18	4.08	2.69	5.62	3.57	5.40	3.15	4.11	2.02	3.79	2.63	4.65	3.22
19	4.50	2.53	7.41	3.51	4.93	2.97	3.71	2.03	3.55	2.37	4.88	3.40
20	4.59	2.76	12.12	4.10	5.00	3.09	3.83	1.99	3.75	2.66	4.93	2.89
21	3.51	1.91	4.51	2.67	4.59	2.98	3.72	2.02	3.66	2.62	4.84	3.03
22	4.82	2.07	4.34	2.49	4.52	2.49	3.64	2.28	3.89	2.57	5.25	3.16
23	5.43	3.37	5.00	2.99	4.16	2.52	4.72	2.64	4.67	2.70	4.82	3.21
24	4.77	2.95	4.86	3.59	4.25	3.00	3.70	2.50	4.36	2.31	4.88	2.72
25	4.23	2.20	4.92	2.94	4.53	3.00	4.11	2.63	4.25	2.31	2.91	1.51
26	4.44	2.54	5.21	3.71	6.40	3.04	4.16	2.42	4.19	2.21	3.91	1.19
27	4.64	2.55	4.75	3.69	3.94	2.87	4.08	2.25	4.46	2.38	4.02	2.52
28	4.01	2.50	4.54	2.58	4.20	2.56	4.37	2.29	4.26	2.62	4.13	2.82
29	4.53	2.65	3.99	2.71	4.09	2.33	4.37	2.18	4.17	2.45	4.59	2.94
30	5.72	3.95	3.90	2.61	4.38	2.02	4.20	2.17	3.53	2.29	4.56	2.87
31	---	---	4.34	2.43	---	---	5.34	1.92	3.81	2.11	---	---
MONTH	11.79	1.37	12.12	2.43	6.40	1.70	5.34	1.56	5.62	2.07	5.25	1.19

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX

LOCATION.--Lat 29°45′57", long 95°21′07", Harris County, Hydrologic Unit 12040104, on left bank at McKee Street bridge over Buffalo Bayou, 0.8 mi downstream from Whiteoak Bayou at Main Street (station 08074598) and 5.5 mi upstream from Buffalo Bayou at Turning Basin (station 08074710).

DRAINAGE AREA.--469 mi^2.

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--Feb 1992 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 good. Mostly tidal, affected by local runoff.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 26.3 ft, Sep 11, 1998; minimum elevation, -2.4 ft Jan 19, 1996 and Mar 9, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 9.0 ft, May 20; minimum elevation, -1.7 ft, Jan 4.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.1	1.6	1.9	.2	2.5	1.6	1.9	.0	2.4	.8	2.4	.8
2	3.3	1.6	1.1	-.6	3.7	1.6	2.3	.7	2.2	.2	2.5	.8
3	3.4	1.4	2.5	-.6	3.6	2.3	2.5	.4	1.9	.0	2.5	.4
4	3.1	1.4	2.6	1.3	4.0	2.0	1.4	-1.7	1.6	-.4	1.6	-.4
5	3.1	1.4	2.3	1.2	3.2	-.2	2.0	-.3	1.7	-.1	2.3	.7
6	3.2	1.4	2.4	.9	1.9	-.2	2.6	1.0	1.8	.4	2.4	1.3
7	3.6	1.9	2.1	.6	2.8	.9	2.6	1.2	1.8	.7	2.8	1.6
8	3.6	2.2	2.2	.5	3.0	1.6	3.2	.7	1.8	.1	2.7	1.6
9	3.4	2.0	2.5	.9	3.0	.5	2.2	.5	1.6	.5	2.3	1.2
10	2.9	1.5	2.6	1.0	1.9	-.2	2.1	.2	1.9	.9	2.6	1.1
11	2.7	1.1	2.6	.8	3.0	1.4	1.6	.4	1.9	.8	2.5	-.2
12	2.9	1.3	2.5	.6	3.2	.7	1.8	.7	1.9	.4	2.3	-.5
13	3.0	1.3	2.5	1.0	1.3	-.9	1.9	.5	2.3	.5	2.7	.8
14	2.8	1.2	2.5	.8	1.5	.3	2.4	.4	2.4	.6	3.3	.9
15	2.8	1.5	2.1	.3	1.4	-.8	2.7	1.5	2.4	.3	5.1	1.7
16	3.0	1.5	2.2	1.1	1.8	-.1	2.2	.8	2.4	.6	2.6	.9
17	2.8	.4	2.4	1.4	2.2	1.1	2.1	.2	2.8	.8	2.3	.2
18	2.0	.6	2.6	1.5	2.6	.8	2.1	.0	2.8	.7	2.6	.9
19	1.8	.2	2.6	1.3	2.3	.6	2.2	.0	2.0	-.3	2.6	-.3
20	1.6	.1	2.3	.9	2.4	.5	2.0	-.6	2.0	.4	3.0	.4
21	2.4	1.1	2.9	1.1	2.3	.2	2.6	.5	2.4	1.0	3.6	2.3
22	2.3	.7	3.5	1.8	2.3	-.4	2.8	1.0	2.6	1.5	3.5	1.9
23	2.1	.2	3.9	1.3	1.9	.0	2.6	.1	3.3	1.9	3.1	1.5
24	2.5	.7	2.3	-.1	1.9	-.6	1.5	-.5	2.8	1.1	2.7	1.0
25	2.4	.5	2.2	-.4	1.4	-.3	1.6	.3	3.1	1.7	2.5	.8
26	2.2	.5	1.9	.4	1.6	-.5	2.3	.4	3.0	1.3	2.5	.6
27	2.2	.5	2.3	.6	1.1	---	3.9	1.8	1.8	.2	2.5	.8
28	2.3	.6	2.3	.5	.8	-.5	2.1	.1	2.9	.8	3.1	.9
29	2.8	1.2	2.1	.4	1.1	.1	1.0	-.8	2.7	1.3	3.1	1.2
30	3.1	.5	2.0	1.1	1.7	.4	1.6	-.2	---	---	2.3	.5
31	2.4	.5	---	---	1.5	-.1	2.4	.5	---	---	3.0	1.2
MONTH	3.6	.1	3.9	-.6	4.0	---	3.9	-1.7	3.3	-.4	5.1	-.5

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.2	1.7	4.0	1.8	2.9	.8	2.6	.3	2.5	.4	2.0	.6
2	8.6	2.0	8.3	2.2	2.8	.7	---	---	3.4	.5	1.9	.5
3	6.5	1.2	8.4	1.4	2.7	.5	3.0	---	2.4	.8	1.7	-.1
4	1.6	-.5	5.1	1.6	2.7	.4	3.0	.8	2.4	.7	1.5	.2
5	2.6	.8	4.2	2.0	2.6	.5	2.8	1.0	2.0	.9	2.0	.4
6	2.9	1.5	3.5	1.2	2.1	-.1	2.6	.8	2.1	.7	2.5	.9
7	2.6	.9	3.6	1.3	2.7	.8	2.3	.8	2.1	.8	3.1	1.3
8	2.1	-.2	3.6	1.5	3.6	1.5	2.1	.9	2.9	1.0	2.8	1.3
9	2.9	.0	3.6	1.8	3.6	1.6	2.3	.9	2.5	1.0	3.1	1.2
10	3.4	1.3	3.1	1.2	3.5	2.3	2.3	.8	2.4	.5	3.1	1.5
11	2.9	.9	3.2	1.5	3.3	1.9	2.3	.6	2.2	.2	2.7	1.1
12	6.3	1.2	3.2	1.9	2.8	1.2	2.1	.4	2.1	.3	3.0	1.2
13	2.8	.3	2.6	1.0	2.7	1.1	1.8	.1	2.3	.2	3.2	1.7
14	2.7	.8	2.6	1.1	3.1	1.2	1.6	-.1	2.9	.8	2.8	1.3
15	3.0	1.7	2.7	1.4	2.7	.7	1.7	-.3	2.7	1.0	2.8	1.0
16	2.8	1.5	2.9	1.4	3.2	1.2	2.2	-.2	1.9	.4	2.8	1.5
17	2.1	1.0	3.4	1.5	3.9	1.6	2.3	.2	2.1	.3	2.9	1.3
18	2.2	.8	3.8	1.7	3.6	1.3	2.4	.2	1.9	.7	2.9	1.4
19	2.8	.8	5.0	1.7	3.1	1.1	1.9	.2	1.7	.5	3.1	1.6
20	2.8	1.0	9.0	2.2	3.2	1.3	2.1	.2	1.9	.8	3.1	1.1
21	1.6	.1	2.7	.8	2.7	1.2	1.9	.2	1.8	.8	3.0	1.2
22	2.9	.2	2.5	.7	2.6	---	1.9	.5	2.0	.7	3.4	1.4
23	3.6	1.5	3.1	1.0	---	.6	2.6	.8	2.8	.9	3.1	1.4
24	2.9	1.0	3.0	1.5	---	---	1.9	.6	2.5	.5	3.1	.9
25	2.4	.3	3.1	1.1	---	---	2.3	.8	2.4	.5	1.1	-.3
26	2.6	.7	3.4	1.9	---	---	2.3	.6	2.4	.3	2.1	-.7
27	2.7	.7	3.0	1.9	---	---	2.3	.4	2.6	.5	2.2	.6
28	2.0	.6	2.7	.8	---	---	2.6	.5	2.4	.8	2.3	1.0
29	2.6	.8	2.2	.9	---	---	2.6	.3	2.3	.6	2.8	1.1
30	3.9	2.1	2.1	.8	2.6	---	2.4	.3	1.7	.4	2.7	1.0
31	---	---	2.5	.6	---	---	3.3	.1	2.0	.2	---	---
MONTH	8.6	-.5	9.0	.6	---	---	---	---	3.4	.2	3.4	-.7

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Feb 1992 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Feb 1992 to Sep 2000 (discontinued).
pH: Oct 1998 to Sep 2000 (discontinued).
WATER TEMPERATURE: Feb 1992 to Sep 2000 (discontinued).
DISSOLVED OXYGEN: Feb 1992 to Sep 2000 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Feb 1992.

REMARKS.--Interruption in the record was caused by malfunctions of the instrumentation. Due to tidal effects, probe location, and channel morphology, the water-quality data collected at this location may not be representative of the entire flow through the cross-section. Prior to Oct 1, 1999, maximum specific conductance recorded by instrument was <2,000 microsiemens. Specific conductance was >2,000 microsiemens, Nov 22, 23, 1996, and Sep 29, 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 2,780 microsiemens, on Jan 21, 2000; minimum 30 microsiemens, May 25, 1997.
pH: Maximum, 8.9 units, May 23, 1999; minimum, 6.6 units, on Nov 6, 24, 1998.
WATER TEMPERATURE: Maximum 36.8°C, on Jul 29, 1999; minimum, 5.5°C, on Jan 13-15, 1997.
DISSOLVED OXYGEN: Maximum, 17.4 mg/L, May 23, 1999; minimum, 0.1 mg/L, on several days in 1995, 1996, 1999.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,780 microsiemens, Jan 21; minimum, 106 microsiemens, Apr 3.
pH: Maximum, 8.8 units, Dec 26; minimum, 6.8 units, Apr 6-8, 15.
WATER TEMPERATURE: Maximum, 32.9°C, Jul 19; minimum, 9.2°C, Jan 30.
DISSOLVED OXYGEN: Maximum, 13.9 mg/L, Jan 27; minimum, 0.9 mg/L, Mar 13.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	569	359	424	775	643	703	988	815	876	1460	995	1270
2	630	552	584	962	658	801	989	387	833	1510	1030	1240
3	709	619	650	1150	766	913	610	380	508	1420	959	1180
4	793	657	716	1220	884	1050	645	220	478	1500	1090	1270
5	933	698	822	1070	844	953	335	210	259	1350	961	1110
6	1120	798	971	1170	872	1010	469	335	425	1560	993	1220
7	1180	959	---	1100	881	982	513	438	480	1420	1000	1140
8	---	---	1100	1270	926	1090	540	491	511	1150	413	732
9	---	---	---	1400	991	1140	627	521	573	605	364	501
10	1250	1000	1120	1360	1020	1200	619	544	578	514	397	462
11	1200	775	1000	1500	1100	1260	616	588	606	556	498	525
12	1630	891	1100	1540	1150	1300	625	330	497	691	548	612
13	1580	1060	1210	1640	1230	1380	458	366	398	1040	651	769
14	1280	1010	1130	1480	1140	1290	612	444	528	1300	926	1060
15	1430	1080	1200	1460	1090	1290	585	538	564	1120	841	958
16	1680	1170	1310	1620	1200	1380	659	569	603	1200	866	1000
17	1530	1110	1290	1560	1170	1370	983	659	770	1330	846	1020
18	1590	1260	1440	1510	1140	1320	1020	744	836	1430	909	1080
19	1610	834	1230	1470	1080	1280	1120	769	926	1600	1010	1240
20	879	698	776	1480	1110	1270	1320	844	1070	1770	1200	1410
21	974	703	781	1790	1100	1390	1120	870	984	2780	1300	1700
22	1100	706	821	1640	345	1050	1180	770	931	2190	1010	1360
23	1190	782	963	489	169	289	1100	781	904	1470	927	1050
24	1550	863	1090	475	243	370	1070	792	942	1280	963	1130
25	1450	950	1110	473	278	376	1340	853	1050	1260	1030	1130
26	1340	963	1100	435	345	401	1260	909	990	1210	998	1110
27	1210	904	1040	553	409	469	984	848	917	1290	268	976
28	1250	940	1090	603	537	572	1310	862	1030	351	241	280
29	1410	1010	1160	799	582	662	1180	856	988	446	305	383
30	1540	701	1170	873	727	816	1310	938	1070	437	366	408
31	724	624	673	---	---	---	1340	929	1110	514	435	486
MONTH	---	---	---	1790	169	979	1340	210	750	2780	241	962

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	577	511	544	712	636	678	1700	1010	1280	1210	558	852
2	554	511	534	821	703	738	1180	152	393	576	117	240
3	563	527	545	810	743	774	221	106	170	272	171	218
4	696	547	630	884	794	819	337	216	282	260	179	230
5	825	696	761	1030	820	875	380	180	220	285	217	254
6	980	754	850	930	816	858	211	183	199	368	285	337
7	1190	333	705	877	821	838	276	209	243	351	275	316
8	552	291	360	849	819	838	421	264	365	307	287	298
9	444	332	371	857	833	845	464	419	447	316	290	302
10	450	380	428	982	853	884	520	426	497	377	313	336
11	565	437	499	996	441	583	589	511	554	475	376	416
12	697	526	611	630	561	586	670	140	328	586	474	518
13	981	666	794	593	516	534	282	162	222	660	583	610
14	1120	792	930	714	251	581	326	243	271	728	656	698
15	1380	892	1070	388	168	334	255	227	243	752	727	736
16	1330	899	1090	381	181	279	375	231	310	760	743	751
17	1580	887	1100	563	380	489	514	373	459	771	749	758
18	1800	978	1190	554	484	528	612	485	557	794	769	778
19	1740	954	1140	640	552	610	661	588	617	821	288	765
20	1320	1040	1170	693	627	662	753	653	692	341	121	169
21	1400	970	1130	716	675	700	772	753	764	297	210	254
22	1280	1000	1090	736	704	722	888	768	804	406	297	345
23	1270	282	596	738	715	734	1160	806	889	524	201	272
24	446	320	377	751	733	740	858	803	819	260	221	231
25	431	354	386	771	736	750	1400	831	960	358	260	288
26	530	411	445	943	770	800	1330	856	957	443	358	417
27	505	422	479	814	782	796	1410	914	1050	536	438	498
28	580	505	556	1180	812	936	1310	893	1030	671	533	608
29	636	580	617	1270	898	1010	1580	917	1070	686	550	623
30	---	---	---	1400	869	1010	1340	971	1060	686	647	669
31	---	---	---	1560	953	1130	---	---	---	679	589	652
MONTH	1800	282	724	1560	168	731	1700	106	592	1210	117	466

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	695	597	647	697	607	672	412	266	357	1090	884	965
2	712	678	699	---	---	---	578	194	444	1180	825	1010
3	734	437	629	759	735	743	464	198	375	942	743	835
4	671	296	468	802	288	696	571	463	510	1100	783	841
5	332	136	232	684	326	593	673	568	628	1080	762	846
6	353	264	298	741	616	705	713	665	689	1200	811	981
7	489	245	298	616	518	549	728	694	713	1240	856	1030
8	433	270	325	633	572	600	960	371	694	1210	922	1050
9	504	320	432	685	617	649	564	484	518	1240	638	905
10	411	303	342	724	600	685	653	444	502	937	743	806
11	425	328	377	687	536	608	745	653	695	950	638	769
12	494	404	454	740	676	695	764	698	742	808	624	698
13	575	252	360	769	718	733	733	662	714	1020	231	483
14	454	361	394	798	762	781	835	689	741	470	220	363
15	534	450	496	805	782	794	897	798	848	389	264	343
16	581	534	569	817	773	796	955	801	870	513	348	434
17	731	373	547	842	793	816	969	849	884	657	511	611
18	486	312	386	863	793	828	1000	869	919	665	634	650
19	652	421	547	904	800	839	1020	893	966	800	647	726
20	456	413	435	927	826	868	1050	923	993	1230	784	893
21	478	440	472	980	843	896	1110	964	1020	1280	754	1080
22	583	513	526	968	840	895	1260	814	1050	802	341	453
23	614	569	599	950	264	756	932	643	754	513	404	430
24	696	602	655	599	375	503	759	642	711	731	513	579
25	732	684	708	569	412	472	742	666	703	843	714	770
26	769	192	601	661	480	584	768	735	747	978	444	763
27	408	216	308	719	642	666	907	756	786	1100	861	978
28	433	321	374	752	717	727	951	805	846	1180	929	1030
29	---	---	---	773	742	748	1000	799	875	1180	983	1090
30	607	533	556	797	761	771	980	801	863	1230	929	1050
31	---	---	---	981	172	617	974	835	903	---	---	---
MONTH	---	---	---	---	---	---	1260	194	744	1280	220	782

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.6	7.4	7.2	7.1	7.4	7.3	7.8	7.7	7.8	7.5	7.7	7.5
2	7.8	7.6	7.3	7.1	7.5	7.2	7.9	7.7	7.7	7.5	7.8	7.2
3	7.8	7.2	7.4	7.2	7.4	7.0	7.9	7.6	7.6	7.5	7.8	7.5
4	7.8	7.5	7.5	7.2	---	---	7.8	7.6	7.7	7.5	7.9	7.6
5	7.9	7.6	7.4	7.3	---	---	7.8	7.7	7.8	7.6	7.9	7.6
6	7.9	7.7	7.4	7.2	8.3	8.0	7.8	7.7	7.8	7.6	8.0	7.7
7	8.1	7.4	7.5	7.2	8.3	8.2	7.8	7.7	7.9	7.6	7.9	7.6
8	7.6	7.2	7.8	7.3	8.3	8.2	7.8	7.6	7.7	7.5	8.1	7.6
9	7.5	7.2	8.0	7.7	8.3	8.2	7.6	7.4	7.6	7.5	7.9	7.6
10	7.7	7.3	7.9	7.7	8.3	8.1	7.6	7.4	7.6	7.5	7.9	7.5
11	7.6	7.1	7.9	7.7	8.2	8.1	7.7	7.3	7.8	7.5	8.2	7.3
12	7.5	7.2	8.0	7.7	8.3	8.1	7.7	7.3	7.7	7.5	7.4	7.2
13	7.4	7.2	7.9	7.7	8.2	8.0	7.7	7.4	7.8	7.5	7.3	7.2
14	7.5	7.1	8.0	7.7	8.2	8.0	7.6	7.4	7.7	7.5	7.6	7.3
15	7.3	7.1	8.1	7.7	8.3	8.1	7.7	7.5	7.9	7.6	7.8	7.3
16	7.4	7.1	8.0	7.6	8.3	8.1	7.7	7.5	7.9	7.6	7.6	7.2
17	7.4	7.1	8.0	7.6	8.4	8.1	7.8	7.5	7.8	7.6	7.5	7.3
18	7.6	7.2	7.9	7.6	8.4	8.2	7.8	7.5	7.8	7.6	7.4	7.3
19	7.5	7.3	7.9	7.6	8.5	8.1	7.8	7.4	7.9	7.6	7.5	7.3
20	7.4	7.2	7.9	7.5	8.5	8.1	7.8	7.5	8.0	7.6	7.5	7.3
21	7.4	7.2	7.7	7.5	8.3	8.1	7.8	7.5	8.1	7.7	7.6	7.4
22	7.5	7.2	7.7	7.3	8.3	8.1	7.7	7.5	8.1	7.7	7.5	7.3
23	7.5	7.2	7.6	7.2	8.4	8.1	7.8	7.6	8.0	7.5	7.5	7.4
24	7.5	7.2	7.3	7.2	8.4	8.2	7.8	7.6	7.5	7.4	7.6	7.4
25	7.5	7.2	7.4	7.2	8.6	8.2	7.9	7.7	7.5	7.4	7.6	7.4
26	7.6	7.2	7.3	7.2	8.8	8.2	7.9	7.7	7.5	7.3	7.7	7.4
27	7.6	7.2	7.3	7.2	8.6	7.6	8.0	7.6	7.4	7.2	7.7	7.4
28	7.4	7.2	7.4	7.2	7.9	7.4	7.8	7.7	7.5	7.3	7.7	7.4
29	7.4	7.2	7.4	7.2	7.9	7.7	7.8	7.7	7.7	7.4	7.6	7.3
30	7.4	7.1	7.4	7.3	8.0	7.7	7.7	7.6	---	---	7.8	7.5
31	7.3	7.0	---	---	8.0	7.7	7.7	7.5	---	---	7.7	7.4
MONTH	8.1	7.0	8.1	7.1	---	---	8.0	7.3	8.1	7.2	8.2	7.2

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

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.4	23.7	24.0	21.2	20.3	20.9	18.2	17.2	17.6	17.1	16.0	16.5
2	24.9	23.8	24.2	20.3	18.8	19.7	19.9	17.1	18.2	18.3	16.5	17.6
3	26.6	24.5	25.4	19.1	17.8	18.5	19.9	19.3	19.6	20.0	18.1	19.2
4	28.0	26.1	26.8	18.7	17.6	18.1	21.6	19.9	20.6	19.0	15.2	17.2
5	28.0	26.6	27.1	19.9	18.7	19.2	20.5	18.6	19.3	15.2	14.1	14.7
6	27.1	25.7	26.6	20.8	19.6	20.3	18.6	16.2	16.9	14.5	13.6	14.2
7	26.0	24.5	25.3	21.1	20.3	20.7	16.2	15.1	15.7	15.3	14.4	15.0
8	25.5	24.2	24.8	21.0	20.1	20.6	16.3	15.1	15.6	16.5	15.0	15.9
9	26.5	25.0	25.6	20.7	20.1	20.4	18.4	16.2	17.1	17.0	16.2	16.6
10	26.7	25.7	26.3	21.2	20.1	20.6	18.4	16.5	16.9	17.0	16.2	16.6
11	27.4	26.3	26.7	21.9	20.6	21.3	17.0	16.4	16.8	17.8	16.2	16.9
12	26.9	26.1	26.4	21.9	21.1	21.5	19.7	17.0	18.3	19.4	17.1	18.6
13	26.7	26.0	26.2	21.5	20.6	21.0	19.0	17.6	18.1	21.1	18.9	19.9
14	26.8	26.0	26.2	21.0	20.3	20.6	17.6	15.9	16.8	19.8	17.4	19.0
15	26.8	25.8	26.1	21.0	20.1	20.6	16.0	14.6	15.5	18.3	17.2	17.5
16	26.7	25.7	26.0	21.1	20.1	20.5	15.5	13.9	14.5	18.6	17.2	17.7
17	26.5	25.5	26.0	20.4	19.6	20.0	14.3	13.5	13.9	19.2	18.0	18.5
18	25.5	23.2	24.5	20.4	19.4	19.8	15.2	14.1	14.7	20.4	18.5	19.3
19	23.2	20.5	21.7	21.4	19.7	20.4	15.7	15.0	15.3	20.9	19.1	20.1
20	20.5	19.4	19.8	21.9	20.9	21.2	16.2	15.2	15.6	20.3	19.0	19.9
21	20.4	19.5	19.7	22.0	21.2	21.5	15.6	14.5	15.0	19.1	17.2	17.9
22	20.4	19.5	19.9	23.0	21.2	21.9	14.5	13.8	14.2	17.4	16.6	17.2
23	20.9	20.0	20.3	22.5	21.4	22.2	14.1	13.4	13.8	19.4	17.3	18.3
24	20.6	19.8	20.2	21.5	20.1	20.5	14.0	13.2	13.5	18.6	17.0	17.9
25	20.1	19.4	19.8	20.3	17.4	18.3	14.1	13.2	13.6	17.0	15.7	16.5
26	20.3	19.2	19.8	17.4	16.1	16.7	14.0	13.2	13.6	15.7	14.2	15.0
27	21.2	19.7	20.5	16.9	16.0	16.2	15.3	13.4	14.6	14.6	10.8	13.2
28	21.9	20.4	21.2	18.3	16.1	16.9	15.5	14.0	14.8	11.4	10.3	10.8
29	22.3	21.1	21.6	18.6	17.0	17.9	15.4	13.9	14.4	10.3	9.3	9.6
30	23.2	21.5	22.2	18.5	17.5	18.1	16.3	14.2	15.3	9.6	9.2	9.4
31	22.5	20.9	21.5	---	---	---	17.3	15.8	16.3	11.5	9.6	10.7
MONTH	28.0	19.2	23.6	23.0	16.0	19.9	21.6	13.2	16.0	21.1	9.2	16.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	11.1	12.1	21.8	19.5	20.6	23.9	23.3	23.6	25.9	23.3	24.9
2	13.3	13.1	13.2	22.8	20.9	22.0	23.3	21.1	21.7	25.2	19.6	21.2
3	15.0	13.3	14.0	23.4	21.6	22.4	21.1	18.7	19.6	24.6	20.5	21.3
4	15.5	14.0	14.8	22.2	21.0	21.7	21.2	18.2	19.2	23.8	20.8	21.9
5	15.0	13.9	14.5	21.0	20.1	20.5	20.4	18.9	19.6	24.6	21.5	22.6
6	14.3	13.5	13.9	20.9	19.5	20.2	20.4	19.1	19.7	24.9	24.1	24.3
7	17.7	13.9	15.4	21.6	20.0	20.8	21.5	19.6	20.4	25.0	23.9	24.6
8	18.4	16.7	17.5	23.0	21.1	22.0	22.2	20.9	21.5	25.7	24.6	25.1
9	18.2	16.6	17.0	24.4	22.3	23.3	21.7	20.8	21.2	26.1	25.0	25.6
10	17.9	17.2	17.5	24.6	23.4	24.0	21.5	20.5	20.8	26.8	25.4	26.0
11	20.1	17.5	18.8	24.0	21.5	22.3	22.2	20.6	21.1	27.6	26.6	26.9
12	20.4	18.9	19.7	22.0	19.8	20.8	21.9	18.5	19.8	27.9	26.5	27.0
13	20.9	20.1	20.4	20.8	19.5	19.9	19.6	18.6	18.9	27.7	27.0	27.4
14	21.0	20.2	20.4	19.9	19.0	19.6	20.1	19.1	19.6	27.1	26.4	26.8
15	21.9	20.2	20.8	21.4	18.9	19.6	20.6	19.2	20.0	27.4	25.9	26.4
16	21.9	20.5	21.4	21.9	20.3	20.8	21.3	20.2	20.7	27.7	26.1	26.7
17	22.3	21.5	22.0	21.9	20.8	21.4	24.6	21.3	22.7	27.7	26.1	26.8
18	22.6	21.7	22.2	21.8	20.8	21.4	25.5	23.1	24.4	27.5	26.6	27.0
19	22.0	20.5	21.5	21.3	20.1	20.8	26.1	24.2	25.1	28.8	27.0	27.5
20	20.5	19.2	19.8	20.9	19.9	20.4	26.4	25.1	25.6	27.6	22.5	23.3
21	19.9	18.6	19.2	20.4	19.7	20.0	26.6	25.2	25.6	27.4	23.8	25.0
22	20.2	18.9	19.6	21.1	19.9	20.5	25.9	24.4	25.0	28.3	25.8	26.8
23	19.8	18.6	19.4	22.2	20.9	21.4	25.1	24.2	24.5	28.3	25.4	26.5
24	20.7	19.5	19.9	23.6	21.7	22.7	25.6	24.4	24.8	27.6	26.0	26.9
25	20.9	20.4	20.6	24.0	23.0	23.5	25.7	24.7	25.2	28.3	26.9	27.4
26	21.4	20.6	21.1	25.1	23.7	24.2	26.2	25.0	25.4	29.9	27.9	28.9
27	20.6	19.3	19.8	25.5	24.0	24.6	26.9	25.0	25.8	30.6	28.8	29.4
28	20.3	19.1	19.7	25.0	24.2	24.7	27.0	25.5	26.2	29.5	28.7	29.1
29	20.3	19.1	19.6	25.5	24.0	24.4	27.2	26.1	26.5	30.5	28.7	29.3
30	---	---	---	25.8	24.4	24.8	26.3	25.9	26.0	31.9	29.2	30.0
31	---	---	---	24.9	23.9	24.3	---	---	---	31.6	29.5	30.1
MONTH	22.6	11.1	18.5	25.8	18.9	21.9	27.2	18.2	22.7	31.9	19.6	26.2

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.9	29.2	29.6	31.0	30.0	30.5	29.3	26.8	27.6	31.9	30.5	30.9
2	30.6	29.0	29.6	---	---	---	30.1	26.7	28.6	32.0	30.2	30.9
3	30.0	28.6	29.4	31.5	30.3	30.8	29.7	27.1	28.2	32.8	30.7	31.5
4	29.9	27.5	28.3	31.4	29.9	30.5	30.3	28.8	29.5	32.5	30.6	31.2
5	27.9	25.1	26.2	30.7	29.0	29.8	31.2	29.4	29.8	32.4	30.5	31.0
6	28.1	25.7	26.4	30.8	29.3	29.9	32.3	29.3	30.2	31.2	30.0	30.6
7	27.7	26.3	27.1	31.2	29.2	29.9	31.6	29.8	30.5	30.4	29.4	29.9
8	27.7	27.1	27.4	31.3	29.8	30.4	31.2	30.0	30.3	29.8	28.6	29.1
9	27.7	26.1	27.0	31.9	30.0	30.7	30.9	29.5	30.0	29.0	28.0	28.4
10	27.4	25.9	26.4	31.5	30.2	30.6	31.7	29.8	30.4	29.1	28.3	28.8
11	28.0	26.8	27.2	31.9	30.0	30.6	31.6	29.9	30.6	30.0	28.9	29.2
12	28.9	27.6	28.0	31.9	30.0	30.7	32.6	30.6	31.3	29.9	29.2	29.5
13	28.9	27.1	28.2	32.6	30.0	30.9	32.5	30.8	31.3	30.2	27.4	28.2
14	29.2	28.3	28.6	32.5	30.2	31.1	31.9	30.5	30.8	28.7	27.3	27.7
15	30.5	28.3	29.0	32.5	30.7	31.3	31.5	30.2	30.6	28.6	27.1	27.4
16	30.1	28.7	29.3	32.6	30.7	31.4	32.0	30.1	30.7	28.4	27.5	27.8
17	29.7	28.3	29.0	32.8	31.0	31.5	32.2	30.3	30.9	27.5	26.9	27.1
18	28.6	27.7	28.0	32.8	30.9	31.4	32.3	30.3	30.9	27.2	26.0	26.4
19	29.1	28.2	28.6	32.9	30.8	31.4	32.3	30.1	30.8	27.5	25.6	26.1
20	29.8	28.6	29.1	32.7	30.8	31.4	32.2	29.9	30.6	28.0	25.9	26.9
21	30.9	28.8	30.0	32.8	30.8	31.4	31.4	29.9	30.5	28.1	27.2	27.5
22	30.9	29.4	29.9	32.8	30.6	31.3	30.8	29.9	30.3	29.0	27.0	27.7
23	31.9	29.8	30.3	32.6	28.7	30.7	29.9	28.9	29.5	29.3	28.4	28.7
24	31.7	29.7	30.3	30.0	28.4	29.1	29.6	28.7	29.0	30.5	28.7	29.3
25	31.4	29.6	30.3	31.6	29.6	30.1	30.3	28.8	29.3	29.4	26.1	28.3
26	31.4	28.1	29.6	30.9	29.4	30.0	30.9	28.9	29.6	26.1	24.4	25.4
27	30.5	27.7	28.6	31.5	29.5	30.0	30.9	29.4	30.0	24.9	23.5	24.1
28	29.9	28.9	29.0	31.2	29.5	30.0	31.7	29.9	30.4	24.9	23.4	23.9
29	---	---	---	30.9	29.6	30.1	31.9	29.9	30.5	24.7	23.1	23.8
30	31.1	29.5	30.1	31.3	29.8	30.2	32.6	30.1	30.9	25.2	23.2	24.0
31	---	---	---	31.0	26.7	29.5	32.7	30.3	31.0	---	---	---
MONTH	---	---	---	---	---	---	32.7	26.7	30.1	32.8	23.1	28.0

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	5.0	2.1	3.5	3.8	1.0	2.8	9.0	7.2	7.8
2	---	---	---	5.2	3.3	4.3	5.6	1.2	2.9	8.8	7.2	7.6
3	6.3	4.4	4.8	6.9	4.6	5.8	4.6	2.1	3.4	8.1	6.4	7.0
4	---	---	---	7.5	4.6	5.8	7.7	2.8	4.7	7.2	6.3	6.8
5	5.5	4.4	4.7	6.6	3.8	5.7	7.3	6.0	6.7	9.0	6.8	7.9
6	5.5	3.8	4.7	6.5	4.9	5.7	8.0	7.0	7.4	9.8	7.4	8.5
7	7.7	4.3	6.1	7.0	4.4	5.7	7.5	7.1	7.3	9.1	7.8	8.3
8	6.6	4.8	5.3	7.2	3.3	6.1	8.1	6.8	7.3	9.2	7.7	8.5
9	5.6	5.0	5.3	7.9	5.9	6.6	7.5	6.5	7.1	7.7	6.4	7.1
10	6.5	5.1	5.8	7.9	5.8	6.4	6.8	6.1	6.5	7.6	6.3	7.1
11	6.7	5.0	5.2	7.2	5.5	6.2	7.4	5.4	6.4	7.9	4.9	6.9
12	6.0	5.0	5.3	7.9	5.4	6.3	7.6	5.3	6.5	7.4	3.7	5.8
13	6.2	5.0	5.3	7.0	5.3	5.9	6.8	6.0	6.3	5.6	2.7	4.6
14	5.9	5.0	5.2	8.5	5.4	6.4	7.2	6.3	6.7	5.9	2.8	4.4
15	5.8	5.0	5.1	8.8	5.9	6.7	8.1	6.4	7.2	6.9	3.1	5.3
16	5.9	5.0	5.4	8.8	5.8	6.9	8.6	6.7	7.7	7.2	1.2	6.0
17	5.9	5.0	5.3	8.8	5.6	6.7	9.2	6.9	8.1	7.9	4.8	6.2
18	5.9	5.2	5.2	8.8	5.5	7.0	9.2	7.1	8.0	7.4	4.4	5.9
19	5.8	3.8	4.9	8.7	5.8	6.9	8.8	5.5	7.5	6.6	3.8	5.4
20	5.5	4.1	4.9	8.5	5.4	6.7	8.8	5.3	7.3	6.1	3.5	4.7
21	6.3	4.4	5.5	7.5	4.9	6.3	7.6	4.7	6.6	6.6	3.8	5.1
22	7.0	4.6	5.8	7.3	3.8	5.9	7.5	5.4	7.0	7.3	5.0	6.3
23	6.8	4.2	5.6	6.2	1.2	4.2	9.3	5.8	7.8	8.0	4.9	6.7
24	7.2	4.0	5.8	5.0	3.0	4.4	10.1	6.7	8.7	7.6	4.8	6.4
25	7.0	4.0	5.4	6.7	3.9	5.8	10.7	7.0	9.0	9.5	5.7	7.6
26	6.9	4.2	5.5	6.1	4.3	5.4	10.7	7.4	9.2	9.3	7.4	8.4
27	7.4	3.9	5.6	7.2	3.1	5.2	11.2	8.3	9.3	13.9	5.5	9.5
28	6.7	3.2	4.9	5.8	1.9	4.4	9.6	8.2	8.9	13.4	12.0	12.5
29	5.3	2.8	4.4	4.8	2.0	3.3	10.1	8.4	9.0	13.6	12.2	12.9
30	5.9	2.9	4.5	4.1	1.0	2.8	10.0	8.0	8.6	13.6	11.8	13.0
31	4.3	1.2	3.0	---	---	---	9.8	7.5	8.1	13.2	10.1	11.8
MONTH	---	---	---	8.8	1.0	5.6	11.2	1.0	7.1	13.9	1.2	7.5

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.9	8.4	9.6	6.8	4.0	5.5	6.4	2.4	4.8	---	---	---
2	8.5	6.3	7.7	6.8	4.0	5.4	6.7	3.1	5.4	---	---	---
3	7.9	6.1	7.1	6.1	3.1	5.1	7.1	5.3	6.2	---	---	---
4	8.1	6.5	7.3	6.5	4.4	5.5	6.0	4.9	5.4	---	---	---
5	8.5	6.8	7.6	7.2	3.5	5.5	5.1	4.2	4.7	---	---	---
6	8.9	7.1	7.9	7.6	3.9	5.7	4.9	3.5	4.4	4.8	2.3	3.5
7	9.8	7.1	8.2	7.1	4.0	5.6	4.4	2.0	3.0	4.9	3.6	4.5
8	7.6	6.0	6.5	7.1	2.3	5.3	3.1	1.0	2.1	4.8	4.0	4.5
9	7.4	6.6	6.9	6.6	3.1	5.1	3.1	1.2	2.4	4.7	3.1	4.1
10	7.7	5.4	7.0	6.6	3.0	4.8	3.1	1.0	2.0	3.9	3.1	3.5
11	8.2	5.6	6.7	6.8	2.0	3.9	2.9	.9	2.0	---	---	---
12	7.0	5.0	5.9	1.9	1.0	1.2	4.6	1.3	3.3	---	---	---
13	7.1	4.9	5.7	3.6	.9	2.4	2.9	1.7	1.9	---	---	---
14	6.3	4.8	5.4	7.2	2.3	4.8	3.1	2.1	2.1	---	---	---
15	7.4	5.1	5.8	7.9	3.5	5.6	5.9	1.9	2.4	---	---	---
16	7.1	4.9	5.6	6.1	1.2	3.6	---	---	---	9.3	6.3	8.3
17	6.8	5.1	5.6	4.8	2.5	3.8	5.9	4.4	5.5	8.6	5.3	6.7
18	6.6	4.2	5.2	4.4	1.1	3.3	7.4	4.1	5.8	7.6	4.9	6.0
19	6.9	4.2	5.3	4.8	2.0	3.5	6.8	4.3	5.7	9.0	4.9	6.6
20	8.1	4.7	6.2	5.2	2.3	3.9	6.9	4.7	5.9	6.6	4.9	5.6
21	8.8	5.9	7.2	7.2	2.0	4.5	6.9	5.0	6.2	5.0	3.8	4.5
22	8.7	6.6	7.6	6.0	2.9	5.0	6.9	5.0	6.5	4.9	2.0	3.4
23	8.2	5.9	7.0	6.5	4.9	5.7	6.9	5.0	6.2	5.0	3.4	4.4
24	6.0	4.4	5.3	6.7	5.0	5.8	6.9	5.5	6.7	4.9	4.4	4.6
25	6.0	4.8	5.5	6.4	4.8	5.5	---	---	---	4.4	2.7	3.6
26	5.4	3.1	4.5	6.5	4.0	5.2	---	---	---	4.0	2.3	3.4
27	4.8	2.7	3.8	7.2	3.5	5.0	---	---	---	5.6	2.2	3.8
28	6.2	3.1	4.7	6.6	4.3	5.1	---	---	---	5.2	2.0	3.8
29	6.8	3.9	5.5	6.1	3.1	4.6	---	---	---	5.9	2.0	3.8
30	---	---	---	7.9	4.5	5.9	---	---	---	7.0	3.0	5.0
31	---	---	---	6.9	3.0	5.0	---	---	---	6.2	3.3	4.8
MONTH	10.9	2.7	6.4	7.9	.9	4.7	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	1.3	3.9	5.8	4.0	5.3	4.2	2.0	3.0	4.9	1.1	3.1
2	5.6	2.1	4.2	---	---	---	---	2.0	3.2	4.2	1.5	2.6
3	5.8	2.0	3.9	8.9	5.2	6.2	3.8	2.3	2.5	4.3	2.0	2.6
4	4.3	1.2	2.9	8.7	4.2	7.1	---	---	---	5.2	1.0	2.5
5	5.6	3.3	4.4	9.3	3.0	5.4	4.8	---	---	5.1	1.0	2.2
6	4.8	2.1	3.4	9.7	2.3	5.3	6.1	---	---	5.1	1.0	2.8
7	5.5	4.1	5.1	7.9	1.0	3.7	---	---	---	5.2	1.0	3.1
8	5.9	3.9	5.2	9.0	2.0	4.6	---	---	---	5.7	2.1	3.5
9	5.8	3.2	4.3	8.6	2.1	4.9	---	1.8	2.6	4.5	2.0	3.3
10	5.8	4.0	4.8	7.9	2.4	4.6	---	2.0	2.7	2.7	1.0	1.4
11	5.6	4.1	4.6	---	---	---	---	2.1	3.4	3.6	1.0	2.3
12	5.0	3.5	4.3	6.8	1.0	2.8	6.0	2.6	3.9	2.1	1.4	1.4
13	5.1	4.2	4.8	7.2	2.5	4.5	6.2	1.4	3.6	3.9	1.2	2.9
14	4.9	3.3	4.3	9.6	2.6	4.9	5.1	2.1	3.3	5.1	1.2	3.0
15	5.2	3.4	4.4	8.8	2.7	5.5	---	2.4	3.9	4.4	2.8	3.7
16	4.9	2.5	4.1	8.5	2.2	4.5	8.0	2.0	4.0	5.2	3.1	3.7
17	6.1	2.1	3.9	8.5	2.0	4.3	5.9	1.2	3.7	5.7	3.2	4.7
18	4.2	2.0	2.8	7.5	2.0	5.3	8.4	1.9	3.9	6.4	4.1	5.1
19	4.7	2.5	3.9	8.1	2.6	5.1	6.9	2.0	4.0	6.7	4.1	5.0
20	4.4	3.0	3.7	7.9	1.9	4.1	6.6	1.8	3.3	6.2	4.3	5.1
21	5.1	3.5	4.3	8.2	2.0	4.3	5.8	1.7	3.6	6.1	4.0	4.7
22	5.0	3.2	4.1	8.8	1.6	5.1	5.2	2.0	3.2	5.3	3.3	4.1
23	5.8	3.0	4.6	8.4	2.0	4.6	---	---	---	4.0	2.3	3.0
24	5.9	3.2	4.9	---	---	---	---	---	---	4.0	1.5	3.0
25	6.9	3.2	5.2	---	---	---	3.4	2.5	3.0	4.3	2.5	3.5
26	6.9	2.1	4.7	3.2	2.3	2.7	5.8	2.3	4.0	4.9	3.3	4.2
27	4.2	2.0	2.7	6.5	2.6	5.1	6.9	2.9	4.3	4.9	2.8	3.9
28	---	---	---	7.7	2.2	4.3	6.6	3.5	4.8	4.7	2.6	3.7
29	---	---	---	9.0	3.2	5.2	6.8	3.2	4.7	5.2	2.9	4.0
30	5.9	5.0	5.4	7.6	3.8	5.2	8.3	3.2	5.3	4.8	2.3	3.8
31	---	---	---	7.5	3.2	4.8	6.9	2.7	4.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	6.7	1.0	3.4

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 mi^2.

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 good. Only very large storms or hurricane surge produces elevations above normal tidal fluctuations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 9.2 ft, Sep 11, 1998; minimum, -3.1 ft Mar 6, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.4 ft, May 2; minimum elevation, -2.4 ft, Jan 4.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2.8	1.3	2.1	1.5	-.1	.9	2.0	1.3	1.7	1.5	-.4	.6
2	2.9	1.3	2.3	.7	-.9	-.2	3.2	1.3	2.3	1.8	.3	1.2
3	2.9	1.1	2.2	2.1	-.9	.9	3.1	1.9	2.6	2.0	.1	1.2
4	2.7	1.0	2.0	2.2	1.0	1.6	2.9	1.6	2.3	1.0	-2.4	-1.1
5	2.6	1.0	2.0	1.9	.8	1.4	2.3	-.6	.5	1.6	-.7	.1
6	2.8	1.0	2.2	2.0	.7	1.4	1.4	-.6	.2	2.1	.6	1.4
7	3.1	1.6	2.3	1.7	.3	1.1	2.3	.5	1.4	2.2	.8	1.5
8	3.1	1.9	2.5	1.8	.1	1.1	2.5	1.1	1.9	---	.3	---
9	3.0	1.7	2.3	2.0	.5	1.3	2.5	.1	1.5	1.8	.1	1.0
10	2.5	1.1	1.8	2.1	.6	1.5	1.4	-.6	.4	1.7	-.1	.9
11	2.3	.7	1.6	2.1	.5	1.5	2.4	1.1	1.7	1.3	.1	.8
12	2.5	1.0	1.8	2.0	.2	1.3	2.7	.3	1.7	1.4	.2	.9
13	2.6	1.0	1.9	2.0	.6	1.4	.9	-1.2	-.2	1.5	.2	.9
14	2.4	.8	1.6	2.1	.4	1.3	1.1	.0	.7	2.0	.0	1.1
15	2.4	1.2	1.9	1.7	-.1	.9	.9	-1.1	-.4	2.3	1.2	1.8
16	2.6	1.2	2.0	1.8	.8	1.3	1.4	-.4	.7	1.8	.4	1.2
17	2.4	.1	1.6	2.0	.9	1.5	1.9	.8	1.4	1.6	-.2	.9
18	1.6	.4	1.1	2.1	1.2	1.8	2.3	.5	1.2	1.7	-.4	.8
19	1.4	-.1	.7	2.2	.9	1.6	1.9	.3	1.1	1.7	-.4	.8
20	1.2	-.2	.7	1.8	.5	1.3	2.0	.4	1.4	1.6	-.9	.6
21	1.9	.8	1.4	2.4	.7	1.6	1.9	-.1	1.0	2.1	.2	1.3
22	1.9	.4	1.2	2.9	1.3	2.1	1.9	-.7	.6	2.4	.6	1.7
23	1.6	-.1	.8	2.5	.7	1.7	1.6	-.3	.8	2.2	-.2	.8
24	2.1	.4	1.2	1.8	-.5	.7	1.5	-.9	.3	1.1	-.8	.0
25	2.0	.2	1.2	1.7	-.9	.4	1.1	-.6	.4	1.2	.0	.7
26	1.9	.2	1.2	1.5	.0	.9	1.3	-.8	.4	1.8	.1	.9
27	1.9	.2	1.1	1.9	.2	1.1	.8	-1.0	-.1	---	---	---
28	2.0	.3	1.3	1.9	.1	1.2	.4	-1.0	-.3	---	---	---
29	2.4	.9	1.8	1.7	.0	.9	.8	-.3	.3	---	-1.2	---
30	2.7	.2	1.8	1.6	.8	1.2	1.2	.0	.7	---	-.5	---
31	2.0	.1	1.1	---	---	---	1.0	-.4	.5	2.0	.2	1.2
MONTH	3.1	-.2	1.6	2.9	-.9	1.2	3.2	-1.2	.9	---	---	---

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	.4	---	1.9	.3	1.2	2.8	1.5	2.3	3.3	1.6	2.3
2	---	-.1	---	2.0	.3	1.2	2.6	1.0	1.8	3.4	1.4	2.2
3	1.4	-.5	.6	2.0	.0	1.0	2.1	.5	1.3	2.5	.9	1.9
4	1.0	-1.0	.1	1.1	-.8	.0	1.0	-.9	-.3	2.9	1.1	2.1
5	1.1	-.6	.0	1.8	.2	1.0	1.9	.1	1.2	3.2	1.1	2.3
6	1.2	-.2	.7	1.9	.9	1.5	2.2	.7	1.5	3.0	1.0	2.2
7	1.2	-.2	.7	2.3	1.2	1.7	2.1	.4	1.4	2.9	.9	2.1
8	---	---	---	2.2	1.2	1.6	1.6	-.4	.3	2.9	.9	2.0
9	1.1	.0	.5	1.8	.8	1.3	2.6	-.2	1.3	2.8	1.0	2.0
10	1.4	.4	1.0	2.0	.6	1.5	3.0	1.1	2.2	2.5	.6	1.6
11	1.4	.3	.8	1.9	-.7	.0	2.6	.7	1.8	2.6	1.1	2.0
12	1.4	-.1	.8	1.7	-.9	.5	2.0	.2	1.2	2.7	1.6	2.1
13	1.8	.1	1.1	2.1	.4	1.3	1.6	-.1	.9	2.1	.9	1.6
14	1.9	.1	1.1	2.7	.5	1.6	2.1	.0	1.1	2.1	1.0	1.5
15	1.9	-.2	.9	3.3	1.3	2.3	2.4	1.0	1.7	2.1	1.0	1.7
16	1.9	.1	1.2	2.0	.4	1.4	2.4	1.2	1.8	2.3	1.0	1.8
17	2.2	.4	1.3	1.8	.2	1.1	1.7	.7	1.2	2.8	1.1	2.1
18	2.2	.3	1.5	2.0	.5	1.4	1.9	.5	1.3	3.2	1.4	2.3
19	1.5	-.8	.4	2.0	-.8	.5	2.3	.4	1.6	2.7	1.3	2.1
20	1.5	-.1	.9	2.4	.0	1.2	2.3	.8	1.4	2.7	1.5	2.2
21	1.9	.5	1.2	3.0	1.9	2.4	1.2	-.3	.6	2.0	.4	1.4
22	2.1	1.1	1.6	2.9	1.5	2.1	2.6	-.1	1.3	1.9	.3	1.3
23	2.4	1.1	1.7	2.7	1.2	1.9	3.1	1.2	2.4	2.1	.4	1.4
24	2.4	.6	1.3	2.2	.7	1.5	2.6	.8	1.4	2.1	.8	1.5
25	2.6	1.2	2.1	2.1	.4	1.4	2.0	.0	1.1	2.5	.8	1.6
26	2.4	.9	1.5	2.0	.3	1.3	2.1	.4	1.3	2.8	1.7	2.1
27	1.3	-.2	.7	2.0	.4	1.3	2.2	.3	1.2	2.4	1.8	2.1
28	2.3	.4	1.3	2.6	.5	1.6	1.5	.3	1.0	2.0	1.0	1.6
29	2.3	.9	1.7	2.6	.9	1.9	2.0	.4	1.1	1.5	.9	1.2
30	---	---	---	1.9	.2	1.1	3.3	1.7	2.4	1.5	.8	1.2
31	---	---	---	2.6	.8	1.6	---	---	---	1.9	.8	1.5
MONTH	---	---	---	3.3	-.9	1.3	3.3	-.9	1.4	3.4	.3	1.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2.3	1.2	1.9	2.1	1.3	1.8	1.9	-.1	1.0	1.5	.2	.8
2	2.2	1.1	1.8	2.2	1.3	1.9	1.7	.4	1.3	1.5	.2	.6
3	2.0	1.0	1.7	2.4	1.6	2.1	1.7	.4	1.3	1.2	-.4	.3
4	2.1	.9	1.6	2.5	1.7	2.1	1.6	.6	1.2	1.1	-.1	.5
5	1.8	.9	1.4	2.3	1.8	2.1	1.3	.8	1.1	1.6	.1	1.1
6	1.6	.5	1.2	2.1	1.7	2.0	1.4	.9	1.2	2.0	.5	1.5
7	2.3	1.1	1.7	2.0	1.5	1.7	1.4	.9	1.3	2.6	.9	2.0
8	3.1	1.9	2.4	1.7	1.4	1.6	2.1	1.1	1.7	2.4	1.0	1.8
9	3.1	1.9	2.3	1.9	1.5	1.7	1.9	1.5	1.7	2.8	1.0	2.2
10	3.1	2.2	2.5	2.0	1.6	1.8	1.7	1.3	1.5	2.7	1.3	2.1
11	2.9	2.2	2.5	1.9	1.5	1.7	1.8	1.1	1.4	2.3	.9	1.8
12	2.4	1.9	2.2	1.7	1.4	1.6	1.7	1.4	1.6	2.6	.9	2.0
13	2.1	1.6	1.9	1.5	1.2	1.4	1.9	1.3	1.6	2.6	1.3	2.0
14	2.7	1.6	2.1	1.3	1.0	1.2	2.6	1.6	2.1	2.4	1.0	1.7
15	2.3	1.5	2.0	1.3	.8	1.1	2.3	2.1	2.2	2.3	.7	1.3
16	2.8	1.6	2.2	1.8	.9	1.3	2.2	1.5	1.7	2.5	1.2	1.7
17	3.3	1.9	2.6	1.8	1.2	1.5	1.6	1.2	1.3	2.5	1.0	1.9
18	3.0	1.8	2.2	1.8	1.2	1.6	1.6	1.3	1.4	2.5	1.2	1.9
19	2.7	1.7	2.2	1.7	1.3	1.4	1.4	.8	1.2	2.7	1.3	2.1
20	2.8	1.7	2.2	1.5	1.0	1.3	1.5	.5	1.0	2.7	.9	2.0
21	2.4	1.6	2.1	---	1.1	---	1.4	.5	1.0	2.7	1.0	2.0
22	2.2	1.3	1.8	---	---	---	1.6	.4	1.1	2.9	1.0	2.2
23	1.9	1.2	1.6	---	---	---	2.3	.5	1.4	2.7	1.1	2.1
24	2.1	1.3	1.7	---	---	---	2.1	.1	1.4	2.7	.6	1.9
25	2.3	1.4	1.8	---	---	---	2.0	.1	1.4	.7	-.5	.1
26	2.2	1.6	1.8	1.8	---	---	1.9	.0	1.3	1.7	-.9	.6
27	1.7	1.5	1.6	1.8	1.4	1.7	2.1	.1	1.5	1.8	.4	1.2
28	1.9	1.2	1.6	2.1	1.6	1.9	2.0	.4	1.4	1.9	.7	1.2
29	1.8	1.3	1.6	2.1	1.5	1.8	1.8	.2	1.2	2.4	.8	1.5
30	2.0	1.0	1.7	1.8	1.4	1.7	1.3	.1	.8	2.4	.8	1.6
31	---	---	---	2.4	.8	1.5	1.5	-.1	.7	---	---	---
MONTH	3.3	.5	1.9	---	---	---	2.6	-.1	1.4	2.9	-.9	1.5

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Apr 1986 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Apr 1986 to current year.
pH: Oct 1998 to current year.
WATER TEMPERATURE: Apr 1986 to current year.
DISSOLVED OXYGEN: Apr 1986 to current year.

INSTRUMENTATION.--Water-quality monitor since Apr 1986.

REMARKS.-- Water-quality monitor data have been collected one ft below the water surface since Feb 3, 1998. From Apr 1986 to Jan 1987 data were collected at a fixed elevation of 6.5 ft below sea level using a submersible pump. From Feb 1987 to Jan 1988 data were collected at a fixed elevation of 5.5 ft below sea level using a submersible pump. Dissolved oxygen data are not corrected for salinity. Prior to Sep 1995, the upper limit of the specific conductance instrument was 20,000 microsiemens. Due to tidal effects, location of probe units, and channel morphology, the water-quality data collected at this location may not be representative of the entire flow through the cross-section.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, >20,000 microsiemens, on Oct 12, 13, 14, Dec 13, 1988, Jan 23, 1989; minimum, 60 microsiemens Jun 26, 1989.
pH: Maximum, 8.3 units, May 8, 1999; minimum, 6.5 units, Nov 4-5, 1999, Apr 5-6, 13-14, 2000.
WATER TEMPERATURE: Maximum 36.5°C Aug 21, 1990; minimum, 7.0°C, on Jan 13-14, 1997.
DISSOLVED OXYGEN: Maximum, 20.0 mg/L, Jun 6, 1996; minimum, 0.0 mg/L, on several days during 1987-88 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 19,800 microsiemens, Sep 29; minimum, 219 microsiemens, May 20.
pH: Maximum, 8.2 units, Jul 3; minimum, 6.5 units, Apr 14.
WATER TEMPERATURE: Maximum, 33.8°C, Jul 20; minimum, 11.4°C, Jan 28, 30.
DISSOLVED OXYGEN: Maximum, 14.3 mg/L, Jul 4; minimum, 0.8 mg/L, Oct 1, 2.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8770	2310	5540	10900	4710	7520	17700	11200	14300	12800	9750	11500
2	8450	4190	5770	14900	6640	10200	14400	6840	10000	11600	8030	9190
3	6750	4630	5590	15400	10300	12400	6900	4460	5440	13200	6000	8510
4	13800	4920	8250	12400	8450	10500	6200	1510	4970	14900	8800	11400
5	11500	6400	8380	12100	7020	8920	2180	1000	1310	15100	9620	11700
6	11900	8010	9490	13100	7100	9050	3190	1450	1910	17700	8450	12000
7	10900	7120	8750	11400	6150	8050	5860	1990	3330	16800	9700	12200
8	12600	7540	8670	13200	6240	8300	8300	2800	5350	12200	5970	9000
9	9960	7250	8780	14700	8290	11300	9400	4160	6410	6490	3730	4620
10	11800	5940	7840	15300	9040	11500	8040	3680	5780	9450	4140	5260
11	12400	6090	8050	13600	8890	11000	8210	4300	6840	10800	5780	7650
12	16200	7300	11300	14800	7530	10100	7030	5040	6220	12500	5810	7690
13	14200	8760	11600	14500	8150	10700	5980	2890	4090	10300	6360	8510
14	12200	7900	9990	13200	7530	9790	8270	4170	6300	14800	8490	10900
15	12000	8420	10100	11900	7550	8920	12200	5540	7740	10700	6540	9310
16	11800	7530	9290	13000	8870	10700	12500	6510	8530	9940	7210	8320
17	14300	6810	8630	12100	8670	10200	11000	7230	9320	9430	6150	7610
18	14600	9330	11700	11200	9080	10300	14800	7880	10200	10300	7000	8500
19	13600	9660	11500	11400	8470	9740	13200	6920	8860	11100	6900	8610
20	12300	7620	10100	10700	7240	9030	13900	7810	9840	12700	6770	9870
21	15300	6540	9210	11400	7720	9510	11800	6270	9050	15800	8570	12300
22	14600	7940	10700	13300	6360	10200	13600	6440	9620	13900	7440	10800
23	13800	7890	10500	7410	1020	3940	14600	7550	10900	13800	9090	10900
24	14200	7870	10800	8640	1600	2180	10700	6670	8220	13600	7400	9840
25	17000	8120	12000	8640	2200	3500	9960	6930	8460	15300	7360	10300
26	15300	9060	11100	8670	2140	4070	10700	6770	8260	13000	7910	10600
27	12800	7670	10300	7830	3080	4640	12800	6590	9050	---	---	---
28	11300	7700	9340	7120	3000	4110	17600	6990	13100	---	---	---
29	11300	7470	9090	9320	4850	7000	18600	9530	13400	4800	1870	3350
30	11100	7180	9420	11700	6380	9360	18400	11400	15300	---	2720	---
31	8800	4740	7420	---	---	---	18700	10700	14600	---	4680	---
MONTH	17000	2310	9330	15400	1020	8560	18700	1000	8280	---	---	---

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	3960	---	8330	3750	5310	10300	7720	8740	7730	4490	6080
2	---	4360	---	8330	5900	7120	10100	459	3400	7060	328	2230
3	9620	5580	7250	11500	5440	7910	1340	340	650	762	271	423
4	---	---	---	11500	7640	8840	880	372	480	775	284	426
5	---	9450	---	11400	6880	8330	1300	449	774	669	317	408
6	---	8010	---	9120	6540	7740	1060	432	676	453	382	410
7	12000	5600	8470	9110	6180	7900	1010	426	685	834	405	509
8	---	2640	---	9780	6170	7720	2620	813	1880	1280	340	539
9	10600	2430	3970	9530	5840	7390	4880	1610	3220	566	348	439
10	11400	4860	6520	9800	5460	7500	5210	2760	3800	572	377	459
11	9410	4870	6450	9890	4160	6630	6730	3730	4900	1230	512	725
12	15900	6190	10200	9220	4490	6420	6570	371	2300	1830	764	1170
13	15700	9020	11900	10100	5900	7100	946	334	473	2830	792	1260
14	13400	6390	9450	10100	4240	7420	1200	459	816	1670	1120	1380
15	12000	8000	9530	4430	888	2270	961	413	716	2250	1120	1510
16	10200	5030	7960	2550	658	1050	1290	495	847	2440	1700	2040
17	11200	7760	9070	5430	1770	3560	2970	1020	1780	2700	1660	2150
18	13700	6160	9750	7120	3050	4420	4330	2190	3390	2940	1870	2440
19	17200	8700	11900	10500	4900	6310	6120	3120	4900	3400	1980	2530
20	14200	9020	10800	9170	4900	7280	5560	3050	4260	3330	219	818
21	12000	8680	9780	8700	6490	7460	6440	3220	4360	336	226	254
22	12700	8380	10500	8620	5110	6810	7570	3090	5040	580	318	404
23	11300	1860	6380	6590	4640	5730	7140	4970	6080	625	386	499
24	3230	2080	2650	7710	4820	6180	7600	3700	5200	601	295	468
25	4070	2140	3070	10300	4940	6690	8990	5040	6770	359	292	336
26	5650	2740	3670	10600	7150	9280	8610	6600	7500	583	359	489
27	8120	2000	3740	10100	5360	7140	9020	5990	7250	656	555	632
28	8320	4570	6240	8500	6740	7520	9060	4820	6560	857	583	673
29	7620	4780	6120	8480	5980	7160	8180	5270	6490	1260	656	918
30	---	---	---	9670	6060	7490	9800	6700	8450	820	652	756
31	---	---	---	11700	7880	9690	---	---	---	964	783	896
MONTH	---	---	---	11700	658	6750	10300	334	3750	7730	219	1110

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1030	910	981	3440	2080	2810	3920	1650	2560	13900	9350	11300
2	1540	936	1250	3520	1970	2820	7980	2250	4280	15300	9720	12100
3	1500	1000	1260	3520	2130	2830	6240	2460	3680	14100	10000	11600
4	2290	1120	1330	3640	2180	2930	10000	3810	6170	14300	9860	12100
5	4410	560	1400	4960	2300	2950	7620	4040	5490	15100	9790	11200
6	5640	516	1520	2980	2010	2510	7720	3530	4590	14100	9530	11600
7	3250	407	1210	6220	1950	2920	11900	3980	5810	15300	9470	12300
8	4770	537	1600	7090	3290	5960	14700	5030	10300	14200	10100	11800
9	2700	1140	1850	7140	3110	4620	7260	4960	6000	12400	8380	10600
10	2420	609	909	5130	2730	3630	12300	5190	7390	14400	7150	10300
11	1550	804	1090	5350	3300	4550	10900	6640	8120	11900	8100	9140
12	2430	776	1270	6570	3840	5360	11200	5900	7690	13000	8880	10500
13	2020	1060	1510	9920	4910	7640	12000	5720	7630	11400	2800	7300
14	2340	828	1440	9850	5200	7190	8970	5030	6270	6170	1460	3210
15	2380	1260	2020	11200	4400	7380	8770	6280	7490	9330	2060	4960
16	3900	2080	2640	7450	5120	6280	14100	6540	9160	14500	7730	11400
17	4310	1620	3170	9140	4910	6340	12700	8470	10500	10700	4380	7410
18	2020	897	1530	7640	4890	5850	11700	7500	9040	13000	6030	8750
19	1850	946	1190	7380	4340	6410	11900	7780	9200	10800	7300	9190
20	2320	1210	1520	8760	5520	6680	13700	9220	10900	12700	7510	10500
21	2610	1470	1990	---	---	---	11000	8490	9600	15500	7700	10100
22	4860	1710	2420	---	---	---	15400	7520	11900	12300	3970	7490
23	5090	1920	3360	---	---	---	14100	7160	9870	7750	3470	5700
24	3300	1940	2430	---	---	---	12100	7660	9750	9300	4800	7690
25	4060	2900	3330	---	---	---	10800	6390	8920	10000	6700	8270
26	4730	880	2440	---	---	---	11000	6320	8730	12300	9200	10600
27	1230	495	692	9420	4550	6220	11200	7670	9720	16100	10000	12100
28	2430	944	1290	8070	3840	6180	17100	8320	14000	19600	10600	13800
29	4710	1470	2940	12900	6260	9240	18600	10800	15100	19800	11600	14500
30	3890	1560	2760	10500	5200	7840	14700	10400	11800	14500	10100	12300
31	---	---	---	10300	3910	7640	14200	9400	11100	---	---	---
MONTH	5640	407	1810	---	---	---	18600	1650	8480	19800	1460	9990

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

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

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

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	27.7	24.8	26.3	23.1	21.9	22.6	22.2	17.6	20.2	17.8	16.4	17.0
2	27.9	25.4	26.8	23.0	21.6	22.2	20.0	18.8	19.3	19.7	17.8	19.2
3	29.4	26.3	27.7	23.0	19.9	21.7	21.5	18.9	20.2	20.4	17.3	19.1
4	28.6	26.8	27.8	23.1	21.4	22.3	22.6	21.3	21.8	17.6	15.4	16.3
5	28.8	26.3	27.8	23.4	21.8	22.5	21.9	19.8	20.8	17.9	14.9	16.2
6	28.6	26.0	27.5	23.5	21.5	22.5	20.9	19.0	19.6	17.6	14.9	16.3
7	28.7	26.0	27.4	23.0	21.2	21.8	21.5	18.8	19.8	17.1	15.5	16.3
8	28.5	27.2	27.9	24.0	21.2	22.6	22.1	18.8	20.6	17.3	15.3	---
9	29.2	27.7	28.2	24.2	22.4	23.3	21.7	19.0	20.5	17.3	15.8	---
10	28.9	27.4	28.0	24.4	22.5	23.7	20.2	18.2	19.1	17.8	16.2	---
11	29.5	27.3	28.2	24.5	22.9	23.7	21.6	19.0	20.3	18.5	16.5	17.5
12	28.6	27.1	27.7	24.4	22.9	23.8	22.0	19.1	20.4	19.5	17.3	18.7
13	28.3	27.1	27.6	24.1	22.6	23.5	20.1	18.8	19.5	19.9	18.3	19.1
14	28.2	26.1	27.4	24.2	22.4	23.5	20.9	18.2	19.8	18.5	16.4	17.4
15	28.1	26.5	27.3	24.3	22.8	23.7	20.0	17.4	18.6	18.8	16.8	17.9
16	28.8	21.0	27.1	24.9	22.4	23.5	20.5	17.1	18.8	19.5	18.1	18.6
17	27.7	25.2	27.0	24.2	22.3	23.3	20.1	17.6	18.7	20.0	18.1	19.0
18	26.6	25.0	25.8	24.2	22.1	23.3	20.3	17.9	19.1	19.8	18.2	19.1
19	25.6	23.8	24.8	24.3	23.3	23.7	19.4	17.3	18.0	20.3	18.7	19.4
20	25.3	22.8	24.0	24.2	22.9	23.5	20.1	17.0	18.7	20.2	17.5	18.8
21	24.9	22.6	23.6	24.4	22.9	23.6	19.8	16.0	17.4	18.2	16.5	17.5
22	25.4	22.6	24.1	24.4	23.3	23.7	19.0	16.0	17.2	19.2	16.7	18.3
23	24.8	22.3	23.6	23.7	22.7	23.2	18.9	16.4	17.7	19.3	17.8	18.4
24	25.0	21.5	23.2	22.9	21.8	22.3	19.0	16.8	17.4	18.7	16.7	17.8
25	24.8	22.1	23.5	23.3	20.0	21.2	19.2	15.9	17.5	18.8	16.4	17.6
26	24.5	22.5	23.6	21.5	19.0	20.3	19.3	16.0	17.1	17.7	15.2	16.4
27	24.4	22.9	23.8	22.1	19.0	20.5	19.3	16.3	17.7	---	---	---
28	25.0	22.5	24.0	21.8	19.8	20.7	18.1	16.0	17.2	---	11.4	---
29	25.5	22.4	24.0	22.9	20.4	21.6	17.9	15.6	16.8	13.3	11.5	---
30	25.2	22.7	24.0	22.7	20.2	21.5	17.7	16.0	16.7	---	11.4	---
31	23.3	22.1	22.8	---	---	---	18.1	15.2	16.6	15.7	12.1	---
MONTH	29.5	21.0	25.9	24.9	19.0	22.6	22.6	15.2	18.8	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	12.4	---	23.5	21.3	22.3	24.9	23.8	24.2	27.0	25.1	26.1
2	15.7	12.8	---	23.2	21.9	22.5	24.9	21.6	22.8	26.2	20.2	22.2
3	---	---	---	23.3	21.6	22.5	21.7	19.5	20.5	24.2	20.7	21.8
4	---	---	---	22.5	20.2	21.4	21.7	19.5	20.4	24.5	22.5	23.3
5	16.4	13.9	---	22.2	21.0	21.7	21.8	19.6	20.6	24.6	22.2	23.2
6	---	---	---	23.5	20.9	22.4	21.7	20.1	20.8	25.0	23.1	24.0
7	18.1	16.3	---	23.8	22.2	22.9	23.3	20.8	21.7	26.4	24.6	25.3
8	18.6	---	---	24.5	22.5	23.3	23.5	20.9	22.1	27.0	24.6	25.7
9	19.3	17.0	18.2	25.2	22.8	23.8	22.9	21.0	21.9	27.2	25.4	26.0
10	20.1	16.9	18.6	24.6	23.2	23.9	23.6	22.0	22.9	27.7	25.9	26.5
11	20.9	18.0	19.3	24.2	22.2	22.8	24.2	22.8	23.3	27.6	26.4	26.7
12	20.8	16.6	18.7	23.7	20.7	22.1	23.7	19.6	21.3	28.0	26.6	27.1
13	20.4	17.2	18.8	22.6	21.1	22.1	20.5	19.2	19.6	28.0	25.9	27.4
14	21.6	18.4	19.6	22.6	21.4	21.9	21.5	19.5	20.6	29.2	26.0	27.1
15	21.9	19.4	20.4	22.0	20.2	21.0	22.4	20.5	21.2	29.3	26.2	27.4
16	22.9	20.4	21.4	23.2	20.6	21.8	23.4	21.3	22.1	28.5	26.4	27.4
17	22.1	20.4	21.3	23.4	21.6	22.2	26.2	22.5	23.9	28.5	26.7	27.7
18	22.4	19.6	21.1	22.9	21.5	22.3	26.5	22.6	24.4	28.3	27.1	27.8
19	21.0	18.2	19.6	23.3	20.7	22.0	26.3	23.4	24.5	28.9	27.2	27.9
20	21.1	18.2	19.7	23.7	20.5	22.0	25.6	24.0	24.8	27.7	23.3	24.4
21	21.8	19.5	20.6	23.4	21.4	22.3	26.2	23.2	24.5	28.4	23.6	25.2
22	22.1	19.5	20.6	23.8	22.3	22.8	25.5	23.1	24.2	28.6	24.8	26.3
23	21.2	19.9	20.5	24.0	22.1	23.0	25.7	24.2	24.9	28.2	25.9	26.8
24	21.9	19.7	20.8	24.6	22.5	23.6	26.4	24.5	25.3	27.6	26.3	27.0
25	22.2	20.8	21.4	25.4	22.9	24.0	26.8	24.1	25.0	30.2	27.5	28.4
26	22.2	20.8	21.3	24.8	23.1	23.8	27.9	24.6	25.8	29.6	27.9	28.6
27	22.5	19.9	21.0	26.7	23.3	24.7	27.5	25.1	25.9	30.8	28.5	29.3
28	21.9	20.2	21.0	25.0	23.4	24.3	28.3	25.5	26.3	30.4	28.4	29.2
29	22.8	20.7	21.7	26.9	24.2	25.2	27.1	25.7	26.3	29.8	28.2	28.8
30	---	---	---	26.4	23.8	24.9	26.0	25.3	25.7	32.2	28.9	30.3
31	---	---	---	24.7	21.7	23.9	---	---	---	31.4	29.4	30.3
MONTH	---	---	---	26.9	20.2	22.9	28.3	19.2	23.2	32.2	20.2	26.6

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	31.7	29.3	30.2	31.3	29.8	30.6	31.1	28.5	29.7	33.0	30.7	31.6
2	31.4	29.2	30.1	31.6	29.8	30.7	31.1	28.4	29.5	33.0	30.8	31.6
3	31.1	29.3	30.1	32.0	29.8	30.8	31.3	28.8	29.9	33.0	30.8	31.7
4	30.4	29.2	29.7	32.1	30.2	31.1	30.5	28.5	29.6	32.8	30.9	31.6
5	29.3	26.8	28.0	32.5	30.1	31.1	31.5	29.2	30.2	32.7	31.0	31.7
6	29.3	26.0	27.2	32.8	30.3	31.2	32.1	29.7	30.8	32.3	29.9	31.1
7	29.5	26.4	27.7	33.0	30.3	31.3	31.9	30.0	30.9	32.2	30.0	31.2
8	28.3	27.3	27.7	32.6	30.2	31.0	31.7	30.2	30.8	31.3	29.7	30.6
9	28.5	27.7	28.1	33.0	30.3	31.4	32.5	29.9	30.9	31.7	29.9	30.8
10	28.5	27.4	27.8	32.3	30.3	31.2	32.7	30.1	31.1	32.2	30.0	30.7
11	29.0	27.1	28.0	32.3	30.3	31.3	32.8	30.0	31.2	31.5	29.8	30.7
12	29.8	27.6	28.6	33.0	30.3	31.4	33.0	30.2	31.3	32.2	30.0	31.0
13	29.2	27.8	28.6	32.4	30.4	31.3	32.6	30.5	31.3	31.1	29.3	29.9
14	30.1	28.1	28.9	33.1	30.3	31.5	31.9	30.5	31.2	29.7	28.0	28.8
15	30.6	28.4	29.3	33.6	30.6	31.7	32.3	30.4	31.3	30.6	28.1	29.2
16	30.8	28.8	29.5	33.5	30.5	31.8	33.1	30.5	31.5	30.1	28.2	29.3
17	30.1	28.9	29.3	33.6	30.8	31.8	33.3	30.6	31.5	29.5	27.5	28.6
18	30.6	28.8	29.4	33.3	31.0	31.9	33.3	30.5	31.6	29.9	27.9	28.8
19	30.4	28.8	29.6	33.3	31.1	31.9	33.6	30.6	31.7	30.3	28.1	29.3
20	30.4	28.7	29.6	33.8	30.9	32.0	33.2	30.5	31.6	30.7	28.6	29.7
21	30.9	28.9	29.8	---	---	---	32.8	30.7	31.5	29.9	28.7	29.3
22	31.2	29.2	30.0	---	---	---	31.5	30.7	31.2	29.8	28.5	29.1
23	31.3	29.5	30.2	---	---	---	31.6	30.4	31.0	30.5	28.5	29.3
24	32.1	29.5	30.4	---	---	---	32.0	30.3	31.0	31.0	28.7	29.9
25	31.5	29.6	30.5	---	---	---	32.4	30.0	31.1	29.6	27.5	28.4
26	32.5	29.4	30.3	32.4	---	---	33.2	30.0	31.3	29.2	25.6	27.4
27	31.5	28.3	29.5	32.5	29.8	31.1	32.8	30.1	31.3	29.1	25.9	27.6
28	30.9	28.8	29.6	32.5	30.0	31.2	32.5	30.4	31.4	28.8	26.2	27.7
29	31.5	29.3	30.2	32.7	30.6	31.3	32.4	30.4	31.3	29.1	26.5	27.8
30	31.5	29.6	30.4	31.9	29.9	30.9	32.6	30.5	31.5	28.4	26.6	27.5
31	---	---	---	31.1	29.9	30.5	32.9	30.5	31.6	---	---	---
MONTH	32.5	26.0	29.3	---	---	---	33.6	28.4	31.0	33.0	25.6	29.7

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3.1	.8	1.6	4.8	1.7	3.1	5.2	3.1	4.0	7.4	5.6	6.6
2	3.2	.8	1.8	5.2	2.0	3.7	6.2	3.4	4.8	8.1	6.2	7.0
3	3.9	.9	2.2	4.9	2.7	3.8	5.8	3.4	4.6	7.4	5.4	6.5
4	3.4	.9	2.2	6.1	3.4	4.8	5.1	2.0	4.0	7.2	5.1	6.6
5	4.7	1.0	2.6	6.2	3.2	4.8	5.0	2.8	4.0	8.4	5.9	7.2
6	4.7	1.2	2.8	6.7	2.9	5.2	5.0	3.0	4.1	8.3	6.3	7.4
7	4.0	1.6	2.8	7.1	4.4	5.8	5.5	3.3	4.6	8.1	5.4	6.9
8	3.9	1.7	2.4	8.2	4.2	5.9	5.3	3.6	4.5	7.7	4.9	6.7
9	3.9	1.1	2.0	8.3	4.4	5.8	5.2	3.3	4.3	6.9	4.3	6.0
10	3.1	1.1	1.7	6.8	4.3	5.4	5.0	3.5	4.3	6.3	4.2	5.4
11	4.8	1.2	2.3	6.8	4.3	5.5	5.2	3.8	4.6	6.9	4.3	5.8
12	---	---	---	7.7	4.4	5.9	5.0	3.7	4.3	6.8	4.9	6.1
13	5.1	1.3	2.8	7.3	4.4	5.9	5.4	3.8	4.7	7.0	4.8	6.0
14	4.9	1.7	3.5	6.9	4.4	5.8	5.3	3.2	4.6	7.3	4.7	6.4
15	9.4	2.4	4.1	6.8	5.1	5.9	5.2	3.7	4.5	8.5	5.7	7.0
16	8.0	2.8	4.7	7.5	4.5	5.6	5.5	4.0	4.6	9.4	5.8	7.5
17	5.9	2.4	4.2	7.6	4.7	5.9	5.6	4.0	4.9	9.0	5.4	7.1
18	---	---	---	6.8	4.9	5.9	5.9	3.9	5.0	8.5	5.2	6.6
19	---	---	---	7.1	5.2	5.9	5.9	4.2	5.3	6.9	5.0	6.1
20	---	---	---	7.2	5.0	5.8	6.2	4.6	5.3	6.9	4.6	5.8
21	4.8	2.1	3.3	7.6	5.2	6.0	6.1	4.6	5.5	6.8	5.4	6.2
22	4.7	1.5	3.1	6.7	4.9	5.8	6.2	4.6	5.3	7.2	4.8	6.1
23	5.5	2.6	3.9	5.6	1.2	3.3	5.6	4.3	5.0	6.4	4.5	5.5
24	5.2	2.9	4.1	4.8	1.2	3.1	5.8	4.2	5.2	6.7	4.6	5.7
25	5.4	2.9	4.1	5.9	3.0	4.4	6.1	4.1	5.4	6.4	4.9	5.7
26	5.7	3.0	4.2	5.9	3.5	5.1	6.5	4.4	5.6	6.8	4.8	6.0
27	6.1	2.8	4.5	5.9	3.8	5.1	6.2	4.6	5.4	---	---	---
28	6.6	3.9	5.1	6.1	4.8	5.2	6.4	4.4	5.4	10.6	---	---
29	7.2	3.5	5.3	5.8	4.2	4.9	6.7	4.5	5.7	10.0	7.4	8.7
30	10.3	4.2	5.9	5.7	4.3	4.8	6.7	4.4	5.8	9.4	6.4	8.4
31	6.7	2.6	4.4	---	---	---	7.2	5.6	6.4	9.4	6.1	7.5
MONTH	---	---	---	8.3	1.2	5.1	7.2	2.0	4.9	---	---	---

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.6	5.4	7.3	---	---	---	6.9	4.3	5.4	9.3	4.1	6.5
2	8.5	5.2	7.4	---	---	---	5.8	2.9	4.8	6.3	3.4	5.1
3	---	---	---	---	---	---	7.3	5.0	6.1	5.3	3.3	4.3
4	---	---	---	---	---	---	7.0	5.3	6.1	5.7	1.4	3.9
5	7.4	5.2	6.4	---	---	---	6.0	4.7	5.5	5.0	1.4	3.7
6	7.0	5.1	6.1	---	---	---	6.2	5.2	5.7	4.6	1.7	3.3
7	7.1	5.0	6.2	---	---	---	6.3	5.1	5.7	4.4	1.7	3.5
8	6.6	3.7	5.5	---	---	---	5.9	4.8	5.3	5.8	2.3	4.7
9	6.8	3.7	5.5	---	---	---	5.3	4.4	4.9	6.0	4.7	5.3
10	6.7	3.3	5.6	---	---	---	5.6	4.6	5.1	5.6	4.6	5.0
11	6.9	4.0	5.7	---	---	---	5.6	3.6	4.5	5.4	3.9	4.7
12	6.6	4.5	5.5	---	---	---	7.1	3.9	5.5	4.7	2.6	3.9
13	6.5	4.4	5.6	---	---	---	6.8	5.6	6.2	5.3	1.4	3.4
14	6.3	3.7	5.2	---	---	---	6.0	4.7	5.4	5.3	2.4	3.6
15	6.9	4.5	5.6	---	---	---	6.6	5.2	5.7	7.1	2.8	4.4
16	7.0	3.9	5.5	---	---	---	6.3	5.0	5.6	5.5	2.9	4.2
17	7.1	4.3	6.0	---	---	---	5.8	4.2	5.0	6.4	3.4	4.8
18	7.8	4.9	6.2	---	---	---	6.1	3.8	4.9	6.1	3.4	4.9
19	6.9	4.6	5.8	---	---	---	5.9	4.1	5.0	6.4	3.1	4.6
20	7.7	4.4	5.9	---	---	---	6.2	4.0	5.0	6.3	4.1	5.3
21	7.5	4.5	6.0	---	---	---	6.3	3.6	5.0	5.8	3.8	4.8
22	6.7	4.8	5.9	---	---	---	7.8	3.5	5.8	4.7	3.2	4.0
23	6.6	4.0	5.6	---	---	---	8.9	4.2	6.4	4.5	3.0	3.7
24	5.4	3.1	4.5	---	---	---	9.5	4.9	6.9	5.2	2.9	4.0
25	4.9	3.3	4.3	---	---	---	10.1	3.9	6.1	6.2	3.3	4.6
26	5.8	3.2	4.4	---	---	---	9.2	3.5	5.8	4.5	2.9	3.7
27	5.6	3.1	4.1	---	---	---	9.4	4.1	6.0	4.1	2.4	3.4
28	5.7	2.6	4.2	---	---	---	12.2	4.2	6.8	4.6	1.8	2.8
29	---	---	---	---	---	---	12.6	4.3	8.1	2.8	1.1	2.0
30	---	---	---	11.9	5.6	7.8	8.6	4.8	6.3	6.8	2.3	4.1
31	---	---	---	9.8	4.4	6.5	---	---	---	8.5	1.8	4.8
MONTH	---	---	---	---	---	---	12.6	2.9	5.7	9.3	1.1	4.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	2.3	4.8	7.3	2.5	4.4	5.4	2.6	3.9	7.1	3.1	4.8
2	11.6	2.2	4.7	9.5	3.1	6.0	4.9	2.3	3.3	6.3	2.4	4.5
3	5.9	2.3	3.8	14.1	4.0	7.8	5.9	2.6	4.1	6.7	3.0	4.4
4	6.0	2.5	4.0	14.3	4.0	8.5	6.0	1.8	3.5	5.9	2.4	3.9
5	4.5	2.2	3.5	12.8	3.8	7.2	6.9	2.9	4.9	6.3	2.7	4.1
6	5.5	2.2	3.7	9.6	3.4	5.9	8.4	4.1	6.4	5.9	3.2	4.2
7	5.2	2.8	4.0	10.6	2.6	5.6	8.1	3.7	6.5	7.4	2.3	4.5
8	5.3	1.6	4.1	7.5	2.2	3.9	6.8	2.7	4.8	6.4	3.2	4.3
9	4.7	2.9	3.8	9.7	2.2	6.0	6.8	3.8	5.1	5.6	2.6	3.9
10	5.2	2.6	4.2	10.7	4.2	7.7	6.1	2.5	4.1	4.6	2.8	3.3
11	6.4	3.7	5.0	10.3	4.5	7.2	6.1	2.7	4.3	5.7	2.1	3.4
12	7.4	4.5	5.5	11.2	3.9	7.5	6.8	2.6	4.0	7.4	2.2	3.7
13	5.2	3.7	4.4	7.1	1.8	4.4	7.7	2.1	4.8	3.5	2.6	2.9
14	5.8	4.2	4.9	8.9	1.0	5.2	8.5	3.9	6.5	5.6	1.7	2.8
15	5.6	3.5	4.7	8.2	2.3	5.8	7.6	4.1	6.3	3.0	1.6	2.1
16	6.4	3.4	4.8	9.5	5.1	7.4	6.8	3.1	5.3	2.8	1.2	1.8
17	6.1	3.3	4.2	8.8	5.1	7.2	6.4	2.8	4.8	3.7	2.1	2.7
18	5.8	2.9	4.2	9.8	5.5	7.8	7.1	2.6	5.1	4.4	1.9	3.1
19	5.7	2.7	4.0	8.9	5.1	7.3	6.8	2.3	5.2	6.2	2.7	4.0
20	4.7	2.7	3.7	8.2	5.1	7.1	6.7	1.7	4.2	6.8	2.7	4.5
21	6.0	2.9	4.4	---	---	---	6.1	2.5	4.3	6.5	2.8	4.5
22	5.4	2.7	3.9	---	---	---	---	---	---	4.9	2.9	3.9
23	6.2	1.9	3.7	---	---	---	---	---	---	5.6	3.3	4.2
24	6.4	3.6	4.8	---	---	---	---	---	---	4.9	2.8	3.8
25	6.9	3.6	4.7	---	---	---	---	---	---	5.2	3.2	4.0
26	6.7	3.1	4.7	7.8	---	---	5.8	1.8	3.4	5.2	3.2	4.1
27	5.0	1.6	3.0	8.4	3.0	5.7	6.6	1.9	3.9	5.6	3.1	4.3
28	4.6	1.4	2.7	8.2	4.9	6.6	7.0	1.8	4.2	6.5	2.4	4.0
29	4.5	1.0	2.4	7.6	2.6	5.5	5.4	2.0	3.4	5.9	2.0	3.9
30	5.6	2.0	3.2	6.6	2.8	5.0	6.0	2.3	3.9	6.8	3.0	4.6
31	---	---	---	5.9	3.3	4.3	6.5	2.2	4.4	---	---	---
MONTH	11.6	1.0	4.1	---	---	---	---	---	---	7.4	1.2	3.8

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 mi^2. Oct 1, 1976, to Dec 31, 1977, 12.0 mi^2; Aug 1964 to Sep 30, 1976, 11.6 mi^2. Drainage area changes were the result of ditch relocations or extensions.

PERIOD OF RECORD.--Aug 1964 to Sep 1981 (daily mean discharges). Oct 1981 to Sep 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 fair. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--17 years (water years 1965-81), 12.3 ft^3/s, (8,910 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/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 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge.							

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08075000 BRAYS BAYOU AT HOUSTON, TX

LOCATION.--Lat 29°41′49", long 95°24′43", Harris County, Hydrologic Unit 12040104, near right bank at downstream side of Main Street Bridge in southwest Houston, 1.6 mi upstream from Harris Gully, and 11.6 mi upstream from Buffalo Bayou.

DRAINAGE AREA.--94.9 mi^2.

PERIOD OF RECORD.--May 1936 to current year.
Water-quality records.--Chemical data: Oct 1968 to Sep 1998. Biochemical data: Oct 1968 to Sep 1998. Pesticide data: Oct 1968 to Sep 1998.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.16 ft below sea level, 1973 adjustment; unadjusted for land-surface subsidence. Prior to Jun 20, 1936, nonrecording gage, and Jun 20, 1936, to Nov 25, 1959, water-stage recorder at site 0.8 mi downstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. Low flow is sustained mostly from wastewater effluent from Houston suburbs. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1911, 56.0 ft in Jun 1919 before channel rectification, former site, from information by engineer for city of Houston.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,300 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0745	7,620	37.32	Apr 12	0945	7,640	37.34

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	121	106	108	260	100	96	264	127	209	291	159
2	110	109	196	108	159	100	2290	2810	126	136	413	165
3	111	105	139	110	107	98	2120	381	127	129	238	160
4	110	105	904	106	99	e97	283	772	146	119	182	163
5	106	106	242	105	99	e100	159	587	905	121	155	171
6	99	106	110	106	100	e100	119	185	178	118	130	176
7	99	107	101	101	314	97	130	153	125	122	150	174
8	101	108	101	534	154	98	181	142	128	142	199	176
9	109	105	155	128	102	99	144	127	355	137	159	226
10	107	106	111	109	95	e100	129	126	426	253	141	322
11	106	109	105	101	96	e98	127	122	182	162	169	261
12	103	104	351	103	98	e96	2540	129	197	147	207	189
13	103	110	125	105	100	e95	398	155	136	147	145	520
14	108	113	102	100	101	e600	187	130	132	139	145	365
15	102	112	98	e105	96	468	135	128	131	130	152	284
16	101	108	e95	e108	96	150	154	120	127	132	139	176
17	102	120	e100	e110	101	105	151	129	330	146	141	154
18	101	111	e105	e105	101	105	138	120	313	139	138	153
19	172	111	e110	100	99	113	156	161	252	137	149	148
20	108	110	e180	100	99	101	136	2170	182	131	157	146
21	104	111	e130	103	100	102	138	293	140	132	155	359
22	102	546	102	104	e100	102	132	163	127	140	182	321
23	107	690	103	104	e500	100	134	139	120	256	156	167
24	109	120	110	102	149	99	127	134	117	282	157	158
25	110	295	103	107	116	99	128	133	126	150	155	148
26	105	116	102	101	e150	102	130	132	300	137	151	138
27	107	104	106	1050	e110	99	128	131	169	128	157	139
28	109	104	102	363	e100	99	137	256	138	144	154	135
29	111	111	103	118	97	96	137	136	131	149	143	139
30	193	104	104	107	---	101	136	156	138	141	147	142
31	171	---	113	104	---	101	---	132	---	657	151	---
TOTAL	3492	4487	4714	4915	3898	4020	11100	10716	6131	5212	5308	6134
MEAN	113	150	152	159	134	130	370	346	204	168	171	204
MAX	193	690	904	1050	500	600	2540	2810	905	657	413	520
MIN	99	104	95	100	95	95	96	120	117	118	130	135
AC-FT	6930	8900	9350	9750	7730	7970	22020	21260	12160	10340	10530	12170

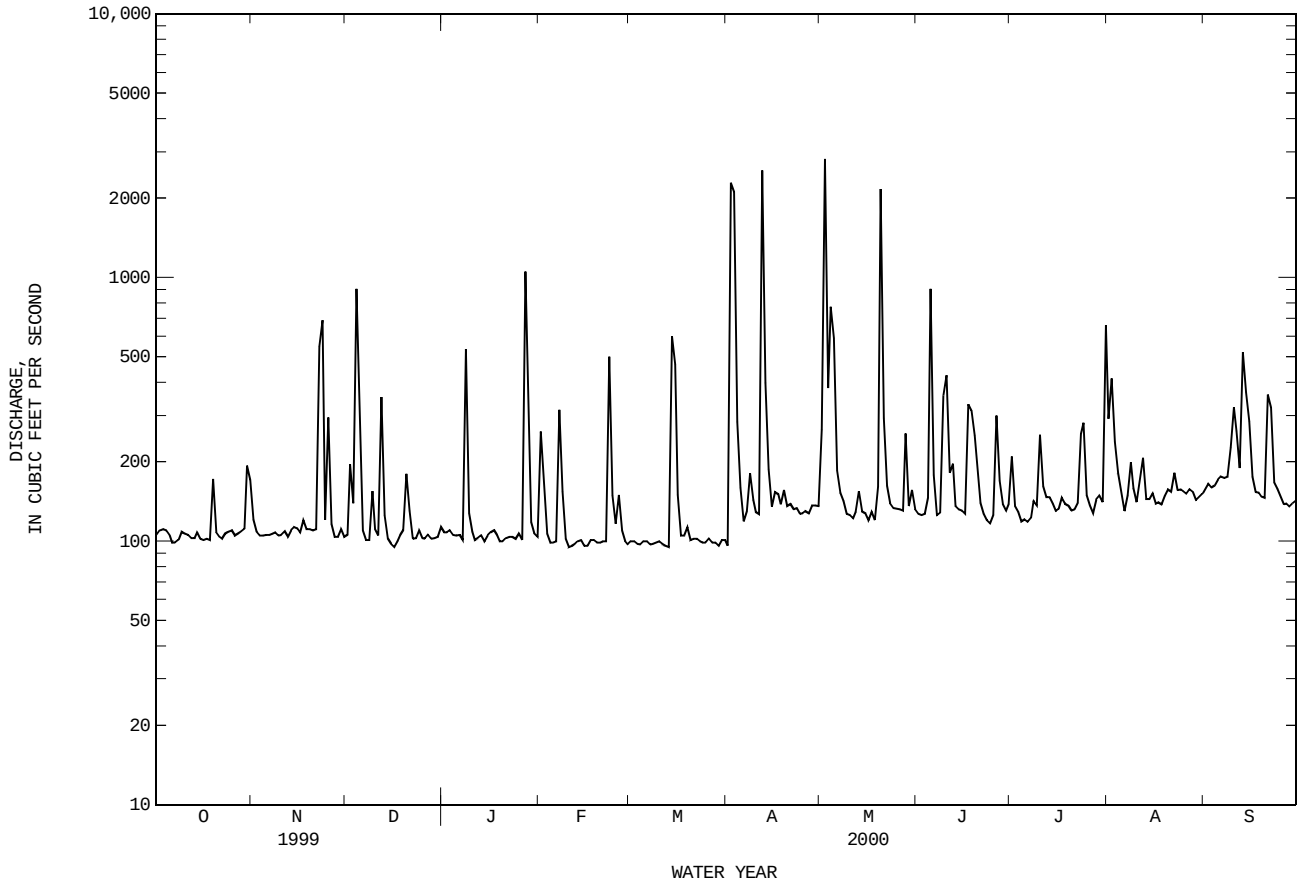
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2000, BY WATER YEAR (WY)

MEAN	157	169	158	189	181	140	154	188	205	128	133	177
MAX	1029	720	626	760	893	627	713	636	941	519	880	857
(WY)	1995	1999	1992	1991	1992	1997	1991	1997	1973	1942	1983	1979
MIN	.58	.68	5.98	1.90	9.73	1.36	1.40	.95	3.78	1.72	.74	1.12
(WY)	1939	1939	1951	1940	1947	1940	1939	1937	1937	1937	1940	1939

08075000 BRAYS BAYOU AT HOUSTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1936 - 2000	
ANNUAL TOTAL	76071		70127			
ANNUAL MEAN	208		192		165	
HIGHEST ANNUAL MEAN					430	1992
LOWEST ANNUAL MEAN					15.1	1940
HIGHEST DAILY MEAN	3910	Mar 19	2810	May 2	16300	Oct 18 1994
LOWEST DAILY MEAN	94	Sep 10	95	Dec 16	.10	Oct 11 1937
ANNUAL SEVEN-DAY MINIMUM	98	Sep 8	97	Feb 10	.19	Oct 6 1937
INSTANTANEOUS PEAK FLOW			7640	Apr 12	29000	Jun 15 1976
INSTANTANEOUS PEAK STAGE			37.34	Apr 12	52.13	Jun 15 1976
ANNUAL RUNOFF (AC-FT)	150900		139100		119600	
10 PERCENT EXCEEDS	406		286		294	
50 PERCENT EXCEEDS	111		128		70	
90 PERCENT EXCEEDS	102		100		5.8	

e Estimated



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 mi^2.

PERIOD OF RECORD.--Aug 1964 to Sep 1978 (daily mean discharge). Dec 1978 to Aug 1979 (discharge measurements and supplemental peak discharges only). Oct 1980 to Sep 1991 (daily mean discharge). Oct 1991 to Sep 1992 (annual maximum). Oct 1992 to Sep 1996 (peak discharges greater than base discharge). Oct 1996 to current year (daily mean discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level; unadjusted for land-surface subsidence. Satellite telemeter at station.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	1900	1,270	44.35	Apr 12	1030	1,330	44.61

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	9.3	9.1	14	18	7.4	9.5	14	11	7.4	35	7.3
2	7.3	8.7	14	14	16	7.5	471	460	8.9	7.1	34	8.5
3	7.0	9.0	12	14	12	7.3	510	59	8.6	6.9	22	8.5
4	6.6	8.8	61	14	10	7.3	43	22	9.2	7.1	16	8.9
5	6.2	7.7	35	15	10	7.6	18	23	66	6.7	23	11
6	6.4	8.2	17	18	10	7.4	12	14	16	6.9	9.0	13
7	6.4	7.9	14	18	22	7.2	10	11	11	7.2	8.3	12
8	6.1	7.0	12	49	14	6.9	12	11	10	8.2	10	12
9	7.0	7.6	29	25	10	7.4	11	9.9	19	10	12	12
10	7.9	7.9	16	20	9.3	6.5	10	10	23	8.3	8.8	18
11	8.1	6.9	11	15	9.6	8.6	10	10	12	7.9	7.9	36
12	8.7	7.5	12	12	11	7.8	523	8.9	10	8.7	8.1	23
13	8.4	7.3	9.8	11	11	7.8	59	9.4	9.2	11	7.4	63
14	7.6	7.9	9.6	11	10	43	20	8.7	7.9	11	16	25
15	7.7	7.3	9.0	12	8.2	93	14	8.3	9.4	11	6.9	14
16	8.5	6.7	9.7	12	9.5	33	11	8.8	11	11	6.5	11
17	8.1	6.6	10	12	12	11	10	7.5	21	12	7.0	11
18	8.7	7.1	14	12	11	9.2	9.6	8.7	15	11	7.6	10
19	9.2	7.9	24	16	10	11	9.7	12	12	11	7.6	9.9
20	8.9	10	25	17	9.2	9.4	9.2	259	13	11	7.9	9.9
21	10	7.5	18	17	8.0	9.7	9.4	28	11	11	7.8	41
22	9.2	37	15	18	8.2	8.6	9.3	22	9.7	12	7.2	21
23	8.4	45	14	18	22	7.9	9.4	12	10	18	7.9	15
24	8.0	11	13	14	14	7.9	9.3	12	8.4	15	9.1	12
25	8.0	19	18	14	11	8.2	11	10	8.2	12	8.8	12
26	7.8	11	18	14	9.8	8.0	9.6	11	9.1	11	9.4	11
27	8.0	10	16	141	8.8	7.9	9.5	11	8.0	13	11	11
28	8.6	10	14	55	8.2	7.6	10	15	7.3	12	11	10
29	8.9	9.9	14	14	7.3	11	10	42	7.4	14	8.3	10
30	11	8.7	14	12	---	13	10	33	7.3	14	8.0	9.7
31	13	---	13	12	---	20	---	14	---	72	8.0	---
TOTAL	253.8	326.4	520.2	660	330.1	416.1	1879.5	1185.2	389.6	385.4	357.5	476.7
MEAN	8.19	10.9	16.8	21.3	11.4	13.4	62.7	38.2	13.0	12.4	11.5	15.9
MAX	13	45	61	141	22	93	523	460	66	72	35	63
MIN	6.1	6.6	9.0	11	7.3	6.5	9.2	7.5	7.3	6.7	6.5	7.3
AC-FT	503	647	1030	1310	655	825	3730	2350	773	764	709	946

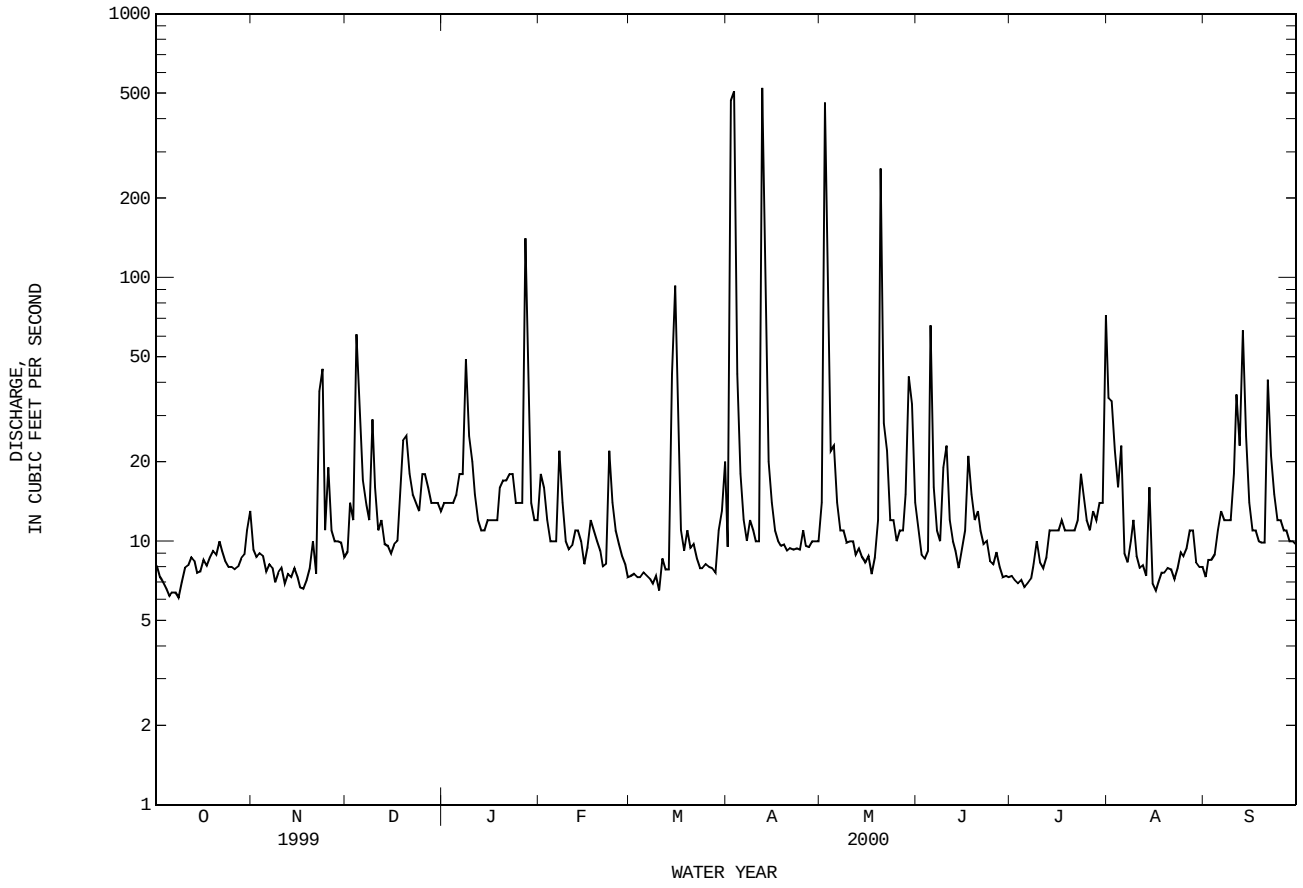
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000h, BY WATER YEAR (WY)

MEAN	42.7	26.6	32.4	42.9	35.6	27.4	31.8	41.5	51.3	18.5	26.2	36.0
MAX	295	99.1	119	155	82.0	103	134	138	212	60.1	154	156
(WY)	1995	1999	1987	1991	1985	1997	1997	1970	1993	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000h	
ANNUAL TOTAL	8972.7		7180.5			
ANNUAL MEAN	24.6		19.6		31.5	
HIGHEST ANNUAL MEAN					57.8	1973
LOWEST ANNUAL MEAN					10.7	1967
HIGHEST DAILY MEAN	643	May 30	523	Apr 12	5640	Oct 18 1994
LOWEST DAILY MEAN	5.0	Aug 26	6.1	Oct 8	1.5	Jul 26 1965
ANNUAL SEVEN-DAY MINIMUM	6.5	Oct 3	6.5	Oct 3	2.2	Jul 22 1965
INSTANTANEOUS PEAK FLOW			1330	Apr 12	7510	Oct 18 1994
INSTANTANEOUS PEAK STAGE			44.61	Apr 12	57.12	Jun 15 1976
ANNUAL RUNOFF (AC-FT)	17800		14240		22810	
10 PERCENT EXCEEDS	35		23		51	
50 PERCENT EXCEEDS	10		10		12	
90 PERCENT EXCEEDS	7.8		7.4		6.2	

h See PERIOD OF RECORD paragraph.

08075400 SIMS BAYOU AT HIRAM CLARKE STREET, HOUSTON, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Oct 1952 to Sep 1995 (daily mean discharge), Oct 1995 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: Oct 1968 to Sep 1998. Biochemical data: Oct 1968 to Sep 1998. Pesticide data: Oct 1968 to Sep 1998.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s, Aug 18, 1983, from Hurricane Alica, gage height, 33.23 ft; minimum daily, 0.9 ft^3/s, Aug 7, 1955.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s:

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

No peak greater than base discharge.

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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 mi^2.

PERIOD OF RECORD.--Apr 1964 to Sep 1966 (daily mean discharge). Oct 1967 to Sep 1982 (discharge greater than base discharge), Oct 1982 to current year (gage heights only).
Water-quality records.--Chemical data: Oct 1968 to Sep 1981. Biochemical data: Oct 1968 to Sep 1981. Pesticide data: Oct 1968 to Sep 1981. Water temperature: Apr 1964 to Sep 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. Jun 1964 to Jan 1965, auxiliary nonrecording gage 0.8 mi downstream at same datum. Jan 1965 to Sep 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 ft^3/s, Jun 9, 1975; maximum gage height, 23.85 ft, Sep 20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.67 ft, May 20; minimum gage height, 3.62 ft, Dec 10, 15.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.98	4.42	4.89	3.78	5.35	4.43	4.81	3.66	5.24	4.00	5.21	3.74
2	6.09	4.42	4.09	3.70	6.53	4.57	5.11	3.70	5.06	3.75	5.30	3.72
3	6.14	4.25	5.51	3.73	7.49	5.16	5.28	3.74	4.78	3.70	5.36	3.72
4	5.95	4.27	5.55	4.24	7.23	4.73	4.36	3.66	4.43	3.67	4.56	3.64
5	5.88	4.23	5.30	4.10	5.65	3.82	4.85	3.65	4.45	3.64	5.10	3.73
6	6.11	4.41	5.29	3.93	4.75	3.70	5.41	3.91	4.62	3.71	5.25	4.14
7	6.42	4.96	5.05	3.79	5.60	3.84	5.49	3.99	5.09	3.76	5.63	4.35
8	6.55	5.16	5.23	3.79	5.79	4.37	5.78	4.05	4.44	3.77	5.56	4.45
9	6.36	4.91	5.39	3.90	5.79	3.74	5.15	3.79	4.36	3.69	5.14	4.11
10	5.86	4.41	5.50	3.98	4.79	3.62	4.93	3.75	4.74	3.73	5.44	3.98
11	5.67	4.05	5.50	3.87	5.72	4.26	4.53	3.74	4.79	3.71	5.46	3.91
12	5.89	4.18	5.41	3.81	6.00	3.88	4.71	3.74	4.66	3.65	5.24	3.78
13	5.97	4.25	5.42	3.96	4.24	3.70	4.84	3.73	5.11	3.65	5.53	3.84
14	5.77	4.07	5.49	3.85	4.38	3.72	5.33	3.64	5.22	3.68	6.18	3.86
15	5.76	4.40	5.08	3.79	4.30	3.62	5.59	4.45	5.15	3.67	6.96	4.60
16	5.93	4.42	5.17	4.09	4.79	3.66	5.07	3.72	5.19	3.70	5.53	3.91
17	5.78	3.82	5.41	---	5.21	4.05	4.95	3.66	5.63	3.74	5.24	3.80
18	4.99	3.86	5.35	---	5.67	3.94	4.96	3.68	5.49	3.74	5.47	3.86
19	4.78	3.79	5.17	---	5.25	3.71	4.98	3.69	4.85	3.68	5.45	3.88
20	4.60	3.78	---	---	5.38	4.05	4.94	3.67	4.92	3.71	5.86	3.82
21	5.28	4.14	---	---	5.23	3.92	5.35	3.71	5.20	3.83	6.50	5.21
22	5.22	3.81	6.25	4.60	5.30	3.77	5.67	3.86	5.48	4.35	6.24	4.81
23	5.07	3.76	6.87	---	4.93	3.72	5.45	3.71	5.81	4.33	6.00	4.50
24	5.48	3.83	---	---	4.86	3.68	4.49	3.63	5.57	3.93	5.47	3.94
25	5.31	3.79	---	---	4.44	3.72	4.49	3.71	5.82	4.44	5.35	3.75
26	5.21	3.76	---	---	4.63	3.71	5.23	3.64	5.76	4.16	5.30	3.70
27	5.16	3.75	---	---	4.15	3.66	6.94	4.70	4.72	3.72	5.33	3.74
28	5.30	3.76	---	---	3.83	3.64	4.96	3.79	5.63	3.75	5.85	3.79
29	5.74	4.14	---	---	4.06	3.65	3.95	3.69	5.55	4.17	5.92	4.07
30	5.93	3.86	4.95	4.05	4.56	3.68	4.52	3.67	---	---	5.20	3.72
31	5.32	3.78	---	---	4.42	3.65	5.30	3.73	---	---	5.94	4.03
MONTH	6.55	3.75	---	---	7.49	3.62	6.94	3.63	5.82	3.64	6.96	3.64

08075650 BERRY BAYOU AT FOREST OAKS STREET, HOUSTON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.16	4.68	6.86	4.88	6.02	4.03	5.53	3.76	5.40	3.86	4.95	3.76
2	6.88	4.40	8.39	5.20	5.89	3.92	5.63	3.74	5.29	3.70	4.88	3.70
3	10.77	4.40	6.13	4.50	5.63	4.00	5.86	3.77	5.35	3.88	4.69	3.71
4	4.60	3.92	7.08	4.47	5.75	3.86	5.96	3.87	5.27	3.79	4.48	3.77
5	5.24	3.83	6.82	4.80	5.82	3.83	5.75	4.01	4.95	3.97	5.00	3.83
6	5.50	4.00	6.55	4.28	5.20	4.00	5.56	3.90	4.97	3.82	5.51	3.93
7	5.40	3.77	6.38	4.28	5.72	3.87	5.28	3.81	5.03	3.87	6.03	4.33
8	5.11	3.90	6.36	4.14	6.53	4.62	5.13	3.96	5.72	3.97	5.78	4.32
9	5.87	3.76	6.27	4.41	6.59	4.67	5.32	3.93	5.42	3.96	6.13	4.20
10	6.29	4.35	5.98	4.05	6.50	5.16	5.35	3.86	5.39	3.79	6.02	4.53
11	5.87	3.96	6.17	4.49	6.30	4.96	5.31	3.81	5.12	3.74	6.60	4.10
12	11.02	4.06	6.24	4.90	5.83	4.16	5.06	3.74	5.03	3.79	5.86	4.21
13	5.00	4.00	5.66	4.19	5.47	3.95	4.84	3.70	5.26	3.72	7.09	4.48
14	5.43	3.87	5.68	4.23	6.08	4.21	4.69	3.71	5.86	3.86	5.71	4.41
15	5.71	4.25	5.78	4.47	5.69	4.13	4.59	3.70	5.64	4.07	5.69	4.00
16	5.71	4.41	5.90	4.46	6.16	4.26	5.08	3.69	4.92	3.73	5.80	4.38
17	5.09	3.99	6.41	4.58	6.67	4.64	5.16	3.69	4.98	3.70	5.87	4.28
18	5.19	3.84	6.83	4.86	6.47	4.34	5.19	3.67	4.87	3.76	5.80	4.41
19	5.58	3.79	7.22	4.74	6.13	4.17	4.89	3.69	4.65	3.71	5.98	4.53
20	5.70	3.93	12.67	5.02	6.21	4.36	5.01	3.68	4.86	3.83	6.06	4.03
21	4.59	3.71	5.73	4.16	5.85	4.25	4.93	3.67	4.80	3.85	6.00	4.16
22	5.90	3.70	5.60	3.92	5.68	3.83	4.81	3.66	6.26	4.11	6.27	4.38
23	6.38	4.47	5.73	3.86	5.35	3.85	5.35	3.89	5.70	3.89	5.98	4.33
24	5.85	4.04	5.73	4.09	5.47	4.26	4.88	3.92	5.75	3.94	6.02	3.97
25	5.35	3.70	6.13	4.19	5.67	4.27	5.23	3.83	5.40	3.85	4.07	3.70
26	5.52	3.77	6.51	5.01	5.91	4.27	5.29	3.78	5.32	3.83	5.03	3.68
27	5.64	3.80	6.01	5.02	5.13	4.02	5.19	3.75	5.50	3.78	5.14	3.81
28	5.06	3.81	5.81	4.01	5.37	3.89	5.38	3.72	5.37	3.83	5.26	3.96
29	5.55	3.85	5.33	4.09	5.30	3.81	5.44	3.69	5.20	3.76	5.70	4.09
30	6.81	5.14	5.32	4.07	5.55	3.77	5.29	3.66	4.71	3.73	5.68	3.99
31	---	---	5.58	4.05	---	---	6.16	3.70	4.93	3.70	---	---
MONTH	11.02	3.70	12.67	3.86	6.67	3.77	6.16	3.66	6.26	3.70	7.09	3.68

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 mi^2.

PERIOD OF RECORDS.--Oct 1971 to current year.
Water-quality records.--Chemical data: May 1971 to Sep 1973, Oct 1976 to Jul 1979. Biochemical data: May 1971 to Sep 1973, Oct 1976 to Jul 1979. Pesticide data: May 1971 to Sep 1973, Oct 1976 to Jul 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.--No estimated daily discharges. Records fair. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	0145	1,570	14.06	No other peak greater than base discharge.			

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

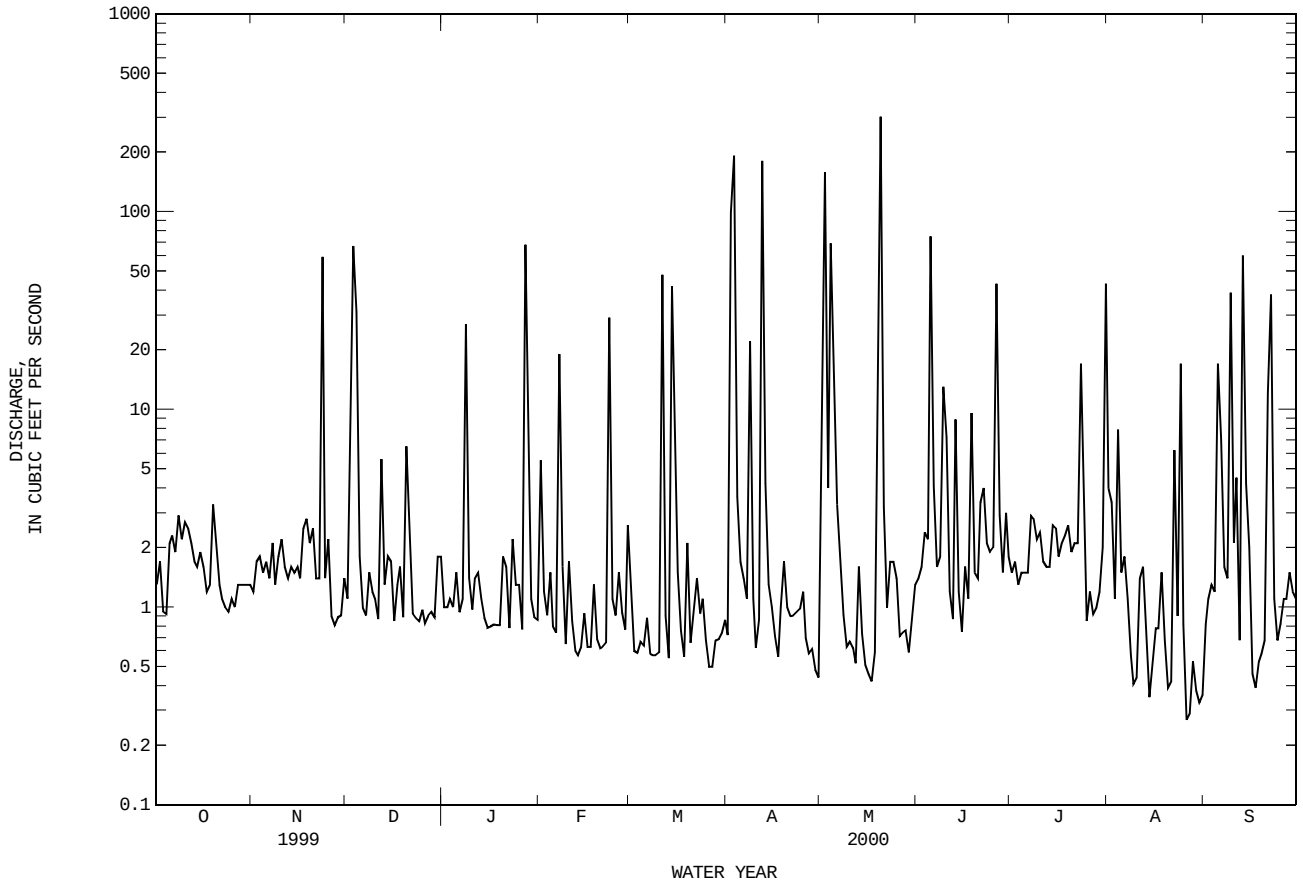
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.2	1.1	1.0	5.5	1.2	.72	19	1.4	1.5	4.0	.82
2	1.7	1.7	14	1.0	1.2	.60	99	158	1.6	1.7	3.4	1.1
3	.95	1.8	67	1.1	.91	.59	192	4.0	2.4	1.3	1.1	1.3
4	.92	1.5	31	1.0	1.5	.67	3.6	69	2.2	1.5	7.9	1.2
5	2.1	1.7	1.8	1.5	.80	.64	1.7	24	75	1.5	1.5	17
6	2.3	1.4	.99	.94	.74	.88	1.4	3.3	4.1	1.5	1.8	7.1
7	1.9	2.1	.91	1.1	19	.58	1.1	1.8	1.6	2.9	1.1	1.6
8	2.9	1.3	1.5	27	1.6	.57	22	.91	1.8	2.8	.57	1.4
9	2.2	1.8	1.2	1.4	.65	.57	1.1	.63	13	2.2	.41	39
10	2.7	2.2	1.1	.97	1.7	.59	.62	.67	7.2	2.4	.44	2.1
11	2.5	1.6	.87	1.4	.85	48	.86	.62	1.2	1.7	1.4	4.5
12	2.1	1.4	5.6	1.5	.60	.90	180	.52	.87	1.6	1.6	.68
13	1.7	1.6	1.3	1.1	.57	.55	4.2	1.6	8.9	1.6	.74	60
14	1.6	1.5	1.8	.88	.63	42	1.3	.73	1.2	2.6	.35	4.2
15	1.9	1.6	1.7	.79	.93	12	1.0	.51	.75	2.5	.51	2.0
16	1.6	1.4	.85	.80	.63	1.5	.71	.46	1.6	1.8	.78	.46
17	1.2	2.5	1.3	.82	.63	.76	.56	.42	1.1	2.1	.78	.39
18	1.3	2.8	1.6	.81	1.3	.56	1.0	.59	9.6	2.3	1.5	.53
19	3.3	2.1	.89	.81	.69	2.1	1.7	8.2	1.5	2.6	.68	.58
20	2.0	2.5	6.5	1.8	.62	.66	1.0	301	1.4	1.9	.39	.68
21	1.3	1.4	2.4	1.6	.63	.95	.90	3.2	3.4	2.1	.42	12
22	1.1	1.4	.93	.78	.66	1.4	.91	.99	4.0	2.1	6.2	38
23	1.0	59	.88	2.2	29	.93	.94	1.7	2.1	17	.90	1.1
24	.95	1.4	.85	1.3	1.1	1.1	.98	1.7	1.9	3.1	17	.68
25	1.1	2.2	.97	1.3	.91	.68	1.2	1.4	2.0	.85	.82	.83
26	1.0	.90	.83	.77	1.5	.50	.70	.71	43	1.2	.27	1.1
27	1.3	.81	.90	68	.94	.50	.58	.74	2.9	.92	.29	1.1
28	1.3	.89	.94	6.7	.77	.68	.61	.76	1.5	.99	.53	1.5
29	1.3	.91	.89	1.1	2.6	.69	.48	.59	3.0	1.2	.38	1.2
30	1.3	1.4	1.8	.89	---	.74	.44	.85	1.8	2.0	.33	1.1
31	1.3	---	1.8	.86	---	.86	---	1.3	---	43	.36	---
TOTAL	51.12	106.01	156.20	133.22	79.16	124.95	523.31	609.90	204.02	114.46	58.45	205.25
MEAN	1.65	3.53	5.04	4.30	2.73	4.03	17.4	19.7	6.80	3.69	1.89	6.84
MAX	3.3	59	67	68	29	48	192	301	75	43	17	60
MIN	.92	.81	.83	.77	.57	.50	.44	.42	.75	.85	.27	.39
AC-FT	101	210	310	264	157	248	1040	1210	405	227	116	407

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

MEAN	15.4	14.9	13.1	19.0	13.1	11.5	13.0	18.2	25.8	13.6	12.0	19.2
MAX	87.4	41.1	35.0	57.7	40.3	36.8	57.6	49.8	87.0	87.4	78.1	113
(WY)	1995	1987	1972	1980	1992	1979	1991	1981	1989	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1972 - 2000	
ANNUAL TOTAL	3984.10		2366.05			
ANNUAL MEAN	10.9		6.46		15.7	
HIGHEST ANNUAL MEAN					32.1	1979
LOWEST ANNUAL MEAN					4.97	1988
HIGHEST DAILY MEAN	704	May 12	301	May 20	1610	Jun 26 1989
LOWEST DAILY MEAN	.53	Aug 31	.27	Aug 26	.00	Aug 5 1972
ANNUAL SEVEN-DAY MINIMUM	.69	Aug 31	.43	Aug 25	.04	Jul 27 1986
INSTANTANEOUS PEAK FLOW			1570	May 20	4720	May 3 1981
INSTANTANEOUS PEAK STAGE			14.06	May 20	18.30	May 3 1981
ANNUAL RUNOFF (AC-FT)	7900		4690		11390	
10 PERCENT EXCEEDS	17		7.1		26	
50 PERCENT EXCEEDS	2.1		1.3		2.2	
90 PERCENT EXCEEDS	1.0		.59		.53	

08075730 VINCE BAYOU AT PASADENA, TX--Continued



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 mi^2.

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 Sep 1998. Biochemical data: Oct 1968 to Sep 1998. Pesticide data: Oct 1968 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	0515	1,340	33.37	No other peak greater than base discharge.			

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

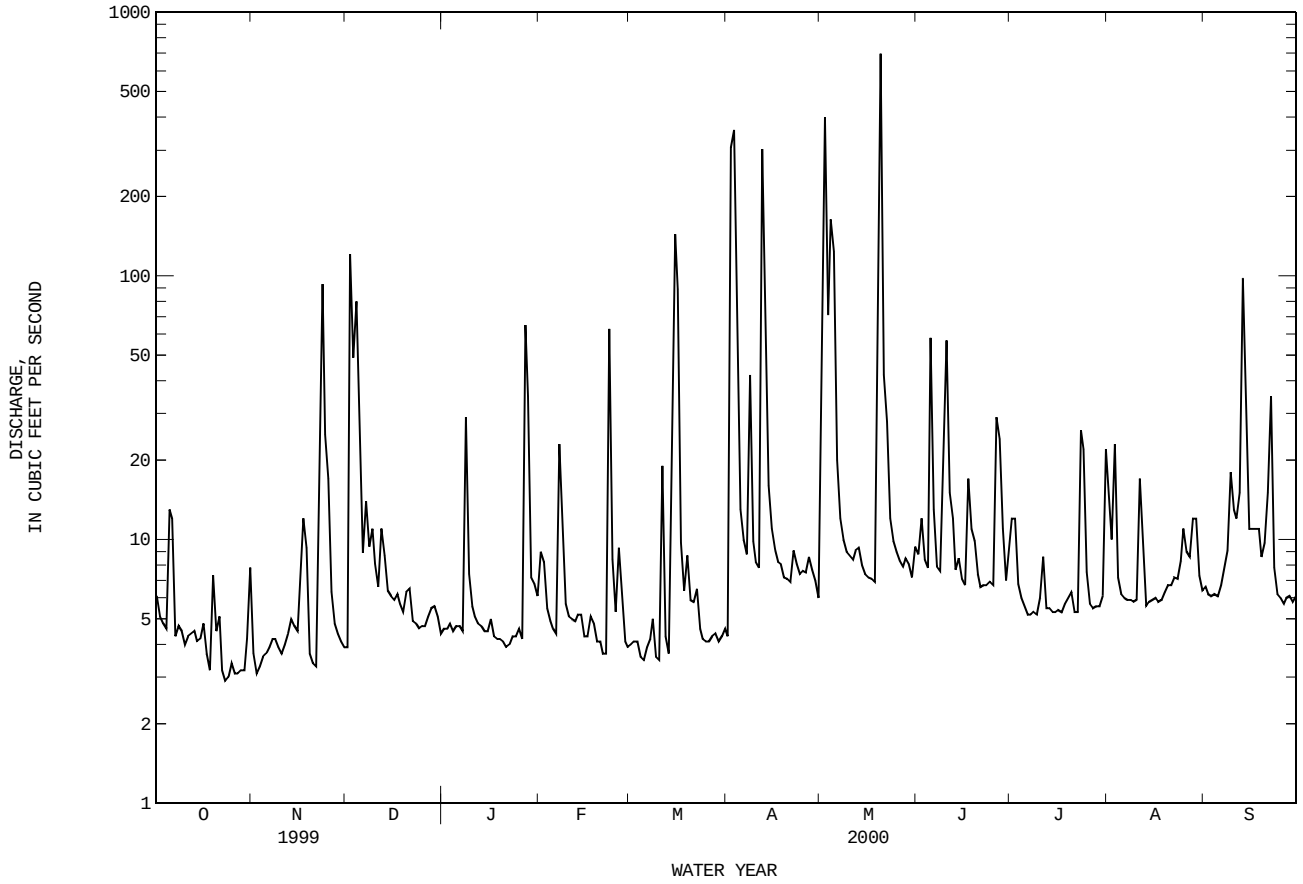
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	3.7	3.9	4.6	9.0	4.0	4.3	18	8.8	12	15	6.6
2	5.1	3.1	121	4.6	8.2	4.1	307	401	12	12	10	6.2
3	4.8	3.3	49	4.8	5.5	4.1	358	71	8.4	6.8	23	6.1
4	4.6	3.6	80	4.5	4.9	3.6	39	164	7.8	6.0	7.2	6.2
5	13	3.7	25	4.7	4.6	3.5	13	124	58	5.6	6.2	6.1
6	12	3.9	8.9	4.7	4.4	3.9	10	20	13	5.2	6.0	6.7
7	4.3	4.2	14	4.5	23	4.2	8.8	12	7.9	5.2	5.9	7.8
8	4.7	4.2	9.4	29	11	5.0	42	10	7.6	5.3	5.9	9.1
9	4.5	3.9	11	7.4	5.7	3.6	9.8	9.0	26	5.2	5.8	18
10	4.0	3.7	8.1	5.6	5.1	3.5	8.2	8.7	57	6.0	5.9	13
11	4.3	4.0	6.6	5.1	5.0	19	7.8	8.4	15	8.6	17	12
12	4.4	4.4	11	4.8	4.9	4.3	302	9.1	12	5.5	9.9	15
13	4.5	5.0	8.7	4.7	5.2	3.7	42	9.3	7.7	5.5	5.6	98
14	4.1	4.7	6.4	4.5	5.2	38	16	8.0	8.5	5.3	5.8	34
15	4.2	4.5	6.1	4.5	4.3	144	11	7.4	7.1	5.3	5.9	11
16	4.8	6.9	5.9	5.0	4.3	89	9.2	7.2	6.7	5.4	6.0	11
17	3.7	12	6.2	4.3	5.1	9.7	8.2	7.1	17	5.3	5.8	11
18	3.2	9.3	5.7	4.2	4.8	6.4	8.1	6.9	11	5.7	5.9	11
19	7.3	3.7	5.3	4.2	4.1	8.7	7.2	25	9.9	6.0	6.3	8.6
20	4.5	3.4	6.3	4.1	4.1	5.9	7.1	696	7.4	6.3	6.7	9.7
21	5.1	3.3	6.5	3.9	3.7	5.8	6.9	42	6.6	5.3	6.7	15
22	3.2	13	4.9	4.0	3.7	6.5	9.1	28	6.7	5.3	7.2	35
23	2.9	93	4.8	4.3	63	4.6	8.1	12	6.7	26	7.1	7.8
24	3.0	25	4.6	4.3	8.4	4.2	7.4	9.9	6.9	22	8.3	6.2
25	3.4	17	4.7	4.6	5.3	4.1	7.6	9.0	6.7	7.5	11	6.0
26	3.1	6.3	4.7	4.2	9.3	4.1	7.5	8.3	29	5.7	9.0	5.7
27	3.1	4.8	5.1	65	6.1	4.3	8.6	7.9	24	5.5	8.6	6.0
28	3.2	4.4	5.5	35	4.1	4.4	7.7	8.5	11	5.6	12	6.1
29	3.2	4.1	5.6	7.2	3.9	4.1	7.0	8.1	7.0	5.6	12	5.8
30	4.2	3.9	5.1	6.8	---	4.3	6.0	7.2	8.9	6.1	7.3	6.1
31	7.8	---	4.4	6.1	---	4.6	---	9.4	---	22	6.4	---
TOTAL	150.3	270.0	454.4	265.2	235.9	419.2	1294.6	1772.4	422.3	244.8	261.4	406.8
MEAN	4.85	9.00	14.7	8.55	8.13	13.5	43.2	57.2	14.1	7.90	8.43	13.6
MAX	13	93	121	65	63	144	358	696	58	26	23	98
MIN	2.9	3.1	3.9	3.9	3.7	3.5	4.3	6.9	6.6	5.2	5.6	5.7
AC-FT	298	536	901	526	468	831	2570	3520	838	486	518	807

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

MEAN	25.3	20.7	21.5	28.4	25.2	24.7	23.5	31.0	34.8	16.3	16.8	27.9
MAX	154	67.9	68.0	99.4	107	113	83.0	91.1	136	83.4	121	194
(WY)	1995	1999	1987	1991	1992	1993	1979	1982	1973	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

08075770 HUNTING BAYOU AT INTERSTATE HIGHWAY 610, HOUSTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	6655.9		6197.3			
ANNUAL MEAN	18.2		16.9		24.9	
HIGHEST ANNUAL MEAN					45.2	1979
LOWEST ANNUAL MEAN					6.97	1965
HIGHEST DAILY MEAN	661	May 12	696	May 20	2730	Oct 18 1994
LOWEST DAILY MEAN	2.9	Oct 23	2.9	Oct 23	.88	Aug 24 1971
ANNUAL SEVEN-DAY MINIMUM	3.1	Oct 22	3.1	Oct 22	1.0	Jul 2 1965
INSTANTANEOUS PEAK FLOW			1340	May 20	3470	Jun 26 1989
INSTANTANEOUS PEAK STAGE			33.37	May 20	39.91	Jun 26 1989
ANNUAL RUNOFF (AC-FT)	13200		12290		18040	
10 PERCENT EXCEEDS	34		23		39	
50 PERCENT EXCEEDS	6.3		6.3		7.0	
90 PERCENT EXCEEDS	3.9		4.0		3.3	



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 mi^2.

PERIOD OF RECORD.--Aug 1965 to Sep 1980 (daily mean discharge). Oct 1980 to Mar 1981 (discharge measurements and supplemental peak discharges only). Mar 1981 to Sep 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 Jul 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--26 years (water year 1966-80, 1982-1992), 40.5 ft^3/s (29,370 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft^3/s, Jun 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 ft^3/s, Oct 21, 22, 1969.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0645	4,150	80.67	May 19	1915	6,330	83.45
May 2	0645	3,710	80.06	May 20	0430	3,450	79.69

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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 mi^2. Oct 1952 to Sep 30, 1973, 72.7 mi^2; Oct 1, 1973 to Sep 30, 1988, 69.6 mi^2. 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 Sep 1998. Biochemical data: Oct 1968 to Sep 1998. Pesticide data: Oct 1968 to Sep 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.--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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	0930	3,700	56.81	May 4	2045	2,840	54.98
May 2	0930	3,630	56.67	May 20	0215	6,610	60.84

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	31	35	28	34	23	23	107	30	43	157	58
2	33	27	98	27	35	24	1400	1620	28	33	148	81
3	30	25	68	28	25	24	1100	232	57	23	83	55
4	29	27	430	26	24	23	143	732	50	21	41	31
5	26	26	184	26	24	24	49	710	99	29	35	30
6	26	27	43	24	23	26	37	94	37	23	34	30
7	28	28	31	24	293	26	32	54	26	22	34	28
8	31	27	30	134	107	23	111	47	26	20	54	28
9	32	27	57	48	34	24	39	44	51	20	136	65
10	187	26	42	33	26	25	33	41	258	22	44	43
11	43	25	29	28	25	36	30	43	280	22	35	61
12	35	27	115	30	24	32	433	39	104	23	39	60
13	29	26	58	30	25	24	119	39	44	22	37	481
14	29	25	30	28	26	73	41	38	35	24	33	152
15	29	28	25	27	24	143	30	39	27	22	31	65
16	28	26	25	30	24	72	28	39	25	21	30	42
17	30	24	24	30	24	28	28	38	106	25	31	37
18	35	25	37	30	24	24	27	38	69	25	30	36
19	77	25	26	31	23	29	28	519	52	23	28	35
20	48	27	30	32	23	28	27	3210	51	24	e29	34
21	36	28	44	29	24	26	25	265	30	23	30	226
22	34	120	30	30	23	76	26	82	25	24	29	429
23	30	514	28	30	323	35	27	46	24	63	30	66
24	29	83	28	31	56	32	26	36	24	78	45	43
25	29	101	28	29	32	25	25	32	23	33	45	44
26	30	47	25	29	58	25	24	32	24	27	35	37
27	29	41	27	37	35	26	24	31	36	24	30	36
28	28	40	28	42	27	25	26	84	29	e31	31	35
29	27	41	28	32	25	26	25	34	25	e33	30	34
30	41	37	29	27	---	26	26	33	100	e35	29	33
31	80	---	28	26	---	24	---	35	---	123	29	---
TOTAL	1238	1581	1740	1036	1470	1077	4012	8433	1795	981	1452	2435
MEAN	39.9	52.7	56.1	33.4	50.7	34.7	134	272	59.8	31.6	46.8	81.2
MAX	187	514	430	134	323	143	1400	3210	280	123	157	481
MIN	26	24	24	24	23	23	23	31	23	20	28	28
AC-FT	2460	3140	3450	2050	2920	2140	7960	16730	3560	1950	2880	4830

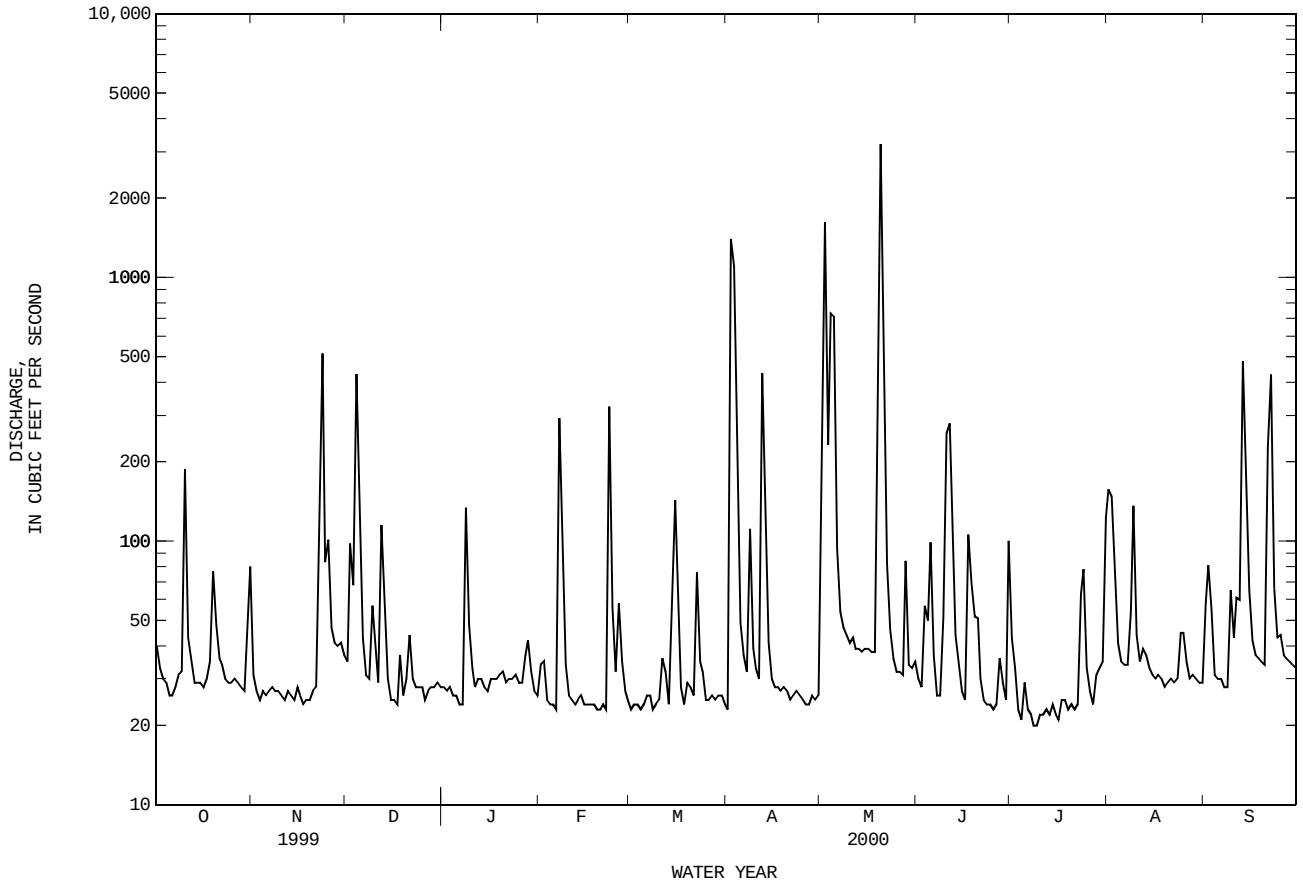
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

MEAN	72.5	71.5	72.9	79.7	92.1	70.8	81.6	116	100	54.3	48.2	78.7
MAX	353	338	293	284	353	374	328	480	549	291	330	443
(WY)	1985	1975	1992	1991	1961	1997	1973	1989	1973	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

08076000 GREENS BAYOU NEAR HOUSTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	26438		27250			
ANNUAL MEAN	72.4		74.5		78.1	
HIGHEST ANNUAL MEAN					180	1992
LOWEST ANNUAL MEAN					6.82	1956
HIGHEST DAILY MEAN	1430	May 12	3210	May 20	10700	May 18 1989
LOWEST DAILY MEAN	24	Nov 17	20	Jul 8	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	26	Nov 13	22	Jul 7	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			6610	May 20	16500	Jun 27 1989
INSTANTANEOUS PEAK STAGE			60.84	May 20	66.04	Jun 27 1989
ANNUAL RUNOFF (AC-FT)	52440		54050		56580	
10 PERCENT EXCEEDS	131		105		139	
50 PERCENT EXCEEDS	41		30		24	
90 PERCENT EXCEEDS	28		24		2.3	

e Estimated



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 mi^2.

PERIOD OF RECORD.--Feb 1986 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft^3/s Jun 27, 1989 (elevation 56.77 ft); minimum daily, 3.0 ft^3/s Sep 28, 29, and Oct 1, 1990.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	0530	4,250	54.50	No other peak greater than base discharge.			

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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 mi^2. Prior to Oct 1, 1973, 24.7 mi^2. Oct 1, 1973, to Sep 30, 1977, 28.3 mi^2. Oct 1, 1977 to Sep 30, 1988, 27.6 mi^2. Changes were the result of drainage ditch extensions or relocations.

PERIOD OF RECORD.--Oct 1952 to Sep 1993 (daily mean discharge), Oct 1993 to current year (peak discharges greater than base discharge).

Water-quality records.--Chemical data: Oct 1968 to Sep 1984. Biochemical data: Oct 1968 to Sep 1984. Pesticide data: Oct 1968 to Sep 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 poor. No known regulation or diversions. Stage-discharge relation is affected by seasonal vegetal growth during most years. Low flow is sustained wastewater effluent. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s Jun 27, 1989 (gage-height, 62.86 ft, from floodmark); no flow at times prior to 1956.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	0300	2,410	57.05	No other peak greater than base discharge.			

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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 mi^2.

PERIOD OF RECORD.--Nov 1962 to Dec 1964, May 1971 to Sep 1971 (discharge measurements only), Oct 1971 to Sep 1991, Aug 1992 to current year (high-water records only).
Water-quality records.--Chemical data: Oct 1970 to Sep 1981. Biochemical data: Oct 1970 to Sep 1981. Pesticide data: Oct 1970 to Sep 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. Discharge is computed for all storms that produce peak discharges above 2,000 ft^3/s. Gage was discontinued on Sep 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, 32,500 ft^3/s, Jun 27, 1989, gage height, 39.40 ft, from floodmark; minimum not determined (affected by tide).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 2	1715	4,360	19.15	May 20	0930	13,500	30.64

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	2090	2540	---	---	---	---
3	---	---	---	---	---	---	2700	916	---	---	---	---
4	---	---	---	---	---	---	452	774	---	---	---	---
5	---	---	---	---	---	---	---	2100	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	419	---	---	---	---
20	---	---	---	---	---	---	---	9900	---	---	---	---
21	---	---	---	---	---	---	---	1840	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---

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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 mi^2.

PERIOD OF RECORD.--Oct 1965 to Jul 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.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge.							

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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 Sep 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, 2.2 ft May 1; minimum elevation -1.8 ft Jan 4.

EXTREMES FOR CURRENT YEAR (GALVESTON BAY).--Maximum elevation, 2.5 ft May 2; minimum elevation -2.2 ft Jan 4.

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

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY	MOSES LAKE	GALV. BAY	GALV. BAY
DAY	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	1.9	2.0	.5	.8	.9	-.5	1.2	1.3	.8	.5	1.0	-.6
2	2.0	2.1	.8	.3	.4	-1.4	1.8	2.0	.9	.8	1.1	-.3
3	2.0	2.1	.7	.8	.8	-.7	2.0	2.2	1.0	1.0	1.2	.0
4	1.8	1.9	.7	1.0	1.1	.5	1.9	2.0	.9	.6	.6	-2.2
5	1.7	1.7	.7	.9	.9	.1	1.5	1.6	-.6	.2	1.0	-1.0
6	1.8	1.9	.7	1.0	1.0	.3	.2	.7	-1.1	1.1	1.5	.2
7	2.0	2.0	1.1	.9	.9	-.2	1.1	1.5	.2	1.3	1.5	.0
8	2.1	2.1	1.5	.9	1.0	-.2	1.6	1.9	.6	1.4	1.5	.1
9	1.8	1.8	1.2	1.1	1.2	-.1	1.6	1.8	-.1	1.0	1.2	-.4
10	1.6	1.6	.6	1.4	1.4	.0	.7	.7	-1.0	.8	1.0	-.6
11	1.4	1.5	.2	1.4	1.4	.1	1.2	1.7	.4	.4	.6	-.5
12	1.5	1.7	.6	1.3	1.3	-.2	1.8	2.0	.2	.4	.5	-.4
13	1.7	1.8	.5	1.3	1.3	.0	.4	.4	-1.5	.6	.7	-.1
14	1.5	1.6	.2	1.3	1.4	-.1	.2	.8	-.5	1.1	1.5	-.2
15	1.6	1.7	.4	.9	.9	-.5	.4	.9	-1.4	1.3	1.5	.8
16	1.7	1.8	.5	---	---	---	.6	1.0	-.4	.9	1.0	-.1
17	1.6	1.7	.0	---	---	---	1.0	1.4	.4	.7	.9	-.5
18	1.0	1.1	.1	1.2	1.3	.7	1.4	1.6	.2	.7	.9	-.7
19	1.0	1.0	-.6	1.2	1.3	.5	1.0	1.2	.0	.6	.9	-.8
20	.6	.7	-.2	.9	1.0	.2	1.6	1.8	.6	.7	.9	-1.1
21	1.0	1.0	.2	1.4	1.5	.2	1.6	1.8	-.1	.9	1.2	-.2
22	.8	.8	.2	1.7	1.8	.5	.8	1.0	-.9	1.4	1.6	.0
23	.5	.8	-.3	1.7	1.7	.3	.9	1.2	-.6	1.1	1.3	-.6
24	1.0	1.1	.1	1.2	1.2	-.8	.6	.9	-1.2	.3	.4	-1.2
25	1.0	1.1	-.2	1.1	1.3	-1.1	.3	.6	-.8	.4	.4	-.4
26	.9	.9	-.3	.7	.8	-.6	.4	.7	-.9	.8	1.1	-.2
27	1.0	1.0	-.5	.9	1.1	-.5	-.1	.2	-1.1	1.8	2.1	.7
28	1.1	1.2	-.3	1.0	1.1	-.4	-.3	.1	-1.0	1.2	.7	-.7
29	1.5	1.6	.1	.8	.9	-.5	-.1	.3	-.4	.0	.1	-1.2
30	1.6	1.7	.3	.7	1.0	.4	.2	.6	-.1	.3	.6	-1.0
31	1.0	1.0	-.3	---	---	---	.2	.5	-.5	1.0	1.2	-.2
MONTH	2.1	2.1	-.6	---	---	---	2.0	2.2	-1.5	1.8	2.1	-2.2

08077650 MOSES LAKE-GALVESTON BAY NEAR TEXAS CITY, TX--Continued

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

	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
DAY	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	1.2	1.3	.1	1.1	1.1	-.3	1.7	1.7	.8	2.2	2.3	.9
2	1.1	1.2	-.3	.8	1.0	-.5	1.4	1.4	.4	1.9	2.5	.8
3	.8	.8	-.7	1.0	1.1	-.2	1.1	1.4	-.2	1.4	1.5	.5
4	.4	.5	-1.2	.4	.3	-1.2	.3	-.2	-1.4	1.6	2.0	.3
5	-.1	.2	-1.1	.6	.9	-.3	.6	.7	-.6	1.7	1.9	.2
6	.3	.5	-.6	1.0	1.1	.2	.7	.8	.0	1.8	1.9	-.1
7	.5	.5	-.6	1.1	1.2	.4	.8	.9	-.3	1.6	1.7	.2
8	.1	.1	-.8	1.1	1.1	.5	.5	.3	-.4	1.5	1.6	.0
9	.0	.1	-.5	.8	.8	.3	1.3	1.4	-.6	1.4	1.6	.2
10	.4	.6	-.1	.8	.9	.2	1.7	1.8	.3	1.2	1.3	.0
11	.4	.5	-.1	.7	.6	-.6	1.5	1.4	.3	1.3	1.4	.2
12	.6	.7	-.3	.8	.9	-1.0	.9	.9	-.3	1.3	1.4	.5
13	1.0	1.1	-.4	1.1	1.2	-.1	.8	.8	-.5	1.2	1.3	.4
14	1.0	1.0	-.2	1.6	1.9	.2	.7	.8	-.4	1.1	1.2	.5
15	.8	1.1	-.7	1.8	1.8	.8	.9	1.0	.2	1.2	1.2	.4
16	1.0	1.1	-.2	1.5	1.5	.1	1.2	1.3	.4	1.2	1.3	.2
17	1.0	1.2	-.3	1.0	1.1	-.2	.7	.8	.2	1.4	1.5	.2
18	1.3	1.4	-.2	1.1	1.2	.0	.7	.8	.0	1.9	2.0	.3
19	1.0	1.1	-1.0	1.4	1.5	-.7	1.0	1.1	-.1	1.6	1.7	.4
20	.6	.6	-.5	.9	1.1	-.4	1.1	1.2	-.7	1.7	1.8	.1
21	.8	.8	-.2	1.8	1.9	1.0	.4	.5	-.5	1.2	1.3	-.2
22	.9	.9	.2	1.5	1.5	.8	1.2	1.2	-.7	1.0	1.1	-.2
23	1.0	1.0	.2	1.2	1.3	.4	1.8	2.1	.6	.9	1.0	-.3
24	1.0	1.0	.0	1.0	1.1	.1	1.4	1.4	.2	1.0	1.1	-.2
25	1.5	1.5	.7	.9	1.0	.0	1.0	1.1	-.5	1.3	1.4	.0
26	1.3	1.2	.5	.9	1.0	-.2	.9	1.0	-.1	1.6	1.7	.6
27	.6	.6	-.5	1.0	1.2	.0	.9	.9	-.1	1.4	1.4	.8
28	1.3	1.3	-.3	1.3	1.4	.0	.8	.9	.0	1.0	1.1	.0
29	1.2	1.3	.2	1.5	1.6	.5	.9	1.0	-.2	.5	.5	-.1
30	---	---	---	1.3	1.3	-.1	1.8	1.8	.9	.6	.7	-.1
31	---	---	---	1.6	1.7	.0	---	---	---	.9	1.0	.0
MONTH	1.5	1.5	-1.2	1.8	1.9	-1.2	1.8	2.1	-1.4	2.2	2.5	-.3

	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
DAY	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	1.3	1.4	-.1	1.0	1.0	-.6	.8	.9	-.5	.4	.5	-.3
2	1.3	1.4	-.2	1.1	1.2	-.7	.9	.9	-.2	.3	.4	-.6
3	1.1	1.2	-.3	1.3	1.4	-.3	.8	.9	-.1	.1	.2	-1.0
4	.9	1.1	-.7	1.5	1.6	-.2	.6	.6	.1	.2	.2	-.8
5	.8	.9	-.6	1.3	1.3	.1	.5	.6	-.1	.9	.9	-.3
6	1.0	1.1	-.9	.9	1.1	.0	.6	.6	-.2	1.2	1.3	.3
7	1.4	1.4	-.1	.7	.8	.0	.9	1.1	-.1	1.7	1.8	.5
8	1.3	1.8	.7	.6	.6	.1	1.2	1.2	.0	1.6	1.6	.5
9	1.5	1.6	.5	.7	.7	.0	1.1	1.2	-.3	1.9	1.9	.6
10	1.7	1.7	1.1	1.0	1.0	-.3	1.0	1.1	-.6	1.7	1.7	.2
11	1.7	1.7	.8	.7	.8	-.4	.7	.8	-.7	1.4	1.3	.3
12	1.4	1.4	.1	.8	.9	-.7	.7	.8	-.7	1.6	1.6	.4
13	1.1	1.2	.0	.6	.6	-.8	1.0	1.0	-.4	1.7	1.6	.6
14	1.3	1.4	-.1	.4	.5	-1.0	.2	1.4	-.1	1.3	1.3	.5
15	1.1	1.3	-.1	.3	.3	-1.0	1.0	1.1	.0	.9	1.4	.3
16	1.4	1.5	-.1	.5	.6	-.8	.5	.6	-.2	1.5	1.5	.7
17	2.0	2.0	.3	.7	.7	-.6	.6	.6	-.4	1.6	1.6	.6
18	1.5	1.7	.3	.6	.7	-.6	.6	.5	.0	1.6	1.5	.5
19	1.5	1.5	.1	.5	.5	-.6	.4	.5	-.2	2.0	2.0	.6
20	1.4	1.5	.2	.3	.4	-.6	.6	.6	-.3	1.9	1.9	.2
21	1.2	1.3	.0	.3	.4	-.5	.5	.6	-.2	1.8	1.7	.4
22	.8	.9	-.3	.5	.5	-.2	.8	.8	-.5	2.1	2.1	.2
23	.7	.8	-.2	.7	.8	-.4	1.2	1.2	-.1	1.7	1.6	.3
24	.8	.9	.0	.5	.6	-.1	1.2	1.3	-.3	1.7	1.7	-.1
25	.9	1.0	.3	.8	.9	-.2	1.2	1.2	-.4	.6	.5	-.9
26	.8	.8	.0	1.0	1.1	-.4	1.1	1.2	-.3	.8	.8	-.9
27	.9	.9	-.1	1.0	1.0	-.4	1.2	1.2	-.3	.9	.7	.0
28	.9	.9	-.3	1.0	1.0	-.5	1.0	1.1	-.2	.9	.9	.2
29	.9	1.1	-.6	1.0	1.1	-.5	.8	.9	-.2	1.4	1.4	.3
30	1.0	1.1	-.5	.9	1.0	-.6	.4	.5	-.2	1.5	1.5	.2
31	---	---	---	.9	1.2	-.7	.5	.7	-.4	---	---	---
MONTH	2.0	2.0	-.9	1.5	1.6	-1.0	1.2	1.4	-.7	2.1	2.1	-1.0

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 fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.25 ft on Sep 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.15 ft on May 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.52	---	1.77	1.30	1.79	1.60	2.36	2.86	1.97	1.66	1.67	---
2	2.69	1.06	2.57	1.64	1.70	1.55	2.09	2.51	1.95	1.88	1.64	---
3	2.65	1.53	2.74	1.70	1.32	1.56	1.86	3.15	1.94	2.02	1.48	---
4	2.50	1.67	2.59	1.08	.77	.97	.71	2.28	1.70	2.16	1.45	---
5	2.42	1.61	1.92	1.00	.66	1.34	1.29	2.50	1.55	1.89	1.13	---
6	---	1.59	1.12	1.83	.90	1.61	1.47	2.45	1.62	1.65	1.25	---
7	---	1.49	1.95	1.94	.99	1.87	1.51	2.26	2.07	1.43	1.46	---
8	---	1.57	2.24	2.06	.67	1.79	1.05	2.12	2.41	1.37	1.91	2.14
9	---	1.79	2.31	1.54	.75	1.40	2.03	2.16	2.33	1.45	1.70	2.45
10	---	1.94	1.47	1.37	1.18	1.47	2.30	1.89	2.46	1.54	1.56	2.25
11	---	2.01	2.15	1.00	.96	1.13	2.25	2.04	2.42	1.38	1.48	1.97
12	---	1.85	2.54	1.08	1.22	1.42	1.65	2.04	1.94	1.41	1.42	---
13	---	1.91	1.15	1.12	1.58	1.66	1.55	1.83	1.83	1.13	1.68	---
14	---	1.90	1.00	1.89	1.57	2.27	1.38	1.90	1.96	1.10	2.05	1.87
15	---	1.56	1.19	1.98	1.62	2.51	1.71	1.95	1.87	1.00	1.72	1.72
16	---	1.65	1.44	1.73	1.69	1.92	1.84	1.99	2.06	1.26	1.30	2.10
17	---	1.78	2.00	1.26	1.85	1.66	1.42	2.23	2.55	1.39	1.34	2.13
18	---	1.82	2.00	1.27	1.95	1.82	1.36	2.49	2.15	1.29	1.10	2.08
19	---	1.88	1.59	1.21	1.38	1.80	1.74	2.31	2.17	1.14	1.08	2.37
20	---	1.59	2.17	1.30	1.29	1.50	1.67	2.38	2.08	1.12	1.14	2.36
21	---	2.01	2.27	1.76	1.38	2.39	1.14	1.92	1.83	1.00	1.16	2.34
22	---	2.43	1.55	2.07	1.66	2.24	1.98	1.75	1.48	1.17	1.43	2.48
23	---	2.34	1.52	1.69	1.66	1.99	2.54	1.66	1.31	1.35	1.79	2.14
24	---	1.82	1.36	1.11	1.66	1.63	2.05	1.57	1.41	1.27	1.71	2.19
25	---	1.88	1.06	.99	2.13	1.51	1.67	1.98	1.58	1.60	1.73	1.18
26	1.54	1.38	1.14	1.63	2.14	1.47	1.70	2.30	1.49	1.62	1.79	1.43
27	1.53	1.51	.54	2.22	1.15	1.69	1.58	2.16	1.60	1.74	1.93	1.42
28	1.71	1.62	.38	1.62	1.91	1.88	1.45	1.64	1.62	1.64	1.75	1.51
29	2.18	1.38	.72	.64	1.86	2.10	1.52	1.30	1.49	1.75	1.66	1.92
30	---	1.51	.84	.99	---	1.80	2.49	1.40	1.75	1.49	1.24	1.87
31	---	---	.90	1.79	---	2.21	---	1.74	---	1.77	---	---
MAX	---	---	2.74	2.22	2.14	2.51	2.54	3.15	2.55	2.16	---	---

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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 mi^2.

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 Sep 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.16 ft on May 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.54	---	1.79	1.27	1.79	1.70	2.40	2.89	1.99	1.68	1.69	---
2	2.68	1.05	2.59	1.61	1.67	1.67	2.11	2.68	1.97	1.87	1.66	---
3	2.62	1.53	2.73	1.67	---	1.67	1.96	3.16	1.93	2.05	1.49	---
4	2.47	1.67	2.52	1.07	---	1.08	.71	2.28	1.70	2.17	1.45	---
5	2.45	1.60	1.93	.99	---	1.43	1.29	2.54	1.55	1.91	1.15	---
6	2.43	1.58	1.12	1.81	---	1.71	1.47	2.47	1.63	1.67	1.25	---
7	2.53	1.48	1.95	1.97	---	1.98	1.51	2.28	2.08	1.43	1.46	---
8	2.62	1.56	2.25	2.02	.78	1.87	1.06	2.13	2.45	1.39	1.95	---
9	2.42	1.78	2.28	1.51	.87	1.48	2.03	2.15	2.35	1.46	1.71	---
10	1.86	1.93	1.46	1.33	1.28	1.55	2.31	1.91	2.47	1.55	1.57	---
11	1.82	2.01	2.20	.97	1.07	1.21	2.15	2.04	2.43	1.39	1.48	---
12	2.13	1.86	2.52	1.05	1.33	1.52	1.66	2.03	1.96	1.42	1.43	2.20
13	2.23	1.92	1.13	1.09	1.67	1.75	1.56	1.87	1.84	1.13	1.71	2.34
14	2.04	1.90	.91	1.89	1.66	2.50	1.38	1.98	1.96	1.12	2.09	1.80
15	2.11	1.56	1.11	1.96	1.73	2.66	1.71	1.98	1.87	1.02	1.75	1.65
16	2.21	1.64	1.35	1.69	1.78	2.01	1.83	2.00	2.05	1.27	1.31	2.03
17	2.12	1.80	1.86	1.24	1.94	1.78	1.42	2.19	2.56	1.40	1.35	2.04
18	1.70	1.81	1.99	1.24	2.09	2.01	1.36	2.48	2.18	1.30	1.10	2.01
19	1.49	1.85	1.57	1.18	1.48	1.92	1.73	2.32	2.17	1.15	1.09	2.30
20	1.44	1.56	2.25	1.26	1.40	1.59	1.69	2.47	2.08	1.13	1.14	2.31
21	1.64	2.00	2.33	1.74	1.51	2.49	1.15	1.98	1.82	1.02	1.17	2.26
22	1.52	2.42	1.55	2.04	1.79	2.35	2.01	1.78	1.48	1.19	1.44	2.50
23	1.32	2.31	1.52	1.65	1.79	2.11	2.49	1.67	1.32	1.35	1.82	2.09
24	1.74	1.82	1.35	1.09	1.77	1.72	1.91	1.58	1.42	1.28	1.72	2.14
25	1.58	1.92	1.05	.96	2.22	1.60	1.68	1.98	1.59	1.61	1.73	1.11
26	1.55	1.38	1.15	1.61	2.22	1.55	1.71	2.31	1.50	1.64	1.81	1.37
27	1.52	1.51	.53	2.27	1.26	1.73	1.59	2.12	1.64	1.75	1.96	1.37
28	1.70	1.61	.35	1.61	2.02	1.89	1.46	1.65	1.62	1.64	1.77	1.45
29	2.18	1.36	.70	.61	1.92	2.14	1.51	1.31	1.50	1.77	1.68	1.86
30	---	1.52	.82	.95	---	1.78	2.48	1.41	1.76	1.52	1.25	1.81
31	---	---	.88	1.79	---	2.24	---	1.76	---	1.80	---	---
MAX	---	---	2.73	2.27	---	2.66	2.49	3.16	2.56	2.17	---	---

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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°51′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 Highlands 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 Jul 26, 1989; maximum elevation (seaward) 6.5 ft Sep 11, 1998; minimum (seaward), -2.0 ft Apr 11, 1988.

Supplementary gage: Maximum elevation (landward) 11.0 ft Jun 7, 1992; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (landward) -1.6 ft May 3; maximum elevation (seaward) 2.2 ft May 1; minimum (seaward), -1.2 ft Jan 4.

Supplementary gage: Maximum elevation (landward) -2.1 ft May 3; minimum not determined.

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

	OCTOBER				NOVEMBER				DECEMBER			
	LAND-WARD	SEA-WARD	SEA-WARD	SUPPLE-MENTARY	LAND-WARD	SEA-WARD	SEA-WARD	SUPPLE-MENTARY	LAND-WARD	SEA-WARD	SEA-WARD	SUPPLE-MENTARY
DAY	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	1.9	.9	---	---	.7	-.3	---	---	1.2	.8	---
2	---	1.9	1.0	---	---	.3	-.8	---	---	1.9	1.1	---
3	---	1.7	.8	---	---	.8	-.7	---	---	2.1	1.4	---
4	---	1.6	.8	---	---	1.0	.6	---	---	1.9	1.1	---
5	---	1.5	.8	---	---	.9	.3	---	---	1.4	-.3	---
6	---	1.7	1.0	---	---	.9	.4	---	---	.5	-.7	---
7	---	1.8	1.2	---	---	.9	.1	---	---	1.3	.2	---
8	---	2.0	1.4	---	---	1.0	.1	---	---	1.6	.7	---
9	---	1.8	1.2	---	---	1.1	.2	---	---	1.7	.4	---
10	---	1.4	.7	---	---	1.3	.3	---	---	.9	-.6	---
11	---	1.2	.4	---	---	1.4	.4	---	---	1.6	.5	---
12	---	1.5	.7	---	---	1.2	.1	---	---	1.9	.5	---
13	---	1.6	.6	---	---	1.3	.3	---	---	.6	-1.0	---
14	---	1.4	.4	---	---	1.3	.2	---	---	.2	-.6	---
15	---	1.4	.5	---	---	.9	-.2	---	---	.3	-1.1	---
16	---	1.5	.6	---	---	1.0	.3	---	---	.7	-.7	---
17	---	1.4	.2	---	---	1.2	.5	---	---	1.2	.4	---
18	---	.9	.2	---	---	1.2	.8	---	---	1.4	.3	---
19	---	.8	-.2	---	---	1.3	.5	---	---	1.0	.0	---
20	---	.7	-.2	---	---	.9	.3	---	---	1.5	.5	---
21	---	1.0	.2	---	---	1.4	.4	---	---	1.6	.2	---
22	---	.8	.2	---	---	1.8	.9	---	---	.8	-.3	---
23	---	.6	-.1	---	---	1.7	.6	---	---	.9	-.2	---
24	---	1.0	.2	---	---	1.1	-.2	---	---	.8	-.7	---
25	---	.9	.1	---	---	1.2	-.3	---	---	.4	-.5	---
26	---	.8	-.1	---	---	.8	-.2	---	---	.5	-.6	---
27	---	.8	-.1	---	---	.9	-.1	---	---	-.1	-1.0	---
28	---	1.0	.0	---	---	1.0	.0	---	---	-.4	-1.0	---
29	---	1.5	.5	---	---	.8	-.2	---	---	.0	-.6	---
30	---	1.6	.4	---	---	.9	.2	---	---	.2	-.3	---
31	---	1.0	-.2	---	---	---	---	---	---	.3	-.5	---
MONTH	---	2.0	-.2	---	---	1.8	-.8	---	---	2.1	-1.1	---

08077740 LAMARQUE LEVEE PUMP STATION NEAR LAMARQUE, TX--Continued

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

	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
DAY	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	.7	-.5	---	---	1.3	.3	---	---	1.0	.3	---
2	---	1.0	.0	---	---	1.1	.1	---	---	1.0	.2	---
3	---	1.1	.1	---	---	.9	-.2	---	---	1.0	.2	---
4	---	.5	-1.2	---	---	.3	-.8	---	---	.5	-.3	---
5	---	.4	-1.0	---	---	.1	-.6	---	---	.8	.2	---
6	---	1.2	.3	---	---	.4	-.2	---	---	1.0	.6	---
7	---	1.3	.4	---	---	.5	-.2	---	---	1.1	.7	---
8	---	1.5	.4	---	---	.1	-.5	---	---	1.1	.7	---
9	---	.9	-.2	---	---	.2	-.3	---	---	.8	.6	---
10	---	.8	-.3	---	---	.6	.0	---	---	.9	.3	---
11	---	.4	-.3	---	---	.5	.0	---	---	.7	-.4	---
12	---	.5	-.1	---	---	.6	-.3	---	---	.8	-.7	---
13	---	.5	-.2	---	---	.9	-.1	---	---	1.1	.0	---
14	---	1.3	-.1	---	---	.9	.0	---	---	1.7	.3	---
15	---	1.4	.9	---	---	1.0	-.2	---	---	1.9	1.1	---
16	---	1.1	.2	---	---	1.1	.0	---	---	1.4	.2	---
17	---	.6	-.2	---	---	1.2	.1	---	---	1.0	.0	---
18	---	.6	-.3	---	---	1.3	.2	---	---	1.1	.3	---
19	---	.6	-.4	---	---	.7	-.4	---	---	1.2	-.3	---
20	---	.6	-.7	---	---	.7	-.1	---	---	.9	-.3	---
21	---	1.2	.1	---	---	.8	.1	---	---	1.8	.9	---
22	---	1.5	.4	---	---	1.0	.6	---	---	1.6	1.1	---
23	---	1.1	-.3	---	---	1.0	.6	---	---	1.4	.7	---
24	---	.2	-.7	---	---	1.1	.1	---	---	1.0	.3	---
25	---	.4	-.3	---	---	1.5	.8	---	---	.9	.1	---
26	---	1.0	-.1	---	---	1.5	.6	---	---	.9	.0	---
27	---	1.7	1.0	---	---	.7	-.2	---	---	1.1	.0	---
28	---	1.1	-.4	---	---	1.3	-.1	---	---	1.1	.2	---
29	---	.1	-.9	---	---	1.3	.5	---	---	1.5	.5	---
30	---	.5	-.6	---	---	---	---	---	---	1.2	.2	---
31	---	1.2	.1	---	---	---	---	---	---	1.6	.4	---
MONTH	---	1.7	-1.2	---	---	1.5	-.8	---	---	1.9	-.7	---

	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
DAY	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	1.7	1.1	---	---	2.2	1.2	---	---	1.4	.4	---
2	---	1.5	.6	---	---	1.7	.9	---	---	1.4	.4	---
3	---	1.0	.1	---	-1.6	1.6	.6	---	---	1.4	.2	---
4	---	.1	-.8	---	---	1.6	.6	---	---	1.2	.1	---
5	---	.7	-.6	---	---	1.8	.7	---	---	.9	-.1	---
6	---	.9	.2	---	---	1.8	.5	---	---	1.0	-.3	---
7	---	.9	.0	---	---	1.6	.6	---	---	1.5	.2	---
8	---	.6	-.4	---	---	1.5	.5	---	---	1.7	.8	---
9	---	1.4	-.3	---	---	1.5	.5	---	---	1.7	.8	---
10	---	1.7	.6	---	---	1.3	.3	---	---	1.8	1.3	---
11	---	1.6	.5	---	---	1.5	.6	---	---	1.8	.9	---
12	---	.9	-.1	---	---	1.5	.9	---	---	1.3	.4	---
13	---	.8	-.2	---	---	1.2	.6	---	---	1.2	.4	---
14	---	.7	-.1	---	---	1.3	.6	---	---	1.3	.4	---
15	---	1.1	.4	---	---	1.4	.7	---	---	1.2	.4	---
16	---	1.2	.5	---	---	1.4	.7	---	---	1.4	.4	---
17	---	.8	.4	---	---	1.7	.7	---	---	1.9	.7	---
18	---	.7	.2	---	---	2.0	.9	---	---	1.5	.7	---
19	---	1.1	.1	---	---	1.7	1.0	---	---	1.5	.5	---
20	---	1.0	.3	---	-1.9	1.7	.7	---	---	1.4	.5	---
21	---	.4	-.2	---	---	1.3	.3	---	---	1.2	.5	---
22	---	1.4	-.3	---	---	1.1	.1	---	---	.8	.1	---
23	---	1.9	.7	---	---	1.1	.1	---	---	.6	.0	---
24	---	1.5	.4	---	---	1.0	.3	---	---	.7	.3	---
25	---	1.1	-.1	---	---	1.4	.3	---	---	.9	.3	---
26	---	1.1	.1	---	---	1.7	.9	---	---	.8	.2	---
27	---	.9	.1	---	---	1.6	1.1	---	---	.8	.1	---
28	---	.8	.1	---	---	1.1	.4	---	---	.9	.1	---
29	---	.9	.0	---	---	.7	.1	---	---	.8	.0	---
30	---	1.8	.9	---	---	.8	.1	---	---	1.1	-.2	---
31	---	---	---	---	---	1.1	.1	---	---	---	---	---
MONTH	---	1.9	-.8	---	---	2.2	.1	---	---	1.9	-.3	---

08077740 LAMARQUE LEVEE PUMP STATION NEAR LAMARQUE, TX--Continued

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

	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
DAY	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	1.0	-.1	---	---	1.0	-.2	---	---	.4	.0	---
2	---	1.2	-.1	---	---	.9	.0	---	---	.3	-.2	---
3	---	1.3	.2	---	---	.8	.2	---	---	.1	-.6	---
4	---	1.5	.2	---	---	.7	.2	---	---	.0	-.4	---
5	---	1.2	.4	---	---	.5	.1	---	---	.8	-.1	---
6	---	1.0	.3	---	---	.6	.0	---	---	1.2	.2	---
7	---	.8	.1	---	---	.8	.2	---	---	1.7	.7	---
8	---	.7	.2	---	---	1.2	.3	---	---	1.5	.8	---
9	---	.8	.2	---	---	1.0	.2	---	---	1.8	.8	---
10	---	1.0	.1	---	---	.9	-.1	---	---	1.6	.6	---
11	---	.8	-.1	---	---	.8	-.1	---	---	1.3	.5	---
12	---	.7	-.1	---	---	.7	-.2	---	---	1.6	.5	---
13	---	.5	-.2	---	---	1.0	-.2	---	---	1.6	.9	---
14	---	.4	-.4	---	---	1.4	.2	---	---	1.2	.7	---
15	---	.4	-.5	---	---	1.1	.5	---	---	1.0	.4	---
16	---	.6	-.6	---	---	.6	.0	---	---	1.5	.8	---
17	---	.7	-.3	---	---	.6	-.3	---	---	1.5	.8	---
18	---	.7	-.3	---	---	.5	.0	---	---	1.5	.8	---
19	---	.5	-.2	---	---	.5	-.1	---	---	1.8	.9	---
20	---	.5	-.4	---	---	.5	.1	---	---	1.8	.5	---
21	---	.3	-.4	---	---	.5	.0	---	---	1.7	.7	---
22	---	.5	-.2	---	---	.8	.0	---	---	1.9	.7	---
23	---	.6	.0	---	---	1.0	.2	---	---	1.5	.6	---
24	---	.5	.1	---	---	1.1	.1	---	---	1.6	.3	---
25	---	.9	.2	---	---	1.1	.1	---	---	.3	-.6	---
26	---	1.0	.0	---	---	1.1	.0	---	---	.7	-.7	---
27	---	1.0	.0	---	---	1.2	.1	---	---	.7	.1	---
28	---	1.0	.1	---	---	1.1	.2	---	---	.9	.2	---
29	---	1.1	-.1	---	---	1.0	.1	---	---	1.3	.5	---
30	---	.9	-.1	---	---	.5	.0	---	---	1.3	.5	---
31	---	1.0	-.2	---	---	.6	-.3	---	---	---	---	---
MONTH	---	1.5	-.6	---	---	1.4	-.3	---	---	1.9	-.7	---

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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 mi^2. During extreme flooding, overflow from about 11 mi^2 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 (daily mean discharge).
Water-quality records.--Chemical data: May 1971 to Sep 1985. Biochemical data: May 1971 to Sep 1985. Pesticide data: May 1971 to Sep 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 Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jul 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s:

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

No peak greater than base discharge.

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

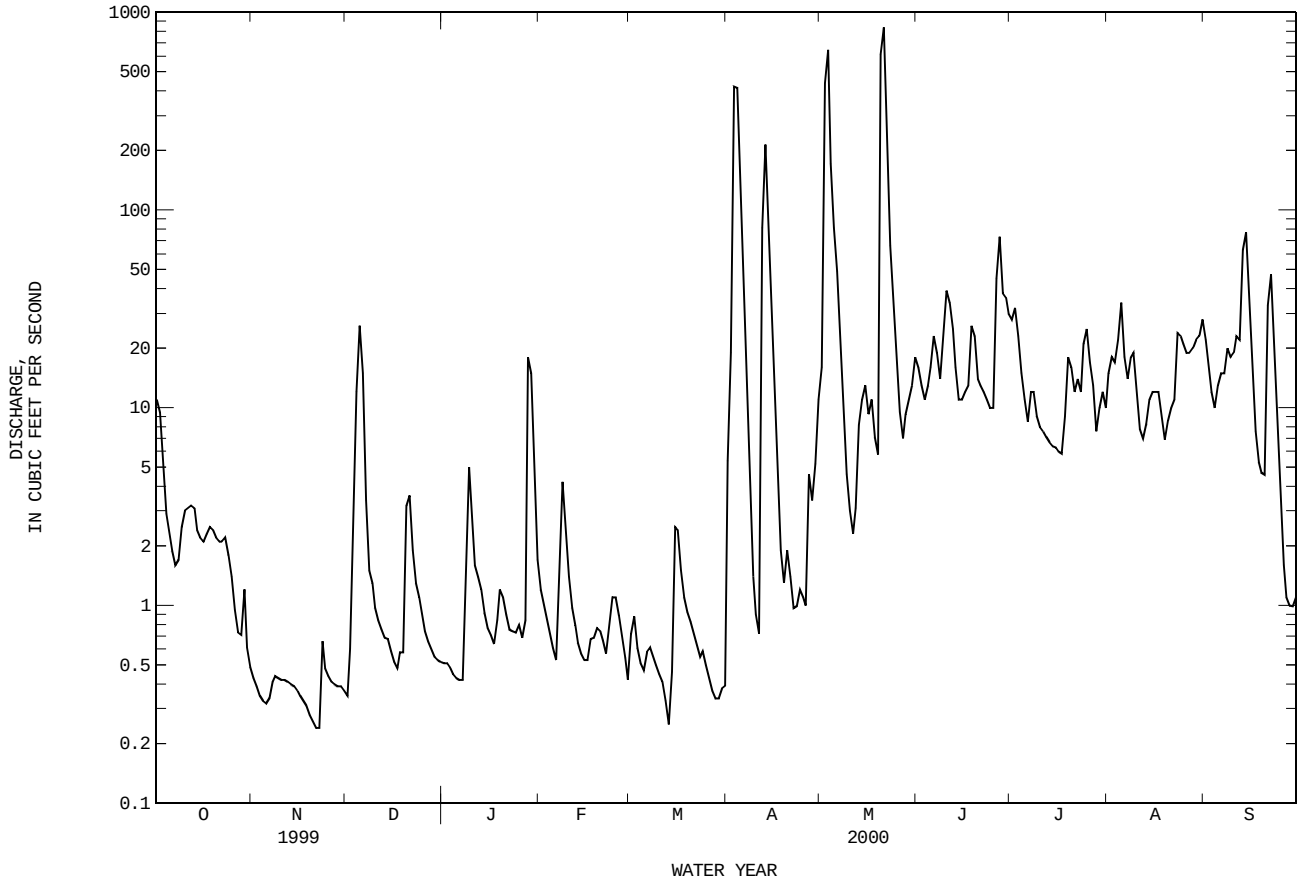
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.43	.35	.51	1.2	.72	5.4	16	16	28	15	22
2	9.5	.39	.60	.51	1.0	.88	19	439	13	32	18	17
3	5.1	.35	2.6	.49	.83	.61	423	643	11	23	17	12
4	2.9	.33	12	.45	.70	.51	417	171	13	15	22	10
5	2.3	.32	26	.43	.61	.47	67	81	16	11	34	13
6	1.9	.34	15	.42	.53	.58	18	49	23	8.5	18	15
7	1.6	.41	3.4	.42	1.8	.61	7.2	23	19	12	14	15
8	1.7	.44	1.5	1.5	4.2	.56	3.0	9.1	14	12	18	20
9	2.5	.43	1.3	5.0	2.5	.50	1.4	4.6	22	9.1	19	18
10	3.0	.42	.98	2.7	1.4	.45	.90	3.0	39	8.0	12	19
11	3.1	.42	.84	1.6	.98	.41	.72	2.3	34	7.6	7.8	23
12	3.2	.41	.76	1.4	.79	.33	81	3.1	25	7.1	7.0	22
13	3.1	.40	.69	1.2	.65	.25	214	8.2	16	6.7	8.3	63
14	2.4	.39	.68	.92	.57	.46	60	11	11	6.4	11	77
15	2.2	.37	.59	.77	.53	2.5	23	13	11	6.3	12	36
16	2.1	.35	.52	.71	.53	2.4	8.4	9.3	12	6.0	12	15
17	2.3	.33	.48	.64	.68	1.5	3.5	11	13	5.9	12	7.6
18	2.5	.31	.58	.84	.69	1.1	1.9	7.1	26	9.0	9.2	5.3
19	2.4	.28	.58	1.2	.77	.93	1.3	5.8	23	18	6.9	4.7
20	2.2	.26	3.2	1.1	.74	.83	1.9	614	14	16	8.6	4.6
21	2.1	.24	3.6	.90	.67	.72	1.4	836	13	12	10	33
22	2.1	.24	1.9	.76	.57	.63	.97	202	12	14	11	47
23	2.2	.66	1.3	.74	.78	.55	.99	66	11	12	24	17
24	1.8	.48	1.1	.73	1.1	.59	1.2	34	10	21	23	6.9
25	1.4	.44	.88	.80	1.1	.50	1.1	17	10	25	21	3.3
26	.95	.41	.74	.69	.89	.43	1.0	9.5	45	17	19	1.6
27	.73	.40	.66	.84	.70	.37	4.6	7.0	73	13	19	1.1
28	.71	.39	.60	18	.54	.34	3.4	9.3	38	7.6	20	1.0
29	1.2	.39	.55	15	.42	.34	5.2	11	36	10	22	.99
30	.61	.37	.53	4.2	---	.38	11	13	30	12	23	1.1
31	.49	---	.52	1.7	---	.39	---	18	---	10	28	---
TOTAL	81.29	11.40	85.03	67.17	28.47	21.84	1388.48	3346.3	649	401.2	501.8	532.19
MEAN	2.62	.38	2.74	2.17	.98	.70	46.3	108	21.6	12.9	16.2	17.7
MAX	11	.66	26	18	4.2	2.5	423	836	73	32	34	77
MIN	.49	.24	.35	.42	.42	.25	.72	2.3	10	5.9	6.9	.99
AC-FT	161	23	169	133	56	43	2750	6640	1290	796	995	1060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	85.0	87.9	102	134	108	77.4	97.3	129	209	152	107	133
MAX	522	378	378	464	508	476	572	528	876	1659	642	843
(WY)	1995	1975	1977	1992	1992	1997	1997	1992	1968	1979	1989	1979
MIN	.52	.38	.77	2.17	.98	.70	8.57	16.8	18.2	12.9	12.3	4.47
(WY)	1978	2000	1990	2000	2000	2000	1987	1996	1990	2000	1999	1999

08078000 CHOCOLATE BAYOU NEAR ALVIN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	9542.72		7114.17			
ANNUAL MEAN	26.1		19.4		117	
HIGHEST ANNUAL MEAN					340	1979
LOWEST ANNUAL MEAN					19.4	2000
HIGHEST DAILY MEAN	672	Jan 3	836	May 21	15700	Jul 26 1979
LOWEST DAILY MEAN	.24	Nov 21	.24	Nov 21	.03	Dec 17 1975
ANNUAL SEVEN-DAY MINIMUM	.29	Nov 16	.29	Nov 16	.08	Oct 15 1977
INSTANTANEOUS PEAK FLOW			1090	May 20	21500	Jul 26 1979
INSTANTANEOUS PEAK STAGE			23.35	May 20	33.88	Jul 26 1979
ANNUAL RUNOFF (AC-FT)	18930		14110		85100	
10 PERCENT EXCEEDS	54		24		205	
50 PERCENT EXCEEDS	7.1		3.0		30	
90 PERCENT EXCEEDS	.57		.43		3.5	



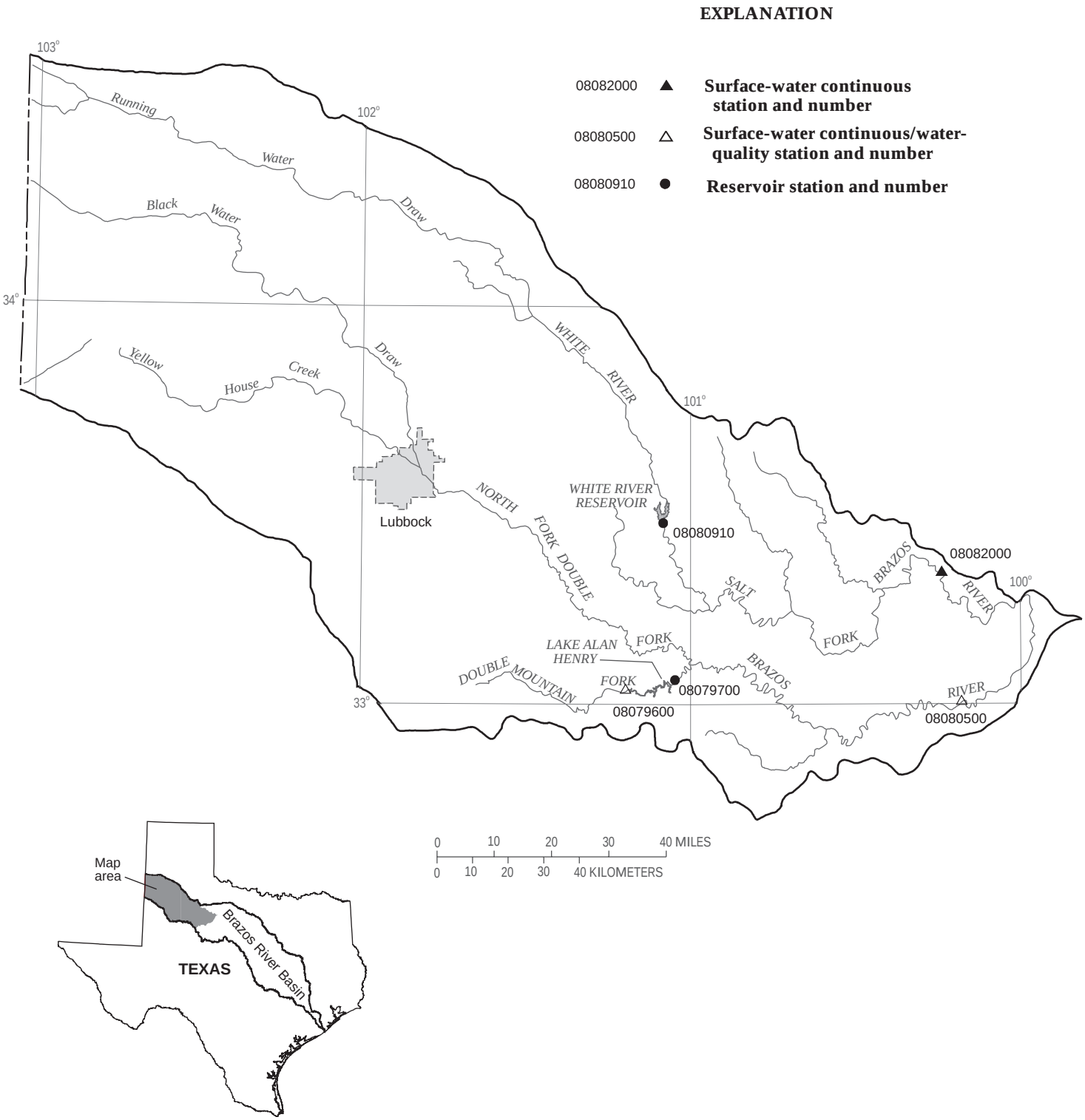


Figure 5.--Map showing location of gaging stations in the first section of the Brazos River Basin

08079600 Double Mountain Fork Brazos River at Justiceburg, TX 216
08079700 Lake Alan Henry Reservoir near Justiceburg, TX 222
08080500 Double Mountain Fork Brazos River near Aspermont, TX 224
08080910 White River Reservoir near Spur, TX 228
08082000 Salt Fork Brazos River near Aspermont, TX 230

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX

LOCATION.--Lat 33°02′18", long 101°11′50", Garza County, Hydrologic Unit 12050004, on right bank at downstream side of bridge on U.S. Highway 84 at Justiceburg, 250 ft downstream from Panhandle and Santa Fe Railroad, and at mile 143.4 measured from confluence with Salt Fork Brazos River at mile 923.2 on the Brazos River.

DRAINAGE AREA.--1,466 mi^2, of which 1,222 mi^2 probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Nov 1961 to current year. Prior to Oct 1963, published as "Sand Creek" or "South Fork Double Mountain Fork Brazos River at Justiceburg".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,222.47 ft above sea level. 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1895, 25.8 ft in 1914 and 22.2 ft in Sep l955, from information by local resident. Flood in Jul 1961 reached a stage of 18.2 ft, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 3	0515	4,250	a9.61	Jun 29	1200	8,330	p11.07

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.51	.00	.29	8.3	.00	.00
2	.00	.00	.00	.00	.00	.00	1.6	.00	485	18	.00	.00
3	.00	.00	.00	.00	.00	.00	.50	.00	768	.57	.00	.00
4	.00	.00	.00	.00	.00	.00	e.40	.00	31	.21	.00	.00
5	.00	.00	.00	.00	.00	.00	e.30	.00	4.9	.06	.00	.00
6	.00	.00	.00	.00	.00	.00	e.20	.00	1.1	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.10	.00	.33	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	e.05	.00	.07	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	e.05	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	e.02	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	e.25	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	e.10	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	e.05	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	e.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	79	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	9.8	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	13	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	5.3	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00
22	.00	.00	.00	.00	.00	197	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	837	.00	.00	31	35	.00	.00
24	.00	.00	.00	.00	.00	16	.00	.00	119	8.7	.00	.00
25	.00	.00	.00	.00	.00	1.4	.00	4.5	5.5	.40	.00	.00
26	.00	.00	.00	.00	.00	.54	.00	86	1.0	.00	.00	.00
27	.00	.00	.00	.00	.00	.41	.00	.37	1.1	.00	.00	.00
28	.00	.00	.00	.00	.00	.30	.00	.01	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.20	.00	.00	2090	.00	.00	.00
30	.00	.00	.00	.00	---	e.05	.00	.00	120	.00	.00	.00
31	.00	---	.00	.00	---	.30	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	1053.20	4.94	90.88	3765.48	71.24	0.00	0.00
MEAN	.000	.000	.000	.000	.000	34.0	.16	2.93	126	2.30	.000	.000
MAX	.00	.00	.00	.00	.00	837	1.6	86	2090	35	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	2090	9.8	180	7470	141	.00	.00
CFSM	.00	.00	.00	.00	.00	.14	.00	.01	.51	.01	.00	.00
IN.	.00	.00	.00	.00	.00	.16	.00	.01	.57	.01	.00	.00

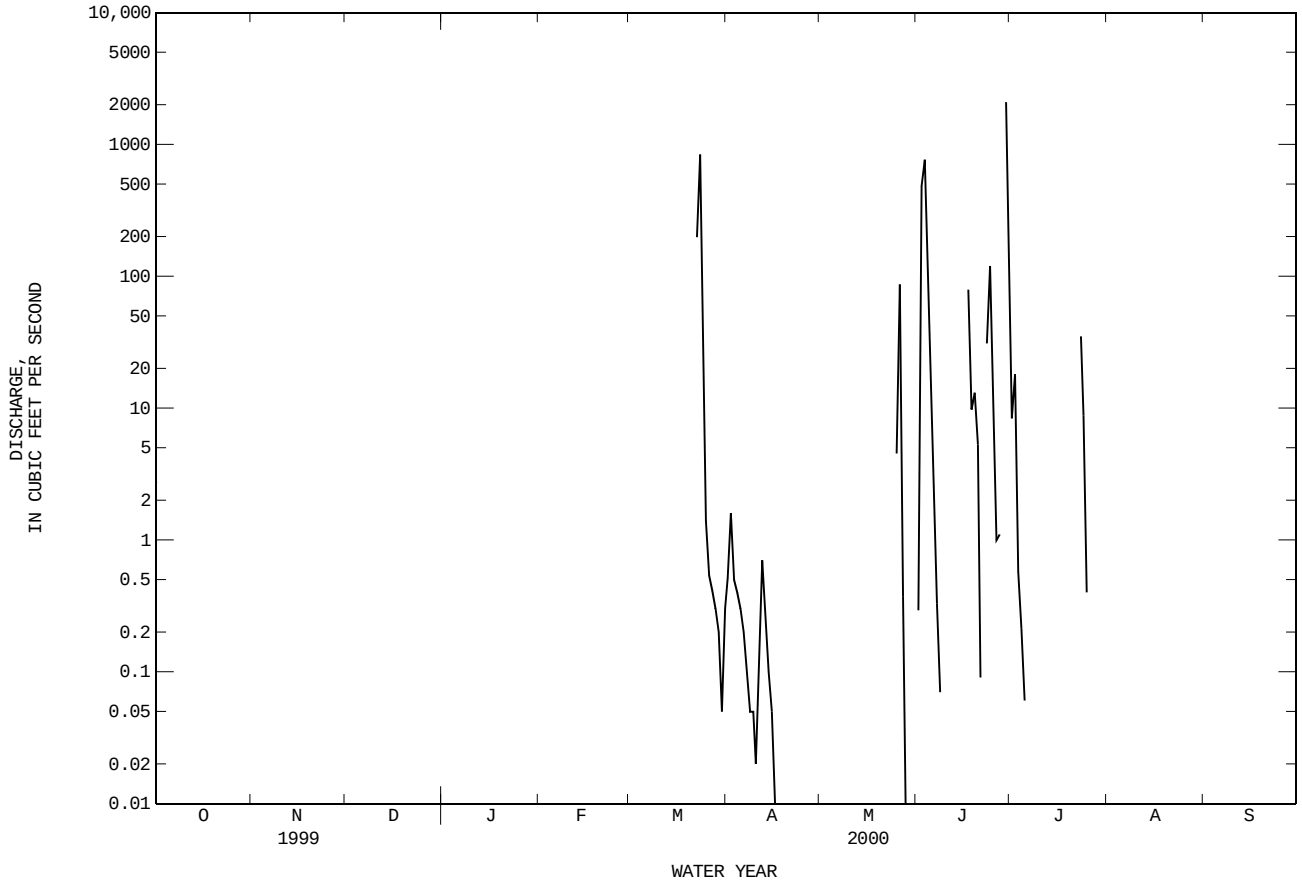
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	28.5	5.57	4.49	2.08	4.77	7.69	13.5	52.5	79.9	28.1	33.7	50.4
MAX	276	38.7	87.7	30.9	56.1	81.6	140	357	510	249	408	321
(WY)	1986	1969	1992	1992	1992	1970	1997	1969	1967	1979	1972	1962
MIN	.000	.000	.000	.000	.000	.000	.000	.014	.052	.000	.000	.000
(WY)	1965	1978	1974	1974	1965	1971	1964	1989	1994	1964	1987	1968

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	15297.99		4985.74			
ANNUAL MEAN	41.9		13.6		25.5	
HIGHEST ANNUAL MEAN					69.8	1967
LOWEST ANNUAL MEAN					1.65	1983
HIGHEST DAILY MEAN	10000	Jun 12	2090	Jun 29	10000	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
INSTANTANEOUS PEAK FLOW			8330	Jun 29	49600	May 6 1969
INSTANTANEOUS PEAK STAGE			p11.07	Jun 29	19.80	May 6 1969
ANNUAL RUNOFF (AC-FT)	30340		9890		18480	
ANNUAL RUNOFF (CFSM)	.17		.056		.10	
ANNUAL RUNOFF (INCHES)	2.33		.76		1.42	
10 PERCENT EXCEEDS	6.3		.34		9.3	
50 PERCENT EXCEEDS	.00		.00		.02	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From floodmark.
p Observed.



08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Dec 1964 to Sep 1965, Oct 1975 to current year.
SEDIMENT DATA: Jun 1977 to Jun 1982.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1975 to current year (local observer).
WATER TEMPERATURE: Oct 1975 to current year (local observer).

REMARKS.--Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 7%, chloride is 53%, sulfate is 41% and for hardness is 41%. 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, 31,400 microsiemens, Dec 6, 1994; minimum daily, 370 microsiemens, Oct 20, 1983.
WATER TEMPERATURE: Maximum daily, 37.0°C, Jun 12, 1998; minimum daily, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily estimated, 20,000 microsiemens, Apr 16; minimum daily, 440 microsiemens, Jun 29.
WATER TEMPERATURE: Maximum daily, 34.5°C, Jun 27; minimum daily, 11.0°C, Mar 24.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAR									
23...	1745	215	610	16.3	30	--	8.4	2.3	114
APR									
07...	1025	.09	15200	14.9	1200	1000	300	115	2640
JUN									
05...	1625	4.1	3160	32.6	210	80	56	16	410
29...	1320	5850	370	22.5	12	--	3.3	.84	69
30...	1030	102	705	24.6	67	--	19	4.7	108
JUL									
24...	1310	5.9	1630	33.0	95	--	25	8.1	291

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
MAR								
23...	9	2.5	86	63	76	1.0	7.0	325
APR								
07...	33	11	180	570	4900	1.0	10	8640
JUN								
05...	12	5.1	130	130	750	.92	9.8	1460
29...	9	1.7	85	29	39	.83	6.9	201
30...	6	4.5	100	51	110	.71	11	370
JUL								
24...	13	6.4	110	180	340	1.6	9.3	923

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

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

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	0	--	--	--	--	--	--	--	--
NOV.	1999	0	--	--	--	--	--	--	--	--
DEC.	1999	0	--	--	--	--	--	--	--	--
JAN.	2000	0	--	--	--	--	--	--	--	--
FEB.	2000	0	--	--	--	--	--	--	--	--
MAR.	2000	1053.2	671	338	961	180	509	24	67.4	38
APR.	2000	4.94	9540	5380	71.7	2900	38.6	370	4.9	690
MAY	2000	90.88	1610	820	201	430	107	57	14.1	94
JUNE	2000	3765.48	563	284	2880	150	1520	20	202	32
JULY	2000	71.24	1930	992	191	530	101	69	13.3	110
AUG.	2000	0	--	--	--	--	--	--	--	--
SEPT	2000	0	--	--	--	--	--	--	--	--
TOTAL		4985.74	**	**	4310	**	2280	**	302	**
WTD.AVG.		14	634	320	**	170	**	22	**	36

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e10000	---	e3000	3000	---	---
2	---	---	---	---	---	---	e5000	---	640	1500	---	---
3	---	---	---	---	---	---	e7500	---	500	2600	---	---
4	---	---	---	---	---	---	e10000	---	1120	4430	---	---
5	---	---	---	---	---	---	e12000	---	2920	5180	---	---
6	---	---	---	---	---	---	e14000	---	5780	---	---	---
7	---	---	---	---	---	---	15200	---	9360	---	---	---
8	---	---	---	---	---	---	e16000	---	11200	---	---	---
9	---	---	---	---	---	---	e16000	---	---	---	---	---
10	---	---	---	---	---	---	e17000	---	---	---	---	---
11	---	---	---	---	---	---	e18000	---	---	---	---	---
12	---	---	---	---	---	---	e12000	---	---	---	---	---
13	---	---	---	---	---	---	e14000	---	---	---	---	---
14	---	---	---	---	---	---	e16000	---	---	---	---	---
15	---	---	---	---	---	---	e18000	---	---	---	---	---
16	---	---	---	---	---	---	e20000	---	---	---	---	---
17	---	---	---	---	---	---	---	---	692	---	---	---
18	---	---	---	---	---	---	---	---	1980	---	---	---
19	---	---	---	---	---	---	---	---	3430	---	---	---
20	---	---	---	---	---	---	---	---	2530	---	---	---
21	---	---	---	---	---	---	---	---	8920	---	---	---
22	---	---	---	---	---	e1000	---	---	---	---	---	---
23	---	---	---	---	---	560	---	---	e3000	1250	---	---
24	---	---	---	---	---	1180	---	---	815	4180	---	---
25	---	---	---	---	---	3600	---	e2500	2930	7420	---	---
26	---	---	---	---	---	6600	---	1500	7860	---	---	---
27	---	---	---	---	---	9000	---	15000	9880	---	---	---
28	---	---	---	---	---	10600	---	e18000	---	---	---	---
29	---	---	---	---	---	e12000	---	---	440	---	---	---
30	---	---	---	---	---	e15000	---	---	750	---	---	---
31	---	---	---	---	---	e12000	---	---	---	---	---	---

e Estimated

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	33.0	---	---
2	---	---	---	---	---	---	---	---	23.0	29.0	---	---
3	---	---	---	---	---	---	---	---	28.0	30.0	---	---
4	---	---	---	---	---	---	---	---	31.0	29.0	---	---
5	---	---	---	---	---	---	---	---	32.0	22.0	---	---
6	---	---	---	---	---	---	---	---	31.0	---	---	---
7	---	---	---	---	---	---	15.0	---	31.0	---	---	---
8	---	---	---	---	---	---	---	---	31.0	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	21.0	---	---	---
18	---	---	---	---	---	---	---	---	22.5	---	---	---
19	---	---	---	---	---	---	---	---	29.5	---	---	---
20	---	---	---	---	---	---	---	---	33.0	---	---	---
21	---	---	---	---	---	---	---	---	33.0	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	17.0	---	---	---	31.0	---	---
24	---	---	---	---	---	11.0	---	---	34.0	32.0	---	---
25	---	---	---	---	---	22.0	---	---	34.0	32.0	---	---
26	---	---	---	---	---	23.0	---	31.0	27.0	---	---	---
27	---	---	---	---	---	25.0	---	28.5	34.5	---	---	---
28	---	---	---	---	---	20.0	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	27.0	---	---	---
30	---	---	---	---	---	---	---	---	28.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

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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 dam in intake structure of Alan Henry Dam 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 mi^2, of which 1,222 mi^2 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.--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 an emergency spillway 1,700-foot-long 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, 77,180 acre-ft, Jun 30, 2000, elevation, 2,204.75 ft; minimum contents, 34,640 acre-ft, Mar 16, 17, 1999, elevation, 2,180.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 77,180 acre-ft, Jun 30, elevation, 2,204.75 ft; minimum contents, 64,090 acre-ft, Mar 22, elevation, 2,198.52 ft.

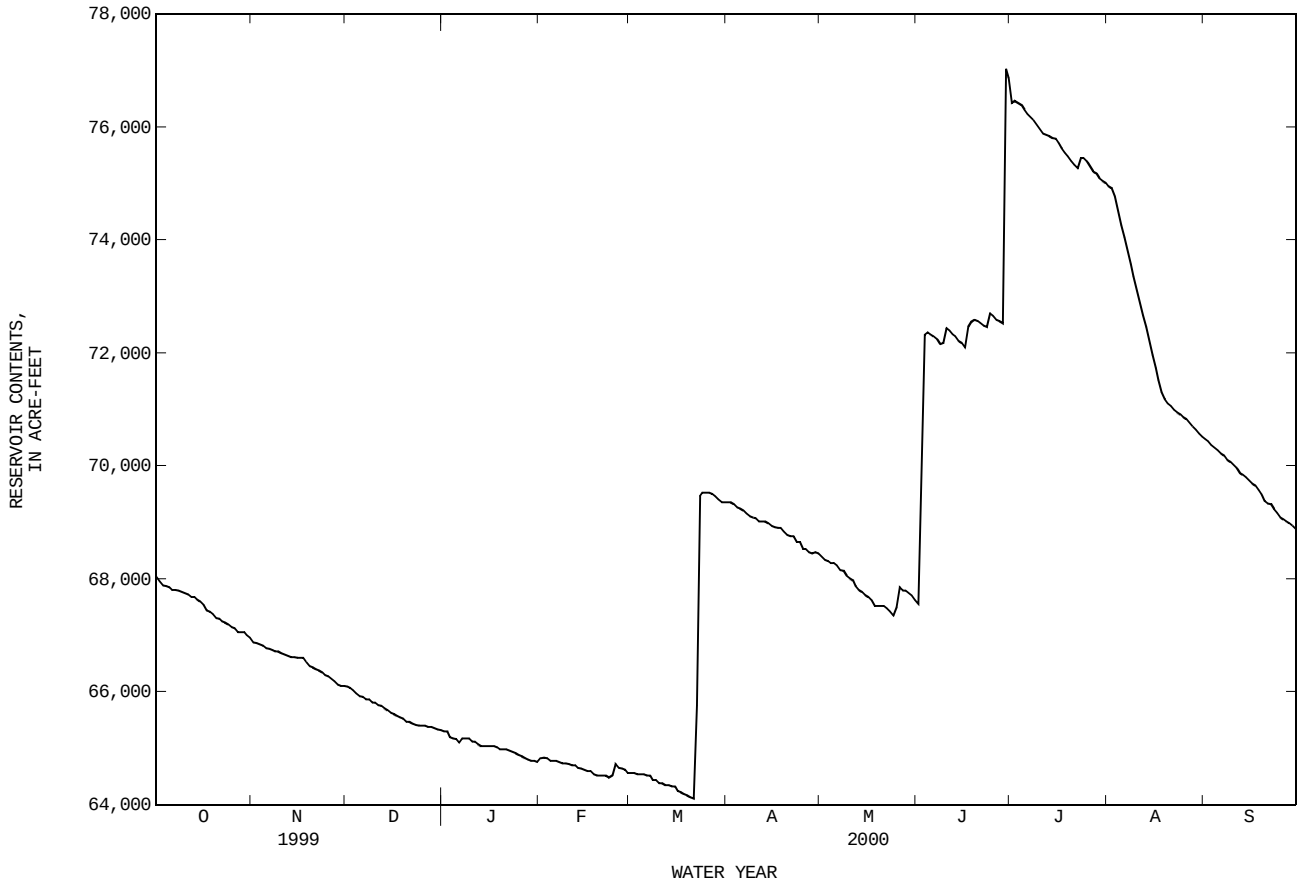
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68030	66880	66090	65300	64820	64560	69360	68390	67560	76430	74960	70470
2	67950	66860	66070	65300	64840	64560	69360	68340	69880	76460	74920	70430
3	67890	66840	66030	65200	64820	64540	69320	68320	72310	76430	74770	70370
4	67870	66820	65970	65180	64780	64540	69270	68280	72360	76390	74530	70320
5	67850	66780	65930	65160	64780	64540	69250	68280	72330	76300	74270	70280
6	67810	66760	65910	65100	64780	64520	69210	68240	72290	76230	74050	70220
7	67810	66740	65870	65180	64760	64520	69150	68160	72250	76170	73810	70180
8	67790	66720	65870	65180	64740	64440	69110	68140	72160	76120	73570	70110
9	67770	66720	65810	65180	64740	64440	69090	68060	72180	76040	73360	70070
10	67750	66680	65810	65120	64720	64380	69070	68010	72440	75970	73120	70010
11	67730	66660	65770	65120	64700	64380	69020	67970	72400	75880	72890	69970
12	67680	66640	65750	65080	64700	64350	69020	67870	72330	75860	72670	69880
13	67680	66620	65710	65040	64660	64350	69020	67810	72290	75840	72460	69840
14	67640	66620	65670	65040	64640	64330	68980	67770	72210	75810	72210	69800
15	67600	66600	65630	65040	64620	64330	68940	67720	72180	75790	71970	69740
16	67540	66600	65610	65040	64600	64250	68920	67680	72100	75730	71740	69690
17	67440	66600	65570	65040	64600	64230	68900	67620	72460	75620	71520	69650
18	67420	66520	65550	65020	64540	64190	68900	67520	72550	75550	71310	69570
19	67370	66460	65530	64980	64520	64170	68840	67520	72590	75480	71180	69510
20	67310	66440	65470	64980	64520	64130	68780	67520	72570	75400	71100	69380
21	67290	66400	65470	64980	64520	64110	68760	67520	72530	75330	71060	69340
22	67250	66380	65440	64960	64520	65750	68760	67480	72480	75270	70990	69320
23	67230	66340	65420	64940	64480	69460	68650	67420	72460	75460	70950	69230
24	67190	66300	65400	64920	64520	69530	68650	67350	72700	75460	70910	69170
25	67150	66280	65400	64880	64720	69530	68530	67500	72650	75400	70870	69090
26	67130	66230	65400	64860	64660	69530	68530	67850	72590	75310	70830	69050
27	67060	66190	65380	64820	64640	69510	68470	67790	72570	75220	70760	69020
28	67060	66130	65380	64800	64620	69460	68450	67790	72530	75180	70700	68980
29	67060	66110	65360	64780	64560	69400	68470	67750	77030	75090	70640	68940
30	67000	66110	65340	64780	---	69360	68450	67700	76870	75050	70570	68880
31	66960	---	65320	64760	---	69360	---	67620	---	75010	70510	---
MAX	68030	66880	66090	65300	64840	69530	69360	68390	77030	76460	74960	70470
MIN	66960	66110	65320	64760	64480	64110	68450	67350	67560	75010	70510	68880
(+)	2199.95	2199.53	2199.14	2198.86	2198.76	2201.11	2200.67	2200.27	2204.61	2203.76	2201.66	2200.88
(@)	-1100	-850	-790	-560	-200	+4800	-910	-830	+9250	-1860	-4500	-1630

CAL YR 1999 MAX 68980 MIN 34640 (@) +29930
WTR YR 2000 MAX 77030 MIN 64110 (@) +820

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

08079700 LAKE ALAN HENRY RESERVOIR NEAR JUSTICEBURG, TX--Continued



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 mi^2, of which 6,932 mi^2 probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Dec 1923 to Sep 1934, Jun 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 Sep 30, 1934, nonrecording gage at site 90 ft downstream at datum 2.0 ft higher, and Jun 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 ft^3/s, which are poor. Since water year 1994, at least 10% of contributing drainage area has been regulated by Lake Alan Henry Reservoir (station 08079700, conservation pool storage 115,937 acre-ft). There are small diversions above station for oil field operations. No flow at times most years. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--64 years (water years 1925-34, 1940-93) prior to completion of Lake Alan Henry Reservoir, 158 ft^3/s (114,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925-34, 1940-93).--Maximum discharge, 91,400 ft^3/s Sep 26, 1955 (gage height, 29.50 ft) from rating curve extended above 75,900 ft^3/s; no flow at times most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	6.9	.00	.00	.80	5.6	132	20	12	274	3.6	.14
2	25	6.2	.00	.01	1.5	55	127	20	213	264	3.6	.02
3	23	3.0	.00	e.05	1.8	42	111	20	427	151	3.6	.00
4	20	e3.0	.00	.07	.72	17	89	20	435	165	3.0	.00
5	18	e3.0	.00	.50	.50	11	89	18	216	121	2.0	.00
6	16	e2.5	.00	.44	.50	e7.5	103	16	125	99	1.4	.00
7	14	e2.0	.00	.11	.50	e7.0	113	15	91	83	1.1	.00
8	15	e1.5	.00	.11	.50	e6.0	88	13	100	66	1.0	.00
9	13	e1.0	.00	.09	.50	e5.5	74	11	86	54	.80	.00
10	12	e.75	.00	.07	.50	e4.5	67	10	73	45	.65	.00
11	10	e.50	.00	.05	.56	e3.5	58	8.4	75	39	.80	.00
12	8.9	e.40	.00	.02	.72	2.8	55	6.9	132	34	.80	.00
13	8.4	e.30	.00	.02	.90	2.0	54	5.0	89	30	.80	.00
14	6.9	e.20	.00	.03	.90	1.0	49	6.2	63	26	1.2	.00
15	5.9	e.10	.00	.07	.80	.56	44	6.2	51	24	8.0	.00
16	5.9	.07	.00	.14	.64	.44	44	6.2	42	22	14	.00
17	5.3	e.05	.00	.64	.50	.44	41	5.6	38	19	16	.00
18	4.4	e.02	.00	.56	.50	.44	40	4.7	81	17	17	.00
19	3.0	.00	.00	.50	.50	.44	36	e4.0	88	15	18	.00
20	1.0	.00	.00	.50	.50	.44	32	e4.0	1020	13	18	.00
21	e.90	.00	.00	.50	.50	.64	29	227	227	11	19	.00
22	e.80	.00	.00	.50	.72	113	27	271	125	9.2	20	.00
23	e.70	.00	.00	.50	1.2	14600	26	53	103	7.6	19	.00
24	e.60	.00	.00	.50	.99	4630	25	17	89	6.9	16	.00
25	e.50	.00	.00	.50	.64	545	24	10	72	6.2	14	.00
26	e.40	.00	.00	.50	.50	273	23	105	60	5.3	9.2	.00
27	e.30	.00	.00	.56	18	230	22	308	66	4.7	5.3	.00
28	e.20	.00	.00	.80	11	200	20	138	115	5.0	3.0	.00
29	8.0	.00	.00	.80	6.9	175	20	57	538	4.7	1.1	.00
30	11	.00	.00	.56	---	156	21	30	184	4.4	.56	.00
31	11	---	.00	.50	---	140	---	18	---	4.1	.33	---
TOTAL	279.10	31.49	0.00	10.20	54.79	21235.80	1683	1454.2	5036	1630.1	222.84	0.16
MEAN	9.00	1.05	.000	.33	1.89	685	56.1	46.9	168	52.6	7.19	.005
MAX	29	6.9	.00	.80	18	14600	132	308	1020	274	20	.14
MIN	.20	.00	.00	.00	.50	.44	20	4.0	12	4.1	.33	.00
AC-FT	554	62	.00	20	109	42120	3340	2880	9990	3230	442	.3

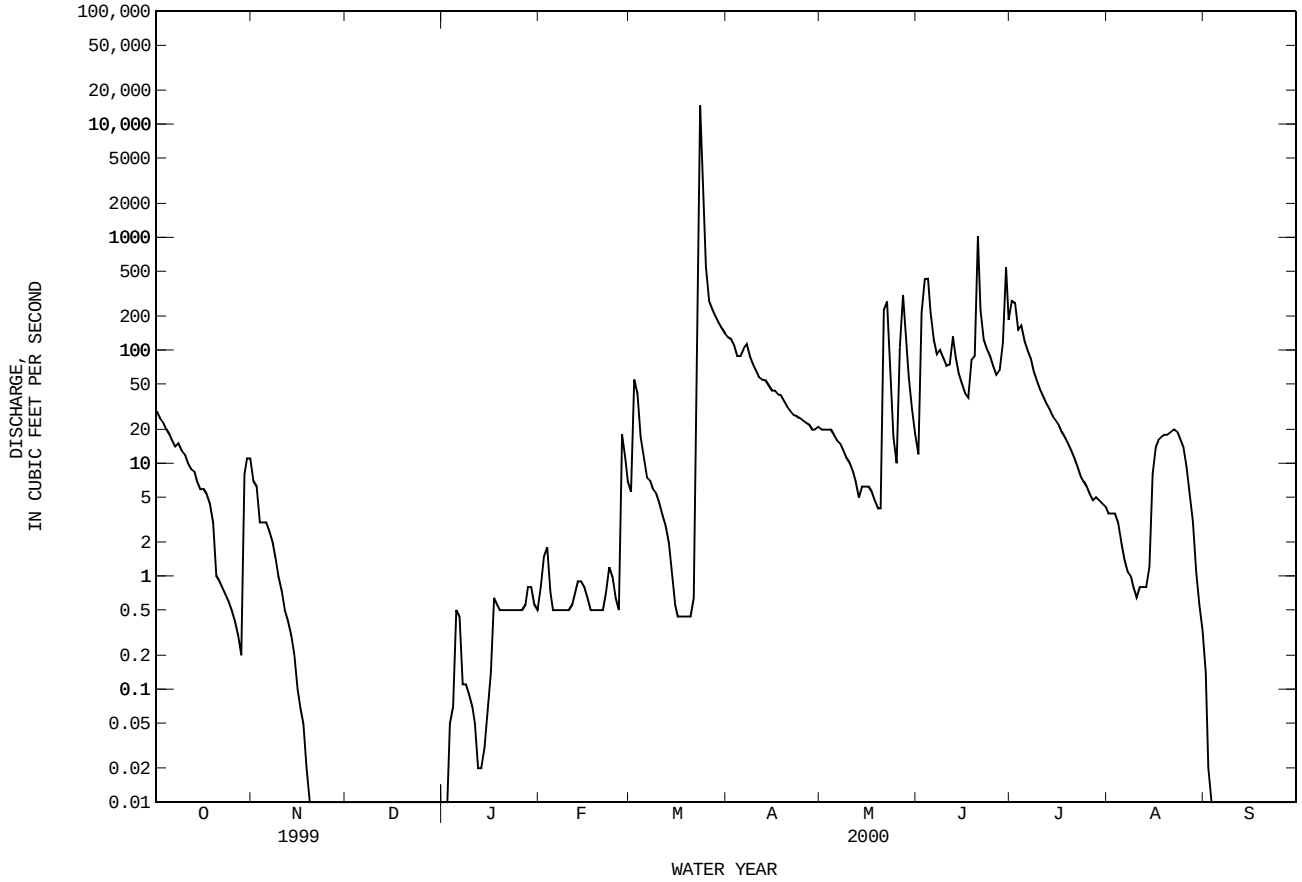
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000z, BY WATER YEAR (WY)

MEAN	9.13	6.98	4.81	3.50	22.4	106	45.2	88.5	288	34.7	49.5	61.1
MAX	25.4	35.4	20.9	10.0	143	685	253	181	1264	99.9	152	231
(WY)	1996	1997	1997	1997	1997	2000	1997	1995	1999	1999	1996	1995
MIN	.94	.25	.000	.33	.005	.042	.033	.84	15.5	.065	.000	.000
(WY)	1999	1994	1999	2000	1999	1995	1995	1996	1994	1994	1994	1998

08080500 DOUBLE MOUNTAIN FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000z	
ANNUAL TOTAL	47297.96		31637.68			
ANNUAL MEAN	130		86.4		59.8	
HIGHEST ANNUAL MEAN					129	1999
LOWEST ANNUAL MEAN					7.55	1998
HIGHEST DAILY MEAN	11600	Jun 13	14600	Mar 23	14600	Mar 23 2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 19	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 19	.00	Oct 1 1993
INSTANTANEOUS PEAK FLOW			23000	Mar 23	23000	Mar 23 2000
INSTANTANEOUS PEAK STAGE			p17.30	Mar 23	p17.30	Mar 23 2000
ANNUAL RUNOFF (AC-FT)	93820		62750		43310	
10 PERCENT EXCEEDS	156		104		78	
50 PERCENT EXCEEDS	.75		3.6		1.5	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
z Period of regulated streamflow.
p Observed.



08080500 DOUBLE MOUNTAIN FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1948 to Nov 1951, Sep 1956 to current year.
BIOCHEMICAL DATA: Jun 1978 to May 1993.
PESTICIDE DATA: Mar to Jun 1979.
SEDIMENT DATA: Sep 1944 to Nov 1951, Jun 1978 to Sep 1993.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1948 to Nov 1951, Sep 1956 to Sep 1995 (local observer).
WATER TEMPERATURE: Nov 1949 to Nov 1951, Sep 1956 to Sep 1995 (local observer).
SUSPENDED-SEDIMENT DISCHARGE: Nov 1949 to Sep 1951 (local observer).

REMARKS.--Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily records of specific conductance and regression relation between each chemical constituent and specific conductance. 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, 13,100 microsiemens, Jul 29, 1980; minimum daily, 720 microsiemens, Oct 18, 1985.
WATER TEMPERATURE: Maximum daily, 38.0°C, Jul 18, 1966; minimum daily, 0.0°C, on many days during winter months.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	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)
NOV											
03...	1230	3.1	9040	16.8	2100	610	129	1340	13	12	1700
MAR											
01...	1200	5.6	7830	16.9	1800	560	101	1070	11	10	1600
24...	1315	2030	1120	15.5	470	170	13	52	1	3.8	410
MAY											
03...	1645	21	10500	29.8	2300	660	156	2000	18	14	1900
JUN											
06...	1310	126	1440	28.9	470	160	16	112	2	4.4	440

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
NOV											
03...	2300	.59	9.7	<.010	<.050	.022	.09	.11	E.031	<.010	--
MAR											
01...	1700	.47	2.5	<.010	<.050	<.020	--	.25	<.050	<.010	--
24...	71	.21	4.6	<.010	.262	<.020	--	.17	<.050	<.010	<1.0
MAY											
03...	3200	.81	14	<.010	<.050	.032	.15	.18	<.050	<.010	--
JUN											
06...	140	.45	7.9	<.010	.196	.061	.29	.35	<.050	<.010	--

DATE	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)
NOV											
03...	--	2	54	--	.58	3.5	--	<1.3	<100	<1.0	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	<1.0	E2	73	<1.0	<1.0	<1.0	<1.0	1.0	<10	<1.0	7
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--

08080500 DOUBLE MOUNTAIN FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

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

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
NOV										
03...	242	<.2	--	--	<2	<1.0	--	--	<200	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
24...	7.0	<.2	1.5	<1.0	<2	<1.0	1520	E5	15	1.8
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--

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 mi west of Spur, and 22.8 mi upstream from Salt Fork Brazos River.

DRAINAGE AREA.--3,069 mi^2, of which 2,380 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Apr 1964 to Sep 1976, Jan 1999 to current year.
Water-quality records.--Chemical data: Dec 1970 to Jul 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 ft^3/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 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 Sep 1976 from area-capacity curves dated Jul 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	2,371.0
Lowest gated outlet (invert)	2,323.0

COOPERATION.--The capacity table dated Jun 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 since reaching normal operating level in Jun 1969, 7,700 acre-ft, Apr 24, 1999, elevation, 2,350.43 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,250 acre-ft, Oct 1, elevation, 2,362.08 ft; minimum contents, 12,110 acre-ft, Sep 30, elevation, 2,355.90 ft.

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

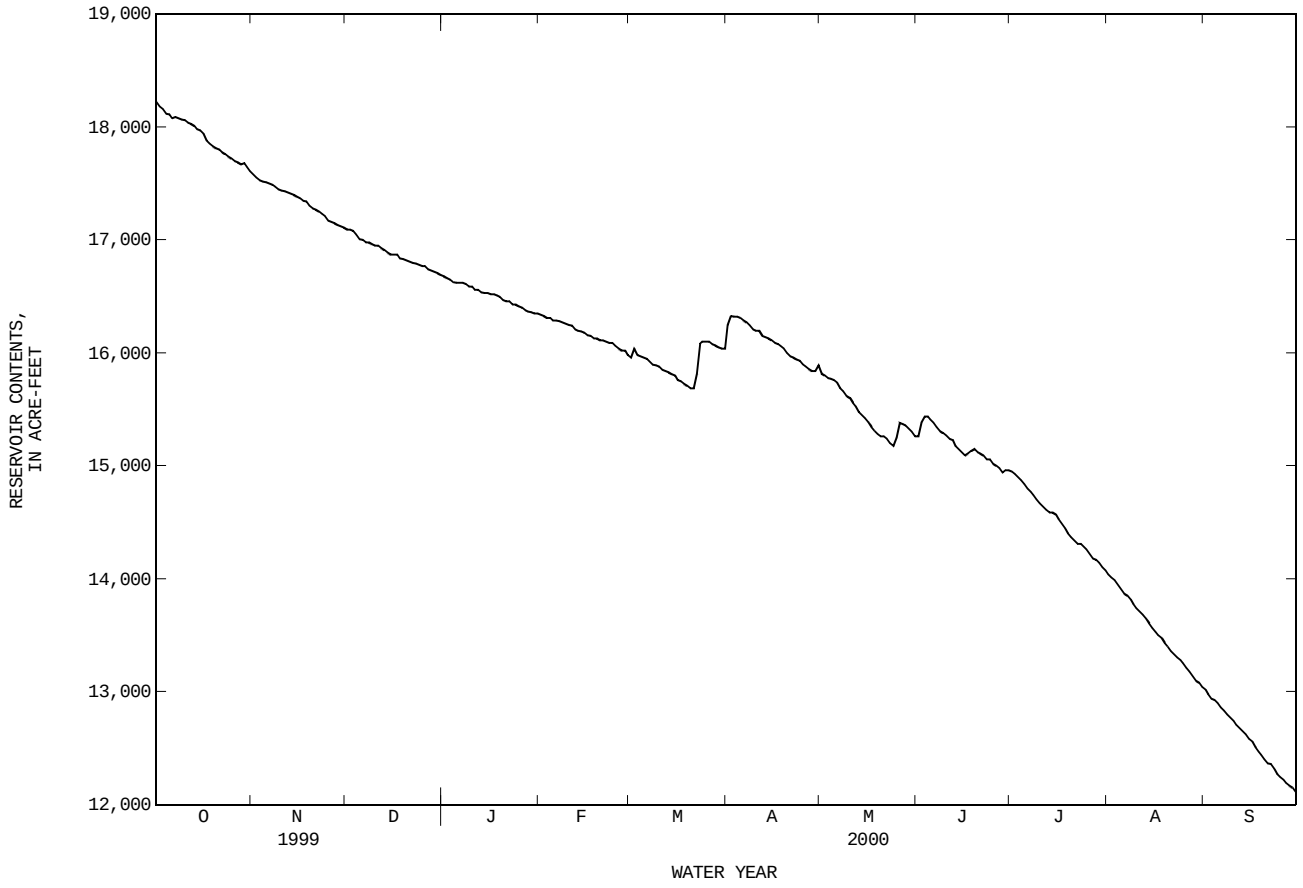
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18220	17580	17090	e16680	16340	15960	16250	15820	15260	14950	14040	13020
2	18180	17550	17090	e16660	16330	16040	16330	15800	15390	14930	14010	12980
3	18160	17530	17080	e16650	16310	15980	16320	15780	15440	14900	13990	12940
4	18120	17520	17050	16630	16310	15970	16320	15770	15440	14870	13950	12930
5	18110	17510	17010	16620	16290	15960	16310	15760	15410	14840	13910	12900
6	18080	17500	17000	16620	16290	15950	16290	15740	15380	14800	13870	12860
7	18090	17490	16980	16620	16280	15920	16270	15690	15340	14770	13850	12830
8	18080	17470	16980	16610	16270	15900	16240	15660	15310	14740	13820	12800
9	18070	17450	16960	16590	16260	15890	16210	15620	15290	14700	13780	12770
10	18060	17440	16950	16590	16250	15880	16200	15600	15270	14670	13740	12740
11	18040	17430	16950	16560	16240	15850	16200	15560	15240	14640	13710	12710
12	18030	17420	16930	16560	16210	15840	16150	15530	15230	14610	13680	12680
13	18010	17410	16910	16540	16200	15830	16140	15480	15180	14590	13650	12650
14	17980	17400	16890	16530	16190	15810	16130	15450	15150	14590	13600	12620
15	17970	17380	16870	16530	16180	15800	16110	15420	15120	14570	13560	12580
16	17940	17370	16870	16520	16160	15760	16090	15390	15090	14530	13530	12560
17	17880	17350	16870	16520	16150	15750	16080	15340	15110	14490	13500	12510
18	17850	17340	16840	16510	16130	15730	16060	15310	15130	14450	13480	12470
19	17830	17300	16830	16500	16130	15710	16040	15280	15150	14400	13430	12440
20	17810	17280	16820	16470	16110	15690	16000	15260	15120	14370	13400	12400
21	17800	17270	16810	16460	16110	15690	15970	15260	15110	14340	13360	12370
22	17780	17250	16800	16460	16100	15820	15960	15240	15090	14310	13330	12360
23	17760	17230	16790	16430	16090	16080	15940	15200	15060	14310	13300	12320
24	17740	17210	16780	16430	16090	16100	15930	15180	15060	14290	13280	12270
25	17720	17170	16770	16410	16060	16100	15900	15250	15020	14260	13250	12240
26	17700	17160	16770	16400	16040	16100	15880	15380	15000	14220	13210	12220
27	17690	17150	16740	16380	16020	16080	15860	15370	14980	14180	13180	12190
28	17670	17130	16730	16370	16020	16070	15840	15360	14940	14170	13140	12170
29	17680	17120	e16720	16360	15980	16050	15840	15330	14960	14140	13100	12150
30	17650	17110	e16710	16350	---	16040	15890	15300	14960	14100	13080	12110
31	17610	---	e16690	16350	---	16040	---	15260	---	14070	13040	---
MAX	18220	17580	17090	16680	16340	16100	16330	15820	15440	14950	14040	13020
MIN	17610	17110	16690	16350	15980	15690	15840	15180	14940	14070	13040	12110
(+)	2361.49	2361.03	2360.63	2360.30	2359.94	2360.00	2359.85	2359.22	2358.92	2358.01	2356.92	2355.90
(@)	-640	-500	-420	-340	-370	+60	-150	-630	-300	-890	-1030	-930

WTR YR 2000 MAX 18220 MIN 12110 (@) -6140

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

LOCATION.--Lat 33°20′02", long 100°14′16", Stonewall County, Hydrologic Unit 12050007, on left bank at downstream side of bridge on U.S. Highway 83, 5.5 mi downstream from Salt Croton Creek, 13.2 mi north of Aspermont, and at mile 27.3 measured from confluence with Double Mountain Fork Brazos River which is at mile 923.2 on the Brazos River.

DRAINAGE AREA.--5,130 mi^2, of which 2,634 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Dec 1923 to Aug 1925, Jun 1939 to current year.
Water-quality records.--Chemical data: Jul 1941 to Oct 1951, Oct 1956 to Aug 1994. Biochemical data: Oct 1974 to Aug 1994. Pesticide data: Mar to Jun 1979. Sediment data: Jun 1961 to Sep 1965, Oct 1974 to Aug 1994. Specific conductance: Oct 1948 to Oct 1951, Oct 1956 to Sep 1982. Water temperature: Oct 1948 to Oct 1951, Oct 1956 to Sep 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,588.70 ft above sea level. Dec 5, 1923 to Aug 29, 1925, nonrecording gage at site 6.7 mi downstream at different datum. Jun 15, 1939 to Jul 13, 1972, water-stage recorder at present site. Jul 14, 1972 to Jul 14, 1975, at site 0.1 mi upstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair except those for estimated daily discharges and discharges below 1.0 ft^3/s, which are poor. Since water year 1964, at least 10% of contributing drainage area has been regulated by White River Reservoir (station 08080910, conservation pool storage 31,537 acre-ft), 106 mi upstream. There are no large diversions above station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--24 years (water years 1940-63) prior to completion of White River Reservoir, 148 ft^3/s (107,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1940-63).--Maximum discharge, 52,200 ft^3/s Sep 25, 1955 (gage height, 14.92 ft) from rating curve extended above 28,800 ft^3/s by logarithmic plotting; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec 1913 reached a stage of 14.4 ft, and flood in Nov 1934 reached a stage of 13.7 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	e.25	.00	e.00	.00	.14	65	97	2.3	14	.01	.00
2	.10	e.21	.00	e.01	.00	.15	55	39	1160	80	.02	.00
3	.08	.18	.00	e.01	.00	.17	46	26	382	44	e.03	.00
4	.08	e.15	.00	e.03	.00	.18	28	18	174	32	e.03	.00
5	.06	e.15	.00	e.06	.00	.18	12	12	99	19	e.03	.00
6	.05	e.12	.00	e.09	.00	.19	6.1	7.1	48	12	e.03	.00
7	.02	e.10	.00	e.15	.00	.22	e5.4	4.4	27	9.1	e.03	.00
8	.21	e.12	.00	.27	.00	.22	e4.4	2.9	20	5.8	e.03	.00
9	.05	e.10	.00	.18	.00	.23	e3.6	1.8	18	2.6	.03	.00
10	.01	e.09	.00	e.04	.00	.24	3.2	1.2	14	.89	e.02	.00
11	e.00	e.07	.00	e.01	.00	.25	3.2	.76	9.2	.89	e.02	.00
12	.00	e.07	.00	e.00	.00	.25	3.2	.35	12	.65	e.02	.00
13	.00	e.06	.00	.00	.00	.25	3.2	.18	16	7.8	e.02	.00
14	.00	e.06	.00	.00	.00	.26	3.2	.78	9.2	1.2	e.02	.00
15	.00	e.06	.00	.00	.00	.28	3.2	.14	5.5	.21	e.02	.00
16	.00	.05	.00	.00	.00	.29	3.2	.09	3.8	.06	.02	.00
17	.00	e.04	.00	.00	.00	.27	1.8	.06	15	.04	e.01	.00
18	.00	e.03	.00	.00	.00	.32	1.8	.05	26	.04	e.01	.00
19	.00	e.02	.00	.00	.00	.34	1.8	.89	118	.04	e.00	.00
20	.00	e.01	.00	.00	.00	.34	.89	.34	169	.03	.00	.00
21	.00	e.01	.00	.00	.00	.38	.89	.15	88	.03	.00	.00
22	.00	e.00	.00	.00	.00	119	5.5	70	61	.03	.00	.00
23	.00	.00	.00	.00	.00	4470	14	32	42	.03	.00	.00
24	.00	.00	.00	.00	e.00	583	4.4	1.2	32	.03	.00	.00
25	.00	.00	.00	.00	.94	294	1.8	8.5	24	.03	.00	.00
26	.00	.00	.00	.00	.12	165	1.0	254	17	.03	.00	.00
27	.00	.00	.00	.00	.13	101	.89	265	26	.03	.00	.00
28	.00	.00	.00	.00	.13	77	.41	121	28	.03	.00	.00
29	e.00	.00	.00	.00	.12	63	.41	56	22	.03	.00	.00
30	1.0	.00	.00	.00	---	48	700	31	17	.02	.00	.00
31	.53	---	.00	.00	---	38	---	8.5	---	.01	.00	---
TOTAL	2.29	1.95	0.00	0.85	1.44	5963.15	983.49	1060.39	2685.0	230.65	0.40	0.00
MEAN	.074	.065	.000	.027	.050	192	32.8	34.2	89.5	7.44	.013	.000
MAX	1.0	.25	.00	.27	.94	4470	700	265	1160	80	.03	.00
MIN	.00	.00	.00	.00	.00	.14	.41	.05	2.3	.01	.00	.00
AC-FT	4.5	3.9	.00	1.7	2.9	11830	1950	2100	5330	457	.8	.00

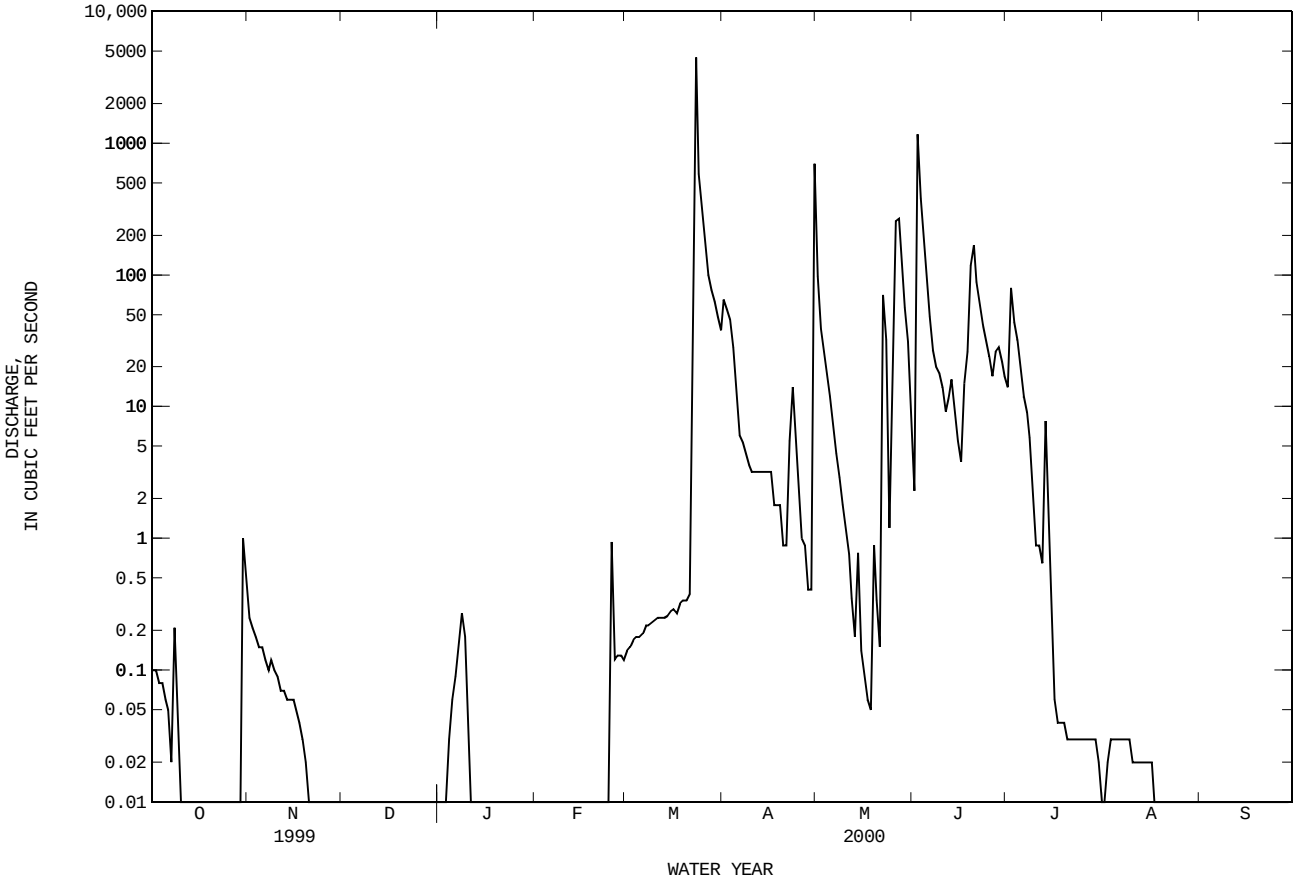
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000z, BY WATER YEAR (WY)

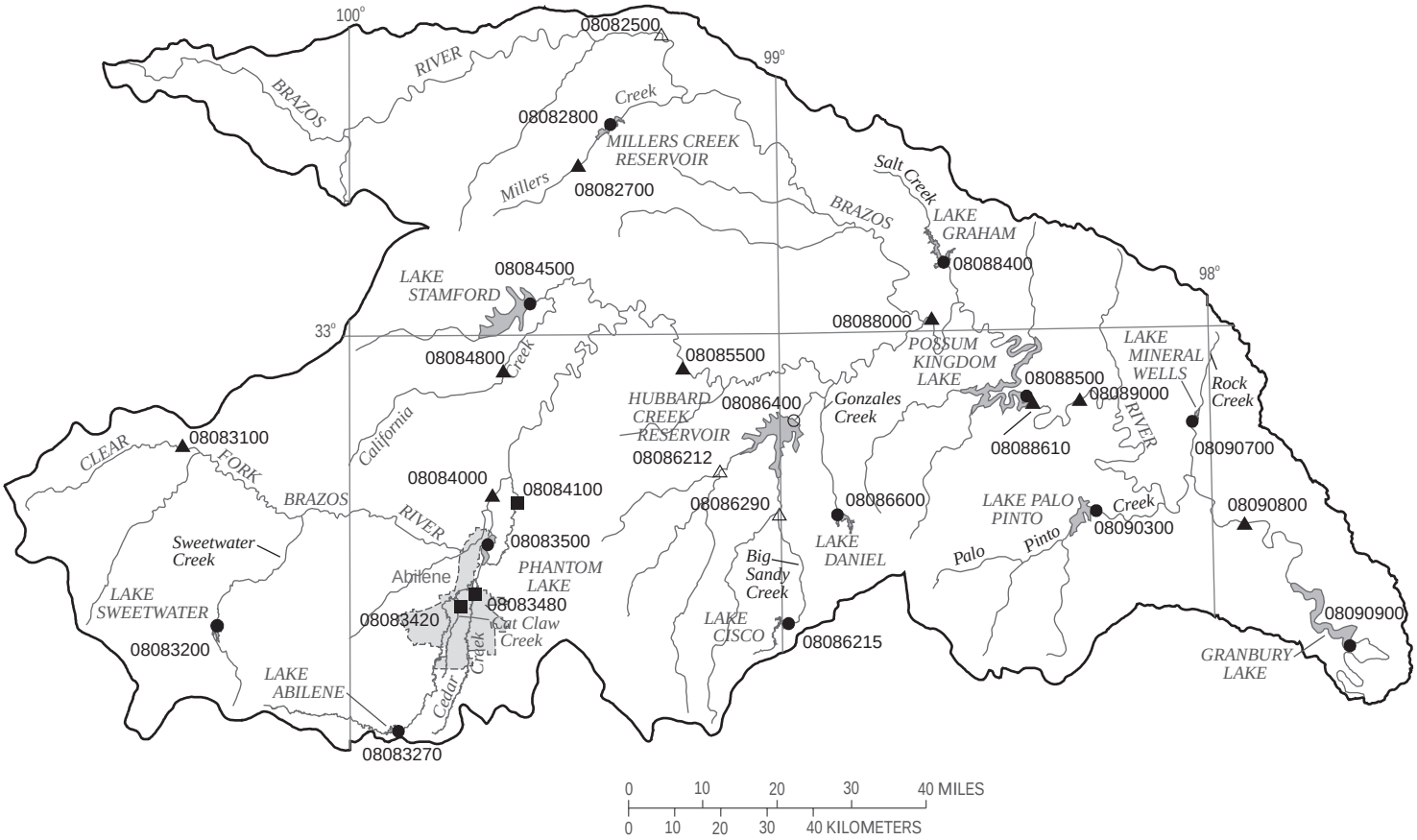
MEAN	98.2	25.1	18.9	16.1	23.2	29.3	34.9	121	182	33.5	106	107
MAX	918	125	226	134	232	192	200	724	1087	206	1054	664
(WY)	1987	1987	1992	1992	1992	2000	1997	1987	1990	1967	1972	1966
MIN	.059	.065	.000	.027	.050	.26	.26	.35	1.10	.011	.013	.000
(WY)	1980	2000	2000	2000	2000	1971	1971	1964	1998	1998	2000	2000

08082000 SALT FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000z	
ANNUAL TOTAL	20300.33		10929.61			
ANNUAL MEAN	55.6		29.9		66.3	
HIGHEST ANNUAL MEAN					212	1987
LOWEST ANNUAL MEAN					11.7	1998
HIGHEST DAILY MEAN	2480	Jun 13	4470	Mar 23	11300	Aug 14 1972
LOWEST DAILY MEAN	.00	Oct 11	.00	Oct 11	.00	Jul 31 1972
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 11	.00	Oct 11	.00	Oct 11 1999
INSTANTANEOUS PEAK FLOW			10000	Mar 23	c30200	Aug 30 1966
INSTANTANEOUS PEAK STAGE			7.98	Mar 23	12.45	Aug 30 1966
ANNUAL RUNOFF (AC-FT)	40270		21680		48000	
10 PERCENT EXCEEDS	100		31		110	
50 PERCENT EXCEEDS	.20		.03		6.9	
90 PERCENT EXCEEDS	.00		.00		.15	

e Estimated
z Period of regulated streamflow.
c From rating curve extended above 28,800 ft^3/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 234
08082700 Millers Creek near Munday, TX 238
08082800 Millers Creek Reservoir near Bomarton, TX 240
08083100 Clear Fork Brazos River near Roby, TX 242
08083200 Lake Sweetwater near Sweetwater, TX 244
08083270 Lake Abilene near Buffalo Gap, TX 246
08083420 Cat Claw Creek at Abilene, TX 488
08083480 Cedar Creek at Interstate Highway 20 at Abilene, TX 488
08083500 Fort Phantom Hill Reservoir near Nugent, TX 248
08084000 Clear Fork Brazos River near Nugent, TX 250
08084100 Deadman Creek near Nugent, TX 485
08084500 Lake Stamford near Haskell, TX 252
08084800 California Creek near Stamford, TX 254
08085500 Clear Fork Brazos River at Fort Griffin, TX 256
08086212 Hubbard Creek below Albany, TX 258
08086215 Lake Cisco near Cisco, TX 264
08086290 Big Sandy Creek above Breckenridge, TX 268
08086400 Hubbard Creek Reservoir near Breckenridge, TX 274
08086600 Lake Daniel near Breckenridge, TX 280
08088000 Brazos River near South Bend, TX 284
08088400 Lake Graham near Graham, TX 286
08088500 Possum Kingdom Lake near Graford, TX 288
08088610 Brazos River near Graford, TX 290
08089000 Brazos River near Palo Pinto, TX 292
08090300 Lake Palo Pinto near Santo, TX 294
08090700 Lake Mineral Wells near Mineral Wells, TX 298
08090800 Brazos River near Dennis, TX 302
08090900 Lake Granbury near Granbury, TX 304

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 mi^2, approximately, of which 9,566 mi^2 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. Since water year 1964, at least 10% of contributing drainage area has been regulated by White River Reservoir (station 08080910, conservation pool storage 31,537 acre-ft). Flow 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 mi^2 above this station. Small diversions upstream from station for irrigation and for oil field operations. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1906 reached about the same stage as the flood in 1955.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--39 years (water years 1925-63) prior to regulation by small diversions, 434 ft^3/s (314,100 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-63).--Maximum discharge, 95,400 ft^3/s Oct 16, 1926 (gage height, 15.16 ft); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	e19	2.0	2.5	7.7	2.3	411	1340	167	486	3.2	.00
2	61	e11	2.8	4.6	4.8	24	363	845	121	589	2.3	.02
3	51	e7.4	.75	21	4.6	2.7	347	434	143	659	1.8	.02
4	43	6.1	1.3	4.5	4.4	2.0	300	261	1260	862	1.2	.00
5	40	5.3	.56	2.3	2.4	2.1	267	177	990	413	.50	.00
6	33	5.7	1.7	2.6	4.6	2.6	237	135	761	307	.08	.00
7	26	5.1	1.5	19	2.1	20	210	111	520	270	.02	.00
8	23	4.5	1.9	43	2.0	24	164	96	333	206	.01	.00
9	20	3.7	43	14	1.9	15	158	75	238	162	.01	.00
10	15	3.8	74	7.7	2.1	12	169	72	189	131	.01	.00
11	11	3.4	17	8.9	.99	6.7	159	60	184	99	.02	.00
12	9.0	2.6	9.1	8.7	1.6	5.3	173	47	161	73	.04	.00
13	7.3	2.4	3.9	7.6	1.8	4.7	154	32	150	168	.02	.00
14	6.4	2.3	1.6	6.0	.80	5.8	142	28	131	82	.01	.00
15	4.7	1.1	.71	6.8	.96	5.6	138	31	149	57	.02	.00
16	4.2	.85	.26	7.7	.90	5.0	182	34	143	48	.01	.00
17	3.9	.57	.50	5.7	1.5	4.6	123	29	226	26	.05	.00
18	5.0	.32	.23	4.9	1.2	5.5	147	23	296	21	.08	.00
19	4.2	.04	.79	4.5	.85	3.5	143	15	177	18	.04	.00
20	3.1	.02	1.0	3.3	.97	2.6	112	19	190	15	.01	.00
21	e4.2	.17	.07	5.1	.87	3.7	99	23	156	12	.01	.00
22	e3.8	.88	1.2	7.6	21	21	100	39	765	9.4	.00	.00
23	e3.4	.09	.99	4.5	9.6	4110	111	27	661	8.2	.00	.00
24	e3.0	.07	.33	3.8	2.8	10300	144	20	402	6.6	.09	.00
25	e2.6	.31	.89	4.3	28	7450	115	157	276	5.4	.00	.00
26	e2.3	.00	1.3	4.7	3.8	3390	106	140	204	5.1	.00	.00
27	e1.9	.00	3.3	7.9	3.9	1570	102	107	170	4.5	.00	.00
28	e1.5	.04	.49	7.2	2.0	981	85	91	219	7.6	.00	.01
29	e5.0	.63	2.0	8.3	1.9	714	74	285	365	7.4	.00	.00
30	e25	1.4	1.1	7.0	---	577	84	428	378	4.5	.00	.00
31	e35	---	1.7	6.7	---	478	---	255	---	3.8	.00	---
TOTAL	532.5	88.79	177.97	252.4	122.04	29750.7	5119	5436	10125	4766.5	9.53	0.05
MEAN	17.2	2.96	5.74	8.14	4.21	960	171	175	338	154	.31	.002
MAX	74	19	74	43	28	10300	411	1340	1260	862	3.2	.02
MIN	1.5	.00	.07	2.3	.80	2.0	74	15	121	3.8	.00	.00
AC-FT	1060	176	353	501	242	59010	10150	10780	20080	9450	19	.1

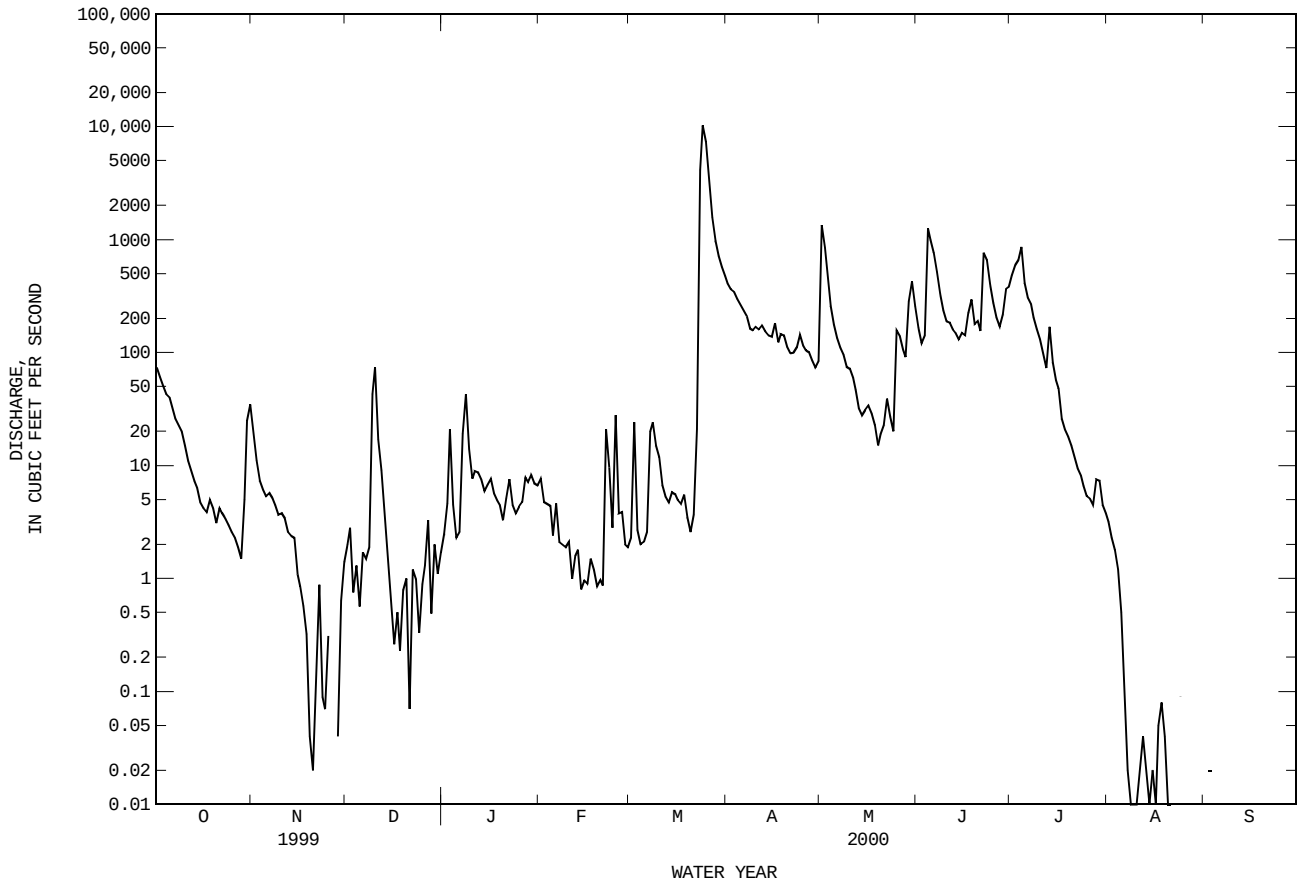
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	347	121	75.8	71.7	113	153	174	560	754	176	352	456
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	95346.86		56380.48			
ANNUAL MEAN	261		154		280	
HIGHEST ANNUAL MEAN					742	1987
LOWEST ANNUAL MEAN					61.1	1998
HIGHEST DAILY MEAN	11500	Jun 14	10300	Mar 24	30700	Jun 4 1990
LOWEST DAILY MEAN	.00	Nov 26	.00	Nov 26	.00	May 24 1964
ANNUAL SEVEN-DAY MINIMUM	.16	Nov 23	.00	Aug 25	.00	Jul 12 1964
INSTANTANEOUS PEAK FLOW			13100	Mar 24	42700	Aug 16 1972
INSTANTANEOUS PEAK STAGE			12.00	Mar 24	18.35	Aug 16 1972
ANNUAL RUNOFF (AC-FT)	189100		111800		202600	
10 PERCENT EXCEEDS	547		272		525	
50 PERCENT EXCEEDS	25		5.4		49	
90 PERCENT EXCEEDS	1.2		.00		2.5	

e Estimated
z Period of regulated streamflow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Aug 1942 to Sep 1995, Oct 1996 to current year.
BIOCHEMICAL DATA: Oct 1974 to Sep 1977.
PESTICIDE DATA: Apr 1975 to Aug 1977.
SEDIMENT DATA: Oct 1974 to Sep 1977.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Aug 1959 to Sep 1995.
WATER TEMPERATURE: Aug 1959 to Sep 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 80,400 microsiemens, May 24, 1971; minimum daily, 47 microsiemens, 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	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)
OCT										
20...	1150	4.4	7810	8.2	15.3	10.4	109	1300	1200	370
FEB										
01...	1330	10	6400	8.1	9.5	13.2	122	900	700	220
MAY										
12...	1140	48	16100	8.1	26.0	8.0	109	2100	1900	590

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT										
20...	97	1140	14	12	110	1300	1900	.95	12	4870
FEB										
01...	87	1100	16	6.4	200	930	1500	.87	1.9	3960
MAY										
12...	142	2810	27	15	120	1700	4700	.54	8.1	10100

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)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
OCT										
20...	--	<.010	<.050	<.020	--	.28	<.050	<.010	3	67
FEB										
01...	1.57	.029	1.60	<.020	--	.30	<.050	<.010	2	41
MAY										
12...	--	<.010	.224	.022	.16	.18	<.050	<.010	--	--

DATE	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)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
20...	<.14	<1.0	2.0	<40	<1.0	27	<.2	<2	<1.0	<80
FEB										
01...	<2.0	<5.0	<2.0	140	<2.0	25	<.2	3	<2.0	E11
MAY										
12...	--	--	--	--	--	--	--	--	--	--

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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 mi^2.

PERIOD OF RECORD.--Jul 1963 to current year.
Water-quality records.--Sediment data: Oct 1976 to Sep 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 good. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1883 occurred Jun 13, 1930, and exceeded 18.0 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 28	0230	298	6.37	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	118	e.75	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	16	e.20	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	e6.0	e.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	e3.0	e.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	e1.5	5.6	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	e.70	6.7	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	e.30	e2.0	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	e.10	e1.0	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	e.00	e.20	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	4.6	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	6.3	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00
23	.00	.00	.00	.00	.00	2.0	.00	.00	.03	.00	.00	.00
24	.00	.00	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.20	.00	.15	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.02	.00	114	.15	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	169	.04	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	19	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	35	4.5	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	e1.5	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	4.41	35.00	453.75	29.78	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.14	1.17	14.6	.99	.000	.000	.000
MAX	.00	.00	.00	.00	.00	2.0	35	169	6.7	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	8.7	69	900	59	.00	.00	.00

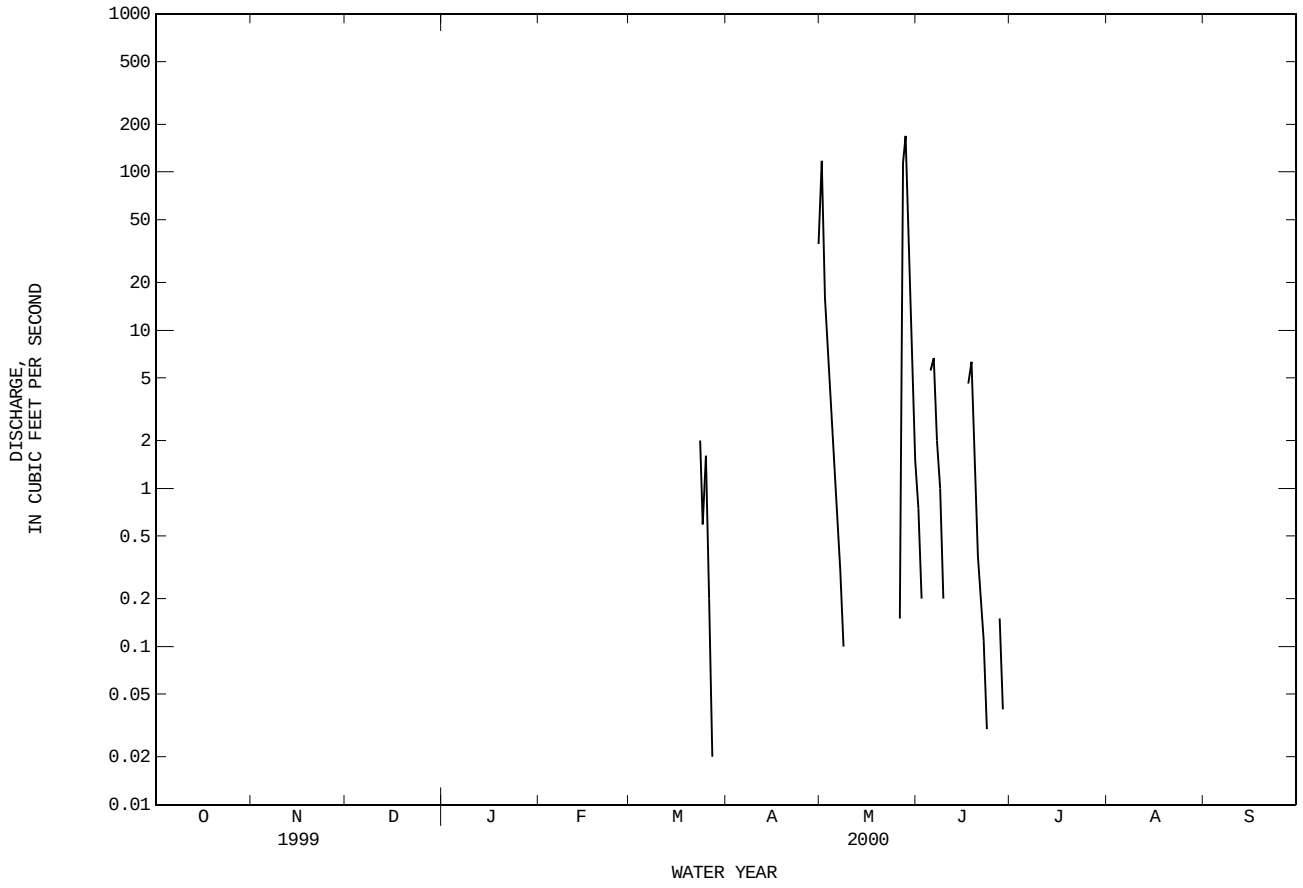
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	4.53	1.43	.72	1.68	4.72	2.52	5.27	13.5	27.0	3.21	14.9	5.66
MAX	92.7	37.7	13.1	34.8	94.5	25.8	128	182	420	44.5	403	72.1
(WY)	1987	1973	1992	1968	1992	1973	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	116.75		522.94			
ANNUAL MEAN	.32		1.43		7.13	
HIGHEST ANNUAL MEAN					50.7	1982
LOWEST ANNUAL MEAN					.033	1984
HIGHEST DAILY MEAN	9.3	May 27	169	May 28	8730	Aug 4 1978
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Aug 2 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Aug 2 1963
INSTANTANEOUS PEAK FLOW			298	May 28	34600	Aug 4 1978
INSTANTANEOUS PEAK STAGE			6.37	May 28	17.53	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	232		1040		5160	
10 PERCENT EXCEEDS	.52		.01		1.2	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08082700 MILLERS CREEK NEAR MUNDAY, TX--Continued



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 mi^2

PERIOD OF RECORD.--Aug 1974 to Oct 1994, Jul 1998 to current year.
Water-quality records.--Chemical data: Oct 1975 to Sep 1984.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Freese and Nichols, Inc., consulting engineers bench mark). 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 Jul 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 Jul 12,1993, were provided by the Texas Water Developmnet Board. Records of diversions provided by North Central Texas Municipal Water Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 53,850 acre-ft, Jun 26, 1982, elevation, 1,341.42 ft; minimum contents were below dead storage elevation prior to Apr 20, 1977, and Jul 17 to Aug 3, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,730 acre-ft, Oct 1, elevation, 1,322.22 ft; minimum contents, 6,370 acre-ft, Sep 30, elevation, 1,316.59 ft.

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

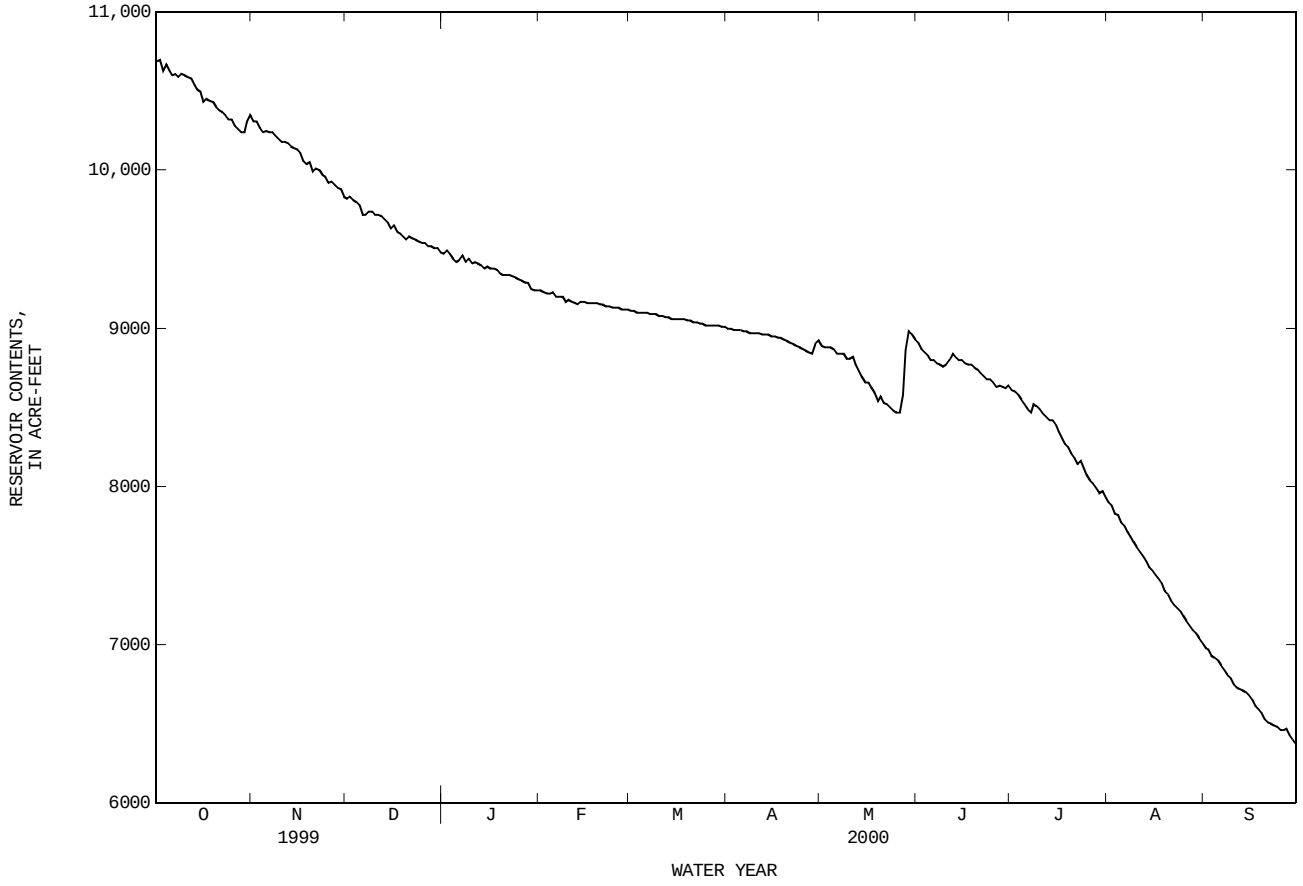
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10690	10310	9820	9470	9240	e9110	e9000	e8890	8910	8610	7900	6980
2	10700	10310	9830	9490	9230	e9110	e9000	e8880	8870	8600	7880	6970
3	10630	10270	9810	9470	9220	e9100	e8990	8880	8850	8580	7830	6930
4	10670	10240	9800	9440	9220	e9100	e8990	8880	8830	8550	7820	6920
5	10630	10250	9780	9420	9230	e9100	e8990	8870	8800	8520	7770	6900
6	10600	10240	9720	9430	9200	e9100	e8980	8840	8800	8490	7750	6870
7	10610	10240	9720	9460	9200	e9090	e8980	8840	8780	8470	7710	6840
8	10590	10220	9740	9420	9200	e9090	e8970	8840	8770	8520	7680	6810
9	10610	10200	9740	9440	9170	e9090	e8970	8810	8760	8510	7650	6790
10	10600	10180	9720	9410	9180	e9080	e8970	8810	8770	8490	7620	6750
11	10590	10180	9720	9420	9170	e9080	e8970	8820	8800	8460	7590	6730
12	10580	10170	9710	9410	9160	e9070	e8960	8770	8840	8440	7560	6720
13	10540	10150	9690	9400	9150	e9070	e8960	8730	8820	8420	7530	6710
14	10510	10140	9670	9380	9170	e9060	e8960	8690	8800	8420	7490	6700
15	10500	10130	9630	9390	e9170	e9060	e8950	8660	8800	8390	7470	6680
16	10430	10110	9650	9380	e9160	e9060	e8950	8660	8780	8350	7440	6650
17	10450	10060	9610	9380	e9160	e9060	e8940	8620	8770	8310	7420	6610
18	10440	10040	9600	9370	e9160	e9060	e8940	8590	8770	8270	7390	6590
19	10430	10050	9580	9350	e9160	e9050	e8930	8540	8750	8250	7340	6570
20	10400	9990	9560	9340	e9150	e9050	e8920	8570	8740	8210	7320	6530
21	10380	10010	9580	9340	e9150	e9040	e8910	8530	8720	8180	7280	6510
22	10370	10000	9570	e9340	e9140	e9040	e8900	8520	8700	8140	7250	6500
23	10350	9970	9560	e9330	e9140	e9030	e8890	8500	8680	8160	7230	6490
24	10320	9960	9550	e9320	e9130	e9030	e8880	8480	8680	8120	7210	6480
25	10320	9920	9540	e9310	e9130	e9020	e8870	8470	8660	8070	7180	6460
26	10280	9930	9540	e9300	9130	e9020	e8860	8470	8630	8040	7150	6460
27	10260	9910	9520	e9290	9120	e9020	e8850	8580	8640	8020	7120	6470
28	10240	9890	9520	9290	e9120	e9020	e8840	8860	8630	7990	7090	6430
29	10240	9880	9510	9250	e9120	e9020	e8900	8980	8620	7960	7070	6400
30	10310	9830	9510	9240	---	e9010	e8920	8960	8640	7970	7040	6370
31	10350	---	9480	9240	---	e9010	---	8930	---	7930	7010	---
MAX	10700	10310	9830	9490	9240	9110	9000	8980	8910	8610	7900	6980
MIN	10240	9830	9480	9240	9120	9010	8840	8470	8620	7930	7010	6370
(+)	1321.79	1321.19	1320.78	1320.49	1320.34	1320.20	1320.09	1320.11	1319.74	1318.81	1317.54	1316.59
(@)	-340	-520	-350	-240	-120	-110	-90	+10	-290	-710	-920	-640
(++)	131	115	109	120	106	107	104	128	110	161	167	128

CAL YR 1999 MAX 15750 MIN 9480 (@) -6160
WTR YR 2000 MAX 10730 MIN 6370 (@) -5930

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

LOCATION.--Lat 32°47′15", long 100°23′18", Fisher County, Hydrologic Unit 12060102, on right bank at downstream side of pile bent of bridge on State Highway 70, 3.0 mi north of Roby, 3.2 mi upstream from Cottonwood Creek, and 255.7 mi upstream from mouth.

DRAINAGE AREA.--228 mi^2.

PERIOD OF RECORD.--Dec 1961 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,885.09 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation. There are several small diversions above station. No flow at times most years. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since the 1890′s, about 22 ft in May and Jun 1935, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 23	1300	c9,000	a22.35	Jun 30	1415	515	9.78
Jun 20	1445	306	8.23				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	4.3	.18	.00	39	.00	.00
2	.00	.00	.00	.00	.00	.00	4.0	.15	2.0	12	.00	.00
3	.00	.00	.00	.00	.00	.00	3.6	.10	.01	29	.00	.00
4	.00	.00	.00	.00	.00	.00	3.2	.09	8.7	7.5	.00	.00
5	.00	.00	.00	.00	.00	.00	2.8	.10	2.9	3.0	.00	.00
6	.00	.00	.00	.00	.00	.00	2.6	.10	.70	1.5	.00	.00
7	.00	.00	.00	.00	.00	.00	2.0	.09	.08	.81	.00	.00
8	.00	.00	.00	.00	.00	.00	2.1	.04	.01	.32	.00	.00
9	.00	.00	.00	.00	.00	.00	2.0	.00	.00	.08	.00	.00
10	.00	.00	.00	.00	.00	.00	2.0	.00	.00	.03	.00	.00
11	.00	.00	.00	.00	.00	.00	1.9	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.92	.00	150	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.88	.00	17	.00	.00	.00
22	.00	.00	.00	.00	.00	.07	.87	.00	3.6	.00	.00	.00
23	.00	.00	.00	.00	.00	4420	.74	.00	1.2	.00	.00	.00
24	.00	.00	.00	.00	.00	1020	.45	.00	.47	.00	.00	.00
25	.00	.00	.00	.00	.00	82	.32	.00	.09	.00	.00	.00
26	.00	.00	.00	.00	.00	27	.34	.00	.01	.00	.00	.00
27	.00	.00	.00	.00	.00	14	.35	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	8.5	.30	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	6.0	.33	.00	17	.00	.00	.00
30	.00	.00	.00	.00	---	4.9	.25	.00	304	.00	.00	.00
31	.00	---	.00	.00	---	4.5	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	5586.97	47.45	0.85	507.77	93.24	0.00	0.00
MEAN	.000	.000	.000	.000	.000	180	1.58	.027	16.9	3.01	.000	.000
MAX	.00	.00	.00	.00	.00	4420	4.3	.18	304	39	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	11080	94	1.7	1010	185	.00	.00

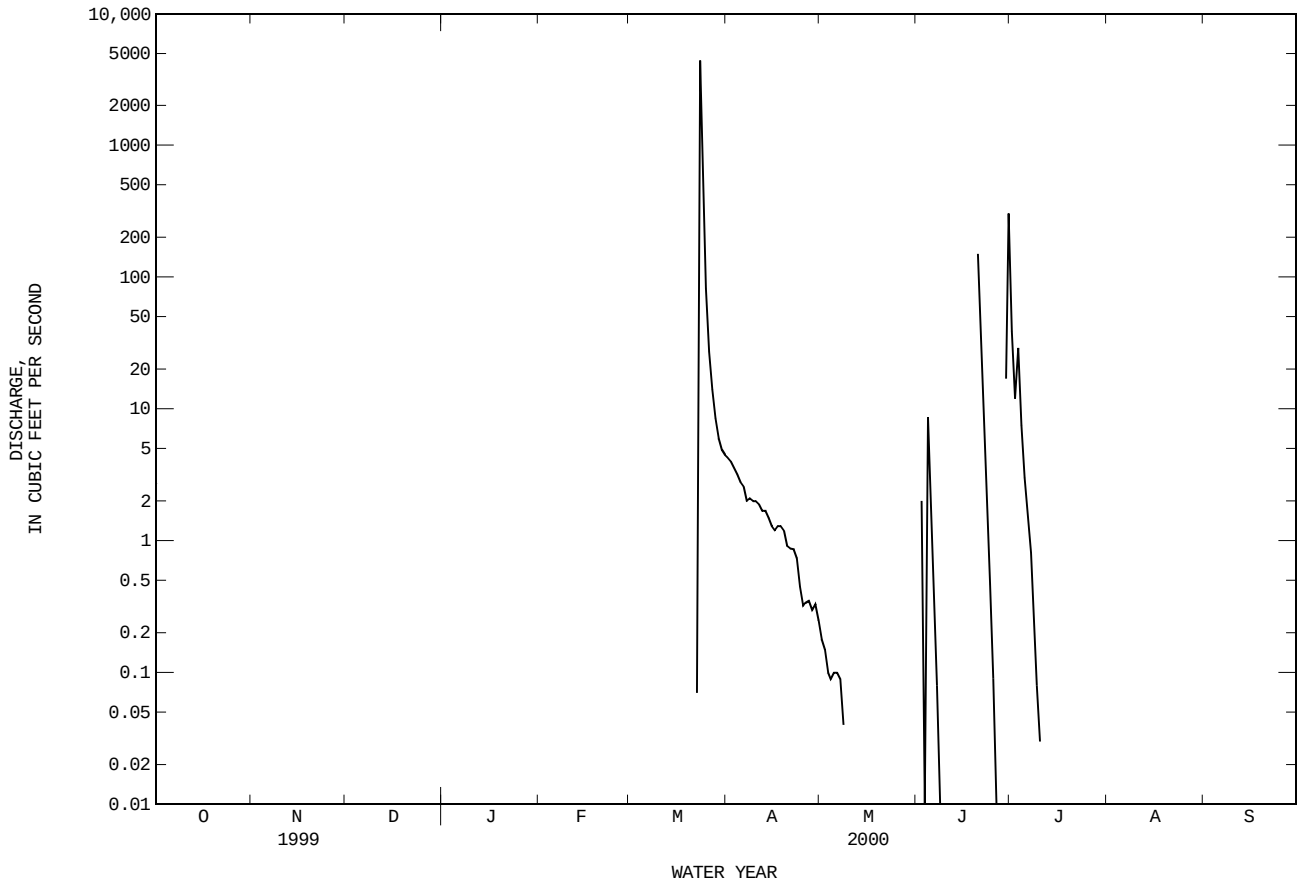
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	9.92	2.46	2.63	2.58	3.35	7.89	5.75	24.2	15.5	5.64	8.42	18.4
MAX	142	17.6	15.8	12.7	23.9	180	51.6	257	84.4	60.6	141	249
(WY)	1966	1987	1987	1987	1992	2000	1981	1982	1981	1975	1971	1969
MIN	.000	.000	.000	.000	.000	.034	.052	.027	.065	.023	.000	.000
(WY)	2000	2000	2000	2000	2000	1999	1999	2000	1998	1998	1998	1998

08083100 CLEAR FORK BRAZOS RIVER NEAR ROBY, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	1249.76		6236.28			
ANNUAL MEAN	3.42		17.0		8.93	
HIGHEST ANNUAL MEAN					29.6	1982
LOWEST ANNUAL MEAN					.42	1998
HIGHEST DAILY MEAN	716	Jun 13	4420	Mar 23	4420	Mar 23 2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Apr 24 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 11	.00	Oct 1	.00	Aug 3 1964
INSTANTANEOUS PEAK FLOW			c9000	Mar 23	c9000	Mar 23 2000
INSTANTANEOUS PEAK STAGE			a22.35	Mar 23	a22.35	Mar 23 2000
ANNUAL RUNOFF (AC-FT)	2480		12370		6470	
10 PERCENT EXCEEDS	.09		1.5		6.6	
50 PERCENT EXCEEDS	.00		.00		1.5	
90 PERCENT EXCEEDS	.00		.00		.19	

c From rating curve extended above 7,050 ft^3/s.
a From floodmark.



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 mi^2.

PERIOD OF RECORD.--Jan 1936 to Sep 1974, Mar 1999 to current year. Prior to Oct 1969, end of month contents only.

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.--No estimated daily contents. Records good. 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, Jun 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, 7,690 acre-ft, Oct 1, elevation, 2,108.66 ft; minimum contents, 4,540 acre-ft, Sep 30, elevation, 2,100.66 ft.

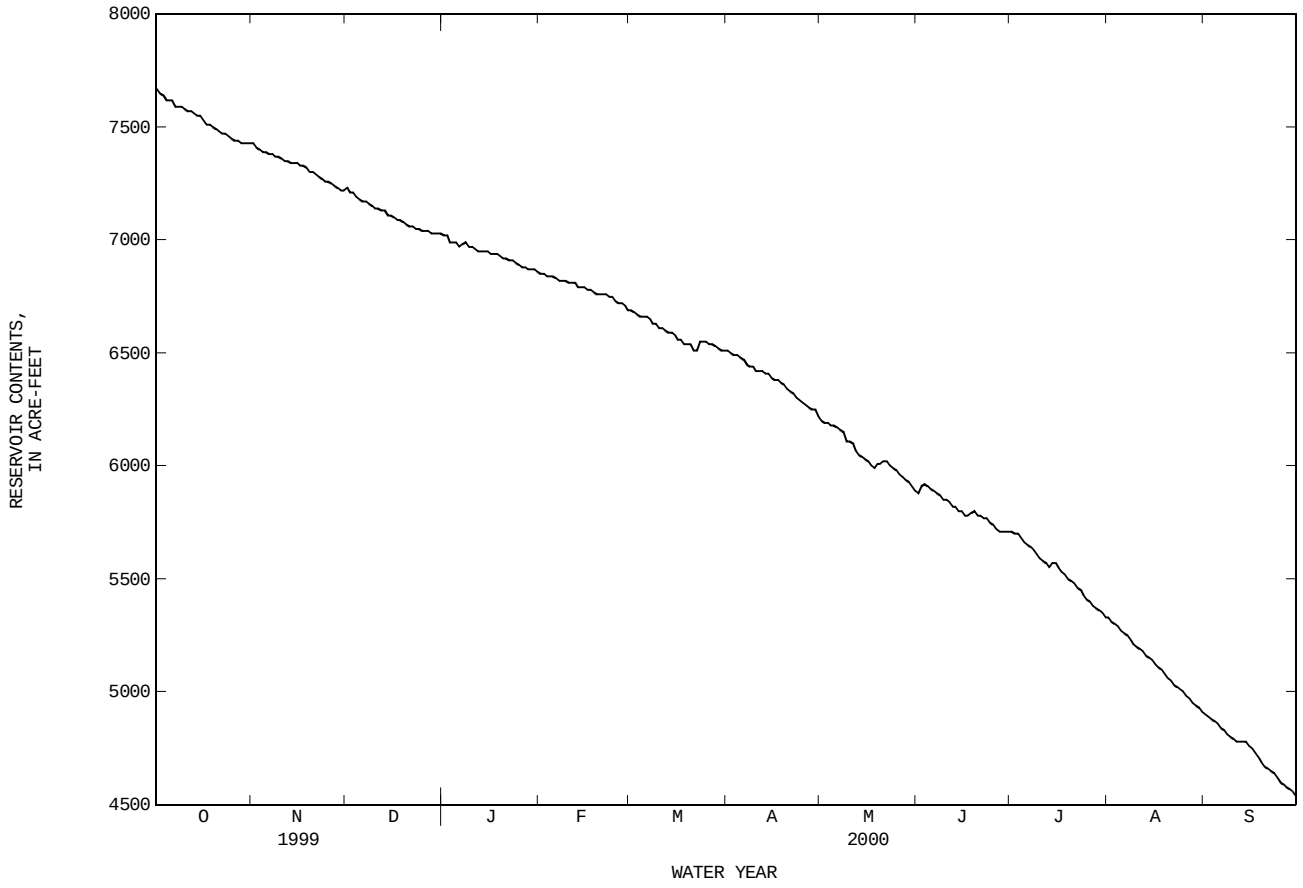
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7670	7430	7230	7020	6850	6690	6510	6200	5880	5710	5330	4900
2	7650	7410	7210	7020	6850	6680	6500	6190	5910	5700	5310	4890
3	7640	7400	7210	6990	6840	6670	6490	6190	5920	5700	5300	4880
4	7620	7390	7190	6990	6840	6660	6490	6180	5910	5680	5290	4870
5	7620	7390	7180	6990	6840	6660	6480	6180	5900	5660	5270	4860
6	7620	7380	7170	6970	6830	6660	6470	6170	5890	5650	5260	4840
7	7590	7380	7170	6980	6820	6650	6450	6160	5880	5640	5250	4830
8	7590	7370	7160	6990	6820	6630	6440	6150	5870	5630	5230	4810
9	7590	7370	7150	6970	6820	6630	6440	6110	5850	5610	5210	4800
10	7580	7360	7140	6970	6810	6610	6420	6110	5850	5590	5200	4790
11	7570	7350	7140	6960	6810	6610	6420	6100	5840	5580	5190	4780
12	7570	7350	7130	6950	6810	6600	6420	6070	5820	5570	5180	4780
13	7560	7340	7130	6950	6790	6590	6410	6050	5820	5550	5160	4780
14	7550	7340	7110	6950	6790	6590	6410	6040	5800	5570	5150	4780
15	7550	7340	7110	6950	6790	6580	6390	6030	5800	5570	5140	4760
16	7530	7330	7100	6940	6780	6560	6380	6020	5780	5550	5120	4750
17	7510	7330	7090	6940	6780	6560	6380	6000	5780	5530	5110	4730
18	7510	7320	7090	6940	6770	6540	6370	5990	5790	5520	5100	4710
19	7500	7300	7080	6930	6760	6540	6360	6010	5800	5500	5080	4690
20	7490	7300	7070	6920	6760	6540	6340	6010	5780	5490	5060	4670
21	7480	7290	7060	6920	6760	6510	6330	6020	5780	5480	5050	4660
22	7470	7280	7060	6910	6760	6510	6320	6020	5770	5460	5030	4650
23	7470	7270	7050	6910	6750	6550	6300	6000	5770	5450	5020	4640
24	7460	7260	7050	6900	6750	6550	6290	5990	5750	5430	5010	4620
25	7450	7260	7040	6890	6730	6550	6280	5980	5740	5410	5000	4600
26	7440	7250	7040	6880	6720	6540	6270	5960	5720	5400	4980	4590
27	7440	7240	7040	6880	6720	6540	6260	5950	5710	5380	4970	4580
28	7430	7230	7030	6870	6710	6530	6250	5940	5710	5370	4950	4570
29	7430	7220	7030	6870	6690	6520	6250	5930	5710	5360	4940	4560
30	7430	7220	7030	6870	---	6510	6220	5910	5710	5350	4930	4540
31	7430	---	7030	6860	---	6510	---	5890	---	5330	4910	---
MAX	7670	7430	7230	7020	6850	6690	6510	6200	5920	5710	5330	4900
MIN	7430	7220	7030	6860	6690	6510	6220	5890	5710	5330	4910	4540
(+)	2108.12	2107.65	2107.22	2106.84	2106.43	2106.06	2105.33	2104.49	2104.02	2103.01	2101.80	2100.67
(@)	-250	-210	-190	-170	-170	-180	-290	-330	-180	-380	-420	-370

WTR YR 2000 MAX 7670 MIN 4540 (@) -3140

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

08083200 LAKE SWEETWATER NEAR SWEETWATER, TX--Continued



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 mi^2.

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

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

REMARKS.--Records fair except those for estimated daily contents, which are poor. The lake is formed by a rolled earthfill dam 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, Jun 14, 1999, elevation, 2,001.15 ft; minimum contents, 11 acre-ft, Sep 30, 2000, elevation, 1,989.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 434 acre-ft, Oct 1, elevation, 1,996.48 ft; minimum contents, 11 acre-ft, Sep 30, elevation, 1,989.37 ft.

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

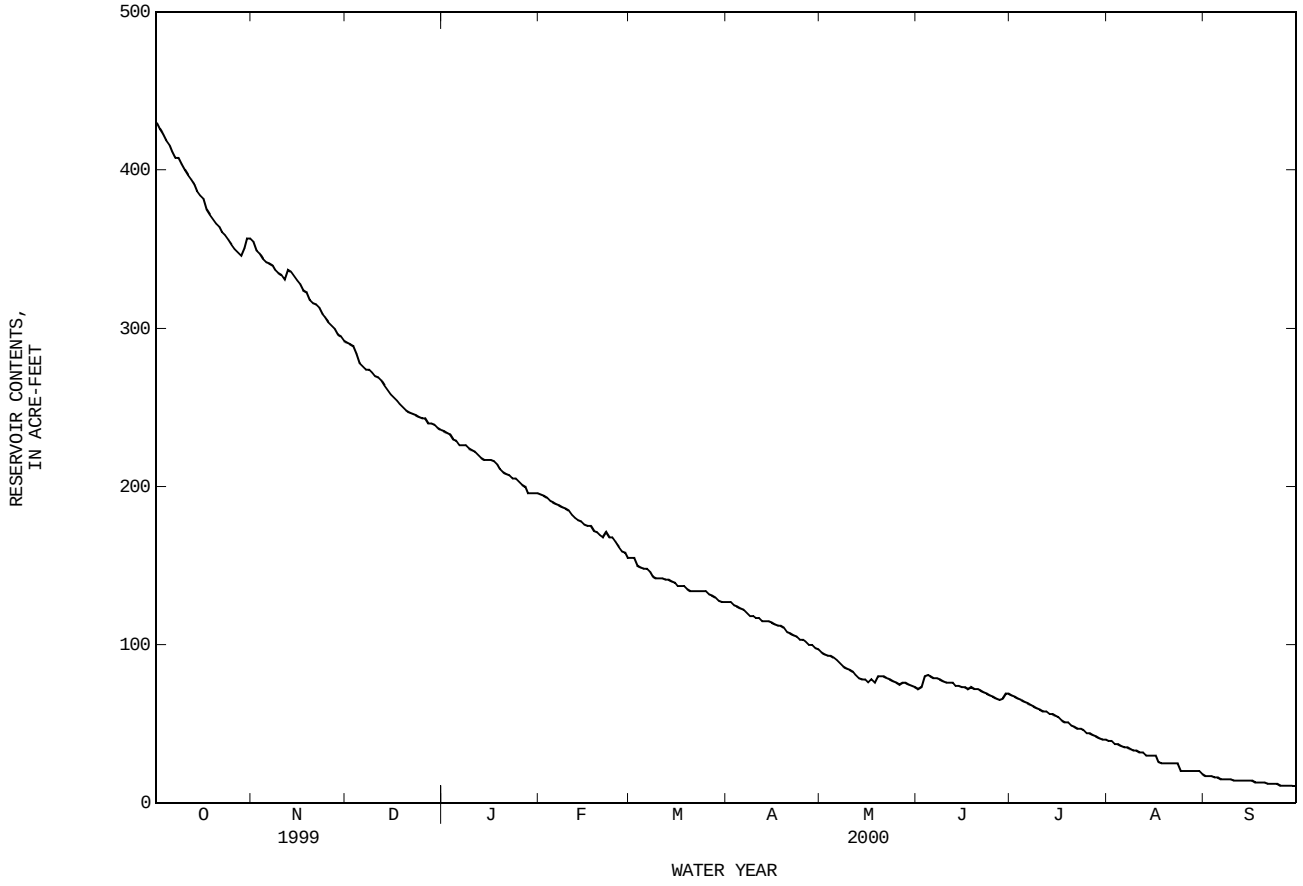
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	355	291	235	195	155	127	95	72	68	39	17
2	426	349	290	234	194	155	127	94	73	67	39	17
3	423	347	289	233	193	150	125	93	80	66	37	17
4	419	344	284	230	191	149	124	93	81	65	37	16
5	416	342	278	229	190	148	123	92	80	64	36	16
6	412	341	276	226	189	148	122	90	79	63	35	15
7	408	340	274	226	188	146	120	88	79	62	35	15
8	408	337	274	226	187	143	118	86	78	61	34	15
9	404	335	272	224	186	142	118	85	77	60	33	15
10	400	334	270	223	185	142	117	84	76	59	33	14
11	397	331	269	222	182	142	117	83	76	58	32	14
12	394	337	267	220	180	141	115	81	76	58	32	14
13	391	336	264	218	179	141	115	79	74	56	e30	14
14	387	333	261	217	178	140	115	78	74	56	e30	14
15	384	330	258	217	176	139	114	78	73	55	e30	14
16	382	328	256	217	175	137	113	76	73	54	e30	14
17	375	324	254	216	175	137	112	78	72	52	26	13
18	372	323	252	214	172	137	112	76	73	51	e25	13
19	369	318	250	211	171	135	111	80	72	51	e25	13
20	366	316	248	209	169	134	108	80	72	49	e25	13
21	364	315	247	208	168	134	107	80	71	48	e25	12
22	361	313	246	207	171	134	106	79	70	47	e25	12
23	359	309	245	205	168	134	105	78	69	47	e25	12
24	356	307	244	205	168	134	103	77	68	46	e20	12
25	353	304	243	203	165	134	103	76	67	44	e20	11
26	350	302	243	201	162	132	102	75	66	44	e20	11
27	348	300	240	200	159	131	100	76	65	43	e20	11
28	346	296	240	196	158	130	100	76	66	42	e20	11
29	351	295	239	196	155	128	98	75	69	41	e20	11
30	357	292	237	196	---	127	97	74	69	40	e20	11
31	357	---	236	196	---	127	---	73	---	40	18	---
MEAN	383	324	259	215	177	139	112	82	73	53	28	14
MAX	430	355	291	235	195	155	127	95	81	68	39	17
MIN	346	292	236	196	155	127	97	73	65	40	18	11
(+)	1995.91	1995.36	1994.82	1994.31	1993.78	1993.27	1992.63	1992.02	1991.90	1990.99	1989.93	1989.37
(@)	-225	-65	-56	-40	-41	-28	-30	-24	-4	-29	-22	-7

WTR YR 2000 MAX 430 MIN 11 (@) -571

e Estimated

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

08083270 LAKE ABILENE NEAR BUFFALO GAP, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1940 to Sep 1986, Mar 1999 to current year. Prior to Oct 1965, end of month contents only.
Water-quality records.--Chemical data: Apr 1964 to Jan 1965, Sep 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.--No estimated daily contents. Records good. 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-foot 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 Jul 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, 28,090 acre-ft, Jul 3, elevation, 1,621.75 ft; minimum contents, 20,230 acre-ft, Dec 18, elevation, 1,617.70 ft.

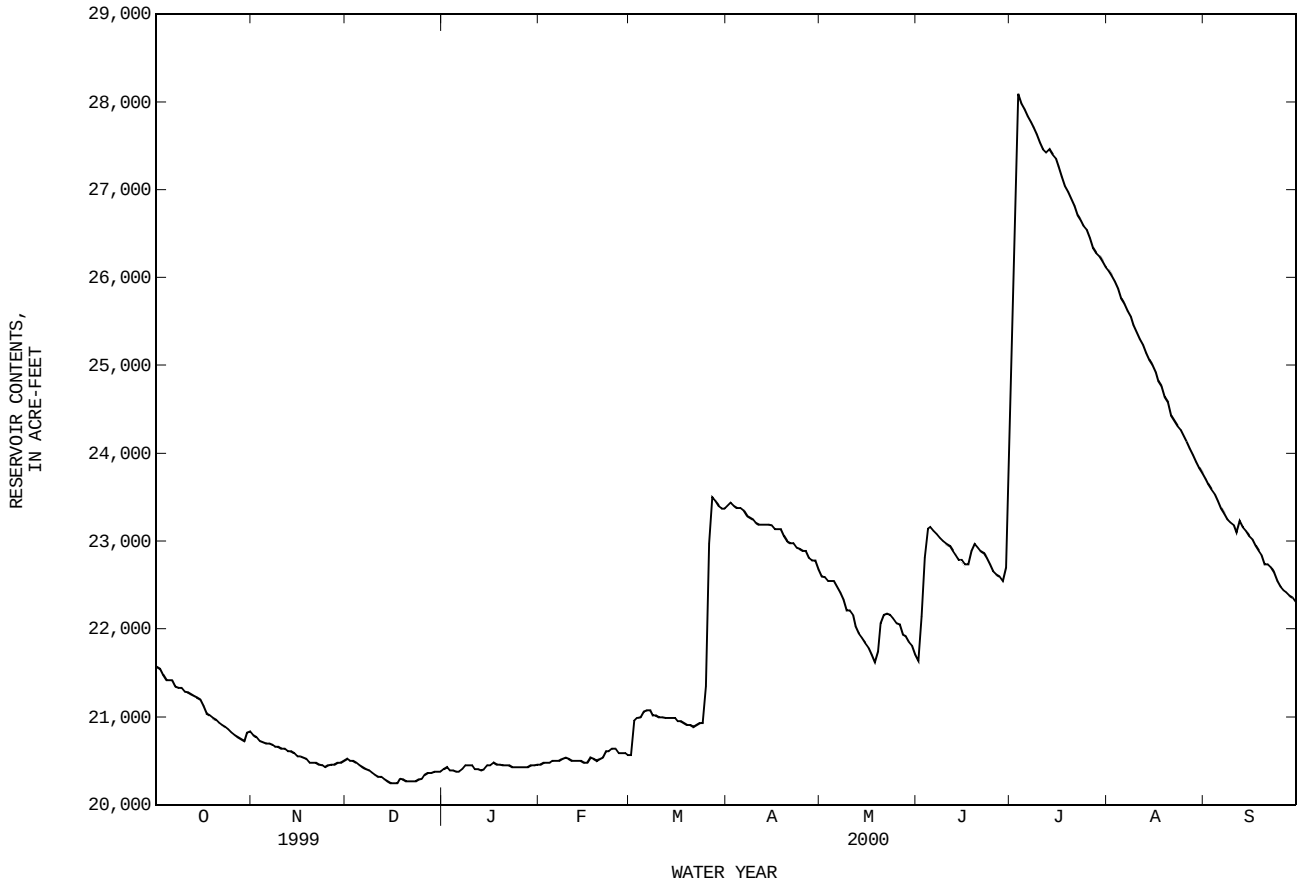
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21570	20790	20520	20410	20460	20570	23400	22600	21640	25920	26080	23710
2	21550	20770	20500	20430	20480	20950	23440	22590	22140	27130	26020	23650
3	21480	20730	20500	20390	20480	20990	23400	22550	22810	28090	25960	23590
4	21420	20710	20480	20390	20480	21000	23380	22550	23140	27980	25880	23540
5	21420	20700	20450	20380	20500	21060	23380	22550	23160	27920	25760	23460
6	21420	20700	20430	20380	20500	21080	23350	22480	23120	27840	25700	23370
7	21350	20680	20410	20410	20500	21080	23290	22420	23080	27770	25620	23310
8	21330	20660	20390	20450	20520	21020	23270	22340	23040	27710	25560	23250
9	21330	20660	20360	20450	20540	21020	23250	22210	23000	27630	25460	23210
10	21290	20640	20340	20450	20520	21000	23210	22210	22970	27540	25380	23180
11	21280	20640	20320	20410	20500	21000	23190	22160	22950	27460	25300	23100
12	21260	20610	20320	20410	20500	20990	23190	22030	22890	27420	25240	23230
13	21240	20610	20290	20390	20500	20990	23190	21950	22850	27460	25140	23160
14	21220	20590	20270	20410	20500	20990	23190	21900	22790	27400	25060	23120
15	21200	20550	20250	20450	20480	20990	23180	21840	22790	27360	25000	23060
16	21130	20550	20250	20450	20480	20950	23140	21790	22740	27270	24920	23020
17	21040	20540	20250	20480	20540	20950	23140	21710	22740	27150	24820	22950
18	21020	20520	20300	20460	20520	20930	23140	21620	22890	27040	24760	22890
19	20990	20480	20290	20460	20500	20910	23060	21750	22970	26980	24640	22850
20	20970	20480	20270	20450	20520	20910	23000	22070	22930	26900	24580	22740
21	20930	20480	20270	20450	20540	20890	22980	22160	22890	26820	24430	22740
22	20910	20460	20270	20450	20610	20910	22980	22180	22870	26710	24370	22700
23	20890	20450	20270	20430	20610	20930	22930	22160	22810	26650	24310	22640
24	20860	20430	20290	20430	20640	20930	22910	22120	22740	26590	24270	22550
25	20820	20450	20300	20430	20640	21350	22890	22070	22660	26550	24210	22480
26	20790	20460	20340	20430	20590	22970	22890	22050	22620	26450	24140	22440
27	20770	20460	20360	20430	20590	23500	22810	21940	22600	26340	24060	22420
28	20750	20480	20360	20430	20590	23460	22780	21920	22550	26280	23980	22380
29	20730	20480	20380	20450	20570	23400	22780	21860	22700	26240	23900	22360
30	20820	20500	20380	20450	---	23370	22680	21810	24210	26180	23830	22310
31	20840	---	20380	20460	---	23370	---	21710	---	26120	23770	---
MAX	21570	20790	20520	20480	20640	23500	23440	22600	24210	28090	26080	23710
MIN	20730	20430	20250	20380	20460	20570	22680	21620	21640	25920	23770	22310
(+)	1618.04	1617.85	1617.78	1617.83	1617.89	1619.40	1619.04	1618.52	1619.84	1620.80	1619.61	1618.84
(@)	-800	-340	-120	+80	+110	+2800	-690	-970	+2500	+1910	-2350	-1460

WTR YR 2000 MAX 28090 MIN 20250 (@) +670

(+) 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

LOCATION.--Lat 32°41′24", long 99°40′09", Jones County, Hydrologic Unit 12060102, on right bank 33 ft downstream from bridge on Farm Road 600 at Nugent, 2 mi downstream from Elm Creek, 4 mi upstream from Deadman Creek, and 167.8 mi upstream from mouth.

DRAINAGE AREA.--2,199 mi^2.

PERIOD OF RECORD.--Feb 1924 to current year.
Water-quality records.--Chemical data: Aug 1948 to Sep 1953, Feb 1968 to Sep 1981. Biochemical data: Feb 1968 to Sep 1981.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,531.91 ft above sea level (levels by Brazos River Authority). Prior to Dec 12, 1933, nonrecording gage at site 575 ft downstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair except those for Oct 6 to Nov 17, which are poor. Since water year 1930, at least 10% of contributing drainage area has been regulated by three upstream reservoirs with a conservation pool storage of 18,000 acre-ft. There are numerous diversions above station for municipal supply and oil field operations that materially affect streamflow. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1925-29) prior to completion of Lake Sweetwater, 145 ft^3/s (105,200 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-29).--Maximum discharge observed, 11,500 ft^3/s May 20, 1928 (gage height, 18.00 ft), site then in use; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 30 ft in 1876; floods in 1900 and May 1923 reached stages of 24 and 24.5 ft, respectively, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.05	.14	.12	.19	.19	14	.50	.03	1630	.07	.00
2	.03	.05	.17	.12	.19	.21	12	.50	56	11	.07	.00
3	.03	.07	.12	.18	.13	.20	11	.50	22	6.2	.07	.00
4	.02	.05	.14	.12	.12	.21	11	.50	126	71	.05	.00
5	.02	.05	.08	.12	.12	.21	8.5	.50	24	43	.05	.00
6	.03	.07	.07	.12	.12	.21	7.7	.27	66	31	.04	.00
7	.03	.07	.07	.12	.12	.24	6.5	.13	38	18	.03	.00
8	.02	.06	.08	.16	.12	.21	5.8	.07	22	12	.03	.00
9	.02	.07	.09	.18	.13	.21	5.4	.05	11	8.1	.02	.00
10	.03	.10	.07	.16	.15	.21	4.1	.05	5.0	6.1	.02	.00
11	.04	.11	.07	.17	.20	.21	3.7	.05	2.4	4.4	.02	.00
12	.03	.07	.11	.20	.20	.19	3.3	.05	1.2	3.5	.02	.00
13	.03	.07	.08	.17	.13	.13	2.7	.04	.30	3.4	.01	.00
14	.03	.12	.09	.21	.10	.19	2.1	.04	.12	5.0	.01	.00
15	.05	.10	.07	.21	.12	.21	1.7	.05	.18	3.7	.01	.00
16	.05	.07	.07	.21	.12	.20	1.9	.05	.11	3.0	.01	.00
17	.06	.07	.07	.25	.12	.16	2.8	.05	.07	2.5	.00	.00
18	.05	.08	.07	.21	.11	.12	2.9	.04	.15	2.5	.00	.00
19	.05	.07	.11	.16	.09	.12	3.3	.29	.21	2.7	.00	.00
20	.03	.07	.11	.12	.12	.13	3.4	.59	.52	1.8	.00	.00
21	.03	.07	.08	.12	.19	.14	3.4	13	.39	1.3	.00	.00
22	.03	.08	.07	.12	.24	.21	2.1	13	3.6	1.0	.00	.00
23	.03	.07	.07	.12	.23	.54	2.4	3.6	170	.60	.00	.00
24	.03	.07	.07	.12	.22	.21	2.2	1.3	38	.46	.00	.00
25	.03	.07	.07	.12	.21	433	1.7	.41	13	.28	.00	.00
26	.03	.07	.07	.12	.19	1800	1.8	.16	5.4	.16	.00	.00
27	.03	.07	.07	.12	.21	252	2.0	.06	2.8	.07	.00	.00
28	.05	.12	.08	.12	.20	59	2.4	.06	1.5	.06	.00	.00
29	.05	.12	.12	.12	.17	35	1.7	.05	45	.05	.00	.00
30	.05	.12	.12	.13	---	24	1.1	.05	1190	.05	.00	.00
31	.05	---	.12	.18	---	17	---	.04	---	.07	.00	---
TOTAL	1.08	2.33	2.82	4.70	4.56	2624.86	134.6	36.05	1844.98	1873.00	0.53	0.00
MEAN	.035	.078	.091	.15	.16	84.7	4.49	1.16	61.5	60.4	.017	.000
MAX	.06	.12	.17	.25	.24	1800	14	13	1190	1630	.07	.00
MIN	.02	.05	.07	.12	.09	.12	1.1	.04	.03	.05	.00	.00
AC-FT	2.1	4.6	5.6	9.3	9.0	5210	267	72	3660	3720	1.1	.00

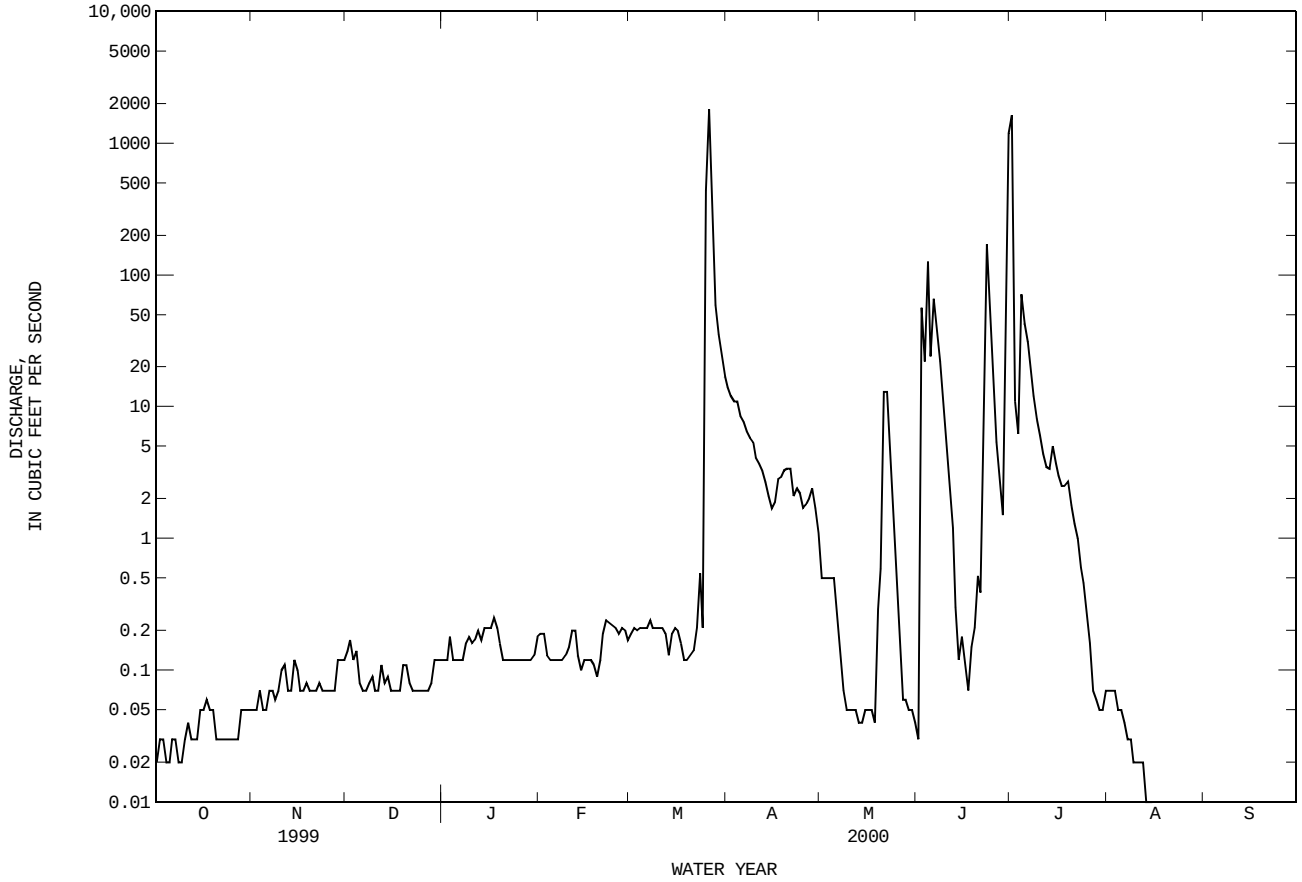
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000z, BY WATER YEAR (WY)

MEAN	133	36.9	41.9	23.7	58.1	40.8	69.2	262	187	88.9	53.2	167
MAX	1438	516	683	244	1370	389	1159	4694	1761	1190	496	3978
(WY)	1987	1975	1992	1992	1992	1987	1957	1957	1935	1938	1940	1932
MIN	.000	.078	.090	.032	.046	.010	.017	1.16	1.28	.035	.000	.000
(WY)	1953	2000	1955	1957	1954	1955	1955	2000	1998	1952	1931	1956

08084000 CLEAR FORK BRAZOS RIVER AT NUGENT, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000z	
ANNUAL TOTAL	3086.60		6529.51			
ANNUAL MEAN	8.46		17.8		96.9	
HIGHEST ANNUAL MEAN					713	1932
LOWEST ANNUAL MEAN					6.45	1998
HIGHEST DAILY MEAN	589	Apr 15	1800	Mar 26	30800	Sep 8 1932
LOWEST DAILY MEAN	.01	Jul 31	.00	Aug 17	.00	Jul 27 1930
ANNUAL SEVEN-DAY MINIMUM	.01	Aug 11	.00	Aug 17	.00	Jul 27 1930
INSTANTANEOUS PEAK FLOW			2490	Jul 1	c47000	Sep 8 1932
INSTANTANEOUS PEAK STAGE			9.19	Jul 1	p27.05	Sep 8 1932
ANNUAL RUNOFF (AC-FT)	6120		12950		70200	
10 PERCENT EXCEEDS	6.3		6.9		119	
50 PERCENT EXCEEDS	.76		.12		12	
90 PERCENT EXCEEDS	.02		.00		.55	

z Period of regulated streamflow.
c From rating curve extended above 25,000 ft^3/s.
p Observed.



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 mi southeast of Haskell, and 22.3 mi upstream from mouth.

DRAINAGE AREA.--368 mi^2.

PERIOD OF RECORD.--Jul 1953 to Sep 1986, Feb 1999 to current year.
Water-quality records.--Chemical data: Aug 1965, Mar 1970 to Jul 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 Jun 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 Sep 1986 was based on sedimentation survey of 1966. 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 since first appreciable storage in Jun 1954, 7,120 acre-ft, Sep 30, 2000, elevation, 1,401.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,940 acre-ft, Oct 1, elevation, 1,405.69 ft; minimum contents, 7,120 acre-ft, Sep 30, elevation, 1,401.29 ft.

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

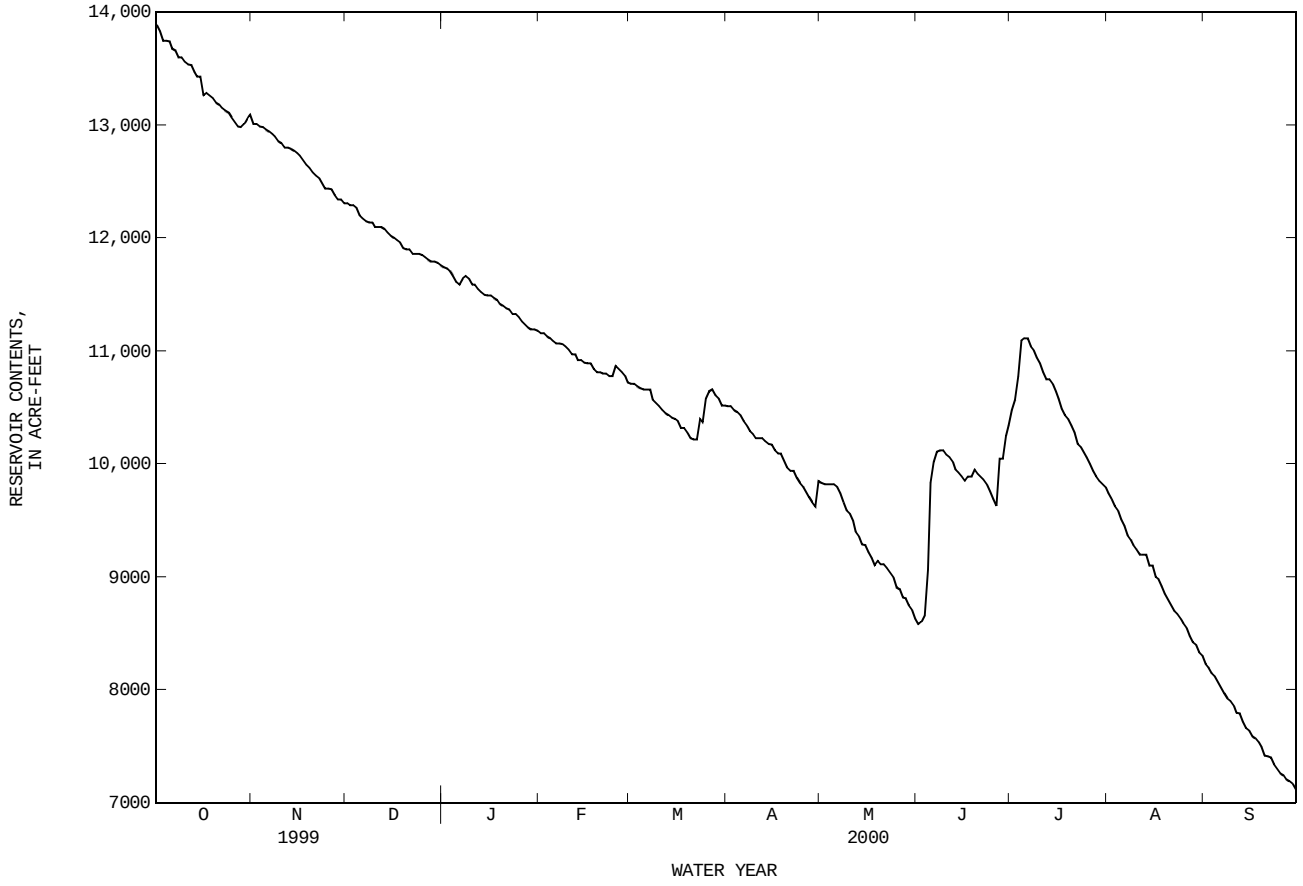
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13890	13010	12310	11740	11160	10710	10510	9830	8580	10480	9740	8230
2	13830	13010	12290	11730	11160	10710	10510	9820	8600	10570	9690	8200
3	13750	12990	12290	11710	11130	10690	10480	9820	8660	10770	9630	8150
4	13750	12980	12270	11660	11110	10670	10460	9820	9060	11090	9590	8120
5	13740	12960	12200	11610	11090	10660	10430	9820	9830	11110	9510	8070
6	13680	12940	12170	11590	11070	10660	10380	9800	10020	11110	9450	8020
7	13660	12920	12150	11640	11070	10660	10340	9740	10110	11040	9370	7970
8	13600	12900	12140	11660	11060	10570	10290	9660	10120	11010	9330	7920
9	13600	12860	12140	11640	11040	10540	10260	9590	10120	10940	9280	7900
10	13560	12840	12100	11590	11010	10510	10230	9560	10080	10890	9240	7860
11	13540	12800	12100	11590	10970	10480	10230	9500	10060	10810	9200	7800
12	13530	12800	12100	11550	10970	10450	10230	9400	10020	10750	e9200	7790
13	13470	12790	12080	11520	10920	10430	10200	9360	9950	10750	e9200	7720
14	13430	12770	12050	11500	10920	10410	10180	9290	9920	10710	e9100	7660
15	13430	12750	12020	11490	10900	10400	10170	9280	9890	10640	e9100	7640
16	13260	12730	12000	11490	10890	10380	10120	9220	9850	10580	e9000	7590
17	13280	12690	11980	11470	10890	10320	10090	9170	9890	10490	8980	7570
18	13260	12650	11960	11450	10840	10320	10090	9100	9890	10430	8920	7540
19	13240	12620	11910	11420	10810	10280	10030	9140	9950	10400	8850	7500
20	13200	12580	11900	11400	10810	10230	9970	9110	9910	10340	8800	7420
21	13180	12550	11900	11380	10800	10220	9940	9110	9890	10280	8750	7410
22	13150	12530	11860	11370	10800	10220	9940	9080	9860	10180	8700	7400
23	13130	12480	11860	11330	10780	10400	9880	9040	9820	10150	8670	7340
24	13110	12440	11860	11330	10780	10370	9830	9000	9760	10110	8630	7300
25	13070	12440	11850	11300	10870	10580	9800	8910	9690	10060	8590	7260
26	13030	12430	11830	11260	10840	10640	9760	8890	9630	10000	8550	7240
27	12990	12380	11810	11230	10810	10660	9710	8820	10050	9940	8480	7210
28	12980	12340	11790	11210	10780	10610	9660	8810	10050	9890	8420	7190
29	13010	12340	11790	11190	10720	10580	9620	8750	10250	9850	8400	7170
30	13050	12310	11780	11190	---	10520	9850	8710	10340	9820	8330	7120
31	13090	---	11760	11180	---	10520	---	8630	---	9790	8300	---
MAX	13890	13010	12310	11740	11160	10710	10510	9830	10340	11110	9740	8230
MIN	12980	12310	11760	11180	10720	10220	9620	8630	8580	9790	8300	7120
(+)	1405.24	1404.81	1404.49	1404.15	1403.87	1403.74	1403.30	1402.45	1403.62	1403.26	1402.21	1401.29
(@)	-840	-780	-550	-580	-460	-200	-670	-1220	+1710	-550	-1490	-1180

WTR YR 2000 MAX 13890 MIN 7120 (@) -6810

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

LOCATION.--Lat 32°55′51", long 99°38′32", Jones County, Hydrologic Unit 12060103, near right bank at downstream side of bridge on Farm Road 142, 9.0 mi east of Stamford, and 19.4 mi upstream from Paint Creek.

DRAINAGE AREA.--478 mi^2.

PERIOD OF RECORD.--Oct 1962 to current year.
Water-quality records.--Chemical data: Oct 1962 to Sep 1979. Specific conductance: Oct 1962 to Sep 1979. Water temperature: Oct 1962 to Sep 1979.

REVISED RECORDS.--WSP 2122: 1965. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,470 ft above sea level, from topographic map. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, 29.6 ft, present datum, on Jun 10, 1962, from floodmark; second highest flood in Jul 1961 (stage unknown); third highest flood in May 1957 (stage unknown) was about equal to flood on Jun 24, 1915; flood of Sep 1962 reached a stage of 28.1 ft, present datum, from information by local residents. Another large flood is reported to have occurred in Jun 1909.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 3	1945	1,320	16.28	Jul 3	0230	476	11.27
Jun 30	0030	1,390	16.67				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.45	.37	.21	.13	.07	2.2	.05	.04	71	.02	.02
2	.17	.28	.37	.22	.11	.09	1.8	.05	118	116	.02	.02
3	.16	.28	.31	.24	.13	.12	1.4	.04	965	246	.02	.02
4	.04	.27	.51	.19	.08	.16	.98	.05	352	35	.02	.02
5	.04	.22	.46	.20	.08	.16	.69	.05	92	23	.02	.02
6	.05	.17	.43	.20	.13	.17	.57	.04	53	16	.02	.02
7	.04	.14	.37	.28	.15	.15	.36	.04	22	11	.02	.02
8	.15	.13	.48	.37	.14	.18	2.3	.04	12	5.9	.01	.02
9	.18	.13	.59	.26	.16	.16	1.2	.06	7.1	2.4	.01	.02
10	.19	.18	.58	.24	.17	.15	.95	.07	3.7	.72	.02	.02
11	.24	.16	.41	.22	.13	.18	.77	.07	2.2	.10	.02	.02
12	.20	.17	.42	.24	.19	.26	.70	.10	.81	.05	.02	.02
13	.15	.18	.34	.23	.22	.20	.60	.12	.21	.04	.01	.03
14	.08	.13	.40	.20	.20	.15	.53	.08	.05	.03	.01	.03
15	.14	.12	.51	.20	.16	.21	.18	.11	.06	.03	.01	.03
16	.17	.12	.50	.23	.16	.18	.17	.09	.04	.02	.02	.03
17	.18	.09	.49	.25	.20	.21	.15	.08	.04	.02	.02	.02
18	.28	.07	.51	.24	.17	.25	.16	.10	.04	.02	.01	.02
19	.27	.07	.55	.25	.17	.27	.12	.15	2.2	.02	.02	.03
20	.07	.07	.43	.21	.19	.30	.11	.22	7.4	.02	.02	.02
21	.09	.08	.41	.21	.22	.23	.10	.39	4.3	.02	.02	.03
22	.14	.27	.41	.23	.13	.23	.11	.96	3.0	.02	.02	.04
23	.21	.36	.43	.24	.04	.76	.07	.22	.44	.02	.02	.04
24	.20	.34	.36	.19	.05	.16	.09	.13	.05	.03	.02	.04
25	.20	.36	.31	.12	.05	14	.06	.05	.04	.02	.02	.04
26	.22	.36	.30	.12	.05	33	.04	.05	.03	.02	.02	.04
27	.12	.31	.33	.14	.05	23	.04	.05	.03	.02	.02	.04
28	.11	.31	.30	.13	.05	14	.04	.05	2.3	.02	.02	.04
29	.12	.33	.22	.12	.05	8.4	.04	.05	385	.02	.02	.04
30	1.1	.34	.21	.10	---	5.0	.06	.04	771	.02	.02	.04
31	.63	---	.20	.12	---	3.1	---	.04	---	.02	.02	---
TOTAL	6.13	6.49	12.51	6.40	3.76	105.50	16.59	3.64	2804.08	527.60	0.56	0.84
MEAN	.20	.22	.40	.21	.13	3.40	.55	.12	93.5	17.0	.018	.028
MAX	1.1	.45	.59	.37	.22	33	2.3	.96	965	246	.02	.04
MIN	.04	.07	.20	.10	.04	.07	.04	.04	.03	.02	.01	.02
AC-FT	12	13	25	13	7.5	209	33	7.2	5560	1050	1.1	1.7
CFSM	.00	.00	.00	.00	.00	.01	.00	.00	.20	.04	.00	.00

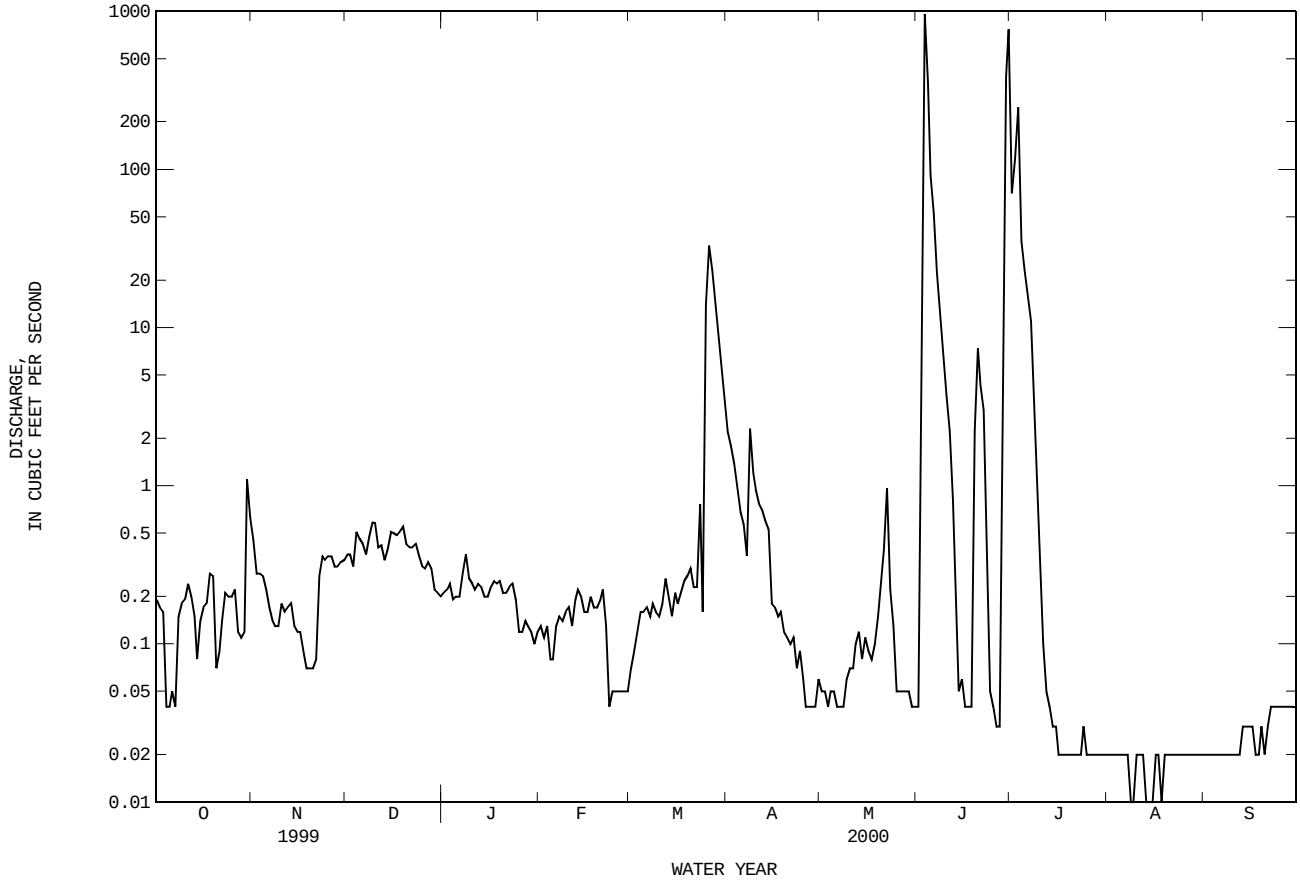
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	39.2	14.3	11.6	10.7	34.5	13.7	20.3	75.9	72.7	19.3	58.0	49.5
MAX	481	229	169	84.0	750	132	174	741	400	234	930	575
(WY)	1987	1973	1992	1968	1992	1973	1985	1982	1991	1992	1971	1980
MIN	.002	.11	.10	.081	.13	.092	.25	.12	.15	.000	.000	.017
(WY)	1969	1971	1965	1965	2000	1966	1967	2000	1976	1964	1965	1968

08084800 CALIFORNIA CREEK NEAR STAMFORD, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	5957.12		3494.10			
ANNUAL MEAN	16.3		9.55		34.9	
HIGHEST ANNUAL MEAN					156	1992
LOWEST ANNUAL MEAN					1.95	1964
HIGHEST DAILY MEAN	1400	Jun 12	965	Jun 3	20400	Aug 4 1978
LOWEST DAILY MEAN	.02	Aug 9	.01	Aug 8	.00	Sep 11 1963
ANNUAL SEVEN-DAY MINIMUM	.02	Aug 13	.01	Aug 8	.00	May 17 1964
INSTANTANEOUS PEAK FLOW			1390	Jun 30	c40000	Aug 4 1978
INSTANTANEOUS PEAK STAGE			16.67	Jun 30	a31.00	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	11820		6930		25300	
ANNUAL RUNOFF (CFSM)	.034		.020		.073	
10 PERCENT EXCEEDS	14		1.5		28	
50 PERCENT EXCEEDS	.31		.15		2.4	
90 PERCENT EXCEEDS	.05		.02		.09	

c From rating curve extended above 3,310 ft^3/s on basis of field discharge estimates of 7,420 ft^3/s and 40,000 ft^3/s.
a From floodmark.



08085500 CLEAR FORK BRAZOS RIVER AT FORT GRIFFIN, TX

LOCATION.--Lat 32°56′04", long 99°13′27", Shackelford County, Hydrologic Unit 12060104, on right bank just downstream from pier of bridge on old Fort Griffin-Throckmorton Road, 0.4 mi northeast of Fort Griffin, 1.0 mi upstream from bridge on U.S. Highway 283, 1.7 mi upstream from Mill Creek, and 74.6 mi upstream from mouth.

DRAINAGE AREA.--3,988 mi^2.

PERIOD OF RECORD.--Dec 1923 to current year.
Water-quality records.--Chemical data: Nov 1949 to Sep 1951, Nov 1967 to Sep 1979, Nov 1981 to Sep 1984. Suspended sediment discharge: Nov 1949 to Sep 1951. Specific conductance: Nov 1949 to Sep 1951, Nov 1967 to Sep 1979, Oct 1981 to Sep 1984. Water temperature: Nov 1949 to Sep 1951, Nov 1967 to Sep 1979, Oct 1981 to Sep 1984.

REVISED RECORDS.--WSP 1392: 1949. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,174.09 ft above sea level. Prior to Jun 23, 1932, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since water year 1939, at least 10% of contributing drainage area has been regulated by Fort Phantom Hill Reservoir (station 08083500, conservation pool storage 70,030 acre-ft). There are diversions upstream from station for irrigation, municipal supply, and for oil field operations. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1925-38) prior to completion of Fort Phantom Hill Reservoir, 303 ft^3/s (219,500 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1925-38).--Maximum discharge, 33,600 ft^3/s Sep 10, 1932 (gage height, 35.09 ft) from rating curve extended above 31,500 ft^3/s; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Sep 1900 reached a stage of 38.0 ft, from information by local resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	3.8	14	6.6	8.0	59	25	1.6	1380	.00	.00
2	.00	.00	4.5	13	7.4	11	50	23	1.3	1820	.00	.00
3	.00	.00	6.7	12	9.9	12	42	16	65	452	.00	.00
4	.00	.00	5.3	12	11	8.9	35	15	791	472	.00	.00
5	.00	.00	4.3	16	9.9	6.2	30	13	589	194	.00	.00
6	.00	.00	3.5	16	9.8	4.4	28	13	308	105	.00	.00
7	.00	.00	2.7	16	11	3.4	25	9.3	192	98	.00	.00
8	.00	.00	2.8	16	10	3.1	24	10	100	70	.00	.00
9	.00	.00	2.9	15	9.9	12	23	10	101	52	.00	.00
10	.00	.00	3.5	14	9.5	14	20	3.4	69	35	.00	.00
11	.00	.00	6.8	12	9.2	11	18	1.3	43	24	.00	.00
12	.00	.00	8.3	12	8.9	8.9	19	.81	32	17	.00	.00
13	.00	.00	7.0	12	7.3	9.2	25	.19	23	12	.00	.00
14	.00	.00	6.0	13	6.6	8.5	22	.01	17	8.8	.00	.00
15	.00	.00	8.6	14	5.7	7.1	17	.00	12	6.0	.00	.00
16	.00	.00	8.7	13	7.2	6.4	14	.00	9.0	4.3	.00	.00
17	.00	.00	8.2	12	7.7	6.1	12	.00	8.2	3.0	.00	.00
18	.00	.04	7.6	13	7.2	5.8	11	.00	7.5	2.2	.00	.00
19	.00	2.8	7.3	13	7.1	5.8	11	.00	6.1	1.6	.00	.00
20	.00	3.2	8.4	12	7.8	5.8	9.6	.00	6.4	1.2	.00	.00
21	.00	3.3	9.6	13	8.5	6.2	8.1	.00	6.3	.70	.00	.00
22	.00	3.3	8.5	14	8.7	6.9	5.9	.00	6.4	.42	.00	.00
23	.00	3.1	8.9	12	9.6	11	4.6	.00	4.7	.21	.00	.00
24	.00	2.7	8.6	9.6	8.9	9.8	3.7	.00	3.5	.09	.00	.00
25	.00	2.4	9.4	9.0	8.7	11	2.9	.00	2.8	.01	.00	.00
26	.00	3.1	9.0	8.7	7.2	13	2.2	.00	58	.00	.00	.00
27	.00	4.3	8.4	9.1	5.6	955	1.7	.00	48	.00	.00	.00
28	.00	3.8	9.3	8.9	4.6	772	1.6	2.4	30	.00	.00	.00
29	.00	3.3	11	9.3	5.8	164	1.3	6.8	25	.00	.00	.00
30	.00	3.9	17	8.1	---	105	21	4.0	212	.00	.00	.00
31	.00	---	19	7.0	---	79	---	2.7	---	.00	.00	---
TOTAL	0.00	39.24	235.6	378.7	237.3	2290.5	547.6	155.91	2778.8	4759.53	0.00	0.00
MEAN	.000	1.31	7.60	12.2	8.18	73.9	18.3	5.03	92.6	154	.000	.000
MAX	.00	4.3	19	16	11	955	59	25	791	1820	.00	.00
MIN	.00	.00	2.7	7.0	4.6	3.1	1.3	.00	1.3	.00	.00	.00
AC-FT	.00	78	467	751	471	4540	1090	309	5510	9440	.00	.00

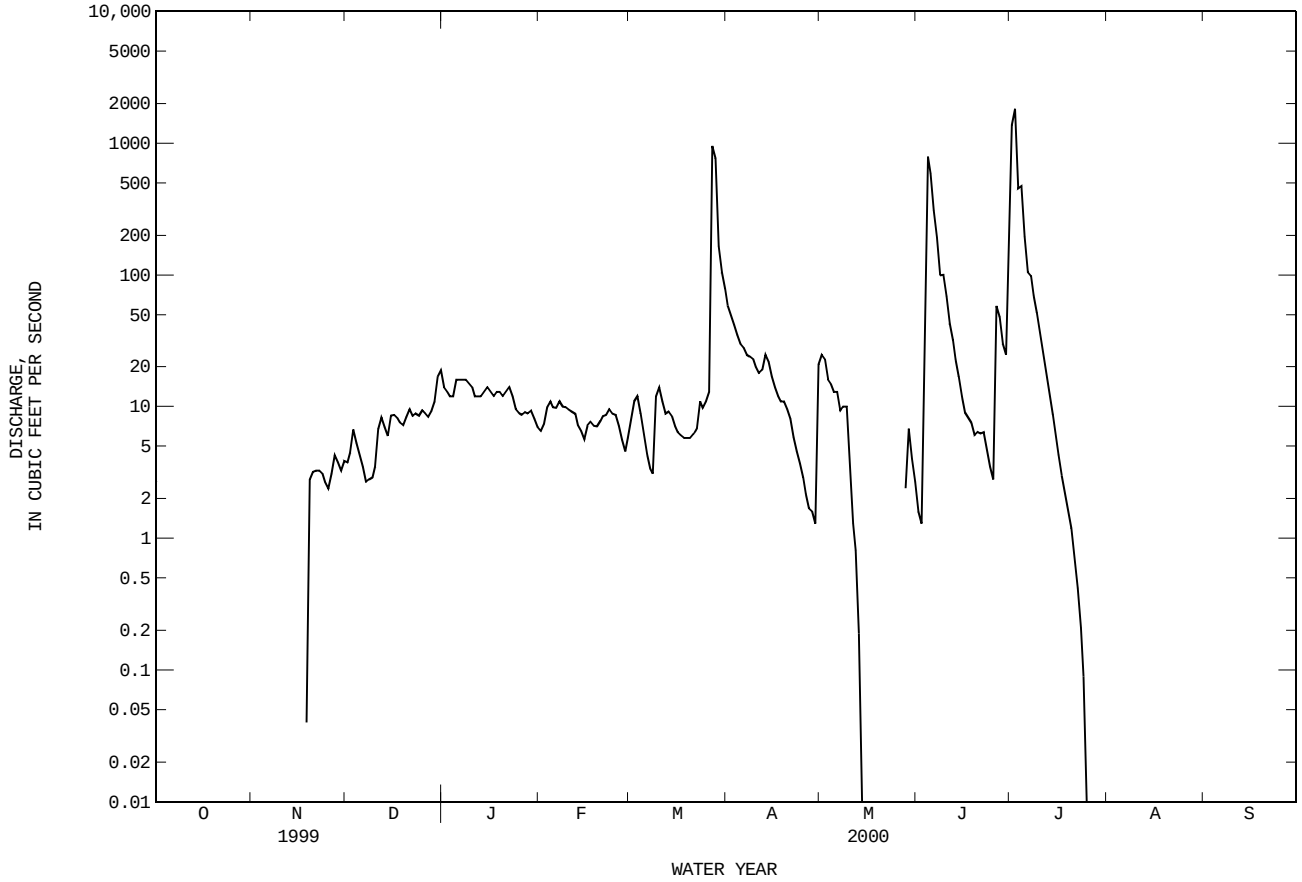
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000z, BY WATER YEAR (WY)

MEAN	255	77.7	76.3	60.3	157	93.2	172	532	419	158	200	240
MAX	2866	1010	1593	689	4268	1066	3098	7312	2205	1417	6071	1997
(WY)	1942	1975	1992	1992	1992	1992	1957	1957	1957	1953	1978	1962
MIN	.000	.000	.000	.000	.000	.000	.000	4.90	.078	.000	.000	.000
(WY)	1944	1944	1944	1950	1950	1950	1952	1960	1974	1952	1952	1943

08085500 CLEAR FORK BRAZOS RIVER AT FORT GRIFFIN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000z	
ANNUAL TOTAL	14780.53		11423.18			
ANNUAL MEAN	40.5		31.2		203	
HIGHEST ANNUAL MEAN					1177	1957
LOWEST ANNUAL MEAN					8.78	1952
HIGHEST DAILY MEAN	1710	Jun 13	1820	Jul 2	72800	Aug 4 1978
LOWEST DAILY MEAN	.00	Aug 1	.00	Oct 1	.00	May 11 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 1	.00	Oct 1	.00	Sep 12 1939
INSTANTANEOUS PEAK FLOW			2220	Jul 2	c149000	Aug 4 1978
INSTANTANEOUS PEAK STAGE			8.14	Jul 2	a38.88	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	29320		22660		147400	
10 PERCENT EXCEEDS	74		25		270	
50 PERCENT EXCEEDS	9.2		5.0		25	
90 PERCENT EXCEEDS	.00		.00		.00	

z Period of regulated streamflow.
c From rating curve extended above 31,500 ft^3/s on basis of contracted opening measurement of 149,000 ft^3/s.
a From floodmark.



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 mi^2.

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 Jun 12, 1968, water-stage recorder at site 2.1 mi downstream at datum 7.63 ft lower. Satellite telemeter at station.

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

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

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	13	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	105	2.6	.00	.00
4	.00	.00	5.5	.00	.00	.00	.00	.00	208	2.3	.00	.00
5	.00	.00	2.0	.00	.00	.00	.00	.00	31	2.5	.00	.00
6	.00	.00	1.2	.00	.00	.00	.00	.00	15	6.6	.00	.00
7	.00	.00	.84	.00	.00	.00	.00	.00	13	4.8	.00	.00
8	.00	.00	.59	.00	.00	.00	.00	.00	7.7	2.6	.00	.00
9	.00	.00	.48	.00	.00	.00	.00	.00	5.5	1.5	.00	.00
10	.00	.00	.30	.00	.00	.00	.00	.00	4.6	1.1	.00	.00
11	.00	.00	.14	.00	.00	.00	.00	.00	4.3	.83	.00	.00
12	.00	.00	.08	.00	.00	.00	.00	.00	4.0	.46	.00	.00
13	.00	.00	.02	.00	.00	.00	.00	.00	3.3	.34	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	2.7	1.4	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	3.3	11	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	7.7	6.0	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	7.1	3.7	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	6.8	2.2	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	6.4	1.4	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	5.4	1.0	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	4.2	.59	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	3.4	.15	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	2.8	.02	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	2.8	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	2.5	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	2.3	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	2.5	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	2.7	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	114	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	71	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	11.15	0.00	0.00	0.00	0.00	0.00	649.00	71.09	0.00	0.00
MEAN	.000	.000	.36	.000	.000	.000	.000	.000	21.6	2.29	.000	.000
MAX	.00	.00	5.5	.00	.00	.00	.00	.00	208	13	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	22	.00	.00	.00	.00	.00	1290	141	.00	.00
CFSM	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
IN.	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00

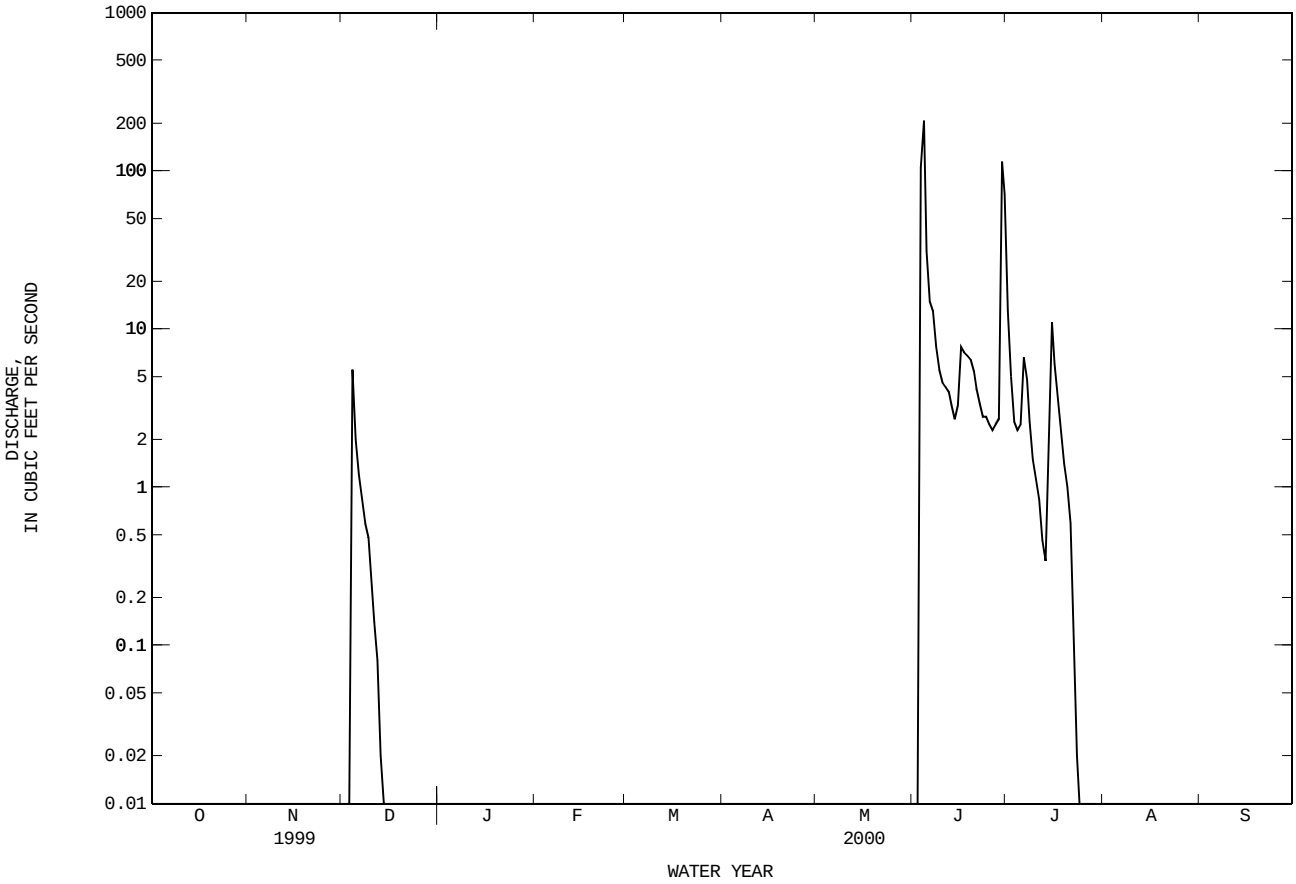
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	90.4	16.0	46.8	57.3	78.5	49.9	52.3	129	63.1	6.46	111	73.2
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

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	4048.49		731.24			
ANNUAL MEAN	11.1		2.00		64.6	
HIGHEST ANNUAL MEAN					303	1992
LOWEST ANNUAL MEAN					.49	1984
HIGHEST DAILY MEAN	1810	Jun 11	208	Jun 4	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
INSTANTANEOUS PEAK FLOW			1330	Jun 3	c330000	Aug 4 1978
INSTANTANEOUS PEAK STAGE			8.52	Jun 3	a41.41	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	8030		1450		46780	
ANNUAL RUNOFF (CFSM)	.018		.003		.11	
ANNUAL RUNOFF (INCHES)	.25		.04		1.43	
10 PERCENT EXCEEDS	4.7		2.5		46	
50 PERCENT EXCEEDS	.00		.00		1.2	
90 PERCENT EXCEEDS	.00		.00		.00	

a From floodmark.
c From rating curve extended above 110 ft^3/s on basis of step-backwater method and computation of flow-through-culverts, contracted-openings, and flow-over-road determination of 330,000 ft^3/s at site 4.5 mi downstream.



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 Jul 1980 (local observer), Mar 1982 to current year.

INSTRUMENTATION.--Specific conductance recorder since Dec 1970. Water-temperature recorder since Mar 1982.

REMARKS.--Records good. Interruptions in the specific conductance and water temperature values were due to no flow. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 3%, chloride is 12%, sulfate is 48% 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, Feb 15, 21, 1978; minimum measured, 180 microsiemens, Oct 27, 1984, May 13, 1985 and Oct 6, 1986; minimum estimated, 129 microsiemens, Aug 4, 1978.
WATER TEMPERATURE: Maximum, 37.5°C, Jul 20, 1986; minimum, 0.0°C, on several days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,580 microsiemens, Jun 3; minimum, 367 microsiemens, Jun 4.
WATER TEMPERATURE: Maximum, 37.3°C, Jul 13; minimum, 6.1°C, Dec 13.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	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)
JUN									
07...	1005	13	486	24.0	130	57	37	9.0	37
14...	0935	2.6	636	25.2	150	55	43	11	58

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
JUN								
07...	1	4.4	73	47	68	.16	5.9	252
14...	2	4.4	98	52	98	.24	6.6	332

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

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	0	--	--	--	--	--	--	--	--
NOV.	1999	0	--	--	--	--	--	--	--	--
DEC.	1999	11.15	1530	840	25.3	320	9.8	130	3.9	370
JAN.	2000	0	--	--	--	--	--	--	--	--
FEB.	2000	0	--	--	--	--	--	--	--	--
MAR.	2000	0	--	--	--	--	--	--	--	--
APR.	2000	0	--	--	--	--	--	--	--	--
MAY	2000	0	--	--	--	--	--	--	--	--
JUNE	2000	649	712	386	677	140	252	59	104	180
JULY	2000	71.09	536	289	55.4	110	20.2	44	8.5	130
AUG.	2000	0	--	--	--	--	--	--	--	--
SEPT	2000	0	--	--	--	--	--	--	--	--
TOTAL		731.24	**	**	758	**	282	**	116	**
WTD.AVG.		2.0	708	384	**	140	**	59	**	180

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	1740	1380	1520	---	---	---
5	---	---	---	---	---	---	1560	1510	1530	---	---	---
6	---	---	---	---	---	---	1550	1520	1530	---	---	---
7	---	---	---	---	---	---	1550	1530	1540	---	---	---
8	---	---	---	---	---	---	1550	1530	1530	---	---	---
9	---	---	---	---	---	---	1600	1520	1570	---	---	---
10	---	---	---	---	---	---	1580	1520	1540	---	---	---
11	---	---	---	---	---	---	1580	1530	1550	---	---	---
12	---	---	---	---	---	---	1590	1550	1570	---	---	---
13	---	---	---	---	---	---	1580	1540	1550	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
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25	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	617	495	537	---	---	---	---	---	---
2	---	---	---	528	496	512	---	---	---	---	---	---
3	2580	838	1420	530	505	519	---	---	---	---	---	---
4	1300	367	484	540	521	531	---	---	---	---	---	---
5	615	535	583	553	528	541	---	---	---	---	---	---
6	543	479	522	563	509	536	---	---	---	---	---	---
7	495	468	479	529	515	520	---	---	---	---	---	---
8	523	458	488	548	526	535	---	---	---	---	---	---
9	545	519	537	573	542	554	---	---	---	---	---	---
10	568	545	559	600	556	572	---	---	---	---	---	---
11	593	568	585	629	574	597	---	---	---	---	---	---
12	613	586	600	628	581	601	---	---	---	---	---	---
13	644	605	628	611	578	590	---	---	---	---	---	---
14	761	612	657	767	586	629	---	---	---	---	---	---
15	761	627	688	717	496	558	---	---	---	---	---	---
16	745	570	622	514	496	507	---	---	---	---	---	---
17	578	563	567	515	504	512	---	---	---	---	---	---
18	625	564	579	519	509	515	---	---	---	---	---	---
19	585	572	579	531	508	523	---	---	---	---	---	---
20	599	584	590	551	506	533	---	---	---	---	---	---
21	609	583	600	564	521	544	---	---	---	---	---	---
22	622	597	611	588	532	558	---	---	---	---	---	---
23	644	610	624	604	545	570	---	---	---	---	---	---
24	660	624	639	---	---	---	---	---	---	---	---	---
25	667	625	644	---	---	---	---	---	---	---	---	---
26	707	641	662	---	---	---	---	---	---	---	---	---
27	738	657	682	---	---	---	---	---	---	---	---	---
28	729	668	699	---	---	---	---	---	---	---	---	---
29	782	493	682	---	---	---	---	---	---	---	---	---
30	745	587	674	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	15.4	11.6	14.0	---	---	---
5	---	---	---	---	---	---	13.5	9.8	11.7	---	---	---
6	---	---	---	---	---	---	11.3	8.5	9.8	---	---	---
7	---	---	---	---	---	---	11.4	8.2	9.7	---	---	---
8	---	---	---	---	---	---	11.6	9.4	10.5	---	---	---
9	---	---	---	---	---	---	11.9	8.9	10.6	---	---	---
10	---	---	---	---	---	---	11.8	7.1	9.3	---	---	---
11	---	---	---	---	---	---	10.1	8.2	9.3	---	---	---
12	---	---	---	---	---	---	10.0	7.9	9.5	---	---	---
13	---	---	---	---	---	---	10.5	6.1	8.1	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	---	---	---	---	---	---	---	---	---
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25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.9	24.9	27.0	---	---	---	---	---	---
2	---	---	---	31.1	26.0	28.2	---	---	---	---	---	---
3	26.6	23.6	26.5	31.7	26.8	29.1	---	---	---	---	---	---
4	24.0	22.9	23.4	30.8	26.6	28.7	---	---	---	---	---	---
5	25.7	23.6	24.2	31.2	26.7	28.8	---	---	---	---	---	---
6	28.7	22.8	25.0	32.8	27.2	29.8	---	---	---	---	---	---
7	28.9	23.6	25.9	32.6	28.1	30.1	---	---	---	---	---	---
8	27.3	23.7	25.5	32.7	28.1	30.2	---	---	---	---	---	---
9	26.9	24.5	25.3	32.1	27.8	29.8	---	---	---	---	---	---
10	26.9	23.9	25.3	31.1	27.1	29.3	---	---	---	---	---	---
11	26.3	24.6	25.4	31.3	27.4	29.5	---	---	---	---	---	---
12	28.0	24.5	25.8	32.3	28.4	30.3	---	---	---	---	---	---
13	27.3	24.8	26.2	37.3	28.5	31.7	---	---	---	---	---	---
14	28.0	24.3	26.0	37.2	28.8	32.2	---	---	---	---	---	---
15	31.0	24.6	26.9	35.6	29.8	32.5	---	---	---	---	---	---
16	28.9	26.5	27.6	33.8	30.4	32.0	---	---	---	---	---	---
17	29.2	25.3	27.1	32.0	28.3	30.1	---	---	---	---	---	---
18	26.3	24.1	25.1	32.9	28.0	30.2	---	---	---	---	---	---
19	26.6	24.5	25.5	32.9	28.1	30.5	---	---	---	---	---	---
20	27.5	24.8	26.1	33.6	28.1	30.7	---	---	---	---	---	---
21	29.2	25.5	27.2	35.5	28.3	31.4	---	---	---	---	---	---
22	29.4	26.6	28.0	34.7	28.5	30.9	---	---	---	---	---	---
23	28.8	26.7	27.9	35.1	28.3	31.5	---	---	---	---	---	---
24	28.9	26.0	27.6	---	---	---	---	---	---	---	---	---
25	29.2	26.3	27.9	---	---	---	---	---	---	---	---	---
26	31.8	27.0	28.5	---	---	---	---	---	---	---	---	---
27	30.0	27.3	28.1	---	---	---	---	---	---	---	---	---
28	33.8	26.4	29.1	---	---	---	---	---	---	---	---	---
29	30.3	25.7	27.4	---	---	---	---	---	---	---	---	---
30	28.8	24.7	25.9	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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 mi^2.

PERIOD OF RECORD.--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 good. 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 was completed Sep 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, Jun 26, 1999, elevation, 1,511.14 ft; minimum contents, 12,130 acre-ft, Sep 30, 2000, elevation, 1,502.60 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 18,080 acre-ft, Jun 26, elevation, 1,511.14 ft; minimum contents, 15,890 acre-ft, Sep 30, elevation, 1,508.32 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 15,880 acre-ft, Oct 1, elevation, 1,508.31 ft; minimum contents, 12,130 acre-ft, Sep 30, elevation, 1,502.60 ft.

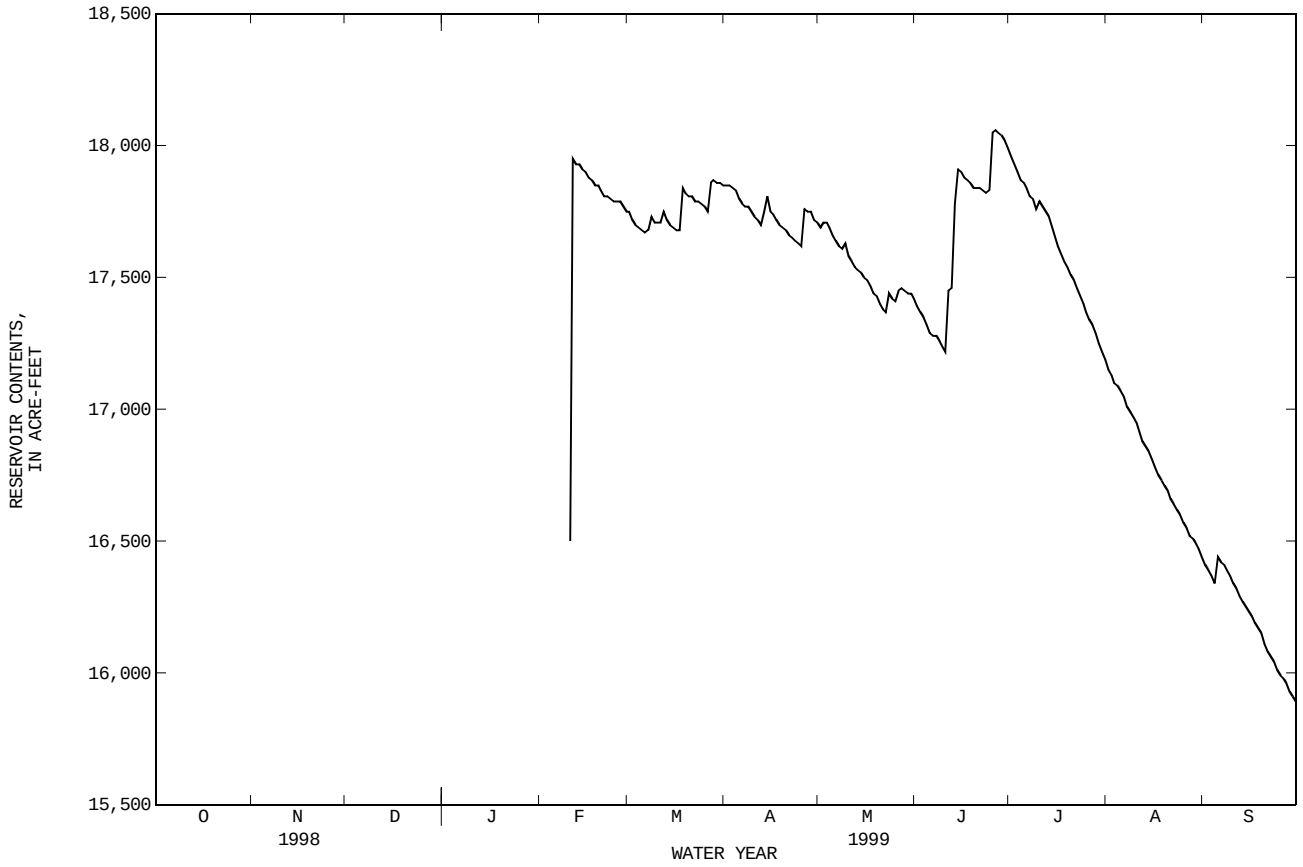
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	17750	17850	17690	17390	17960	17150	16410
2	---	---	---	---	---	17720	17850	17710	17370	17930	17130	16390
3	---	---	---	---	---	17700	17840	17710	17350	17900	17100	16370
4	---	---	---	---	---	17690	17830	17690	17320	17870	17090	16340
5	---	---	---	---	---	17680	17800	17660	17290	17860	17070	16440
6	---	---	---	---	---	17670	17780	17640	17280	17840	17050	16420
7	---	---	---	---	---	17680	17770	17620	17280	17810	17010	16410
8	---	---	---	---	---	17730	17770	17610	17260	17800	16990	16390
9	---	---	---	---	---	17710	17750	17630	17240	17760	16970	16370
10	---	---	---	---	16500	17710	17730	17580	17220	17790	16950	16340
11	---	---	---	---	17950	17710	17720	17560	17450	17770	16910	16320
12	---	---	---	---	17930	17750	17700	17540	17460	17750	16880	16290
13	---	---	---	---	17930	17720	17750	17530	17780	17730	16860	16270
14	---	---	---	---	17910	17700	17810	17520	17910	17690	16840	16250
15	---	---	---	---	17900	17690	17750	17500	17900	17650	16810	16230
16	---	---	---	---	17880	17680	17740	17490	17880	17620	16780	16210
17	---	---	---	---	17870	17680	17720	17470	17870	17590	16750	16190
18	---	---	---	---	17850	17840	17700	17440	17860	17560	16730	16170
19	---	---	---	---	17850	17820	17690	17430	17840	17540	16710	16150
20	---	---	---	---	17830	17810	17680	17400	17840	17510	16690	16110
21	---	---	---	---	17810	17810	17660	17380	17840	17490	16660	16080
22	---	---	---	---	17810	17790	17650	17370	17830	17460	16640	16060
23	---	---	---	---	17800	17790	17640	17440	17820	17430	16620	16040
24	---	---	---	---	17790	17780	17630	17420	17830	17400	16600	16010
25	---	---	---	---	17790	17770	17620	17410	18050	17370	16570	15990
26	---	---	---	---	17790	17750	17760	17450	18060	17340	16550	15980
27	---	---	---	---	17770	17860	17750	17460	18050	17320	16520	15960
28	---	---	---	---	17750	17870	17750	17450	18040	17290	16510	15930
29	---	---	---	---	---	17860	17720	17440	18020	17250	16490	15910
30	---	---	---	---	---	17860	17710	17440	17990	17220	16470	15890
31	---	---	---	---	---	17850	---	17420	---	17190	16440	---
MAX	---	---	---	---	---	17870	17850	17710	18060	17960	17150	16440
MIN	---	---	---	---	---	17670	17620	17370	17220	17190	16440	15890
(+)						1510.87	1510.71	1510.37	1511.03	1510.10	1509.08	1508.32
(@)						+100	-140	-290	+570	-800	-750	-550

WTR YR 1999 MAX 18060 MIN 15890

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

08086215 LAKE CISCO NEAR CISCO, TX--Continued



08086215 LAKE CISCO NEAR CISCO, TX--Continued

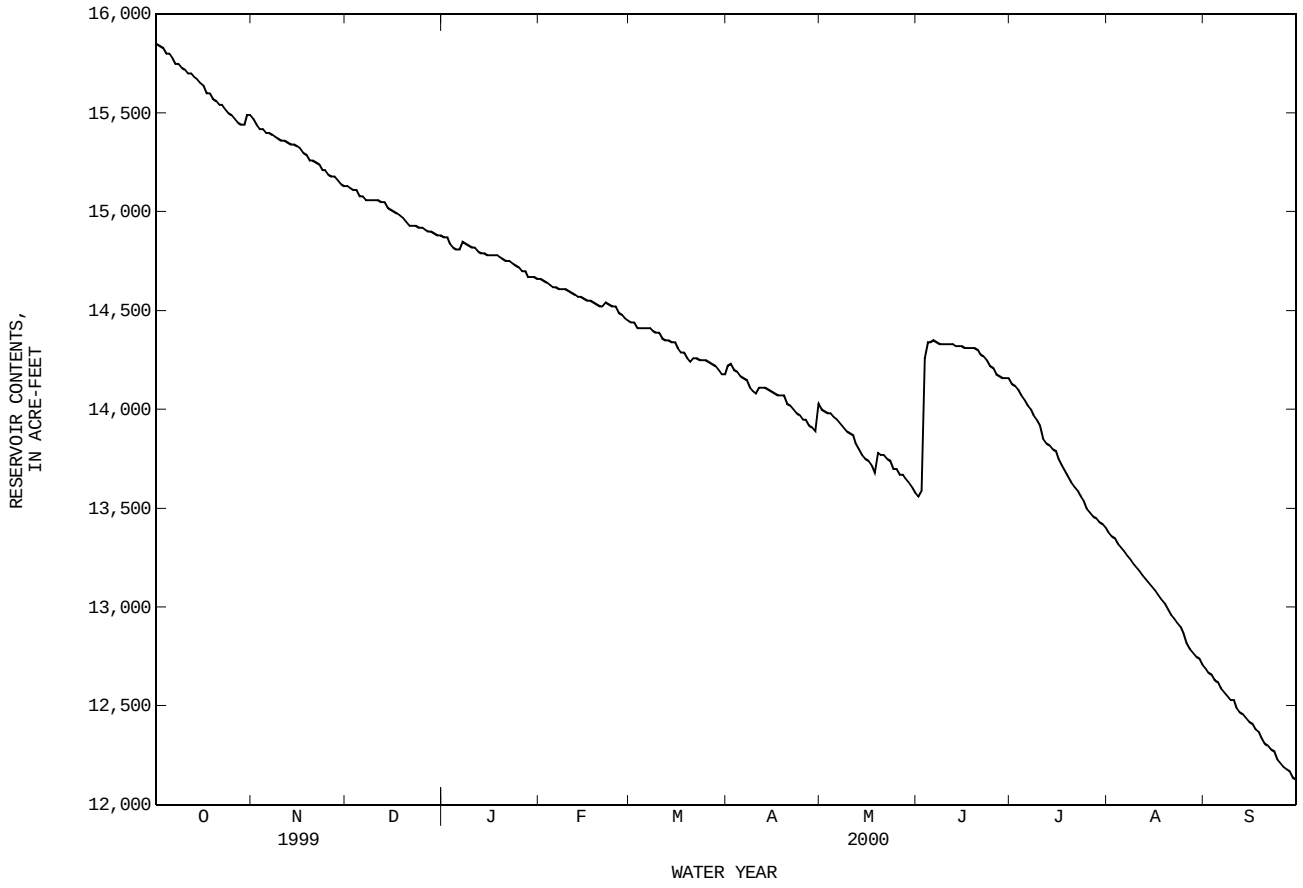
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15850	15470	15130	14870	14660	14440	14220	14000	13560	14130	13380	12690
2	15840	15440	15120	14870	14650	14440	14230	13990	13590	14120	13360	12670
3	15830	15420	15110	14840	14640	14410	14200	13980	14260	14100	13350	12660
4	15800	15420	15110	14820	14630	14410	14190	13980	14340	14070	13320	12630
5	15800	15400	15080	14810	14620	14410	14170	13960	14340	14050	13300	12620
6	15780	15400	15080	14810	14620	14410	14160	13950	14350	14020	13280	12590
7	15750	15390	15060	14850	14610	14410	14150	13930	14340	14000	13260	12570
8	15750	15380	15060	14840	14610	14400	14110	13910	14330	13970	13240	12550
9	15730	15370	15060	14830	14610	14390	14090	13890	14330	13950	13220	12530
10	15720	15360	15060	14820	14600	14390	14080	13880	14330	13920	13200	12530
11	15700	15360	15060	14820	14590	14360	14110	13870	14330	13850	13180	12490
12	15700	15350	15050	14800	14580	14350	14110	13830	14330	13830	13160	12470
13	15680	15340	15050	14790	14570	14350	14110	13800	14320	13820	13140	12460
14	15670	15340	15020	14790	14570	14340	14100	13770	14320	13800	13120	12440
15	15650	15330	15010	14780	14560	14340	14090	13750	14320	13790	13100	12420
16	15640	15320	15000	14780	14550	14310	14080	13740	14310	13750	13080	12410
17	15600	15300	14990	14780	14550	14290	14070	13720	14310	13720	13060	12380
18	15600	15290	14980	14780	14540	14290	14070	13680	14310	13690	13040	12370
19	15570	15260	14970	14770	14530	14260	14070	13780	14310	13660	13020	12340
20	15560	15260	14950	14760	14520	14240	14030	13770	14300	13630	12990	12310
21	15540	15250	14930	14750	14520	14260	14020	13770	14280	13610	12960	12300
22	15540	15240	14930	14750	14540	14260	14000	13750	14270	13590	12940	12280
23	15520	15210	14930	14740	14530	14250	13980	13740	14250	13560	12920	12270
24	15500	15210	14920	14730	14520	14250	13970	13700	14220	13540	12900	12230
25	15490	15190	14920	14720	14520	14250	13950	13700	14210	13500	12870	12210
26	15470	15180	14910	14700	14490	14240	13950	13670	14180	13480	12820	12190
27	15450	15180	14900	14700	14480	14230	13920	13670	14170	13460	12790	12180
28	15440	15160	14900	14670	14460	14220	13910	13650	14160	13450	12770	12170
29	15440	15140	14890	14670	14450	14200	13890	13630	14160	13430	12750	12140
30	15490	15130	14880	14670	---	14180	14030	13610	14160	13420	12740	12130
31	15490	---	14880	14660	---	14180	---	13580	---	13400	12710	---
MAX	15850	15470	15130	14870	14660	14440	14230	14000	14350	14130	13380	12690
MIN	15440	15130	14880	14660	14450	14180	13890	13580	13560	13400	12710	12130
(+)	1507.76	1507.27	1506.91	1506.61	1506.32	1505.94	1505.73	1505.11	1505.91	1504.82	1503.61	1502.60
(@)	-400	-360	-250	-220	-210	-270	-150	-450	+580	-760	-690	-580

WTR YR 2000 MAX 15850 MIN 12130 (@) -3760

(+) 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

LOCATION.--Lat 32°38'54", long 99°00'15", Stephens County, Hydrologic Unit 12060105, on left bank 600 ft downstream from Battle Creek, 1.6 mi upstream from bridge on Farm Road 576, 9.8 mi southwest of Breckenridge, and about 14.6 mi upstream from Hubbard Creek Dam.

DRAINAGE AREA.--280 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Feb 1962 to current year. Prior to Oct 1975, published as "near Breckenridge".

REVISED RECORDS.--WDR TX-76-2: Drainage area at former site.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,185.83 ft above sea level. Prior to Oct 1, 1975, at site 1.6 mi downstream at datum 7.41 ft lower. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--According to information from Texas Department of Transportation, the floods of May 16, 1949, Jul 20, 1953, and Apr 29, 1957, each reached a stage of 24.6 ft.

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

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.82	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.36	233	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.13	169	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.04	174	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	28	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	4.8	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.61	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65	609.54	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.085	20.3	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	1.3	233	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	5.3	1210	.00	.00	.00
CFSM	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00
IN.	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00

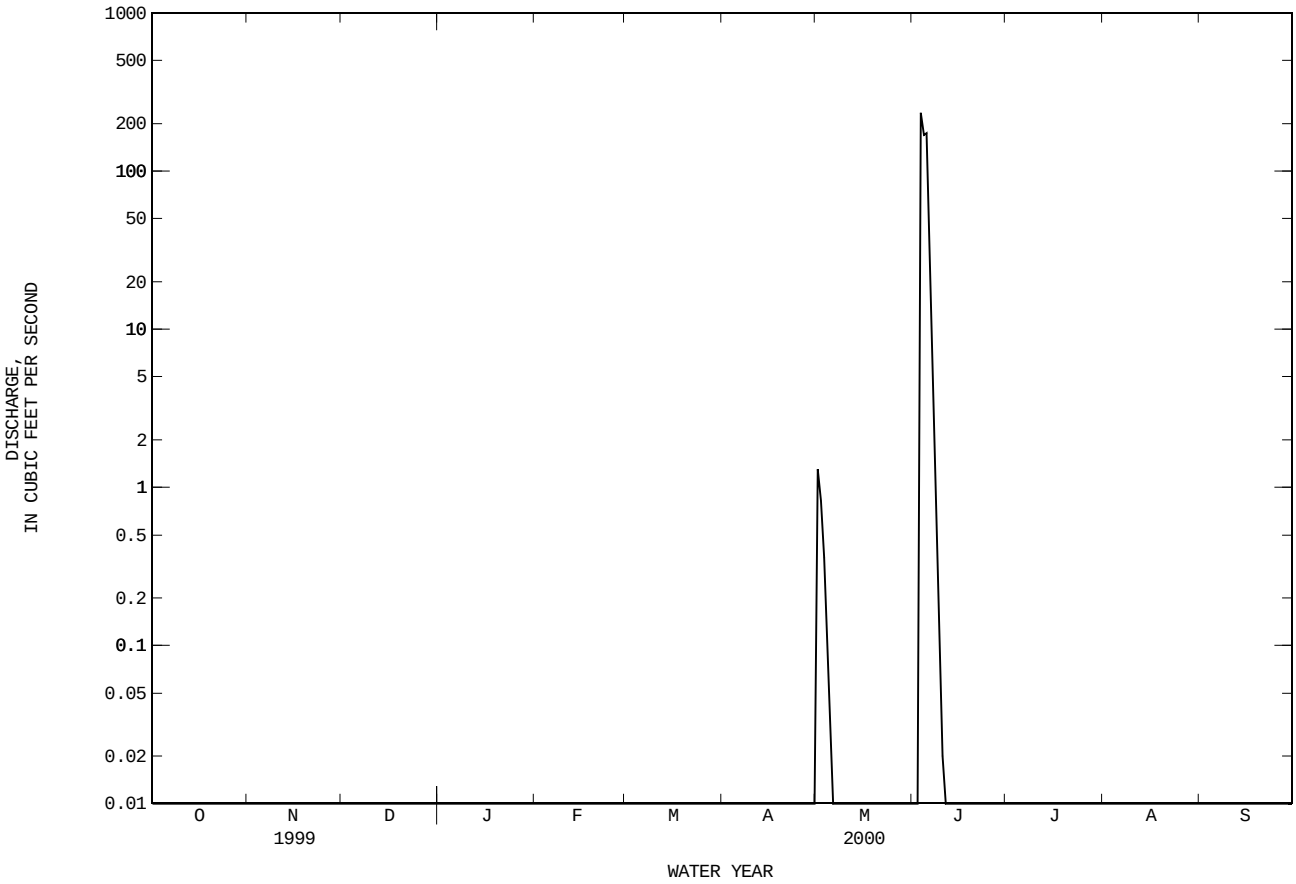
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	50.7	14.3	15.9	18.0	29.6	29.9	28.4	63.5	41.7	6.14	17.6	29.5
MAX	1151	155	342	547	455	255	209	414	406	51.4	211	396
(WY)	1982	1965	1992	1968	1992	1992	1990	1965	1997	1962	1978	1996
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1971	1971	1971	1962	1966	2000	1984	1964	1964	1980	1968

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	2452.87		612.19			
ANNUAL MEAN	6.72		1.67		28.8	
HIGHEST ANNUAL MEAN					114	1992
LOWEST ANNUAL MEAN					1.67	2000
HIGHEST DAILY MEAN	816	Jun 14	233	Jun 3	28100	Oct 13 1981
LOWEST DAILY MEAN	.00	Jul 6	.00	Oct 1	.00	Feb 1 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 15	.00	Oct 1	.00	Feb 1 1962
INSTANTANEOUS PEAK FLOW			923	Jun 3	i80000	Oct 13 1981
INSTANTANEOUS PEAK STAGE			7.10	Jun 3	a28.60	Oct 13 1981
ANNUAL RUNOFF (AC-FT)	4870		1210		20860	
ANNUAL RUNOFF (CFSM)	.024		.006		.10	
ANNUAL RUNOFF (INCHES)	.33		.08		1.40	
10 PERCENT EXCEEDS	2.0		.00		14	
50 PERCENT EXCEEDS	.03		.00		.07	
90 PERCENT EXCEEDS	.00		.00		.00	

a From floodmark.
i From field determination, based on 2-section slope-area measurement of peak flow.



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 Sep 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. Interruptions in the specific conductance and water temperature values were due to no flow. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and a regression relation between each chemical constituent and specific conductance. New regression equations were developed based on data from water years 1991 to 2000. The standard error of estimate for dissolved solids is 3%, chloride is 76%, sulfate is 26% and for hardness is 21%. 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 Apr 5, 10, 1976; minimum daily, 59 microsiemens, Nov 21, 1963.
WATER TEMPERATURE: Maximum, 37.0°C, Aug 9, 1987, Jul 16, 1989; minimum, 0.0°C, Jan 9, 10, 1977, Dec 2, 3, 1985.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 6,150 microsiemens, May 5; minimum, 148 microsiemens, Jun 3.
WATER TEMPERATURE: Maximum, 28.9°C, Jun 10; minimum, 21.4°C, Jun 7.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	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)
JUN 07...	1115	4.6	231	24.0	81	8	28	2.7	12

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
JUN 07...	.6	4.2	73	12	18	.19	8.1	128

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

MONTH	YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT-ANCE (MICRO-SIEMENS)	DIS-SOLVED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (TONS)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED CHLORIDE (TONS)	DIS-SOLVED SULFATE (MG/L)	DIS-SOLVED SULFATE (TONS)	HARDNESS (CA,MG) (MG/L)
OCT.	1999	0	--	--	--	--	--	--	--	--
NOV.	1999	0	--	--	--	--	--	--	--	--
DEC.	1999	0	--	--	--	--	--	--	--	--
JAN.	2000	0	--	--	--	--	--	--	--	--
FEB.	2000	0	--	--	--	--	--	--	--	--
MAR.	2000	0	--	--	--	--	--	--	--	--
APR.	2000	0	--	--	--	--	--	--	--	--
MAY	2000	2.65	5410	3090	22.1	1500	10.8	350	2.5	1000
JUNE	2000	609.54	557	304	500	140	229	37	61.0	110
JULY	2000	0	--	--	--	--	--	--	--	--
AUG.	2000	0	--	--	--	--	--	--	--	--
SEPT	2000	0	--	--	--	--	--	--	--	--
TOTAL		612.19	**	**	522	**	240	**	63.5	**
WTD.AVG.		1.7	578	316	**	150	**	38	**	110

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	5330	4910	5140
2	---	---	---	---	---	---	---	---	---	5750	5330	5550
3	---	---	---	---	---	---	---	---	---	6010	5670	5840
4	---	---	---	---	---	---	---	---	---	6010	5800	5900
5	---	---	---	---	---	---	---	---	---	6150	5930	6040
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08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	2600	148	1140	---	---	---	---	---	---	---	---	---
4	206	149	176	---	---	---	---	---	---	---	---	---
5	233	168	205	---	---	---	---	---	---	---	---	---
6	278	230	257	---	---	---	---	---	---	---	---	---
7	299	254	276	---	---	---	---	---	---	---	---	---
8	309	273	284	---	---	---	---	---	---	---	---	---
9	355	309	333	---	---	---	---	---	---	---	---	---
10	389	353	371	---	---	---	---	---	---	---	---	---
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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
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08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	24.7	21.9	22.9
2	---	---	---	---	---	---	---	---	---	24.4	22.3	23.3
3	---	---	---	---	---	---	---	---	---	26.1	22.0	23.8
4	---	---	---	---	---	---	---	---	---	25.7	22.6	24.1
5	---	---	---	---	---	---	---	---	---	25.3	23.2	24.1
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
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3	26.8	21.8	23.0	---	---	---	---	---	---	---	---	---
4	24.4	22.8	23.5	---	---	---	---	---	---	---	---	---
5	25.4	23.3	24.2	---	---	---	---	---	---	---	---	---
6	27.1	22.7	24.7	---	---	---	---	---	---	---	---	---
7	27.9	21.4	24.8	---	---	---	---	---	---	---	---	---
8	25.7	21.8	23.7	---	---	---	---	---	---	---	---	---
9	27.3	23.5	24.9	---	---	---	---	---	---	---	---	---
10	28.9	23.9	26.1	---	---	---	---	---	---	---	---	---
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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 mi^2.

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.--No estimated daily contents. Records good. 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 Sep 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 ft^3/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, 143,700 acre-ft, Sep 30, 2000, elevation, 1,167.82 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 222,200 acre-ft, Oct 1, elevation, 1,175.36 ft; minimum contents, 143,700 acre-ft, Sep 30, elevation, 1,167.82 ft.

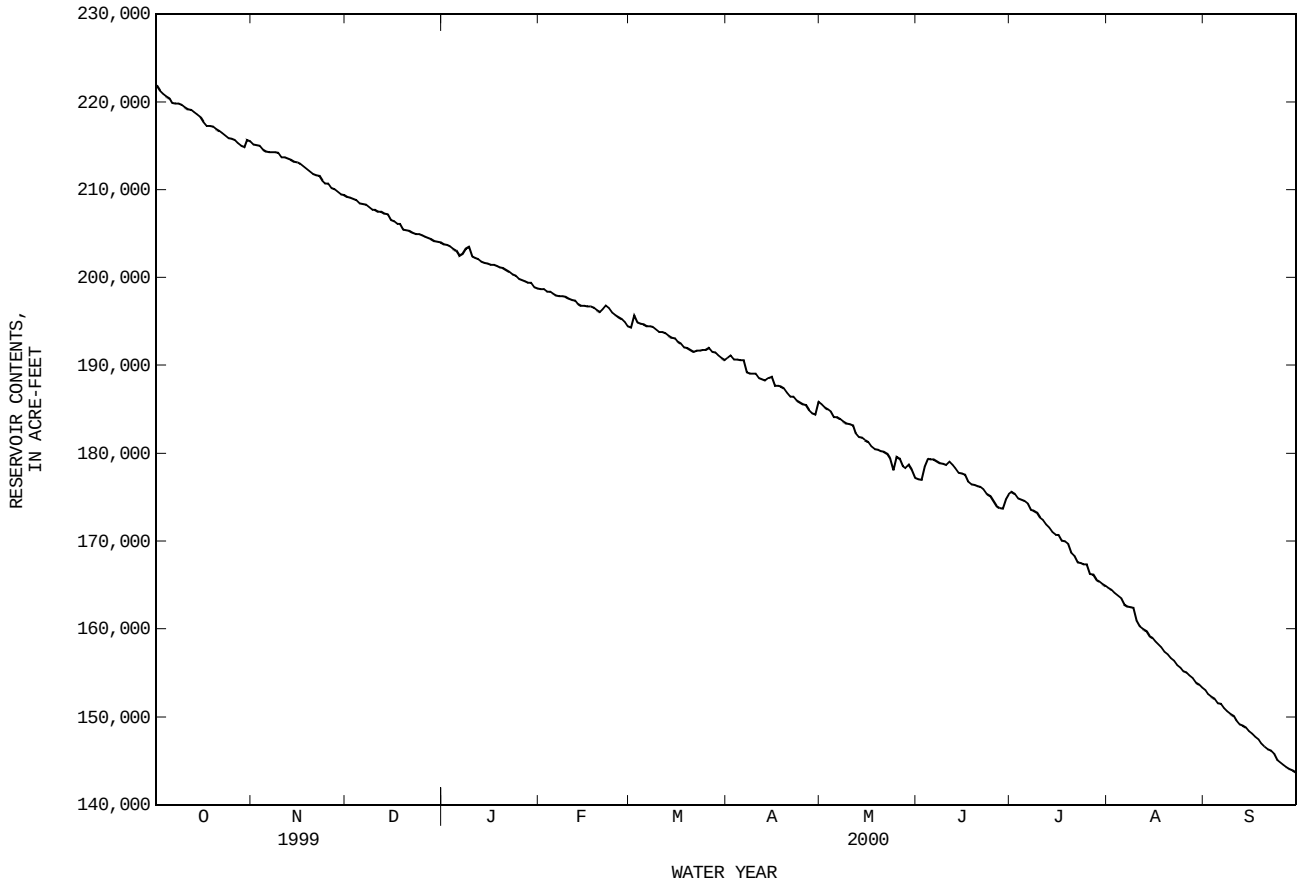
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221900	215200	209200	203800	198700	194300	190800	185600	177100	175600	164700	153000
2	221300	215100	209100	203700	198700	195700	191100	185200	177000	175400	164500	152600
3	220900	215000	209000	203600	198400	194900	190700	185000	178500	174900	164100	152300
4	220600	214600	208800	203300	198400	194800	190700	184800	179400	174700	163800	152100
5	220400	214400	208500	203100	198200	194700	190600	184100	179300	174600	163500	151600
6	219900	214300	208400	202500	198000	194500	190600	184100	179300	174300	162800	151500
7	219800	214300	208300	202700	197900	194500	189200	183900	179100	173600	162600	151000
8	219800	214300	208000	203300	197900	194400	189100	183600	178900	173500	162500	150600
9	219700	214200	207700	203500	197800	194100	189100	183400	178800	173300	162400	150300
10	219400	213700	207700	202400	197600	193800	189100	183300	178700	172700	161000	150100
11	219200	213700	207500	202300	197500	193800	188600	183200	179000	172400	160300	149600
12	219100	213600	207500	202100	197400	193700	188400	182300	178700	171900	160000	149200
13	218800	213400	207300	201800	197000	193400	188300	181900	178300	171500	159800	149000
14	218600	213200	207200	201700	196800	193200	188600	181800	177800	171000	159200	148800
15	218300	213100	206600	201600	196800	193100	188700	181500	177700	170700	159000	148400
16	217700	213000	206400	201500	196700	192700	187700	181300	177600	170700	158600	148100
17	217300	212700	206100	201500	196700	192500	187700	180800	176800	170100	158300	147700
18	217300	212400	206100	201300	196600	192100	187600	180500	176500	170000	157900	147400
19	217200	212100	205500	201200	196300	192000	187400	180400	176400	169700	157400	147000
20	216900	211800	205400	201100	196100	191800	186900	180300	176300	168700	157100	146600
21	216700	211700	205300	200900	196400	191600	186500	180200	176200	168300	156700	146300
22	216500	211600	205100	200700	196800	191700	186500	180000	175900	167600	156400	146200
23	216200	211000	205000	200400	196500	191700	186000	179400	175400	167500	155900	145800
24	215900	210700	205000	200200	196000	191800	185800	178100	175200	167400	155600	145100
25	215800	210700	204800	199900	195700	191800	185600	179600	174600	167400	155200	144800
26	215700	210200	204700	199700	195500	192000	185500	179400	174000	166300	155100	144500
27	215300	210100	204500	199600	195300	191600	184900	178500	173800	166200	154700	144300
28	215000	209800	204400	199400	194900	191500	184600	178300	173700	165600	154400	144100
29	214900	209500	204200	199400	194500	191100	184400	178700	174800	165400	153900	143900
30	215700	209400	204100	198900	---	190800	185900	178100	175300	165100	153700	143700
31	215500	---	204000	198800	---	190600	---	177200	---	164900	153300	---
MAX	221900	215200	209200	203800	198700	195700	191100	185600	179400	175600	164700	153000
MIN	214900	209400	204000	198800	194500	190600	184400	177200	173700	164900	153300	143700
(+)	1174.80	1174.27	1173.79	1173.33	1172.94	1172.58	1172.14	1171.31	1171.12	1170.09	1168.87	1167.82
(@)	-6800	-6100	-5400	-5200	-4300	-3900	-4700	-8700	-1900	-10400	-11600	-9600

CAL YR 1999 MAX 263900 MIN 204000 (@) -57600
WTR YR 2000 MAX 221900 MIN 143700 (@) -78600

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Sep 1963 to current year.
BIOCHEMICAL DATA: Sep 1963 to current year.

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

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 (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
MAR											
20...	1645	192000	1.00	1300	8.4	14.5	.52	9.7	101	280	170
20...	1649	--	10.0	1290	8.4	14.0	--	9.6	99	--	--
20...	1654	--	20.0	1290	8.4	14.0	--	9.6	99	--	--
20...	1658	--	30.0	1290	8.4	14.0	--	9.5	98	--	--
20...	1702	--	40.0	1290	8.4	14.0	--	9.5	98	--	--
20...	1706	--	50.0	1290	8.3	14.0	--	9.5	98	--	--
20...	1708	--	56.0	1290	8.3	14.0	--	9.6	99	280	170
SEP											
07...	1023	151000	1.00	1480	8.2	28.0	1.43	6.6	89	310	210
07...	1037	--	30.0	1480	7.8	27.5	--	4.9	66	--	--
07...	1043	--	40.0	1470	7.3	27.0	--	.2	3	--	--
07...	1048	--	50.0	1470	7.3	27.0	--	.4	5	310	200

324932098575101 - Hubbard Ck Res Site P01

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
MAR											
20...	69.8	25.8	133	3	50	8.6	110	89.6	291	.4	6.7
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	70.0	25.8	134	3	50	8.6	110	89.8	291	.4	6.5
SEP											
07...	75.8	28.7	155	4	51	10.1	94	102	341	.4	8.3
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	77.3	28.1	152	4	51	10.1	110	91.8	331	.4	9.6

324932098575101 - Hubbard Ck Res Site P01

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAR											
20...	691	<.010	<.050	<.020	--	.31	<.050	<.010	--	<10	<2
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	692	<.010	<.050	<.020	--	.33	<.050	<.010	--	<10	2
SEP											
07...	778	<.010	<.050	<.020	--	.38	<.050	<.010	--	<10	6
07...	--	<.010	<.050	<.020	--	.37	<.050	<.010	--	<10	25
07...	--	<.010	<.050	.225	.42	.65	<.050	<.010	--	120	744
07...	769	<.010	<.050	.327	.43	.75	<.050	.012	.037	190	980

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

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

324649099000501 - Hubbard Ck Res Site P09

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
MAR											
20...	1600	1.00	1300	8.4	13.5	.52	9.8	100	280	170	70.3
20...	1604	10.0	1300	8.4	13.5	--	9.8	100	--	--	--
20...	1609	20.0	1300	8.3	13.5	--	9.8	100	--	--	--
20...	1614	30.0	1300	8.3	13.5	--	9.8	100	--	--	--
20...	1619	38.0	1300	8.3	13.5	--	9.9	101	280	170	70.7
SEP											
07...	0949	1.00	1490	8.3	28.5	1.01	7.6	104	310	210	76.8
07...	0954	10.0	1490	8.3	28.0	--	7.4	100	--	--	--
07...	1000	20.0	1490	8.2	28.0	--	6.2	84	--	--	--
07...	1005	32.0	1520	7.4	27.5	--	1.2	16	320	210	80.7

324649099000501 - Hubbard Ck Res Site P09

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
MAR										
20...	25.8	133	3	50	8.5	110	90.3	293	.4	6.3
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	26.0	134	3	50	8.1	110	90.4	294	.4	6.2
SEP										
07...	28.7	156	4	51	10.3	98	102	341	.4	8.2
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	29.1	159	4	51	9.8	110	100	344	.4	9.0

324649099000501 - Hubbard Ck Res Site P09

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
MAR										
20...	694	<.010	<.050	<.020	--	.32	<.050	<.010	<10	<2
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	696	<.010	<.050	<.020	--	.32	<.050	<.010	<10	2
SEP										
07...	782	<.010	<.050	<.020	--	.39	<.050	<.010	<10	E2
07...	--	<.010	<.050	<.020	--	.37	<.050	<.010	<10	3
07...	--	<.010	<.050	<.020	--	.38	<.050	<.010	<10	41
07...	798	<.010	<.050	.030	.40	.43	<.050	<.010	<10	743

324606099000201 - Hubbard Ck Res Site P10

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR							
20...	1536	1.00	1300	8.3	14.0	9.8	101
20...	1540	10.0	1300	8.3	13.5	9.9	101
20...	1543	20.0	1300	8.3	13.5	9.9	101
20...	1547	28.0	1300	8.2	13.5	9.9	101

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

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

324514099010201 - Hubbard Ck Res Site P11

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR							
20...	1509	1.00	1300	8.2	13.5	10.0	102
20...	1513	10.0	1300	8.2	13.5	10.1	103
20...	1517	17.0	1300	8.0	13.5	10.1	103

324949098594301 - Hubbard Ck Res Site P13

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR							
20...	1822	1.00	1300	8.4	14.0	9.7	100
20...	1825	10.0	1300	8.4	14.0	9.7	100
20...	1828	20.0	1300	8.4	14.0	9.8	101
20...	1831	30.0	1300	8.4	14.0	9.8	101
20...	1833	39.0	1300	8.4	14.0	9.8	101

324802099021601 - Hubbard Ck Res Site P15

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR							
20...	1755	1.00	1300	8.4	14.0	9.9	102
20...	1758	10.0	1300	8.4	14.0	10.0	103
20...	1801	20.0	1300	8.4	14.0	10.0	103
20...	1803	27.0	1300	8.4	14.0	10.0	103

324653099032401 - Hubbard Ck Res Site P16

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
MAR										
20...	1740	1.00	1310	8.4	15.0	.18	10.0	105	290	170

324653099032401 - Hubbard Ck Res Site P16

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
MAR										
20...	71.5	26.2	135	3	50	8.4	110	91.3	299	.4

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

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

324653099032401 - Hubbard Ck Res Site P16

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAR										
20...	6.3	705	<.010	<.050	<.020	.29	<.050	<.010	<10	E1

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 mi^2.

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 Sep 1, 1948 and first filled Jun 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, 399 acre-ft, Sep 30, 2000, elevation, 1,261.18 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 4,400 acre-ft, Apr 1, elevation, 1,271.94 ft; minimum contents, 2,450 acre-ft, Sep 30, elevation, 1,267.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,460 acre-ft, Oct 1, elevation, 1,268.00 ft; minimum contents, 399 acre-ft, Sep 30, elevation, 1,261.18 ft.

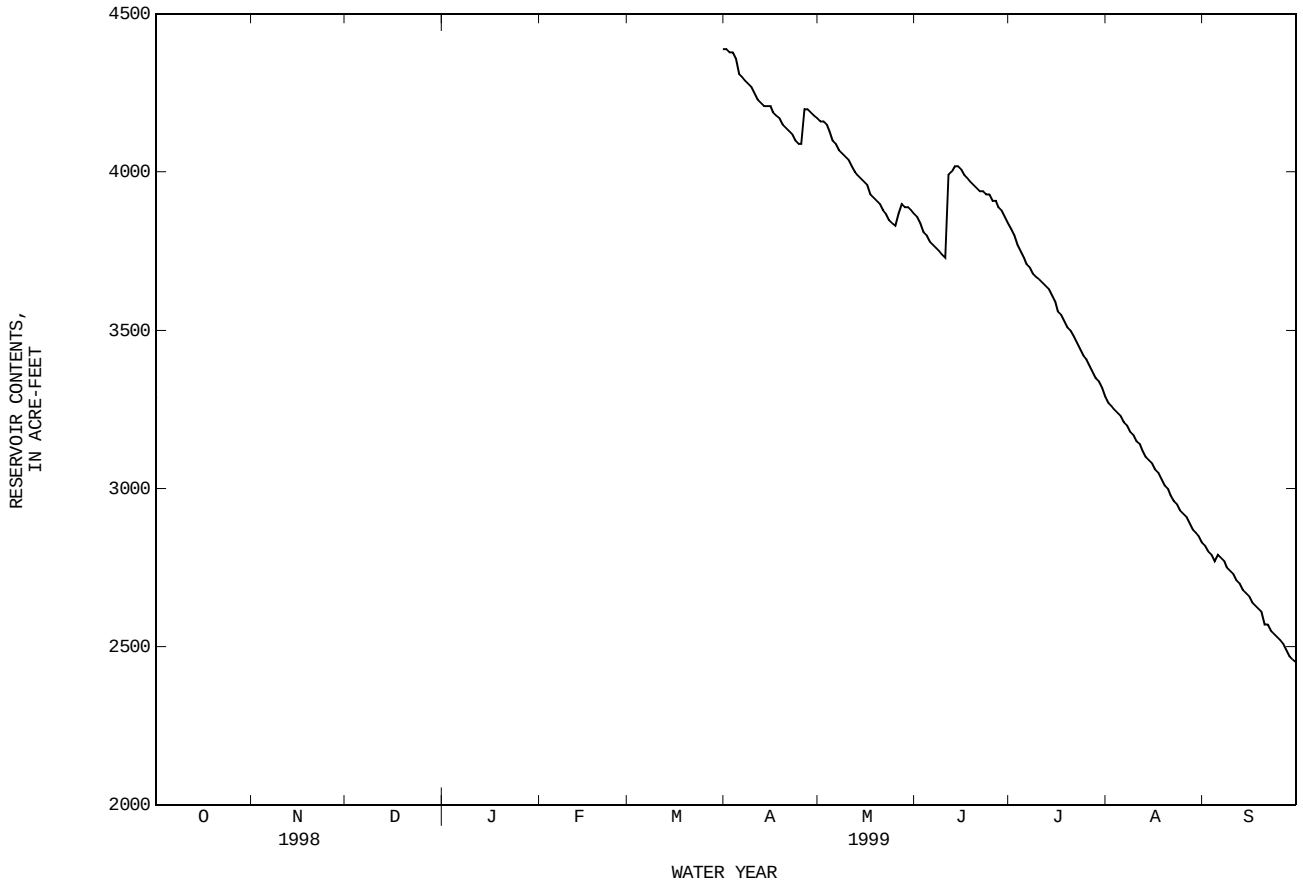
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	4390	4160	3860	3820	3270	2820
2	---	---	---	---	---	---	4380	4160	3840	3800	3260	2800
3	---	---	---	---	---	---	4380	4150	3810	3770	3250	2790
4	---	---	---	---	---	---	4360	4130	3800	3750	3240	2770
5	---	---	---	---	---	---	4310	4100	3780	3730	3230	2790
6	---	---	---	---	---	---	4300	4090	3770	3710	3210	2780
7	---	---	---	---	---	---	4290	4070	3760	3700	3200	2770
8	---	---	---	---	---	---	4280	4060	3750	3680	3180	2750
9	---	---	---	---	---	---	4270	4050	3740	3670	3170	2740
10	---	---	---	---	---	---	4250	4040	3730	3660	3150	2730
11	---	---	---	---	---	---	4230	4020	3990	3650	3140	2710
12	---	---	---	---	---	---	4220	4000	4000	3640	3120	2700
13	---	---	---	---	---	---	4210	3990	4020	3630	3100	2680
14	---	---	---	---	---	---	4210	3980	4020	3610	3090	2670
15	---	---	---	---	---	---	4210	3970	4010	3590	3080	2660
16	---	---	---	---	---	---	4190	3960	3990	3560	3060	2640
17	---	---	---	---	---	---	4180	3930	3980	3550	3050	2630
18	---	---	---	---	---	---	4170	3920	3970	3530	3030	2620
19	---	---	---	---	---	---	4150	3910	3960	3510	3010	2610
20	---	---	---	---	---	---	4140	3900	3950	3500	3000	2570
21	---	---	---	---	---	---	4130	3880	3940	3480	2980	2570
22	---	---	---	---	---	---	4120	3870	3940	3460	2960	2550
23	---	---	---	---	---	---	4100	3850	3930	3440	2950	2540
24	---	---	---	---	---	---	4090	3840	3930	3420	2930	2530
25	---	---	---	---	---	---	4090	3830	3910	3410	2920	2520
26	---	---	---	---	---	---	4200	3870	3910	3390	2910	2510
27	---	---	---	---	---	---	4200	3900	3890	3370	2890	2490
28	---	---	---	---	---	---	4190	3890	3880	3350	2870	2470
29	---	---	---	---	---	---	4180	3890	3860	3340	2860	2460
30	---	---	---	---	---	---	4170	3880	3840	3320	2850	2450
31	---	---	---	---	---	4390	---	3870	---	3290	2830	---
MAX	---	---	---	---	---	---	4390	4160	4020	3820	3270	2820
MIN	---	---	---	---	---	---	4090	3830	3730	3290	2830	2450
(+)						1271.92	1271.54	1270.99	1270.94	1269.82	1268.83	1267.98
(@)							-220	-300	-30	-550	-460	-380

WTR YR 1999 MAX 4390 MIN 2450

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

08086600 LAKE DANIEL NEAR BRECKENRIDGE, TX--Continued



08086600 LAKE DANIEL NEAR BRECKENRIDGE, TX--Continued

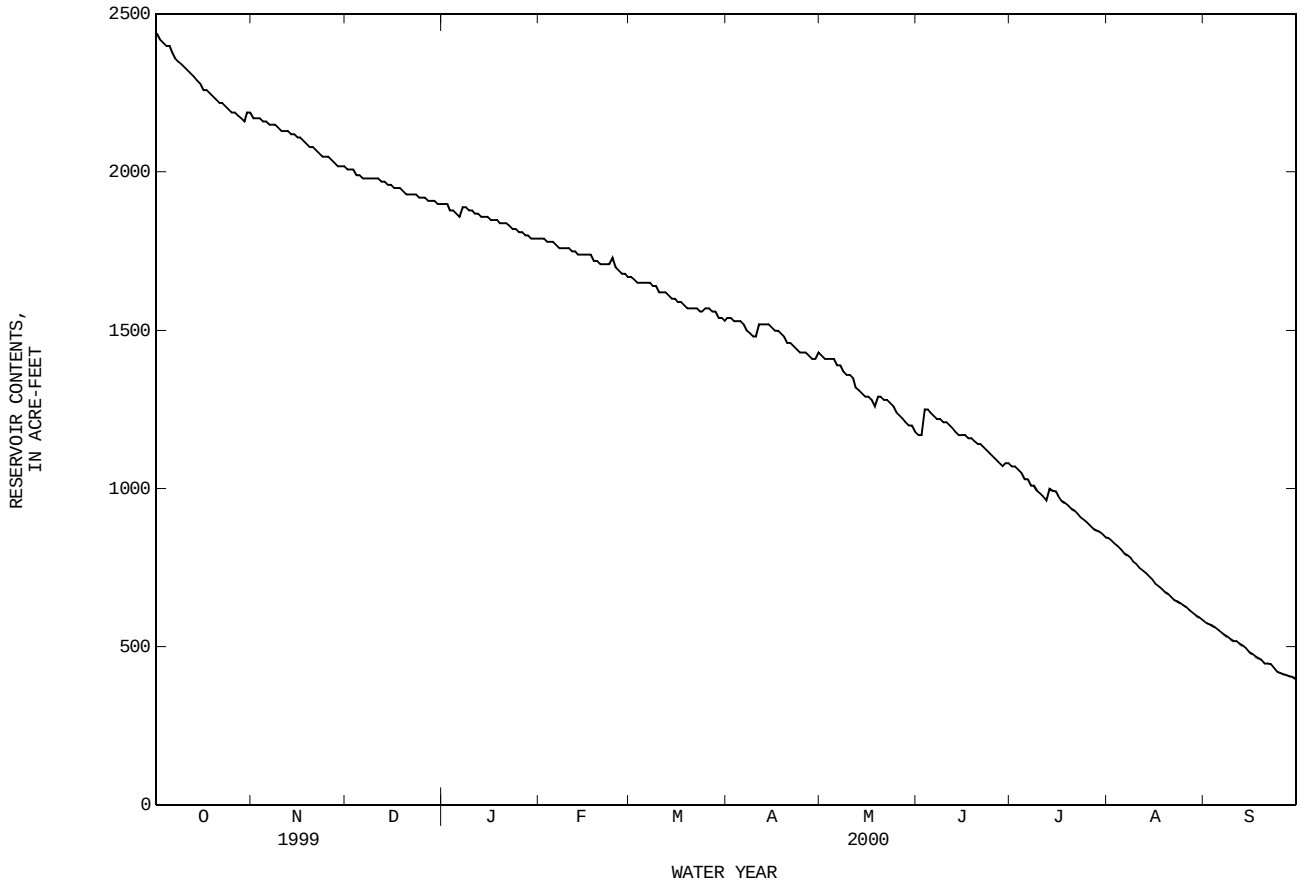
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2440	2170	2010	1900	1790	1670	1540	1420	1170	1070	843	577
2	2420	2170	2010	1900	1790	1660	1540	1410	1170	1070	836	573
3	2410	2170	2010	1880	1780	1650	1530	1410	1250	1060	826	569
4	2400	2160	1990	1880	1780	1650	1530	1410	1250	1050	817	562
5	2400	2160	1990	1870	1780	1650	1530	1410	1240	1030	807	554
6	2380	2150	1980	1860	1770	1650	1520	1390	1230	1030	795	545
7	2360	2150	1980	1890	1760	1650	1500	1390	1220	1010	788	537
8	2350	2150	1980	1890	1760	1640	1490	1370	1220	1010	781	531
9	2340	2140	1980	1880	1760	1640	1480	1360	1210	994	769	524
10	2330	2130	1980	1880	1760	1620	1480	1360	1210	986	760	518
11	2320	2130	1980	1870	1750	1620	1520	1350	1200	974	748	518
12	2310	2130	1970	1870	1750	1620	1520	1320	1190	963	741	509
13	2300	2120	1970	1860	1740	1610	1520	1310	1180	1000	733	503
14	2290	2120	1960	1860	1740	1600	1520	1300	1170	994	722	495
15	2280	2110	1960	1860	1740	1600	1510	1290	1170	992	712	484
16	2260	2110	1950	1850	1740	1590	1500	1290	1170	974	698	478
17	2260	2100	1950	1850	1740	1590	1500	1280	1160	960	691	469
18	2250	2090	1950	1850	1720	1580	1490	1260	1160	954	683	463
19	2240	2080	1940	1840	1720	1570	1480	1290	1150	946	674	458
20	2230	2080	1930	1840	1710	1570	1460	1290	1140	937	667	447
21	2220	2070	1930	1840	1710	1570	1460	1280	1140	931	658	447
22	2220	2060	1930	1830	1710	1570	1450	1280	1130	920	647	444
23	2210	2050	1930	1820	1710	1560	1440	1270	1120	909	643	432
24	2200	2050	1920	1820	1730	1560	1430	1260	1110	903	637	420
25	2190	2050	1920	1810	1700	1570	1430	1240	1100	895	632	416
26	2190	2040	1920	1810	1690	1570	1430	1230	1090	883	624	413
27	2180	2030	1910	1800	1680	1560	1420	1220	1080	874	615	410
28	2170	2020	1910	1800	1680	1560	1410	1210	1070	867	607	407
29	2160	2020	1910	1790	1670	1540	1410	1200	1080	864	598	404
30	2190	2020	1900	1790	---	1540	1430	1200	1080	855	592	399
31	2190	---	1900	1790	---	1530	---	1180	---	845	584	---
MAX	2440	2170	2010	1900	1790	1670	1540	1420	1250	1070	843	577
MIN	2160	2020	1900	1790	1670	1530	1410	1180	1070	845	584	399
(+)	1267.35	1266.91	1266.61	1266.31	1265.95	1265.57	1265.25	1264.47	1264.12	1263.27	1262.13	1261.18
(@)	-260	-170	-120	-110	-120	-140	-100	-250	-100	-235	-261	-185

WTR YR 2000 MAX 2440 MIN 399 (@) -2051

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

08086600 LAKE DANIEL NEAR BRECKENRIDGE, TX--Continued



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 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Sep 1938 to current year.
Water-quality records.--Chemical data: Jul 1941 to Mar 1948. Biochemical data: Nov 1977 to Sep 1991. Pesticide data: Mar 1968 to Apr 1982. Sediment data: May to Sep 1962, Nov 1977 to Sep 1991. Specific conductance: Jan 1942 to Mar 1948, Nov 1977 to Sep 1981. Water temperature: Nov 1977 to Sep 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.--No estimated daily discharges. Records fair. Since water year 1962, at least 10% of contributing drainage area has been regulated by upstream reservoirs Lake Stamford (station 08084500) and Hubbard Creek Reservoir (station 08086400) with a combined conservation pool storage of 370,770 acre-ft. Flow is also 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 mi^2 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 Sep 24, 1900, reached a stage of 29.5 ft, and flood of Jun 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 ft^3/s (719,100 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1939-61).--Maximum discharge, 87,400 ft^3/s May 4, 1941 (gage height, 27.35 ft); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	21	2.0	1.6	3.6	3.1	793	1020	252	277	5.2	.00
2	54	14	2.1	1.6	3.9	3.1	733	1350	218	1180	4.3	.00
3	45	12	2.0	1.6	4.0	3.1	652	1050	192	1840	3.4	.00
4	40	14	1.8	1.7	3.8	3.1	582	590	191	921	2.5	.00
5	43	19	3.4	1.7	3.8	3.1	541	457	608	844	.70	.00
6	32	18	6.0	1.7	4.0	3.1	498	310	1360	723	.50	.00
7	26	16	5.3	2.1	4.0	4.0	443	238	933	428	.40	.00
8	26	13	3.8	14	3.9	16	398	199	738	319	.30	.00
9	29	12	4.5	13	3.3	15	376	170	536	289	.18	.00
10	26	10	2.0	11	3.3	24	349	152	386	241	.13	.00
11	24	9.0	3.0	8.9	3.1	30	329	136	329	198	.08	.00
12	20	8.1	3.8	6.8	3.1	25	360	116	263	164	.01	.00
13	18	6.8	3.0	7.7	3.1	24	343	109	229	140	.00	.00
14	16	5.8	6.5	8.0	3.1	18	324	97	204	133	.00	.00
15	15	5.8	22	7.2	3.2	16	301	91	193	133	.00	.00
16	10	5.8	18	7.0	3.1	15	280	85	173	119	.00	.00
17	11	5.2	15	8.4	3.2	19	335	78	160	88	.00	.00
18	11	4.7	14	8.3	3.1	22	328	71	190	69	.00	.00
19	13	2.4	11	8.0	3.1	20	257	72	226	57	.00	.00
20	12	1.9	9.4	7.4	3.1	21	214	80	266	50	.00	.00
21	10	1.9	8.9	7.4	3.1	17	192	76	202	41	.00	.00
22	8.2	1.9	8.2	4.6	3.1	14	183	70	173	34	.00	.00
23	7.4	1.9	7.9	3.6	3.1	20	170	64	152	29	.00	.00
24	6.8	1.7	7.8	4.6	3.1	1300	162	56	394	25	.00	.00
25	5.9	1.8	7.9	3.6	3.1	6700	155	56	407	23	.00	.00
26	5.3	1.9	7.8	3.5	3.1	7800	161	57	288	17	.00	.00
27	4.7	2.0	7.3	6.1	3.1	3520	175	59	251	14	.00	.00
28	3.7	2.0	7.3	7.2	3.1	2240	146	148	213	12	.00	.00
29	3.2	2.0	3.6	7.0	3.1	2140	145	139	271	11	.00	.00
30	13	1.9	1.5	4.5	---	1280	203	109	243	9.8	.00	.00
31	22	---	1.4	3.7	---	944	---	116	---	6.7	.00	---
TOTAL	622.2	223.5	208.2	183.5	96.7	26262.6	10128	7421	10241	8435.5	17.70	0.00
MEAN	20.1	7.45	6.72	5.92	3.33	847	338	239	341	272	.57	.000
MAX	61	21	22	14	4.0	7800	793	1350	1360	1840	5.2	.00
MIN	3.2	1.7	1.4	1.6	3.1	3.1	145	56	152	6.7	.00	.00
AC-FT	1230	443	413	364	192	52090	20090	14720	20310	16730	35	.00

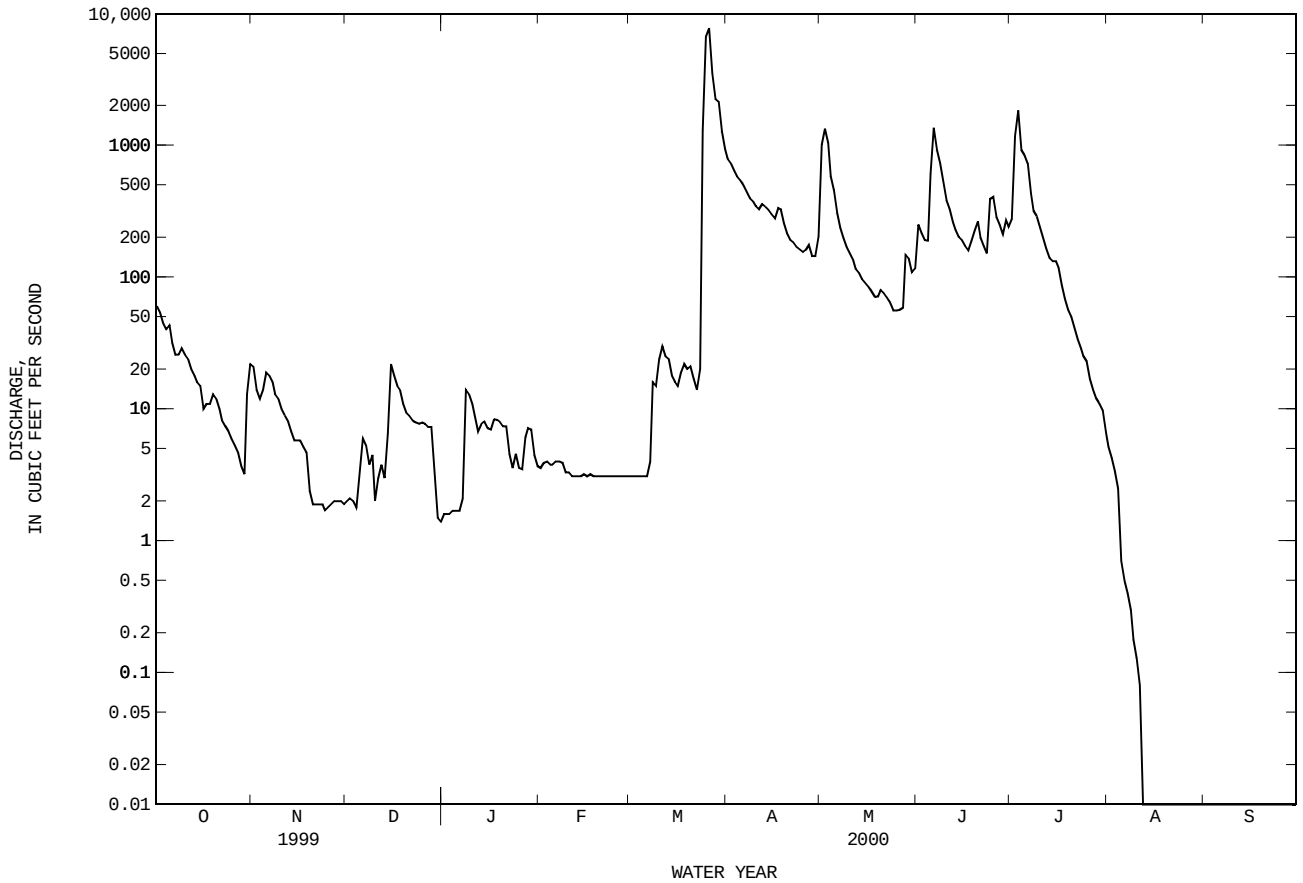
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000z, BY WATER YEAR (WY)

MEAN	880	357	343	238	510	483	564	1344	1630	381	687	984
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000z	
ANNUAL TOTAL	101632.7		63839.90			
ANNUAL MEAN	278		174		699	
HIGHEST ANNUAL MEAN					2966	1992
LOWEST ANNUAL MEAN					174	2000
HIGHEST DAILY MEAN	8100	Jun 15	7800	Mar 26	74700	Aug 6 1978
LOWEST DAILY MEAN	1.3	Sep 21	.00	Aug 13	.00	Aug 3 1964
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 21	.00	Aug 13	.00	Aug 3 1964
INSTANTANEOUS PEAK FLOW			8010	Mar 26	78100	Aug 6 1978
INSTANTANEOUS PEAK STAGE			15.00	Mar 26	41.50	Aug 6 1978
ANNUAL RUNOFF (AC-FT)	201600		126600		506700	
10 PERCENT EXCEEDS	707		365		1240	
50 PERCENT EXCEEDS	38		10		128	
90 PERCENT EXCEEDS	4.4		.00		13	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Mar 1958 to Sep 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 Jul 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 ft^3/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. The capacity table is based on an original survey of Lake Eddleman in 1928 and a Salt Creek survey of 1953. 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, 23,390 acre-ft May 1, 1980, gage height, 1,061.23 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 43,400 acre-ft, Oct 1, elevation, 1,070.82 ft; minimum contents, 29,900 acre-ft, Sep 30, elevation, 1,064.66 ft.

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

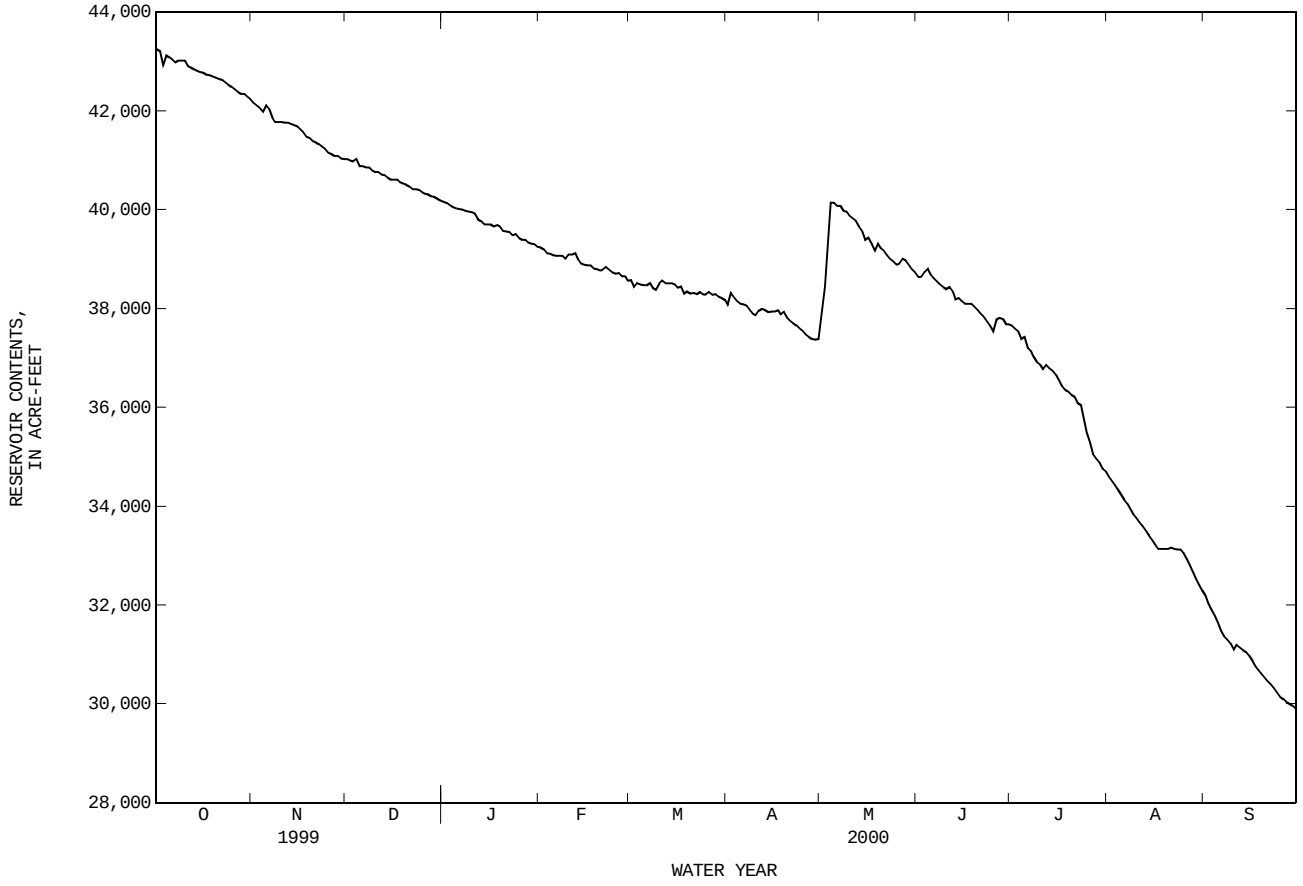
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43260	e42160	41020	e40160	39240	38580	38080	e37930	38640	37660	34610	32180
2	43210	e42110	41000	e40130	39200	38430	38320	e38440	38640	37590	34530	32040
3	42930	42060	40970	e40100	39120	38510	38230	e39400	38730	37540	34440	31910
4	43120	41990	41020	e40050	39110	38490	38150	e40140	38800	37390	34330	31790
5	43090	42110	40880	e40030	39080	38470	38100	40150	38690	37430	34230	31650
6	43050	42040	40880	e40010	39070	38470	38080	40080	38620	37210	34120	31480
7	42980	41850	40860	e40000	39070	38510	38060	40080	38550	37140	34040	31360
8	43020	41780	40860	e39980	39070	38420	37970	39980	38490	37030	33930	31300
9	43020	41780	40790	e39960	39000	38380	37890	39960	38440	36920	33840	31220
10	43020	41780	40770	e39950	39100	38500	37860	39870	38400	36870	33760	31110
11	e42910	41760	40770	e39920	39100	38560	37960	39820	38440	36770	33670	31200
12	e42880	41760	40720	39810	39120	38520	38000	39780	38350	36850	33590	31150
13	e42840	41740	40700	39770	39000	38520	37970	39660	38190	36790	33500	31090
14	e42810	41710	40650	39710	38910	38510	37930	39570	38220	36740	33400	31050
15	e42790	41690	40610	39710	38890	38490	37950	39390	38150	36660	33310	30970
16	e42770	41640	40610	39700	38870	38420	37950	39430	38100	36570	33210	30870
17	e42740	41570	40610	39670	38870	38450	37970	39320	38100	36440	33140	30760
18	e42720	41480	40560	39690	38810	38310	37880	39180	38100	36370	33140	30680
19	e42700	41460	40540	39660	38800	38350	37930	39320	38040	36330	33140	30620
20	e42670	41390	40510	39580	38770	38310	37810	39230	37970	36260	33140	30540
21	e42650	41360	40470	39560	38780	38320	37750	39180	37900	36220	33160	30460
22	e42630	41320	40420	39550	38840	38300	37700	39090	37840	36090	33140	30400
23	e42580	41270	40420	39490	38790	38330	37660	39000	37750	e36050	33120	30320
24	e42530	41230	e40400	39510	38740	38300	37590	38960	37660	e35800	33120	30220
25	e42490	41160	e40350	39430	38710	38280	37540	38890	37540	e35500	33060	30140
26	e42440	41130	e40330	39400	38720	38330	37480	38910	37770	e35300	32950	30100
27	e42390	41090	e40310	39390	38660	38280	37430	39000	37810	e35060	32820	30040
28	e42350	41090	e40280	39340	38660	38300	37390	38980	37790	34960	32670	30000
29	e42350	41040	e40260	39320	38560	38240	37370	38890	37680	34890	32530	29960
30	e42300	41020	e40220	39300	---	38220	e37390	38800	37680	34760	32400	29900
31	e42250	---	e40190	39250	---	38180	---	38730	---	34700	32280	---
MAX	43260	42160	41020	40160	39240	38580	38320	40150	38800	37660	34610	32180
MIN	42250	41020	40190	39250	38560	38180	37370	37930	37540	34700	32280	29900
(+)	1070.31	1069.80	1069.44	1069.03	1068.72	1068.55	1068.19	1068.80	1068.33	1068.97	1065.83	1064.66
(@)	-1170	-1230	-830	-940	-690	-380	-790	+1340	-1050	-2980	-2420	-2380

CAL YR 1999 MAX 52160 MIN 37790 (@) +1820
WTR YR 2000 MAX 43400 MIN 29900 (@) -13520

e Estimated

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

08088400 LAKE GRAHAM NEAR GRAHAM, TX--Continued



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 mi^2, approximately, of which 9,566 mi^2 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 Sep 1977. Biochemical data: Feb 1978 to Sep 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.10 ft above 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 was completed and storage begun Mar 21, 1941. The spillway has nine roof-weir gates (modified bear-trap type) that are 73.66 by 13 ft each and are designed to discharge about 100,000 ft^3/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 mi^2. 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, 1995.

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, 499,600 acre-ft, Jul 11, elevation, 996.64 ft; minimum contents, 417,600 acre-ft, Mar 20, 22, 23, elevation, 991.17 ft.

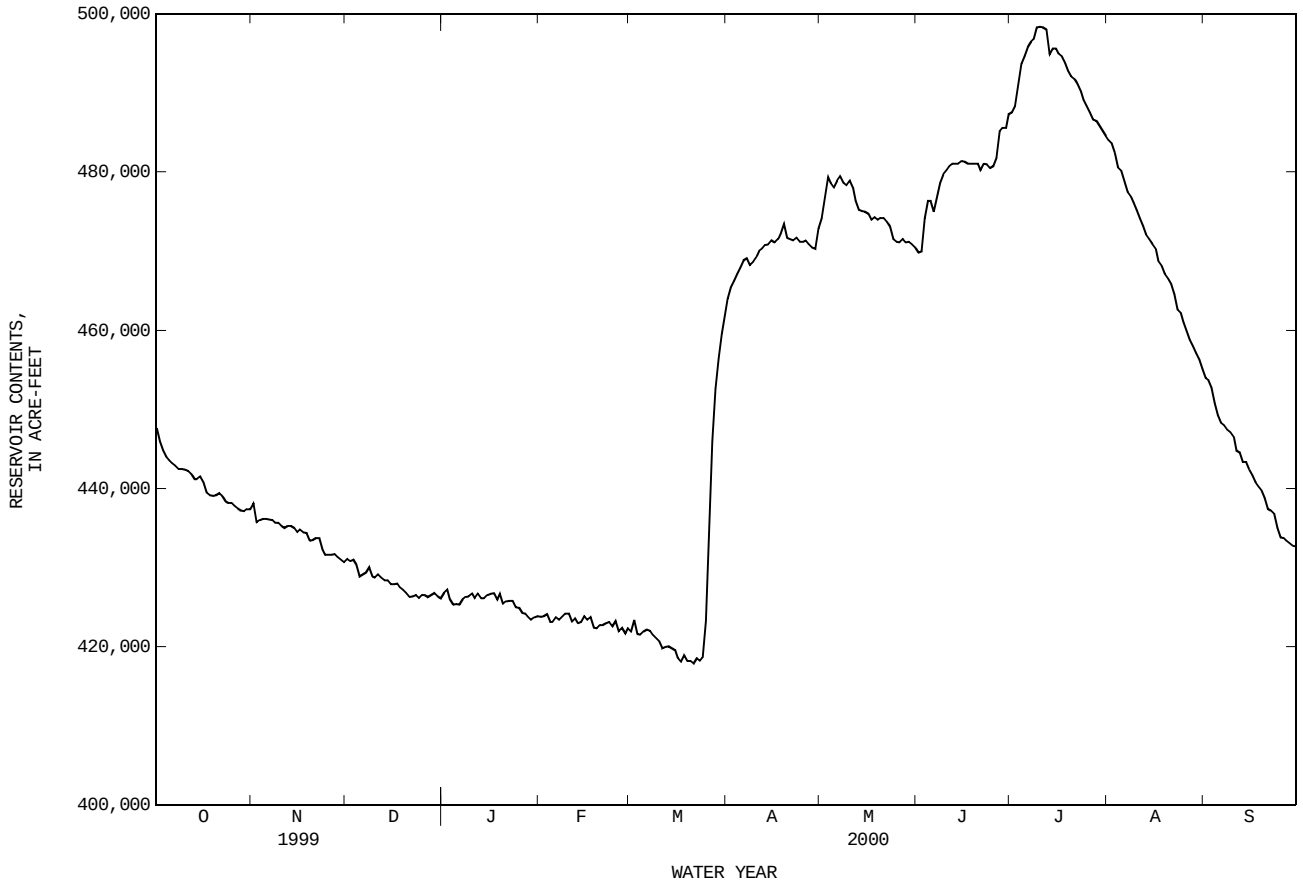
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	447700	438100	431100	426800	423800	421900	464000	474200	469800	487600	484100	454000
2	446000	435700	430800	427200	423900	423400	465500	476700	470000	488400	483700	453700
3	444800	436000	431000	426000	424100	421600	466300	479400	474200	491000	482500	452800
4	444000	436200	430300	425300	423100	421500	467200	478700	476400	493700	480600	450800
5	443500	436200	428900	425400	423100	421900	468000	478100	476400	494700	480200	449300
6	443200	436100	429100	425300	423700	422200	468900	478900	475000	495800	478900	448300
7	442900	436000	429400	426000	423400	422000	469100	479500	476800	496500	477500	448000
8	442500	435700	430000	426300	423800	421500	468200	478700	478700	496800	477000	447400
9	442500	435700	428900	426400	424200	421100	468600	478300	479700	498300	476200	447100
10	442400	435300	428700	426700	424200	420700	469100	478900	480200	498400	475300	446500
11	442200	435000	429100	426100	423100	419800	470000	478000	480800	498300	474200	444800
12	441800	435300	428700	426700	423500	420000	470300	476400	481100	498100	473200	444600
13	441200	435300	428400	426100	423000	420100	470800	475300	481100	494900	472100	443400
14	441200	435000	428400	426100	423100	419800	470900	475100	481100	495700	471500	443400
15	441500	434500	427900	426500	423900	419600	471400	475000	481400	495700	470900	442400
16	440800	434800	427900	426700	423400	418600	471100	474800	481300	495000	470300	441700
17	439500	434500	428000	426800	423700	418100	471500	474000	481100	494700	468800	440800
18	439200	434400	427500	426000	422400	418900	472300	474300	481100	493900	468200	440200
19	439100	433400	427200	426700	422300	418200	473500	474000	481100	492800	467200	439800
20	439200	433500	426800	425400	422700	418200	471700	474200	481100	492100	466600	438800
21	439400	433700	426300	425700	422700	417900	471500	474200	480300	491800	465900	437500
22	439100	433700	426400	425800	423000	418500	471400	473700	481100	491100	464600	437200
23	438400	432300	426500	425800	423100	418200	471700	473100	481000	490200	462600	436800
24	438200	431600	426100	425000	422600	418600	471200	471500	480500	489200	462200	435000
25	438200	431600	426500	424900	423200	423200	471200	471200	480800	488400	461100	433800
26	437800	431600	426500	424300	421900	434500	471400	471100	481800	487600	460000	433700
27	437500	431700	426300	424200	422300	446000	470900	471500	485100	486700	458800	433400
28	437200	431300	426500	423800	421700	452600	470500	471100	485600	486500	458000	433100
29	437100	431000	426800	423400	422300	456500	470300	471200	485600	485900	457100	432800
30	437400	430700	426400	423700	---	459600	472900	470900	487300	485200	456300	432700
31	437400	---	426100	423900	---	462000	---	470500	---	484600	455100	---
MAX	447700	438100	431100	427200	424200	462000	473500	479500	487300	498400	484100	454000
MIN	437100	430700	426100	423400	421700	417900	464000	470500	469800	484600	455100	432700
(+)	992.59	992.12	991.79	991.63	991.51	994.26	994.97	994.81	995.88	995.71	993.80	992.26
(@)	-10400	-6700	-4600	-2200	-1600	+39700	+10900	-2400	+16800	-2700	-29500	-22400

CAL YR 1999 MAX 544100 MIN 377600 (@) +45800
WTR YR 2000 MAX 498400 MIN 417900 (@) -15100

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

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued



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 mi^2, approximately, of which 9,566 mi^2 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 by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft). No known diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

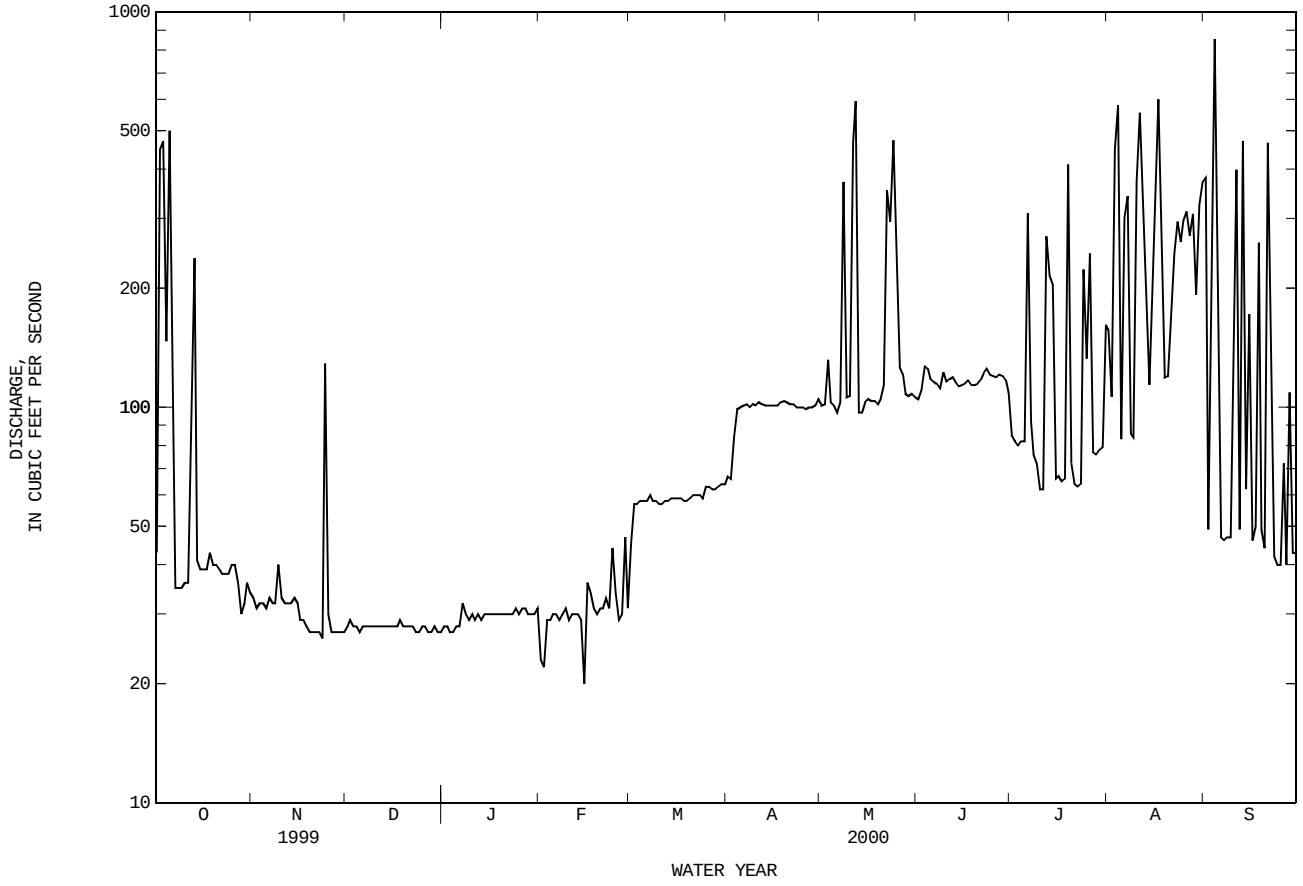
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	33	28	28	23	45	67	101	105	85	157	380
2	450	31	29	28	22	57	66	102	111	82	106	49
3	472	32	28	27	29	57	84	132	127	80	449	327
4	147	32	28	27	29	58	99	103	125	82	582	852
5	501	31	27	28	30	58	100	101	118	82	83	404
6	82	33	28	28	30	58	101	97	116	309	302	47
7	35	32	28	32	29	60	102	103	115	92	342	46
8	35	32	28	30	30	58	100	372	112	76	86	47
9	35	40	28	29	31	58	102	106	123	72	84	47
10	36	33	28	30	29	57	101	107	116	62	373	192
11	36	32	28	29	30	57	103	468	118	62	555	399
12	120	32	28	30	30	58	102	594	119	271	324	49
13	238	32	28	29	30	58	101	97	116	216	179	471
14	41	33	28	30	29	59	101	97	113	205	114	62
15	39	32	28	30	20	59	101	103	114	66	204	172
16	39	29	28	30	36	59	101	105	115	67	340	46
17	39	29	28	30	34	59	101	104	117	65	600	50
18	43	28	29	30	31	58	103	104	114	66	213	261
19	40	27	28	30	30	58	104	102	114	411	119	49
20	40	27	28	30	31	59	103	105	115	72	120	44
21	39	27	28	30	31	60	102	114	117	64	175	467
22	38	27	28	30	33	60	102	354	122	63	246	218
23	38	26	27	30	31	60	100	295	125	64	295	42
24	38	129	27	31	44	59	100	473	121	223	262	40
25	40	30	28	30	34	63	100	293	120	133	297	40
26	40	27	28	31	29	63	99	126	119	245	313	72
27	36	27	27	31	30	62	100	121	121	77	272	40
28	30	27	27	30	47	62	100	108	120	76	308	109
29	32	27	28	30	31	63	101	107	117	78	193	43
30	36	27	27	30	---	64	105	108	109	79	325	43
31	34	---	27	31	---	64	---	106	---	162	370	---
TOTAL	2912	1004	863	919	893	1830	2951	5408	3514	3787	8388	5108
MEAN	93.9	33.5	27.8	29.6	30.8	59.0	98.4	174	117	122	271	170
MAX	501	129	29	32	47	64	105	594	127	411	600	852
MIN	30	26	27	27	20	45	66	97	105	62	83	40
AC-FT	5780	1990	1710	1820	1770	3630	5850	10730	6970	7510	16640	10130

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

MEAN	381	259	898	364	1179	955	1113	1516	2167	483	562	634
MAX	1819	656	7172	2197	8659	4948	7952	8503	8024	1201	1228	1751
(WY)	1992	1992	1992	1992	1992	1992	1990	1990	1992	1992	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	153
(WY)	1999	2000	2000	2000	1999	1999	1999	1996	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	62122		37577			
ANNUAL MEAN	170		103		872	
HIGHEST ANNUAL MEAN					3170	1992
LOWEST ANNUAL MEAN					103	2000
HIGHEST DAILY MEAN	1350	Jul 26	852	Sep 4	43800	May 5 1990
LOWEST DAILY MEAN	22	Feb 14	20	Feb 15	4.1	Oct 31 1998
ANNUAL SEVEN-DAY MINIMUM	22	Feb 13	27	Nov 17	6.6	Oct 29 1998
INSTANTANEOUS PEAK FLOW			2770	Sep 4	43800	May 5 1990
INSTANTANEOUS PEAK STAGE			71.12	Sep 4	89.79	Apr 26 1990
ANNUAL RUNOFF (AC-FT)	123200		74530		631600	
10 PERCENT EXCEEDS	518		265		1460	
50 PERCENT EXCEEDS	65		60		182	
90 PERCENT EXCEEDS	27		28		33	

08088610 BRAZOS RIVER NEAR GRAFORD, TX--Continued



08089000 BRAZOS RIVER NEAR PALO PINTO, TX

LOCATION.--Lat 32°51′45", long 98°18′08", Palo Pinto County, Hydrologic Unit 12060201, on right bank 25 ft upstream from bridge on Farm Road 4, 300 ft downstream from Dark Valley Creek, 6.5 mi north of Palo Pinto, and at mile 667.3.

DRAINAGE AREA.--23,811 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Feb 1924 to current year. Prior to Oct 1933, published as "near Mineral Wells".

REVISED RECORDS.--WSP 1512: 1924-25, 1929, 1932-34. WSP 1712: 1935-36, 1937-38(M), 1939, 1940(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 834.23 ft above sea level. Prior to Nov 15, 1933, nonrecording gage at site 19 mi downstream at datum 38.19 ft lower. Nov 15, 1933 to Apr 10, 1989 at location 125 ft upstream from present site at datum 3.00 ft higher. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1941, at least 10% of contributing drainage area has been regulated by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft) 20 mi upstream. No known diversions.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--16 years (water years 1925-40) prior to completion of Possum Kingdom Lake, 1,262 ft^3/s (724,700 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-40).--Maximum discharge, 95,600 ft^3/s Jun 16, 1930, at site then in use (gage height, 30 ft, present site and datum); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage occurred in 1876, from data by U.S. Army Corps of Engineers, and was several feet higher than the flood of Jun 16, 1930, which reached a stage of about 30 ft and was the highest since at least 1876.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	50	36	41	49	63	74	162	80	139	174	397
2	71	45	36	41	49	67	94	111	75	106	180	401
3	551	42	35	41	45	90	75	100	234	96	128	85
4	552	39	37	37	42	82	84	135	1280	93	428	328
5	169	39	36	36	44	80	110	126	199	115	472	906
6	528	35	36	34	50	67	124	124	112	102	121	435
7	86	31	35	42	51	71	128	110	90	342	309	79
8	52	34	34	66	52	72	129	90	86	143	364	49
9	45	33	43	63	52	66	123	344	89	98	111	42
10	43	38	42	58	49	63	120	117	107	105	78	40
11	41	39	43	56	48	71	138	91	101	122	331	149
12	39	36	50	57	51	74	187	466	92	140	495	401
13	89	35	45	53	53	74	145	639	89	373	274	78
14	234	33	41	53	47	77	126	107	82	300	140	419
15	80	32	39	55	48	78	119	85	85	293	85	80
16	51	33	38	57	45	76	113	81	80	115	137	128
17	64	36	38	59	45	76	114	86	122	118	274	59
18	53	35	42	55	44	74	106	78	151	102	499	31
19	52	34	43	55	40	76	95	103	115	106	180	173
20	50	35	42	53	47	74	88	117	101	452	83	66
21	47	34	41	52	49	73	84	96	95	133	60	37
22	44	35	40	52	52	80	85	88	90	118	92	405
23	43	37	40	52	55	83	85	289	93	85	188	217
24	43	33	41	49	55	81	84	259	92	80	243	63
25	43	105	40	49	52	79	83	428	97	224	267	39
26	44	82	42	49	61	99	81	248	90	175	323	34
27	44	49	41	49	55	89	77	114	92	258	319	46
28	44	39	41	48	49	73	85	117	97	102	303	e39
29	42	37	40	50	52	66	117	82	84	70	335	e99
30	52	36	41	50	---	67	130	80	106	68	221	e43
31	56	---	40	49	---	66	---	96	---	69	340	---
TOTAL	3397	1221	1238	1561	1431	2327	3203	5169	4306	4842	7554	5368
MEAN	110	40.7	39.9	50.4	49.3	75.1	107	167	144	156	244	179
MAX	552	105	50	66	61	99	187	639	1280	452	499	906
MIN	39	31	34	34	40	63	74	78	75	68	60	31
AC-FT	6740	2420	2460	3100	2840	4620	6350	10250	8540	9600	14980	10650

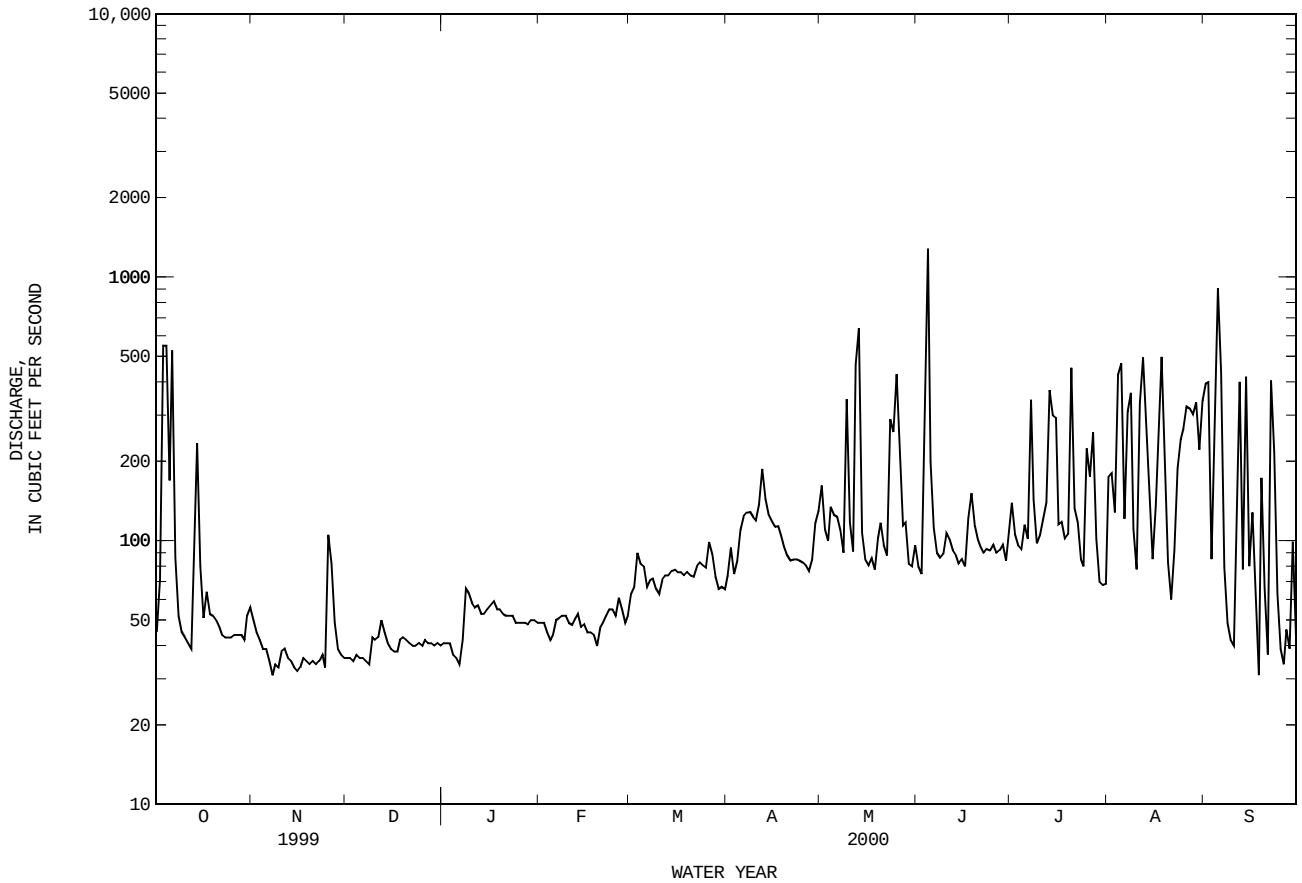
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000z, BY WATER YEAR (WY)

MEAN	1318	509	470	420	561	517	860	2016	1783	866	736	1000
MAX	13140	3020	7800	2254	9064	5280	8881	30210	10540	3971	7486	7650
(WY)	1942	1975	1992	1992	1992	1992	1957	1957	1941	1961	1978	1966
MIN	22.6	34.1	29.5	25.7	12.4	23.0	26.5	26.9	53.8	34.2	78.9	30.4
(WY)	1953	1953	1955	1953	1971	1976	1971	1971	1978	1971	1988	1988

08089000 BRAZOS RIVER NEAR PALO PINTO, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000z	
ANNUAL TOTAL	72156.3		41617			
ANNUAL MEAN	198		114		923	
HIGHEST ANNUAL MEAN					4145	1957
LOWEST ANNUAL MEAN					98.5	1988
HIGHEST DAILY MEAN	2260	Mar 19	1280	Jun 4	81700	Apr 29 1957
LOWEST DAILY MEAN	8.5	Sep 26	31	Nov 7	3.4	Apr 15 1949
ANNUAL SEVEN-DAY MINIMUM	24	Jan 21	34	Nov 13	5.6	Nov 2 1940
INSTANTANEOUS PEAK FLOW			4460	Jun 4	85400	Apr 29 1957
INSTANTANEOUS PEAK STAGE			6.89	Jun 4	28.87	Apr 29 1957
ANNUAL RUNOFF (AC-FT)	143100		82550		668400	
10 PERCENT EXCEEDS	672		269		1660	
50 PERCENT EXCEEDS	55		77		207	
90 PERCENT EXCEEDS	33		39		30	

e Estimated
z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Apr 1964 to Sep 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 good. The lake is formed by a rock-faced earthfill dam 1,300 ft long with a 550 ft 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 and the spillway crest was raised 4 ft and lengthened from 500 to 550 ft. 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 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 pool storage is 42,200 acre-ft. Data regarding the dam 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 the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,060 acre-ft, Oct 31, 1974, elevation, 871.15 ft; minimum contents, 7,460 acre-ft, Sep 30, 2000, elevation, 854.92 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 28,270 acre-ft, Jun 26, elevation, 867.27 ft; minimum contents, 10,760 acre-ft, Mar 17, elevation, 857.59 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,120 acre-ft, Oct 1, elevation, 862.88 ft; minimum contents, 7,460 acre-ft, Sep 30, elevation, 854.92 ft.

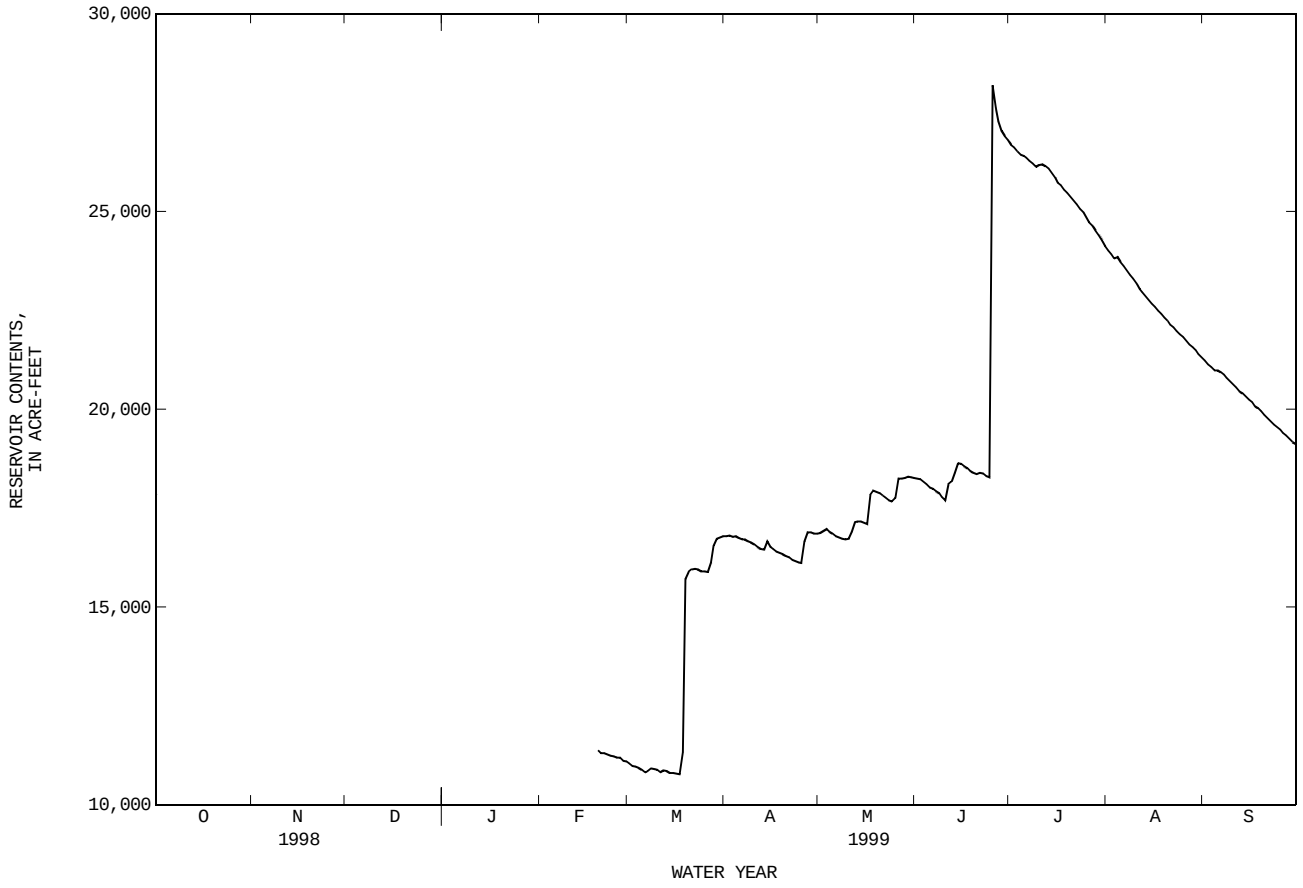
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	11050	16800	16880	18250	26680	24020	21230
2	---	---	---	---	---	10990	16820	16930	18230	26620	23920	21140
3	---	---	---	---	---	10970	16780	16970	18170	26520	23830	21070
4	---	---	---	---	---	10940	16800	16910	18100	26450	23860	20990
5	---	---	---	---	---	10890	16750	16860	18030	26410	23720	20990
6	---	---	---	---	---	10820	16710	16800	17990	26360	23630	20940
7	---	---	---	---	---	10850	16710	16760	17930	26290	23510	20880
8	---	---	---	---	---	10920	16670	16730	17880	26220	23400	20790
9	---	---	---	---	---	10900	16640	16710	17780	26130	23300	20710
10	---	---	---	---	---	10890	16580	16730	17710	26180	23190	20640
11	---	---	---	---	---	10820	16520	16910	18100	26200	23050	20550
12	---	---	---	---	---	10870	16470	17150	18170	26160	22960	20450
13	---	---	---	---	---	10850	16450	17170	18400	26090	22860	20400
14	---	---	---	---	---	10810	16670	17170	18640	25970	22770	20320
15	---	---	---	---	---	10800	16520	17140	18620	25860	22680	20250
16	---	---	---	---	---	10790	16470	17100	18560	25740	22590	20180
17	---	---	---	---	---	10770	16410	17840	18510	25670	22490	20080
18	---	---	---	---	---	11320	16380	17950	18450	25560	22420	20030
19	---	---	---	---	11370	15710	16340	17910	18400	25470	22310	19950
20	---	---	---	---	11310	15890	16300	17880	18360	25370	22230	19860
21	---	---	---	---	11310	15950	16260	17820	18400	25280	22140	19770
22	---	---	---	---	11270	15970	16190	17770	18380	25190	22070	19690
23	---	---	---	---	11240	15950	16170	17710	18320	25070	21970	19620
24	---	---	---	---	11220	15910	16130	17670	18290	24980	21900	19550
25	---	---	---	---	11200	15910	16120	17750	28200	24870	21830	19490
26	---	---	---	---	11190	15890	16670	18250	27630	24730	21730	19400
27	---	---	---	---	11120	16130	16890	18250	27280	24640	21640	19340
28	---	---	---	---	11100	16560	16890	18270	27050	24520	21570	19250
29	---	---	---	---	---	16730	16860	18300	26910	24410	21490	19180
30	---	---	---	---	---	16760	16860	18290	26820	24270	21400	19120
31	---	---	---	---	---	16800	---	18270	---	24130	21310	---
MAX	---	---	---	---	---	16800	16890	18300	28200	26680	24020	21230
MIN	---	---	---	---	---	10770	16120	16710	17710	24130	21310	19120
(+)					857.86	861.63	861.66	862.42	866.64	865.47	864.06	862.88
(@)						+5700	+60	+1410	+8550	-2690	-2820	-2190

WTR YR 1999 MAX 28270 MIN 10760

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

08090300 LAKE PALO PINTO NEAR SANTO, TX--Continued



08090300 LAKE PALO PINTO NEAR SANTO, TX--Continued

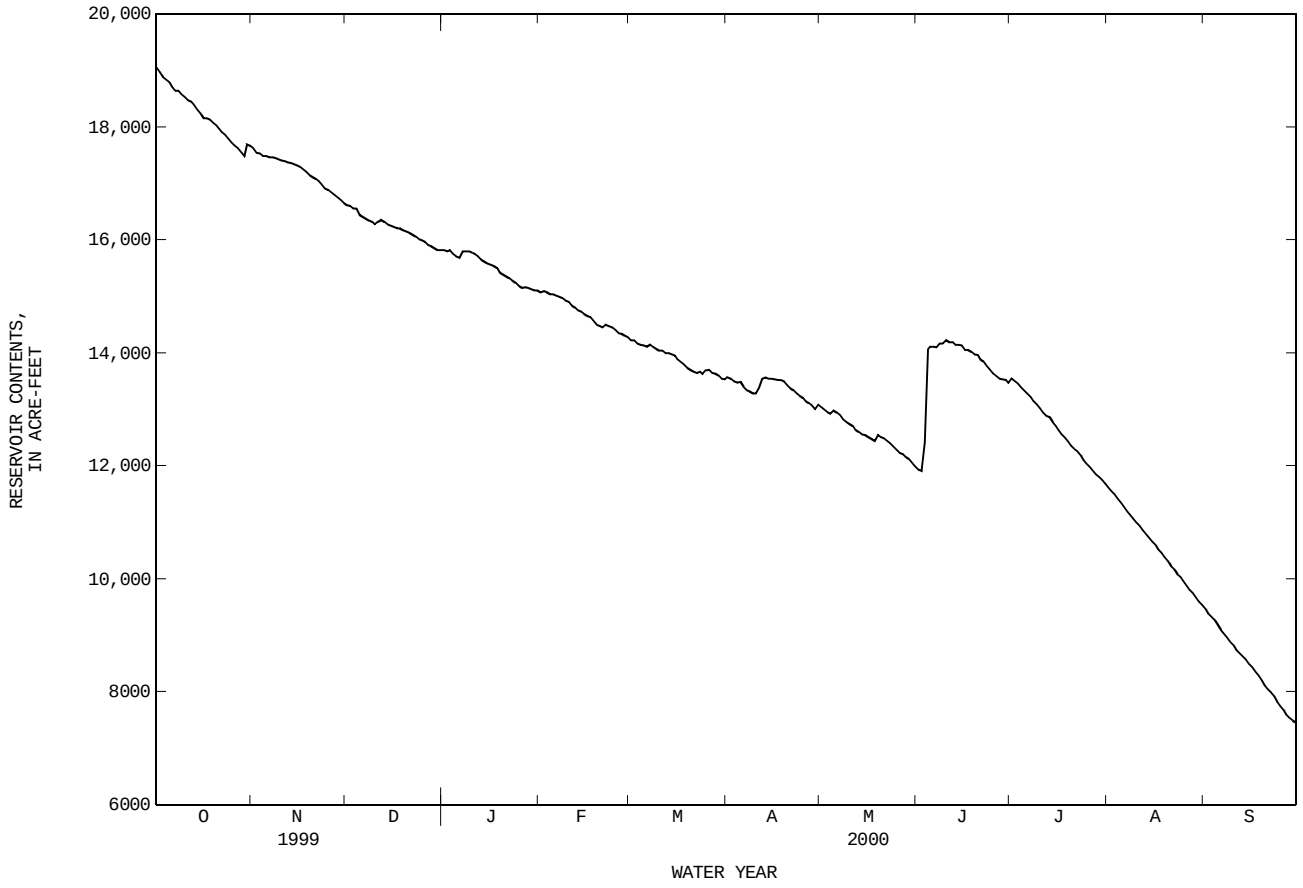
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19050	17620	16620	15820	15080	14220	13570	13030	11940	13550	11620	9460
2	18970	17540	16600	15800	15100	14220	13540	12990	11910	13500	11550	9390
3	18880	17530	16560	15820	15080	14170	13500	12950	12410	13450	11490	9330
4	18840	17490	16560	15750	15040	14150	13480	12920	14060	13390	11410	9270
5	18790	17490	16450	15710	15040	14130	13490	12980	14110	13330	11350	9180
6	18710	17470	16410	15690	15020	14110	13400	12940	14110	13270	11270	9090
7	18640	17470	16380	15800	15000	14150	13340	12900	14100	13220	11190	9020
8	18640	17450	16340	15800	14970	14110	13320	12820	14170	13150	11120	8960
9	18580	17430	16320	15800	14930	14080	13280	12780	14170	13090	11060	8880
10	18530	17410	16280	15780	14910	14040	13280	12740	14220	13020	11000	8820
11	18470	17400	16320	15760	14840	14040	13390	12710	14190	12950	10940	8740
12	18450	17380	16360	15710	14800	14000	13540	12640	14190	12890	10860	8680
13	18380	17360	16320	15650	14760	14000	13570	12610	14150	12870	10790	8630
14	18320	17340	16280	15620	14730	13980	13550	12560	14150	12780	10720	8570
15	18250	17320	16250	15580	14690	13950	13550	12550	14130	12710	10660	8490
16	18160	17300	16230	15560	14650	13890	13530	12510	14060	12640	10600	8430
17	18160	17250	16210	15540	14630	13840	13520	12480	14060	12560	10520	8350
18	18140	17210	16210	15500	14560	13800	13520	12450	14020	12500	10460	8290
19	18080	17150	16170	15430	14500	13740	13500	12550	13980	12440	10380	8220
20	18030	17120	16150	15390	14470	13700	13430	12510	13970	12360	10310	8120
21	17970	17080	16130	15360	14450	13670	13380	12490	13890	12300	10230	8050
22	17910	17040	16100	15320	14500	13650	13340	12450	13850	12250	10170	7990
23	17860	16970	16060	15280	14470	13670	13290	12400	13770	12190	10080	7920
24	17800	16910	16020	15240	14450	13630	13240	12340	13700	12110	10030	7820
25	17730	16890	15990	15190	14410	13690	13200	12290	13640	12040	9960	7740
26	17670	16840	15970	15150	14350	13700	13150	12230	13590	11980	9880	7680
27	17620	16800	15910	15170	14340	13650	13120	12210	13540	11910	9810	7600
28	17560	16750	15890	15150	14300	13640	13070	12160	13530	11850	9750	7540
29	17490	16710	15860	15130	14280	13600	13000	12130	13520	11800	9670	7490
30	17690	16650	15820	15110	---	13550	13080	12060	13470	11740	9590	7460
31	17670	---	15820	15110	---	13530	---	11990	---	11670	9530	---
MAX	19050	17620	16620	15820	15100	14220	13570	13030	14220	13550	11620	9460
MIN	17490	16650	15820	15110	14280	13530	13000	11990	11910	11670	9530	7460
(+)	862.10	861.55	861.10	860.72	860.27	859.80	859.44	858.57	859.75	858.32	856.61	854.92
(@)	-1450	-1020	-830	-710	-830	-750	-450	-1090	+1480	-1800	-2140	-2070

WTR YR 2000 MAX 19050 MIN 7460 (@) -11660

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

08090300 LAKE PALO PINTO NEAR SANTO, TX--Continued



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 on Rock Creek, 1.0 mi north of U.S. Highway 180, and 11.0 mi northeast of Mineral Wells.

DRAINAGE AREA.--63 mi^2.

PERIOD OF RECORD.--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 good. 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. Water is used for municipal, industrial, and recreational uses. Conservation pool storage is 6,760 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	880.0
Conservation pool elevation	865.4

COOPERATION.--Capacity table 1-C dated Feb 1999 was provided by the Texas Water Development Board.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 6,130 acre-ft, Jun 4, 2000, elevation, 864.25 ft; minimum contents, 3,870 acre-ft, Mar 1, 2, 2000, elevation, 858.97 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 6,080 acre-ft, Jun 12, elevation, 864.16 ft; minimum contents, 4,420 acre-ft, Sep 30, elevation, 860.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 6,130 acre-ft, Jun 4, elevation, 864.25 ft; minimum contents, 3,870 acre-ft, Mar 1, 2, elevation, 858.97 ft.

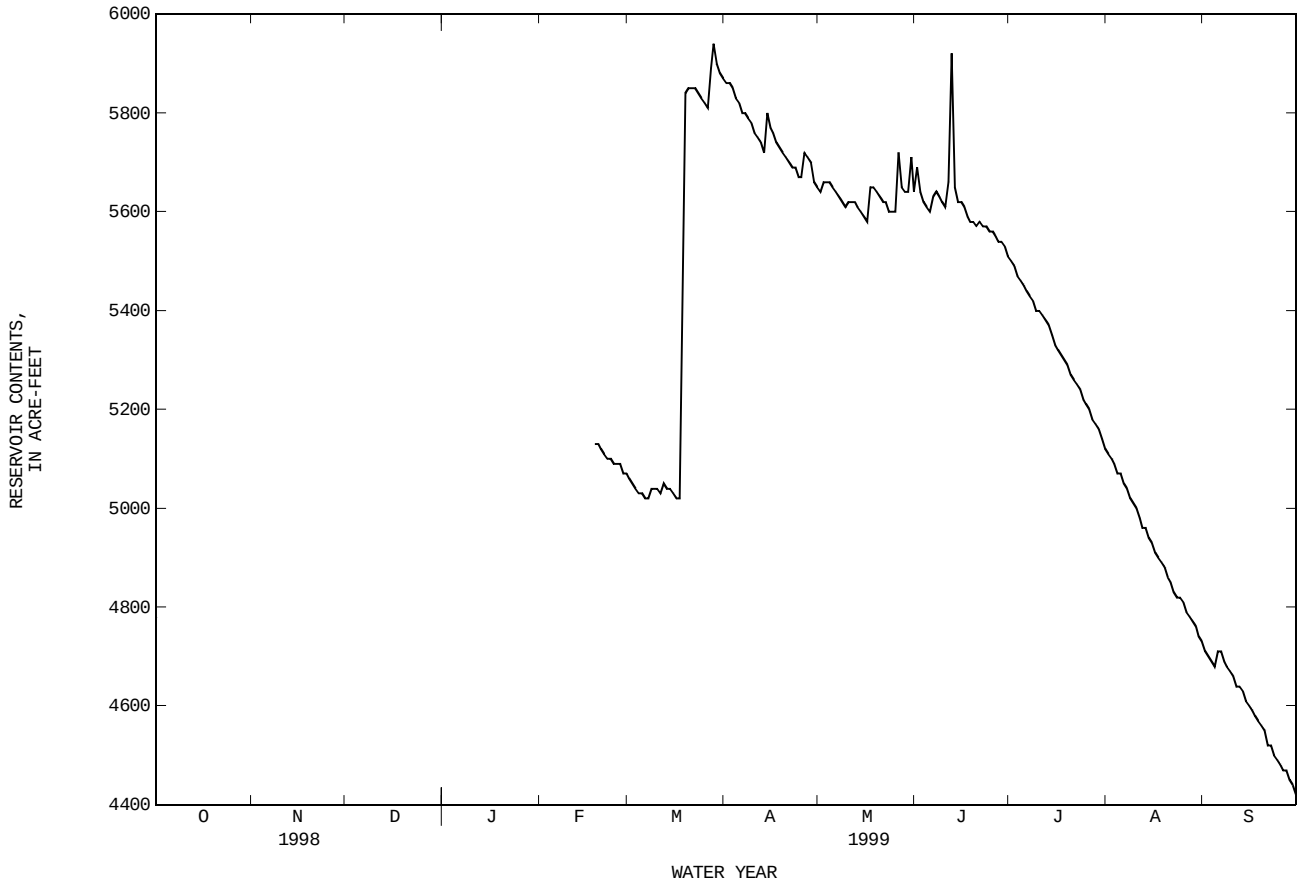
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	5060	5860	5640	5690	5500	5110	4710
2	---	---	---	---	---	5050	5860	5660	5640	5490	5100	4700
3	---	---	---	---	---	5040	5850	5660	5620	5470	5090	4690
4	---	---	---	---	---	5030	5830	5660	5610	5460	5070	4680
5	---	---	---	---	---	5030	5820	5650	5600	5450	5070	4710
6	---	---	---	---	---	5020	5800	5640	5630	5440	5050	4710
7	---	---	---	---	---	5020	5800	5630	5640	5430	5040	4690
8	---	---	---	---	---	5040	5790	5620	5630	5420	5020	4680
9	---	---	---	---	---	5040	5780	5610	5620	5400	5010	4670
10	---	---	---	---	---	5040	5760	5620	5610	5400	5000	4660
11	---	---	---	---	---	5030	5750	5620	5660	5390	4980	4640
12	---	---	---	---	---	5050	5740	5620	5920	5380	4960	4640
13	---	---	---	---	---	5040	5720	5610	5650	5370	4960	4630
14	---	---	---	---	---	5040	5800	5600	5620	5350	4940	4610
15	---	---	---	---	---	5030	5770	5590	5620	5330	4930	4600
16	---	---	---	---	---	5020	5760	5580	5610	5320	4910	4590
17	---	---	---	---	---	5020	5740	5650	5590	5310	4900	4580
18	---	---	---	---	5130	5590	5730	5650	5580	5300	4890	4570
19	---	---	---	---	5130	5840	5720	5640	5580	5290	4880	4560
20	---	---	---	---	5120	5850	5710	5630	5570	5270	4860	4550
21	---	---	---	---	5110	5850	5700	5620	5580	5260	4850	4520
22	---	---	---	---	5100	5850	5690	5620	5570	5250	4830	4520
23	---	---	---	---	5100	5840	5690	5600	5570	5240	4820	4500
24	---	---	---	---	5090	5830	5670	5600	5560	5220	4820	4490
25	---	---	---	---	5090	5820	5670	5600	5560	5210	4810	4480
26	---	---	---	---	5090	5810	5720	5720	5550	5200	4790	4470
27	---	---	---	---	5070	5890	5710	5650	5540	5180	4780	4470
28	---	---	---	---	5070	5940	5700	5640	5540	5170	4770	4450
29	---	---	---	---	---	5900	5660	5640	5530	5160	4760	4440
30	---	---	---	---	---	5880	5650	5710	5510	5140	4740	4420
31	---	---	---	---	---	5870	---	5640	---	5120	4730	---
MAX	---	---	---	---	---	5940	5860	5720	5920	5500	5110	4710
MIN	---	---	---	---	---	5020	5650	5580	5510	5120	4730	4420
(+)					861.99	863.77	863.37	863.35	863.04	862.12	861.19	860.47
(@)						+800	-220	-10	-130	-390	-390	-310

WTR YR 1999 MAX 6080 MIN 4420

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

08090700 LAKE MINERAL WELLS NEAR MINERAL WELLS, TX--Continued



08090700 LAKE MINERAL WELLS NEAR MINERAL WELLS, TX--Continued

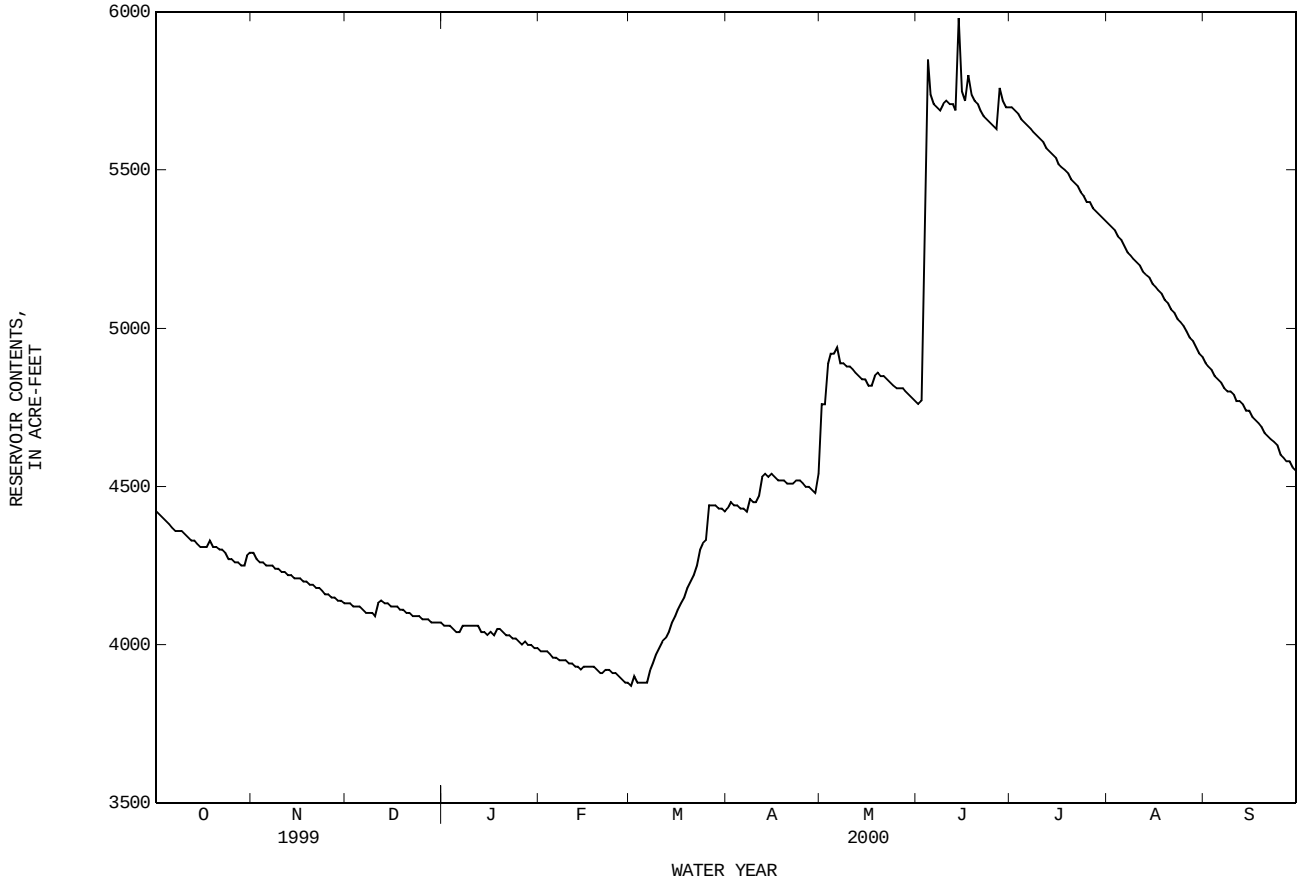
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4420	4290	4130	4060	3980	3870	4430	4760	4760	5700	5330	4890
2	4410	4270	4130	4060	3980	3900	4450	4760	4770	5690	5320	4880
3	4400	4260	4120	4060	3980	3880	4440	4890	5190	5680	5310	4870
4	4390	4260	4120	4050	3970	3880	4440	4920	5850	5660	5290	4850
5	4380	4250	4120	4040	3960	3880	4430	4920	5740	5650	5280	4840
6	4370	4250	4110	4040	3960	3880	4430	4940	5710	5640	5260	4830
7	4360	4250	4100	4060	3950	3920	4420	4890	5700	5630	5240	4810
8	4360	4240	4100	4060	3950	3940	4460	4890	5690	5620	5230	4800
9	4360	4240	4100	4060	3950	3970	4450	4880	5710	5610	5220	4800
10	4350	4230	4090	4060	3940	3990	4450	4880	5720	5600	5210	4790
11	4340	4230	4130	4060	3940	4010	4470	4870	5710	5590	5200	4770
12	4330	4220	4140	4060	3930	4020	4530	4860	5710	5570	5180	4770
13	4330	4220	4130	4040	3930	4040	4540	4850	5690	5560	5170	4760
14	4320	4210	4130	4040	3920	4070	4530	4840	5980	5550	5160	4740
15	4310	4210	4120	4030	3930	4090	4540	4840	5750	5540	5140	4740
16	4310	4210	4120	4040	3930	4110	4530	4820	5720	5520	5130	4720
17	4310	4200	4120	4030	3930	4130	4520	4820	5800	5510	5120	4710
18	4330	4200	4110	4050	3930	4150	4520	4850	5740	5500	5110	4700
19	4310	4190	4110	4050	3920	4180	4520	4860	5720	5490	5090	4690
20	4310	4190	4100	4040	3910	4200	4510	4850	5710	5470	5080	4670
21	4300	4180	4100	4030	3910	4220	4510	4850	5690	5460	5060	4660
22	4300	4180	4090	4030	3920	4250	4510	4840	5670	5450	5050	4650
23	4290	4170	4090	4020	3920	4300	4520	4830	5660	5430	5030	4640
24	4270	4160	4090	4020	3910	4320	4520	4820	5650	5420	5020	4630
25	4270	4160	4080	4010	3910	4330	4510	4810	5640	5400	5010	4600
26	4260	4150	4080	4000	3900	4440	4500	4810	5630	5400	4990	4590
27	4260	4150	4080	4010	3890	4440	4500	4810	5760	5380	4970	4580
28	4250	4140	4070	4000	3880	4440	4490	4800	5720	5370	4960	4580
29	4250	4140	4070	4000	3880	4430	4480	4790	5700	5360	4940	4560
30	4280	4130	4070	3990	---	4430	4540	4780	5700	5350	4920	4550
31	4290	---	4070	3990	---	4420	---	4770	---	5340	4910	---
MAX	4420	4290	4140	4060	3980	4440	4540	4940	5980	5700	5330	4890
MIN	4250	4130	4070	3990	3880	3870	4420	4760	4760	5340	4910	4550
(+)	860.15	859.74	859.54	859.31	858.99	860.47	860.74	861.28	863.47	862.64	861.61	860.77
(@)	-130	-160	-60	-80	-110	+540	+120	+230	+930	-360	-430	-360

WTR YR 2000 MAX 5980 MIN 3870 (@) +130

(+) Elevation, 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

LOCATION.--Lat 32°36′56", long 97°55′32", Parker County, Hydrologic Unit 12060201, on right bank at downstream side of highway embankment of bridge on Farm Road 1189, 0.2 mi south of Dennis, 1.0 mi upstream from Patrick Creek, and at mile 589.8.

DRAINAGE AREA.--25,237 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--May 1968 to current year.
Water-quality records.--Chemical data: Oct 1970 to Sep 1995. Specific conductance: Oct 1970 to Sep 1995. Water temperature: Oct 1970 to Sep 1995.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 697.67 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in May 1968, at least 10% of contributing drainage area has been regulated by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft) 96 mi upstream on the Brazos River, and by Lake Palo Pinto (station 08090300, conservation pool storage 42,200 acre-ft) upstream on Palo Pinto Creek. Flow may be affected at times by discharge from the flood-detention pools of twelve floodwater retarding structures with a combined detention capacity of 13,840 acre-ft. These structures control runoff from 53.0 mi^2 in the East Keechi and Pollard Creeks drainage basins. There are many diversions above station for irrigation, municipal supply and oil field operations. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1930, 31.8 ft in May 1957, from floodmark, from information by Texas Department of Transportation.

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

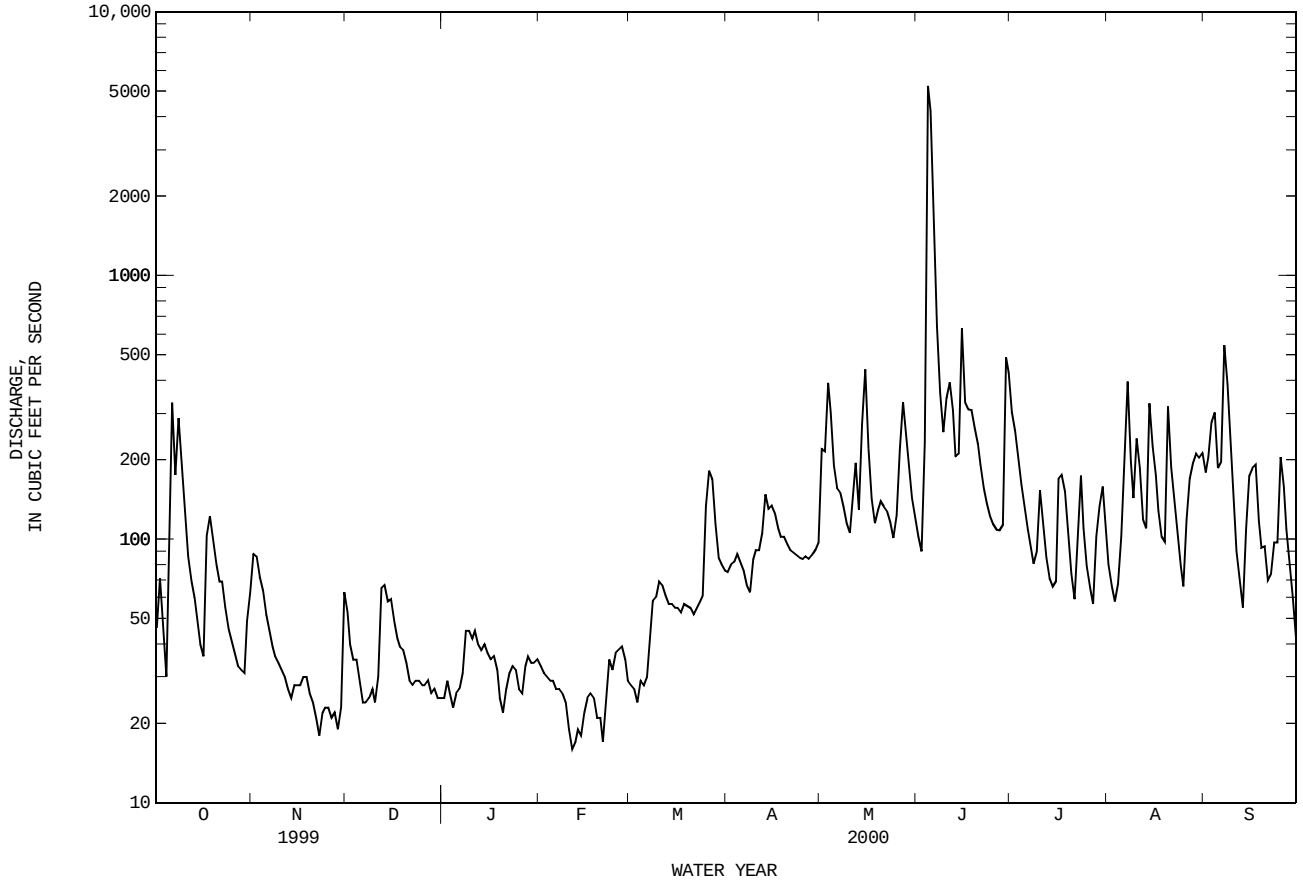
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	88	53	25	33	28	75	220	102	305	80	179
2	71	86	40	29	31	27	80	216	90	259	67	205
3	45	72	35	26	30	24	82	392	232	204	58	279
4	30	64	35	23	29	29	88	303	5230	161	68	302
5	108	52	29	26	29	28	82	190	4220	133	102	186
6	329	45	24	27	27	30	76	156	1690	109	194	197
7	175	39	24	31	27	45	67	150	642	92	395	543
8	288	36	25	45	26	58	63	133	357	81	197	388
9	184	34	27	45	24	60	84	115	255	90	143	207
10	120	32	24	42	19	69	91	106	345	153	240	129
11	86	30	30	45	16	67	91	149	394	111	186	90
12	70	27	65	40	17	61	106	194	308	85	119	70
13	60	25	67	38	19	57	148	129	206	71	110	55
14	50	28	58	40	18	57	130	273	210	66	327	109
15	40	28	59	37	22	55	134	440	630	69	225	174
16	36	28	49	35	25	55	125	221	330	169	175	186
17	103	30	42	36	26	53	110	142	311	175	128	191
18	122	30	39	32	25	57	102	115	310	152	102	117
19	99	26	38	25	21	56	102	129	265	103	98	93
20	81	24	34	22	21	55	96	139	230	74	318	94
21	69	21	29	27	17	52	91	133	191	59	187	70
22	69	18	28	31	24	55	89	128	157	97	138	74
23	55	22	29	33	35	58	87	116	137	174	106	97
24	46	23	29	32	32	61	85	101	122	110	79	97
25	41	23	28	27	37	133	84	123	114	79	66	204
26	37	21	28	26	38	182	86	219	109	66	118	158
27	33	22	29	33	39	169	84	331	108	57	170	109
28	32	19	26	36	35	114	87	271	113	102	194	79
29	31	23	27	34	29	85	91	201	490	133	211	60
30	49	63	25	34	---	80	97	143	430	158	203	42
31	63	---	25	35	---	76	---	120	---	108	212	---
TOTAL	2668	1079	1100	1017	771	2036	2813	5798	18328	3805	5016	4784
MEAN	86.1	36.0	35.5	32.8	26.6	65.7	93.8	187	611	123	162	159
MAX	329	88	67	45	39	182	148	440	5230	305	395	543
MIN	30	18	24	22	16	24	63	101	90	57	58	42
AC-FT	5290	2140	2180	2020	1530	4040	5580	11500	36350	7550	9950	9490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	1511	702	779	465	936	1032	1072	1911	2088	680	832	774
MAX	17690	5000	12240	2835	9530	5970	13320	12090	13490	4376	7600	3680
(WY)	1982	1975	1992	1992	1992	1992	1990	1990	1982	1982	1978	1996
MIN	69.6	36.0	35.5	32.8	26.6	26.7	27.1	30.4	61.7	37.0	56.6	14.9
(WY)	1983	2000	2000	2000	2000	1971	1971	1988	1971	1978	1988	1984

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	85334.4		49215			
ANNUAL MEAN	234		134		1065	
HIGHEST ANNUAL MEAN					4141	1982
LOWEST ANNUAL MEAN					120	1988
HIGHEST DAILY MEAN	6530	Mar 20	5230	Jun 4	87700	Oct 14 1981
LOWEST DAILY MEAN	9.4	Mar 3	16	Feb 11	1.2	Aug 2 1978
ANNUAL SEVEN-DAY MINIMUM	14	Feb 28	19	Feb 9	3.0	Jul 29 1978
INSTANTANEOUS PEAK FLOW			8640	Jun 4	96600	Oct 14 1981
INSTANTANEOUS PEAK STAGE			11.71	Jun 4	31.85	Oct 14 1981
ANNUAL RUNOFF (AC-FT)	169300		97620		771300	
10 PERCENT EXCEEDS	643		226		2040	
50 PERCENT EXCEEDS	111		76		267	
90 PERCENT EXCEEDS	23		26		46	

08090800 BRAZOS RIVER NEAR DENNIS, TX--Continued



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 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Oct 1968 to current year.
Water-quality records.--Chemical data: Sep 1970 to Sep 1997. Biochemical data: Sep 1970 to Sep 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 good. 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 Sep 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 inverts 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 mi^2 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 is 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, 136,300 acre-ft, Jun 4, elevation, 692.93 ft; minimum contents, 114,800 acre-ft, Mar 20, elevation, 690.11 ft.

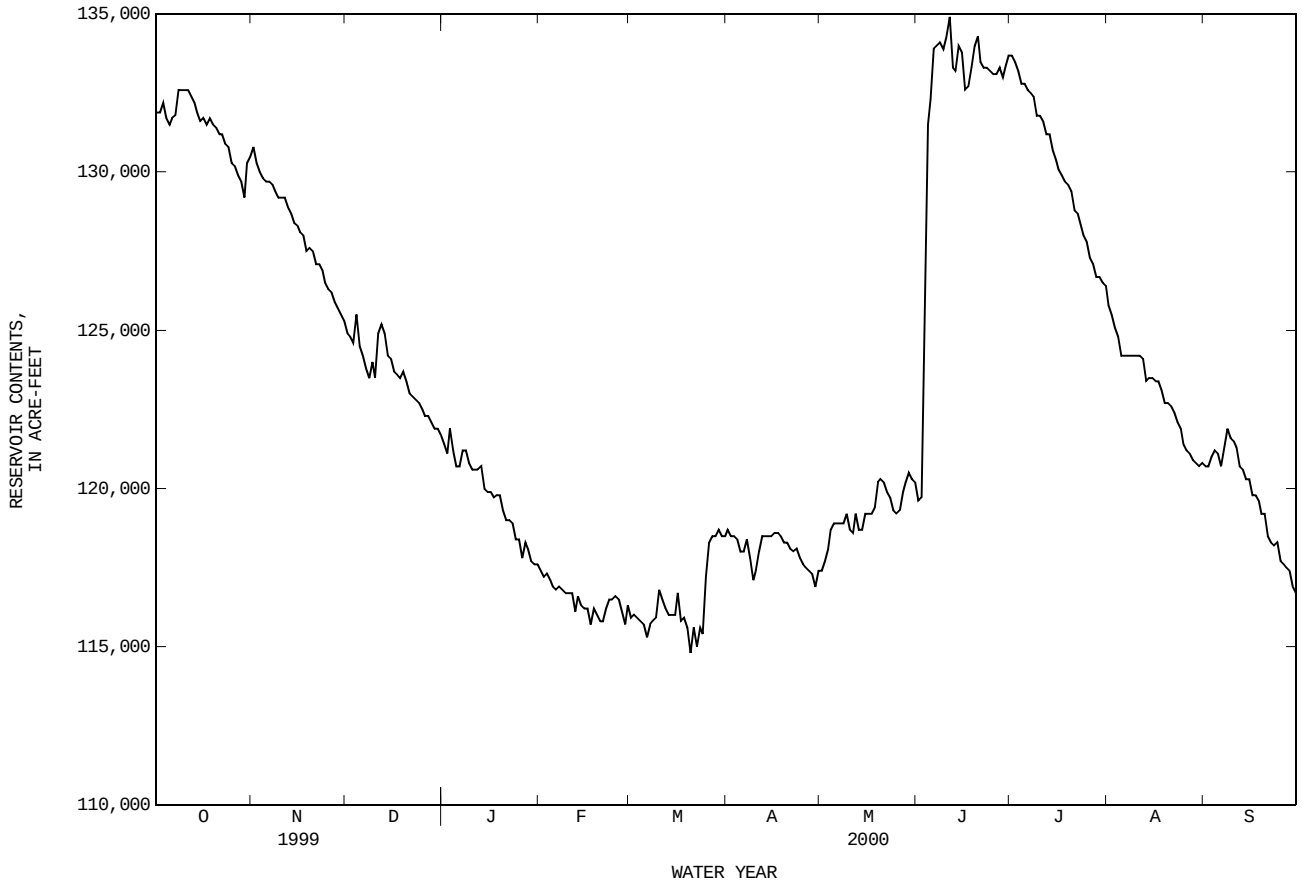
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131900	130800	124900	121400	117400	115900	118700	117400	119600	133700	125800	120700
2	131900	130300	124800	121100	117200	116000	118500	117700	119700	133500	125500	120700
3	132200	130000	124600	121900	117300	115900	118500	118100	123900	133200	125100	121000
4	131700	129800	125500	121200	117100	115800	118400	118700	131500	132800	124800	121200
5	131500	129700	124500	120700	116900	115700	118000	118900	132300	132800	124200	121100
6	131700	129700	124200	120700	116800	115300	118000	118900	133900	132600	124200	120700
7	131800	129600	123800	121200	116900	115700	118400	118900	134000	132500	124200	121300
8	132600	129400	123500	121200	116800	115800	117800	118900	134100	132400	124200	121900
9	132600	129200	124000	120800	116700	115900	117100	119200	133900	131800	124200	121600
10	132600	129200	123500	120600	116700	116800	117400	118700	134300	131800	124200	121500
11	132600	129200	124900	120600	116700	116500	118000	118600	134900	131600	124200	121300
12	132400	128900	125200	120600	116100	116200	118500	119200	133300	131200	124100	120700
13	132200	128700	124900	120700	116600	116000	118500	118700	133200	131200	123400	120600
14	131900	128400	124200	120000	116300	116000	118500	118700	134000	130700	123500	120300
15	131600	128300	124100	119900	116200	116000	118500	119200	133800	130400	123500	120300
16	131700	128100	123700	119900	116200	116700	118600	119200	132600	130100	123400	119800
17	131500	128000	123600	119700	115700	115800	118600	119200	132700	129900	123400	119800
18	131700	127500	123500	119800	116200	115900	118500	119400	133300	129700	123100	119600
19	131500	127600	123700	119800	116000	115600	118300	120200	134000	129600	122700	119200
20	131400	127500	123400	119300	115800	114800	118300	120300	134300	129400	122700	119200
21	131200	127100	123000	119000	115800	115600	118100	120200	133500	128800	122600	118500
22	131200	127100	122900	119000	116200	115000	118000	119900	133300	128700	122400	118300
23	130900	126900	122800	118900	116500	115600	118100	119700	133300	128300	122100	118200
24	130800	126500	122700	118400	116500	115400	117800	119300	133200	128000	121900	118300
25	130300	126300	122500	118400	116600	117200	117600	119200	133100	127800	121400	117700
26	130200	126200	122300	117800	116500	118300	117500	119300	133100	127300	121200	117600
27	129900	125900	122300	118300	116100	118500	117400	119900	133300	127100	121100	117500
28	129700	125700	122100	118100	115700	118500	117300	120200	133000	126700	120900	117400
29	129200	125500	121900	117700	116300	118700	116900	120500	133400	126700	120800	116900
30	130300	125300	121900	117600	---	118500	117400	120300	133700	126500	120700	116700
31	130500	---	121700	117600	---	118500	---	120200	---	126400	120800	---
MAX	132600	130800	125500	121900	117400	118700	118700	120500	134900	133700	125800	121900
MIN	129200	125300	121700	117600	115700	114800	116900	117400	119600	126400	120700	116700
(+)	692.19	691.52	691.04	690.47	690.29	690.61	690.44	690.84	692.61	691.66	690.91	690.34
(@)	-2000	-5200	-3600	-4100	-1300	+2200	-1100	+2800	+13500	-7300	-5600	-4100

CAL YR 1999 MAX 134900 MIN 121700 (@) -9500
WTR YR 2000 MAX 134900 MIN 114800 (@) -15800

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

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued



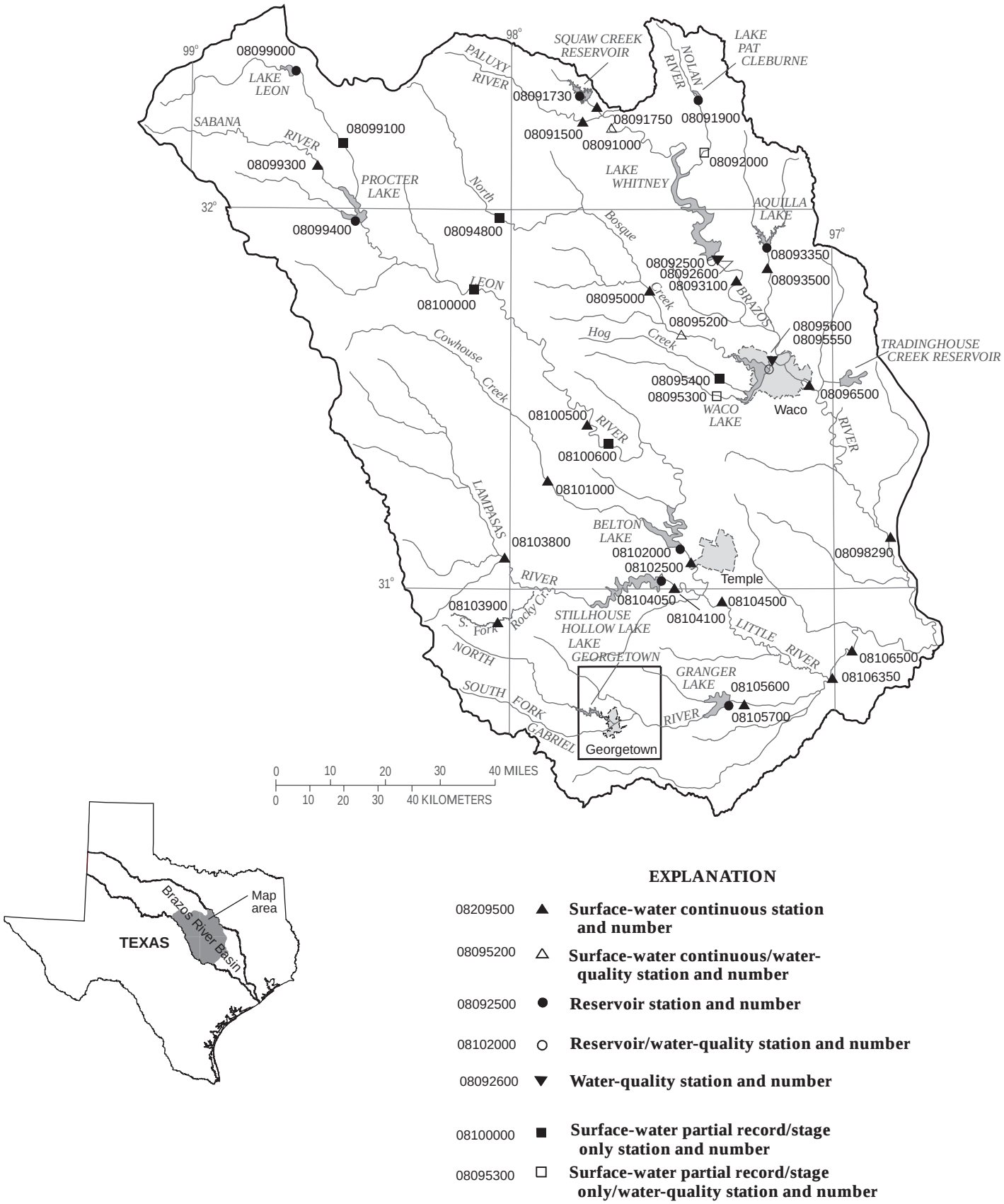


Figure 7.--Map showing location of gaging stations in the third section of the Brazos River Basin

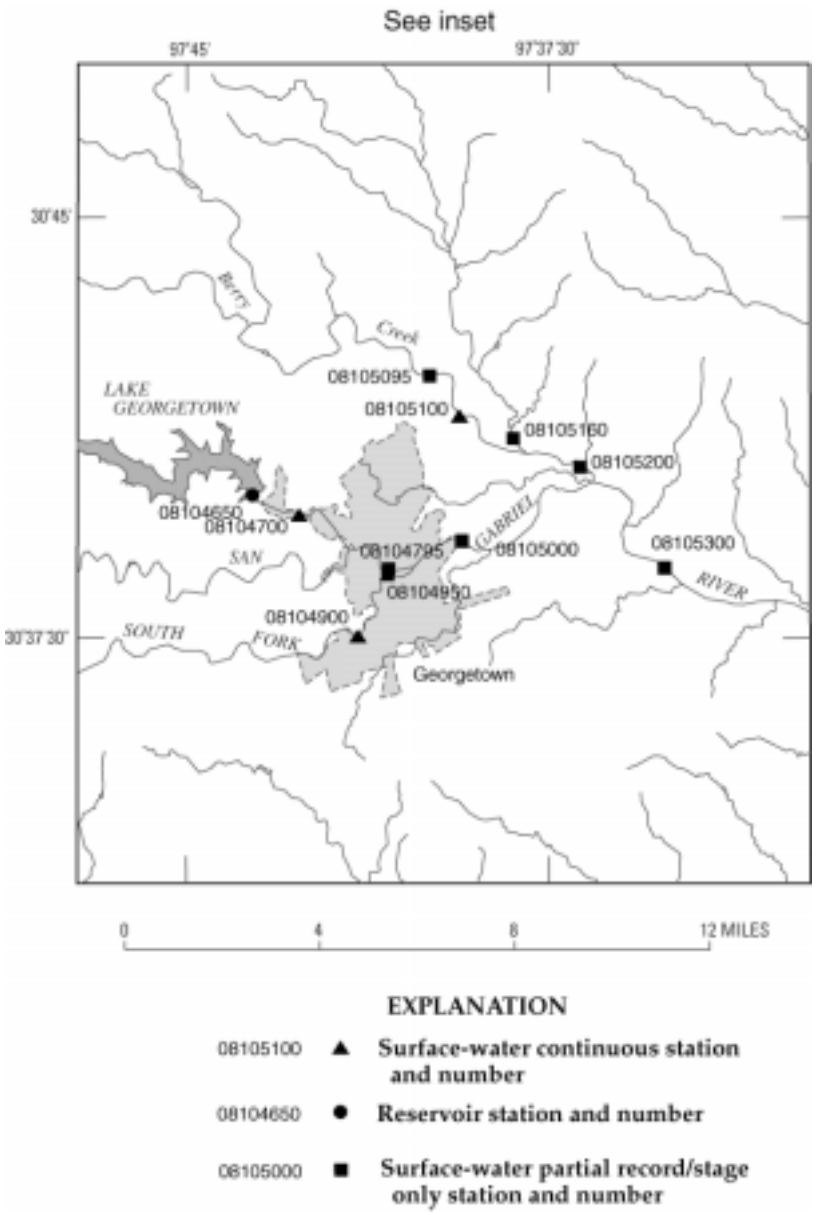


Figure 8.--Map showing location of gaging stations in the Georgetown inset of the Brazos River Basin

08091000 Brazos River near Glen Rose, TX 310
08091500 Paluxy River at Glen Rose, TX 314
08091730 Squaw Creek Reservoir near Glen Rose, TX 316
08091750 Squaw Creek near Glen Rose, TX 318
08091900 Lake Pat Cleburne near Cleburne, TX 320
08092000 Nolan River at Blum, TX 322
08092500 Lake Whitney near Whitney, TX 324
08092600 Brazos River at Whitney Dam near Whitney, TX 342
08093100 Brazos River near Aquilla, TX 344
08093350 Aquilla Lake above Aquilla, TX 346
08093500 Aquilla Creek near Aquilla, TX 348
08094800 North Bosque River at Hico, TX 350
08095000 North Bosque River near Clifton, TX 352
08095200 North Bosque River at Valley Mills, TX 354
08095300 Middle Bosque River near McGregor, TX 358
08095400 Hog Creek near Crawford, TX 360
08095550 Waco Lake near Waco, TX 362
08095600 Bosque River near Waco, TX 382
08096500 Brazos River at Waco, TX 384
08098290 Brazos River near Highbank, TX 386
08099000 Leon Reservoir near Ranger, TX 388
08099100 Leon River near De Leon, TX 390
08099300 Sabana River near DeLeon, TX 392
08099400 Proctor Lake near Proctor, TX 394
08100000 Leon River near Hamilton, TX 396
08100500 Leon River at Gatesville, TX 398
08100600 Leon River at North Fort Hood, TX 488
08101000 Cowhouse Creek at Pidcoke, TX 400
08102000 Belton Lake near Belton, TX 402
08102500 Leon River near Belton, TX 404
08103800 Lampasas River near Kempner, TX 406
08103900 South Fork Rocky Creek near Briggs, TX 408
08104050 Stillhouse Hollow Lake near Belton, TX 410
08104100 Lampasas River near Belton, TX 412
08104500 Little River near Little River, TX 414
08104650 Lake Georgetown near Georgetown, TX 416
08104700 North Fork San Gabriel River near Georgetown, TX 418
08104795 North Fork San Gabriel River upstream from State Highway
at Georgetown, TX 485
08104900 South Fork San Gabriel River at Georgetown, TX 420
08104950 South Fork San Gabriel River upstream from State Highway
at Georgetown, TX 485
08105000 San Gabriel River at Georgetown, TX 485
08105095 Berry Creek upstream from IH-35 near Georgetown, TX 485
08105100 Berry Creek near Georgetown, TX 422
08105160 Dry Berry Creek near Georgetown, TX 485
08105200 Berry Creek at State Highway 971 near Georgetown, TX 485
08105300 San Gabriel River near Weir, TX 485
08105600 Granger Lake near Granger, TX 424
08105700 San Gabriel River near Laneport, TX 426
08106350 Little River near Rockdale, TX 428
08106500 Little River at Cameron, TX 430

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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 mi^2, of which 9,566 mi^2 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 Sep 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 Sep 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 by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft) 176 mi upstream. Since 1969, there has been additional regulation by Lake Granbury (station 08090900, conservation pool storage 136,823 acre-ft) 31.3 mi upstream. There are many diversions above station for irrigation and municipal supplies, and for oil field operations. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--17 years (water years 1924-40) prior to regulation by Possum Kingdom Lake, 1,581 ft^3/s (1,145,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-40)--Maximum discharge, 97,600 ft^3/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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	76	23	36	33	18	28	20	4.2	52	10	16
2	43	53	23	37	33	20	30	23	3.5	251	8.9	17
3	42	32	25	37	32	21	33	26	91	264	8.5	20
4	22	17	28	29	29	20	31	27	11600	259	7.8	20
5	22	15	22	27	29	19	26	25	8100	195	8.3	17
6	20	15	24	31	29	20	23	25	1800	72	8.3	16
7	19	17	27	35	31	21	21	22	1780	34	7.3	15
8	19	18	28	50	32	21	15	15	511	23	6.7	13
9	20	17	34	53	32	22	12	12	350	18	7.4	13
10	22	17	33	43	32	31	14	9.8	564	14	6.8	12
11	24	17	36	34	30	36	20	9.8	765	11	6.8	13
12	25	17	60	32	29	38	55	8.4	1880	9.5	8.7	12
13	24	18	59	29	27	33	59	5.0	1310	8.9	7.9	13
14	22	18	50	27	23	29	52	4.7	390	9.2	8.3	14
15	20	19	36	27	23	32	35	4.3	1280	10	9.2	16
16	22	19	31	26	25	29	24	3.0	1530	17	9.1	18
17	24	19	31	29	24	24	19	1.6	1420	15	8.4	18
18	27	17	30	31	25	24	18	2.0	439	12	10	18
19	39	15	31	30	22	23	17	18	177	11	15	19
20	40	13	33	27	22	21	13	77	149	14	17	20
21	39	14	30	24	23	22	10	81	117	12	17	19
22	35	17	29	25	28	22	10	45	684	10	18	23
23	33	19	29	25	45	26	13	26	380	8.2	18	24
24	33	19	31	25	50	26	10	13	111	6.8	18	25
25	32	19	32	26	42	43	11	6.7	65	6.7	19	24
26	30	19	33	26	31	85	13	4.4	129	3.8	22	22
27	28	22	33	32	23	176	12	5.1	81	3.8	20	19
28	29	23	32	35	20	73	10	8.5	75	4.7	19	19
29	28	24	34	39	20	44	7.1	13	57	6.6	17	20
30	51	24	35	35	---	31	7.2	17	52	9.3	17	19
31	69	---	34	33	---	27	---	8.0	---	10	16	---
TOTAL	943	649	1016	995	844	1077	648.3	566.3	35894.7	1381.5	381.4	534
MEAN	30.4	21.6	32.8	32.1	29.1	34.7	21.6	18.3	1196	44.6	12.3	17.8
MAX	69	76	60	53	50	176	59	81	11600	264	22	25
MIN	19	13	22	24	20	18	7.1	1.6	3.5	3.8	6.7	12
AC-FT	1870	1290	2020	1970	1670	2140	1290	1120	71200	2740	757	1060

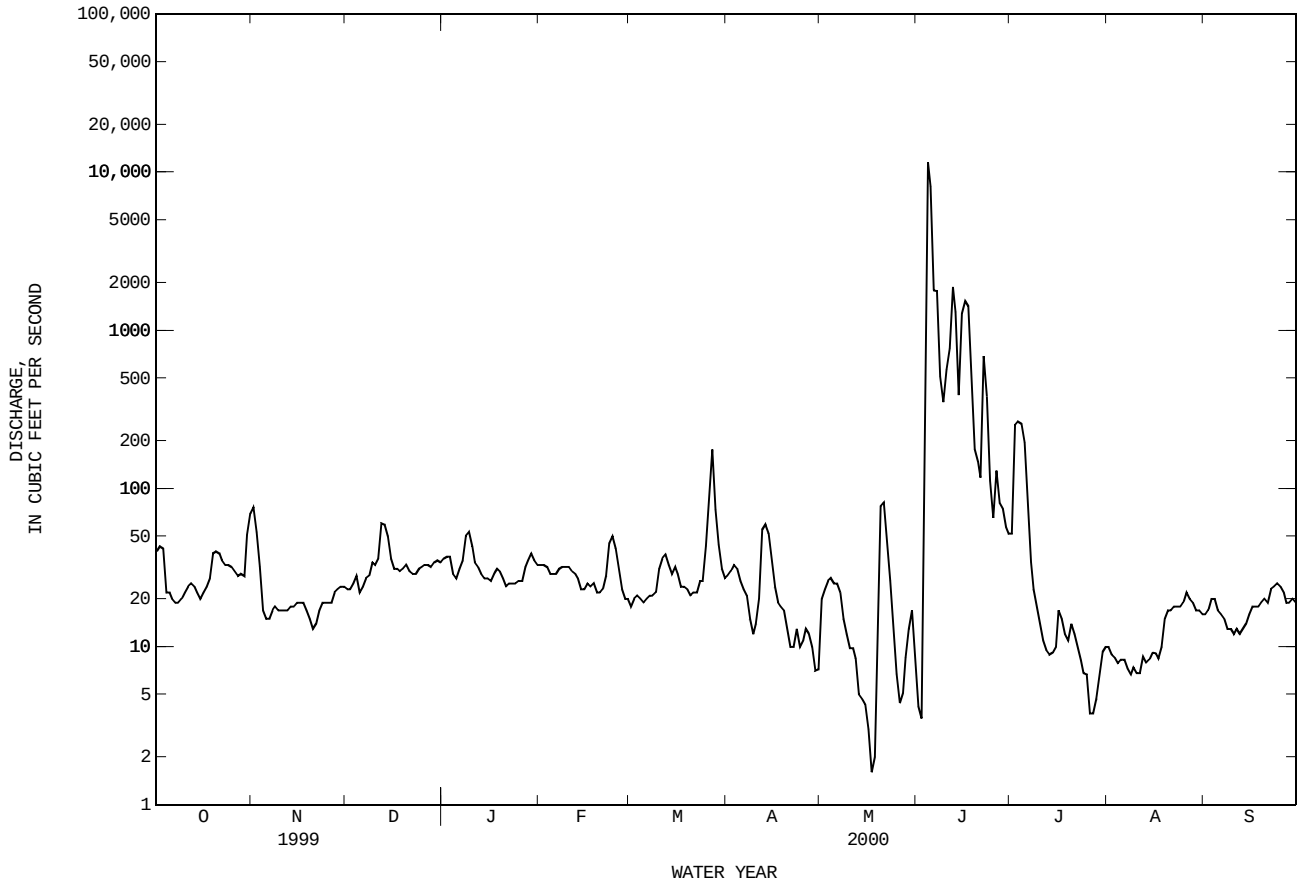
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000z, BY WATER YEAR (WY)

MEAN	1773	816	762	574	962	1011	1316	3235	2290	1015	796	1085
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000z	
ANNUAL TOTAL	64480		44930.2			
ANNUAL MEAN	177		123		1305	
HIGHEST ANNUAL MEAN					5494	1957
LOWEST ANNUAL MEAN					115	1988
HIGHEST DAILY MEAN	5770	Mar 21	11600	Jun 4	85100	May 1 1957
LOWEST DAILY MEAN	13	Nov 20	1.6	May 17	.10	Oct 30 1952
ANNUAL SEVEN-DAY MINIMUM	15	Aug 29	4.1	May 12	.36	Oct 27 1952
INSTANTANEOUS PEAK FLOW			21600	Jun 4	89600	Dec 21 1991
INSTANTANEOUS PEAK STAGE			17.46	Jun 4	35.76	Apr 28 1990
ANNUAL RUNOFF (AC-FT)	127900		89120		945200	
10 PERCENT EXCEEDS	524		70		2430	
50 PERCENT EXCEEDS	37		23		342	
90 PERCENT EXCEEDS	19		8.8		35	

z Period of regulated streamflow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Aug 1946 to Nov 1946, Oct 1980 to Jun 1987, Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1980 to Jun 1987, Oct 1998 to current year.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN											
24...	1437	31	2620	8.1	13.0	1.3	12.2	119	.2	400	300
APR											
26...	1100	17	2500	8.2	24.0	.40	7.7	94	.8	350	270
JUL											
19...	0730	18	2690	8.3	29.8	3.8	6.3	85	.7	390	300
25...	0720	12	2870	8.3	27.8	3.0	6.4	84	.4	400	310

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
JAN										
24...	97	38	377	8	8.1	100	250	630	.35	.54
APR										
26...	80	37	365	8	8.7	79	240	600	.38	.45
JUL										
19...	94	38	384	8	7.8	95	250	650	.38	6.0
25...	92	41	418	9	9.1	87	280	710	.35	6.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
24...	1500	1460	8	<.010	<.050	<.020	.31	<.050	<.010	--
APR										
26...	1420	1380	1	<.010	<.050	<.020	.44	.051	.033	.10
JUL										
19...	1600	1500	<10	<.010	<.050	<.020	.38	<.050	<.010	--
25...	1660	1610	<10	<.010	<.050	<.020	.41	<.050	<.010	--

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JAN										
24...	5.6	2.1	<1.0	<2	149	<1.0	<1.0	<.80	<1.0	1.7
APR										
26...	5.3	7.3	<1.0	E1	167	<1.0	<1.0	<.80	<1.0	2.7
JUL										
19...	6.4	--	--	--	--	--	--	--	--	--
25...	6.8	13	<1.0	2	187	<1.0	<1.0	1.5	<1.0	2.3

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JAN										
24...	<10	<1.0	8.7	<.2	2.3	3.4	<2	<1.0	2.2	2.1
APR										
26...	<30	<1.0	26	<.2	2.4	<1.0	--	<1.0	5.8	1.6
JUL										
19...	<30	--	<2.2	--	--	--	--	--	--	--
25...	<30	<1.0	2.2	<.2	3.2	<1.0	<2	<1.0	3.5	1.2

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08091500 PALUXY RIVER AT GLEN ROSE, TX

LOCATION.--Lat 32°13'53", long 97°46'37", Somervell County, Hydrologic Unit 12060202, on left bank at downstream side of remaining pier of dismantled highway bridge, 500 ft upstream from bridge on U.S. Highway 67, 1.0 mi upstream from Cross Branch, 1.2 mi southwest of Glen Rose, and 5.1 mi upstream from mouth.

DRAINAGE AREA.--410 mi^2.

PERIOD OF RECORD.--Oct 1923 to Sep 1925 (water year 1924 is not complete), May 1947 to current year. Prior to Oct 1965, published as "Paluxy Creek at Glen Rose."

REVISED RECORDS.--WSP 1392: 1949, 1952. WSP 2122: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 609.66 ft above sea level. Oct 27, 1923 to Sep 30, 1925, nonrecording gage at bridge 1.8 mi downstream at datum 13.62 ft lower. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since 1981, at least 10% of contributing drainage area has been regulated by 14 floodwater-retarding structures with a combined capacity of 20,100 acre-ft. These structures control runoff from 90.8 mi^2. No known diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--35 years (water years 1925, 1948-81), 65.2 ft^3/s (47,220 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925, 1948-81).--Maximum discharge, 50,000 ft^3/s Oct 4, 1959 (gage height, 25.40 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1877, 27.2 ft Apr 17, 1908, present site and datum (discharge, 59,000 ft^3/s). Flood of May 21, 1922, reached a stage of 26.0 ft, present site and datum (discharge, 53,000 ft^3/s). Flood in Nov 1918 reached about the same stage as flood of May 21, 1922, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	4.1	8.4	12	12	13	9.9	.03	41	.00	.00
2	.00	.34	4.3	8.4	12	12	14	7.4	.00	28	.00	.00
3	.00	1.9	4.4	8.2	12	11	16	11	52	21	.00	.00
4	.00	1.5	5.0	7.0	11	11	15	14	1050	17	.00	.00
5	.00	1.1	4.7	7.1	11	11	14	7.2	162	14	.00	.00
6	.00	1.1	4.2	7.3	11	11	13	7.3	62	12	.00	.00
7	.00	1.2	4.6	10	11	12	11	7.6	39	10	.00	.00
8	.00	1.3	5.2	15	11	13	10	6.3	28	8.9	.00	.00
9	.00	1.2	7.6	14	11	19	9.5	4.6	21	7.7	.00	.00
10	.00	1.1	5.8	12	11	20	9.2	3.9	24	6.4	.00	.00
11	.00	1.2	6.5	11	12	20	12	3.1	95	5.0	.00	.00
12	.00	1.4	30	11	12	19	21	2.3	597	4.0	.00	.00
13	.00	1.4	40	10	12	18	15	1.5	109	3.2	.00	.00
14	.00	1.4	23	9.5	12	15	14	.75	48	2.6	.00	.00
15	.00	1.5	16	9.2	12	15	12	.53	986	2.0	.00	.00
16	.00	1.6	12	9.2	12	14	12	.39	222	1.8	.00	.00
17	.00	1.6	10	9.3	12	13	11	.25	118	1.3	.00	.00
18	.00	2.0	9.5	9.5	12	12	10	.17	82	1.0	.00	.00
19	.00	1.9	8.9	9.2	12	12	9.8	2.8	71	.79	.00	.00
20	.00	1.7	8.4	9.2	12	11	8.9	18	55	.57	.00	.00
21	.00	1.7	7.8	9.2	12	11	8.4	12	43	.45	.00	.00
22	.00	2.6	8.0	9.2	13	13	7.6	10	35	.34	.00	.00
23	.00	3.1	8.1	9.2	20	14	7.0	7.5	30	.20	.00	.00
24	.00	2.7	7.7	9.4	18	14	6.7	4.1	26	.12	.00	.00
25	.00	2.8	7.7	10	18	14	6.1	2.1	23	.07	.00	.00
26	.00	3.0	7.7	10	16	38	5.8	1.1	20	.04	.00	.00
27	.00	4.2	7.7	11	13	51	5.6	.73	19	.03	.00	.00
28	.00	3.8	8.1	11	12	27	5.0	.66	54	.02	.00	.00
29	.00	3.8	8.4	11	12	19	4.5	.37	29	.01	.00	.00
30	.00	4.0	8.4	11	---	15	4.3	.20	49	.01	.00	.00
31	.00	---	8.4	12	---	14	---	.10	---	.00	.00	---
TOTAL	0.00	58.14	302.2	307.5	367	511	311.4	147.85	4149.03	189.55	0.00	0.00
MEAN	.000	1.94	9.75	9.92	12.7	16.5	10.4	4.77	138	6.11	.000	.000
MAX	.00	4.2	40	15	20	51	21	18	1050	41	.00	.00
MIN	.00	.00	4.1	7.0	11	11	4.3	.10	.00	.00	.00	.00
AC-FT	.00	115	599	610	728	1010	618	293	8230	376	.00	.00

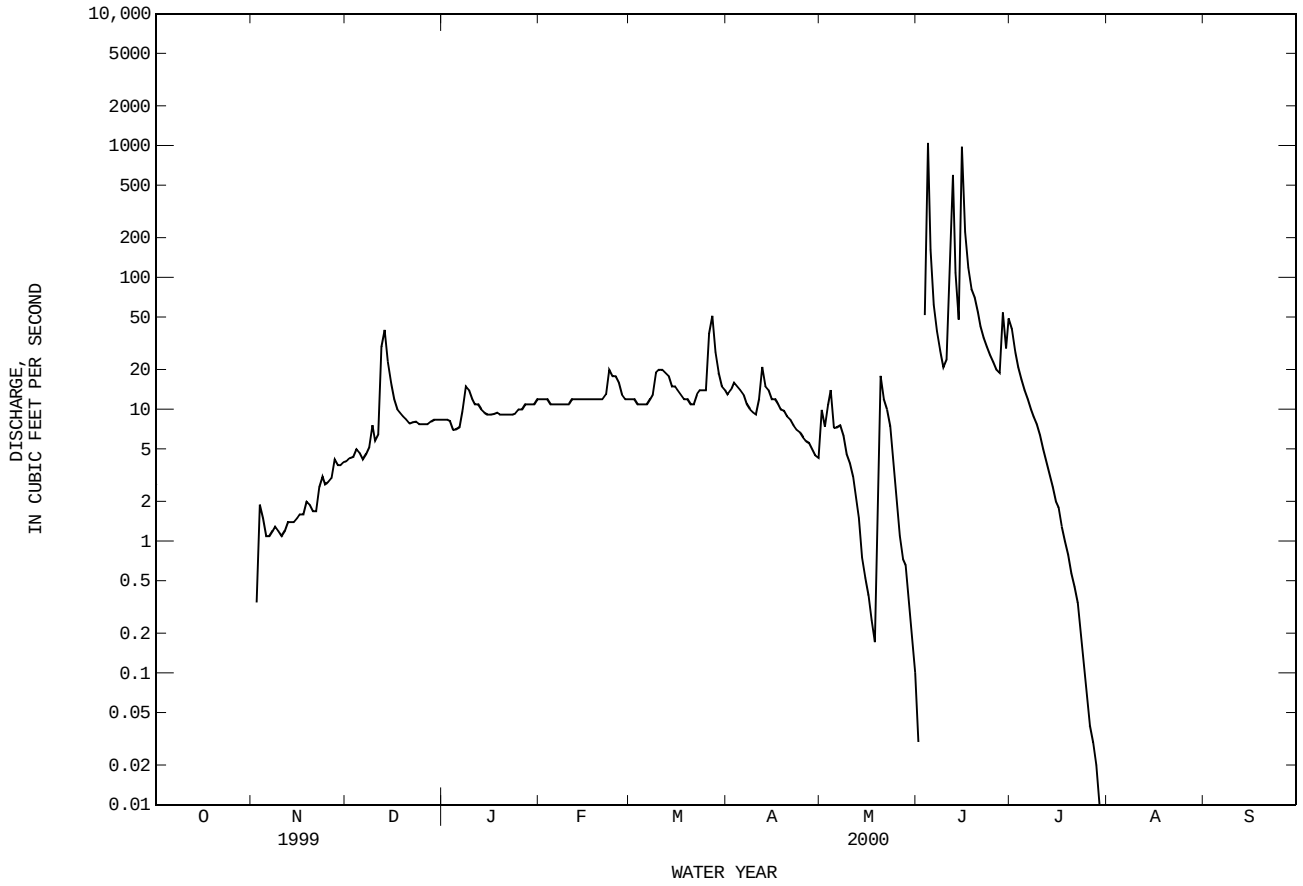
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000z, BY WATER YEAR (WY)

MEAN	54.2	41.9	101	48.8	136	146	122	222	192	37.9	55.6	39.6
MAX	424	211	1382	380	933	654	828	975	890	245	721	323
(WY)	1992	1992	1992	1992	1992	1998	1990	1990	1989	1995	1995	1986
MIN	.000	1.05	3.47	4.70	5.49	7.54	6.47	3.34	7.50	1.18	.000	.000
(WY)	2000	1984	1989	1984	1984	1986	1986	1988	1984	1984	1984	1984

08091500 PALUXY RIVER AT GLEN ROSE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000z	
ANNUAL TOTAL	5217.33		6343.67			
ANNUAL MEAN	14.3		17.3		99.6	
HIGHEST ANNUAL MEAN					361	1992
LOWEST ANNUAL MEAN					6.24	1984
HIGHEST DAILY MEAN	1050	Jun 2	1050	Jun 4	17200	Dec 20 1991
LOWEST DAILY MEAN	.00	Aug 6	.00	Oct 1	.00	Aug 28 1983
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 6	.00	Oct 1	.00	Aug 28 1983
INSTANTANEOUS PEAK FLOW			4790	Jun 15	32300	Dec 20 1991
INSTANTANEOUS PEAK STAGE			8.61	Jun 15	21.28	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	10350		12580		72130	
10 PERCENT EXCEEDS	24		20		163	
50 PERCENT EXCEEDS	10		6.8		20	
90 PERCENT EXCEEDS	.00		.00		1.7	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Feb 1977 to current year.
Water-quality records.--Chemical data: Oct 1982 to Sep 1984.

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

REMARKS.--No estimated daily contents. Records good. The reservoir is formed by a rolled earthfill dam 4,360 ft long. Deliberate impoundment began in Feb 1977, and the dam was completed in Jun 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. 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, Sep 16, 1992, elevation, 771.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 157,800 acre-ft, Jun 4, elevation, 777.07 ft; minimum contents, 148,100 acre-ft, Mar 21, 22, 23, elevation, 774.13 ft.

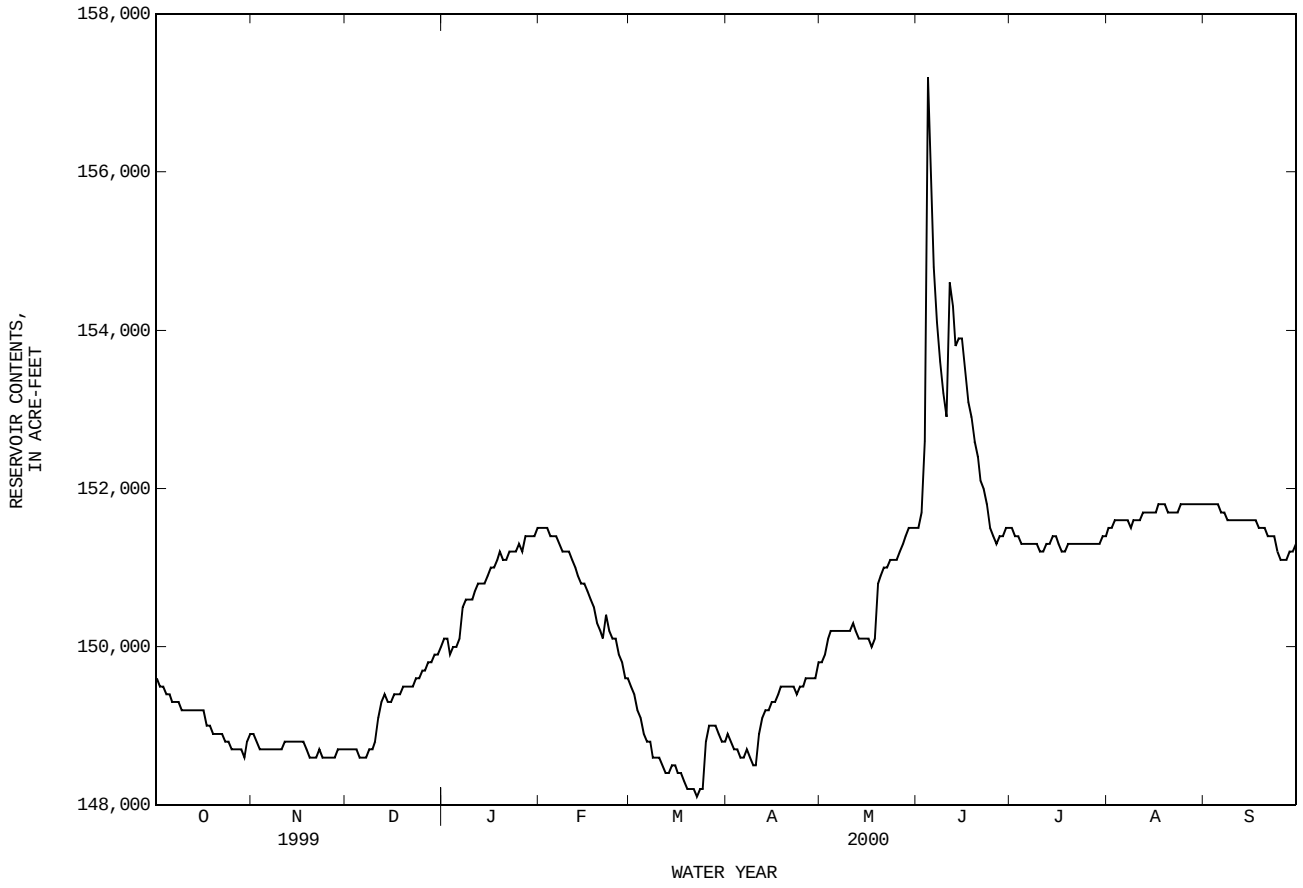
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149600	148900	148700	150100	151500	149500	148900	149800	151500	151500	151500	151800
2	149500	148800	148700	150100	151500	149400	148800	149900	151700	151400	151500	151800
3	149500	148700	148700	149900	151500	149200	148700	150100	152600	151400	151600	151800
4	149400	148700	148700	150000	151400	149100	148700	150200	157200	151300	151600	151800
5	149400	148700	148600	150000	151400	148900	148600	150200	155800	151300	151600	151800
6	149300	148700	148600	150100	151400	148800	148600	150200	154800	151300	151600	151700
7	149300	148700	148600	150500	151300	148800	148700	150200	154100	151300	151600	151700
8	149300	148700	148700	150600	151200	148600	148600	150200	153600	151300	151500	151600
9	149200	148700	148700	150600	151200	148600	148500	150200	153200	151300	151600	151600
10	149200	148700	148800	150600	151200	148600	148500	150200	152900	151200	151600	151600
11	149200	148800	149100	150700	151100	148500	148900	150300	154600	151200	151600	151600
12	149200	148800	149300	150800	151000	148400	149100	150200	154300	151300	151700	151600
13	149200	148800	149400	150800	150900	148400	149200	150100	153800	151300	151700	151600
14	149200	148800	149300	150800	150800	148500	149200	150100	153900	151400	151700	151600
15	149200	148800	149300	150900	150800	148500	149300	150100	153900	151400	151700	151600
16	149200	148800	149400	151000	150700	148400	149300	150100	153500	151300	151700	151600
17	149000	148800	149400	151000	150600	148400	149400	150000	153100	151200	151800	151600
18	149000	148700	149400	151100	150500	148300	149500	150100	152900	151200	151800	151500
19	148900	148600	149500	151200	150300	148200	149500	150800	152600	151300	151800	151500
20	148900	148600	149500	151100	150200	148200	149500	150900	152400	151300	151700	151500
21	148900	148600	149500	151100	150100	148200	149500	151000	152100	151300	151700	151400
22	148900	148700	149500	151200	150400	148100	149500	151000	152000	151300	151700	151400
23	148800	148600	149600	151200	150200	148200	149400	151100	151800	151300	151700	151400
24	148800	148600	149600	151200	150100	148200	149500	151100	151500	151300	151800	151200
25	148700	148600	149700	151300	150100	148800	149500	151100	151400	151300	151800	151100
26	148700	148600	149700	151200	149900	149000	149600	151200	151300	151300	151800	151100
27	148700	148600	149800	151400	149800	149000	149600	151300	151400	151300	151800	151100
28	148700	148700	149800	151400	149600	149000	149600	151400	151400	151300	151800	151200
29	148600	148700	149900	151400	149600	148900	149600	151500	151500	151300	151800	151200
30	148800	148700	149900	151400	---	148800	149800	151500	151500	151400	151800	151300
31	148900	---	150000	151500	---	148800	---	151500	---	151400	151800	---
MAX	149600	148900	150000	151500	151500	149500	149800	151500	157200	151500	151800	151800
MIN	148600	148600	148600	149900	149600	148100	148500	149800	151300	151200	151500	151100
(+)	774.38	774.30	774.71	775.16	774.57	774.34	774.64	775.18	775.17	775.14	775.25	775.10
(@)	-800	-200	+1300	+1500	-1900	-800	+1000	+1700	0	-100	+400	-500

CAL YR 1999 MAX 152200 MIN 144800 (@) +4100
WTR YR 2000 MAX 157200 MIN 148100 (@) +1600

(+) 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

LOCATION.--Lat 32°16'12", long 97°43'56", Somervell County, Hydrologic Unit 12060202, on left bank at downstream side of highway embankment 25 ft left of left end of bridge on State Highway 144, 2.1 mi upstream from mouth, 2.5 mi downstream from Squaw Creek Dam, and 2.8 mi northeast of Glen Rose.

DRAINAGE AREA.--70.3 mi^2.

PERIOD OF RECORD.--Oct 1973 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 599.00 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Feb 15, 1977, at least 10% of contributing drainage area has been regulated by Squaw Creek Reservoir (station 08091730, conservation pool storage 151,030 acre-ft). No known diversions. During the year, low flows were sustained by releases from a pipeline used to divert water from Lake Granbury (station 08090900, conservation pool storage 136,823 acre-ft) to Squaw Creek Reservoir. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--4 years (1974-77) prior to regulation by Squaw Creek Reservoir 8.41 ft^3/s (6,090 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1974-77).--Maximum discharge 9,030 ft^3/s Apr 8, 1975 (gage height, 11.90 ft), from rating curve extended above 1,000 ft^3/s on basis of area-velocity study; minimum, 0.02 ft^3/s Aug 28 and 29, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1934, about 20.5 ft in May 1957, from information by Texas Department of Transportation (discharge not determined).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.7	3.3	4.4	8.2	4.0	4.9	5.0	6.8	5.4	3.4	11
2	3.5	3.4	2.9	4.5	8.9	3.5	4.9	4.2	7.7	5.2	3.5	11
3	3.4	3.5	3.2	11	9.4	3.7	4.7	4.4	60	4.7	4.4	12
4	3.5	3.6	3.7	9.7	13	3.4	4.9	4.4	1050	4.6	5.0	12
5	3.5	3.5	5.0	3.3	6.2	3.5	5.1	4.3	590	4.4	5.0	11
6	3.2	3.7	3.4	3.5	5.0	3.6	5.3	4.3	368	4.5	4.9	7.8
7	3.3	3.6	3.7	4.3	4.8	3.6	5.2	4.2	227	4.3	4.8	5.8
8	3.2	3.3	4.0	4.3	3.5	3.6	5.0	4.2	144	4.3	4.8	5.1
9	3.1	3.5	6.9	4.9	3.4	3.6	5.1	4.1	108	4.2	4.9	4.9
10	3.1	3.8	5.0	3.8	3.3	4.1	5.1	4.1	90	4.2	4.9	4.7
11	3.1	3.8	5.9	3.6	5.4	3.5	5.9	4.0	95	4.1	5.0	4.6
12	3.1	3.7	5.2	3.6	3.7	3.5	7.2	4.0	237	4.0	5.7	4.5
13	3.1	3.5	4.1	3.8	7.6	3.5	4.7	3.9	165	4.0	6.3	4.6
14	3.0	3.4	5.2	3.7	3.1	3.6	4.7	3.8	126	4.6	6.3	4.8
15	2.9	3.4	4.6	3.6	3.0	3.5	4.7	3.9	209	4.2	6.4	5.5
16	3.0	3.3	4.2	3.4	2.9	3.7	4.7	3.9	127	3.7	6.7	5.1
17	3.2	3.2	4.3	3.5	2.9	3.5	4.6	4.0	102	3.6	7.5	4.6
18	3.6	2.9	4.2	3.6	3.9	3.5	4.6	4.1	87	3.5	8.2	4.4
19	3.5	7.2	4.3	4.2	2.9	3.6	4.6	12	76	3.4	7.9	4.3
20	3.4	3.0	4.3	5.1	2.9	3.5	4.5	5.5	63	3.4	6.9	4.3
21	3.0	2.7	4.3	3.5	2.9	3.5	4.5	3.6	48	3.4	6.5	4.7
22	2.9	2.8	4.1	4.6	3.6	3.5	4.6	3.5	35	3.5	6.3	4.3
23	2.9	2.9	4.4	4.6	3.9	3.6	5.6	3.4	22	3.6	6.4	3.8
24	2.9	2.9	4.4	5.1	3.3	3.4	4.5	3.7	11	3.5	6.9	5.1
25	2.9	3.1	4.4	4.8	3.4	22	4.3	4.1	6.3	3.4	7.9	7.2
26	2.9	3.0	4.4	4.0	4.7	20	4.4	4.3	5.4	3.4	8.4	3.3
27	2.9	3.0	4.7	5.2	3.3	4.2	4.3	4.5	5.6	3.4	8.5	3.2
28	3.3	3.0	4.9	8.9	3.5	4.2	4.2	4.7	5.7	3.4	8.5	3.2
29	3.1	3.0	4.5	7.8	3.9	4.3	4.5	4.8	6.0	3.6	8.4	3.2
30	5.0	3.2	4.6	5.9	---	4.6	4.4	5.9	5.7	3.5	7.9	3.2
31	4.5	---	4.6	6.4	---	4.8	---	6.7	---	3.6	9.4	---
TOTAL	101.3	102.6	136.7	152.6	136.5	150.1	145.7	141.5	4089.2	122.6	197.6	173.2
MEAN	3.27	3.42	4.41	4.92	4.71	4.84	4.86	4.56	136	3.95	6.37	5.77
MAX	5.0	7.2	6.9	11	13	22	7.2	12	1050	5.4	9.4	12
MIN	2.9	2.7	2.9	3.3	2.9	3.4	4.2	3.4	5.4	3.4	3.4	3.2
AC-FT	201	204	271	303	271	298	289	281	8110	243	392	344

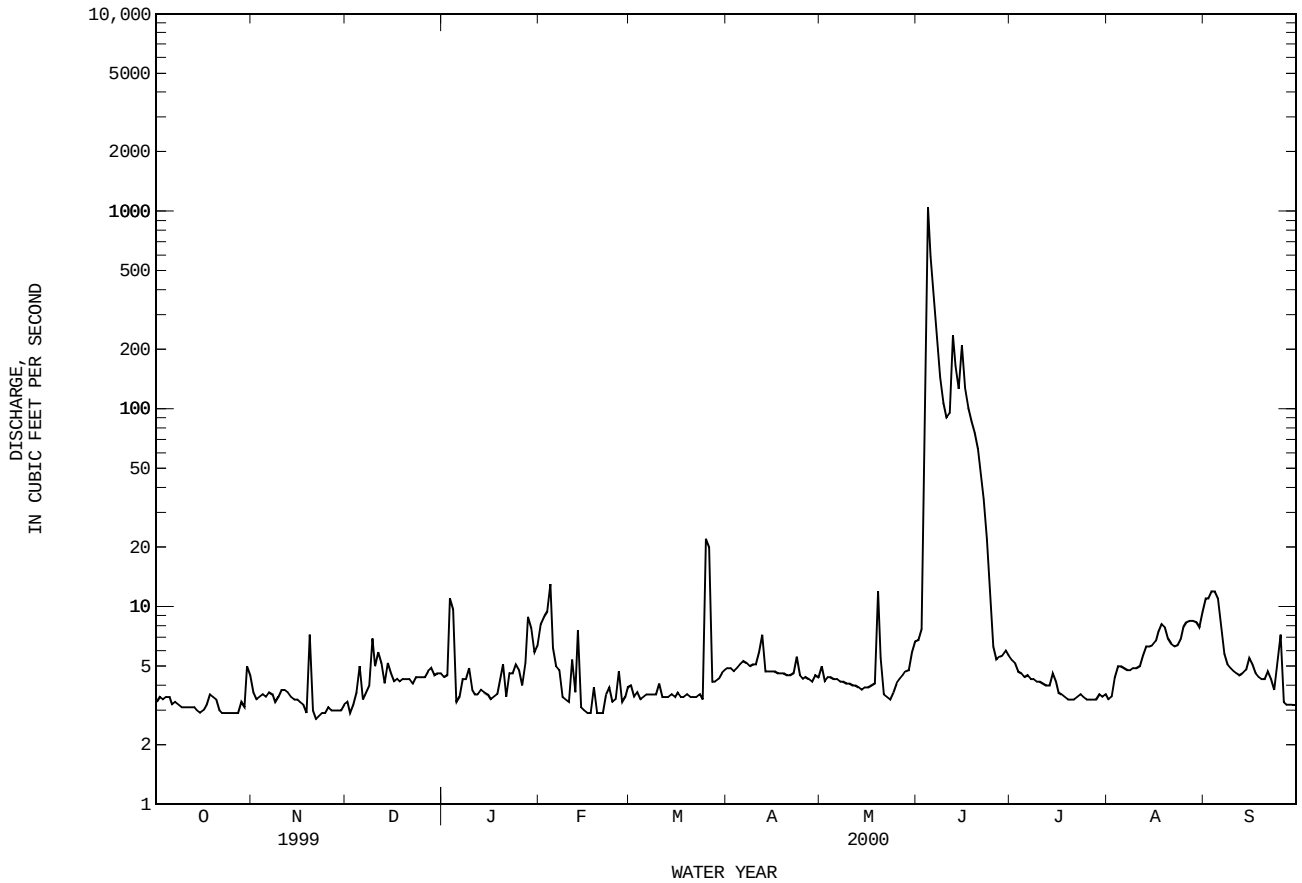
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000z, BY WATER YEAR (WY)

MEAN	9.14	7.73	22.4	7.31	17.8	27.6	20.3	49.0	44.8	6.89	11.1	6.22
MAX	110	81.5	416	66.0	162	132	169	336	362	36.0	143	31.1
(WY)	1992	1992	1992	1992	1992	1992	1990	1989	1989	1995	1995	1996
MIN	1.54	1.95	2.36	1.62	2.42	1.61	1.78	2.39	1.28	1.59	1.47	1.91
(WY)	1993	1993	1978	1998	1999	1978	1978	1978	1978	1978	1992	1994

08091750 SQUAW CREEK NEAR GLEN ROSE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000z	
ANNUAL TOTAL	2483.3		5649.6			
ANNUAL MEAN	6.80		15.4		19.2	
HIGHEST ANNUAL MEAN					89.9	1992
LOWEST ANNUAL MEAN					2.18	1978
HIGHEST DAILY MEAN	37	Jun 25	1050	Jun 4	4380	Dec 20 1991
LOWEST DAILY MEAN	1.2	Jul 25	2.7	Nov 21	.54	Aug 5 1996
ANNUAL SEVEN-DAY MINIMUM	1.7	Jun 5	2.9	Nov 20	.70	Oct 22 1992
INSTANTANEOUS PEAK FLOW			4280	Jun 4	8940	Jun 13 1989
INSTANTANEOUS PEAK STAGE			9.09	Jun 4	11.85	Jun 13 1989
ANNUAL RUNOFF (AC-FT)	4930		11210		13910	
10 PERCENT EXCEEDS	19		8.9		20	
50 PERCENT EXCEEDS	3.5		4.3		4.0	
90 PERCENT EXCEEDS	2.5		3.2		2.3	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Apr 1965 to Sep 1985, Jun 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (Homer Hunter Associates, Consulting Engineers benchmark). Satellite telemeter at station.

REMARKS.--No estimated daily contents. Records good. 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 spillway	744.0
Crest of spillway (top of conservation pool)	733.6
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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 32,420 acre-ft, Jun 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, 32,420 acre-ft, Jun 15, elevation, 737.58 ft; minimum contents, 14,900 acre-ft, Jun 2, elevation, 725.23 ft.

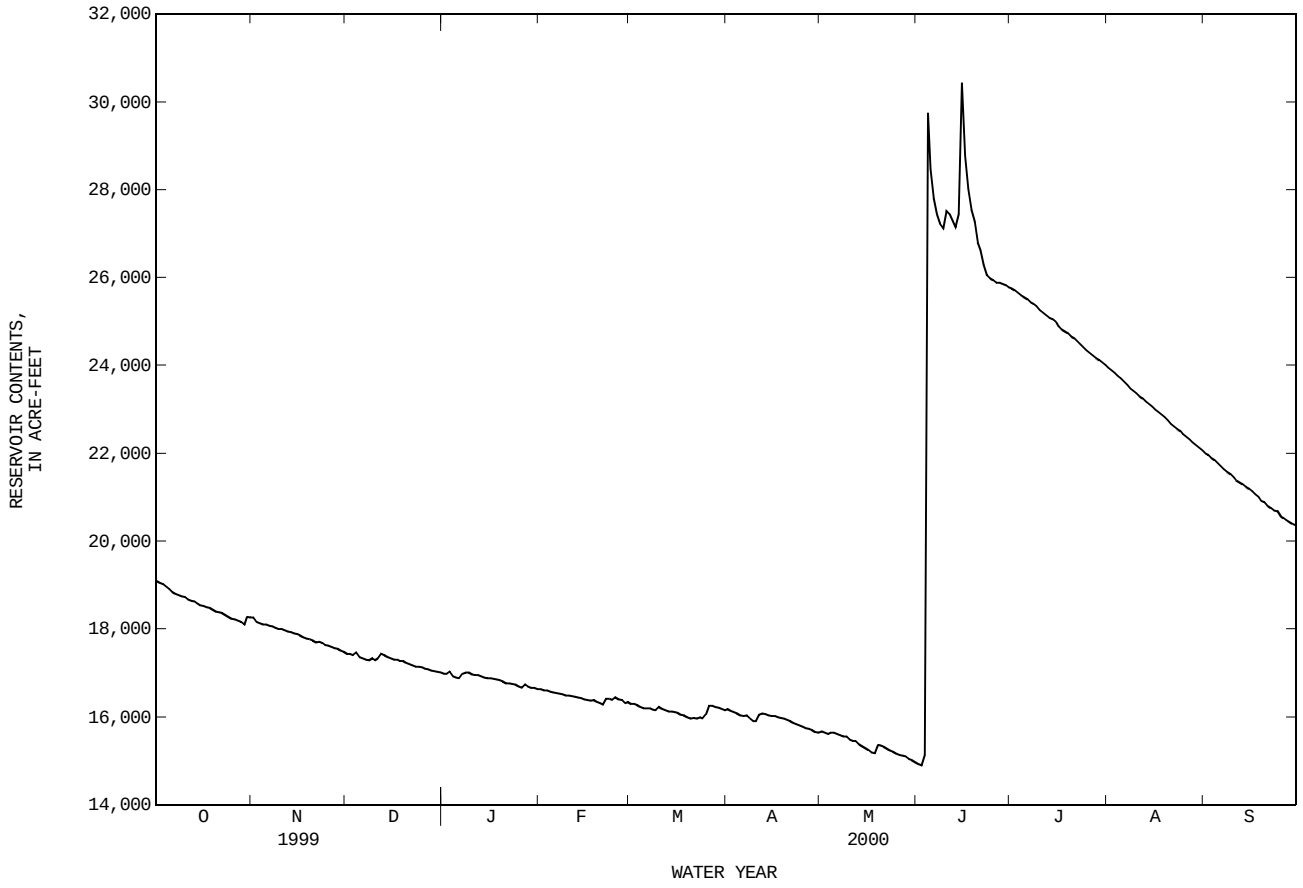
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19100	18260	17440	16980	16630	16300	16180	15670	14930	25750	23950	22000
2	19050	18170	17430	16980	16610	16300	16140	15640	14900	25710	23890	21960
3	19020	18130	17410	17030	16610	16270	16110	15620	15130	25650	23830	21900
4	18960	18110	17470	16920	16570	16230	16080	15650	29750	25600	23760	21850
5	18910	18100	17370	16890	16560	16200	16040	15650	28470	25550	23700	21780
6	18850	18070	17340	16880	16540	16200	16020	15610	27810	25510	23630	21700
7	18800	18060	17310	16980	16530	16200	16040	15590	27440	25440	23550	21630
8	18770	18030	17290	17010	16520	16170	15960	15560	27230	25400	23470	21580
9	18750	18010	17330	17010	16490	16160	15910	15550	27120	25340	23420	21530
10	18730	18000	17290	16970	16490	16230	15900	15490	27520	25260	23360	21450
11	18680	17980	17340	16960	16480	16190	16050	15460	27440	25200	23300	21390
12	18650	17950	17430	16960	16460	16160	16080	15450	27290	25150	23250	21340
13	18630	17930	17400	16920	16440	16130	16070	15380	27150	25090	23180	21300
14	18590	17900	17370	16900	16430	16120	16040	15340	27450	25060	23120	21240
15	18550	17890	17340	16880	16400	16110	16020	15300	30430	25000	23060	21190
16	18530	17860	17310	16880	16390	16100	16020	15250	28770	24900	22990	21140
17	18500	17820	17300	16870	16370	16050	16000	15190	28020	24820	22950	21070
18	18480	17790	17280	16850	16380	16030	15980	15180	27550	24780	22890	21000
19	18440	17770	17280	16840	16340	16000	15960	15370	27290	24730	22820	20920
20	18400	17740	17230	16810	16320	15960	15930	15350	26790	24660	22750	20890
21	18380	17700	17210	16760	16290	15980	15910	15320	26630	24620	22670	20800
22	18370	17720	17180	16760	16410	15960	15860	15280	26300	24540	22610	20760
23	18330	17690	17150	16750	16410	15990	15840	15230	26060	24480	22550	20700
24	18280	17640	17140	16730	16380	15960	15810	15200	25990	24410	22500	20680
25	18240	17620	17130	16700	16440	16050	15780	15170	25940	24340	22440	20570
26	18220	17590	17100	16660	16400	16260	15750	15140	25890	24290	22370	20520
27	18190	17560	17080	16730	16380	16250	15730	15120	25880	24220	22310	20480
28	18170	17550	17050	16700	16320	16220	15700	15100	25860	24160	22240	20440
29	18110	17510	17040	16670	16340	16210	15660	15050	25830	24120	22190	20400
30	18280	17480	17030	16660	---	16180	15650	15020	25780	24060	22130	20360
31	18260	---	17010	16640	---	16160	---	14980	---	24000	22070	---
MAX	19100	18260	17470	17030	16630	16300	16180	15670	30430	25750	23950	22000
MIN	18110	17480	17010	16640	16290	15960	15650	14980	14900	24000	22070	20360
(+)	728.18	727.53	727.13	726.81	726.54	726.38	725.93	725.30	733.64	732.46	731.12	729.85
(@)	-900	-780	-470	-370	-300	-180	-510	-670	+10800	-1780	-1930	-1710

CAL YR 1999 MAX 26390 MIN 17010 (@) -8570
WTR YR 2000 MAX 30430 MIN 14900 (@) +1200

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

08091900 LAKE PAT CLEBURNE NEAR CLEBURNE, TX--Continued



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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jul 1924 to Sep 1925, Nov 1947 to Sep 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. Jul 29, 1924 to Sep 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 Jul 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 good. Since water year 1965, at least 10% of contributing drainage area has been regulated by Lake Pat Cleburne (station 08091900, conservation pool storage 25,730 acre-ft) located 13 mi upstream. 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 ft^3/s (47,890 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--21 years (water years 1965-85), 81.2 ft^3/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 ft^3/s May 17, 1949 (gage height, 24.0 ft, from floodmark).

EXTREMES FOR REGULATED PERIOD.--Maximum discharge, 79,600 ft^3/s May 17, 1989 (gage height, 33.44 ft), from rating curve extended above 22,200 ft^3/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 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	1030	17,600	21.21	Jun 15	0915	14,200	16.89
Jun 10	2230	3,440	7.45				

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN											
24...	1230	3.6	758	8.5	10.0	6.7	12.5	114	--	180	17
APR											
26...	1325	3.6	781	9.3	27.0	.60	--	--	.8	210	43
JUL											
19...	1200	1.9	776	8.7	30.8	2.1	13.6	186	3.6	170	--
25...	1215	1.2	804	8.9	28.2	1.6	14.5	190	1.1	170	35

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
JAN											
24...	63	4.7	81	3	15	160	140	45	.53	1.1	465
APR											
26...	76	5.6	75	2	15	170	150	56	.47	3.9	503
JUL											
19...	57	6.5	96	3	12	180	130	57	.32	13	507
25...	56	6.8	91	3	14	130	160	64	.31	10	508

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
24...	447	14	<.010	.350	.038	.47	.51	.568	.471	1.4
APR										
26...	483	1	<.010	.415	.020	.59	.61	.392	.323	.99
JUL										
19...	488	<10	<.010	2.58	.020	.53	.55	.535	.593	1.8
25...	492	<10	<.010	2.33	<.020	--	.69	.399	.348	1.1

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JAN										
24...	6.7	3.0	<1.0	3	37	<1.0	<1.0	<.80	<1.0	1.3
APR										
26...	6.7	5.8	<1.0	4	62	<1.0	<1.0	15	<1.0	2.0
JUL										
19...	13	--	--	--	--	--	--	--	--	--
25...	6.7	24	<1.0	3	70	<1.0	<1.0	<.80	<1.0	2.8

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JAN										
24...	E8.4	<1.0	17	<.2	285	3.0	<2	<1.0	5.7	<1.0
APR										
26...	E6.5	<1.0	2.4	<.2	380	2.3	<2	<1.0	5.2	<1.0
JUL										
19...	<10	--	3.3	--	--	--	--	--	--	--
25...	<10	<1.0	5.2	<.2	308	3.2	<2	<1.0	9.7	<1.0

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 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Dec 1951 to current year. Prior to Oct 1970, published as "Whitney Reservoir". Prior to Oct 1980, published as "Whitney Lake".
Water-quality records.--Chemical data: Mar 1960 to Sep 1987. Biochemical data: Sep 1970 to Aug 1987.

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.--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 ft^3/s. The capacity table is based on a survey made in Apr and May 1959. Conservation pool storage is 622,800 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)	532.8
Lowest controlled outlet (invert)	448.8

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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, 618,700 acre-ft, Jun 21, elevation, 532.64 ft; minimum contents, 411,700 acre-ft, Jun 2, elevation, 522.04 ft.

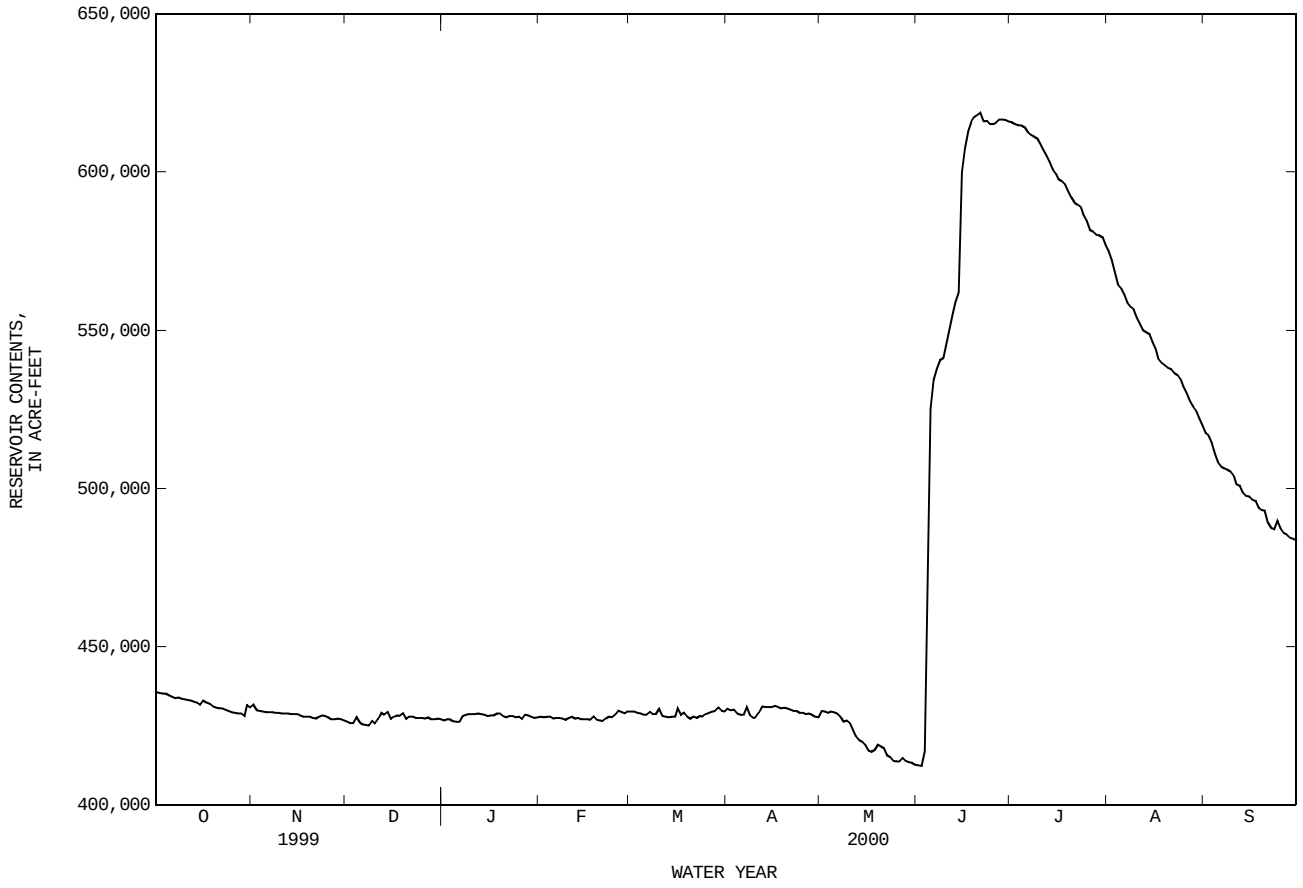
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435600	431400	426300	426700	427800	429500	430300	429800	412500	615800	575200	517600
2	435400	430000	425800	427200	427700	429500	430000	429500	412300	615400	572300	517000
3	435300	429600	425800	427200	427800	429100	430100	429100	417000	614900	568600	514800
4	435100	429500	427700	426500	427800	428800	429000	429500	494300	614900	564400	511200
5	434600	429300	426000	426200	427300	428500	428500	429300	525100	614200	563300	508400
6	434100	429300	425500	426200	427500	428500	428500	428800	534400	612600	561100	507000
7	433800	429300	425200	428100	427500	429300	430900	427800	538000	611900	558500	506500
8	433900	429100	425000	428500	427300	428600	428300	426200	540500	611400	557400	506100
9	433600	429100	426500	428600	426800	428600	427500	426700	541200	610700	556800	505500
10	433300	429000	425700	428600	427500	430300	427700	425800	546100	609100	554200	503900
11	433100	429000	427000	428600	427800	428100	429100	423500	550800	607300	552000	501400
12	432900	428800	429100	428800	427300	427800	431100	421700	555500	605400	550100	501000
13	432600	428600	428500	428600	427500	427700	430900	420600	559000	603400	549500	498700
14	432300	428600	429300	428500	427200	427800	430900	419900	562000	600900	548800	497700
15	431400	428600	427200	428100	427000	427800	430900	419000	599900	599500	546300	497500
16	432900	428300	428000	428300	427200	430500	431300	417200	607700	597900	544100	496600
17	432300	427800	428300	428300	426800	428500	430900	416700	613000	597200	541000	496000
18	431900	427800	428100	429000	427800	429100	430500	417300	616100	596300	539700	493900
19	431100	428000	428800	429000	426800	428000	430800	419000	617500	594000	539100	493300
20	430800	427500	427200	428100	426700	427300	430500	418600	618200	592000	538200	493100
21	430500	427300	427800	427700	426500	428000	430100	418000	618600	590400	537800	489200
22	430500	427800	427800	428100	427300	427500	429800	415700	616100	589700	536500	487500
23	430100	428300	427500	428100	428000	428100	429800	415100	616300	589100	535900	487100
24	429600	428100	427500	427700	427700	428000	429100	413900	615400	586600	534400	489700
25	429300	427700	427500	427800	428500	428600	429100	413800	615400	584800	532400	487300
26	429100	427200	427300	427200	429600	429100	428600	413800	615600	581900	530300	486000
27	429000	427000	427700	428500	429300	429500	429000	414700	616800	581200	527800	485600
28	428800	427300	427200	428300	429000	429800	428500	413900	616800	580300	525900	484500
29	428100	427000	427200	427800	429500	430800	427800	413600	616500	580100	524700	484200
30	431400	426700	427300	427500	---	429600	427700	413300	616100	579400	522300	483800
31	430800	---	427200	427700	---	429500	---	412800	---	576800	520000	---
MAX	435600	431400	429300	429000	429600	430800	431300	429800	618600	615800	575200	517600
MIN	428100	426700	425000	426200	426500	427300	427500	412800	412300	576800	520000	483800
(+)	523.21	522.96	522.99	523.02	523.13	523.13	523.02	522.11	532.52	530.80	528.14	526.27
(@)	-5500	-4100	+500	+500	+1800	0	-1800	-14900	+203300	-39300	-56800	-36200

CAL YR 1999 MAX 494900 MIN 425000 (@) -48700
WTR YR 2000 MAX 618600 MIN 412300 (@) +47500

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

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: Sep 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 1999 TO SEPTEMBER 2000

315203097222601 - Lk Whitney Site AC

DATE	TIME	RESER-VOIR STORAGE (AC-FT) (00054)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
JAN											
24...	1040	428000	1.00	1390	8.2	12.0	1.34	9.6	90	K1	K2
24...	1042	--	10.0	1390	8.2	12.0	--	9.5	89	--	--
24...	1044	--	20.0	1390	8.2	12.0	--	9.5	89	--	--
24...	1046	--	30.0	1390	8.2	12.0	--	9.5	89	--	--
24...	1048	--	40.0	1390	8.2	12.0	--	9.4	88	--	--
24...	1050	--	50.0	1390	8.2	12.0	--	9.4	88	--	--
24...	1052	--	60.0	1390	8.2	12.0	--	9.1	85	--	--
24...	1054	--	70.0	1390	8.1	11.5	--	8.5	79	--	--
24...	1056	--	80.0	1390	7.9	11.5	--	7.3	67	--	--
24...	1058	--	88.0	1400	7.8	11.5	--	6.5	60	--	--
APR											
26...	1436	429000	1.00	1460	8.2	23.5	4.14	8.7	103	K1	<2
26...	1438	--	10.0	1450	8.2	21.0	--	8.9	101	--	--
26...	1440	--	20.0	1450	8.1	20.5	--	8.5	95	--	--
26...	1442	--	30.0	1450	8.0	19.5	--	7.9	87	--	--
26...	1444	--	40.0	1450	7.9	19.0	--	7.4	81	--	--
26...	1446	--	50.0	1450	7.7	18.5	--	6.5	70	--	--
26...	1448	--	60.0	1450	7.7	18.0	--	6.2	66	--	--
26...	1450	--	70.0	1450	7.6	18.0	--	5.6	60	--	--
26...	1452	--	80.0	1450	7.4	17.5	--	4.3	45	--	--
26...	1454	--	88.0	1450	7.4	17.5	--	4.3	45	--	--
JUL											
25...	1255	585000	1.00	1340	8.5	30.0	1.52	7.4	100	<2	<2
JUL											
25-25	1255	--	--	--	--	--	--	--	--	--	--
25...	1257	--	10.0	1340	8.5	30.0	--	7.4	100	--	--
25...	1259	--	20.0	1350	7.7	28.5	--	2.8	37	--	--
25...	1301	--	30.0	1360	7.4	28.0	--	.1	1	--	--
25...	1303	--	40.0	1360	7.4	27.0	--	.1	1	--	--
25...	1305	--	50.0	1360	7.4	26.0	--	.1	1	--	--
25...	1307	--	60.0	1360	7.4	24.5	--	.1	1	--	--
25...	1309	--	70.0	1400	7.4	23.5	--	.1	1	--	--
25...	1311	--	80.0	1450	7.4	22.0	--	.1	1	--	--
25...	1313	--	94.0	1470	7.3	21.0	--	.0	0	--	--

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

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

315203097222601 - Lk Whitney Site AC

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS 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)
JAN											
24...	260	160	66.9	21.8	181	5	60	7.7	--	100	133
24...	--	--	--	--	--	--	--	--	--	--	--
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24...	260	160	67.0	21.8	181	5	60	5.6	--	100	132
APR											
26...	260	140	68.3	21.9	183	5	60	6.3	119	--	138
26...	--	--	--	--	--	--	--	--	--	--	--
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26...	260	140	69.7	21.7	177	5	59	6.0	120	--	135
JUL											
25...	220	130	58.1	19.1	166	5	61	5.9	95	--	123
JUL											
25-25	--	--	--	--	--	--	--	--	--	--	--
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25...	260	120	68.6	20.8	172	5	59	5.7	141	--	121

315203097222601 - Lk Whitney Site AC

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, 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)
JAN											
24...	288	.3	8.6	768	--	<.010	.067	.020	.30	.32	<.050
24...	--	--	--	--	--	--	--	--	--	--	--
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24...	294	.2	9.4	773	.058	.012	.070	.202	.36	.56	<.050
APR											
26...	303	.3	8.1	801	--	<.010	<.050	<.020	--	.32	<.050
26...	--	--	--	--	--	--	--	--	--	--	--
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26...	--	--	--	--	--	<.010	.051	.037	.36	.40	<.050
26...	--	--	--	--	--	--	--	--	--	--	--
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26...	--	--	--	--	--	--	--	--	--	--	--
26...	298	.3	9.2	789	.057	.045	.102	.225	.35	.57	E.041
JUL											
25...	276	.2	7.5	713	--	<.010	<.050	<.020	--	.31	<.050
JUL											
25-25	--	--	--	--	--	--	--	--	--	--	--
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25...	--	--	--	--	--	<.010	<.050	<.020	--	.29	<.050
25...	--	--	--	--	--	--	--	--	--	--	--
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25...	295	.2	12.7	784	--	<.010	<.050	.914	.31	1.2	.291

315203097222601 - Lk Whitney Site AC

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
JAN											
24...	<.010	--	--	--	<10	E2	--	--	--	--	--
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24...	<.010	--	--	--	<10	54	--	--	--	--	--
APR											
26...	<.010	--	--	--	<10	E1	--	--	--	--	--
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26...	<.010	--	--	--	<10	34	--	--	--	--	--
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26...	.023	.071	--	--	<10	105	--	--	--	--	--
JUL											
25...	<.010	--	18.1	<.1	<10	E1	--	--	--	--	--
JUL											
25-25	--	--	--	--	--	--	<.003	<.002	<.002	<.002	.114
25...	--	--	--	--	--	--	--	--	--	--	--
25...	<.010	--	--	--	<10	11	--	--	--	--	--
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25...	.261	.800	--	--	50	1170	--	--	--	--	--

315203097222601 - Lk Whitney Site AC

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)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
JAN											
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APR											
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JUL											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25-25	<.001	<.002	<.002	<.003	<.003	<.004	<.005	<.004	<.002	E.031	<.005
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08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

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

315203097222601 - Lk Whitney Site AC

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
JAN											
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APR											
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JUL											
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JUL											
25-25	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	.009	<.004
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315203097222601 - Lk Whitney Site AC

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)
JAN										
24...	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
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26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
25-25	<.004	<.003	<.006	<.004	<.006	<.004	<.004	<.002	<.018	<.007
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
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315203097222601 - Lk Whitney Site AC

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JAN										
24...	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
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26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
25-25	<.004	<.013	<.003	.028	E.009	<.007	<.013	<.002	<.001	<.002
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
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315214097222001 - Lk Whitney Site AL

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN							
24...	1115	1.00	1390	8.3	11.8	9.0	84
24...	1117	10.0	1390	8.3	12.0	8.8	82
24...	1119	20.0	1390	8.3	12.0	8.8	82
24...	1121	30.0	1390	8.3	12.0	8.7	81
24...	1123	40.0	1390	8.3	12.0	8.8	82
24...	1125	50.0	1390	8.3	12.0	8.9	83
APR							
26...	1516	1.00	1460	8.2	22.5	8.8	103
26...	1518	10.0	1460	8.2	21.0	8.8	100
26...	1520	20.0	1450	8.1	20.5	8.4	94
26...	1522	30.0	1450	8.0	20.0	7.9	88
26...	1524	40.0	1450	7.9	19.0	7.3	80
26...	1526	48.0	1450	7.8	18.5	7.1	77
JUL							
25...	1328	1.00	1340	8.5	30.5	8.0	108
25...	1330	10.0	1340	8.5	29.5	8.1	108
25...	1332	20.0	1350	7.9	28.5	4.2	55
25...	1334	30.0	1360	7.4	28.0	.1	1
25...	1336	40.0	1360	7.4	27.0	.1	2
25...	1338	50.0	1360	7.4	26.0	.2	3

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

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

315432097234601 - Lk Whitney Site CC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN							
24...	1210	1.00	1390	8.3	11.5	8.7	80
24...	1212	10.0	1390	8.3	11.5	8.6	79
24...	1214	20.0	1390	8.2	11.5	8.6	79
24...	1216	30.0	1390	8.2	11.5	8.5	79
24...	1218	40.0	1390	8.2	11.5	8.4	78
24...	1220	50.0	1390	8.2	11.5	8.1	75
24...	1222	60.0	1390	8.1	11.5	7.7	71
24...	1224	70.0	1390	8.0	11.5	7.4	68
24...	1226	78.0	1390	8.0	11.5	7.3	67
APR							
26...	1100	1.00	1460	8.2	21.5	8.4	96
26...	1102	10.0	1460	8.2	20.5	8.2	92
26...	1104	20.0	1460	8.1	20.0	7.8	87
26...	1106	30.0	1460	7.9	19.5	6.9	76
26...	1108	40.0	1450	7.9	19.0	6.8	74
26...	1110	50.0	1450	7.8	18.5	6.3	68
26...	1112	60.0	1450	7.6	18.0	5.7	61
26...	1114	70.0	1450	7.5	18.0	5.6	60
26...	1116	77.0	1450	7.5	18.0	5.6	60
JUL							
25...	0939	1.00	1340	8.4	29.5	7.0	93
25...	0941	10.0	1340	8.4	29.5	6.6	88
25...	0943	20.0	1340	8.3	29.0	6.1	81
25...	0945	30.0	1350	7.5	28.5	1.2	16
25...	0947	40.0	1360	7.4	27.0	.1	1
25...	0949	50.0	1360	7.4	25.5	.1	1
25...	0951	60.0	1380	7.4	24.5	.1	1
25...	0953	70.0	1400	7.3	23.5	.1	1
25...	0955	84.0	1450	7.3	22.0	.1	2

315722097240201 - Lk Whitney Site DC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
JAN										
24...	1245	1.00	1400	8.3	12.0	1.07	9.1	85	<2	<2
24...	1247	10.0	1400	8.3	12.0	--	8.9	83	--	--
24...	1249	20.0	1400	8.3	12.0	--	8.8	82	--	--
24...	1251	30.0	1400	8.3	12.0	--	8.9	83	--	--
24...	1253	40.0	1400	8.2	11.5	--	8.7	80	--	--
24...	1255	50.0	1390	8.2	11.5	--	8.4	78	--	--
24...	1257	60.0	1390	8.1	11.5	--	8.0	74	--	--
24...	1259	67.0	1400	8.1	11.6	--	7.7	71	--	--
APR										
26...	1318	1.00	1470	8.2	24.0	2.59	8.6	103	<2	<2
26...	1320	10.0	1470	8.3	21.0	--	8.8	100	--	--
26...	1322	20.0	1470	8.1	20.5	--	7.6	85	--	--
26...	1324	30.0	1460	7.9	20.0	--	6.6	73	--	--
26...	1326	40.0	1460	7.7	19.0	--	5.9	64	--	--
26...	1328	50.0	1460	7.6	18.5	--	5.2	56	--	--
26...	1330	60.0	1460	7.5	18.5	--	4.2	45	--	--
26...	1332	68.0	1470	7.4	18.5	--	3.7	40	--	--
JUL										
25...	1009	1.00	1330	8.5	30.0	1.28	7.2	97	<2	<2
25...	1011	10.0	1330	8.5	30.0	--	7.2	97	--	--
25...	1013	20.0	1330	8.0	29.0	--	4.3	57	--	--
25...	1015	25.0	1330	7.7	29.0	--	2.7	36	--	--
25...	1017	30.0	1340	7.4	28.0	--	.1	1	--	--
25...	1019	40.0	1350	7.4	27.0	--	.1	1	--	--
25...	1021	50.0	1360	7.4	26.0	--	.1	1	--	--
25...	1023	60.0	1370	7.4	25.5	--	.1	1	--	--
25...	1025	72.0	1390	7.3	24.5	--	.0	0	--	--

315722097240201 - Lk Whitney Site DC

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)
JAN										
24...	260	160	66.9	21.9	182	5	60	5.7	--	100
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	260	150	66.7	21.8	181	5	60	5.6	--	100
APR										
26...	260	140	68.4	22.2	185	5	60	6.4	119	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	270	140	70.8	21.6	177	5	59	6.0	125	--
JUL										
25...	220	120	57.9	18.6	161	5	61	5.8	98	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	240	110	65.1	19.8	169	5	59	6.0	134	--

315722097240201 - Lk Whitney Site DC

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, 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)
JAN									
24...	134	295	.3	8.4	775	--	<.010	<.050	<.020
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	134	292	.3	9.1	771	--	<.010	.058	.083
APR									
26...	139	302	.3	7.9	803	--	<.010	<.050	<.020
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	.010	<.050	.037
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	134	298	.3	9.5	793	.038	.025	.063	.326
JUL									
25...	121	270	.2	7.6	701	--	<.010	<.050	<.020
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	<.010	<.050	<.020
25...	--	--	--	--	--	--	<.010	<.050	<.020
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	112	280	.4	10.4	745	--	<.010	<.050	.961

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

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

315722097240201 - Lk Whitney Site DC

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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JAN									
24...	--	.34	<.050	<.010	--	--	--	<10	<2
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	.34	.42	<.050	<.010	--	--	--	<10	20
APR									
26...	--	.36	<.050	<.010	--	--	--	<10	E1
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	.35	.39	<.050	<.010	--	--	--	<10	3
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	.36	.69	E.035	.020	.061	--	--	<10	78
JUL									
25...	--	.34	<.050	<.010	--	9.5	<.1	<10	E2
25...	--	--	--	--	--	--	--	--	--
25...	--	.31	<.050	<.010	--	--	--	<10	6
25...	--	.30	<.050	<.010	--	--	--	<10	3
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	.31	1.3	.194	.169	.518	--	--	100	944

320122097260901 - Lk Whitney 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JAN									
24...	1405	1.00	1450	8.4	13.0	--	8.8	84	<.010
24...	1407	10.0	1450	8.3	12.0	--	8.1	76	--
24...	1409	20.0	1450	8.3	12.0	--	8.0	75	--
24...	1411	30.0	1440	8.3	11.0	--	8.0	73	--
24...	1413	42.0	1430	8.2	11.0	--	7.4	68	<.010
APR									
26...	1212	1.00	1540	8.2	24.0	--	8.2	98	<.010
26...	1214	10.0	1530	8.0	21.5	--	6.7	77	--
26...	1216	20.0	1490	7.8	20.0	--	5.3	59	--
26...	1218	30.0	1480	7.6	19.0	--	4.6	50	--
26...	1220	41.0	1480	7.5	19.0	--	4.7	51	.013
JUL									
25...	1118	1.00	1260	8.1	29.5	.91	4.6	61	<.010
25...	1120	10.0	1260	8.1	29.5	--	4.3	57	--
25...	1122	20.0	1260	7.9	29.5	--	3.8	51	--
25...	1124	30.0	1260	7.7	29.0	--	2.6	34	--
25...	1126	40.0	1340	7.4	26.5	--	.1	1	--
25...	1128	48.0	1350	7.3	26.0	--	.0	0	<.010

320122097260901 - Lk Whitney Site FC

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JAN									
24...	<.050	<.020	--	.33	<.050	<.010	--	<10	E1
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	<.050	.039	.30	.34	<.050	<.010	--	<10	18
APR									
26...	<.050	<.020	--	.34	<.050	<.010	--	<10	8
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	<.050	.205	.40	.60	<.050	<.010	--	<10	79
JUL									
25...	<.050	<.020	--	.33	<.050	<.010	--	<10	6
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	<.050	.827	.36	1.2	.167	.140	.429	120	889

315907097222801 - Lk Whitney Site P07

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JAN									
24...	1325	1.00	1400	8.3	12.0	--	8.0	75	<.010
24...	1327	10.0	1400	8.2	12.0	--	7.8	73	--
24...	1329	20.0	1400	8.2	12.0	--	7.7	72	--
24...	1331	30.0	1400	8.2	12.0	--	7.7	72	--
24...	1333	39.0	1400	8.2	11.5	--	7.6	70	<.010
APR									
26...	1140	1.00	1480	8.2	22.5	2.29	8.5	99	<.010
26...	1142	10.0	1470	8.2	21.0	--	8.4	95	--
26...	1144	20.0	1470	7.9	20.5	--	6.7	75	--
26...	1146	30.0	1470	7.7	19.5	--	5.6	62	--
26...	1148	40.0	1480	7.4	19.0	--	3.5	38	.013
JUL									
25...	1049	1.00	1320	8.1	29.0	1.19	4.9	65	<.010
25...	1051	10.0	1320	8.0	29.0	--	4.4	58	--
25...	1053	20.0	1320	8.0	28.5	--	4.5	59	--
25...	1055	30.0	1330	7.7	28.5	--	3.0	39	--
25...	1057	39.0	1340	7.4	27.5	--	.0	0	<.010

315907097222801 - Lk Whitney Site P07

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JAN									
24...	<.050	.024	.34	.36	<.050	<.010	--	<10	E1
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
24...	<.050	.043	.31	.35	<.050	<.010	--	<10	25
APR									
26...	<.050	<.020	--	.34	<.050	<.010	--	<10	7
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
26...	<.050	.274	.37	.65	<.050	<.010	--	<10	150
JUL									
25...	<.050	<.020	--	.30	<.050	<.010	--	<10	4
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	<.050	.248	.30	.55	<.050	.019	.058	70	500

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

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

320401097291301 - Lk Whitney 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)
JAN										
24...	1435	1.00	1800	8.2	13.0	.64	7.7	74	<2	K6
24...	1437	10.0	1800	8.2	12.0	--	7.5	70	--	--
24...	1439	16.0	1770	8.1	12.0	--	7.7	72	--	--
APR										
26...	1238	1.00	1650	8.4	24.5	.64	9.5	115	<2	<2
26...	1240	10.0	1690	7.8	22.0	--	5.6	65	--	--
26...	1242	15.0	1660	7.4	21.5	--	3.3	38	--	--
JUL										
25...	1150	1.00	1120	8.4	31.0	.76	6.7	92	<2	<2
25...	1152	10.0	1110	8.2	31.0	--	5.5	75	--	--
25...	1153	15.0	1110	7.7	30.5	--	2.1	28	--	--
25...	1154	21.0	1140	7.4	30.0	--	.0	0	--	--

320401097291301 - Lk Whitney Site P11

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
JAN									
24...	320	210	81.3	28.4	246	6	62	7.2	--
24...	--	--	--	--	--	--	--	--	--
24...	320	210	80.9	28.2	244	6	62	7.0	--
APR									
26...	290	160	74.7	25.5	208	5	60	8.0	127
26...	--	--	--	--	--	--	--	--	--
26...	290	160	74.8	25.2	205	5	60	7.8	134
JUL									
25...	220	88	63.2	14.5	123	4	54	6.6	130
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	220	87	63.9	14.6	124	4	54	6.4	133

320401097291301 - Lk Whitney Site P11

DATE	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)
JAN									
24...	110	177	411	.3	6.3	1020	<.010	<.050	.090
24...	--	--	--	--	--	--	--	--	--
24...	110	174	388	.3	6.5	995	<.010	<.050	.106
APR									
26...	--	157	338	.3	4.0	891	<.010	<.050	<.020
26...	--	--	--	--	--	--	<.010	<.050	.031
26...	--	158	342	.3	5.1	899	<.010	<.050	.177
JUL									
25...	--	87.1	205	.2	9.1	587	<.010	<.050	<.020
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	<.010	<.050	<.020
25...	--	86.2	203	.2	9.6	588	<.010	<.050	.038

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

320401097291301 - Lk Whitney Site P11

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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JAN									
24...	.39	.48	<.050	<.010	--	--	--	<10	2
24...	--	--	--	--	--	--	--	--	--
24...	.37	.47	<.050	<.010	--	--	--	<10	6
APR									
26...	--	.40	<.050	<.010	--	--	--	<10	E2
26...	.39	.42	<.050	<.010	--	--	--	<10	79
26...	.41	.58	<.050	<.010	--	--	--	<10	243
JUL									
25...	--	.40	<.050	<.010	--	24.7	1.1	<10	E1
25...	--	--	--	--	--	--	--	--	--
25...	--	.42	<.050	<.010	--	--	--	<10	2
25...	.40	.44	<.050	.011	.034	--	--	50	332

315500097204001 - Lk Whitney 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)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
JAN									
24...	1150	1.00	1390	8.2	11.5	--	8.4	78	<.010
24...	1152	10.0	1390	8.2	11.5	--	8.2	76	--
24...	1154	22.0	1390	8.2	11.0	--	8.2	75	<.010
APR									
26...	1039	1.00	1460	8.0	20.0	1.83	8.1	90	<.010
26...	1041	10.0	1460	8.1	20.5	--	8.4	94	--
26...	1043	22.0	1460	8.2	22.0	--	8.4	97	<.010
JUL									
25...	0915	1.00	1350	8.4	28.5	1.07	6.7	88	<.010
25...	0917	10.0	1350	8.3	28.5	--	6.4	84	--
25...	0919	24.0	1350	8.2	28.5	--	5.9	77	<.010

315500097204001 - Lk Whitney Site P15

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JAN								
24...	.066	<.020	--	.32	<.050	<.010	<10	<2
24...	--	--	--	--	--	--	--	--
24...	.067	.028	.31	.34	<.050	<.010	<10	E1
APR								
26...	<.050	<.020	--	.37	<.050	<.010	<10	<2
26...	--	--	--	--	--	--	--	--
26...	<.050	<.020	--	.38	<.050	<.010	<10	<2
JUL								
25...	<.050	<.020	--	.30	<.050	<.010	<10	<2
25...	--	--	--	--	--	--	--	--
25...	<.050	<.020	--	.30	<.050	<.010	<10	8

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

Lake Whitney Site AC (315203097222601)

Phytoplankton Analyses October 1999 to September 2000

Date	1/24/00
Time	1040
TOTAL CELLS/mL	36,799
NUMBER OF SPECIES	14
DEPTH COLLECTED (ft)	2.2

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	30
CHLOROPHYTA	
Ankistrodesmus falcatus	150
Chlamydomonas sp.	360
Cosmarium sp.	60
Crucigenia tetrapedia	270
Lagerheima sp.	90
Scenedesmus acuminatus	150
Scenedesmus opoliensis	450
Selenastrum Westii	360
Tetrastrum punctatum	60
CYANOPHYTA	
Aphanocapsa delicatissima	26,991
Aphanocapsa elachista	600
Merismopedia tenuissima	7,198
EUGLENOPHYTA	
Trachelomonas sp.	30

Lake Whitney Site P11 (320401097291301)

Phytoplankton Analyses October 1999 to September 2000

Date	1/24/00
Time	1435
TOTAL CELLS/mL	24,022
NUMBER OF SPECIES	12
DEPTH COLLECTED (ft.)	1.05

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	120
CHLOROPHYTA	
Ankistrodesmus falcatus	210
Chlamydomonas sp.	210
Cosmarium sp.	30
Oocystis sp.	30
Scenedesmus acuminatus	60
Scenedesmus opoliensis	30
CYANOPHYTA	
Aphanocapsa delicatissima	17,994
Aphanocapsa elachista	2,099
Chroococcus limneticus	120
Merismopedia tenuissima	2,879
EUGLENOPHYTA	
Trachelomonas sp.	240

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

Lake Whitney Site AC (315203097222601)

Phytoplankton Analyses October 1999 to September 2000

Date	4/26/00
Time	1436
TOTAL CELLS/mL	28,951
NUMBER OF SPECIES	25
DEPTH COLLECTED (ft)	6.8

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Anomoeoneis vitrea	9
CHLOROPHYTA	
Ankistrodesmus falcatus	26
Crucigenia apiculata	104
Crucigenia tetrapedia	69
Dictyosphaerium pulchellum	521
Non-motile Chlorococcales-spherical	165
Oocystis borgei	4
Oocystis parva	35
Pediastrum duplex	44
Scenedesmus bijuga	278
Scenedesmus dimorphus	9
CYANOPHYTA	
Anabaena flos-aquae	66
Aphanocapsa delicatissima	3,631
Aphanothece nidulans	226
Dactylococcopsis irregularis	9
Merismopedia tenuissima	35
Microcystis aeruginosa-colony form	21,298
Microcystis aeruginosa-single cells	1,693
CHRYSOPHYTA	
Ellipsoidion sp.	9
PYRRHOPHYTA	
Ceratium hirundinella	17
Gymnodinium sp. 2	9
Peridinium umbonatum	9
CRYPTOPHYTA	
Cryptomonas erosa	26
Rhodomonas minuta v. *nannoplanctica*	399
Misc. microflagellate	260

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

Lake Whitney Site P11 (320401097291301)

Phytoplankton Analyses October 1999 to September 2000

Date	4/26/00
Time	1238
TOTAL CELLS/mL	147,458
NUMBER OF SPECIES	25
DEPTH COLLECTED (ft.)	1.05

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus parvus	18,882
Order Pennales	
Diploneis puella	22
CHLOROPHYTA	
Ankistrodesmus falcatus	130
Chlamydomonas globosa	65
Crucigenia tetrapedia	955
Monoraphidium capricornutum	260
Non-motile Chlorococcales-spherical	18,230
Oocystis parva	326
Scenedesmus bijuga	260
Scenedesmus intermedius	434
Scenedesmus quadricauda	478
Scenedesmus quadricauda v. *longispina*	87
Scenedesmus sp. 2	5,643
Sphaerocystis schroeteri	478
Tetraedron minimum	43
Tetrastrum staurogeniaeforme	87
CYANOPHYTA	
Aphanocapsa delicatissima	93,861
Aphanothece nidulans	1,302
Gomphosphaeria lacustris	651
Merismopedia tenuissima	608
Non-motile blue-greens (>1 um)	781
PYRRHOPHYTA	
Ceratium hirundinella	11
CRYPTOPHYTA	
Cryptomonas erosa	87
Rhodomonas minuta v. *nannoplanctica*	2,735
Misc. microflagellate	1,042

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

Lake Whitney Site AC (315203097222601)

Phytoplankton Analyses October 1999 to September 2000

Date	7/25/00
Time	1312
TOTAL CELLS/mL	83,287
NUMBER OF SPECIES	33
DEPTH COLLECTED (ft)	2.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclostephanos invisitatus	174
Order Pennales	
Diploneis sp.	15
Synedra tenera	87
CHLOROPHYTA	
Ankistrodesmus convolutus	87
Chlamydomonas globosa	347
Chlamydomonas incerta	174
Cosmarium tenue	260
Crucigenia tetrapedia	695
Mougeotia sp.	59
Non-motile Chlorococcales-spherical	260
Oocystis parva	521
Scenedesmus bijuga	174
Staurastrum hexacerum	29
Tetrastrum glabrum	347
CYANOPHYTA	
Anabaena aphanizomenoides	1,563
Anabaena circinalis	3,473
Aphanocapsa delicatissima	5,209
Aphanothece nidulans	15,047
Chroococcus minimus	347
Cylindrospermopsis philippinensis	5,903
Dactylococcopsis irregularis	11,459
Lyngbya limnetica	7,813
Merismopedia punctata	1,042
Merismopedia tenuissima	2,084
Non-motile blue-greens (>1 um)	955
Oscillatoria limnetica	18,665
CHRYSOPHYTA	
Polygoniochloris sp.	87
PYRRHOPHYTA	
Gymnodinium sp. 1	15
Gymnodinium sp. 2	87
Peridinium cinctum	15
Peridinium umbonatum	174
CRYPTOPHYTA	
Cryptomonas erosa	260
Misc. micros, 1 flagellum	5,860

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

Lake Whitney Site P11 (320401097291301)

Phytoplankton Analyses October 1999 to September 2000

Date	7/25/00
Time	1150
TOTAL CELLS/mL	74,528
NUMBER OF SPECIES	23
DEPTH COLLECTED (ft.)	1.3

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus minutulus	781
Order Pennales	
Nitzschia palea	1,823
CHLOROPHYTA	
Ankistrodesmus convolutus	260
Ankistrodesmus falcatus	521
Chlamydomonas globosa	260
Chlamydomonas incerta	521
Chlamydomonas platystigma	260
Crucigenia tetrapedia	521
Dictyosphaerium pulchellum	351
Oocystis parva	1,302
Schroederia judayi	260
CYANOPHYTA	
Anabaenopsis circularis	526
Aphanocapsa delicatissima	14,584
Aphanothece nidulans	1,563
Chroococcus minimus	4,167
Cylindrospermopsis philippinensis	1,302
Dactylococcopsis irregularis	8,855
Non-motile blue-greens (>1 um)	4,427
Oscillatoria limnetica	25,210
EUGLENOPHYTA	
Lepocinclis sp.	44
Phacus sp.	88
CRYPTOPHYTA	
Rhodomonas minuta v. *nannoplanctica*	1,042
Misc. micros, 1 flagellum	5,860

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 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--
CHEMICAL DATA: Aug 1946 to Sep 1997, Oct 1998 to current year.
BIOCHEMICAL DATA: Oct 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1947 to Sep 1997 (local observer).
WATER TEMPERATURE: Aug 1947 to Jun 1953 (local observer). Jul 1953 to Sep 1966. Oct 1966 to Sep 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. 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, Aug 24, 1978; minimum daily, 203 microsiemens, May 23, 1952.
WATER TEMPERATURE: Maximum daily, 33.5 C Jul 3, 1973; minimum daily, 0.0 C on Jan 28, 29, 1948.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN											
24...	1020	24	1460	8.5	11.0	2.4	11.0	103	8.3	250	140
APR											
26...	0900	11	1300	8.3	19.0	.50	9.2	101	.6	250	130
JUL											
19...	0930	15	1350	8.0	24.5	1.6	6.5	80	.5	250	120
25...	0940	247	1410	8.1	23.3	1.3	9.4	113	.5	250	120

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
JAN											
24...	66	22	183	5	5.6	120	130	300	.33	7.5	814
APR											
26...	66	21	179	5	6.3	120	140	290	.33	6.5	818
JUL											
19...	67	20	170	5	5.2	120	120	270	.23	8.1	784
25...	66	20	172	5	5.4	130	120	290	.24	9.2	790

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
JAN										
24...	782	5	<.010	.061	.049	.34	.39	<.050	<.010	--
APR										
26...	778	<1	<.010	<.050	<.020	--	.39	<.050	<.010	--
JUL										
19...	739	<10	<.010	<.050	<.020	--	.31	E.041	.021	.06
25...	766	<10	<.010	.081	.071	.34	.41	.052	.050	.15

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JAN										
24...	5.2	14	<1.0	E1	121	<1.0	<1.0	<.80	<1.0	<1.0
APR										
26...	4.7	<1.0	<1.0	E1	124	<1.0	<1.0	--	<1.0	2.4
JUL										
19...	4.5	8.2	<1.0	4	104	<1.0	<1.0	E.77	<1.0	1.7
25...	4.4	9.9	<1.0	4	114	<1.0	<1.0	1.4	<1.0	<1.0

08092600 BRAZOS RIVER AT WHITNEY DAM NEAR WHITNEY, TX--Continued

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

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JAN										
24...	<10	<1.0	15	<.2	5.8	1.1	<2	<1.0	4.6	1.5
APR										
26...	<10	<1.0	9.1	<.2	6.1	<1.0	<2	<1.0	3.6	1.6
JUL										
19...	<10	<1.0	64	<.2	6.6	1.4	<2	<1.0	3.1	1.2
25...	<10	<1.0	196	<.2	6.2	<1.0	<2	<1.0	1.1	1.2

08093100 BRAZOS RIVER NEAR AQUILLA, TX

LOCATION.--Lat 31°48′44", long 97°17′51", Bosque County, Hydrologic Unit 12060202, on right bank at downstream side of highway embankment near right end of bridge on Farm Road 2114, 2.0 mi downstream from Tener Creek, 4.9 mi downstream from Iron Creek, 5.4 mi southwest of Aquilla, 9.0 mi downstream from Whitney Dam, and at river mile 434.0.

DRAINAGE AREA.--27,244 mi^2, of which 9,566 mi^2, probably is noncontributing.

PERIOD OF RECORD.--Oct 1938 to current year. Prior to Oct 1974, published as "Brazos River near Whitney".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 404.29 ft above sea level. Prior to Oct 1, 1948, nonrecording gage at site 13.9 mi upstream at datum 27.77 ft higher. Oct 1, 1948, to Feb 12, 1975, at site 5.6 mi upstream at datum 13.10 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those from Sep 3 to Sep 20, which are fair. Since water year 1940, at least 10% of contributing drainage area has been regulated by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft). Most flow occurs as releases from Lake Whitney (station 08092500, conservation pool storage 622,800 acre-ft) 9.0 mi upstream. The Brazos River at Whitney Dam (station 08092600) uses the discharge record at this station for publication of water-quality records. There are diversions above station for irrigation and industrial operations. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--2 years (water years 1939-40) prior to regulation by Possum Kingdom Lake, 1,149 ft^3/s (832,500 acre-ft/yr), at site and datum then in use.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1939-40).--Maximum discharge, 39,800 ft^3/s Jun 19, 1939 (gage height, 19.16 ft), maximum gage height, 19.92 ft Aug 20, 1940, at site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1853, 45 ft May 9, 1922, at site and datum in use Oct 1, 1948, to Feb 12, 1975, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	28	25	27	26	20	97	17	8.7	16	589	1330
2	26	27	20	28	26	21	40	14	9.6	15	1450	409
3	27	27	19	28	26	119	22	12	61	15	1780	906
4	26	29	26	30	24	40	17	49	2080	14	2120	2020
5	24	29	25	25	24	23	15	19	63	143	555	1730
6	27	29	24	26	25	23	15	14	15	959	734	657
7	28	28	25	31	24	23	15	270	12	194	1110	249
8	26	28	26	39	22	23	14	753	11	28	561	23
9	25	27	28	28	24	20	14	326	27	16	199	22
10	27	27	24	26	24	97	15	17	24	242	899	352
11	28	27	28	25	23	233	18	803	46	642	1120	1300
12	28	27	48	26	23	39	75	1810	15	1060	811	660
13	26	26	30	24	23	22	29	372	15	949	343	621
14	24	26	27	24	20	21	22	17	12	1040	20	999
15	25	26	61	25	20	21	19	169	12	486	805	43
16	27	25	54	25	22	22	16	418	48	470	967	43
17	26	25	29	26	27	30	14	309	33	129	1660	89
18	26	28	28	26	22	22	78	17	14	17	506	446
19	27	27	28	25	20	21	64	20	84	662	229	523
20	25	25	27	24	19	19	21	27	195	940	21	209
21	25	26	28	24	19	22	12	74	166	689	18	1470
22	26	27	27	25	21	124	11	951	1240	336	126	1300
23	26	27	27	24	27	33	12	415	495	20	266	190
24	25	25	27	24	22	22	35	197	468	571	472	29
25	26	27	27	24	22	20	19	308	209	772	932	25
26	24	25	27	23	24	19	9.9	21	19	1310	893	228
27	22	26	27	29	21	18	10	14	17	495	997	101
28	23	26	26	28	20	18	9.7	13	80	21	975	232
29	24	26	26	25	22	18	9.9	8.8	101	18	575	369
30	34	22	26	25	---	17	11	8.4	18	17	933	26
31	30	---	27	25	---	46	---	8.2	---	897	1320	---
TOTAL	808	798	897	814	662	1216	759.5	7471.4	5598.3	13183	23986	16601
MEAN	26.1	26.6	28.9	26.3	22.8	39.2	25.3	241	187	425	774	553
MAX	34	29	61	39	27	233	97	1810	2080	1310	2120	2020
MIN	22	22	19	23	19	17	9.7	8.2	8.7	14	18	22
AC-FT	1600	1580	1780	1610	1310	2410	1510	14820	11100	26150	47580	32930

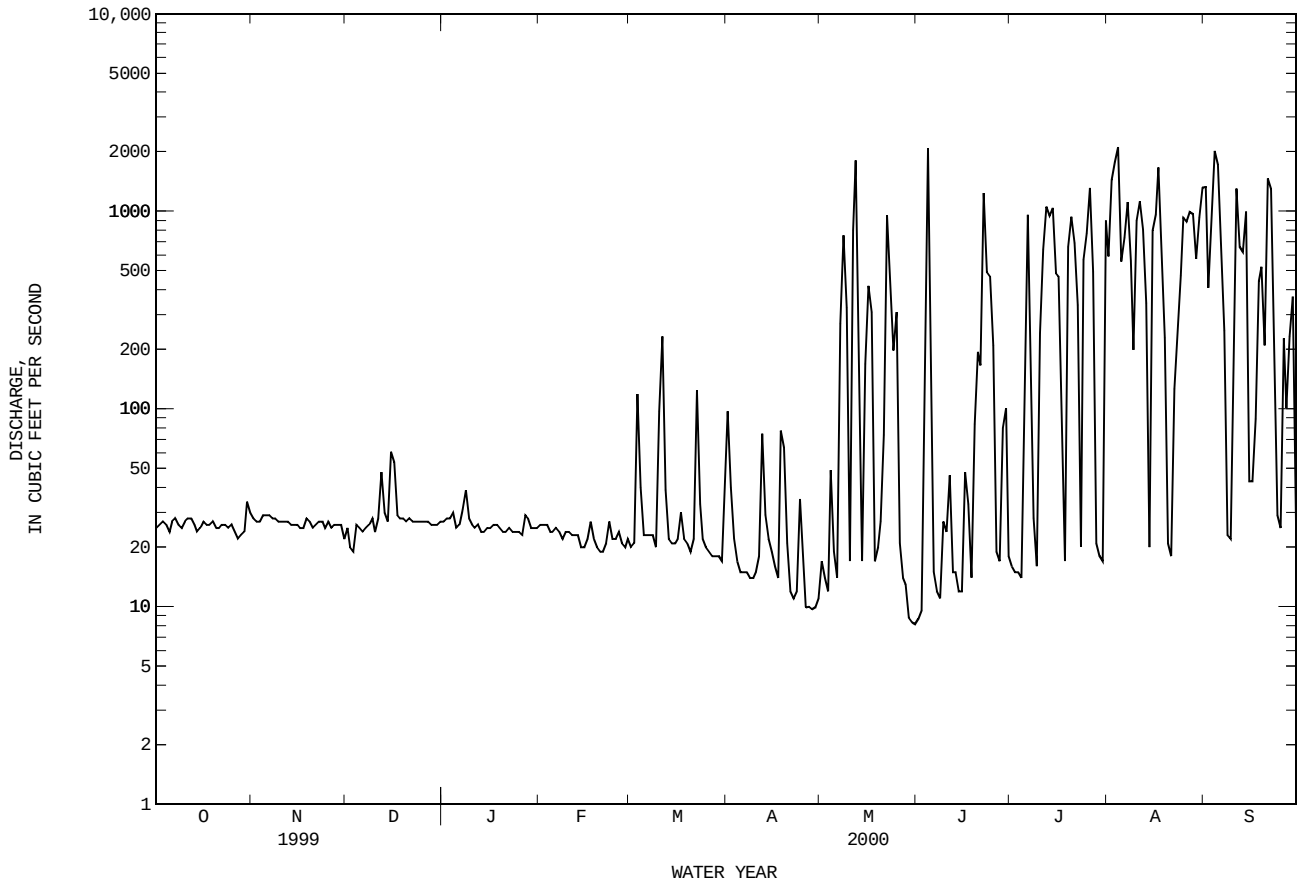
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000z, BY WATER YEAR (WY)

MEAN	1615	1077	886	1112	1219	1515	1532	3560	3302	1355	972	1038
MAX	12300	7201	7148	18010	11190	13700	14340	29670	35640	8110	5252	8249
(WY)	1982	1975	1992	1992	1992	1992	1942	1957	1957	1982	1995	1966
MIN	24.5	20.5	28.9	9.92	15.6	26.7	12.5	13.0	95.5	28.6	61.5	28.1
(WY)	1989	1984	2000	1953	1984	1953	1953	1988	1999	1978	1988	1999

08093100 BRAZOS RIVER NEAR AQUILLA, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000z	
ANNUAL TOTAL	69875		72794.2			
ANNUAL MEAN	191		199		1600	
HIGHEST ANNUAL MEAN					6566	1992
LOWEST ANNUAL MEAN					141	1953
HIGHEST DAILY MEAN	1720	Mar 12	2120	Aug 4	66100	May 18 1949
LOWEST DAILY MEAN	19	Dec 3	8.2	May 31	.40	May 9 1953
ANNUAL SEVEN-DAY MINIMUM	23	Nov 30	10	May 27	.80	May 4 1953
INSTANTANEOUS PEAK FLOW			6990	Jun 4	g71800	May 18 1949
INSTANTANEOUS PEAK STAGE			13.53	Jun 4	g31.03	May 18 1949
ANNUAL RUNOFF (AC-FT)	138600		144400		1159000	
10 PERCENT EXCEEDS	593		781		3200	
50 PERCENT EXCEEDS	33		26		620	
90 PERCENT EXCEEDS	25		16		42	

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



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 mi^2.

PERIOD OF RECORD.--Oct 1983 to current year.
Water-quality records.--Chemical data: Feb 1984 to Jul 1992. Biochemical data: Feb 1984 to Jul 1992.

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

REMARKS.--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	537.4
Lowest gated outlet (invert)	503.0

COOPERATION.--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, 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, 66,960 acre-ft, Jun 5, elevation, 543.06 ft; minimum contents, 35,080 acre-ft, Feb 22, Mar 20, elevation, 533.73 ft.

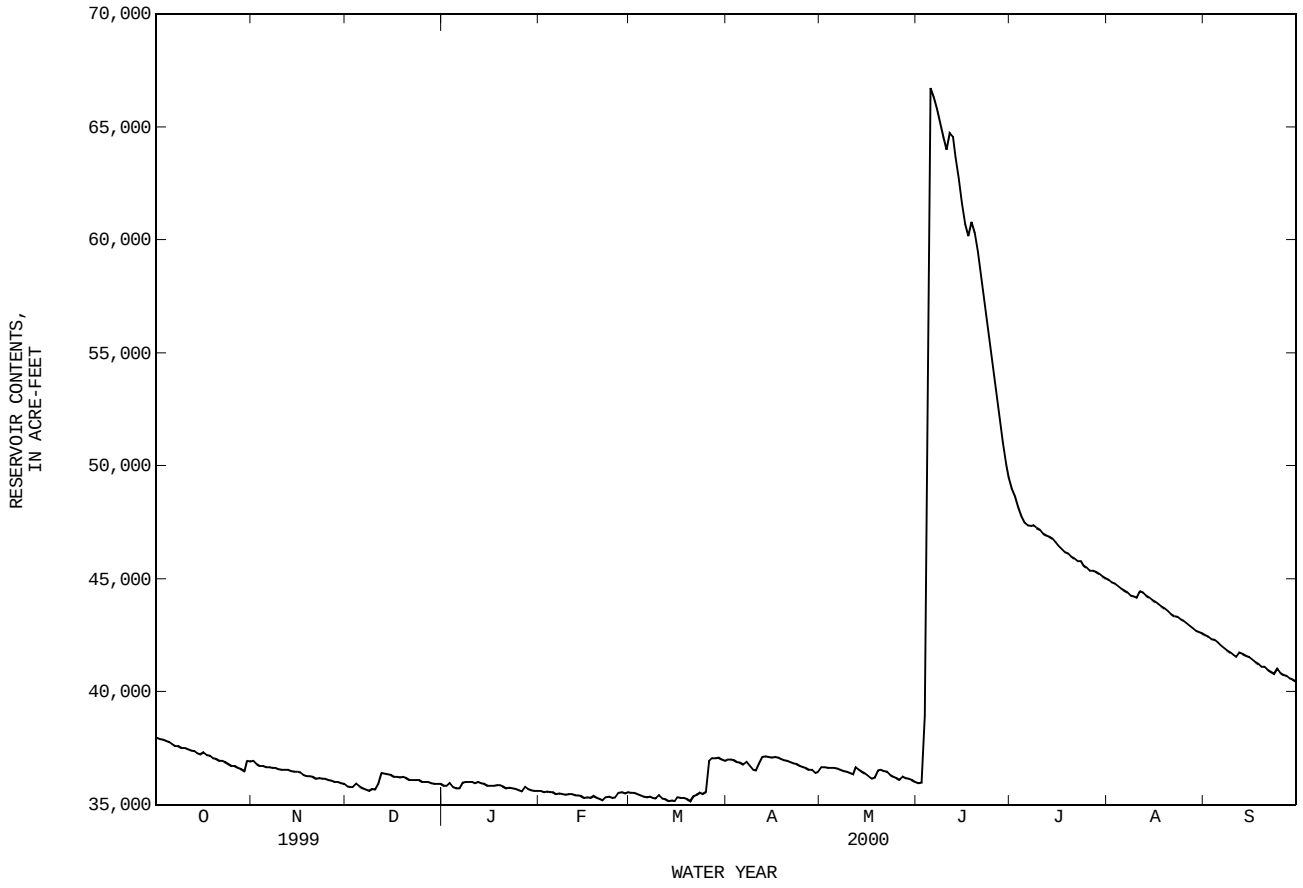
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37970	36960	35830	35860	35630	35520	37010	36670	35960	49000	44960	42500
2	37920	36800	35780	35860	35570	35520	37010	36670	35980	48660	44860	42440
3	37890	36720	35780	35960	35600	35470	36990	36640	38940	48180	44800	42340
4	37830	36720	35930	35780	35550	35420	36910	36640	60720	47780	44670	42320
5	37780	36670	35800	35730	35550	35370	36850	36640	66720	47480	44580	42190
6	37700	36670	35730	35730	35470	35340	36770	36610	66340	47370	44480	42040
7	37610	36640	35680	35980	35500	35370	36880	36560	65830	47340	44390	41920
8	37610	36640	35630	36010	35470	35320	36720	36510	65200	47370	44260	41830
9	37530	36590	35700	36010	35450	35270	36560	36480	64580	47270	44230	41740
10	37500	36560	35680	36010	35470	35420	36530	36400	64000	47180	44170	41620
11	37450	36560	35930	35960	35470	35270	36830	36350	64740	47010	44450	41530
12	37390	36560	36400	36010	35420	35240	37120	36670	64580	46910	44390	41740
13	37370	36510	36380	35960	35420	35170	37150	36560	63670	46880	44260	41680
14	37280	36480	36350	35930	35400	35190	37120	36480	62730	46780	44170	41590
15	37230	36480	36320	35860	35320	35170	37100	36380	61640	46610	44070	41530
16	37310	36430	36240	35860	35340	35340	37120	36270	60720	46480	43980	41420
17	37200	36320	36240	35860	35300	35320	37100	36170	60170	46320	43880	41330
18	37180	36270	36220	35880	35400	35320	37040	36220	60800	46190	43790	41240
19	37070	36270	36240	35880	35320	35240	36990	36530	60320	46120	43700	41120
20	37040	36240	36190	35800	35240	35170	36960	36560	59460	45990	43570	41120
21	36960	36170	36110	35730	35190	35400	36910	36510	58570	45890	43450	40970
22	36960	36190	36090	35750	35340	35450	36830	36480	57460	45800	43360	40880
23	36880	36170	36090	35730	35370	35520	36800	36320	56320	45800	43320	40790
24	36800	36170	36090	35700	35320	35470	36720	36240	55280	45600	43200	41030
25	36720	36110	36010	35650	35340	35570	36670	36190	54260	45500	43140	40820
26	36720	36060	36010	35600	35520	36930	36640	36110	53200	45380	43050	40740
27	36640	36010	36010	35780	35570	37070	36560	36240	52130	45380	42920	40700
28	36590	36010	35960	35700	35500	37070	36560	36190	51040	45310	42800	40620
29	36510	35960	35930	35650	35550	37100	36400	36170	50100	45220	42710	40560
30	36960	35930	35930	35630	---	37010	36460	36090	49510	45120	42650	40470
31	36930	---	35930	35630	---	36960	---	36010	---	45020	42590	---
MAX	37970	36960	36400	36010	35630	37100	37150	36670	66720	49000	44960	42500
MIN	36510	35930	35630	35600	35190	35170	36400	36010	35960	45020	42590	40470
(+)	534.45	534.07	534.07	533.95	533.92	534.46	534.27	534.10	538.50	537.19	536.42	535.71
(@)	-1160	-1000	0	-300	-80	+1410	-500	-450	+13500	-4490	-2430	-2120

CAL YR 1999 MAX 51420 MIN 35630 (@) -11010
WTR YR 2000 MAX 66720 MIN 35170 (@) +2380

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

08093350 AQUILLA LAKE ABOVE AQUILLA, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jan 1939 to current year. 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 Jun 1966, Oct 1967 to Sep 1993. Biochemical data: Jan 1968 to Sep 1992. Specific conductance: May 1965 to Jun 1966, Nov 1967 to Sep 1982. Water temperature: May 1965 to Jun 1966, Nov 1967 to Sep 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.--No estimated daily discharges. Records fair. Since Apr 1983, at least 10% of contributing drainage area has been regulated by Aquilla Lake (station 08093350, conservation pool storage 45,962 acre-ft), 4.7 mi upstream. No known diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--43 years (water years 1940-82) 119 ft^3/s (5.25 in/yr), 86,220 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1940-82).--Maximum discharge, 53,300 ft^3/s Jun 16, 1981 (gage height, 31.35 ft), from rating curve extended above 25,900 ft^3/s on basis of slope-area measurement of 74,200 ft^3/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 Sep 27, 1936, was the highest since 1887 and reached a stage of 33 ft from floodmark; discharge 84,500 ft^3/s (by slope-area measurements at site 9 mi downstream) and 74,200 ft^3/s (adjusted to present site).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.0	1.8	1.9	1.1	2.8	2.9	4.6	1.5	174	.00	.02
2	1.3	.68	2.1	1.9	.98	3.1	3.8	2.3	1.9	172	.00	.02
3	1.7	1.1	2.9	1.7	1.1	3.5	7.8	1.6	669	168	.00	.03
4	1.8	1.8	3.3	1.3	1.0	2.8	3.3	1.7	7110	167	.00	.03
5	2.1	1.9	2.9	1.8	1.8	3.0	2.7	1.8	399	101	.00	.03
6	2.1	2.1	3.1	2.0	1.9	3.0	2.5	2.2	405	.08	.00	21
7	1.6	2.4	2.9	4.1	2.1	2.6	2.2	1.8	388	.04	.00	.33
8	2.0	2.4	3.5	7.6	1.9	1.9	1.4	1.7	380	.04	.00	.04
9	1.1	3.3	3.6	2.7	.73	.99	2.1	1.6	371	.03	.00	.04
10	1.7	4.0	2.9	2.4	1.5	2.7	2.1	1.6	372	.03	.00	.06
11	1.0	4.4	4.0	2.1	2.5	3.6	4.2	1.8	396	.03	.00	.03
12	.92	4.6	45	1.9	2.3	2.6	294	9.7	370	.03	.00	.43
13	1.1	3.8	9.1	1.7	2.5	2.5	19	16	436	.03	.00	.13
14	.99	3.8	2.8	1.8	2.3	2.5	7.4	2.4	503	.03	.00	.04
15	.91	4.1	1.8	2.5	2.4	2.7	4.0	1.6	492	.03	.00	.04
16	.74	4.2	1.9	2.6	2.5	3.7	2.9	1.7	487	.03	.00	.05
17	2.5	31	1.6	2.5	2.5	5.3	2.5	1.8	473	.02	.00	.07
18	1.9	2.7	1.9	2.4	2.3	2.2	2.3	2.2	684	.01	.00	.16
19	2.0	1.0	1.9	2.0	2.1	2.3	2.1	14	523	.00	.00	.39
20	1.8	1.0	1.8	1.6	1.7	2.5	1.5	44	503	.00	.00	1.5
21	1.6	1.2	2.0	1.4	1.4	15	1.5	7.4	486	.00	.00	1.5
22	1.5	1.3	1.8	1.6	2.0	12	1.7	2.5	479	.00	.02	.57
23	1.9	1.5	1.8	1.5	5.6	4.3	1.6	1.5	473	.00	.03	.89
24	2.4	1.4	1.8	1.4	3.9	3.9	1.2	1.5	471	.00	.03	2.2
25	2.5	1.7	1.5	1.5	3.6	2.5	1.4	1.4	468	.00	.02	4.4
26	2.9	1.2	1.9	1.8	3.7	2.6	1.7	1.3	466	.00	.02	2.6
27	3.6	1.1	1.8	3.2	2.7	2.1	1.4	1.8	463	.00	.02	1.8
28	4.1	1.6	1.6	2.3	2.7	2.4	1.4	2.1	464	.00	.02	1.6
29	5.2	1.7	1.7	1.6	3.2	2.4	1.4	1.9	400	.00	.02	1.3
30	15	1.4	1.6	1.6	---	2.8	1.4	1.6	254	.00	.02	.82
31	2.2	---	1.4	1.5	---	2.3	---	1.3	---	.00	.02	---
TOTAL	73.46	95.38	119.7	67.9	66.01	108.59	385.4	140.4	19388.4	782.43	0.22	42.12
MEAN	2.37	3.18	3.86	2.19	2.28	3.50	12.8	4.53	646	25.2	.007	1.40
MAX	15	31	45	7.6	5.6	15	294	44	7110	174	.03	21
MIN	.74	.68	1.4	1.3	.73	.99	1.2	1.3	1.5	.00	.00	.02
AC-FT	146	189	237	135	131	215	764	278	38460	1550	.4	84

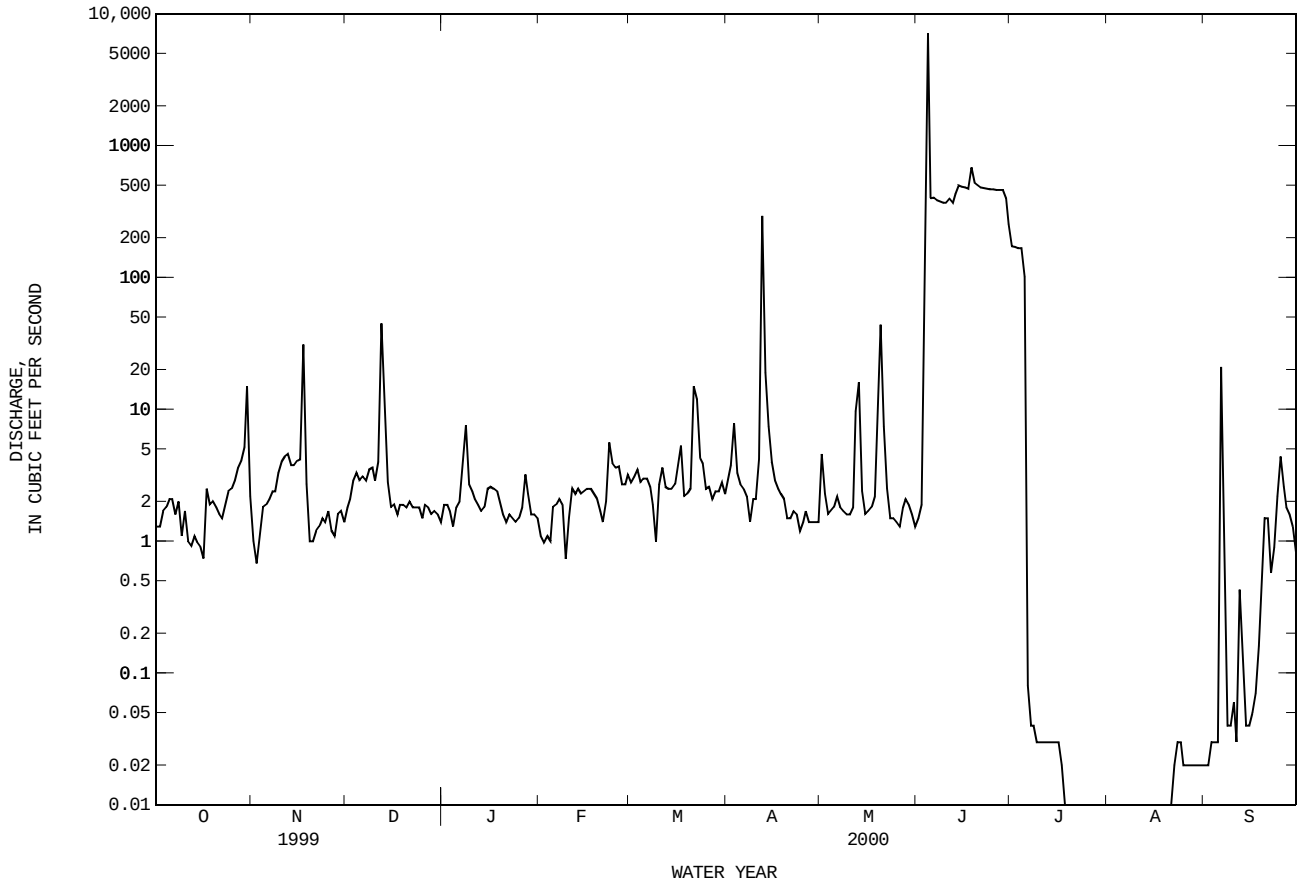
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000z, BY WATER YEAR (WY)

MEAN	39.5	68.7	186	169	171	235	119	196	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000z	
ANNUAL TOTAL	7737.35		21270.01			
ANNUAL MEAN	21.2		58.1		119	
HIGHEST ANNUAL MEAN					396	1992
LOWEST ANNUAL MEAN					2.24	1984
HIGHEST DAILY MEAN	427	Jan 30	7110	Jun 4	7110	Jun 4 2000
LOWEST DAILY MEAN	.04	Jun 8	.00	Jul 19	.00	Oct 1 1982
ANNUAL SEVEN-DAY MINIMUM	.05	Jun 5	.00	Jul 19	.00	Oct 1 1982
INSTANTANEOUS PEAK FLOW			22800	Jun 4	22800	Jun 4 2000
INSTANTANEOUS PEAK STAGE			29.08	Jun 4	29.08	Jun 4 2000
ANNUAL RUNOFF (AC-FT)	15350		42190		86460	
10 PERCENT EXCEEDS	48		35		380	
50 PERCENT EXCEEDS	2.9		1.8		5.0	
90 PERCENT EXCEEDS	.91		.02		.00	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Jan 1962 to Sep 1998 (daily mean discharge). Oct 1998 to current year (peaks above base discharge).
Water-quality records.--Chemical data: Sep 1991 to Mar 1994. Biochemical data: Sep 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 good. 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 with a combined detention capacity of 65,720 acre-ft. These structures control runoff from 202 mi^2 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--36 YEARS (water years 1963-98), 68.6 ft^3/s (49,710 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft^3/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 ft^3/s, by contracted-opening measurement).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 15	0630	5,800	18.88	No other peak greater than base discharge.			

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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 mi^2.

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 Sep 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 fair. Since water year 1968, at least 10% of contributing drainage area has been regulated by 40 floodwater-retarding structures with a combined detention capacity of 65,720 acre-ft. These structures control runoff from 202 mi^2 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--44 years (water years 1924-67), 195 ft^3/s (141,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-67).--Maximum discharge, 92,800 ft^3/s Oct 4, 1959 (gage height, 34.88 ft), from rating curve extended above 34,000 ft^3/s on basis of contracted-opening measurement of 92,800 ft^3/s; and step-back water computation of 200,000 ft^3/s; no flow at times. Maximum stage since at least 1854, that of Dec 20, 1991.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	1.4	4.2	2.1	4.2	1.5	3.4	5.3	.00	7.9	.25	.11
2	.47	.80	4.0	2.6	4.9	1.8	3.6	6.4	.00	7.9	.27	.11
3	.58	.87	4.5	2.2	4.7	2.3	3.9	4.9	.48	8.3	.26	.11
4	.48	1.0	4.3	1.5	4.9	2.2	3.8	5.2	2690	6.7	.23	.10
5	.96	1.4	4.5	1.1	4.3	1.8	3.9	5.6	1010	5.2	.22	.09
6	1.0	1.6	3.8	1.7	4.0	1.4	3.3	5.0	121	4.4	.22	.08
7	.64	1.8	3.6	2.2	3.7	1.9	3.4	4.6	56	4.6	.21	.09
8	.60	1.9	4.2	4.0	3.6	1.8	2.7	3.7	33	5.0	.21	.08
9	.78	e2.2	5.2	3.4	4.2	2.2	3.1	3.2	34	4.5	.23	.09
10	.63	2.4	4.1	3.2	4.1	2.6	3.2	2.8	137	4.0	.21	.09
11	.79	2.7	4.7	2.8	3.1	2.2	3.5	2.8	172	3.6	.17	.09
12	.96	4.0	7.2	2.6	2.5	2.0	6.3	1.3	56	3.3	.17	.08
13	.89	5.0	4.9	2.3	3.4	2.0	7.9	.91	47	2.6	.17	.09
14	1.2	5.0	4.5	2.9	2.7	1.6	6.1	.91	39	2.2	.16	.09
15	.93	4.8	3.4	3.5	2.0	2.1	5.5	.81	6970	2.0	.17	.09
16	.82	4.8	2.9	3.7	2.3	2.9	6.2	.63	903	1.8	.19	.07
17	.45	5.0	2.7	3.6	2.2	3.2	6.8	.35	320	1.7	.15	.06
18	.30	4.5	2.6	3.1	1.4	3.4	5.9	.20	213	1.6	.13	.06
19	.79	4.4	2.5	3.5	.92	2.2	5.5	.10	280	1.3	.13	.06
20	.76	4.1	2.1	3.8	1.6	2.1	5.1	.88	135	1.0	.13	.06
21	.78	4.7	2.0	3.5	1.4	2.2	4.9	1.2	85	.94	.17	.06
22	.41	5.1	2.4	3.9	.81	2.3	4.5	.95	60	.76	.17	.07
23	.37	5.4	2.5	3.9	1.7	2.3	4.4	.31	43	.56	.17	.07
24	.65	5.1	2.7	3.3	2.4	2.5	4.9	.18	30	.49	.14	.06
25	.91	4.5	2.6	3.2	2.4	2.5	4.2	.07	24	.41	.12	.04
26	.97	4.2	2.7	3.2	2.1	2.7	3.7	.01	23	.37	.12	.05
27	.86	3.9	2.9	3.8	1.6	2.5	3.2	.06	19	.36	.12	.05
28	1.0	4.0	2.3	3.8	.94	2.7	2.8	.09	17	.32	.12	.04
29	.94	4.8	1.8	3.7	1.4	2.4	2.8	.14	15	.26	.13	.04
30	2.3	4.8	2.5	3.8	---	2.7	2.9	.10	13	.24	.11	.04
31	2.5	---	2.3	3.5	---	2.8	---	.01	---	.24	.11	---
TOTAL	26.18	106.17	106.6	95.4	79.47	70.8	131.4	58.71	13545.48	84.55	5.36	2.22
MEAN	.84	3.54	3.44	3.08	2.74	2.28	4.38	1.89	452	2.73	.17	.074
MAX	2.5	5.4	7.2	4.0	4.9	3.4	7.9	6.4	6970	8.3	.27	.11
MIN	.30	.80	1.8	1.1	.81	1.4	2.7	.01	.00	.24	.11	.04
AC-FT	52	211	211	189	158	140	261	116	26870	168	11	4.4

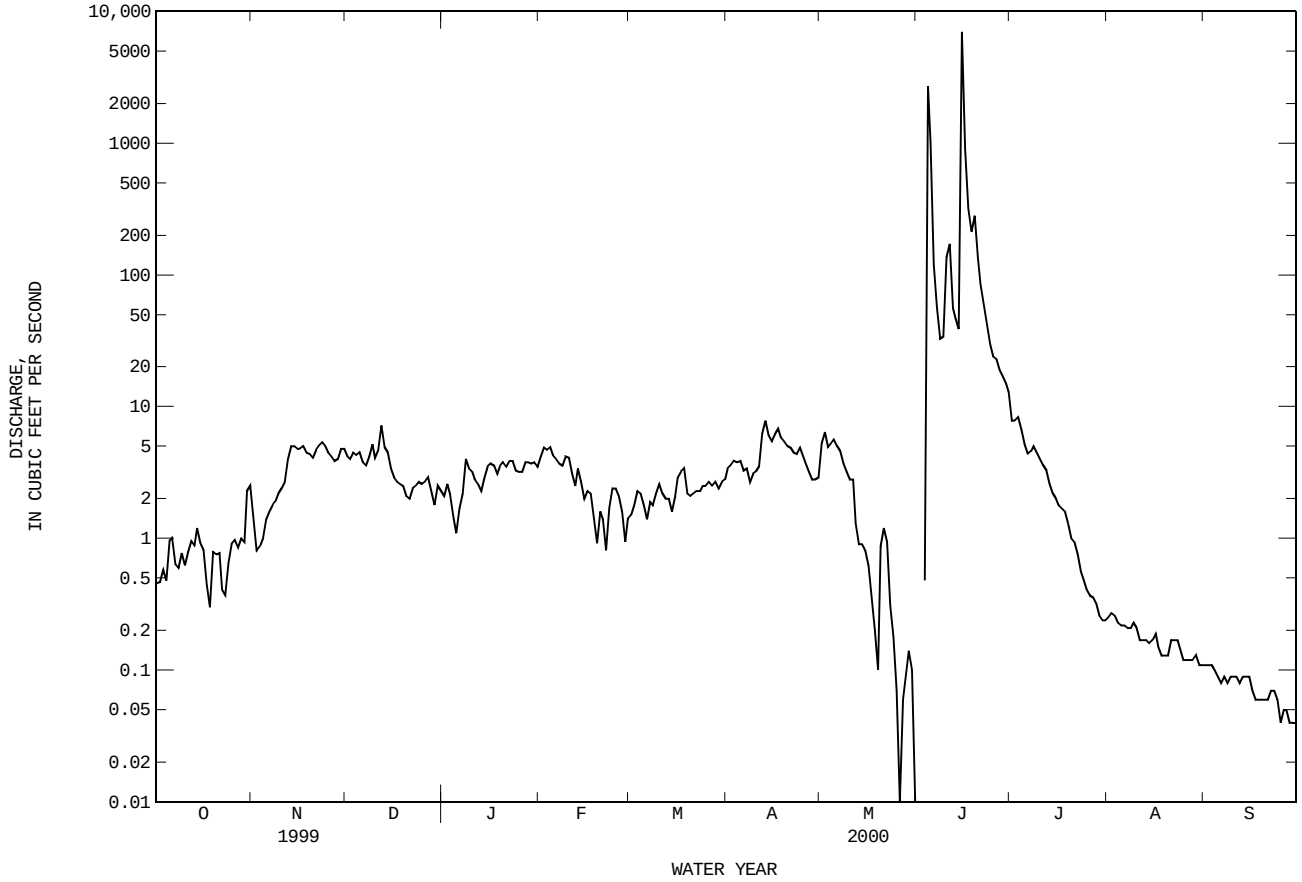
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000z, BY WATER YEAR (WY)

MEAN	116	64.7	315	153	351	391	372	526	342	71.5	83.0	61.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000z	
ANNUAL TOTAL	7631.73		14312.34			
ANNUAL MEAN	20.9		39.1		237	
HIGHEST ANNUAL MEAN					1366	1992
LOWEST ANNUAL MEAN					11.7	1984
HIGHEST DAILY MEAN	568	Apr 3	6970	Jun 15	96800	Dec 21 1991
LOWEST DAILY MEAN	.30	Oct 18	.00	Jun 1	.00	Jun 1 2000
ANNUAL SEVEN-DAY MINIMUM	.47	Sep 14	.05	Sep 24	.03	Oct 28 1983
INSTANTANEOUS PEAK FLOW			24800	Jun 15	200000	Dec 20 1991
INSTANTANEOUS PEAK STAGE			20.75	Jun 15	38.30	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	15140		28390		171500	
10 PERCENT EXCEEDS	39		6.2		366	
50 PERCENT EXCEEDS	13		2.3		28	
90 PERCENT EXCEEDS	.86		.11		2.7	

e Estimated
z Period of regulated streamflow.



08095200 NORTH BOSQUE RIVER AT VALLEY MILLS, TX

LOCATION.--Lat 31°40′10", long 97°28′09", Bosque County, Hydrologic Unit 12060204, on right bank at downstream side of bridge on Farm Road 56, about 0.8 mi downstream from Thompson Hollow, 0.8 mi north of intersection of State Highway 6 and Farm Road 56 in Valley Mills, and 28.0 mi upstream from mouth.

DRAINAGE AREA.--1,146 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug 1959 to current year.
Water-quality records.--Chemical data: Oct 1980 to Sep 1982. Biochemical data: Oct 1980 to Sep 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 524.55 ft above sea level. Prior to Dec 29, 1959, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good except those for Jul 5 to Aug 16, which are poor. Since water year 1968, at least 10% of contributing drainage area has been regulated by upstream reservoirs. Flow is affected at times by discharge from the flood-detention pools of 42 floodwater-retarding structures with a combined detention capacity of 66,800 acre-ft. These structures control runoff from 207 mi^2. There are several small diversions above station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--8 years (water years 1960-67), 263 ft^3/s (190,500 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1960-67).--Maximum discharge, 107,000 ft^3/s Oct 4, 1959 (gage height, 40.22 ft, from floodmarks), from rating curve extended above 28,200 ft^3/s on basis of slope-area measurement of 107,000 ft^3/s; no flow Oct 5-12, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1868. Flood in May 1908, reached a stage of 43 ft, floods in Sep 1936, and Apr 1945, reached a stage of about 38 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	8.7	3.8	6.4	7.5	6.4	7.9	13	3.4	12	.52	.06
2	3.6	6.1	3.9	6.9	7.2	6.6	12	20	3.3	7.7	.46	.07
3	3.7	4.7	4.0	6.8	7.4	7.9	10	14	9.7	7.0	.38	.07
4	3.7	4.6	3.7	6.8	7.0	8.0	8.2	11	2550	7.0	.38	.06
5	3.7	4.8	3.6	6.4	6.6	7.6	7.4	12	1500	5.9	.31	.05
6	3.6	4.7	3.5	6.1	6.8	7.6	7.2	9.9	165	5.4	.30	.00
7	3.7	4.7	3.7	7.5	6.6	7.5	7.1	7.9	55	4.9	.23	.01
8	4.0	4.4	3.9	18	6.2	6.9	6.2	6.8	33	4.8	.18	.01
9	3.9	4.7	3.8	13	5.8	7.3	5.8	6.2	26	5.2	.15	.02
10	3.7	4.5	4.3	9.6	6.0	7.0	5.6	6.3	33	5.2	.13	.02
11	3.7	3.3	5.5	9.1	6.3	12	6.5	5.7	340	5.0	.08	.01
12	3.6	3.2	20	8.9	5.9	8.8	24	5.8	61	4.9	.05	.01
13	3.6	3.1	16	8.1	5.7	8.0	15	5.7	47	4.7	.01	.02
14	3.6	3.4	11	7.1	5.6	8.3	16	5.1	33	4.0	.00	.02
15	3.6	3.4	9.5	6.6	5.8	8.1	12	4.3	6000	3.4	.00	.01
16	3.7	3.3	8.9	7.2	5.6	7.3	9.7	4.1	1890	2.6	.20	.01
17	3.8	3.5	8.5	7.3	5.9	24	10	3.9	584	2.2	.23	.01
18	4.2	3.8	8.0	7.1	6.1	13	12	4.0	374	2.0	.18	.01
19	5.0	3.8	7.6	7.1	5.6	11	11	6.7	446	1.9	.21	.02
20	4.0	3.6	7.4	6.3	5.1	8.5	9.3	8.5	229	1.7	.23	.02
21	4.2	3.3	7.6	6.3	5.0	8.5	8.6	7.7	132	1.6	.18	.02
22	4.1	3.6	7.1	6.7	6.1	9.0	8.6	6.2	83	1.3	.18	.02
23	4.1	4.6	6.7	6.5	9.6	9.2	8.0	5.0	58	1.2	.18	.02
24	3.6	6.4	7.1	6.4	8.1	9.3	6.7	4.2	42	1.1	.15	.01
25	3.6	6.5	6.9	6.4	7.7	8.9	6.4	3.9	31	.99	.17	.02
26	3.6	5.6	7.1	6.0	10	8.8	6.4	3.7	25	.92	.18	.02
27	3.6	4.4	6.8	7.3	8.9	8.2	6.3	4.8	23	.86	.15	.02
28	3.8	4.2	6.7	8.5	7.3	7.8	6.0	6.3	20	.71	.15	.02
29	3.9	3.7	6.6	7.9	7.2	8.2	5.6	4.5	17	.69	.15	.02
30	8.4	3.6	6.3	7.0	---	7.1	5.6	4.0	14	.61	.14	.02
31	12	---	5.9	6.8	---	6.6	---	3.6	---	.60	.07	---
TOTAL	130.8	132.2	215.4	238.1	194.6	273.4	271.1	214.8	14827.4	108.08	5.93	0.70
MEAN	4.22	4.41	6.95	7.68	6.71	8.82	9.04	6.93	494	3.49	.19	.023
MAX	12	8.7	20	18	10	24	24	20	6000	12	.52	.07
MIN	3.5	3.1	3.5	6.0	5.0	6.4	5.6	3.6	3.3	.60	.00	.00
AC-FT	259	262	427	472	386	542	538	426	29410	214	12	1.4

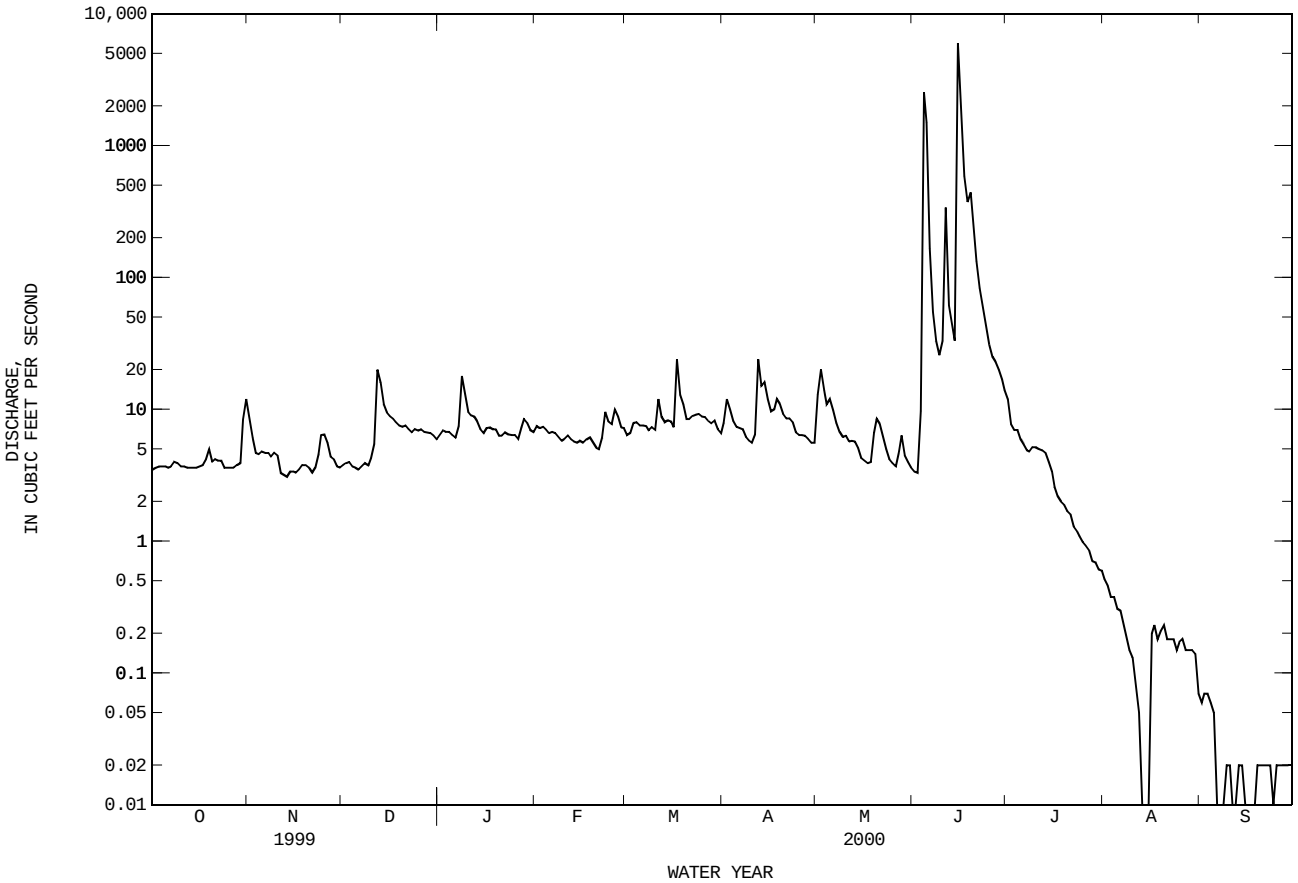
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000z, BY WATER YEAR (WY)

MEAN	136	85.6	344	191	463	493	446	653	435	91.9	107	78.9
MAX	1349	549	7469	1760	5156	2865	2392	2776	1609	712	1625	544
(WY)	1972	1992	1992	1992	1992	1998	1977	1968	1989	1968	1995	1996
MIN	1.35	2.69	4.10	6.78	6.71	8.82	6.02	2.94	.63	.11	.19	.000
(WY)	1979	1984	1979	1984	2000	2000	1984	1984	1984	1984	2000	1984

08095200 NORTH BOSQUE RIVER AT VALLEY MILLS, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000z	
ANNUAL TOTAL	12627.1		16612.51			
ANNUAL MEAN	34.6		45.4		293	
HIGHEST ANNUAL MEAN					1664	1992
LOWEST ANNUAL MEAN					14.6	1984
HIGHEST DAILY MEAN	561	Apr 3	6000	Jun 15	123000	Dec 21 1991
LOWEST DAILY MEAN	3.1	Nov 13	.00	Aug 14	.00	Jun 1 1984
ANNUAL SEVEN-DAY MINIMUM	3.3	Nov 11	.01	Sep 6	.00	Jun 17 1984
INSTANTANEOUS PEAK FLOW			21300	Jun 15	220000	Dec 21 1991
INSTANTANEOUS PEAK STAGE			27.08	Jun 15	44.60	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	25050		32950		212100	
10 PERCENT EXCEEDS	69		13		481	
50 PERCENT EXCEEDS	21		5.9		41	
90 PERCENT EXCEEDS	3.7		.11		6.1	

z Period of regulated streamflow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Mar 1960 to Aug 1987, Jan 1999 to current year.
BIOCHEMICAL DATA: Sep 1970 to Aug 1987, Jan 1999 to current year.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB											
04...	0900	7.0	532	7.6	9.5	1.9	10.5	92	1.3	210	0
APR											
25...	1300	6.3	469	8.0	25.0	.50	9.6	118	1.1	150	--
JUL											
05...	1025	6.0	416	7.8	29.1	2.4	6.3	83	2.5	170	5
25...	0840	.96	451	7.5	28.0	1.4	7.3	95	2.0	170	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
FEB											
04...	73	6.5	32	1	2.1	--	210	34	19	.23	6.8
APR											
25...	52	5.9	38	1	2.3	--	180	28	22	.23	6.0
JUL											
05...	57	6.2	17	.6	4.4	162	--	21	15	.21	11
25...	58	6.2	22	.7	3.9	184	--	22	16	.23	15

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, 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)
FEB										
04...	310	301	9	<.010	.656	<.020	--	.24	<.050	<.010
APR										
25...	270	259	1	<.010	.068	<.020	--	.26	<.050	<.010
JUL										
05...	250	228	<10	<.010	.068	<.020	--	.29	<.050	<.010
25...	268	255	<10	<.010	<.050	.023	1.3	1.3	<.050	<.010

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
FEB										
04...	2.2	9.8	<1.0	E1	64	<1.0	<1.0	<1.0	<1.0	<1.0
APR										
25...	3.0	4.0	<1.0	E2	51	<1.0	<1.0	E.68	<1.0	1.1
JUL										
05...	6.3	--	--	--	--	--	--	--	--	--
25...	3.2	<1.0	<1.0	4	52	<1.0	<1.0	<.80	<1.0	<1.0

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB										
04...	E6.4	<1.0	13	<.2	1.2	2.0	<2	<1.0	5.4	1.5
APR										
25...	E9.3	--	7.4	<.2	1.7	<1.0	<2	<1.0	1.5	1.0
JUL										
05...	<10	--	22	--	--	--	--	--	--	--
25...	14	<1.0	17	<.2	2.1	<1.0	--	<1.0	2.0	<1.0

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08095300 MIDDLE BOSQUE RIVER NEAR MCGREGOR, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 31°30′34", long 97°21′55", 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Aug 1959 to Sep 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 fair. No known regulation or diversions. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE.--26 years (water years 1960-1985), 78.4 ft^3/s (56,800 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,300 ft^3/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 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge.							

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB											
03...	1020	.01	350	7.9	8.5	7.2	10.8	93	1.6	140	34
APR											
25...	1030	14	413	8.0	20.5	2.9	8.2	93	1.0	180	37
JUL											
05...	1335	16	347	8.2	30.6	.5	11.4	154	1.9	150	6
24...	1215	1.5	270	7.6	29.1	1.6	6.1	80	1.4	100	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
FEB											
03...	52.7	3.11	15.0	.5	3.8	--	110	29.6	14.4	.2	2.5
APR											
25...	69.3	2.55	11.1	.4	1.5	--	150	22.9	9.1	.3	3.8
JUL											
05...	56.7	2.24	9.2	.3	1.4	145	--	16.2	8.5	.3	8.8
24...	36.7	2.10	12.1	.5	1.1	100	--	19.0	9.2	.3	13.5

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, 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)
FEB											
03...	212	187	17	--	<.010	<.050	<.020	--	.47	<.050	<.010
APR											
25...	244	230	1	4.65	.075	4.72	.025	.24	.27	<.050	<.010
JUL											
05...	211	199	<10	1.98	.035	2.02	.024	.26	.29	<.050	<.010
24...	167	158	<10	.934	.036	.970	.071	.31	.38	<.050	<.010

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
FEB										
03...	5.8	12	<1	E1.6	54	<1	<1.0	<1.0	<1	<1
APR										
25...	33	2	<1	E1.1	49	<1	<1.0	<.8	<1	<1
JUL										
05...	4.0	--	--	--	--	--	--	--	--	--
24...	3.6	6	<1	3.2	37	<1	<1.0	<.8	<1	<1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB										
03...	E10	<1	10	<.2	<1	2	<2.4	<1	4	<1
APR										
25...	<10	<1	7	<.2	<1	<1	<2.4	<1	3	<1
JUL										
05...	E10	--	8	--	--	--	--	--	--	--
24...	E10	<1	13	<.2	<1	<1	<2.4	<1	2	<1

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 mi^2.

PERIOD OF RECORD.--Aug 1959 to Sep 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 good. Since water year 1980, at least 10% of the contributing drainage area has been regulated by two floodwater-retarding structures with a detention capacity of 9,600 acre-ft. These structures control runoff from 42.0 mi^2 in the Hog Creek drainage basin.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1960-1979), 37.7 ft^3/s (27,310 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1959-1979).--Maximum discharge, 15,400 ft^3/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 Sep 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 ft^3/s:

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

No peak greater than base discharge.

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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 mi^2.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--Feb 1965 to current year. Prior to Oct 1970, published as "Waco Reservoir".
Water-quality records.--Chemical data: Oct 1969 to Sep 1982

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Satellite telemeter at station.

REMARKS.--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 values. 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 mi^2 in the Bosque River and Hog Creek drainage basins. An unknown amount of water was diverted for municipal and industrial uses. Conservation pool storage is 144,546 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.--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, 153,700 acre-ft, Jun 29, 30, Jul 1, elevation, 456.27 ft; minimum contents, 104,800 acre-ft, Feb 22, elevation, 448.95 ft.

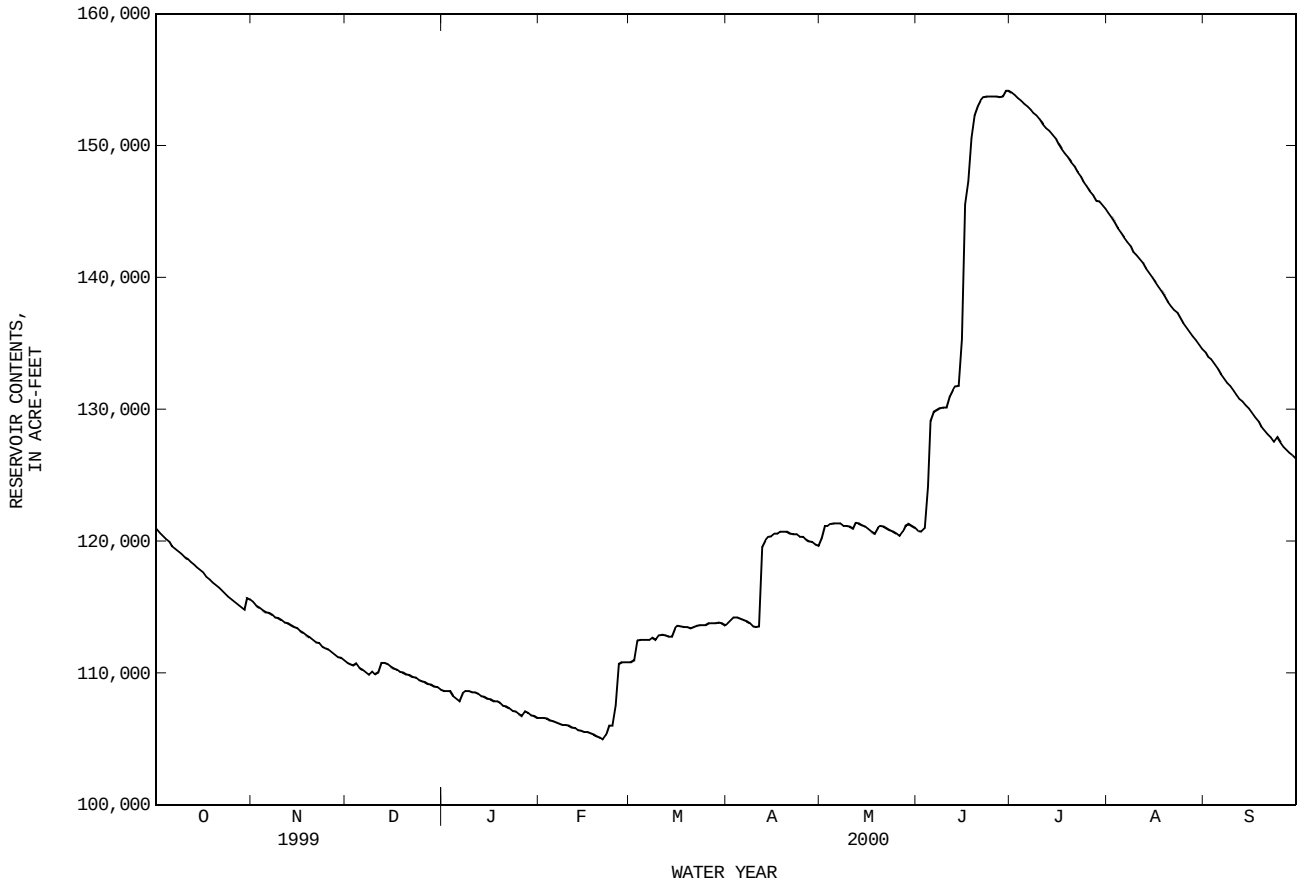
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120900	115400	110800	108600	106600	110800	113700	120300	120800	154100	144900	134300
2	120600	115100	110700	108600	106600	111000	114000	121200	120700	153800	144600	134000
3	120400	114900	110600	108600	106500	112500	114200	121200	121000	153600	144200	133800
4	120100	114700	110700	108200	106400	112500	114200	121300	124100	153400	143800	133500
5	119900	114600	110400	108100	106400	112500	114100	121400	129100	153200	143400	133100
6	119600	114500	110200	107900	106200	112500	114000	121400	129800	153000	143000	132700
7	119400	114400	110000	108400	106200	112500	113900	121400	130000	152700	142700	132400
8	119200	114200	109800	108600	106100	112700	113800	121200	130100	152500	142400	132000
9	119000	114200	110100	108600	106100	112500	113500	121200	130200	152300	142000	131700
10	118800	114000	109900	108600	106000	112800	113500	121100	130200	152000	141700	131400
11	118600	113900	110000	108600	105900	112900	113500	121000	131000	151600	141400	131100
12	118400	113800	110800	108400	105800	112800	119500	121400	131500	151300	141100	130800
13	118200	113700	110800	108200	105700	112800	120100	121400	131700	151100	140700	130600
14	118000	113500	110700	108200	105600	112800	120300	121200	131800	150800	140300	130300
15	117800	113400	110500	108100	105500	113400	120400	121100	135300	150500	140000	130000
16	117600	113200	110300	108000	105500	113600	120600	120900	145600	150200	139600	129700
17	117300	113000	110200	107900	105400	113500	120600	120700	147300	149800	139400	129400
18	117100	112800	110100	107900	105300	113500	120700	120600	150600	149400	139000	129100
19	116800	112700	110000	107800	105200	113500	120700	121000	152400	149100	138600	128700
20	116600	112500	109900	107500	105100	113400	120700	121200	153000	148800	138200	128400
21	116500	112300	109800	107500	105000	113500	120600	121100	153400	148500	137800	128100
22	116300	112300	109700	107300	105300	113600	120500	121000	153700	148000	137500	127900
23	116000	112000	109700	107100	106000	113700	120500	120800	153800	147700	137300	127500
24	115800	111900	109500	107100	106000	113700	120300	120700	153800	147300	136900	127900
25	115600	111800	109400	106900	107500	113700	120300	120600	153800	146900	136600	127500
26	115400	111600	109300	106700	110700	113800	120100	120400	153800	146600	136200	127100
27	115200	111400	109200	107100	110800	113800	120000	120700	153700	146300	135900	126900
28	115000	111200	109100	107000	110800	113800	119900	121200	153800	145900	135500	126700
29	114800	111200	109000	106800	110800	113900	119700	121300	154200	145800	135200	126500
30	115700	111000	108900	106700	---	113800	119700	121200	154200	145500	134900	126300
31	115600	---	108700	106600	---	113700	---	121000	---	145200	134600	---
MAX	120900	115400	110800	108600	110800	113900	120700	121400	154200	154100	144900	134300
MIN	114800	111000	108700	106600	105000	110800	113500	120300	120700	145200	134600	126300
(+)	450.71	449.95	449.59	449.25	449.92	450.40	451.36	451.56	456.35	455.06	453.56	452.36
(@)	-5600	-4600	-2300	-2100	+4200	+2900	+6000	+1300	+33200	-9000	-10600	-8300

CAL YR 1999 MAX 152100 MIN 108700 (@) -39900
WTR YR 2000 MAX 154200 MIN 105000 (@) +5100

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

08095550 WACO LAKE NEAR WACO, TX--Continued



PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1969 to Sep 1982, Feb 1998 to current year.
BIOCHEMICAL DATA: Oct 1969 to Sep 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 1999 TO SEPTEMBER 2000

313430097113801 - Waco Lk Site AC

DATE	TIME	RESER-VOIR STORAGE (AC-FT) (00054)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB											
03...	0950	107000	1.00	327	8.1	9.0	9.5	82	K14	K14	130
03...	0952	--	10.0	327	8.1	8.5	9.5	81	--	--	--
03...	0954	--	20.0	327	8.1	8.5	9.5	81	--	--	--
03...	0956	--	30.0	327	8.1	8.5	9.5	81	--	--	--
03...	0958	--	40.0	327	8.1	8.5	9.4	81	--	--	--
03...	1000	--	50.0	327	8.1	8.5	9.4	81	--	--	--
03...	1002	--	60.0	328	8.1	8.5	9.2	79	--	--	--
03...	1004	--	65.0	328	8.0	8.5	9.4	81	--	--	130
APR											
24...	1112	120000	1.00	347	8.2	21.0	8.3	94	<2	<2	130
24...	1114	--	10.0	347	8.1	21.0	8.3	94	--	--	--
24...	1116	--	20.0	347	8.1	20.5	8.1	91	--	--	--
24...	1118	--	30.0	347	8.1	20.5	8.0	90	--	--	--
24...	1120	--	40.0	347	8.1	20.5	7.8	88	--	--	--
24...	1122	--	50.0	349	7.8	20.0	7.2	80	--	--	--
24...	1124	--	60.0	352	7.7	19.0	6.2	68	--	--	--
24...	1126	--	66.0	356	7.4	18.0	5.0	54	--	--	130
JUL											
24...	1154	147000	1.00	295	8.3	29.5	6.3	83	<2	<2	110
JUL											
24-24	1154	--	--	--	--	--	--	--	--	--	--
24...	1156	--	10.0	301	7.8	29.0	4.5	59	--	--	--
24...	1158	--	20.0	300	7.8	29.0	4.3	57	--	--	--
24...	1200	--	33.0	300	7.8	29.0	4.1	54	--	--	--
24...	1202	--	40.0	304	7.6	29.0	2.6	34	--	--	--
24...	1204	--	50.0	311	7.4	28.5	1.0	13	--	--	--
24...	1206	--	60.0	313	7.4	28.5	.5	7	--	--	--
24...	1208	--	67.0	314	7.4	28.5	.2	3	--	--	110

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 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
FEB											
03...	14	42	5.4	18	.7	23	3.0	--	110	29	17
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
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03...	--	--	--	--	--	--	--	--	--	--	--
03...	24	42	5.5	18	.7	23	2.9	--	100	33	19
APR											
24...	14	44	4.9	18	.7	22	3.2	116	--	31	16
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--	--
24...	16	46	5.1	18	.7	22	3.0	119	--	30	17
JUL											
24...	13	35	4.5	15	.6	23	3.4	93	--	25	14
JUL											
24-24	--	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--	--
24...	9	38	4.6	15	.6	22	3.2	106	--	23	14

08095550 WACO LAKE NEAR WACO, TX--Continued

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

313430097113801 - Waco Lk Site AC

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, 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)
FEB											
03...	.28	9.0	192	--	<.010	.087	.103	.28	.38	<.050	.050
03...	--	--	--	--	--	--	--	--	--	--	--
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03...	.24	5.0	189	--	<.010	.082	.105	.29	.39	<.050	.038
APR											
24...	.24	8.4	197	--	<.010	.470	<.020	--	.28	<.050	<.010
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.516	.016	.532	.024	.27	.29	<.050	.012
24...	--	--	--	--	--	--	--	--	--	--	--
24...	.31	10	203	.557	.015	.572	.087	.28	.37	E.031	.021
JUL											
24...	.21	9.1	162	--	<.010	<.050	<.020	--	.25	<.050	<.010
JUL											
24-24	--	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.041	.010	.051	.050	.25	.30	<.050	<.010
24...	--	--	--	.065	.016	.081	.061	.28	.34	<.050	.013
24...	--	--	--	--	--	--	--	--	--	--	--
24...	.22	11	174	.038	.022	.060	.096	.29	.39	<.050	<.010

313430097113801 - Waco Lk Site AC

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
FEB											
03...	.15	--	--	<10	26	--	--	--	--	--	--
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03...	.12	--	--	<10	13	--	--	--	--	--	--
APR											
24...	--	--	--	<10	E1.4	--	--	--	--	--	--
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24...	.04	--	--	<10	24	--	--	--	--	--	--
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24...	.06	--	--	<10	88	--	--	--	--	--	--
JUL											
24...	--	12.9	.950	<10	<2.2	--	--	--	--	--	--
JUL											
24-24	--	--	--	--	--	<.0030	.0072	.062	<.0020	.578	<.0010
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24...	--	--	--	<10	46	--	--	--	--	--	--
24...	.04	--	--	<10	61	--	--	--	--	--	--
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24...	--	--	--	<10	236	--	--	--	--	--	--

313430097113801 - Waco Lk Site AC

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
FEB											
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APR											
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JUL											
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JUL											
24-24	<.0020	<.0020	<.0030	<.0030	<.0040	<.0050	<.0040	<.0020	E.0754	.008	<.001
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313430097113801 - Waco Lk Site AC

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
FEB										
03...	--	--	--	--	--	--	--	--	--	--
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APR										
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24...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
24-24	<.0170	<.0020	<.0040	<.0030	<.0030	<.004	<.0020	<.005	.103	<.004
24...	--	--	--	--	--	--	--	--	--	--
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08095550 WACO LAKE NEAR WACO, TX--Continued

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

313430097113801 - Waco Lk Site AC

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)
FEB										
03...	--	--	--	--	--	--	--	--	--	--
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APR										
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JUL										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
24-24	<.0040	<.0030	<.0060	<.004	<.0060	<.0040	<.0040	<.0020	<.0180	<.0070
24...	--	--	--	--	--	--	--	--	--	--
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313430097113801 - Waco Lk Site AC

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
FEB										
03...	--	--	--	--	--	--	--	--	--	--
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03...	--	--	--	--	--	--	--	--	--	--
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03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
APR										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
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24...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
24-24	<.0040	<.0130	<.0030	.0298	<.0100	<.0070	<.0130	<.0020	<.0010	<.0020
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--

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

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 (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
03...	1025	1.00	328	8.1	9.0	9.4	82
03...	1027	10.0	327	8.1	9.0	9.4	82
03...	1029	20.0	327	8.1	9.0	9.3	81
03...	1031	30.0	327	8.1	9.0	9.3	81
APR							
24...	1055	1.00	348	8.1	20.5	8.1	91
24...	1057	10.0	348	8.1	20.5	8.0	90
24...	1059	20.0	347	8.1	20.5	7.8	88
24...	1101	29.0	349	8.0	20.5	7.4	83
JUL							
24...	1232	1.00	299	8.0	29.5	5.2	69
24...	1234	10.0	298	8.0	29.0	5.4	71
24...	1236	20.0	299	7.9	29.0	4.6	60
24...	1238	33.0	298	7.8	29.0	4.3	56

313338097130301 - Waco Lk Site BC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
FEB							
03...	1100	1.00	327	8.2	9.0	9.9	86
03...	1102	10.0	326	8.2	9.0	9.9	86
03...	1104	20.0	326	8.2	8.5	9.7	83
03...	1106	27.0	327	8.2	8.5	9.6	82
APR							
24...	1158	1.00	348	8.1	20.5	7.9	89
24...	1200	10.0	348	8.1	20.5	7.9	89
24...	1202	20.0	348	8.1	20.5	7.5	84
24...	1204	28.0	349	8.0	20.5	7.0	79
JUL							
24...	1410	1.00	289	8.5	30.5	7.4	100
24...	1412	10.0	290	8.3	29.5	6.5	86
24...	1414	20.0	300	7.9	29.0	4.7	62
24...	1416	29.0	313	7.4	29.0	.4	5

313148097140601 - Waco Lk Site CC

DATE	TIME	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB										
03...	1120	1.00	329	8.3	8.5	10.3	88	K5	K2	130
03...	1122	10.0	329	8.3	8.5	10.2	87	--	--	--
03...	1124	16.0	331	8.2	8.0	9.9	84	--	--	130
APR										
24...	1214	1.00	358	8.1	21.5	7.7	88	K150	K28	140
24...	1216	10.0	359	8.0	21.0	7.4	84	--	--	--
24...	1218	19.0	357	8.0	21.0	7.0	80	--	--	130
JUL										
24...	1426	1.00	295	8.4	30.5	6.9	93	<2	<2	100
24...	1428	10.0	294	8.2	30.0	6.1	82	--	--	--
24...	1430	22.0	299	8.1	29.5	5.5	73	--	--	110

08095550 WACO LAKE NEAR WACO, TX--Continued

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

313148097140601 - Waco Lk Site CC

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)
FEB									
03...	24	42	5.4	19	.7	23	2.9	--	100
03...	--	--	--	--	--	--	--	--	--
03...	31	43	5.4	19	.7	23	3.0	--	98
APR									
24...	19	47	4.7	18	.7	21	3.3	118	--
24...	--	--	--	--	--	--	--	--	--
24...	15	46	4.7	17	.7	22	3.3	118	--
JUL									
24...	6	34	4.5	17	.7	25	3.4	98	--
24...	--	--	--	--	--	--	--	--	--
24...	7	35	4.5	16	.7	24	3.4	100	--

313148097140601 - Waco Lk Site CC

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
FEB									
03...	30	17	.28	8.6	188	--	<.010	.093	.041
03...	--	--	--	--	--	--	--	--	--
03...	30	18	.28	8.6	186	--	<.010	.109	.063
APR									
24...	31	16	.24	8.3	203	.706	.010	.716	<.020
24...	--	--	--	--	--	--	--	--	--
24...	31	16	.23	8.3	200	--	<.010	.627	.029
JUL									
24...	25	14	.20	9.3	166	--	<.010	<.050	<.020
24...	--	--	--	--	--	--	--	--	--
24...	25	14	.38	9.5	168	--	<.010	<.050	<.020

313148097140601 - Waco Lk Site CC

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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB									
03...	.24	.28	<.050	.098	.30	--	--	<10	E1.4
03...	--	--	--	--	--	--	--	--	--
03...	.22	.28	<.050	.087	.27	--	--	<10	3.8
APR									
24...	--	.31	<.050	<.010	--	--	--	<10	<2.2
24...	--	--	--	--	--	--	--	--	--
24...	.30	.33	<.050	<.010	--	--	--	<10	2.4
JUL									
24...	--	.27	<.050	<.010	--	9.90	E.230	<10	<2.2
24...	--	--	--	--	--	--	--	--	--
24...	--	.29	<.050	<.010	--	--	--	<10	16

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

313534097142401 - Waco Lk Site DC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
FEB									
03...	1040	1.00	328	8.2	9.0	9.9	86	--	--
03...	1042	10.0	327	8.2	8.5	9.8	84	--	--
03...	1044	20.0	328	8.2	8.0	9.6	81	--	--
03...	1046	20.0	328	8.2	8.0	9.6	81	--	--
APR									
24...	1038	1.00	349	8.1	21.0	7.9	90	<.010	.428
24...	1040	10.0	348	8.1	21.0	7.9	90	--	--
24...	1042	20.0	347	8.1	20.5	7.9	89	--	--
24...	1044	32.0	347	8.0	20.5	7.8	88	<.010	.454
JUL									
24...	1250	1.00	288	8.4	30.5	6.9	93	<.010	<.050
24...	1252	10.0	288	8.4	30.5	6.9	93	--	--
24...	1254	20.0	300	7.7	29.0	1.8	24	--	--
24...	1256	34.0	313	7.3	29.0	.0	0	<.010	<.050

313534097142401 - Waco Lk Site DC

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
FEB								
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
APR								
24...	<.020	--	.32	<.050	<.010	--	<10	E1.3
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
24...	<.020	--	.30	<.050	<.010	--	<10	3.7
JUL								
24...	<.020	--	.28	<.050	<.010	--	<10	2.7
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
24...	.296	.28	.58	<.050	.014	.04	190	445

313608097164501 - Waco Lk Site EC

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
FEB												
03...	1155	1.00	461	8.1	10.0	10.6	94	K4	K5	170	7	56
APR												
24...	1140	1.00	388	8.0	23.0	6.1	72	K460	120	140	--	50
JUL												
24...	1325	1.00	373	7.6	32.5	4.5	63	44	73	150	--	53
24...	1327	10.0	374	7.4	31.5	1.7	23	--	--	--	--	--
24...	1329	19.0	377	7.3	31.0	.5	7	--	--	160	--	54

08095550 WACO LAKE NEAR WACO, TX--Continued

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

313608097164501 - Waco Lk Site EC

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CAC03 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
FEB												
03...	7.3	35	1	30	2.5	--	160	29	17	.29	9.0	253
APR												
24...	4.7	24	.9	26	2.8	162	--	24	13	.28	7.9	223
JUL												
24...	5.2	12	.4	14	4.8	156	--	14	12	.18	10	205
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	5.3	12	.4	14	4.8	159	--	14	12	.18	10	208

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. (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)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
FEB												
03...	<.010	<.050	.086	.23	.31	<.050	.023	.07	--	--	<10	3.8
APR												
24...	<.010	.054	.035	.26	.29	<.050	<.010	--	--	--	<10	4.8
JUL												
24...	<.010	<.050	<.020	--	.38	<.050	<.010	--	12.3	.900	<10	8.5
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.010	<.050	.046	.34	.39	<.050	<.010	--	--	--	<10	134

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site AC (313430097113801)

Phytoplankton Analyses October 1999 to September 2000

Date	02/03/00
Time	ND
TOTAL CELLS/mL	6,928
NUMBER OF SPECIES	14
DEPTH COLLECTED (ft.)	.90

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	60
Order Pennales	
Asterionella formosa var. formosa	47
Fragilaria crotonensis var. crotonensis	214
Synedra ulna var. ulna	9
CHLOROPHYTA	
Ankistrodesmus falcatus	420
Chlamydomonas sp.	30
Crucigenia tetrapedia	30
Oocystis sp.	30
Scenedesmus opoliensis	30
Selenastrum Westii	180
Tetrastrum punctatum	60
CYANOPHYTA	
Aphanocapsa delicatissima	5,398
Chroococcus limneticus	180
Merismopedia tenuissima	240

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site CC (313148097140601)

Phytoplankton Analyses October 1999 to September 2000

Date	02/03/00
Time	ND
TOTAL CELLS/mL	18,204
NUMBER OF SPECIES	20
DEPTH COLLECTED (ft.)	.70

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	90
Order Pennales	
Asterionella formosa var. formosa	97
Cocconeis placentula var. placentula	48
Fragilaria crotonensis var. crotonensis	1,161
Meridion circulare	48
Synedra ulna var. ulna	145
CHLOROPHYTA	
Ankistrodesmus falcatus	270
Chlamydomonas sp.	690
Crucigenia tetrapedia	90
Oocystis sp.	30
Scenedesmus opoliensis	90
Selenastrum Westii	600
Tetrastrum punctatum	30
CYANOPHYTA	
Anabaena spiroides	6,148
Aphanocapsa delicatissima	5,398
Chroococcus limneticus	120
Merismopedia tenuissima	2,879
EUGLENOPHYTA	
Trachelomonas sp.	120
PYRRHOPHYTA	
Ceratium hirundinella	30
CRYPTOPHYTA	
Cryptomonas erosa	120

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site EC (313608097164501)

Phytoplankton Analyses October 1999 to September 2000

Date	02/03/00
Time	ND
TOTAL CELLS/mL	8,188
NUMBER OF SPECIES	8
DEPTH COLLECTED (ft.)	1.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. crotonensis	1,676
Navicula sp.	34
CHLOROPHYTA	
Ankistrodesmus falcatus	60
Chlamydomonas sp.	210
Scenedesmus opoliensis	30
CYANOPHYTA	
Aphanocapsa delicatissima	5,998
EUGLENOPHYTA	
Trachelomonas sp.	60
CRYPTOPHYTA	
Cryptomonas erosa	120

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site AC (313430097113801)

Phytoplankton Analyses October 1999 to September 2000

Date	04/24/00
Time	1112
TOTAL CELLS/mL	34,872
NUMBER OF SPECIES	25
DEPTH COLLECTED (ft.)	0.95

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus parvus	6,563
Stephanodiscus medius	35
Order Pennales	
Diploneis puella	139
Nitzschia acicularis	174
CHLOROPHYTA	
Ankistrodesmus falcatus	35
Chlamydomonas globosa	35
Closterium moniliferum	69
Monoraphidium sp.	208
Oocystis parva	208
Pyramichlamys dissecta	35
Scenedesmus sp.	69
Selenastrum minutum	69
Tetraedron minimum	35
Tetraedron muticum	69
Tetrastrum staurogeniaeforme	278
CYANOPHYTA	
Anabaena circinalis	208
Anabaena flos-aquae	243
Aphanocapsa delicatissima	15,626
Aphanothece nidulans	556
Cyanonephron styloides	278
CHRYSOPHYTA	
Ellipsoidion sp.	35
EUGLENOPHYTA	
Phacus sp.	9
CRYPTOPHYTA	
Cryptomonas erosa	104
Rhodomonas minuta v. *nannoplanctica*	5,625
Misc. microflagellate	4,167

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site CC (313608097164501)

Phytoplankton Analyses October 1999 to September 2000

Date	04/24/00
Time	1214
TOTAL CELLS/mL	31,314
NUMBER OF SPECIES	23
DEPTH COLLECTED (ft.)	0.55

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus cf. *hantzschii*	58
Stephanodiscus medius	29
Stephanodiscus parvus	5,730
Order Pennales	
Diploneis puella	58
Nitzschia acicularis	579
Nitzschia fonticola	58
Nitzschia palea	58
Nitzschia sp.	58
Synedra tenera	29
CHLOROPHYTA	
Ankistrodesmus falcatus	58
Chlamydomonas globosa	174
Chlamydomonas platystigma	116
Closterium moniliferum	116
Colonial chlorophyta - type 2	232
Monoraphidium sp.	174
Oocystis parva	579
CYANOPHYTA	
Aphanocapsa delicatissima	13,022
EUGLENOPHYTA	
Euglena gracilis	58
Phacus sp.	58
PYRRHOPHYTA	
Peridinium umbonatum	116
CRYPTOPHYTA	
Cryptomonas erosa	58
Rhodomonas minuta v. *nannoplanctica*	4,861
Misc. microflagellate	5,035

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site EC (313148097140601)

Phytoplankton Analyses October 1999 to September 2000

Date	04/24/00
Time	1140
TOTAL CELLS/mL	47,004
NUMBER OF SPECIES	37
DEPTH COLLECTED (ft.)	4.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus medius	130
Stephanodiscus parvus	695
Order Pennales	
Cylindrotheca gracilis	43
Navicula sp.	43
Nitzschia palea	11
Synedra tenera	521
CHLOROPHYTA	
Ankistrodesmus falcatus	651
Chlamydomonas globosa	391
Chlamydomonas platystigma	43
Crucigenia tetrapedia	695
Dictyosphaerium pulchellum	14,584
Franceia droescheri	43
Kirchneriella obesa	174
Nephroselmis sp.	43
Non-motile Chlorococcales-spherical	3,863
Pyramichlamys dissecta	43
Quadrigula lacustris	22
Scenedesmus dimorphus	241
Scenedesmus quadricauda	87
Scenedesmus quadricauda v. *longispina*	174
Scenedesmus serratus	174
Tetraedron caudatum	43
Tetraedron trigonum	43
CYANOPHYTA	
Aphanocapsa delicatissima	18,245
Dactylococcopsis irregularis	43
Merismopedia tenuissima	2,691
Non-motile blue-greens (>1 um)	87
Oscillatoria limnetica	219
Synechococcus leopoliensis	174
CHRYSOPHYTA	
Cyst (Chrysophyte)	11
PYRRHOPHYTA	
Gymnodinium sp. 1	43
Gymnodinium sp. 2	43
Peridinium umbonatum	87
CRYPTOPHYTA	
Cryptomonas erosa	304
Cryptomonas ovata	43
Rhodomonas minuta v. *nannoplanctica*	1,215
Misc. microflagellate	1,042

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site AC (313430097113801)

Phytoplankton Analyses October 1999 to September 2000

Date	07/24/00
Time	1154
TOTAL CELLS/mL	111,987
NUMBER OF SPECIES	32
DEPTH COLLECTED (ft.)	1.4

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Melosira italica	260
Stephanodiscus medius	130
Order Pennales	
Nitzschia palea	1,042
Synedra tenera	260
CHLOROPHYTA	
Ankistrodesmus convolutus	130
Chlamydomonas globosa	391
Closterium moniliferum	44
Coelastrum astroideum	351
Cosmarium tenue	130
Monoraphidium capricornutum	130
Non-motile Chlorococcales	260
Oocystis parva	586
Ulothrix sp.	260
CYANOPHYTA	
Aphanizomenon sp.	438
Aphanocapsa delicatissima	33,856
Aphanocapsa elachista	5,209
Aphanocapsa koordersi	5,209
Aphanothece nidulans	4,688
Chroococcus limneticus	175
Cylindrospermopsis philippinensis	1,432
Dactylococcopsis irregularis	7,553
Lyngbya limnetica	35,810
Merismopedia punctata	2,084
Merismopedia tenuissima	4,167
Microcystis aeruginosa-colony form	1,315
Non-motile blue-greens (>1 um)	781
Oscillatoria limnetica	3,907
CHRYSOPHYTA	
Erkenia subaequiciliata	130
EUGLENOPHYTA	
Euglena gracilis	130
PYRRHOPHYTA	
Peridinium umbonatum	22
CRYPTOPHYTA	
Rhodomonas minuta v. *nannoplanctica*	130
Misc. micros, 1 flagellum	977

08095550 WACO LAKE NEAR WACO, TX--Continued

Waco Lake Site CC (313608097164501)

Phytoplankton Analyses October 1999 to September 2000

Date	07/24/00
Time	1426
TOTAL CELLS/mL	78,939
NUMBER OF SPECIES	31
DEPTH COLLECTED (ft.)	0.9

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus medius	391
Stephanodiscus minutulus	260
Order Pennales	
Nitzschia palea	130
Synedra tenera	912
CHLOROPHYTA	
Chlorogonium sp.	130
Cosmarium tenue	130
Crucigenia crucifera	130
Dictyosphaerium pulchellum	391
Monoraphidium capricornutum	391
Non-motile Chlorococcales-spherical	130
Oocystis parva	130
Pyramichlamys dissecta	22
Scenedesmus bijuga	260
Sphaerocystis schroeteri	175
CYANOPHYTA	
Anabaena circinalis	351
Aphanocapsa delicatissima	24,611
Aphanocapsa elachista	3,907
Chroococcus minimus	1,042
Cylindrospermopsis philippinensis	3,125
Dactylococcopsis irregularis	7,292
Lyngbya limnetica	21,877
Merismopedia tenuissima	6,250
Microcystis aeruginosa-colony form	2,084
Microcystis viridis	1,432
Non-motile blue-greens (>1 um)	1,432
EUGLENOPHYTA	
Phacus sp.	22
PYRRHOPHYTA	
Gymnodinium sp. 1	22
Gymnodinium sp. 3	130
Peridinium umbonatum	22
CRYPTOPHYTA	
Rhodomonas minuta v. *nannoplanctica*	130
Misc. micros, 1 flagellum	1,628

Waco Lake Site EC (313148097140601)

Phytoplankton Analyses October 1999 to September 2000

Date	07/24/00
Time	1325
TOTAL CELLS/mL	61,064
NUMBER OF SPECIES	45
DEPTH COLLECTED (ft.)	1.2

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Nitzschia palea	29
Synedra tenera	29
CHLOROPHYTA	
Ankistrodesmus convolutus	29
Ankistrodesmus falcatus	637
Asterococcus sp.	29
Chlamydomonas globosa	666
Chlamydomonas sp.	116
Chlorogonium sp.	203
Crucigenia tetrapedia	116
Lagerheimia ciliata	29
Monomastix astigmata	116
Monoraphidium capricornutum	347
Non-motile Chlorococcales-spherical	376
Oocystis lacustris	29
Oocystis parva	232
Oocystis pusilla	116
Pandorina morum	463
Scenedesmus bijuga	506
Scenedesmus quadricauda	116
Tetraedron minimum	116
Tetrastrum glabrum	347
CYANOPHYTA	
Aphanocapsa delicatissima	26,072
Aphanocapsa elachista	1,447
Aphanothece nidulans	579
Chroococcus minimus	521
Dactylococcopsis irregularis	145
Merismopedia punctata	232
Merismopedia tenuissima	16,668
Non-motile blue-greens (>1 um)	260
Oscillatoria amphibia	174
Oscillatoria limnetica	926
CHRYSOPHYTA	
Erkenia subaequiciliata	29
Polygoniochloris sp.	29
EUGLENOPHYTA	
Euglena sp.	492
Phacus sp.	29
PYRRHOPHYTA	
Glenodinium quadridens	29
Gymnodinium sp. 1	87
Gymnodinium sp. 2	29
Gymnodinium sp. 3	29
Peridinium cinctum	44
Peridinium umbonatum	145
CRYPTOPHYTA	
Cryptomonas erosa	145
Rhodomonas minuta v. *nannoplanctica*	203
CHLOROMONADOPHYTA	
Gonyostomum semen	29
Misc. micros, 1 flagellum	8,074

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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 mi^2.

PERIOD OF RECORD.--
CHEMICAL DATA: Feb 1998 to current year.
BIOCHEMICAL DATA: Feb 1998 to current year.
Water-discharge records.--Aug 1959 to Sep 1981 (daily mean discharge). Oct 1981 to Sep 1985 (daily mean discharge above 2,000 ft^3/s).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB											
03...	1320	12	354	7.9	12.0	13	11.1	104	.8	140	32
APR											
24...	1300	--	405	8.3	24.0	3.5	6.7	81	1.9	160	24
JUL											
24...	1505	--	467	7.8	31.6	2.9	5.6	77	3.8	160	20

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
FEB											
03...	45.5	5.31	18.2	.7	2.9	--	100	31.8	16.8	.3	8.4
APR											
24...	54.4	5.08	18.1	.6	2.9	--	130	36.1	19.0	.3	8.3
JUL											
24...	53.8	5.10	27.4	1	3.9	136	--	46.9	30.8	.3	9.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, 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)
FEB										
03...	206	192	17	<.010	.146	.061	.31	.38	<.050	<.010
APR										
24...	238	225	2	<.010	.290	.020	.26	.28	<.050	<.010
JUL										
24...	272	259	<10	<.010	<.050	<.020	--	.49	<.050	<.010

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
FEB										
03...	3.9	7	<1	2.7	44	<1	<1.0	<1.0	<1	1
APR										
24...	4.2	13	<1	2.8	46	<1	<1.0	<.8	<1	1
JUL										
24...	7.5	5	<1	3.7	44	<1	<1.0	<.8	<1	<1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB										
03...	<10	<1	15	<.2	2	2	<2.4	<1	4	<1
APR										
24...	E10	<1	18	<.2	2	<1	<2.4	<1	3	<1
JUL										
24...	<10	<1	<1	<.2	2	<1	--	<1	3	<1

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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 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Sep 1898 to current year (Jan 1912 to Sep 1914 monthly records only, published in WSP 1312).

REVISED RECORDS.--WSP 850 and 878: 1899-1900, 1907-9 (monthly and yearly summaries only). WSP 1512: 1901-5, 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. Sep 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 by Possum Kingdom Lake (station 08088500, conservation pool storage 556,220 acre-ft). The combined capacity for 18 reservoirs above station is 4,135,000 acre-ft, of which 2,194,000 acre-ft is flood-control storage in Lake Whitney and in Waco Lake. 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 mi^2 in the Aquilla and Hackberry Creeks drainage basins. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--42 years (water years 1899-1940), 2,560 ft^3/s (1,855,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1899-1940).--Maximum discharge since 1847, 246,000 ft^3/s Sep 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	56	50	55	19	23	2.7	149	24	256	812	1090
2	23	52	54	59	14	25	9.1	946	20	219	852	1530
3	23	30	60	1780	14	77	277	134	608	241	1340	59
4	24	32	163	1390	11	40	43	43	10300	182	1690	894
5	24	34	33	398	11	97	25	410	10200	189	1930	1820
6	24	37	28	170	13	59	27	112	2780	252	238	1260
7	24	37	38	246	12	24	25	56	1460	895	883	1010
8	24	39	47	358	12	18	21	317	1220	472	1120	31
9	24	37	210	171	14	14	15	911	1280	86	393	24
10	24	37	37	143	16	67	17	164	836	317	139	24
11	24	38	91	126	12	214	19	72	906	441	986	897
12	23	38	442	118	12	233	2630	1350	634	232	1090	690
13	24	39	172	107	12	104	939	1780	403	809	716	1060
14	24	38	88	99	11	17	196	414	769	985	186	385
15	26	37	74	99	13	12	152	231	677	906	34	319
16	28	35	28	98	15	9.8	43	317	642	482	829	46
17	30	38	71	96	18	9.2	56	544	988	410	977	42
18	26	56	125	97	16	11	21	111	2060	174	1470	53
19	28	104	28	93	11	23	93	e220	1900	30	439	621
20	31	23	36	60	13	18	57	e160	1310	1020	173	238
21	32	27	50	17	15	152	85	e340	972	562	40	251
22	31	39	51	15	21	75	11	e450	961	709	74	1610
23	29	68	53	12	38	154	18	1790	1910	226	126	698
24	26	56	54	22	26	82	16	175	1140	38	137	285
25	26	36	52	35	28	48	14	331	1050	738	568	87
26	28	42	60	32	360	84	24	220	795	601	798	33
27	30	44	66	50	189	240	28	349	668	1390	907	150
28	31	47	45	38	71	186	58	599	718	237	910	132
29	30	50	51	31	36	53	6.0	91	874	82	918	276
30	379	49	55	31	---	36	6.1	54	580	26	460	213
31	54	---	57	26	---	3.7	---	36	---	20	982	---
TOTAL	1196	1295	2469	6072	1053	2208.7	4933.9	12876	48685	13227	22217	15828
MEAN	38.6	43.2	79.6	196	36.3	71.2	164	415	1623	427	717	528
MAX	379	104	442	1780	360	240	2630	1790	10300	1390	1930	1820
MIN	22	23	28	12	11	3.7	2.7	36	20	20	34	24
AC-FT	2370	2570	4900	12040	2090	4380	9790	25540	96570	26240	44070	31390

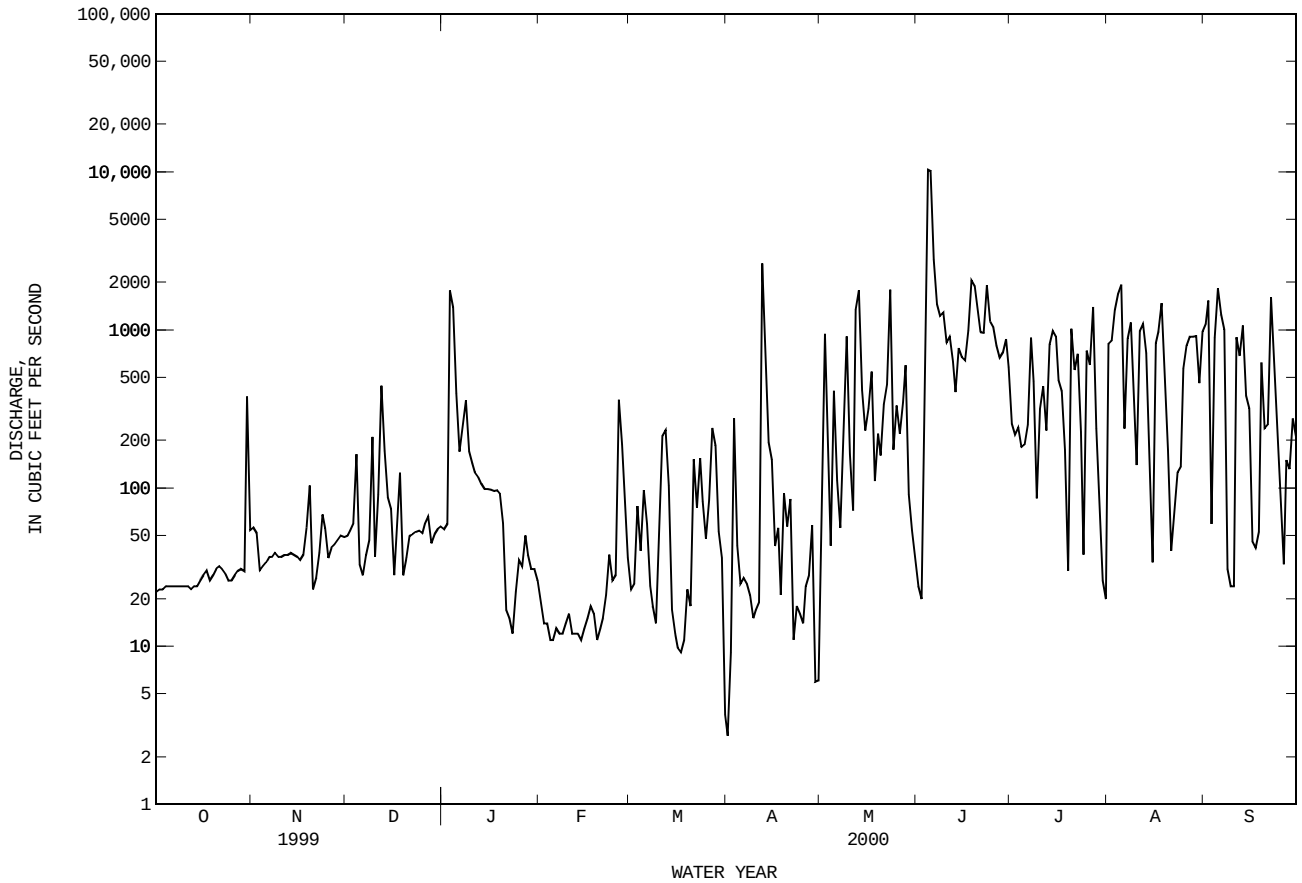
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000z, BY WATER YEAR (WY)

MEAN	1924	1442	1538	1867	2121	2538	2828	5393	4290	1667	1091	1222
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000z	
ANNUAL TOTAL	152635		132060.6			
ANNUAL MEAN	418		361		2327	
HIGHEST ANNUAL MEAN					9611	1992
LOWEST ANNUAL MEAN					322	1984
HIGHEST DAILY MEAN	6380	Jan 30	10300	Jun 4	121000	Apr 22 1945
LOWEST DAILY MEAN	18	Sep 22	2.7	Apr 1	.12	Aug 7 1988
ANNUAL SEVEN-DAY MINIMUM	21	Sep 18	12	Feb 2	4.4	May 13 1988
INSTANTANEOUS PEAK FLOW			19100	Jun 5	144000	Apr 22 1945
INSTANTANEOUS PEAK STAGE			16.81	Jun 5	36.70	Apr 22 1945
ANNUAL RUNOFF (AC-FT)	302800		261900		1686000	
10 PERCENT EXCEEDS	1200		983		4810	
50 PERCENT EXCEEDS	144		70		830	
90 PERCENT EXCEEDS	26		17		127	

e Estimated
z Period of regulated streamflow.



08098290 BRAZOS RIVER NEAR HIGHBANK, TX

LOCATION.--Lat 31°08′02", long 96°49′29", Falls County, Hydrologic Unit 12070101, near right bank 45 ft downstream from bridge on Farm Road 413, 1.4 mi downstream from Highbank Slough and Spring Branch, 2.6 mi south of Highbank, and at mile 346.6.

DRAINAGE AREA.--30,436 mi^2, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Oct 1965 to current year.
Water-quality records.--Chemical data: Nov 1967 to Aug 1997. Biochemical data: Nov 1967 to Aug 1997. Pesticide data: Nov 1976 to Jun 1981. Sediment data: Oct 1974 to Jul 1994. Specific conductance: Nov 1967 to Sep 1997. Water temperature: Nov 1967 to Feb 1984, Dec 1989 to Sep 1997.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 279.29 ft above sea level. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in Oct 1965, at least 10% of contributing drainage area has been regulated by 16 upstream reservoirs with a combined capacity of 1,950,000 acre-ft. Water is diverted from the river about 52 miles upstream from this station by Texas Power and Light Co. to Tradinghouse Reservoir. Flow is affected at times by discharge from the flood-detention pools of 76 floodwater-retarding structures with a total combined detention capacity of 83,290 acre-ft. These structures control runoff from 238 mi^2 in the Aquilla, Tehuacana, Castleman Creeks, and Cow Bayou. Many diversions above station for municipal supply, irrigation, and industrial uses. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1909, 42 ft in Dec 1913 and 40 ft in Sep 1936, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	375	115	110	70	286	121	143	255	1010	103	640
2	187	243	128	111	67	199	122	160	174	524	262	994
3	178	121	126	113	60	611	212	1340	127	332	618	1180
4	169	84	145	1090	48	484	391	1070	144	289	1110	728
5	166	76	149	1870	44	313	534	819	14600	257	1420	371
6	157	64	209	919	43	202	301	1350	12800	251	1600	1430
7	149	53	217	588	42	187	180	781	4960	222	620	1270
8	153	45	143	599	40	159	117	392	2870	570	511	1210
9	156	45	134	646	38	102	85	255	2460	408	933	414
10	152	48	135	462	38	79	80	693	1790	373	585	190
11	148	73	289	321	36	61	91	561	1820	145	354	122
12	147	73	290	271	35	169	401	269	2870	343	534	102
13	143	57	429	244	34	317	3110	775	4750	294	942	660
14	131	54	581	218	31	337	2200	1670	3920	467	703	873
15	130	61	362	197	31	202	1170	680	2110	769	500	667
16	128	95	239	184	30	114	626	492	912	790	243	460
17	127	109	245	171	30	223	351	252	761	470	275	e164
18	133	97	162	166	30	113	234	528	964	354	782	e160
19	138	88	134	156	30	137	199	323	2270	279	1230	112
20	140	91	228	150	36	114	144	241	2850	161	612	103
21	125	122	197	137	40	86	126	269	1940	396	378	411
22	116	202	133	131	44	121	144	656	1310	588	242	305
23	110	127	129	107	73	205	146	370	1050	571	154	769
24	106	91	139	72	62	193	99	703	1690	457	126	970
25	95	93	140	64	102	212	72	628	1100	196	119	640
26	77	151	132	60	139	165	64	270	991	249	194	398
27	69	156	127	69	621	123	59	373	822	530	589	257
28	61	113	125	84	869	118	55	444	638	1060	733	152
29	57	102	124	86	462	344	53	1030	693	535	793	130
30	90	107	127	93	---	212	61	775	945	217	812	180
31	111	---	107	70	---	155	---	430	---	137	608	---
TOTAL	4027	3216	5940	9559	3225	6343	11548	18742	74586	13244	18685	16062
MEAN	130	107	192	308	111	205	385	605	2486	427	603	535
MAX	187	375	581	1870	869	611	3110	1670	14600	1060	1600	1430
MIN	57	45	107	60	30	61	53	143	127	137	103	102
AC-FT	7990	6380	11780	18960	6400	12580	22910	37170	147900	26270	37060	31860

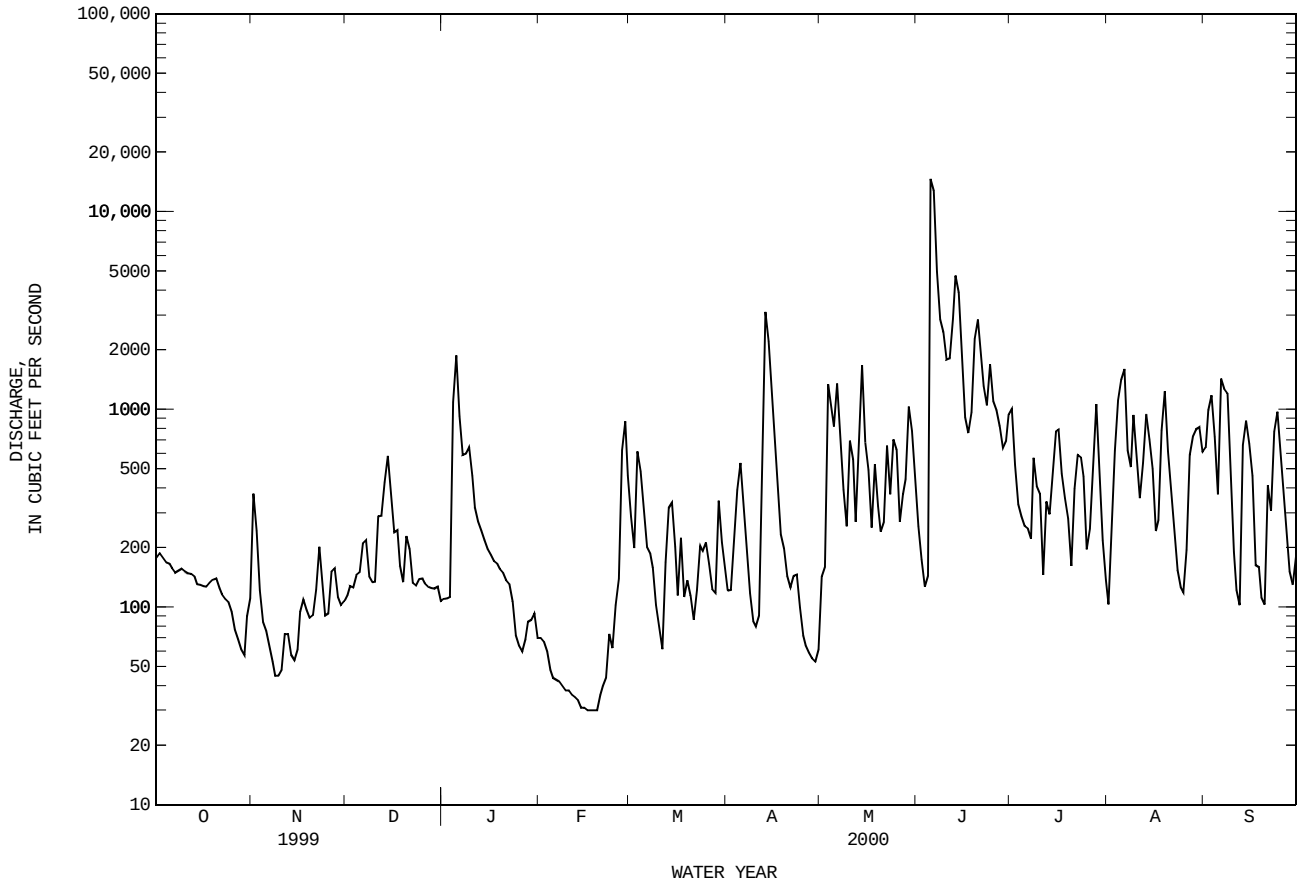
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	1681	2033	2348	2683	2992	3883	3411	5798	4962	1747	1250	1239
MAX	13740	18050	16830	31930	21820	22730	15700	30140	17520	10050	8600	9865
(WY)	1982	1975	1992	1992	1992	1992	1977	1990	1989	1982	1995	1966
MIN	93.6	72.6	163	167	30.8	84.7	196	179	216	84.4	167	116
(WY)	1984	1984	1984	1984	1984	1971	1978	1988	1999	1978	1988	1999

08098290 BRAZOS RIVER NEAR HIGHBANK, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	228189		185177			
ANNUAL MEAN	625		506		2834	
HIGHEST ANNUAL MEAN					11320	1992
LOWEST ANNUAL MEAN					329	1984
HIGHEST DAILY MEAN	14000	Jan 30	14600	Jun 5	70300	Dec 22 1991
LOWEST DAILY MEAN	45	Nov 8	30	Feb 16	23	Feb 24 1984
ANNUAL SEVEN-DAY MINIMUM	56	Nov 7	31	Feb 13	23	Sep 15 1984
INSTANTANEOUS PEAK FLOW			20000	Jun 5	78700	Feb 4 1986
INSTANTANEOUS PEAK STAGE			13.41	Jun 5	30.78	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	452600		367300		2053000	
10 PERCENT EXCEEDS	1340		1040		6320	
50 PERCENT EXCEEDS	294		197		1020	
90 PERCENT EXCEEDS	94		63		210	

e Estimated



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 mi^2.

PERIOD OF RECORD.--Jan 1955 to Sep 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 Sep 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 Jun 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 ft^3/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 Sep 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, Jun 13, 1967, elevation, 1,382.20 ft; minimum contents since first appreciable storage, 14,790 acre-ft, Sep 30, 2000, elevation, 1,365.16 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,630 acre-ft, Jun 15, elevation, 1,368.66 ft; minimum contents, 14,790 acre-ft, Sep 30, elevation, 1,365.16 ft.

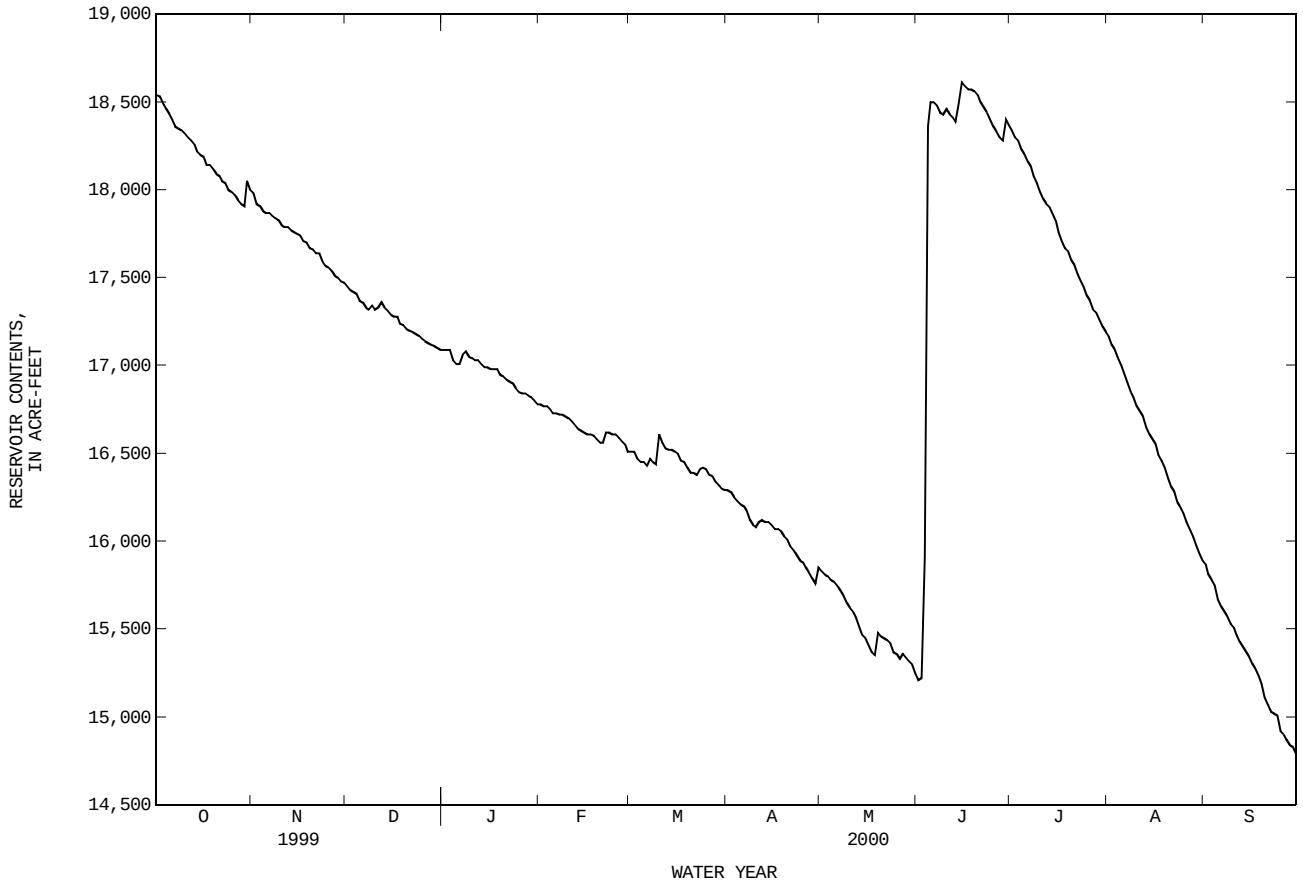
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18540	17980	17450	17090	16780	16510	16290	15830	15210	18340	17170	15870
2	18530	17920	17430	17090	16770	16510	16280	15810	15220	18300	17120	15810
3	18490	17910	17420	17090	16770	16470	16250	15800	15910	18280	17090	15780
4	18460	17880	17410	17030	16750	16450	16230	15780	18360	18230	17040	15750
5	18430	17870	17370	17010	16730	16450	16210	15770	18500	18200	17000	15670
6	18400	17870	17360	17010	16730	16430	16200	15750	18500	18160	16950	15630
7	18360	17850	17330	17060	16720	16470	16170	15720	18480	18130	16900	15600
8	18350	17840	17320	17080	16720	16450	16120	15690	18440	18080	16850	15570
9	18340	17830	17340	17050	16710	16440	16090	15650	18430	18040	16820	15530
10	18320	17800	17320	17040	16700	16610	16080	15620	18460	17990	16770	15510
11	18300	17790	17330	17030	16680	16560	16110	15600	18430	17950	16740	15470
12	18280	17790	17360	17030	16660	16530	16120	15570	18410	17920	16710	15430
13	18260	17770	17330	17010	16640	16520	16110	15520	18390	17900	16650	15400
14	18220	17760	17310	16990	16630	16520	16110	15470	18490	17860	16610	15370
15	18200	17750	17290	16990	16620	16510	16090	15450	18610	17820	16580	15340
16	18190	17740	17280	16980	16610	16500	16070	15410	18590	17760	16550	15300
17	18140	17710	17280	16980	16610	16460	16070	15370	18570	17710	16490	15270
18	18140	17700	17240	16980	16600	16450	16060	15350	18570	17670	16460	15230
19	18120	17670	17230	16950	16580	16420	16030	15480	18560	17650	16420	15190
20	18090	17660	17210	16940	16560	16390	16010	15460	18540	17600	16360	15110
21	18080	17640	17200	16920	16560	16390	15970	15450	18500	17570	16310	15070
22	18050	17640	17190	16910	16620	16380	15950	15440	18470	17520	16280	15030
23	18040	17590	17180	16900	16620	16410	15920	15420	18440	17480	16220	15020
24	18000	17570	17170	16870	16610	16420	15890	15370	18400	17450	16190	15010
25	17990	17560	17150	16850	16610	16410	15880	15360	18360	17400	16160	14920
26	17970	17540	17140	16840	16590	16380	15850	15330	18330	17370	16110	14900
27	17940	17510	17130	16840	16570	16370	15820	15360	18300	17320	16070	14870
28	17920	17500	17120	16830	16550	16340	15790	15340	18280	17300	16030	14840
29	17910	17480	17110	16820	16510	16320	15760	15320	18400	17260	15980	14830
30	18050	17470	17100	16800	---	16300	15850	15300	18370	17220	15930	14790
31	18000	---	17090	16780	---	16290	---	15250	---	17190	15890	---
MAX	18540	17980	17450	17090	16780	16610	16290	15830	18610	18340	17170	15870
MIN	17910	17470	17090	16780	16510	16290	15760	15250	15210	17190	15890	14790
(+)	1368.12	1367.65	1367.31	1367.04	1366.79	1366.58	1366.18	1365.60	1368.44	1367.40	1366.21	1365.16
(@)	-570	-530	-380	-310	-270	-220	-440	-600	+3120	-1180	-1300	-1100

WTR YR 2000 MAX 18610 MIN 14790 (@) -3780

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

08099000 LEON RESERVOIR NEAR RANGER, TX--Continued



08099100 LEON RIVER NEAR DE LEON, 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 mi^2.

PERIOD OF RECORD.--Sep 1960 to Sep 1986 (daily mean discharge), Oct 1986 to Sep 1995 (daily discharges greater than 600 ft^3/s), Oct 1995 to current year (peak discharges greater than base discharge).
Water-quality records.--Chemical data: May 1981 to Jul 1982, Nov 1990 to Aug 1997. Biochemical data: May 1981 to Jul 1982, 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 1,209.93 ft above sea level. Prior to Nov 22, 1960, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage in Sep 1960, at least 10% of contributing drainage area has been regulated by Leon Reservoir (station 08099000, conservation pool storage 26,420 acre-ft), about 17.5 mi upstream. There are numerous diversions above station for municipal, steam powerplant operation, and other uses.

AVERAGE DISCHARGE.--26 years (water years 1961-86), 41.1 ft^3/s (29,760 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s Apr 26, 1990 (gage height, 19.00 ft, from floodmarks), from rating curve extended above 17,600 ft^3/s; prior to Apr 26, 1990, maximum discharge, 7,540 ft^3/s Jun 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 ft^3/s:

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

No peak greater than base discharge.

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08099300 SABANA RIVER NEAR DE LEON, 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 mi^2.

PERIOD OF RECORD.--Sep 1960 to Sep 1986 (daily mean discharge), Oct 1986 to Sep 1995 (daily discharges greater than 250 ft^3/s), Oct 1995 to Sep 1999 (peak discharges greater than base discharge), Oct 1999 to current year (daily mean discharge).
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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1890, 24 ft in May 1908, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s:

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.27	.00	.00	.00	.00	7.7	.00	.00
2	.00	.00	.00	.00	.10	.00	.00	.00	e.00	2.5	.00	.00
3	.00	.00	.00	.00	.16	.00	.00	.00	226	.91	.00	.00
4	.00	.00	.00	.00	.26	.00	.00	.00	304	.02	.00	.00
5	.00	.00	.00	.00	.01	.00	.00	.00	43	e.00	.00	.00
6	.00	.00	.00	.00	e.00	.00	.00	.00	16	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	4.5	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00
9	.00	.00	.00	.00	.00	e.00	.00	.00	1.7	.00	.00	.00
10	.00	.00	.00	.00	.00	.05	.00	.00	1.8	.00	.00	.00
11	.00	.00	.00	.00	.00	.39	e.00	.00	2.4	.00	.00	.00
12	.00	.00	.00	.00	.00	e.00	3.2	.00	1.6	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	15	.00	.83	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	12	.00	.11	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	4.9	.00	28	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.17	.00	9.8	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	e.00	.00	2.0	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	e.00	.00	.00	.00	.00	e.00	.00	.00	.00
30	.00	.00	.00	3.1	---	.00	.00	.00	29	.00	.00	.00
31	.00	---	.00	1.2	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	4.30	1.66	0.44	35.27	0.00	672.30	11.13	0.00	0.00
MEAN	.000	.000	.000	.14	.057	.014	1.18	.000	22.4	.36	.000	.000
MAX	.00	.00	.00	3.1	.40	.39	15	.00	304	7.7	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	8.5	3.3	.9	70	.00	1330	22	.00	.00

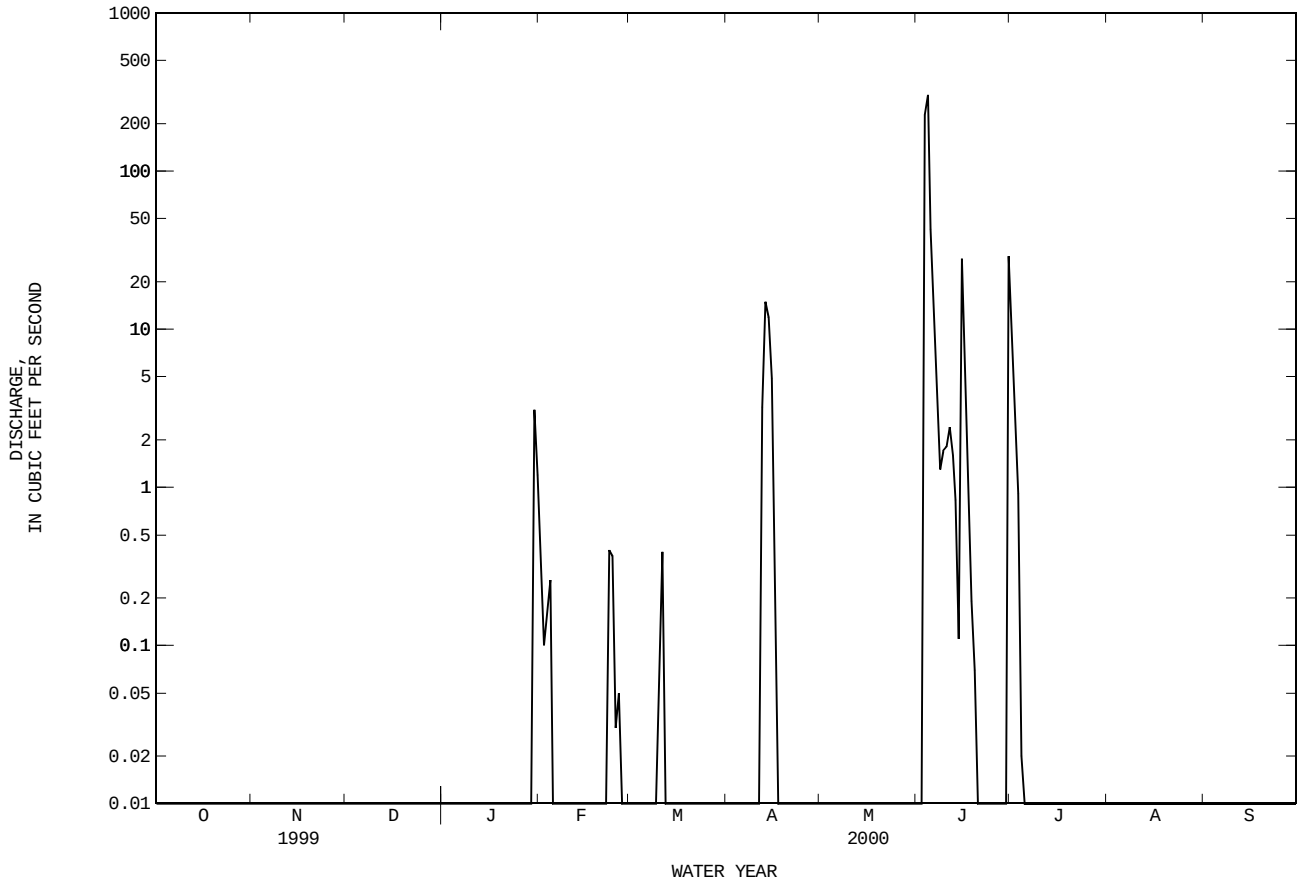
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000h, BY WATER YEAR (WY)

MEAN	22.0	12.2	8.04	33.9	13.3	32.2	28.5	76.6	58.2	12.2	4.52	31.5
MAX	124	199	98.2	589	66.3	267	251	447	562	113	68.3	401
(WY)	1985	1965	1985	1968	1975	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

08099300 SABANA RIVER NEAR DE LEON, TX--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000h	
ANNUAL TOTAL	725.10			
ANNUAL MEAN	1.98		27.9	
HIGHEST ANNUAL MEAN			105	1968
LOWEST ANNUAL MEAN			1.63	1978
HIGHEST DAILY MEAN	304	Jun 4	7060	Jun 14 1989
LOWEST DAILY MEAN	.00	Oct 1	.00	May 11 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00	May 11 1962
INSTANTANEOUS PEAK FLOW	1210	Jun 3	c19500	Apr 26 1990
INSTANTANEOUS PEAK STAGE	a12.19	Jun 3	a23.65	Apr 26 1990
ANNUAL RUNOFF (AC-FT)	1440		20230	
10 PERCENT EXCEEDS	.05		20	
50 PERCENT EXCEEDS	.00		1.3	
90 PERCENT EXCEEDS	.00		.00	

e Estimated
h See PERIOD OF RECORD paragraph.
c From rating curve extended above 17,000 ft^3/s.
a From floodmark.



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 mi^2.

PERIOD OF RECORD.--Jan 1963 to current year. Prior to Oct 1970, published as "Proctor Reservoir".
Water-quality records.--Chemical data: Jan 1964 to Jul 1982, Jan 1990 to Aug 1997. Biochemical data: Jan 1964 to Jul 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, non-recording gage at same site and datum. Satellite telemeter at station.

REMARKS.--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 Jul 5, 1963. The gates were closed Jul 6, 1963, but the lake was operated as a detention basin to elevation 1,156.0 ft until construction was completed. Deliberate impoundment began Sep 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 ft^3/s at an elevation of 1,201.0 ft. The lake is operated for flood control and water conservation. Inflow is partly regulated by one major reservoir (see station 08099000). 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 mi^2 in the Leon River and Rush Creek drainage basins. Borrow is not included in capacity totals. 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.--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, 383,100 acre-ft, May 2, 1990, elevation, 1,197.63 ft; minimum since first filling of lake, 7,020 acre-ft, Sep 30, 2000, elevation, 1,143.14 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,560 acre-ft, Oct 1, elevation, 1,153.05 ft; minimum contents, 7,020 acre-ft, Sep 30, elevation, 1,143.14 ft.

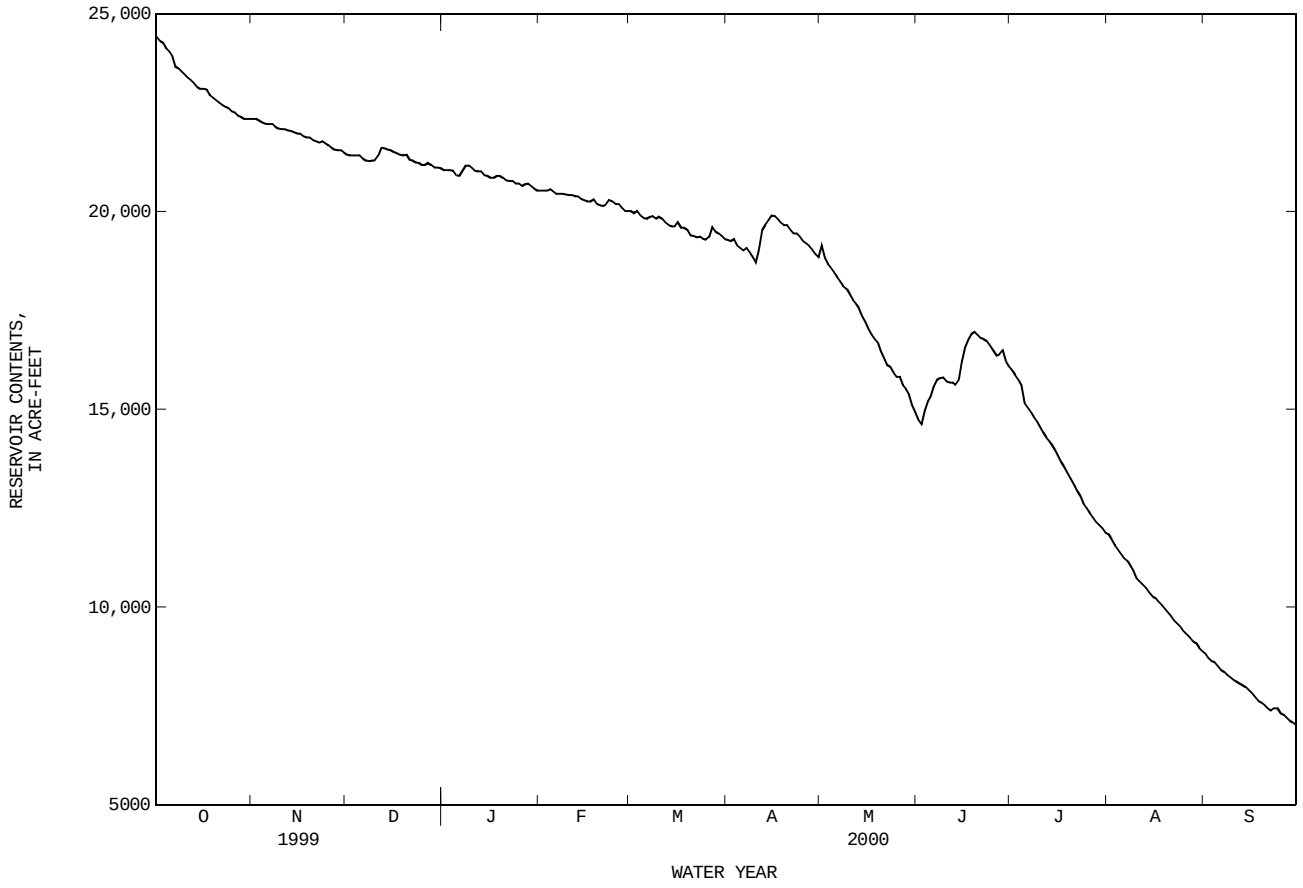
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24420	22350	21450	21060	20540	20020	19290	19140	14740	16010	11840	8810
2	24320	22350	21430	21060	20540	19970	19270	18840	14640	15880	11710	8710
3	24280	22310	21430	21060	20540	20020	19310	18680	14970	15770	11570	8650
4	24140	22260	21430	21040	20570	19910	19140	18600	15210	15620	11460	8600
5	24050	22220	21430	20930	20520	19850	19080	18480	15330	15170	11340	8510
6	23960	22220	21340	20910	20460	19830	19020	18360	15590	15040	11230	8420
7	23680	22220	21300	21040	20460	19870	19080	18240	15750	14940	11160	8360
8	23640	22150	21280	21170	20460	19890	18960	18120	15790	14830	11040	8280
9	23540	22110	21300	21170	20440	19830	18840	18040	15810	14710	10920	8210
10	23480	22080	21300	21100	20420	19870	18720	17920	15720	14560	10730	8150
11	23380	22080	21400	21040	20420	19830	19040	17760	15680	14420	10640	8120
12	23320	22060	21620	21020	20400	19720	19540	17680	15680	14280	10560	8070
13	23250	22040	21600	21020	20400	19660	19660	17570	15620	14200	10490	8030
14	23160	22020	21580	20930	20330	19640	19780	17370	15730	14060	10370	7980
15	23110	21980	21560	20910	20290	19640	19910	17220	16210	13940	10280	7900
16	23110	21980	21510	20860	20270	19720	19890	17040	16570	13800	10220	7810
17	23090	21910	21470	20860	20270	19600	19810	16890	16760	13640	10140	7720
18	22960	21890	21450	20910	20310	19600	19720	16780	16910	13510	10070	7630
19	22890	21890	21430	20910	20200	19560	19660	16680	16970	13370	9970	7590
20	22820	21820	21450	20860	20160	19410	19660	16490	16870	13220	9860	7520
21	22750	21780	21320	20800	20140	19390	19560	16310	16820	13070	9780	7440
22	22710	21760	21300	20780	20180	19350	19450	16140	16780	12920	9660	7370
23	22660	21780	21250	20780	20290	19370	19450	16080	16740	12780	9570	7440
24	22620	21730	21230	20720	20270	19330	19370	15940	16630	12620	9500	7450
25	22550	21690	21190	20720	20200	19290	19270	15820	16490	12500	9400	7310
26	22510	21620	21190	20650	20200	19350	19210	15820	16360	12370	9320	7270
27	22440	21580	21230	20690	20100	19620	19140	15620	16400	12260	9230	7210
28	22400	21560	21190	20720	20020	19490	19040	15530	16490	12150	9150	7140
29	22350	21560	21120	20650	20020	19450	18940	15390	16210	12070	9090	7090
30	22350	21490	21120	20590	---	19390	18860	15120	16100	11990	8960	7020
31	22350	---	21100	20540	---	19310	---	14940	---	11870	8880	---
MAX	24420	22350	21620	21170	20570	20020	19910	19140	16970	16010	11840	8810
MIN	22350	21490	21100	20540	20020	19290	18720	14940	14640	11870	8880	7020
(+)	1152.08	1151.68	1151.50	1151.24	1151.00	1150.65	1150.43	1148.37	1149.02	1146.56	1144.56	1143.14
(@)	-2180	-860	-390	-560	-520	-710	-450	-3920	+1160	-4230	-2990	-1860

CAL YR 1999 MAX 39830 MIN 21100 (@) -12790
WTR YR 2000 MAX 24420 MIN 7020 (@) -17510

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

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jan 1925 to Sep 1931, Sep 1960 to Sep 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 Sep 30, 1931, nonrecording gage 1.4 mi downstream at datum 1.87 ft higher. Sep 1 to Nov 22, 1960, nonrecording gage at same site and at 5.00 ft higher datum. Nov 22, 1960 to Sep 30, 1972, recording gage at same site and at 5.00 ft higher datum. Satellite telemeter at station.

REMARKS.--Records good. Since water year 1964, at least 10% of contributing drainage area has been regulated by Proctor Lake (station 08099400, conservation pool storage 55,588 acre-ft) 54 miles upstream and by several other smaller reservoirs. 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 mi^2.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--9 years (water years 1925-31, 1961-63) prior to regulation by Proctor Lake 148 ft^3/s (107,500 acre-ft/yr).

AVERAGE DISCHARGE FOR REGULATED PERIOD.--33 years (water years 1964-96), 212 ft^3/s (153,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1926-31, 1961-63).--Maximum discharge, 18,600 ft^3/s Sep 9, 1962 (gage height, 26.93 ft); no flow at times.

EXTREMES FOR REGULATED PERIOD.--Maximum discharge, 32,100 ft^3/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 Sep 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 ft^3/s:

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

No peak greater than base discharge.

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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 mi^2.

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 by Proctor Lake (station 08099400, conservation pool storage 55,588 acre-ft) and other smaller reservoirs. Flow at times is slightly affected by discharge from 18 floodwater-retarding structures with a combined detention capacity of 12,600 acre-ft. These structures control runoff from 47.0 mi^2 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--13 years, (water years 1951-1963), 267 ft^3/s (193,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1951-1963).--Maximum discharge, 51,200 ft^3/s Oct 4, 1959 (gage height, 34.14 ft), from rating curve extended above 41,000 ft^3/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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.9	3.6	9.8	13	8.8	11	10	4.6	30	3.5	2.1
2	2.6	2.4	3.9	9.5	13	8.5	14	8.8	4.4	20	3.4	2.2
3	2.3	2.3	4.1	9.6	12	21	18	7.2	1460	16	3.3	2.1
4	2.4	2.5	3.9	9.1	11	9.8	14	7.6	5960	13	3.3	2.3
5	2.4	2.7	3.6	9.0	9.9	8.1	12	7.0	962	13	3.2	2.3
6	2.3	2.8	3.5	8.8	9.7	8.5	10	6.1	644	12	3.0	2.2
7	2.3	2.9	3.8	12	15	8.9	9.2	5.1	269	12	3.1	2.2
8	2.6	3.0	4.0	19	16	10	7.8	6.1	140	11	2.9	2.2
9	2.5	3.0	4.4	17	14	9.4	6.7	8.1	189	10	2.9	2.2
10	3.1	3.1	3.8	15	12	10	7.4	6.4	189	9.5	3.0	2.1
11	2.2	3.0	3.8	14	11	9.7	7.7	5.1	254	8.7	3.2	2.3
12	2.2	3.0	7.9	15	10	9.0	90	4.4	279	7.9	3.2	2.1
13	2.8	2.8	4.1	16	10	9.0	31	3.5	209	7.6	3.1	2.4
14	2.2	2.9	3.3	14	10	8.7	121	3.0	134	7.1	3.4	2.4
15	2.4	3.3	3.1	13	10	8.8	262	2.8	87	6.7	3.3	2.2
16	2.4	3.4	3.0	13	10	8.7	117	2.6	73	6.2	3.0	2.0
17	2.3	3.5	3.2	12	10	106	70	2.6	111	6.1	2.9	2.0
18	2.5	3.9	18	12	11	20	51	2.3	172	5.5	2.9	2.1
19	2.4	4.0	30	12	10	10	39	25	644	5.1	2.9	2.1
20	2.5	3.6	23	15	9.5	9.8	29	29	330	4.8	2.6	2.4
21	2.4	3.7	20	14	9.7	10	23	14	140	4.4	2.6	2.4
22	2.4	4.0	17	15	12	10	19	8.9	84	4.1	2.2	2.4
23	2.2	4.2	15	14	30	9.0	17	6.2	61	3.8	2.1	2.2
24	2.2	4.1	13	13	12	8.6	14	4.9	47	3.7	2.1	4.1
25	2.2	4.3	12	12	17	8.1	12	4.2	37	3.8	2.0	519
26	2.2	4.0	12	12	19	7.3	12	3.9	31	3.8	2.0	329
27	2.4	3.8	12	15	13	7.0	11	9.9	26	3.6	2.1	45
28	2.4	3.7	11	14	15	6.4	9.8	69	22	3.4	2.1	14
29	2.3	3.6	9.5	13	11	7.0	8.5	13	147	3.4	2.1	7.6
30	5.6	3.6	8.6	13	---	7.7	7.6	7.2	72	3.4	2.1	5.0
31	3.2	---	9.9	13	---	8.9	---	5.4	---	3.6	2.1	---
TOTAL	78.3	100.0	278.0	402.8	365.8	392.7	1061.7	299.3	12782.0	253.2	85.6	974.6
MEAN	2.53	3.33	8.97	13.0	12.6	12.7	35.4	9.65	426	8.17	2.76	32.5
MAX	5.6	4.3	30	19	30	106	262	69	5960	30	3.5	519
MIN	2.2	2.3	3.0	8.8	9.5	6.4	6.7	2.3	4.4	3.4	2.0	2.0
AC-FT	155	198	551	799	726	779	2110	594	25350	502	170	1930

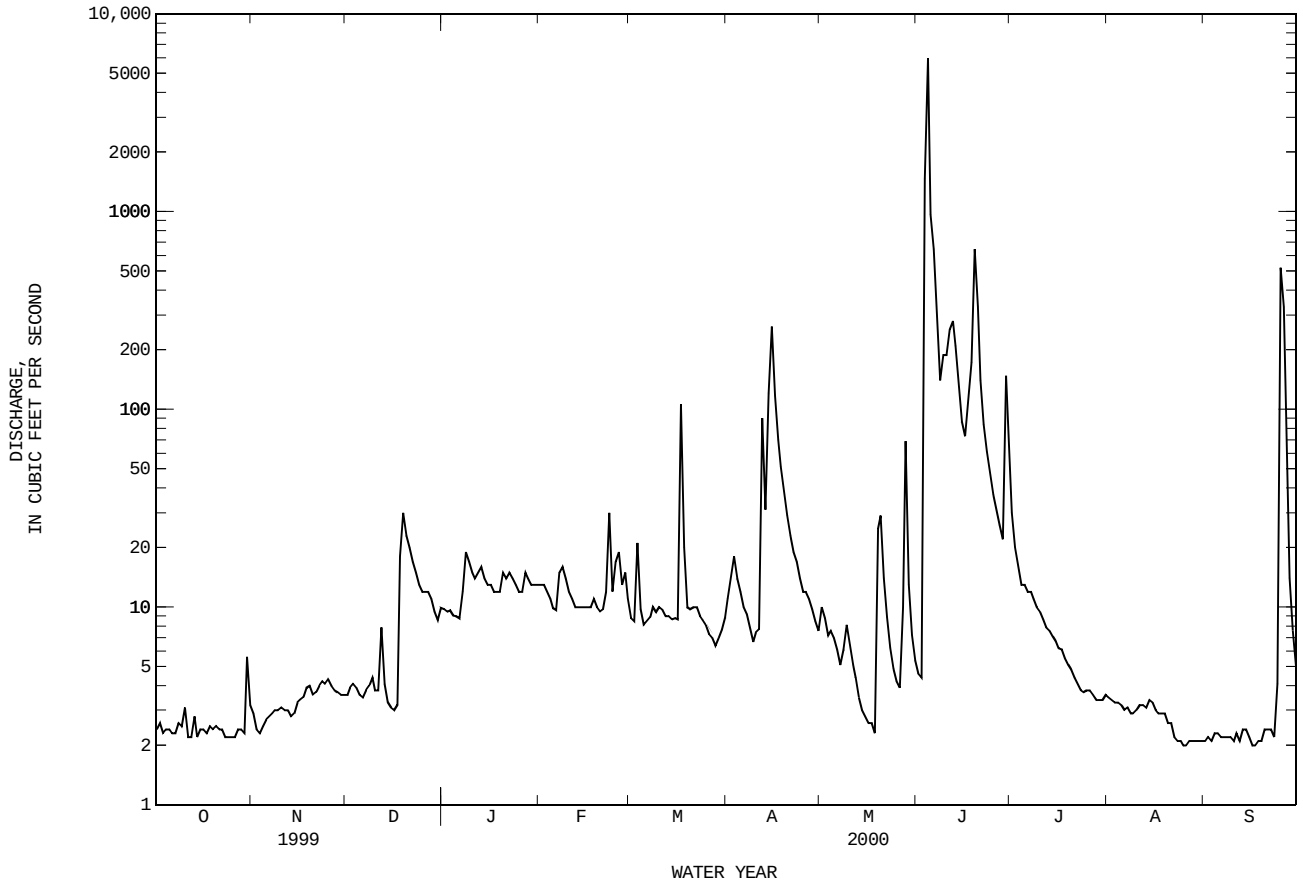
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000z, BY WATER YEAR (WY)

MEAN	116	132	243	204	377	417	456	723	558	318	187	164
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000z	
ANNUAL TOTAL	16138.7		17074.0			
ANNUAL MEAN	44.2		46.7		324	
HIGHEST ANNUAL MEAN					1758	1992
LOWEST ANNUAL MEAN					6.22	1978
HIGHEST DAILY MEAN	986	Apr 4	5960	Jun 4	49100	Dec 21 1991
LOWEST DAILY MEAN	1.6	Sep 5	2.0	Aug 25	.00	Jul 21 1971
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 1	2.1	Aug 23	.00	Aug 13 1984
INSTANTANEOUS PEAK FLOW			7530	Jun 4	68000	Dec 21 1991
INSTANTANEOUS PEAK STAGE			24.11	Jun 4	35.00	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	32010		33870		234800	
10 PERCENT EXCEEDS	83		38		846	
50 PERCENT EXCEEDS	31		7.6		44	
90 PERCENT EXCEEDS	2.2		2.3		2.2	

z Period of regulated streamflow.



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 mi^2.

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 fair except those for daily discharges below 1.0 ft^3/s, which are poor. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 3	1645	14,000	24.05	Sep 24	2400	3,850	10.90

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

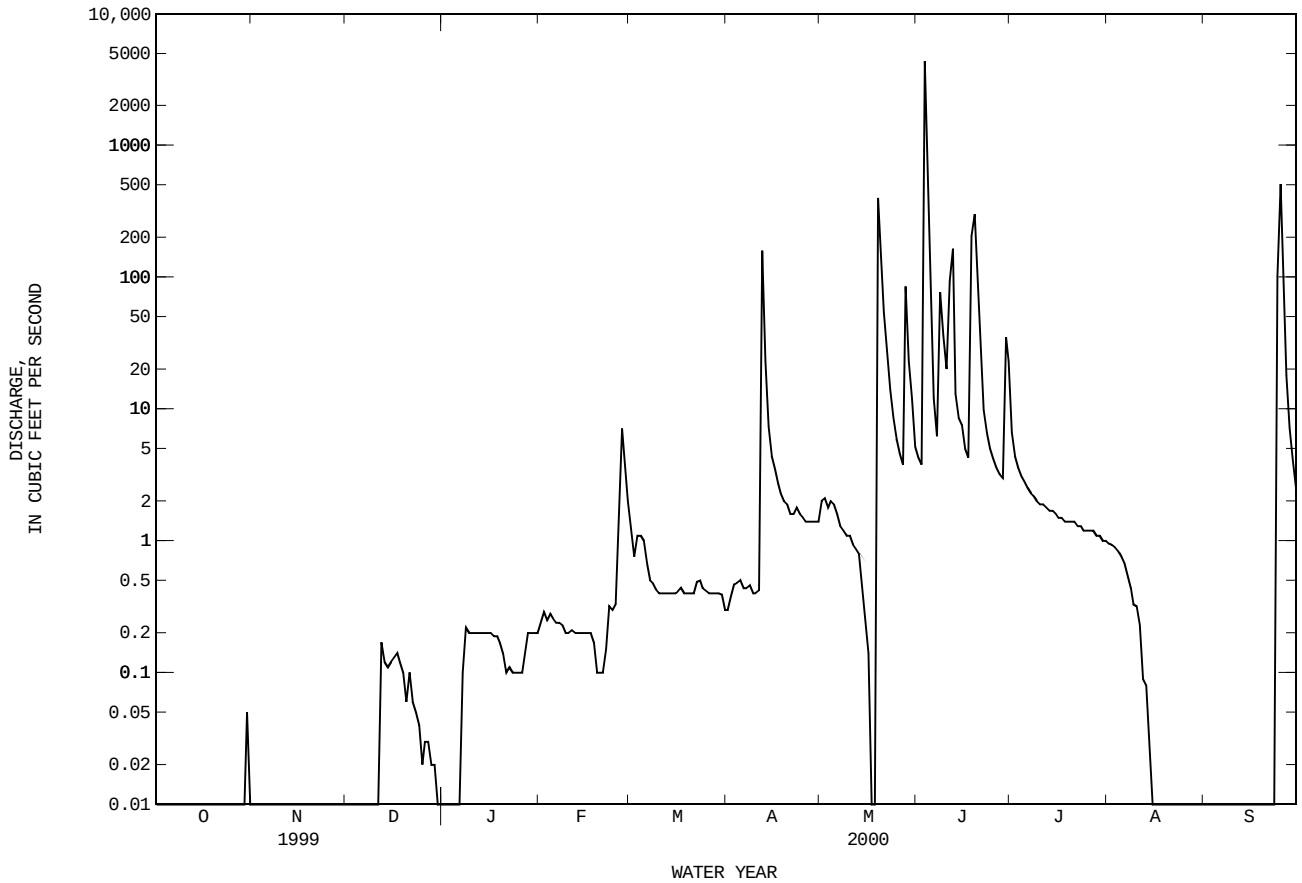
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.24	1.2	.30	2.0	4.3	6.6	.96	.00
2	.00	.00	.00	.00	.29	.76	.38	2.1	3.8	4.4	.94	.00
3	.00	.00	.00	.00	.25	1.1	.47	1.8	4350	3.6	.90	.00
4	.00	.00	.00	.00	.28	1.1	.48	2.0	319	3.1	.84	.00
5	.00	.00	.00	.00	.26	1.0	.50	1.9	56	2.8	.77	.00
6	.00	.00	.00	.00	.24	.68	.44	1.6	12	2.5	.68	.00
7	.00	.00	.00	.10	.24	.50	.44	1.3	6.2	2.3	.55	.00
8	.00	.00	.00	.22	.23	.48	.46	1.2	77	2.2	.44	.00
9	.00	.00	.01	.20	.20	.43	.40	1.1	36	2.0	.33	.00
10	.00	.00	.00	.20	.20	.40	.40	1.1	20	1.9	.32	.00
11	.00	.00	.00	.20	.21	.40	.42	.94	94	1.9	.23	.00
12	.00	.00	.17	.20	.20	.40	158	.88	165	1.8	.09	.00
13	.00	.00	.12	.20	.20	.40	23	.80	13	1.7	.08	.00
14	.00	.00	.11	.20	.20	.40	7.3	.41	8.6	1.7	.03	.00
15	.00	.00	.12	.20	.20	.40	4.4	.23	7.6	1.6	.00	.00
16	.00	.00	.13	.20	.20	.41	3.5	.14	5.0	1.5	.00	.00
17	.00	.00	.14	.19	.20	.44	2.7	.00	4.3	1.5	.00	.00
18	.00	.00	.12	.19	.17	.40	2.3	.00	206	1.4	.00	.00
19	.00	.00	.10	.17	.10	.40	2.0	397	301	1.4	.00	.00
20	.00	.00	.06	.14	.10	.40	1.9	139	92	1.4	.00	.00
21	.00	.00	.10	.10	.10	.40	1.6	54	29	1.4	.00	.00
22	.00	.00	.06	.11	.15	.49	1.6	27	9.8	1.3	.00	.00
23	.00	.00	.05	.10	.32	.50	1.8	14	6.6	1.3	.00	.00
24	.00	.00	.04	.10	.30	.44	1.6	8.6	5.0	1.2	.00	101
25	.00	.00	.02	.10	.33	.42	1.5	5.9	4.2	1.2	.00	509
26	.00	.00	.03	.10	1.5	.40	1.4	4.6	3.6	1.2	.00	54
27	.00	.00	.03	.15	7.1	.40	1.4	3.8	3.2	1.2	.00	18
28	.00	.00	.02	.20	3.6	.40	1.4	85	3.0	1.1	.00	7.2
29	.00	.00	.02	.20	2.0	.40	1.4	23	35	1.1	.00	4.1
30	.05	.00	.00	.20	---	.39	1.4	12	23	1.0	.00	2.5
31	.00	---	.00	.20	---	.30	---	5.2	---	1.0	.00	---
TOTAL	0.05	0.00	1.45	4.17	19.61	16.24	224.89	798.60	5903.2	60.3	7.16	695.80
MEAN	.002	.000	.047	.13	.68	.52	7.50	25.8	197	1.95	.23	23.2
MAX	.05	.00	.17	.22	7.1	1.2	158	397	4350	6.6	.96	509
MIN	.00	.00	.00	.00	.10	.30	.30	.00	3.0	1.0	.00	.00
AC-FT	.1	.00	2.9	8.3	39	32	446	1580	11710	120	14	1380
CFSM	.00	.00	.00	.00	.00	.00	.02	.06	.43	.00	.00	.05
IN.	.00	.00	.00	.00	.00	.00	.02	.07	.48	.00	.00	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	77.7	37.0	83.7	74.6	154	141	141	221	116	34.6	18.9	33.1
MAX	1416	425	1894	767	2170	1274	1033	2116	702	399	240	433
(WY)	1960	1966	1992	1961	1997	1997	1957	1965	1987	1976	1966	1970
MIN	.000	.000	.000	.000	.000	.010	.000	.76	.073	.000	.000	.000
(WY)	1952	1952	1952	1952	1952	1952	1956	1978	1956	1954	1951	1952

08101000 COWHOUSE CREEK AT PIDCOKE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	15758.46		7731.47			
ANNUAL MEAN	43.2		21.1		94.2	
HIGHEST ANNUAL MEAN					482	1992
LOWEST ANNUAL MEAN					1.18	1978
HIGHEST DAILY MEAN	1700	Apr 3	4350	Jun 3	35200	Oct 4 1959
LOWEST DAILY MEAN	.00	Aug 13	.00	Oct 1	.00	May 21 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 13	.00	Oct 1	.00	Jul 6 1951
INSTANTANEOUS PEAK FLOW			14000	Jun 3	110000	Dec 20 1991
INSTANTANEOUS PEAK STAGE			24.05	Jun 3	44.30	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	31260		15340		68220	
ANNUAL RUNOFF (CFSM)	.095		.046		.21	
ANNUAL RUNOFF (INCHES)	1.29		.63		2.81	
10 PERCENT EXCEEDS	78		7.1		146	
50 PERCENT EXCEEDS	6.0		.22		6.2	
90 PERCENT EXCEEDS	.00		.00		.00	



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.--3,531 mi^2.

PERIOD OF RECORD.--Mar 1954 to current year. Prior to Oct 1970, published as "Belton Reservoir".

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). 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 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 broome-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.--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, 409,400 acre-ft, Jun 22, 23, elevation, 591.92 ft; minimum contents, 368,200 acre-ft, Sep 12, elevation, 588.34 ft.

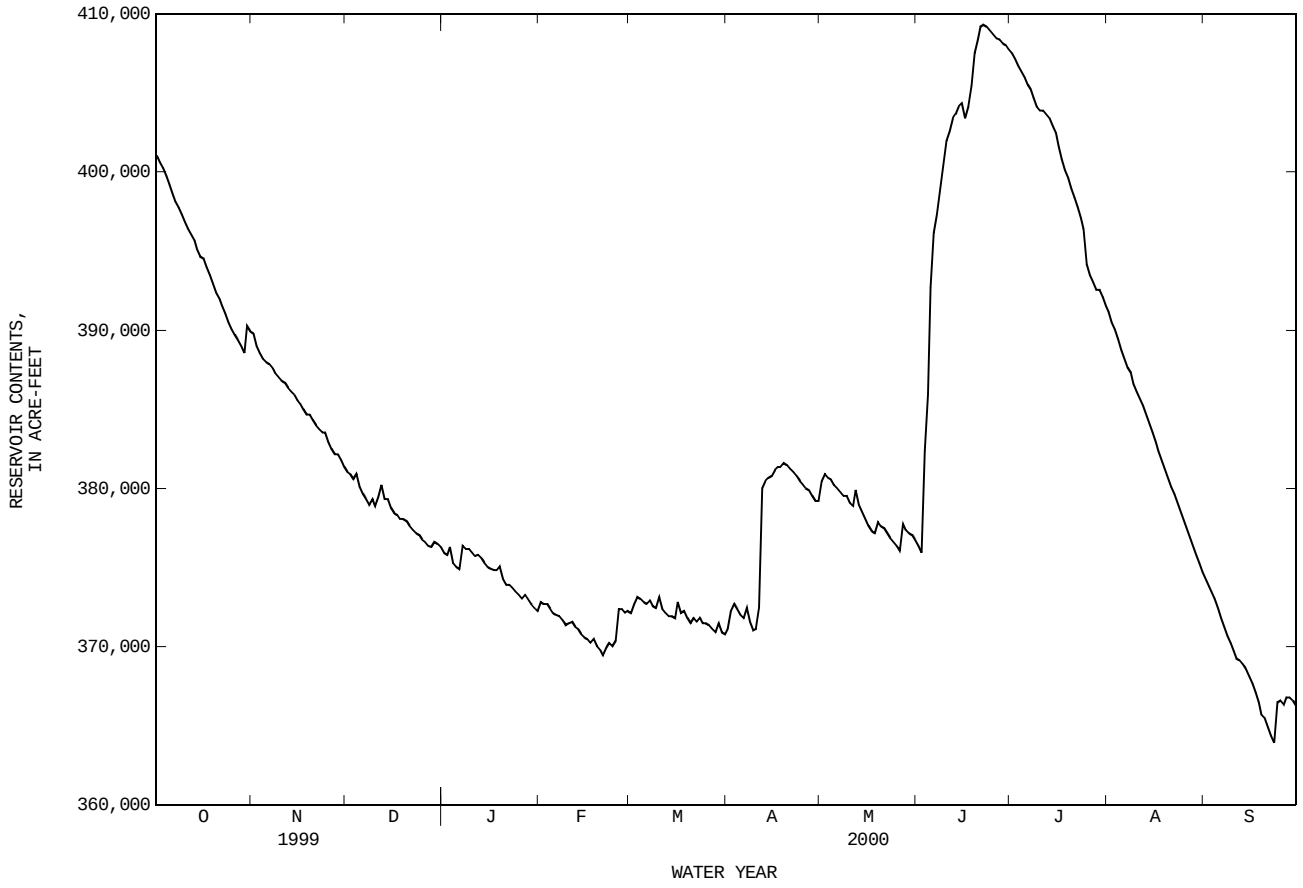
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401100	389800	381000	376000	372800	372100	371100	380500	376400	407500	391200	374300
2	400600	389000	380900	375800	372700	372700	372300	380900	376000	407200	390500	373900
3	400300	388600	380600	376300	372700	373100	372700	380700	382400	406700	390000	373500
4	399800	388200	380900	375300	372400	373000	372400	380600	385900	406400	389500	373000
5	399200	388000	380100	375100	372100	372800	372000	380200	392700	406000	388800	372500
6	398700	387900	379700	374900	372000	372700	371800	380000	396200	405500	388200	371800
7	398200	387600	379300	376400	371900	372900	372500	379800	397300	405200	387600	371200
8	397800	387300	379000	376200	371700	372600	371600	379600	398700	404700	387300	370700
9	397300	387100	379300	376200	371400	372500	371000	379600	400300	404100	386600	370200
10	396900	386800	378900	376000	371500	373100	371100	379100	402000	403900	386200	369700
11	396400	386700	379400	375700	371600	372400	372500	378900	402600	403900	385700	369200
12	396100	386400	380200	375800	371200	372100	380000	379900	403400	403700	385200	369100
13	395700	386200	379300	375600	371100	371900	380500	379000	403700	403400	384700	368900
14	395100	385900	379300	375300	370800	371900	380700	378500	404100	403000	384100	368600
15	394700	385600	378800	375100	370600	371800	380800	378100	404400	402500	383500	368100
16	394500	385400	378400	374900	370500	372800	381100	377600	403400	401700	383000	367700
17	394000	385000	378300	374800	370200	372100	381400	377300	404100	400800	382400	367100
18	393500	384700	378100	374800	370500	372300	381400	377200	405400	400100	381800	366500
19	392900	384700	378100	375100	370000	371800	381600	377900	407500	399700	381300	365700
20	392400	384300	378000	374300	369800	371500	381500	377600	408400	399000	380700	365500
21	392000	384000	377600	373900	369500	371800	381300	377500	409200	398400	380100	364900
22	391500	383800	377400	373900	369900	371600	381000	377200	409300	397800	379700	364400
23	391100	383500	377200	373700	370200	371800	380800	376800	409200	397100	379100	363900
24	390500	383500	377100	373500	370000	371500	380500	376600	409000	396400	378500	366500
25	390000	383000	376700	373300	370400	371500	380200	376400	408700	394200	378100	366600
26	389700	382500	376600	373000	372400	371400	380000	376100	408500	393500	377500	366400
27	389400	382200	376400	373300	372400	371100	379900	377800	408400	393000	377000	366800
28	389000	382200	376300	373000	372100	370900	379600	377400	408100	392600	376400	366800
29	388600	381800	376600	372700	372300	371500	379200	377200	408000	392600	375800	366600
30	390300	381400	376500	372500	---	370900	379200	377100	407800	392100	375300	366300
31	389900	---	376300	372300	---	370800	---	376700	---	391500	374700	---
MAX	401100	389800	381000	376400	372800	373100	381600	380900	409300	407500	391200	374300
MIN	388600	381400	376300	372300	369500	370800	371000	376100	376000	391500	374700	363900
(+)	590.25	589.51	589.06	588.71	588.71	588.57	589.31	589.09	591.78	590.39	588.92	588.17
(@)	-11900	-8500	-5100	-4000	0	-1500	+8400	-2500	+31100	-16300	-16800	-8400

CAL YR 1999 MAX 450000 MIN 376300 (@) -66300
WTR YR 2000 MAX 409300 MIN 363900 (@) -35500

(+) 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

LOCATION.--Lat 31°04'12", long 97°26'28", Bell County, Hydrologic Unit 12070201, on left bank 1,400 ft upstream from bridge on Farm Road 817, 2,000 ft upstream from concrete dam, 1.0 mi upstream from bridge on Interstate Highway 35 and U.S. Highway 81, 1.6 mi northeast of Belton, 3.2 mi downstream from Belton Dam, 5.2 mi upstream from Nolan Creek, and 13.1 mi upstream from mouth.

DRAINAGE AREA.--3,542 mi^2.

PERIOD OF RECORD.--Oct 1923 to current year.
Water-quality records.--Chemical data: Mar 1961 to Aug 1964, Jan 1994 to Aug 1998. Biochemical data: Mar 1961 to Aug 1964, Jan 1994 to Aug 1998. Water temperature: Mar 1957 to Oct 1972.

REVISED RECORDS.--WSP 1442: 1925(M), 1935(M), 1936, 1938(M), 1941-42(M), 1944-45(M). WSP 1712: 1937(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 476.68 ft above sea level. Prior to May 21, 1931, nonrecording gage. Satellite telemeter at station.

REMARKS.--Records good. Since Mar 8, 1954, at least 10% of contributing drainage area has been regulated by Belton Lake (station 08102000, conservation pool storage 434,500 acre-ft). The city of Temple diverts water from the pool at gage and returns wastewater effluent to Little Elm Creek downstream from station. The Brazos River Authority returns wastewater effluent to the Leon River downstream from station for their Temple-Belton plant. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--30 years (water years 1924-53) prior to regulation by Belton Lake, 659 ft^3/s (477,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-53).--Maximum discharge, 56,500 ft^3/s Apr 22, 1945 (gage height, 24.41 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec 1913 reached a stage of 25 ft, and a flood in Sep 1921 reached a stage of 21 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	31	33	27	28	24	22	51	22	20	38	28
2	61	29	31	34	24	27	26	47	19	20	38	33
3	51	31	29	27	26	24	30	37	27	18	28	54
4	52	31	21	23	29	26	23	32	31	20	33	41
5	57	37	27	31	24	31	23	45	32	20	39	41
6	61	26	28	28	22	26	26	37	33	e5.6	27	39
7	64	29	28	28	25	24	26	36	28	5.2	34	36
8	61	29	28	29	29	27	21	32	26	4.5	41	47
9	62	31	29	33	25	29	22	29	35	e3.2	37	54
10	61	28	34	28	24	25	23	30	41	2.4	37	40
11	64	23	24	31	26	25	26	26	33	2.2	33	33
12	63	28	28	30	31	24	111	37	26	2.5	37	48
13	57	32	33	28	26	24	40	41	41	2.3	27	56
14	68	24	28	27	25	24	36	41	30	35	34	62
15	68	31	26	33	24	24	41	37	24	51	43	56
16	68	30	27	28	25	26	39	30	26	54	36	64
17	69	28	32	27	25	32	35	39	24	46	28	52
18	76	25	26	27	25	29	36	33	26	43	27	47
19	75	25	27	28	25	24	38	30	36	48	31	50
20	78	30	31	26	25	24	37	41	31	44	30	29
21	78	32	27	25	25	23	37	50	28	42	34	27
22	79	29	26	25	25	25	33	27	23	43	34	36
23	72	25	26	25	31	29	33	24	25	44	32	39
24	75	35	29	27	26	24	32	34	25	28	27	59
25	50	24	28	30	25	24	27	25	19	57	28	46
26	24	31	31	25	32	23	27	21	18	59	27	31
27	23	28	31	24	32	23	29	30	23	30	27	40
28	22	28	26	28	26	23	36	44	14	27	30	31
29	25	26	26	26	24	24	39	27	22	28	42	32
30	32	24	26	24	---	24	29	29	24	41	32	41
31	38	---	26	24	---	25	---	29	---	38	28	---
TOTAL	1788	860	872	856	759	786	1003	1071	812	883.9	1019	1292
MEAN	57.7	28.7	28.1	27.6	26.2	25.4	33.4	34.5	27.1	28.5	32.9	43.1
MAX	79	37	34	34	32	32	111	51	41	59	43	64
MIN	22	23	21	23	22	23	21	21	14	2.2	27	27
AC-FT	3550	1710	1730	1700	1510	1560	1990	2120	1610	1750	2020	2560

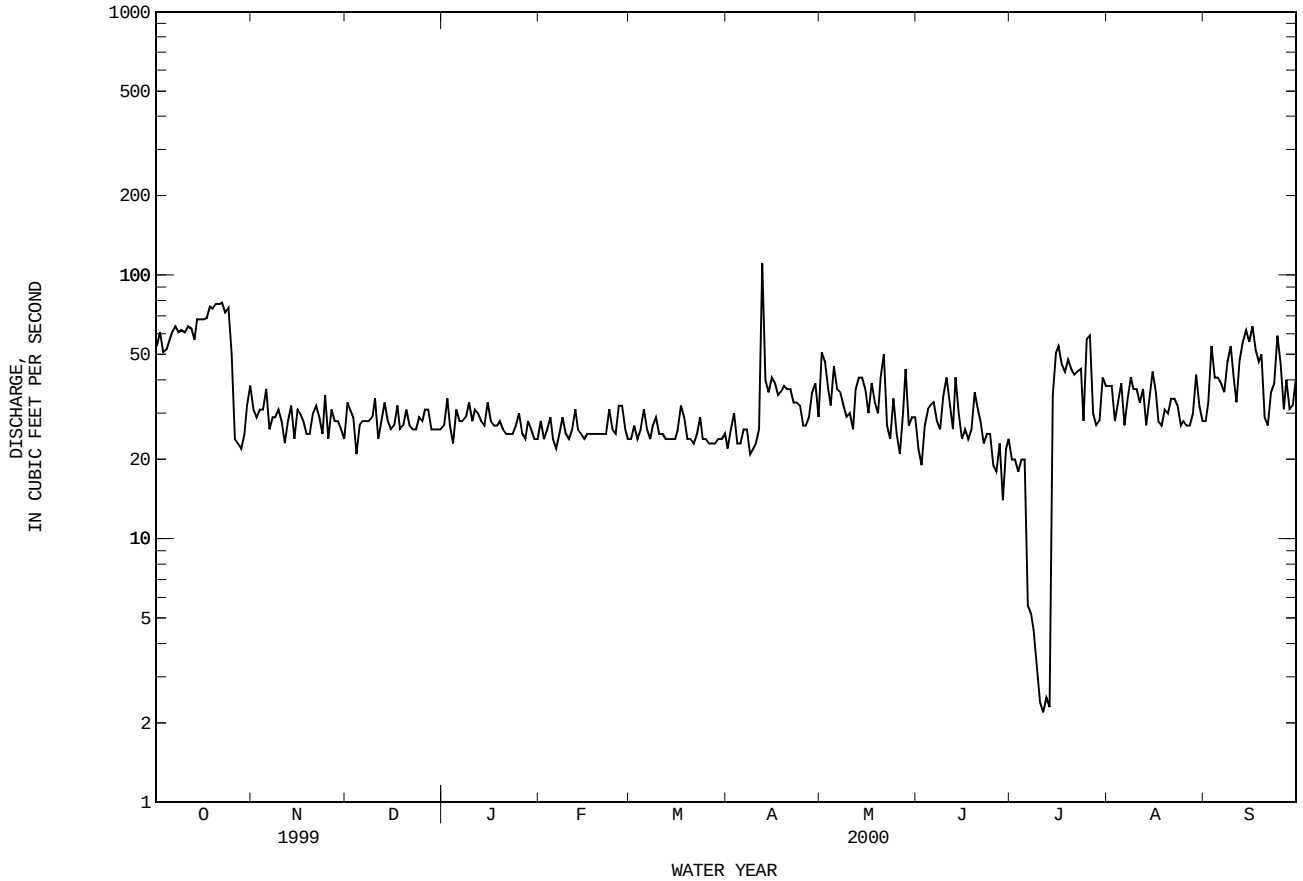
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000z, BY WATER YEAR (WY)

MEAN	327	300	303	495	464	830	792	1053	1102	791	320	178
MAX	3918	3058	1924	5066	2902	6621	5170	4560	6002	6287	3084	1657
(WY)	1960	1960	1961	1992	1961	1997	1992	1990	1957	1957	1992	1986
MIN	2.79	1.07	.67	2.51	2.19	2.56	1.70	.87	.053	.26	1.86	.25
(WY)	1969	1955	1955	1955	1981	1955	1954	1954	1954	1954	1954	1954

08102500 LEON RIVER NEAR BELTON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1954 - 2000z		
ANNUAL TOTAL	47147			12001.9					
ANNUAL MEAN	129			32.8			580		
HIGHEST ANNUAL MEAN							3067		1992
LOWEST ANNUAL MEAN							4.71		1955
HIGHEST DAILY MEAN	1030	Feb	2	111	Apr	12	10200	Mar 6	1992
LOWEST DAILY MEAN	21	Dec	4	2.2	Jul	11	.00	Oct 1	1953
ANNUAL SEVEN-DAY MINIMUM	27	Aug	6	3.2	Jul	7	.00	Oct 1	1953
INSTANTANEOUS PEAK FLOW				321	Apr	12	10200	Mar 6	1992
INSTANTANEOUS PEAK STAGE				4.39	Apr	12	9.74	Mar 6	1992
ANNUAL RUNOFF (AC-FT)	93520			23810			420300		
10 PERCENT EXCEEDS	382			51			2110		
50 PERCENT EXCEEDS	52			29			42		
90 PERCENT EXCEEDS	28			23			4.9		

e Estimated
z Period of regulated streamflow.



08103800 LAMPASAS RIVER NEAR KEMPNER, TX

LOCATION.--Lat 31°04'54", long 98°00'59", Lampasas County, Hydrologic Unit 12070203, on left bank 800 ft upstream from centerline of U.S. Highway 190, 0.6 mi upstream from Mesquite Creek, 0.8 mi west of Kempner, 0.9 mi downstream from Sulphur Creek, and 72.3 mi upstream from mouth.

DRAINAGE AREA.--818 mi^2.

PERIOD OF RECORD.--Oct 1962 to current year.
Water-quality records.--Chemical data: Mar to Jun 1964, Oct 1980 to Sep 1982, Oct 1987 to Aug 1990. Biochemical data: Oct 1980 to Sep 1982, Oct 1987 to Aug 1990.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 828.38 ft above sea level. Prior to Aug 4, 1967, at site 800 ft downstream at present datum. Satellite telemeter at station.

REMARKS.--Records good. Since water year 1974, at least 10% of contributing drainage area has been regulated by upstream reservoirs. Flow is affected at times by discharge from the flood detention pools of 13 floodwater-retarding structures with a combined detention capacity of 38,570 acre-ft. These structures control runoff from 131 mi^2 in the Sulphur and Bennett Creeks drainage basins. There are many small diversions above station for irrigation and for municipal supply. The city of Lampasas diverts water upstream from this station and returns wastewater effluent to Sulphur Creek upstream from station. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--11 years (water years 1963-73) prior to regulation, 151 ft^3/s (109,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1963-73).--Maximum discharge, 71,000 ft^3/s, May 16, 1965 (gage height, 32.98 ft), minimum daily, 1.4 ft^3/s, Jul 17, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1871, occurred in Sep 1873 (stage about 45 ft). Flood of May 13, 1957, reached a stage of 37 ft, and flood of Oct 4, 1959, reached a stage of 34 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	27	20	25	25	21	23	16	e18	10	8.9
2	20	22	28	21	40	24	24	20	14	e16	9.6	8.6
3	19	21	28	20	23	22	34	17	57	14	8.6	9.7
4	18	22	29	18	20	21	23	16	95	13	8.1	9.1
5	18	22	28	18	19	21	22	14	38	12	8.1	9.4
6	18	22	26	19	19	21	21	14	22	12	8.1	8.6
7	17	21	27	22	19	22	20	13	16	12	8.3	8.3
8	16	21	28	32	19	25	18	12	16	12	7.9	9.1
9	17	21	33	22	18	32	19	11	25	12	7.7	10
10	17	17	26	19	19	27	20	11	24	12	8.1	13
11	17	21	26	18	18	23	22	12	27	12	8.5	10
12	16	23	33	19	18	21	3110	11	16	11	8.4	8.6
13	17	24	30	18	18	20	154	16	24	11	9.0	13
14	17	24	33	17	17	21	57	12	17	10	8.4	18
15	18	24	25	18	18	21	36	14	16	10	8.5	12
16	18	24	24	18	19	21	28	16	15	10	9.1	12
17	27	26	24	18	20	20	23	15	14	9.9	8.3	11
18	20	27	23	15	19	21	21	15	504	9.5	7.7	11
19	19	27	22	18	18	20	20	193	732	9.4	7.7	11
20	18	26	22	18	17	19	19	166	109	9.5	7.7	11
21	23	27	23	18	18	20	17	69	55	9.2	7.9	12
22	18	28	22	19	21	21	17	34	40	10	7.4	12
23	18	30	23	19	34	20	16	23	31	10	8.0	10
24	18	27	22	19	28	21	16	19	25	11	8.4	11
25	18	29	22	19	23	21	15	16	23	10	8.6	16
26	18	27	22	18	77	21	14	15	21	10	8.2	11
27	18	27	21	23	77	20	14	15	19	10	8.5	11
28	19	27	20	25	36	21	13	19	20	9.9	8.2	11
29	19	27	20	20	29	45	13	21	16	11	8.6	11
30	35	26	20	19	---	22	14	18	20	12	7.9	10
31	29	---	19	19	---	21	---	16	---	9.0	7.7	---
TOTAL	599	732	776	606	746	700	3861	886	2067	347.4	257.2	327.3
MEAN	19.3	24.4	25.0	19.5	25.7	22.6	129	28.6	68.9	11.2	8.30	10.9
MAX	35	30	33	32	77	45	3110	193	732	18	10	18
MIN	16	17	19	15	17	19	13	11	14	9.0	7.4	8.3
AC-FT	1190	1450	1540	1200	1480	1390	7660	1760	4100	689	510	649

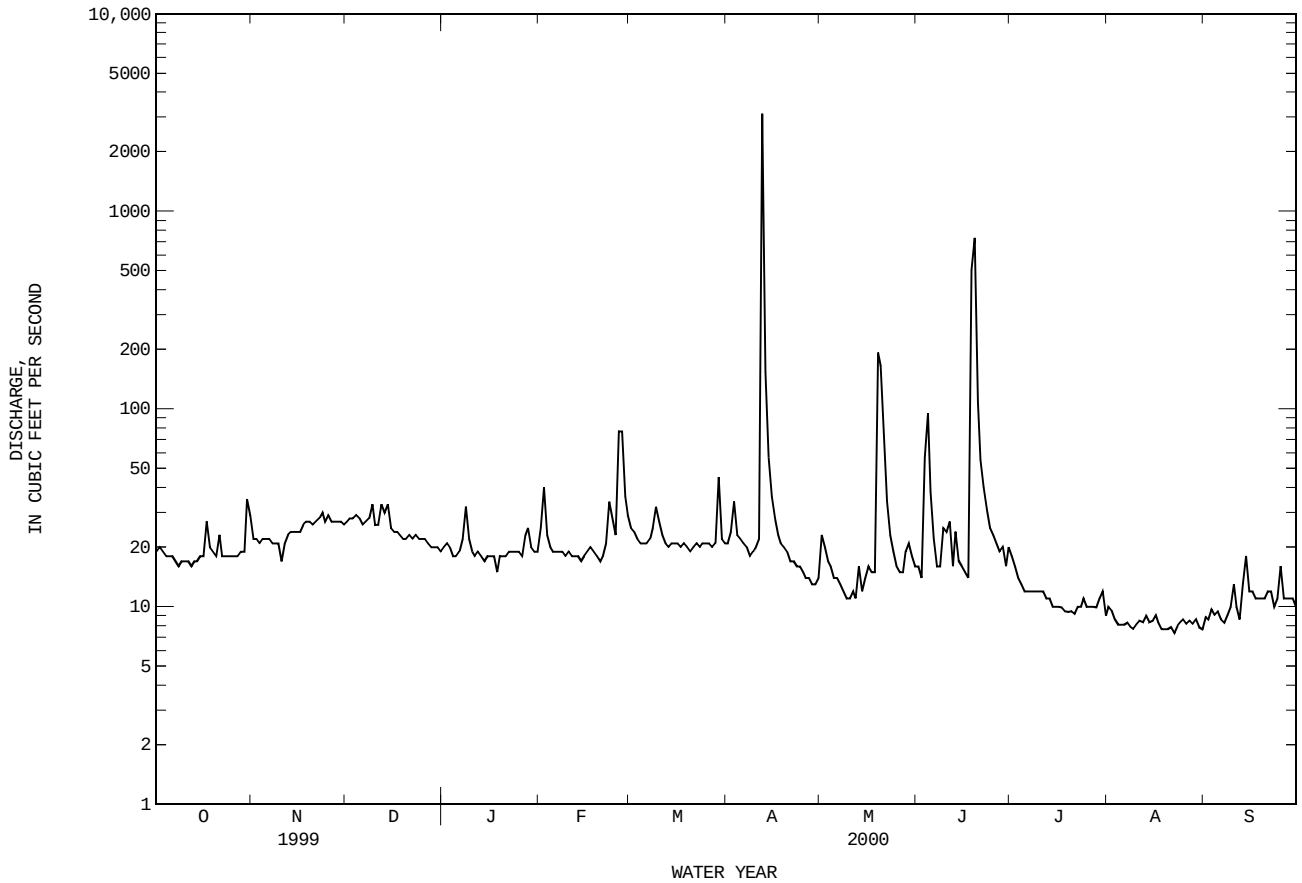
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000z, BY WATER YEAR (WY)

MEAN	73.8	57.8	187	110	337	278	221	239	313	64.3	40.4	40.5
MAX	453	398	3193	1107	3526	1559	1106	783	1716	365	206	171
(WY)	1986	1987	1992	1992	1992	1997	1977	1997	1987	1976	1979	1974
MIN	10.7	11.0	14.9	10.3	10.9	13.5	8.86	6.57	5.98	6.28	7.65	8.12
(WY)	1996	1990	1984	1984	1984	1984	1984	1984	1984	1978	1984	1984

08103800 LAMPASAS RIVER NEAR KEMPNER, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000z	
ANNUAL TOTAL	44336		11904.9			
ANNUAL MEAN	121		32.5		162	
HIGHEST ANNUAL MEAN					949	1992
LOWEST ANNUAL MEAN					10.7	1984
HIGHEST DAILY MEAN	2790	Mar 18	3110	Apr 12	42500	Dec 21 1991
LOWEST DAILY MEAN	16	Aug 17	7.4	Aug 22	2.0	Jul 10 1984
ANNUAL SEVEN-DAY MINIMUM	17	Oct 7	7.8	Aug 17	2.9	Jul 9 1984
INSTANTANEOUS PEAK FLOW			14000	Apr 12	78000	Dec 20 1991
INSTANTANEOUS PEAK STAGE			13.79	Apr 12	35.00	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	87940		23610		117600	
10 PERCENT EXCEEDS	228		28		297	
50 PERCENT EXCEEDS	56		19		31	
90 PERCENT EXCEEDS	18		9.1		12	

e Estimated
z Period of regulated streamflow.



08103900 SOUTH FORK ROCKY CREEK NEAR BRIGGS, TX

LOCATION.--Lat 30°54′41", long 98°02′12", Burnet County, Hydrologic Unit 12070203, at upstream side of bridge on Ranch Road 963, 6.0 mi above confluence with North Fork Rocky Creek, 7.0 mi west of Briggs, and 12.9 mi above mouth of Rocky Creek.

DRAINAGE AREA.--33.3 mi^2.

PERIOD OF RECORD.--Apr 1963 to current year.
Water-quality records.--Chemical data: Oct 1961 to Jan 1964, Jan 1968 to Aug 1996. Biochemical data: Jan 1968 to Aug 1996. Radiochemical data: Jan 1968 to Aug 1996. Pesticide data: Jul 1971 to Jul 1982. Sediment data: May to Jun 1963.

REVISED RECORDS.--WRD TX-74-1: 1972-73(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 955.8 ft above sea level. Satellite telemeter at station.

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

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

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

No peak greater than base discharge.

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

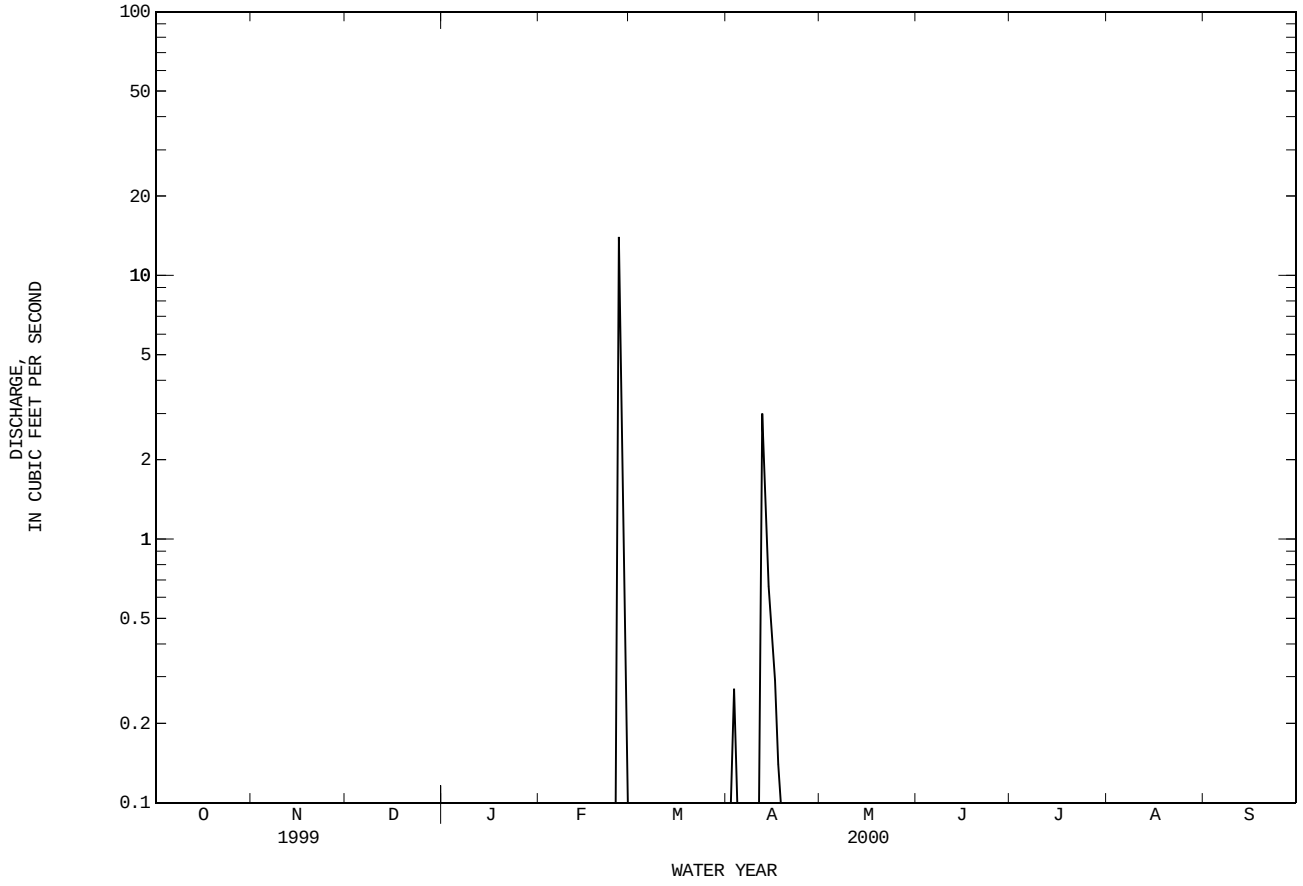
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	3.0	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.66	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.44	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	14	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	15.49	0.00	6.40	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.53	.000	.21	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	14	.00	3.0	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	31	.00	13	.00	.00	.00	.00	.00
CFSM	.00	.00	.00	.00	.02	.00	.01	.00	.00	.00	.00	.00
IN.	.00	.00	.00	.00	.02	.00	.01	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	3.96	4.09	10.0	10.7	18.8	18.8	13.4	21.3	19.0	4.46	1.98	3.21
MAX	34.0	55.3	103	81.9	189	93.1	78.4	118	106	43.9	51.2	69.6
(WY)	1975	1975	1992	1968	1992	1992	1977	1965	1981	1976	1974	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1968	1968	1971	1971	1971	1971	1971	1978	1967	1963	1963	1965

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	1558.02		21.89			
ANNUAL MEAN	4.27		.060		10.9	
HIGHEST ANNUAL MEAN					49.2	1992
LOWEST ANNUAL MEAN					.036	1978
HIGHEST DAILY MEAN	62	Mar 18	14	Feb 26	1510	Jun 19 1976
LOWEST DAILY MEAN	.00	Jul 25	.00	Oct 1	.00	May 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 25	.00	Oct 1	.00	May 9 1963
INSTANTANEOUS PEAK FLOW			87	Feb 26	31200	Jun 19 1976
INSTANTANEOUS PEAK STAGE			2.56	Feb 26	22.70	Jun 19 1976
ANNUAL RUNOFF (AC-FT)	3090		43		7860	
ANNUAL RUNOFF (CFSM)	.13		.002		.33	
ANNUAL RUNOFF (INCHES)	1.74		.02		4.43	
10 PERCENT EXCEEDS	13		.00		25	
50 PERCENT EXCEEDS	1.2		.00		.61	
90 PERCENT EXCEEDS	.00		.00		.00	

08103900 SOUTH FORK ROCKY CREEK NEAR BRIGGS, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Sep 1966 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.--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 Sep 2, 1966, to Feb 19, 1968. Deliberate impoundment began Feb 19, 1968. 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.--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, 224,800 acre-ft, Jun 21, 22, 23, elevation, 621.80 ft; minimum contents, 203,600 acre-ft, Sep 24, elevation, 618.33 ft.

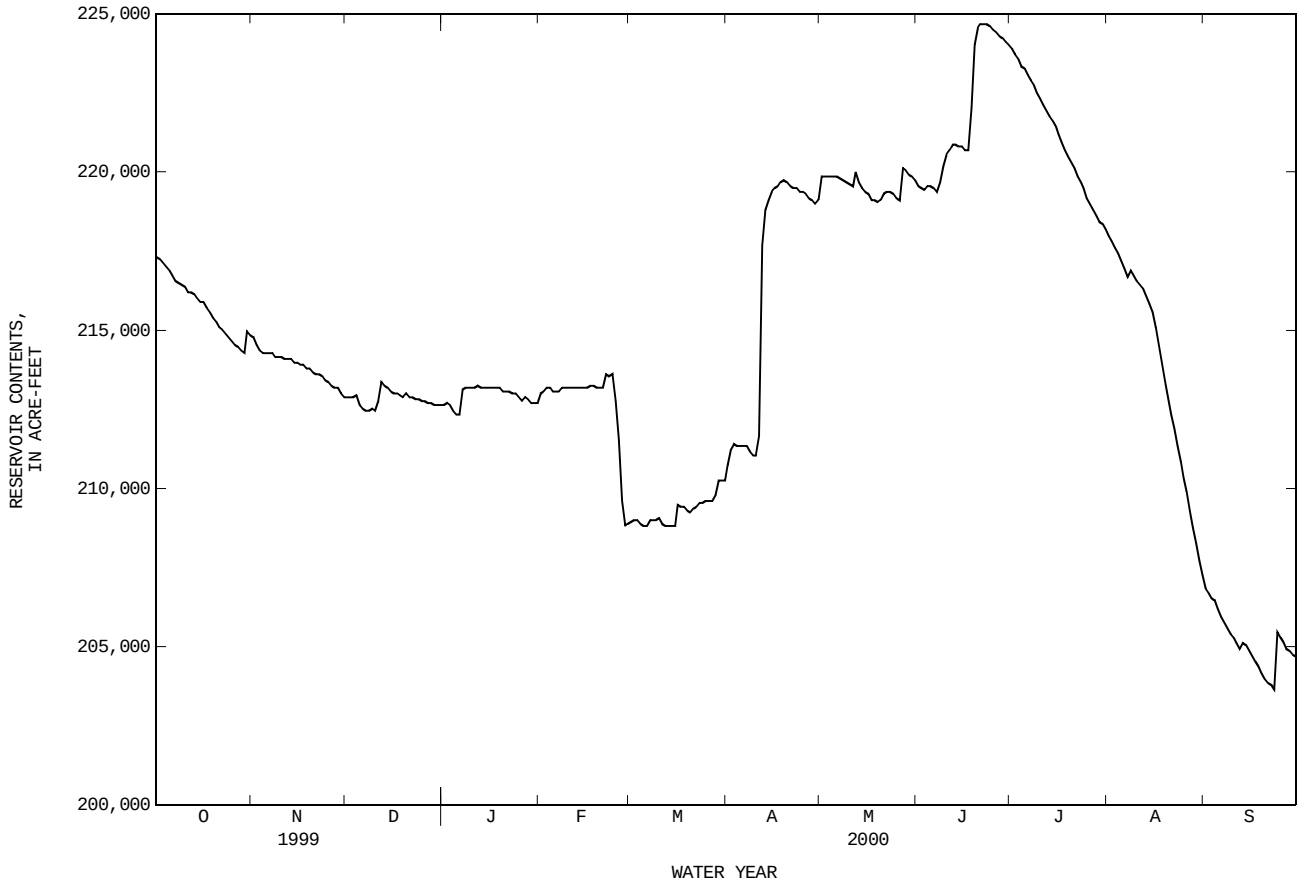
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217300	214800	212900	212600	213000	208900	210800	219900	219600	223900	218000	206800
2	217300	214500	212900	212700	213100	209000	211200	219900	219500	223700	217800	206700
3	217100	214400	212900	212600	213200	209000	211400	219900	219400	223600	217600	206500
4	217000	214300	212900	212500	213200	208900	211400	219900	219600	223300	217400	206500
5	216900	214300	212600	212300	213100	208800	211400	219900	219600	223300	217200	206200
6	216800	214300	212500	212300	213100	208800	211400	219900	219500	223100	216900	205900
7	216600	214300	212500	213100	213100	209000	211400	219800	219400	222900	216700	205800
8	216500	214200	212500	213200	213200	209000	211200	219800	219700	222800	216900	205600
9	216500	214200	212500	213200	213200	209000	211100	219700	220200	222500	216800	205400
10	216400	214200	212500	213200	213200	209100	211100	219600	220600	222300	216600	205300
11	216200	214100	212800	213200	213200	208900	211700	219600	220700	222100	216500	205100
12	216200	214100	213400	213200	213200	208800	217700	220000	220900	222000	216300	204900
13	216100	214100	213200	213200	213200	208800	218800	219700	220900	221800	216100	205100
14	216000	214000	213200	213200	213200	208800	219100	219500	220800	221600	215800	205100
15	215900	214000	213100	213200	213200	208800	219400	219400	220800	221400	215600	204900
16	215900	213900	213000	213200	213200	209500	219500	219300	220700	221200	215100	204700
17	215700	213900	213000	213200	213200	209400	219600	219100	220700	220900	214600	204500
18	215600	213800	212900	213200	213200	209400	219700	219100	222000	220700	214000	204300
19	215400	213800	212900	213200	213200	209300	219800	219100	224000	220500	213400	204200
20	215300	213700	213000	213100	213200	209200	219700	219100	224600	220300	212900	204000
21	215100	213600	212900	213100	213200	209400	219600	219300	224700	220100	212300	203900
22	215000	213600	212900	213100	213600	209400	219500	219400	224700	219900	211900	203800
23	214900	213600	212800	213000	213600	209500	219500	219400	224700	219700	211400	203600
24	214800	213400	212800	213000	213600	209500	219400	219300	224600	219500	210900	205500
25	214700	213400	212800	212900	212800	209600	219400	219200	224500	219200	210400	205300
26	214500	213200	212800	212800	211500	209600	219300	219100	224400	219000	209900	205100
27	214500	213200	212700	212900	209600	209600	219200	220100	224300	218800	209300	204900
28	214400	213200	212700	212800	208800	209800	219100	220100	224200	218600	208800	204900
29	214300	213000	212600	212700	208900	210300	219000	219900	224100	218400	208300	204800
30	215000	212900	212600	212700	---	210300	219100	219900	224000	218400	207700	204700
31	214800	---	212600	212700	---	210300	---	219800	---	218200	207300	---
MAX	217300	214800	213400	213200	213600	210300	219800	220100	224700	223900	218000	206800
MIN	214300	212900	212500	212300	208800	208800	210800	219100	219400	218200	207300	203600
(+)	620.20	619.89	619.84	619.86	619.22	619.46	620.90	621.01	621.68	620.75	618.96	618.52
(@)	-2700	-1900	-300	+100	-3800	+1400	+8800	+700	+4200	-5800	-10900	-2600

CAL YR 1999 MAX 240000 MIN 212500 (@) -15200
WTR YR 2000 MAX 224700 MIN 203600 (@) -12800

(+) 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

LOCATION.--Lat 31°00'06", long 97°29'32", Bell County, Hydrologic Unit 12070203, on left bank 22 ft upstream from upstream bridge of two bridges on Interstate Highway 35 and U.S. Highway 81, 3.5 mi downstream from Stillhouse Hollow Dam, 4.1 mi southwest of Belton, and 12.7 mi upstream from mouth.

DRAINAGE AREA.--1,321 mi^2.

PERIOD OF RECORD.--Feb 1963 to Sep 1989, Apr 1999 to current year.
Water-quality records.--Chemical data: Oct 1980 to Sep 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 476.58 ft above sea level. (From Texas Department of Highways and Public Transportation levels to a Santa Fe Railroad bench mark.) Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1967, at least 10% of contributing drainage area has been regulated by Stillhouse Hollow Lake (station 08104050, conservation pool storage 226,060 acre-ft). Many small diversions above station for irrigation and for municipal supply. No flow several days in Aug and Sep 1967. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--3 years (water years 1964-66), 368 ft^3/s (266,600 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1963-66).--Maximum discharge, 77,600 ft^3/s May 17, 1965 (gage height, 43.58 ft); minimum discharge, 0.2 ft^3/s, Oct 14, 15, 16, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1877, 45 ft Sep 1921, from information by local residents. Flood of May 1957 reached a stage of 44.4 ft (discharge, 83,500 ft^3/s).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	5.3	4.3	6.3	4.2	1.0	6.7	2.0	1.7	2.2	1.2	131
2	7.8	5.0	4.6	6.0	3.6	.93	8.3	1.7	1.7	2.1	1.2	5.3
3	7.7	5.2	5.2	5.8	3.4	.80	8.2	1.4	1.9	2.1	1.2	4.4
4	7.5	5.0	5.6	6.3	3.4	.71	6.3	1.4	2.2	1.9	1.1	4.2
5	7.5	5.1	5.8	6.1	4.0	.71	6.3	1.5	2.0	1.6	1.1	4.1
6	7.2	5.0	5.7	5.9	4.6	.71	6.3	1.4	1.9	1.6	1.1	3.9
7	6.9	4.8	5.6	7.9	5.0	.77	6.3	1.5	1.9	1.5	1.0	3.9
8	6.8	4.9	5.8	7.0	5.3	1.2	6.1	1.5	2.3	1.5	1.2	3.9
9	6.7	5.0	6.6	5.9	5.0	1.3	5.7	1.4	2.1	1.5	1.2	3.8
10	6.6	4.9	6.8	6.0	5.6	1.4	5.7	1.4	2.0	1.5	1.1	3.7
11	6.6	4.9	7.3	6.4	5.5	1.5	5.8	1.5	1.9	1.4	1.2	3.7
12	6.5	4.7	9.3	6.6	4.6	1.7	54	1.5	2.1	1.4	1.3	3.8
13	7.0	4.5	6.7	6.5	5.5	1.7	1.7	1.6	2.3	1.4	1.2	4.3
14	7.0	4.4	5.8	6.0	5.2	1.9	1.5	1.4	2.3	1.3	1.2	3.9
15	6.9	4.4	5.7	6.0	5.6	2.0	1.5	1.4	2.3	1.3	44	3.9
16	7.2	4.4	5.8	7.1	5.9	2.1	1.4	1.4	2.2	1.3	175	3.8
17	8.1	4.6	6.1	7.5	5.8	2.3	1.5	1.5	2.2	1.3	175	3.7
18	7.1	4.9	6.6	7.4	5.9	1.8	1.6	1.6	2.4	1.3	176	3.7
19	6.7	4.8	7.0	6.6	5.9	1.8	1.6	1.6	2.8	1.3	176	3.8
20	5.9	4.5	6.9	6.1	6.0	1.9	1.5	1.5	2.1	1.3	174	4.2
21	5.7	4.5	7.1	6.5	5.9	2.2	1.5	1.5	2.2	1.3	173	4.0
22	5.7	4.6	6.7	6.4	6.3	2.2	1.5	1.6	2.3	1.3	173	3.9
23	5.8	4.8	6.0	6.2	6.7	2.0	1.5	1.5	2.4	1.3	173	4.1
24	5.7	4.7	5.9	5.9	7.7	2.0	1.5	1.4	2.5	1.2	171	32
25	5.7	4.7	6.2	5.2	577	1.9	1.4	1.4	2.6	1.1	170	7.6
26	5.6	4.6	5.7	5.0	1110	2.3	1.4	1.4	2.5	1.1	170	5.0
27	5.6	4.4	5.9	5.2	1100	5.0	1.4	1.8	2.4	1.1	170	4.7
28	5.6	4.4	6.1	4.8	528	5.6	1.4	2.0	2.3	1.1	170	4.5
29	5.5	4.8	5.9	4.7	1.6	6.7	1.3	1.5	2.3	1.1	170	4.6
30	7.0	4.5	6.6	4.7	---	5.8	1.3	1.6	2.2	1.3	170	4.5
31	5.7	---	6.5	4.5	---	6.1	---	1.6	---	1.2	170	---
TOTAL	205.1	142.3	191.8	188.5	3443.2	70.03	152.2	47.5	66.0	43.9	2816.3	281.9
MEAN	6.62	4.74	6.19	6.08	119	2.26	5.07	1.53	2.20	1.42	90.8	9.40
MAX	8.1	5.3	9.3	7.9	1110	6.7	54	2.0	2.8	2.2	176	131
MIN	5.5	4.4	4.3	4.5	1.6	.71	1.3	1.4	1.7	1.1	1.0	3.7
AC-FT	407	282	380	374	6830	139	302	94	131	87	5590	559

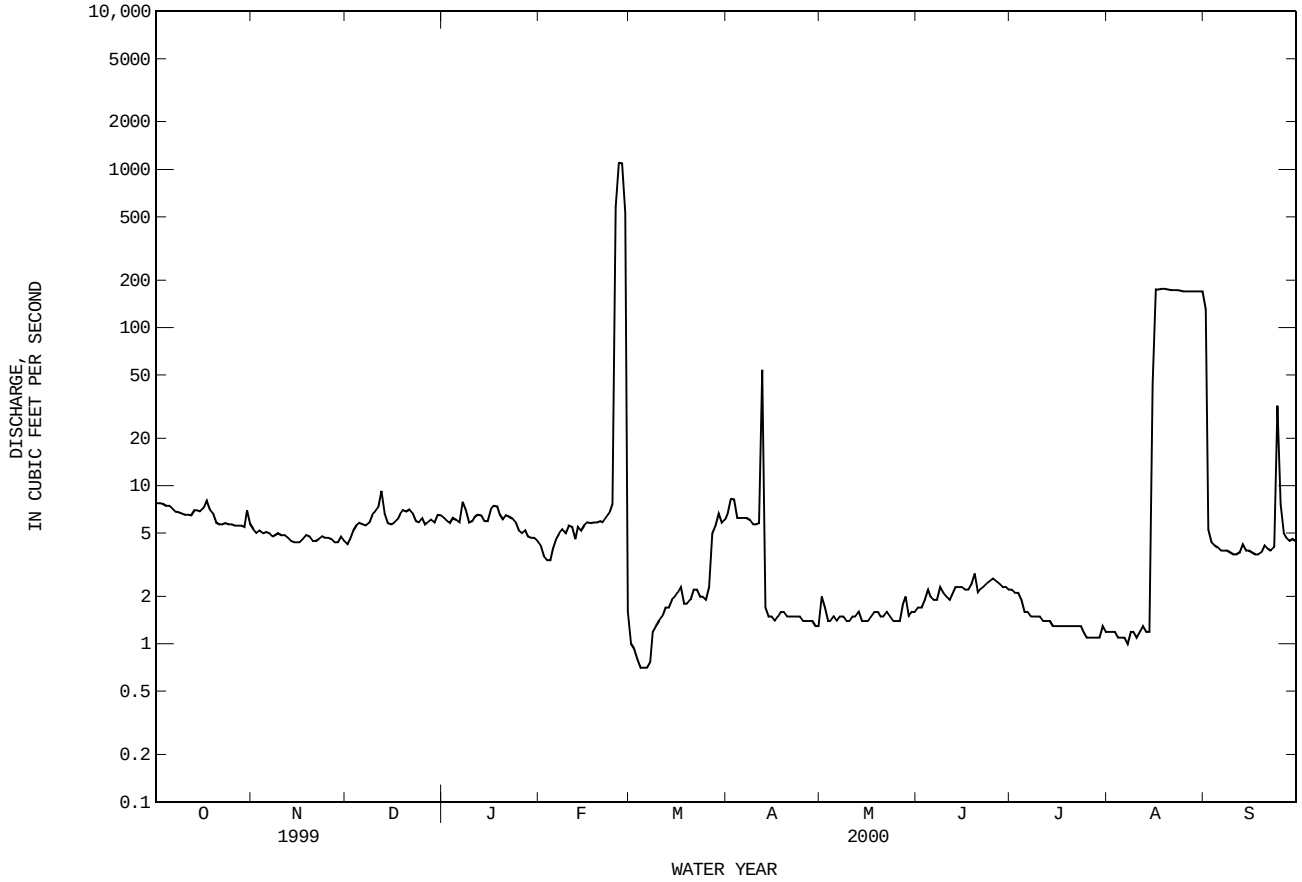
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000hz, BY WATER YEAR (WY)

MEAN	110	115	123	265	191	220	263	410	345	282	64.8	83.0
MAX	797	756	828	1565	1258	854	1630	1672	1102	2023	268	741
(WY)	1975	1987	1975	1975	1975	1970	1970	1977	1977	1987	1984	1974
MIN	2.58	2.46	3.32	3.72	4.41	2.26	4.62	1.53	2.20	1.42	2.82	3.31
(WY)	1985	1989	1989	1989	1984	2000	1989	2000	2000	2000	1971	1988

08104100 LAMPASAS RIVER NEAR BELTON, TX--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000hz		
ANNUAL TOTAL	7648.73				
ANNUAL MEAN	20.9		208		
HIGHEST ANNUAL MEAN			713		1975
LOWEST ANNUAL MEAN			5.23		1989
HIGHEST DAILY MEAN	1110	Feb 26	5370	Jul 1	1987
LOWEST DAILY MEAN	.71	Mar 4	.00	Aug 9	1967
ANNUAL SEVEN-DAY MINIMUM	.80	Mar 1	.00	Aug 9	1967
INSTANTANEOUS PEAK FLOW	1130	Feb 26	y6240	Jul 1	1987
INSTANTANEOUS PEAK STAGE	9.32	Feb 26	y19.23	Jul 1	1987
ANNUAL RUNOFF (AC-FT)	15170		150900		
10 PERCENT EXCEEDS	7.5		762		
50 PERCENT EXCEEDS	4.4		12		
90 PERCENT EXCEEDS	1.3		4.2		

h See PERIOD OF RECORD paragraph.
z Period of regulated streamflow.
y Also occured Jul 1, 1999.



08104500 LITTLE RIVER NEAR LITTLE RIVER, TX

LOCATION.--Lat 30°57'59", long 97°20'45", Bell County, Hydrologic Unit 12070204, on right bank 25 ft downstream from State Highway 95, 2.4 mi southeast of Little River, 5.0 mi downstream from confluence of Leon and Lampasas Rivers, and 95.8 mi upstream from mouth.

DRAINAGE AREA.--5,228 mi^2.

PERIOD OF RECORD.--Oct 1923 to May 1929, Aug 1962 to current year.
Water-quality records.--Chemical data: Oct 1964 to Sep 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.11 ft above sea level. From Oct 5, 1923, to May 27, 1929, nonrecording gage at railroad bridge 0.5 mi upstream at same datum. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since Mar 1954, at least 10% of contributing drainage area has been regulated by Belton Lake (station 08102000, conservation pool storage 434,500 acre-ft). Wastewater effluent is returned upstream of station from Fort Hood military installation and by the cities of Killeen, Nolanville, and Harker Heights. Flow is affected at times by discharge from the flood-detention pools of 13 floodwater-retarding structures with a combined detention capacity of 15,430 acre-ft. These structures control runoff from 47.4 mi^2. Many small diversions upstream for irrigation and municipal supply affect very low flow. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1924-28), 709 ft^3/s (513,700 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1924-29).--Maximum discharge, 28,400 ft^3/s Oct 2, 1927, (gage height 43.3 ft); minimum, 8.9 ft^3/s Aug 12, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 46.8 ft in Sep 1921, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	83	67	77	78	115	113	241	64	60	64	209
2	101	72	72	81	227	107	216	305	56	52	60	118
3	104	68	73	85	103	97	690	151	55	50	55	58
4	93	69	72	72	87	92	211	113	79	48	48	66
5	98	71	70	67	81	91	143	106	128	49	55	64
6	96	73	73	73	79	100	122	104	79	46	51	62
7	95	67	76	105	79	88	120	95	65	39	46	51
8	93	71	73	450	82	81	112	92	62	36	54	56
9	94	70	88	129	82	104	101	84	232	37	63	57
10	93	70	120	93	80	90	102	84	264	36	59	59
11	91	67	76	75	82	99	104	81	191	38	52	52
12	95	65	278	76	85	90	2600	77	116	34	52	54
13	91	69	171	68	86	92	383	183	91	33	50	78
14	90	69	100	66	83	93	241	94	89	33	46	101
15	98	66	82	68	80	83	196	80	74	59	55	77
16	95	71	78	72	81	87	171	75	70	69	144	71
17	107	69	79	69	77	279	140	72	76	64	207	68
18	113	69	81	68	77	135	123	74	126	65	205	64
19	117	66	77	64	75	102	116	70	596	67	209	62
20	109	66	80	62	74	93	113	79	223	67	211	57
21	99	68	91	67	82	94	104	81	118	63	213	50
22	103	73	89	69	89	103	101	75	91	65	216	48
23	98	72	83	69	275	105	99	63	78	66	214	55
24	94	69	80	68	125	113	95	60	75	67	212	77
25	96	78	82	69	236	101	91	65	70	54	213	1050
26	71	77	78	69	1570	99	86	57	64	82	211	112
27	61	75	84	82	1160	104	84	59	62	66	207	85
28	58	71	75	175	939	101	82	205	61	51	212	77
29	57	72	76	84	157	262	84	102	53	49	220	68
30	163	69	74	78	---	163	82	72	75	58	221	66
31	204	---	72	73	---	116	---	69	---	75	213	---
TOTAL	3071	2115	2770	2823	6411	3479	7025	3168	3483	1678	4138	3172
MEAN	99.1	70.5	89.4	91.1	221	112	234	102	116	54.1	133	106
MAX	204	83	278	450	1570	279	2600	305	596	82	221	1050
MIN	57	65	67	62	74	81	82	57	53	33	46	48
AC-FT	6090	4200	5490	5600	12720	6900	13930	6280	6910	3330	8210	6290

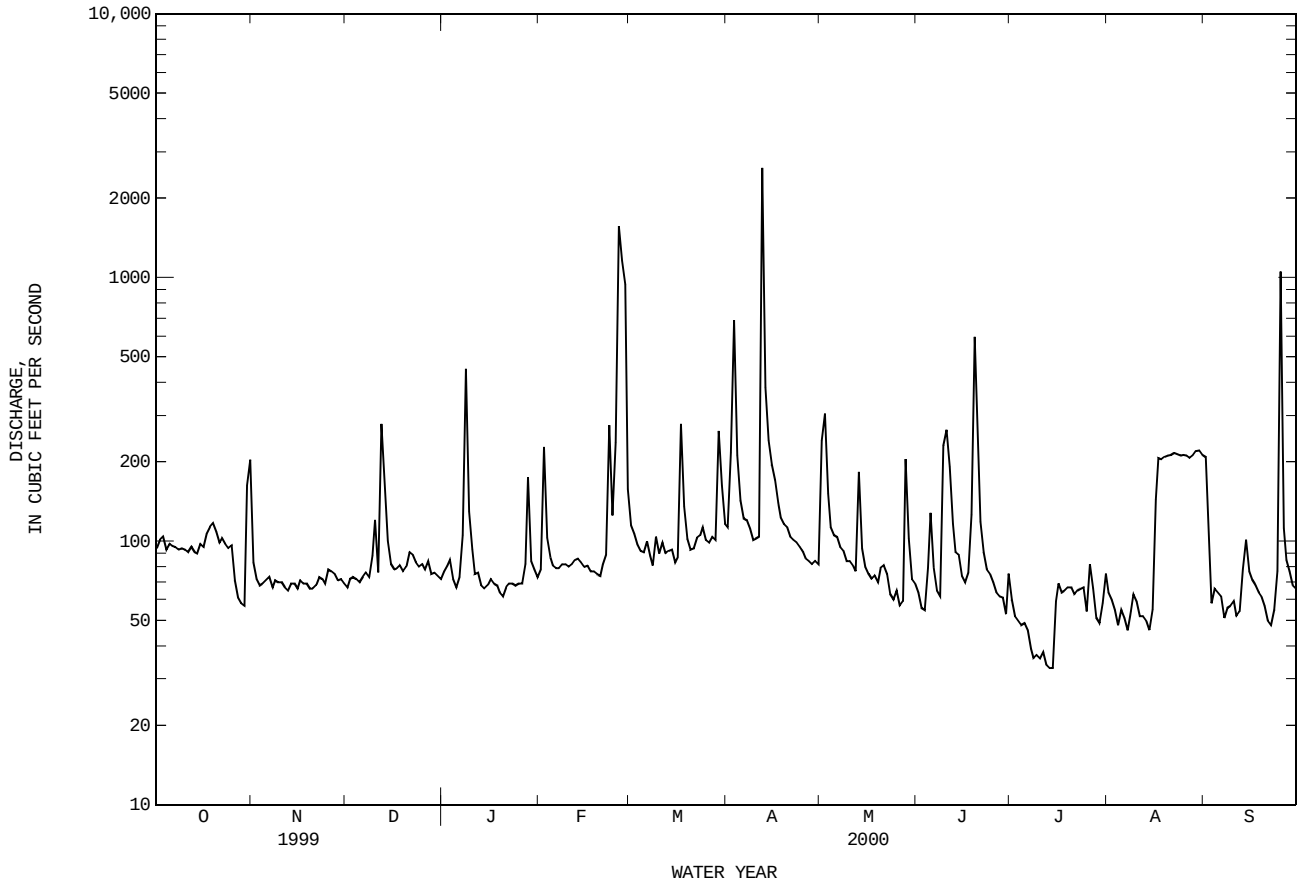
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000z, BY WATER YEAR (WY)

MEAN	440	453	595	936	1013	1403	1549	1985	1826	1192	500	388
MAX	2760	2136	2697	7252	6123	10200	9237	6833	7264	6205	3818	2009
(WY)	1975	1975	1992	1992	1992	1992	1992	1992	1965	1992	1992	1986
MIN	43.0	57.8	47.7	59.3	60.7	63.2	59.4	102	116	54.1	12.1	41.3
(WY)	1979	1990	1964	1971	1984	1996	1984	2000	2000	2000	1963	1972

08104500 LITTLE RIVER NEAR LITTLE RIVER, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000z	
ANNUAL TOTAL	151530		43333			
ANNUAL MEAN	415		118		1023	
HIGHEST ANNUAL MEAN					5054	1992
LOWEST ANNUAL MEAN					118	2000
HIGHEST DAILY MEAN	2640	Mar 25	2600	Apr 12	62000	May 17 1965
LOWEST DAILY MEAN	57	Oct 29	33	Jul 13	8.2	Aug 6 1963
ANNUAL SEVEN-DAY MINIMUM	68	Nov 15	35	Jul 8	9.5	Aug 3 1963
INSTANTANEOUS PEAK FLOW			5330	Apr 12	79600	May 17 1965
INSTANTANEOUS PEAK STAGE			15.47	Apr 12	42.85	May 17 1965
ANNUAL RUNOFF (AC-FT)	300600		85950		740900	
10 PERCENT EXCEEDS	1050		208		3230	
50 PERCENT EXCEEDS	176		80		246	
90 PERCENT EXCEEDS	73		56		64	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Mar 1980 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.--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. 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.--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, 14,920 acre-ft, Sep 30, 2000, elevation, 769.02 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,740 acre-ft, Oct 1, elevation, 786.74 ft; minimum contents, 14,920 acre-ft, Sep 30, elevation, 769.02 ft.

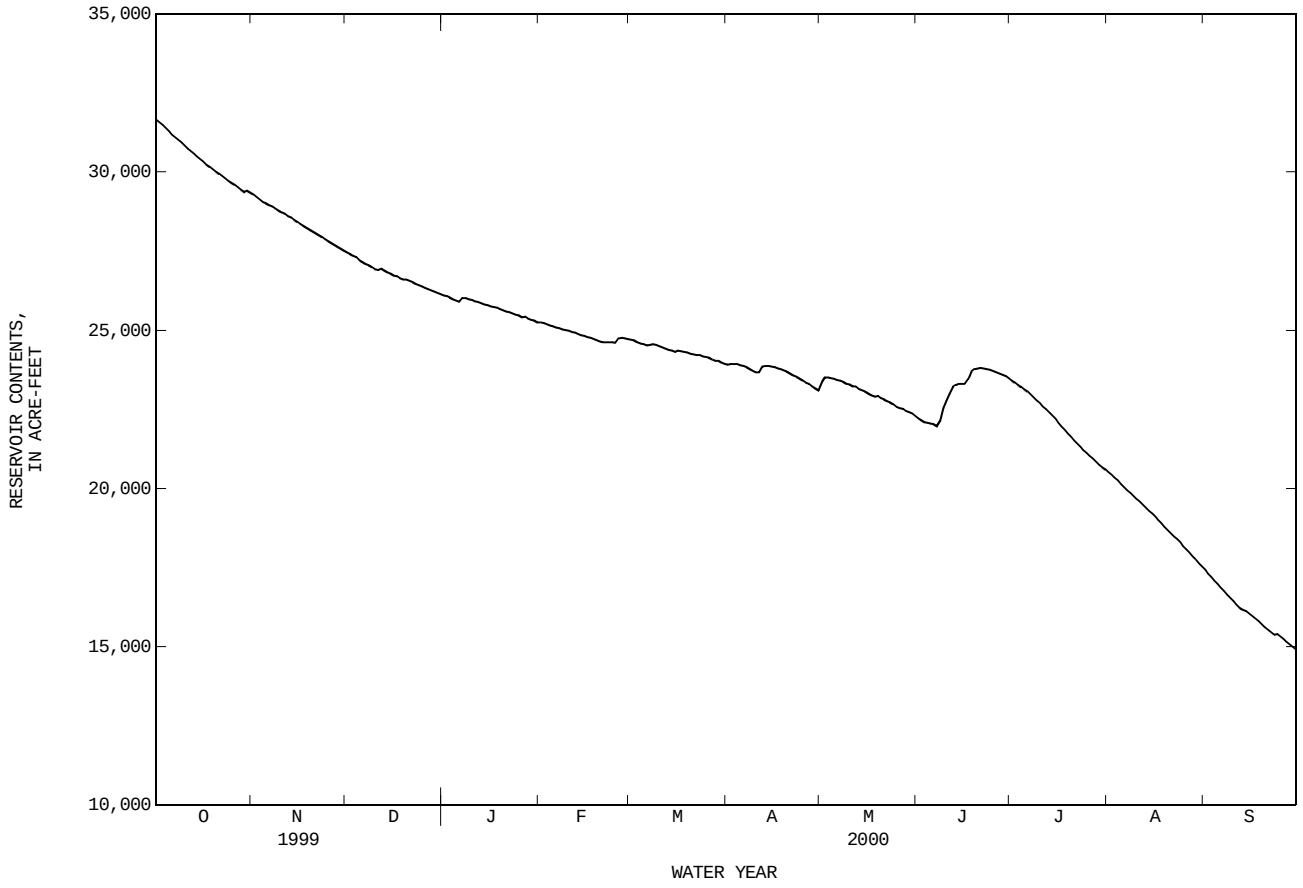
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31660	29290	27460	26110	25260	24700	23930	23360	22220	23420	20510	17420
2	31560	29210	27420	26080	25230	24680	23940	23510	22160	23350	20430	17300
3	31480	29140	27360	26040	25200	24630	23950	23520	22100	23270	20340	17200
4	31380	29070	27320	25980	25160	24590	23950	23500	22070	23200	20250	17080
5	31280	29020	27220	25940	25130	24560	23910	23480	22060	23130	20130	16970
6	31190	28970	27160	25900	25090	24520	23880	23440	22030	23060	20040	16860
7	31110	28920	27090	26030	25070	24550	23830	23410	21970	22970	19930	16750
8	31020	28860	27050	26020	25040	24560	23770	23370	22130	22890	19860	16640
9	30930	28800	27000	25980	25020	24540	23720	23320	22540	22790	19760	16530
10	30840	28740	26930	25950	24990	24500	23670	23280	22790	22700	19680	16430
11	30750	28690	26920	25920	24960	24460	23670	23230	23010	22590	19580	16330
12	30660	28620	26950	25900	24930	24420	23850	23230	23220	22500	19480	16240
13	30570	28570	26890	25860	24900	24380	23880	23160	23270	22400	19380	16160
14	30500	28500	26840	25830	24860	24360	23870	23110	23310	22310	19280	16120
15	30410	28430	26790	25800	24820	24330	23850	23060	23320	22200	19200	16050
16	30330	28370	26740	25770	24790	24360	23830	23000	23320	22080	19100	15970
17	30240	28310	26710	25740	24760	24350	23800	22940	23460	21960	19000	15890
18	30180	28260	26660	25710	24730	24330	23770	22900	23690	21850	18890	15800
19	30090	28190	26610	25670	24690	24290	23740	22930	23780	21740	18780	15720
20	30010	28140	26600	25640	24650	24250	23690	22870	23800	21630	18680	15630
21	29950	28070	26560	25600	24620	24240	23640	22820	23810	21520	18570	15540
22	29880	28020	26520	25580	24630	24220	23580	22770	23800	21410	18480	15460
23	29800	27950	26480	25540	24620	24210	23540	22720	23780	21320	18390	15370
24	29730	27880	26420	25500	24620	24180	23480	22660	23750	21210	18290	15400
25	29670	27830	26390	25470	24610	24150	23420	22590	23710	21120	18180	15310
26	29600	27760	26350	25420	24750	24130	23360	22540	23670	21020	18070	15230
27	29520	27700	26310	25440	24770	24080	23300	22520	23640	20930	17960	15160
28	29450	27640	26270	25380	24740	24040	23230	22470	23590	20840	17850	15070
29	29380	27580	26220	25340	24720	24040	23170	22420	23540	20740	17740	14990
30	29430	27520	26180	25310	---	23990	23120	22370	23490	20660	17640	14920
31	29370	---	26150	25260	---	23950	---	22310	---	20590	17530	---
MAX	31660	29290	27460	26110	25260	24700	23950	23520	23810	23420	20510	17420
MIN	29370	27520	26150	25260	24610	23950	23120	22310	21970	20590	17530	14920
(+)	784.70	783.01	781.72	780.86	780.33	779.55	778.70	777.86	779.09	775.99	772.41	769.02
(@)	-2380	-1850	-1370	-890	-740	-770	-830	-810	+1180	-2900	-3060	-2610

CAL YR 1999 MAX 39210 MIN 26150 (@) -11360
WTR YR 2000 MAX 31660 MIN 14920 (@) -16830

(+) 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

LOCATION.--Lat 30°39′42", long 97°42′40", Williamson County, Hydrologic Unit 12070205, on left bank 5,000 ft downstream from North Fork dam, 1.5 mi upstream from Middle Fork San Gabriel River, 2.7 mi upstream from Interstate Highway 35, 2.7 mi northwest of Georgetown, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--248 mi^2.

PERIOD OF RECORD.--Jun 1968 to current year.
Water-quality records.--Chemical data: Oct 1980 to Aug 1989. Biochemical data: Oct 1980 to Aug 1989.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.06 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1980, at least 10% of contributing drainage area has been regulated by Lake Georgetown (station 08104650, conservation pool storage 37,010 acre-ft) located about 1.0 mi upstream from gage. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--11 years (water years 1969-79), 88.1 ft^3/s (63,830 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1968-79).--Maximum discharge, 35,000 ft^3/s Sep 17, 1974 (gage height, 26.20 ft); no flow Jul 23, 24, 25, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 39.5 ft in Sep 1921. Flood in Apr 1957 reached a stage of 34.5 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	4.5	9.4	18	1.3	1.1	4.7	4.3	1.5	2.9	1.2	1.8
2	9.6	4.8	9.7	22	1.6	1.1	4.5	4.9	1.9	2.2	.60	2.0
3	9.7	4.7	10	16	1.8	1.0	5.0	2.3	1.8	2.0	.68	2.6
4	7.4	5.0	11	1.3	2.2	.91	4.0	2.2	2.2	2.1	.59	2.6
5	6.3	4.9	12	.14	2.6	.79	5.6	1.5	1.7	2.8	.67	3.3
6	6.5	5.5	11	.07	3.4	.49	10	1.2	1.9	2.4	.65	3.0
7	7.0	5.7	11	1.0	3.7	.29	8.5	2.0	1.6	2.1	1.2	2.9
8	6.4	6.3	11	2.2	3.9	.66	9.4	1.8	1.9	2.3	1.4	3.1
9	5.4	7.3	11	.68	4.4	.40	9.7	1.9	2.4	2.6	1.3	3.3
10	5.4	7.5	11	.35	4.9	.30	9.4	1.8	1.9	2.0	1.4	3.9
11	4.9	7.1	10	.33	4.4	.18	8.4	1.5	1.9	1.9	1.0	4.0
12	4.6	7.1	9.8	.30	4.7	.12	8.9	1.6	2.1	2.2	.97	4.2
13	4.3	7.1	8.8	.26	4.6	.06	6.4	1.8	1.6	2.5	1.0	4.3
14	4.2	7.4	8.3	.17	3.9	.04	6.1	1.5	2.0	2.4	1.5	5.1
15	4.1	7.4	7.6	.15	4.7	.05	5.5	1.8	1.8	2.0	2.4	4.0
16	4.0	7.6	7.0	.18	3.8	.11	5.0	2.3	2.0	1.6	1.9	2.3
17	3.9	9.7	5.7	.15	4.2	.59	4.3	2.5	2.5	2.1	1.6	5.5
18	3.7	12	5.4	.28	4.6	.52	3.8	2.6	3.5	1.9	1.7	4.9
19	3.4	15	4.5	.25	2.3	.80	4.7	2.2	3.8	1.6	1.6	5.0
20	3.0	14	4.6	.36	1.8	2.1	5.1	2.5	3.4	1.0	1.1	6.4
21	2.6	14	5.6	.39	1.6	9.3	3.5	4.2	2.3	.79	.95	7.4
22	2.5	15	6.5	.43	1.6	8.3	2.5	3.0	2.7	1.1	1.9	6.7
23	2.3	16	7.3	.44	2.8	7.0	2.8	2.0	2.8	1.3	2.0	3.2
24	2.1	15	8.4	.51	2.4	5.2	2.6	1.8	3.6	.83	2.0	9.0
25	1.9	14	9.1	.58	1.6	6.3	2.8	1.7	2.8	.64	2.1	8.2
26	2.0	13	11	.67	2.6	7.4	3.0	1.2	3.0	.94	2.2	10
27	2.1	11	11	1.3	2.2	4.8	2.8	1.4	3.5	1.1	2.3	13
28	2.4	11	13	1.4	1.8	5.3	2.8	1.5	4.3	1.2	2.3	11
29	2.9	9.9	15	1.1	1.5	3.5	2.5	1.5	3.3	1.4	2.4	12
30	4.9	9.6	16	.98	---	4.5	2.6	1.3	4.8	1.3	2.7	5.9
31	4.8	---	17	1.0	---	4.2	---	1.4	---	1.3	1.9	---
TOTAL	142.5	279.1	298.7	72.97	86.9	77.41	156.9	65.2	76.5	54.50	47.21	160.6
MEAN	4.60	9.30	9.64	2.35	3.00	2.50	5.23	2.10	2.55	1.76	1.52	5.35
MAX	9.7	16	17	22	4.9	9.3	10	4.9	4.8	2.9	2.7	13
MIN	1.9	4.5	4.5	.07	1.3	.04	2.5	1.2	1.5	.64	.59	1.8
AC-FT	283	554	592	145	172	154	311	129	152	108	94	319

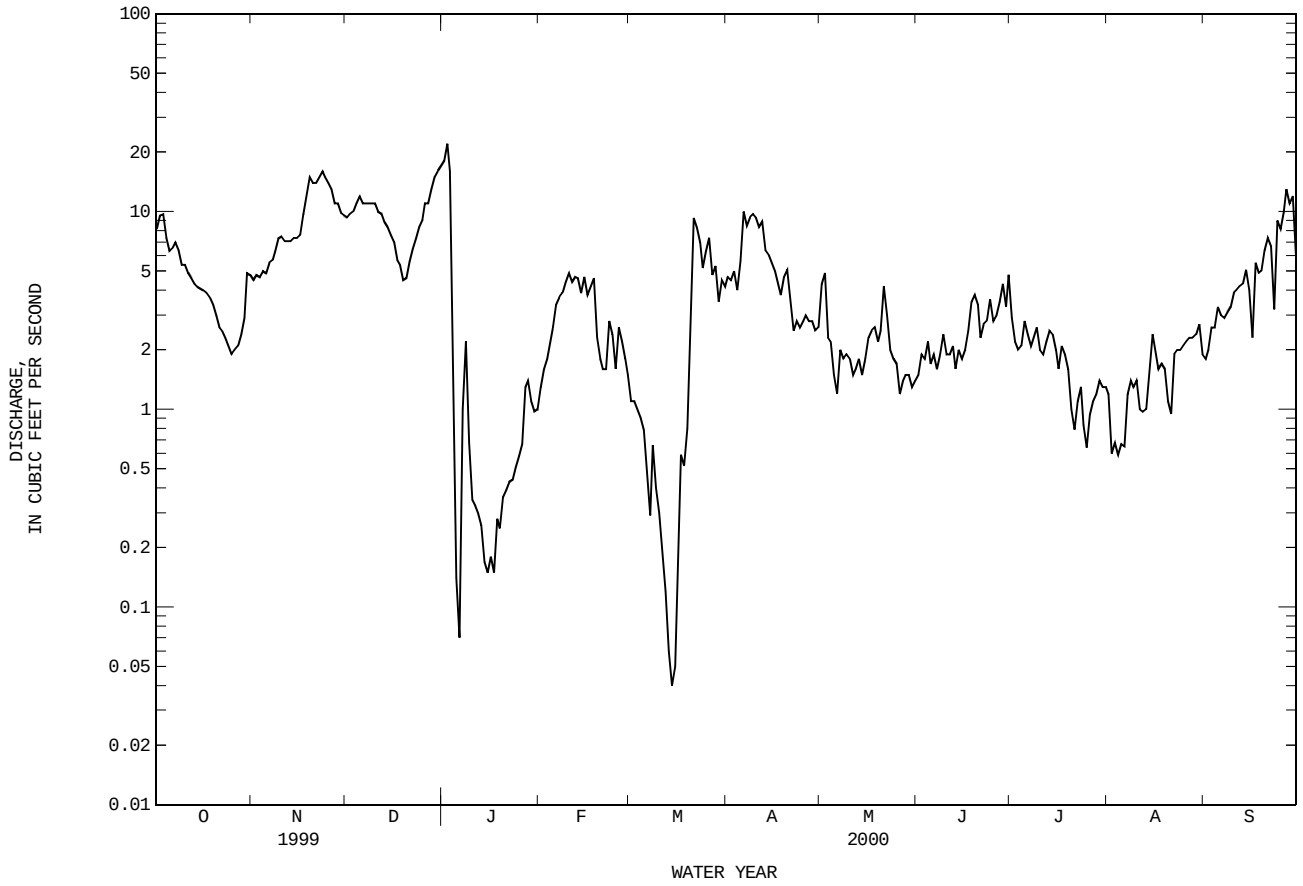
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000z, BY WATER YEAR (WY)

MEAN	15.9	24.7	48.3	57.5	83.5	133	77.9	96.5	156	143	8.16	29.1
MAX	153	171	254	343	485	832	574	544	938	962	27.2	461
(WY)	1982	1982	1986	1992	1986	1992	1992	1997	1992	1987	1992	1981
MIN	1.18	1.72	1.97	1.39	3.00	1.30	.44	.71	.60	1.76	1.30	1.37
(WY)	1983	1986	1984	1986	2000	1980	1980	1980	1980	2000	1982	1982

08104700 NORTH FORK SAN GABRIEL RIVER NEAR GEORGETOWN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000z	
ANNUAL TOTAL	12376.6		1518.49			
ANNUAL MEAN	33.9		4.15		72.8	
HIGHEST ANNUAL MEAN					358	1992
LOWEST ANNUAL MEAN					4.00	1980
HIGHEST DAILY MEAN	658	Jul 14	22	Jan 2	4500	Jun 9 1981
LOWEST DAILY MEAN	1.2	Jun 14	.04	Mar 14	.00	Sep 27 1981
ANNUAL SEVEN-DAY MINIMUM	2.0	Jun 9	.12	Mar 10	.01	Oct 2 1981
INSTANTANEOUS PEAK FLOW			32	Mar 22	6070	Mar 4 1992
INSTANTANEOUS PEAK STAGE			5.48	Sep 24	13.05	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	24550		3010		52720	
10 PERCENT EXCEEDS	86		9.7		172	
50 PERCENT EXCEEDS	7.6		2.6		6.6	
90 PERCENT EXCEEDS	3.8		.67		2.0	

z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Oct 1947 to Sep 1948, Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1887, about 41 ft Apr 24, 1957, from information by local residents.

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

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.57	.73	.58	1.2	2.5	1.5	8.8	.15	.68	.32	.00
2	.12	.72	.72	.69	1.7	1.9	2.3	193	.08	.65	.33	.00
3	.11	.67	.58	.74	1.6	1.6	3.8	39	.09	.69	.32	.00
4	.10	.65	.54	.68	1.5	1.1	4.8	14	.14	.67	.31	.00
5	.09	.65	.59	.47	1.5	.80	5.0	8.1	.16	.60	.29	.00
6	.08	.72	.60	.49	1.5	1.4	3.5	6.2	.09	.59	.25	.00
7	.08	.77	.63	1.5	1.7	1.1	3.1	5.6	.08	.44	.21	.00
8	.08	.73	.64	2.2	1.7	1.6	2.7	4.4	.94	.38	.36	.00
9	.10	.74	.66	1.5	1.7	2.4	1.9	3.5	7.6	.35	.28	.00
10	.11	.78	.48	1.4	1.7	3.4	2.8	3.7	12	.31	.32	.00
11	.11	.76	.42	1.0	1.7	2.4	2.3	3.3	7.9	.27	.29	.00
12	.11	.74	1.1	1.0	1.6	2.1	7.1	3.2	4.3	.25	.24	.00
13	.12	.79	1.0	.91	1.5	2.1	13	5.1	4.4	.23	.18	.21
14	.13	.77	1.0	.73	1.5	1.3	8.4	4.4	1.8	.21	.13	.15
15	.15	.80	.67	.70	1.6	1.1	5.3	3.3	1.1	.19	.09	.20
16	.16	.82	.44	.73	1.6	1.6	4.3	3.0	.99	.19	.07	.16
17	.20	.77	.33	1.2	1.5	4.6	4.5	2.7	3.3	.18	.04	.13
18	.26	.64	.49	1.1	1.6	3.1	3.1	3.2	6.3	.17	.02	.10
19	.27	.73	.55	1.1	1.7	2.9	3.2	2.1	8.4	.18	.01	.07
20	.28	.77	.68	.95	1.4	2.6	2.6	2.8	3.7	.19	.00	.05
21	.22	.81	.91	1.1	1.5	2.3	2.0	2.4	2.8	.16	.00	.05
22	.24	.86	.70	1.2	1.6	2.0	1.9	2.1	2.4	.15	.01	.05
23	.24	.87	.62	1.3	2.2	2.1	3.2	.80	2.7	.16	.02	.05
24	.25	.85	.77	1.3	2.0	1.6	3.2	.64	2.1	.15	.02	.69
25	.25	.84	.92	1.3	1.9	1.6	2.4	.37	1.9	.15	.01	.64
26	.25	.73	.73	1.3	2.9	2.1	1.8	.28	1.5	.15	.00	.30
27	.29	.73	.68	1.7	4.9	2.1	1.5	.34	1.1	.12	.00	.23
28	.32	.68	.58	1.5	4.4	1.2	1.1	.97	.89	.11	.00	.19
29	.36	.67	.59	1.5	3.1	2.1	1.0	.82	.80	.12	.00	.17
30	.74	.69	.41	1.3	---	1.9	1.7	.36	.72	.23	.00	.14
31	.66	---	.36	1.3	---	1.3	---	.27	---	.27	.00	---
TOTAL	6.60	22.32	20.12	34.47	56.0	61.90	105.0	328.75	80.43	9.19	4.12	3.58
MEAN	.21	.74	.65	1.11	1.93	2.00	3.50	10.6	2.68	.30	.13	.12
MAX	.74	.87	1.1	2.2	4.9	4.6	13	193	12	.69	.36	.69
MIN	.08	.57	.33	.47	1.2	.80	1.0	.27	.08	.11	.00	.00
AC-FT	13	44	40	68	111	123	208	652	160	18	8.2	7.1

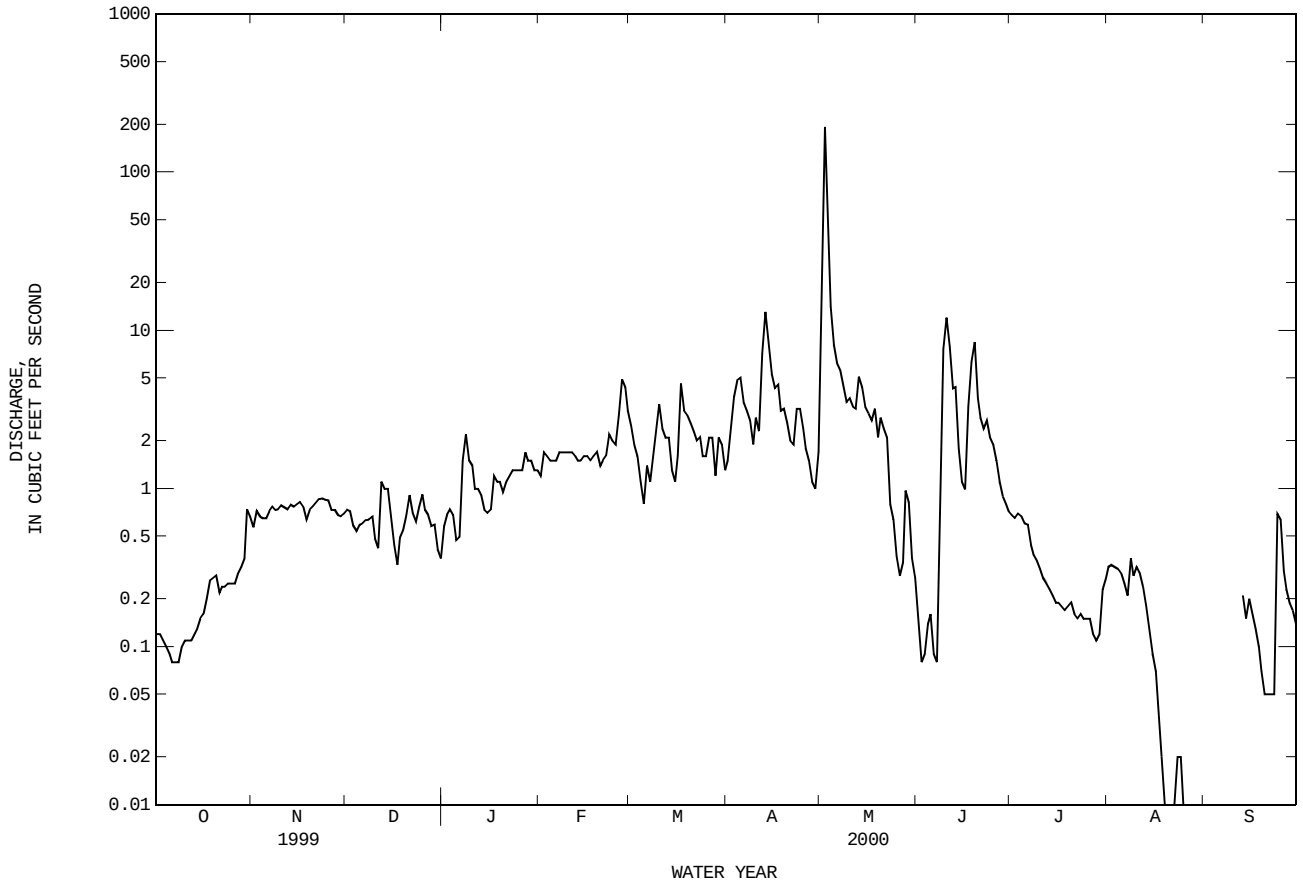
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000h, BY WATER YEAR (WY)

MEAN	38.8	22.2	46.9	49.9	75.8	64.6	71.9	97.1	117	24.9	12.9	21.4
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000h	
ANNUAL TOTAL	7491.64		732.48			
ANNUAL MEAN	20.5		2.00		51.2	
HIGHEST ANNUAL MEAN					203	1992
LOWEST ANNUAL MEAN					2.00	2000
HIGHEST DAILY MEAN	424	May 18	193	May 2	7830	Sep 3 1981
LOWEST DAILY MEAN	.08	Oct 6	.00	Aug 20	.00	Jul 3 1971
ANNUAL SEVEN-DAY MINIMUM	.09	Oct 3	.00	Aug 26	.00	Jul 3 1971
INSTANTANEOUS PEAK FLOW			791	May 2	33400	Sep 3 1981
INSTANTANEOUS PEAK STAGE			5.60	May 2	24.60	Sep 3 1981
ANNUAL RUNOFF (AC-FT)	14860		1450		37090	
10 PERCENT EXCEEDS	44		3.3		100	
50 PERCENT EXCEEDS	12		.74		12	
90 PERCENT EXCEEDS	.17		.08		.31	

h See PERIOD OF RECORD paragraph

08104900 SOUTH FORK SAN GABRIEL RIVER AT GEORGETOWN, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1967 to current year.
Water-quality records.--Sediment data: Oct 1976 to Sep 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.--Records fair. No known regulation or diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1921 occurred Sep 1921, 25.0 ft, from information by Texas Department of Transportation and local residents (discharge not determined).

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

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.14	.27	.25	.67	.00	3.2	.00	.00
2	.00	.00	.00	.00	.20	.30	.31	87	.00	3.0	.00	.00
3	.00	.00	.00	.00	.13	.28	.51	1.9	.00	2.6	.00	.00
4	.00	.00	.00	.00	.11	.20	.23	1.0	.00	2.2	.00	.00
5	.00	.00	.00	.00	.12	.26	.20	1.0	.00	1.7	.00	.00
6	.00	.00	.00	.00	.16	.30	.21	.98	.00	1.5	.00	.00
7	.00	.00	.00	.01	.22	.30	.20	.94	.00	1.2	.00	.00
8	.00	.00	.00	.00	.21	.65	.16	.79	.00	.86	.00	.00
9	.00	.00	.00	.00	.26	.30	.13	.64	.11	.52	.00	.00
10	.00	.00	.00	.00	.30	.30	.19	.54	.11	.38	.00	.00
11	.00	.00	.00	.00	.27	.22	.27	.49	.14	.18	.00	.00
12	.00	.00	.00	.00	.22	.20	.84	.41	.20	.08	.00	.00
13	.00	.00	.00	.00	.26	.27	.20	.31	.24	.00	.00	.00
14	.00	.00	.00	.00	.20	.37	.20	.20	.30	.00	.00	.00
15	.00	.00	.00	.00	.25	.40	.20	.21	.32	.00	.00	.00
16	.00	.00	.00	.00	.27	.40	.20	.19	.29	.00	.00	.00
17	.00	.00	.00	.00	.30	.59	.20	.10	2.8	.00	.00	.00
18	.00	.00	e.00	.00	.27	.33	.20	.02	81	.00	.00	.00
19	.00	.00	e.00	.01	.18	.28	.20	.07	65	.00	.00	.00
20	.00	.00	e.00	.00	.12	.26	.14	.12	12	.00	.00	.00
21	.00	.00	.00	.00	.17	.47	.12	.00	7.3	.00	.00	.00
22	.00	.00	.00	.01	.23	.46	.07	.00	6.9	.00	.00	.00
23	.00	.00	.00	.00	.35	.50	.05	.00	5.5	.00	.00	.00
24	.00	.00	.00	.03	.20	.45	.00	.00	4.4	.00	.00	.00
25	.00	.00	.00	.06	.19	.42	.00	.00	4.9	.00	.00	.00
26	.00	.00	.00	.06	.29	.49	.00	.00	4.9	.00	.00	.00
27	.00	.00	.00	.17	.18	.45	.00	.00	4.7	.00	.00	.00
28	.00	.00	.00	.05	.16	.31	.00	.03	4.1	.00	.00	.00
29	.00	.00	.00	.02	.24	.50	.00	.00	3.7	.00	.00	.00
30	.00	.00	.00	.03	---	.29	.00	.00	3.4	.00	.00	.00
31	.00	---	.00	.07	---	.20	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.52	6.20	11.02	5.28	97.61	212.31	17.42	0.00	0.00
MEAN	.000	.000	.000	.017	.21	.36	.18	3.15	7.08	.56	.000	.000
MAX	.00	.00	.00	.17	.35	.65	.84	87	81	3.2	.00	.00
MIN	.00	.00	.00	.00	.11	.20	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	1.0	12	22	10	194	421	35	.00	.00

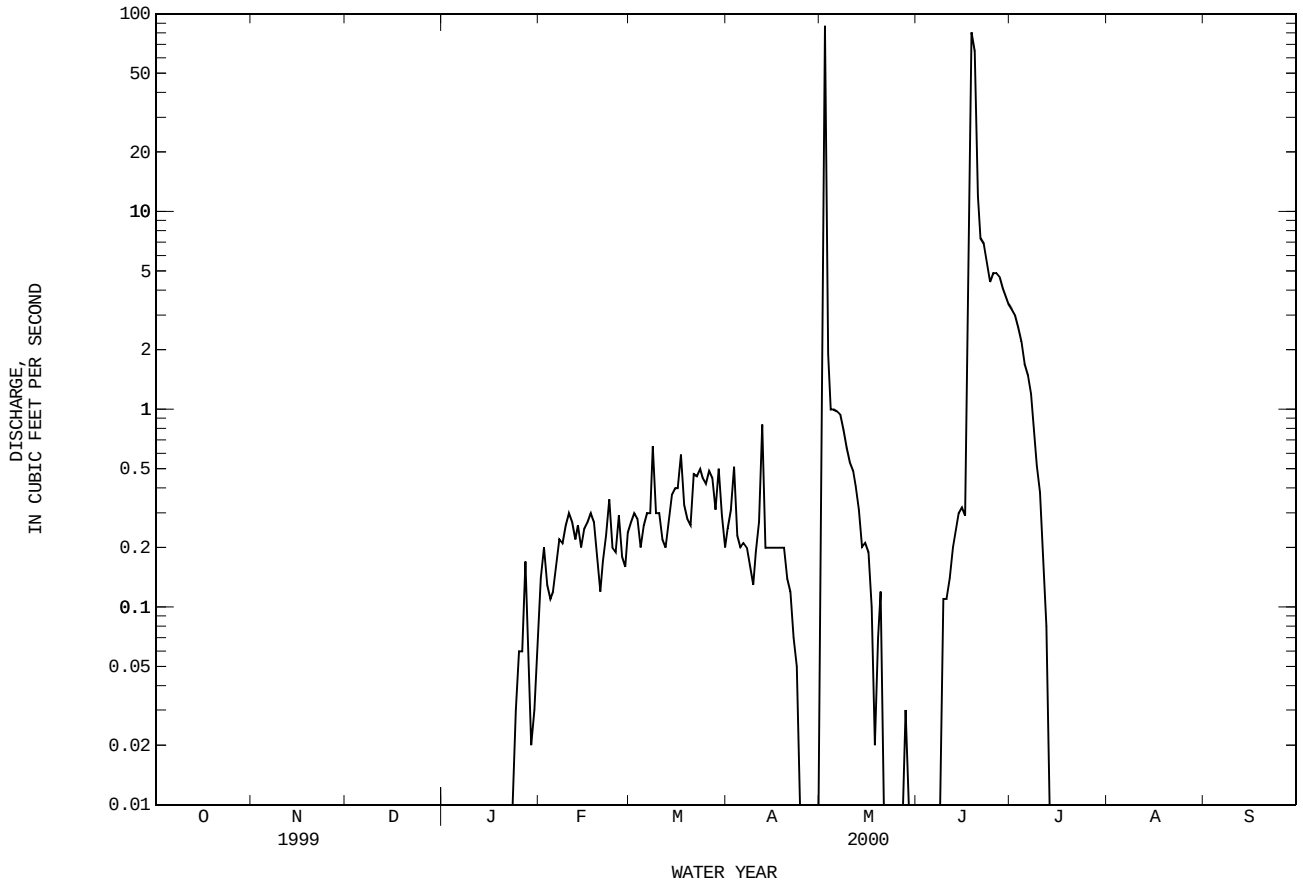
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	16.8	9.57	25.3	28.3	48.4	34.9	37.3	46.2	51.0	13.4	4.76	9.27
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

08105100 BERRY CREEK NEAR GEORGETOWN, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	4028.73		350.36			
ANNUAL MEAN	11.0		.96		27.0	
HIGHEST ANNUAL MEAN					106	1992
LOWEST ANNUAL MEAN					.047	1984
HIGHEST DAILY MEAN	377	May 30	87	May 2	4670	Oct 31 1974
LOWEST DAILY MEAN	.00	Sep 6	.00	Oct 1	.00	Jul 23 1967
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 6	.00	Oct 1	.00	Jul 23 1967
INSTANTANEOUS PEAK FLOW			448	May 2	15500	Oct 31 1974
INSTANTANEOUS PEAK STAGE			4.55	May 2	19.33	Oct 31 1974
ANNUAL RUNOFF (AC-FT)	7990		695		19560	
10 PERCENT EXCEEDS	23		.51		50	
50 PERCENT EXCEEDS	5.7		.00		4.3	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated



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 mi^2.

PERIOD OF RECORD.--Jan 1980 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.--The lake is formed by a rolled earthfill dam, 16,320 ft long, including the spillway. 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.--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, Sep 23, 2000, elevation, 501.43 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 60,310 acre-ft, May 2, 3, elevation, 505.23 ft; minimum contents, 44,930 acre-ft, Sep 24, elevation, 501.45 ft.

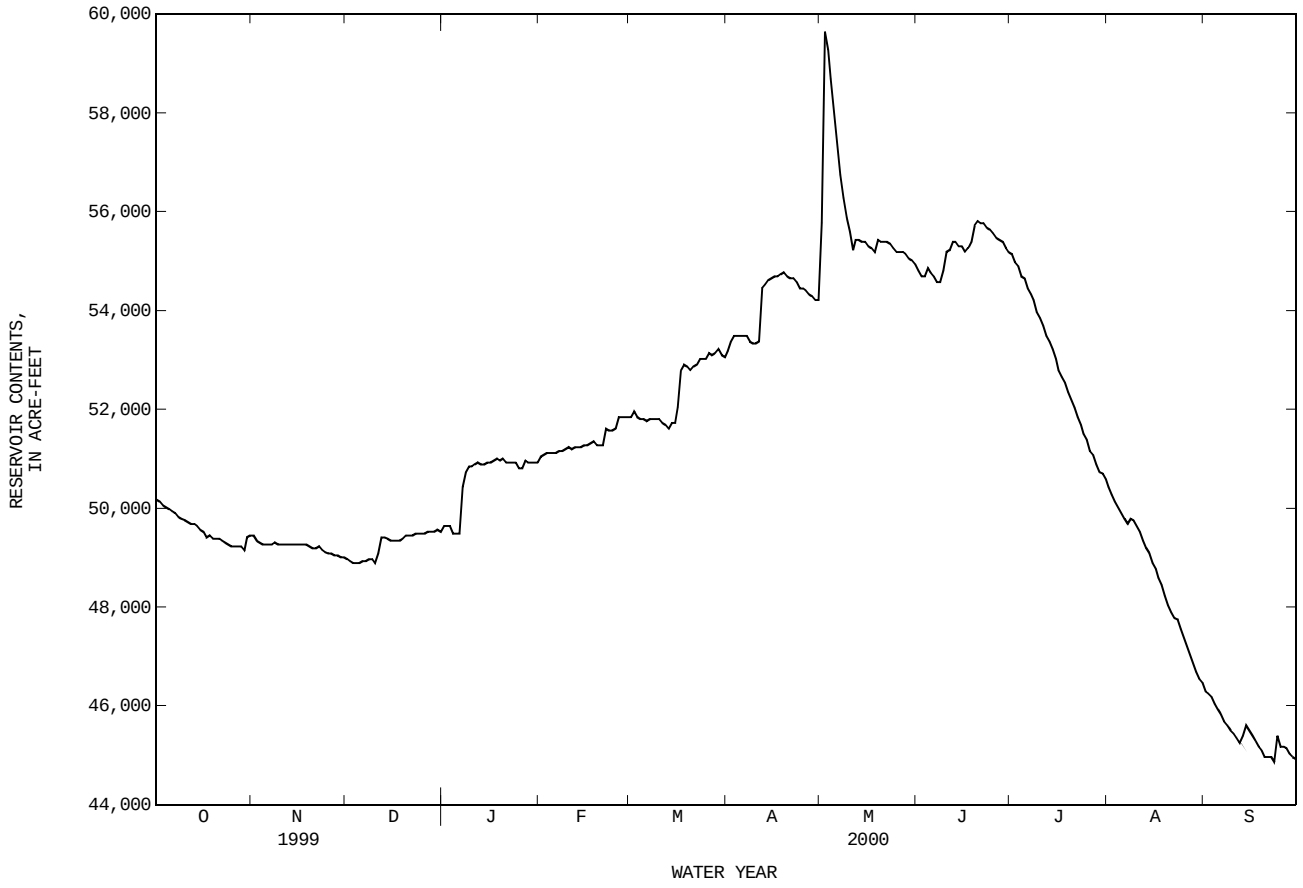
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50170	49460	48970	49640	51040	51850	53180	55770	54820	55140	50430	46290
2	50130	49340	48930	49640	51080	51970	53380	59640	54690	54980	50280	46260
3	50060	49300	48900	49640	51120	51850	53500	59280	54690	54900	50130	46180
4	50020	49270	48900	49490	51120	51810	53500	58690	54860	54690	50020	46040
5	49980	49270	48900	49490	51120	51810	53500	58100	54780	54650	49900	45930
6	49940	49270	48930	49490	51120	51770	53500	57440	54690	54450	49790	45820
7	49900	49270	48930	50430	51160	51810	53500	56740	54570	54330	49680	45680
8	49830	49300	48970	50740	51160	51810	53380	56270	54570	54210	49790	45610
9	49790	49270	48970	50850	51200	51810	53340	55890	54820	53970	49760	45500
10	49760	49270	48900	50850	51230	51810	53340	55600	55180	53850	49640	45430
11	49720	49270	49080	50890	51200	51730	53380	55230	55230	53690	49530	45360
12	49680	49270	49420	50930	51230	51700	54450	55430	55390	53500	49340	45250
13	49680	49270	49420	50890	51230	51620	54530	55430	55390	53380	49190	45390
14	49640	49270	49380	50890	51230	51730	54610	55390	55310	53220	49080	45610
15	49570	49270	49340	50930	51270	51730	54650	55390	55310	53020	48900	45500
16	49530	49270	49340	50930	51270	52040	54690	55310	55180	52780	48780	45390
17	49420	49270	49340	50970	51310	52780	54690	55270	55270	52670	48600	45290
18	49460	49270	49340	51000	51350	52900	54740	55180	55390	52550	48450	45180
19	49380	49230	49380	50970	51270	52860	54780	55430	55720	52360	48230	45110
20	49380	49190	49460	51000	51270	52780	54690	55390	55810	52200	48040	44970
21	49380	49190	49460	50930	51270	52860	54650	55390	55770	52040	47900	44970
22	49340	49230	49460	50930	51620	52900	54650	55390	55770	51850	47780	44970
23	49300	49160	49490	50930	51580	53020	54570	55350	55680	51700	47750	44860
24	49270	49120	49490	50930	51580	53020	54450	55270	55640	51500	47560	45390
25	49230	49080	49490	50810	51620	53020	54450	55180	55560	51390	47420	45180
26	49230	49080	49490	50810	51850	53140	54410	55180	55470	51160	47240	45180
27	49230	49040	49530	50970	51850	53100	54330	55180	55430	51080	47050	45140
28	49230	49040	49530	50930	51850	53140	54290	55140	55390	50890	46870	45040
29	49160	49010	49530	50930	51850	53220	54210	55060	55270	50740	46690	44970
30	49420	49010	49570	50930	---	53100	54210	55020	55180	50700	46540	44930
31	49460	---	49530	50930	---	53060	---	54940	---	50590	46470	---
MAX	50170	49460	49570	51000	51850	53220	54780	59640	55810	55140	50430	46290
MIN	49160	49010	48900	49490	51040	51620	53180	54940	54570	50590	46470	44860
(+)	502.64	502.53	502.66	503.02	503.24	503.54	503.82	503.99	504.05	502.93	501.86	501.45
(@)	-820	-450	+520	+1400	+920	+1210	+1150	+730	+240	-4590	-4120	-1540

CAL YR 1999 MAX 64880 MIN 48900 (@) -6190
WTR YR 2000 MAX 59640 MIN 44860 (@) -5350

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

08105600 GRANGER LAKE NEAR GRANGER, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1965 to current year.
Water-quality records.--Chemical data: Jul 1972 to Aug 1989. Biochemical data: Jul 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.--Records fair. Since water year, 1980, at least 10% of contributing drainage area has been regulated by Granger Lake (station 08105600, conservation pool storage 54,280 acre-ft). No known diversions. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1966-79), 289 ft^3/s (209,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1965-79).--Maximum discharge, 31,200 ft^3/s Oct 31, 1974 (gage height, 30.80 ft); minimum daily, 0.28 ft^3/s Aug 25-28, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1910, 39.6 ft, occurred Sep 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	5.7	6.7	14	6.4	4.9	11	13	9.0	5.3	33	2.9
2	7.0	6.9	6.9	15	6.2	5.1	8.5	190	8.9	4.6	33	2.9
3	7.2	7.0	7.8	15	5.9	5.5	10	392	9.0	4.1	34	2.9
4	7.2	6.7	7.5	15	5.9	5.3	6.6	388	10	4.1	31	2.7
5	6.7	6.5	7.8	15	5.8	5.5	6.7	387	9.5	12	2.8	2.7
6	6.8	6.5	8.1	16	5.9	5.3	6.9	384	8.8	31	.97	2.7
7	6.7	6.3	8.3	31	6.0	5.2	7.0	382	8.2	30	.81	2.7
8	6.8	6.2	8.7	16	5.8	5.7	8.1	281	7.9	30	.75	2.9
9	6.7	6.3	9.4	6.9	5.9	5.8	13	192	9.2	30	.81	3.0
10	6.5	6.4	9.0	6.7	6.2	5.7	14	189	9.1	29	.91	3.1
11	6.6	6.4	e9.1	6.8	6.2	5.9	15	189	9.0	28	.86	3.2
12	6.6	6.3	e9.2	7.1	6.3	6.3	21	151	7.9	29	36	3.3
13	6.2	6.0	9.3	6.3	6.4	6.1	5.2	8.5	7.1	29	38	5.1
14	6.2	5.9	8.9	5.3	6.2	10	5.4	6.4	7.0	28	38	4.2
15	6.4	6.0	9.1	6.3	6.2	12	5.5	6.7	7.2	28	38	5.3
16	6.5	6.5	11	6.5	6.3	16	5.9	7.1	7.6	26	36	4.4
17	7.5	6.6	11	6.4	6.3	17	5.9	6.9	9.0	21	35	4.0
18	6.9	6.8	12	6.4	6.3	6.4	5.9	7.1	7.7	9.4	35	4.0
19	6.8	7.2	11	6.4	6.1	7.1	5.7	8.0	7.4	27	34	4.4
20	6.4	7.0	12	6.4	6.4	7.5	5.7	8.7	7.2	27	33	4.6
21	6.2	6.9	11	6.2	6.5	8.3	5.6	7.3	6.9	27	23	5.3
22	6.3	6.8	9.9	6.5	6.6	7.9	5.5	6.8	6.7	27	3.3	5.1
23	6.2	7.1	9.5	6.5	8.3	9.6	5.7	5.3	6.6	29	3.0	4.8
24	6.3	6.8	9.3	6.3	5.0	8.9	5.8	5.2	6.2	29	13	6.1
25	6.4	7.2	9.3	6.2	4.9	7.5	5.7	6.5	4.2	30	41	6.6
26	6.4	6.9	9.6	6.2	7.2	8.7	5.7	6.7	3.1	22	41	4.8
27	6.5	7.0	9.5	7.9	5.1	8.7	5.5	6.9	3.5	30	41	4.6
28	6.6	7.0	9.0	6.2	5.3	7.6	5.4	7.8	4.3	30	40	4.5
29	6.5	6.8	10	6.2	4.8	12	5.3	9.2	5.0	31	40	4.6
30	6.8	6.7	12	6.2	---	9.8	5.3	9.0	4.7	32	30	4.7
31	5.6	---	14	6.2	---	9.7	---	8.8	---	32	3.2	---
TOTAL	204.4	198.4	295.9	285.1	176.4	247.0	228.5	3276.9	217.9	751.5	740.41	122.1
MEAN	6.59	6.61	9.55	9.20	6.08	7.97	7.62	106	7.26	24.2	23.9	4.07
MAX	7.5	7.2	14	31	8.3	17	21	392	10	32	41	6.6
MIN	5.6	5.7	6.7	5.3	4.8	4.9	5.2	5.2	3.1	4.1	.75	2.7
AC-FT	405	394	587	565	350	490	453	6500	432	1490	1470	242

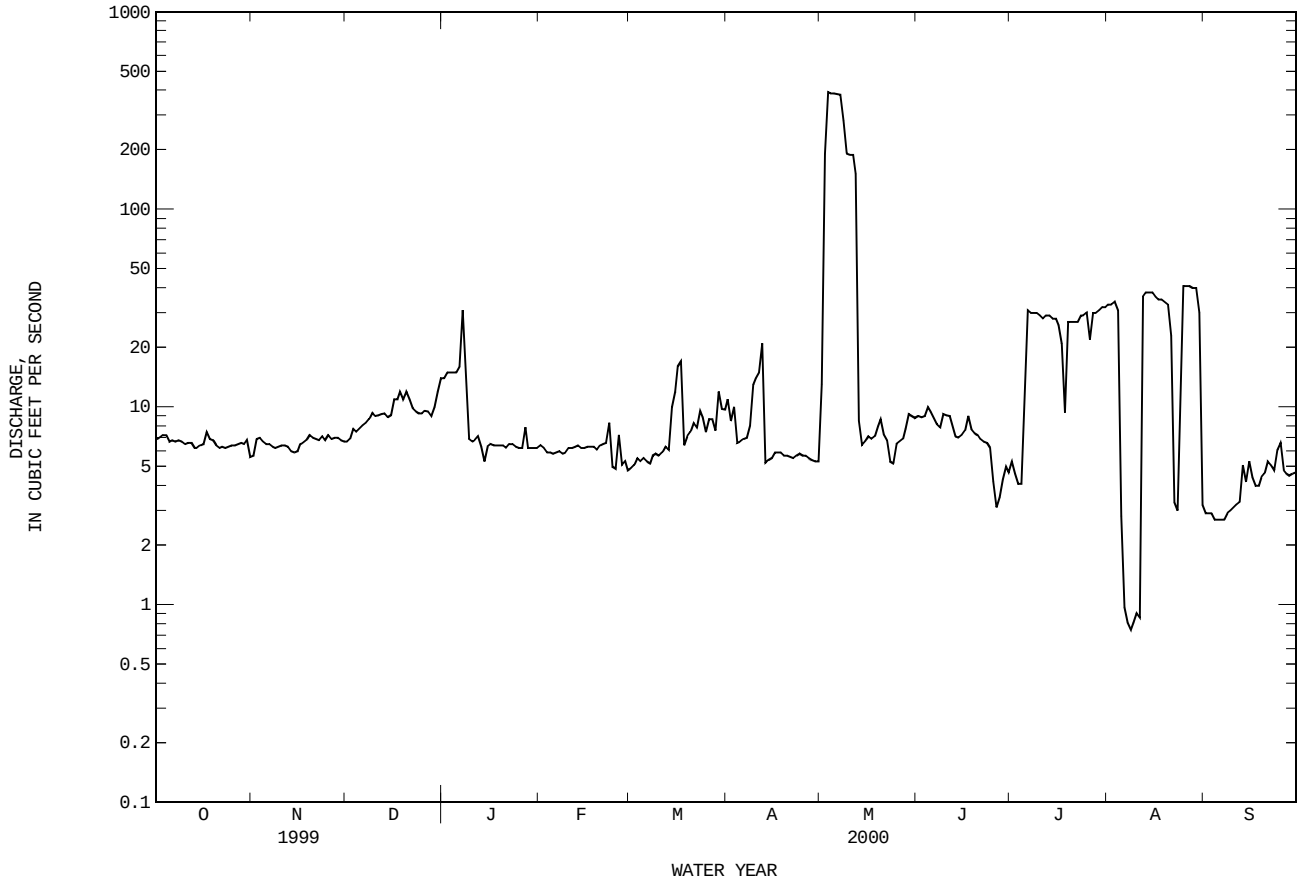
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000z, BY WATER YEAR (WY)

MEAN	88.9	129	206	253	286	394	303	415	460	388	36.0	77.5
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

08105700 SAN GABRIEL RIVER AT LANEPORT, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000z	
ANNUAL TOTAL	45591.1		6744.51			
ANNUAL MEAN	125		18.4		253	
HIGHEST ANNUAL MEAN					1015	1992
LOWEST ANNUAL MEAN					18.4	2000
HIGHEST DAILY MEAN	1170	May 13	392	May 3	6870	Mar 5 1992
LOWEST DAILY MEAN	3.7	Jan 24	.75	Aug 8	.00	Aug 21 1984
ANNUAL SEVEN-DAY MINIMUM	4.1	Jan 22	1.1	Aug 5	.00	Aug 21 1984
INSTANTANEOUS PEAK FLOW			410	May 2	7540	Mar 5 1992
INSTANTANEOUS PEAK STAGE			7.27	May 2	21.86	Mar 5 1992
ANNUAL RUNOFF (AC-FT)	90430		13380		183200	
10 PERCENT EXCEEDS	383		30		835	
50 PERCENT EXCEEDS	40		6.8		29	
90 PERCENT EXCEEDS	6.3		4.6		3.8	

e Estimated
z Period of regulated streamflow.



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 mi^2.

PERIOD OF RECORD.--Feb 1981 to current year (daily mean discharges less than 1,000 ft^3/s).

GAGE.--Water-stage recorder. Datum of gage is 299.12 ft above sea level. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage in 1981, at least 10% of contributing drainage area has been regulated by Belton Lake (station 08102000), Stillhouse Hollow Lake (station 08104050), and Granger Lake (station 08105600), combined conservation pool storage 714,840 acre-ft. 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 with a combined detention capacity of 46,140 acre-ft. These structures control runoff from 144 mi^2, in the Brushy Creek drainage basin. The Aluminum Company of America diverts water from Little River to their plant reservoir. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 38.34 ft Dec 21, 1991 (maximum discharge not determined); minimum daily discharge 13.0 ft^3/s May 9, 1984.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	225	64	91	85	349	115	116	86	56	56	162
2	96	126	66	94	104	207	104	---	93	65	65	162
3	92	93	74	95	173	171	277	---	89	56	58	145
4	98	79	74	95	168	150	792	---	93	55	54	52
5	94	79	70	94	124	135	360	---	101	55	50	29
6	90	77	62	91	115	128	191	---	115	55	45	36
7	91	78	59	123	108	128	147	654	117	62	e38	45
8	90	78	67	285	108	126	124	580	84	64	e36	34
9	91	78	73	729	108	121	109	380	78	59	e37	29
10	91	71	70	298	109	125	116	360	189	58	e43	32
11	103	73	89	179	106	130	121	352	564	61	42	48
12	115	74	92	145	103	116	---	344	386	57	37	59
13	114	69	130	126	104	119	---	261	243	55	32	72
14	115	70	230	117	104	114	---	225	171	55	51	88
15	110	73	130	108	102	116	506	238	148	55	54	94
16	110	71	87	103	101	115	358	166	123	55	53	80
17	116	71	74	105	101	188	257	141	101	62	61	48
18	123	79	72	106	89	559	188	128	98	73	166	36
19	132	90	74	104	75	394	173	132	188	72	185	33
20	133	90	80	86	72	204	170	556	548	74	186	30
21	120	89	79	73	72	131	156	237	344	69	189	29
22	99	89	92	73	72	107	144	183	180	68	190	27
23	94	91	104	71	89	103	134	138	123	64	178	28
24	94	93	104	71	321	109	129	100	97	65	164	33
25	89	95	98	72	236	105	122	82	81	64	153	52
26	90	94	95	71	184	103	116	76	73	64	178	837
27	91	96	95	79	---	92	111	75	69	54	185	236
28	79	96	92	93	---	88	105	92	60	67	181	98
29	74	93	96	158	---	91	99	148	56	60	179	78
30	74	75	93	120	---	150	93	168	57	52	186	65
31	78	---	92	90	---	224	---	96	---	50	191	---
TOTAL	3084	2655	2777	4145	---	4998	---	---	4755	1881	3323	2797
MEAN	99.5	88.5	89.6	134	---	161	---	---	158	60.7	107	93.2
MAX	133	225	230	729	---	559	---	---	564	74	191	837
MIN	74	69	59	71	---	88	---	---	56	50	32	27
AC-FT	6120	5270	5510	8220	---	9910	---	---	9430	3730	6590	5550

e Estimated

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08106500 LITTLE RIVER AT CAMERON, TX

LOCATION (REVISED).--Lat 30°50′06", long 96°56′47", Milam County, Hydrologic Unit 12070204, on right bank at bridge on U.S. Highway 77, 2,020 ft downstream from old McCowan bridge, 0.7 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2 mi southeast of Cameron, and 33.2 mi upstream from mouth.

DRAINAGE AREA.--7,065 mi^2.

PERIOD OF RECORD.--Nov 1916 to current year.
Water-quality records.--Chemical data: Jan 1968 to Aug 1997. Biochemical data: Jan 1968 to Aug 1997. Sediment data: Feb 1978 to Jul 1993.

REVISED RECORDS.--WSP 718: 1918-20, 1922. WSP 1512: 1918-20(M), 1921, 1922(M), 1924(M), 1926, 1929-30, 1934, 1935(M), 1936, 1940(M), 1941, 1944-45(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 281.89 ft above sea level (levels by U.S. Army Corps of Engineers). Nov 1916 to Sep 1922, nonrecording gage at site 2.2 mi upstream at different datum. Oct 1922, to Apr 1926, nonrecording gage at McCowan bridge 1,990 ft upstream at same datum. Apr 1926 to Oct 1933, non-recording gage at same location but at l.58 ft lower datum. Oct 1933 to Aug 1992, recording gage at site 2,020 ft upstream at same datum. Aug to Oct 1992, non-recording gage at site. Satellite telemeter at station.

REMARKS.--Records fair. Many small diversions for irrigation and municipal supply affect low flows. Since water year 1954, at least 10% of the drainage area has been regulated by Belton Lake (station 08102000, conservation pool storage 434,500 acre-ft). The Aluminum Co. of America diverts water 10.9 mi upstream from the gage for use at their Rockdale plant. The city of Cameron diverts water for municipal use 2.1 mi upstream from gage. Wastewater effluent is returned to the river upstream from gage. Flow is slightly affected at times by discharge from the flood-detention pools of 65 floodwater-retarding structures with a combined detention capacity of 68,500 acre-ft. These structures control runoff from 209 mi^2 in the Nolan, Donahoe, and Brushy Creeks drainage basins. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1918-53), prior to regulation by Belton Lake, 1,807 ft^3/s (1,309,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1917-53).--Maximum discharge since 1852, 647,000 ft^3/s Sep 10, 1921 (gage height, 53.2 ft, present datum, from floodmark), from rating curve extended above 110,000 ft^3/s on basis of slope-area measurement of 647,000 ft^3/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1852 reached about the same stage as that of Sep 10, 1921. Flood in Dec 1913, reached a stage of 49.0 ft. Stages based on information furnished by local resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	231	64	121	122	448	180	166	85	e65	58	165
2	105	187	76	123	135	263	147	4000	101	e67	77	154
3	100	122	77	125	196	228	237	5820	94	e66	71	165
4	103	85	97	124	252	207	768	1810	106	e61	68	86
5	105	82	84	125	190	190	446	1350	107	e58	64	39
6	94	78	70	123	169	180	254	2880	125	e57	52	29
7	99	76	61	182	160	179	204	715	141	e56	35	49
8	98	78	72	329	151	177	174	576	100	e48	39	47
9	98	81	84	762	150	173	154	391	84	e44	26	36
10	100	68	92	430	152	173	152	328	133	e42	24	31
11	105	69	92	261	151	190	167	328	553	37	41	42
12	134	71	139	218	145	166	936	321	527	35	39	67
13	135	70	121	190	144	171	4570	291	312	29	31	83
14	137	62	288	175	145	163	1270	204	217	28	35	100
15	132	68	210	162	143	164	553	264	188	28	55	118
16	130	70	129	153	140	165	370	189	164	30	53	95
17	142	65	98	150	141	208	296	155	133	38	53	71
18	149	76	88	155	135	504	238	137	125	66	131	49
19	162	96	87	150	103	486	211	136	194	66	182	40
20	164	105	95	135	86	276	214	473	475	75	185	38
21	160	102	106	99	71	210	199	294	403	68	190	33
22	122	103	103	96	71	162	188	202	239	66	191	35
23	107	105	142	94	72	e151	175	168	167	66	182	25
24	109	107	145	92	178	e146	170	116	129	66	171	39
25	100	113	135	93	240	e141	162	83	110	67	157	53
26	99	106	128	92	138	e135	155	68	88	67	166	595
27	101	114	129	104	1040	128	149	66	e76	63	178	319
28	93	114	124	124	1300	118	145	82	e73	63	176	112
29	67	115	126	186	1100	128	138	99	e69	76	174	76
30	83	103	127	202	---	132	129	207	e67	61	175	63
31	70	---	122	136	---	276	---	115	---	57	179	---
TOTAL	3502	2922	3511	5511	7220	6438	13151	22034	5385	1716	3258	2854
MEAN	113	97.4	113	178	249	208	438	711	180	55.4	105	95.1
MAX	164	231	288	762	1300	504	4570	5820	553	76	191	595
MIN	67	62	61	92	71	118	129	66	67	28	24	25
AC-FT	6950	5800	6960	10930	14320	12770	26090	43700	10680	3400	6460	5660

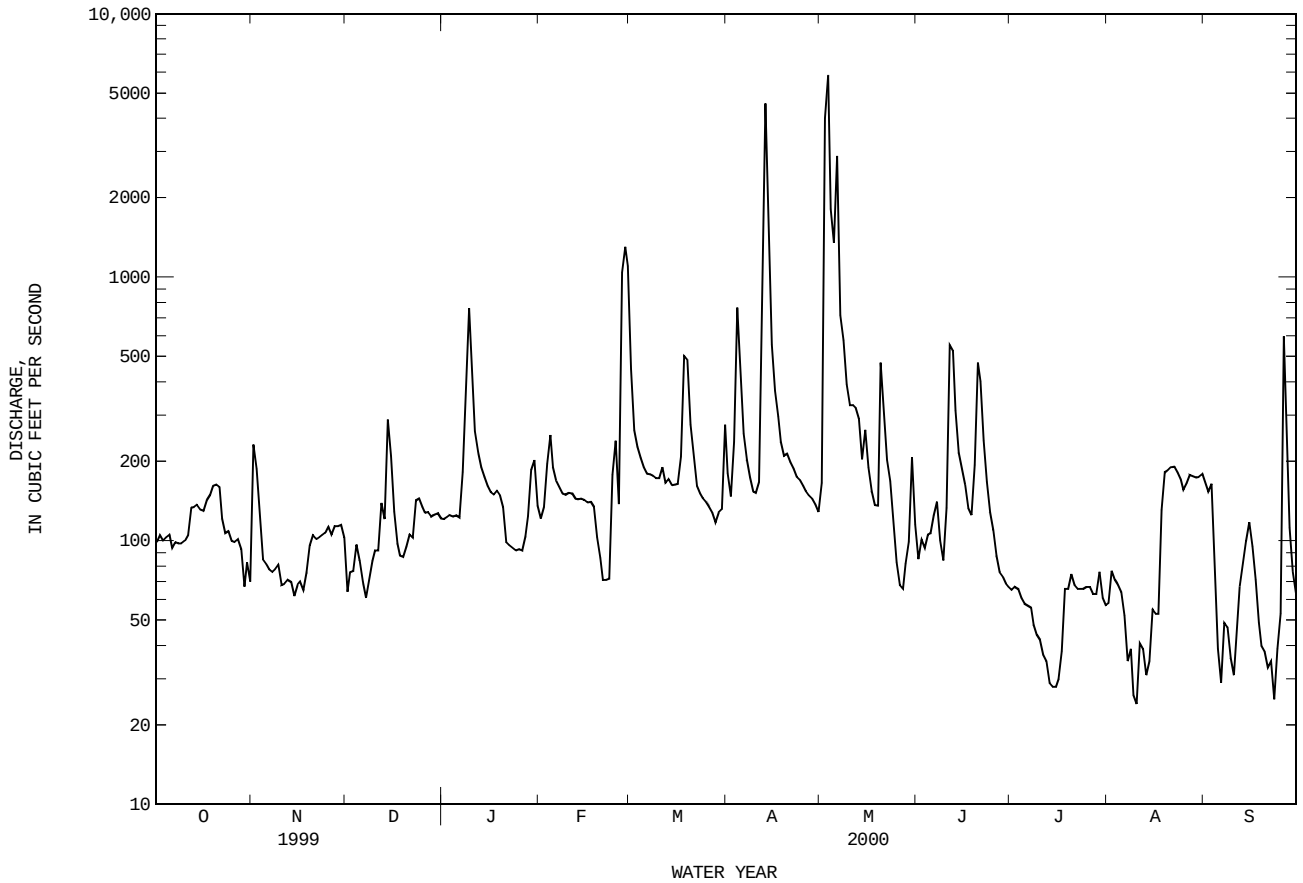
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000z, BY WATER YEAR (WY)

MEAN	1265	1005	1360	1656	2032	2096	2331	3197	2661	1622	606	584
MAX	10140	5063	8579	9662	13030	14420	10750	12970	11330	9426	5106	3141
(WY)	1960	1975	1992	1992	1992	1992	1997	1965	1957	1992	1992	1974
MIN	17.2	18.4	23.0	34.5	50.2	22.8	16.5	132	15.1	1.58	6.24	4.40
(WY)	1955	1956	1955	1956	1957	1956	1956	1984	1954	1956	1954	1956

08106500 LITTLE RIVER AT CAMERON, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000z	
ANNUAL TOTAL	251669		77502			
ANNUAL MEAN	690		212		1699	
HIGHEST ANNUAL MEAN					7759	1992
LOWEST ANNUAL MEAN					174	1956
HIGHEST DAILY MEAN	6180	Mar 20	5820	May 3	84200	May 18 1965
LOWEST DAILY MEAN	61	Dec 7	24	Aug 10	.00	Jul 12 1956
ANNUAL SEVEN-DAY MINIMUM	68	Nov 11	32	Jul 11	.00	Jul 12 1956
INSTANTANEOUS PEAK FLOW			6900	May 3	116000	Apr 5 1957
INSTANTANEOUS PEAK STAGE			13.43	May 3	39.56	Apr 5 1957
ANNUAL RUNOFF (AC-FT)	499200		153700		1231000	
10 PERCENT EXCEEDS	1800		295		4940	
50 PERCENT EXCEEDS	406		125		475	
90 PERCENT EXCEEDS	95		54		67	

e Estimated
z Period of regulated streamflow.



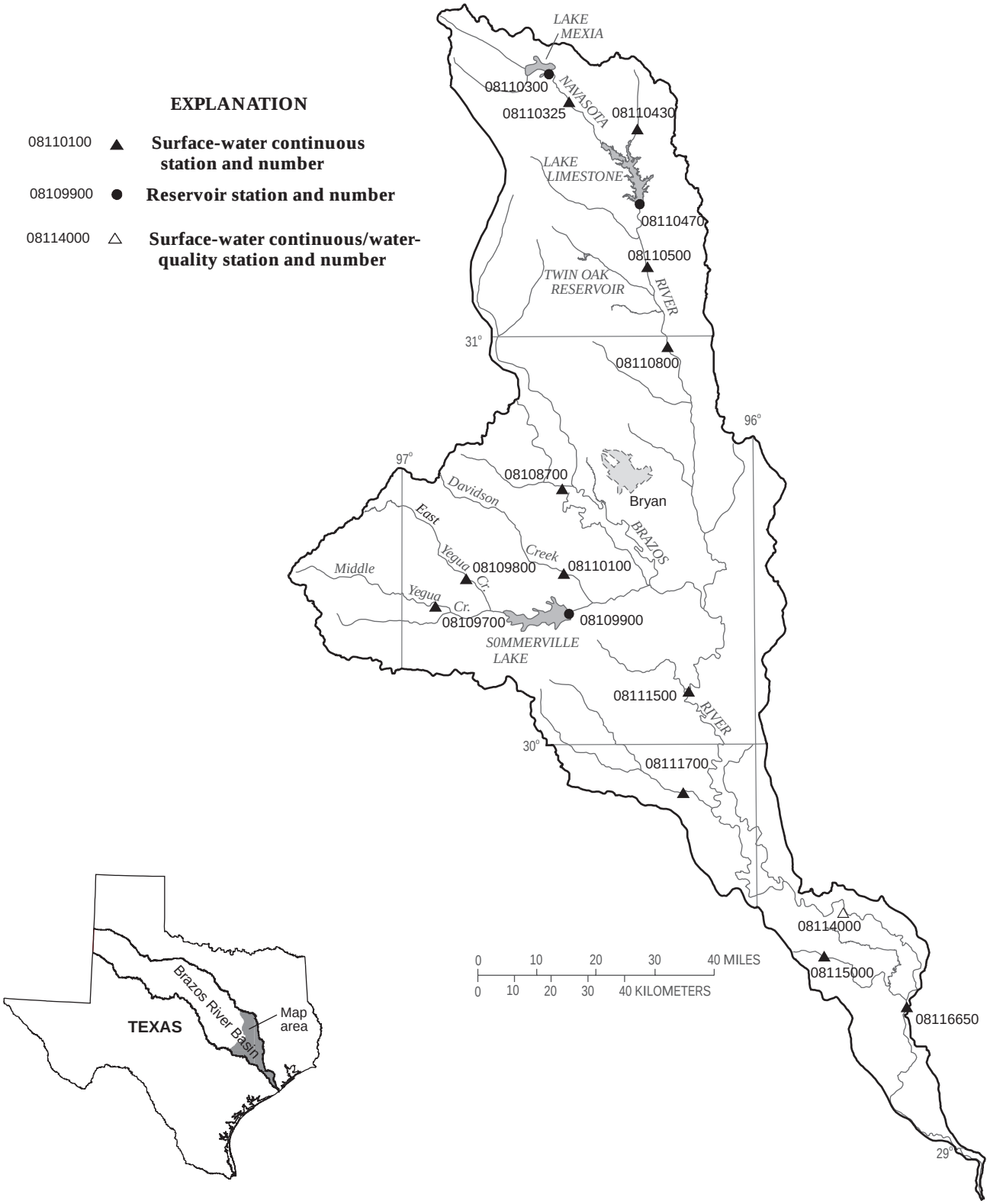


Figure 9.--Map showing location of gaging stations in the fourth section of the Brazos River Basin

08108700 Brazos River at State Highway 21 near Bryan, TX 434
08109700 Middle Yegua River near Dime Box, TX 436
08109800 East Yegua Creek near Dime Box, TX 438
08109900 Somerville Lake near Somerville, TX 440
08110100 Davidson Creek near Lyons, TX 442
08110300 Lake Mexia near Mexia, TX 444
08110325 Navasota River above Groesbeck, TX 448
08110430 Big Creek near Freestone, TX 450
08110470 Lake Limestone near Marquez, TX 452
08110500 Navasota River near Easterly, TX 454
08110800 Navosota River at OSR near Bryan, TX 456
08111500 Brazos River near Hempstead, TX 458
08111700 Mill Creek near Bellville, TX 460
08114000 Brazos River at Richmond, TX 462
08115000 Big Creek near Needville, TX 466
08116650 Brazos River near Rosharon, TX 468

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 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Jul 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 fair. Since installation of gage in 1993, at least 10% of contributing drainage area has been regulated by six upstream reservoirs with a combined capacity of 4,828,600 acre-ft, of which 3,482,690 acre-ft is for flood control. 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 with a combined detention capacity of 152,800 acre-ft. These structures control runoff from 450 mi^2. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

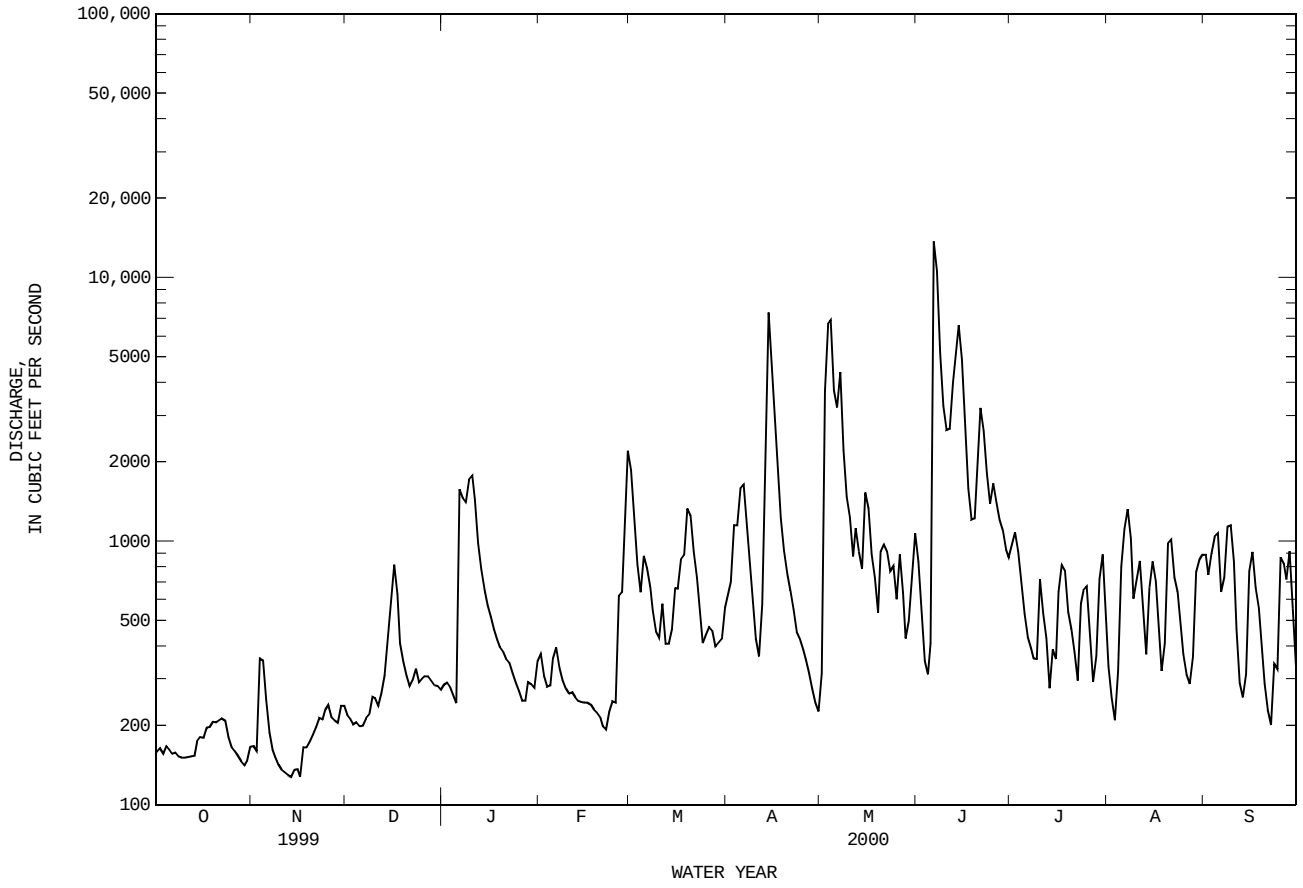
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	167	219	286	374	1860	621	314	838	973	334	890
2	163	160	212	291	309	1240	705	3710	546	1080	254	743
3	156	359	202	281	281	814	1150	6670	352	911	209	898
4	167	354	205	261	284	638	1150	6870	312	679	319	1040
5	162	249	199	243	359	877	1580	3750	408	528	801	1070
6	156	189	200	1570	396	791	1640	3210	13700	433	1110	644
7	158	162	212	1460	332	672	1130	4370	10600	394	1320	733
8	153	152	220	1410	297	543	800	2210	5180	360	1020	1140
9	151	142	257	1710	276	455	571	1470	3260	358	603	1150
10	151	136	254	1770	264	431	428	1230	2650	714	721	835
11	152	133	238	1440	267	579	366	874	2670	533	839	466
12	153	130	266	984	256	409	575	1120	3990	428	535	291
13	154	128	311	783	248	408	2450	916	4960	276	372	255
14	174	136	420	657	246	465	7360	786	6590	388	665	313
15	181	137	566	571	244	666	4060	1530	4900	358	838	767
16	180	128	815	517	245	660	2540	1340	2890	643	703	911
17	197	165	628	463	240	852	1650	889	1580	813	496	664
18	198	165	411	422	230	883	1220	728	1210	774	321	557
19	207	174	351	397	223	1330	922	536	1220	542	408	402
20	205	185	310	382	215	1250	756	915	2070	466	979	288
21	209	198	283	358	199	910	651	975	3200	379	1010	228
22	212	214	299	345	193	729	550	915	2620	295	730	201
23	209	211	328	316	226	522	453	771	1810	581	642	341
24	181	228	290	291	247	411	426	804	1380	650	486	327
25	165	239	301	271	244	442	388	601	1650	673	372	871
26	160	215	308	249	617	472	357	890	1400	459	313	822
27	153	209	307	248	640	458	317	636	1200	292	287	715
28	146	205	296	293	1330	398	276	427	1100	366	363	915
29	141	238	285	287	2200	411	244	501	928	720	764	553
30	147	238	283	278	---	426	226	713	869	887	851	333
31	166	---	273	352	---	563	---	1070	---	552	888	---
TOTAL	5265	5746	9749	19186	11482	21565	35562	51741	86083	17505	19553	19363
MEAN	170	192	314	619	396	696	1185	1669	2869	565	631	645
MAX	212	359	815	1770	2200	1860	7360	6870	13700	1080	1320	1150
MIN	141	128	199	243	193	398	226	314	312	276	209	201
AC-FT	10440	11400	19340	38060	22770	42770	70540	102600	170700	34720	38780	38410

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

MEAN	2834	2533	5045	4742	5437	9257	7361	6964	5315	2274	2284	1541
MAX	11490	8769	8890	16460	21210	31650	26320	20120	16320	9389	11420	4577
(WY)	1999	1999	1999	1998	1997	1997	1997	1997	1997	1997	1995	1996
MIN	170	192	314	619	396	696	673	448	1113	565	548	213
(WY)	2000	2000	2000	2000	2000	2000	1996	1996	1999	2000	1996	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	521908		302800			
ANNUAL MEAN	1430		827		4652	
HIGHEST ANNUAL MEAN					11920	1997
LOWEST ANNUAL MEAN					827	2000
HIGHEST DAILY MEAN	18900	Jan 31	13700	Jun 6	76600	Oct 20 1998
LOWEST DAILY MEAN	125	Sep 22	128	Nov 13	125	Sep 22 1999
ANNUAL SEVEN-DAY MINIMUM	130	Sep 20	133	Nov 10	130	Sep 20 1999
INSTANTANEOUS PEAK FLOW			16700	Jun 6	78600	Oct 20 1998
INSTANTANEOUS PEAK STAGE			19.78	Jun 6	42.55	Oct 20 1998
ANNUAL RUNOFF (AC-FT)	1035000		600600		3370000	
10 PERCENT EXCEEDS	3210		1540		13100	
50 PERCENT EXCEEDS	1040		428		1330	
90 PERCENT EXCEEDS	157		178		432	

08108700 BRAZOS RIVER AT STATE HIGHWAY 21 NR BRYAN, TX--Continued



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 mi^2.

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). Jun 30 to Jul 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1851, 16 ft in Dec 1913, from information by local residents.

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

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

No peak greater than base discharge.

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

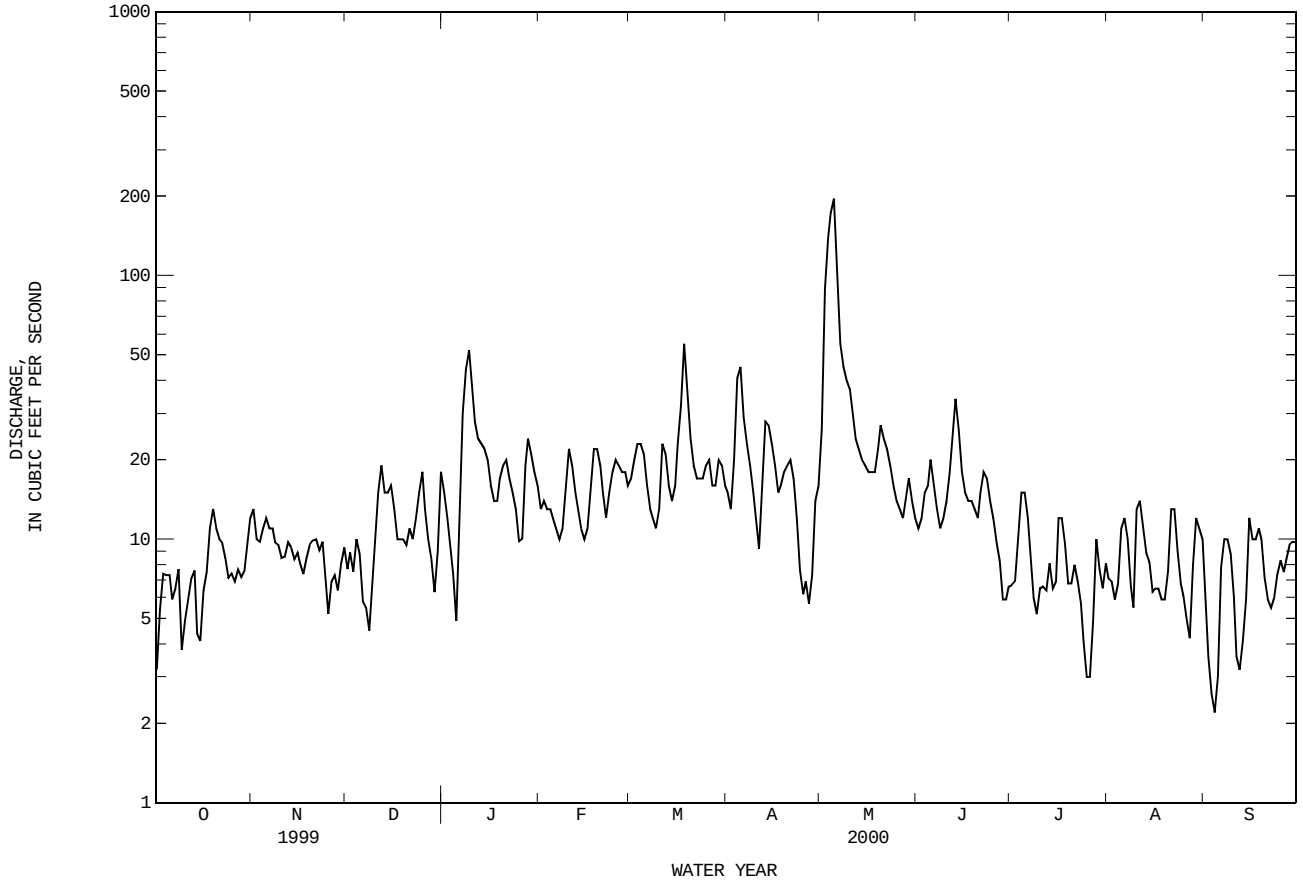
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	13	7.7	15	13	17	15	26	11	6.7	7.1	6.0
2	5.4	10	8.9	12	14	20	13	89	12	6.9	6.9	3.6
3	7.4	9.8	7.5	9.7	13	23	20	139	15	10	5.9	2.6
4	7.3	11	10	7.4	13	23	41	173	16	15	6.8	2.2
5	7.3	12	8.8	4.9	12	21	45	196	20	15	11	3.0
6	5.9	11	5.8	15	11	16	29	99	16	12	12	7.8
7	6.5	11	5.5	30	10	13	23	55	13	8.2	10	10
8	7.7	9.7	4.5	44	11	12	19	45	11	6.0	6.6	10
9	3.8	9.5	6.8	52	16	11	15	40	12	5.2	5.5	8.8
10	4.9	8.5	10	37	22	13	12	37	14	6.5	13	6.0
11	5.9	8.6	15	28	19	23	9.2	29	18	6.6	14	3.6
12	7.1	9.7	19	24	15	21	15	24	25	6.4	11	3.2
13	7.6	9.3	15	23	13	16	28	22	34	8.1	8.9	4.1
14	4.4	8.4	15	22	11	14	27	20	26	6.5	8.2	5.9
15	4.1	8.9	16	20	10	16	23	19	18	6.9	6.3	12
16	6.4	8.1	13	16	11	23	19	18	15	12	6.5	10
17	7.5	7.4	10	14	15	32	15	18	14	12	6.5	10
18	11	8.5	10	14	22	55	16	18	14	9.6	5.9	11
19	13	9.5	10	17	22	36	18	22	13	6.8	5.9	10
20	11	9.9	9.5	19	19	24	19	27	12	6.8	7.5	7.1
21	10	10	11	20	15	19	20	24	15	8.0	13	5.9
22	9.7	9.1	10	17	12	17	17	22	18	6.9	13	5.5
23	8.5	9.8	12	15	15	17	12	19	17	5.7	9.0	6.0
24	7.1	7.6	15	13	18	17	7.6	16	14	4.1	6.8	7.4
25	7.4	5.2	18	9.8	20	19	6.2	14	12	3.0	6.1	8.3
26	6.9	6.9	13	10	19	20	6.9	13	9.8	3.0	5.0	7.5
27	7.7	7.3	10	19	18	16	5.7	12	8.3	4.9	4.2	8.4
28	7.2	6.4	8.4	24	18	16	7.3	14	5.9	10	7.9	9.5
29	7.6	8.1	6.3	21	16	20	14	17	5.9	7.7	12	9.8
30	9.3	9.3	9.0	18	---	19	16	14	6.6	6.5	11	9.8
31	12	---	18	16	---	16	---	12	---	8.1	10	---
TOTAL	230.8	273.5	338.7	606.8	443	625	533.9	1293	441.5	241.1	263.5	215.0
MEAN	7.45	9.12	10.9	19.6	15.3	20.2	17.8	41.7	14.7	7.78	8.50	7.17
MAX	13	13	19	52	22	55	45	196	34	15	14	12
MIN	3.2	5.2	4.5	4.9	10	11	5.7	12	5.9	3.0	4.2	2.2
AC-FT	458	542	672	1200	879	1240	1060	2560	876	478	523	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	33.9	51.8	80.3	64.9	86.0	63.1	55.8	113	97.3	7.01	2.48	16.5
MAX	385	528	694	481	891	280	355	662	1052	67.7	18.2	368
(WY)	1995	1999	1992	1991	1992	1970	1969	1975	1987	1975	1974	1974
MIN	.000	.000	.000	.006	.007	.65	.72	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1971	1971	1984	1984	1963	1962	1963

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	10555.7		5505.8			
ANNUAL MEAN	28.9		15.0		55.8	
HIGHEST ANNUAL MEAN					256	1992
LOWEST ANNUAL MEAN					.55	1964
HIGHEST DAILY MEAN	824	Mar 22	196	May 5	9470	Dec 22 1991
LOWEST DAILY MEAN	1.2	May 9	2.2	Sep 4	.00	Aug 1 1962
ANNUAL SEVEN-DAY MINIMUM	3.5	May 3	5.0	Aug 31	.00	Aug 1 1962
INSTANTANEOUS PEAK FLOW			204	May 5	12500	Dec 22 1991
INSTANTANEOUS PEAK STAGE			5.42	May 5	15.39	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	20940		10920		40410	
10 PERCENT EXCEEDS	37		23		79	
50 PERCENT EXCEEDS	11		12		6.4	
90 PERCENT EXCEEDS	5.4		5.9		.00	

08109700 MIDDLE YEGUA CREEK NEAR DIME BOX, TX--Continued



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 mi^2.

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: Jun 1966 to Sep 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.--No estimated daily discharges. Records good. No known regulation. Diversions above station for irrigation. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1886, 17 ft in 1899 and 1957, from information by local residents.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 4	0315	1,830	10.02	No other peak greater than base discharge.			

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

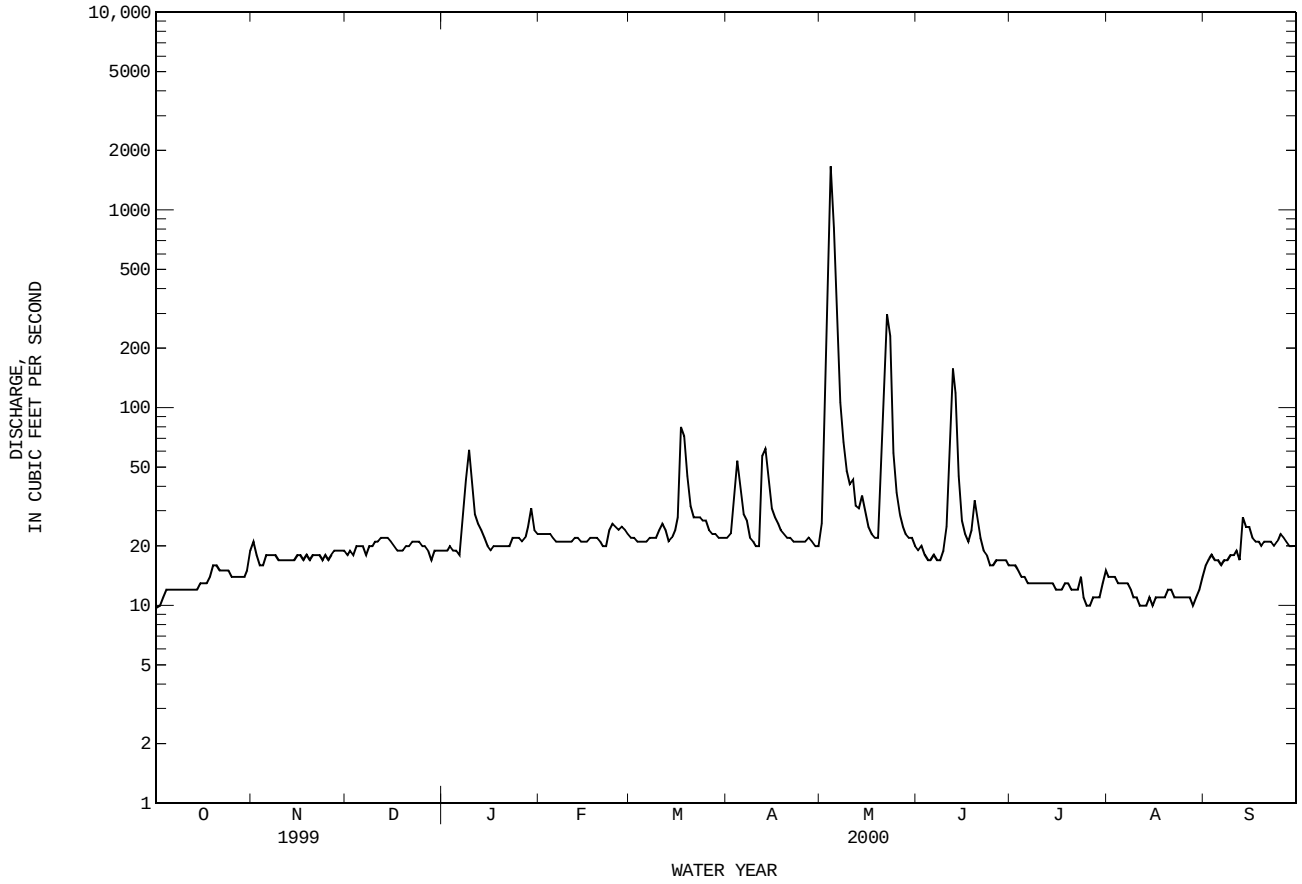
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	21	18	19	23	22	22	26	19	16	14	16
2	10	18	19	19	23	22	23	165	20	16	14	17
3	11	16	18	20	23	21	36	637	18	15	14	18
4	12	16	20	19	23	21	54	1660	17	14	13	17
5	12	18	20	19	22	21	39	810	17	14	13	17
6	12	18	20	18	21	21	29	254	18	13	13	16
7	12	18	18	28	21	22	27	106	17	13	13	17
8	12	18	20	43	21	22	22	67	17	13	12	17
9	12	17	20	61	21	22	21	48	19	13	11	18
10	12	17	21	41	21	24	20	41	25	13	11	18
11	12	17	21	29	21	26	20	43	74	13	10	19
12	12	17	22	26	22	24	57	32	158	13	10	17
13	12	17	22	24	22	21	62	31	119	13	10	28
14	12	17	22	22	21	22	44	36	45	13	11	25
15	13	18	21	20	21	24	31	30	27	12	10	25
16	13	18	20	19	21	28	28	25	23	12	11	22
17	13	17	19	20	22	80	26	23	21	12	11	21
18	14	18	19	20	22	72	24	22	24	13	11	21
19	16	17	19	20	22	45	23	22	34	13	11	20
20	16	18	20	20	21	32	22	66	27	12	12	21
21	15	18	20	20	20	28	22	156	22	12	12	21
22	15	18	21	20	20	28	21	297	19	12	11	21
23	15	17	21	22	24	28	21	231	18	14	11	20
24	15	18	21	22	26	27	21	59	16	11	11	21
25	14	17	20	22	25	27	21	37	16	10	11	23
26	14	18	20	21	24	24	21	29	17	10	11	22
27	14	19	19	22	25	23	22	25	17	11	11	21
28	14	19	17	25	24	23	21	23	17	11	10	20
29	14	19	19	31	23	22	20	22	17	11	11	20
30	15	19	19	24	---	22	20	22	16	13	12	20
31	19	---	19	23	---	22	---	20	---	15	14	---
TOTAL	411.8	533	615	759	645	866	840	5065	914	396	360	599
MEAN	13.3	17.8	19.8	24.5	22.2	27.9	28.0	163	30.5	12.8	11.6	20.0
MAX	19	21	22	61	26	80	62	1660	158	16	14	28
MIN	9.8	16	17	18	20	21	20	20	16	10	10	16
AC-FT	817	1060	1220	1510	1280	1720	1670	10050	1810	785	714	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	42.6	52.0	78.2	70.5	99.3	76.6	73.2	119	107	17.6	8.59	23.2
MAX	503	562	651	418	934	276	364	656	813	221	67.1	506
(WY)	1995	1999	1992	1991	1992	1992	1976	1975	1987	1968	1974	1974
MIN	.000	.023	.77	2.55	3.65	3.89	1.00	2.98	.91	.001	.000	.000
(WY)	1964	1964	1964	1990	1990	1972	1972	1984	1971	1967	1962	1963

08109800 EAST YEGUA CREEK NEAR DIME BOX, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	13949.9		12003.8			
ANNUAL MEAN	38.2		32.8		63.7	
HIGHEST ANNUAL MEAN					245	1992
LOWEST ANNUAL MEAN					3.93	1971
HIGHEST DAILY MEAN	1080	Mar 20	1660	May 4	9490	May 24 1975
LOWEST DAILY MEAN	8.2	Aug 22	9.8	Oct 1	.00	Aug 1 1962
ANNUAL SEVEN-DAY MINIMUM	8.9	Aug 17	10	Aug 9	.00	Aug 1 1962
INSTANTANEOUS PEAK FLOW			1830	May 4	14000	May 24 1975
INSTANTANEOUS PEAK STAGE			10.02	May 4	13.91	May 24 1975
ANNUAL RUNOFF (AC-FT)	27670		23810		46160	
10 PERCENT EXCEEDS	50		31		73	
50 PERCENT EXCEEDS	21		20		12	
90 PERCENT EXCEEDS	11		12		.32	



08109900 SOMERVILLE LAKE NEAR SOMERVILLE, TX

LOCATION.--Lat 30°19'20", long 96°31'32", Burleson 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 mi^2.

PERIOD OF RECORD.--Feb 1966 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.--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 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.--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, 145,100 acre-ft, Feb 26, elevation, 237.09 ft; minimum contents, 100,700 acre-ft, Sep 15, elevation, 232.54 ft.

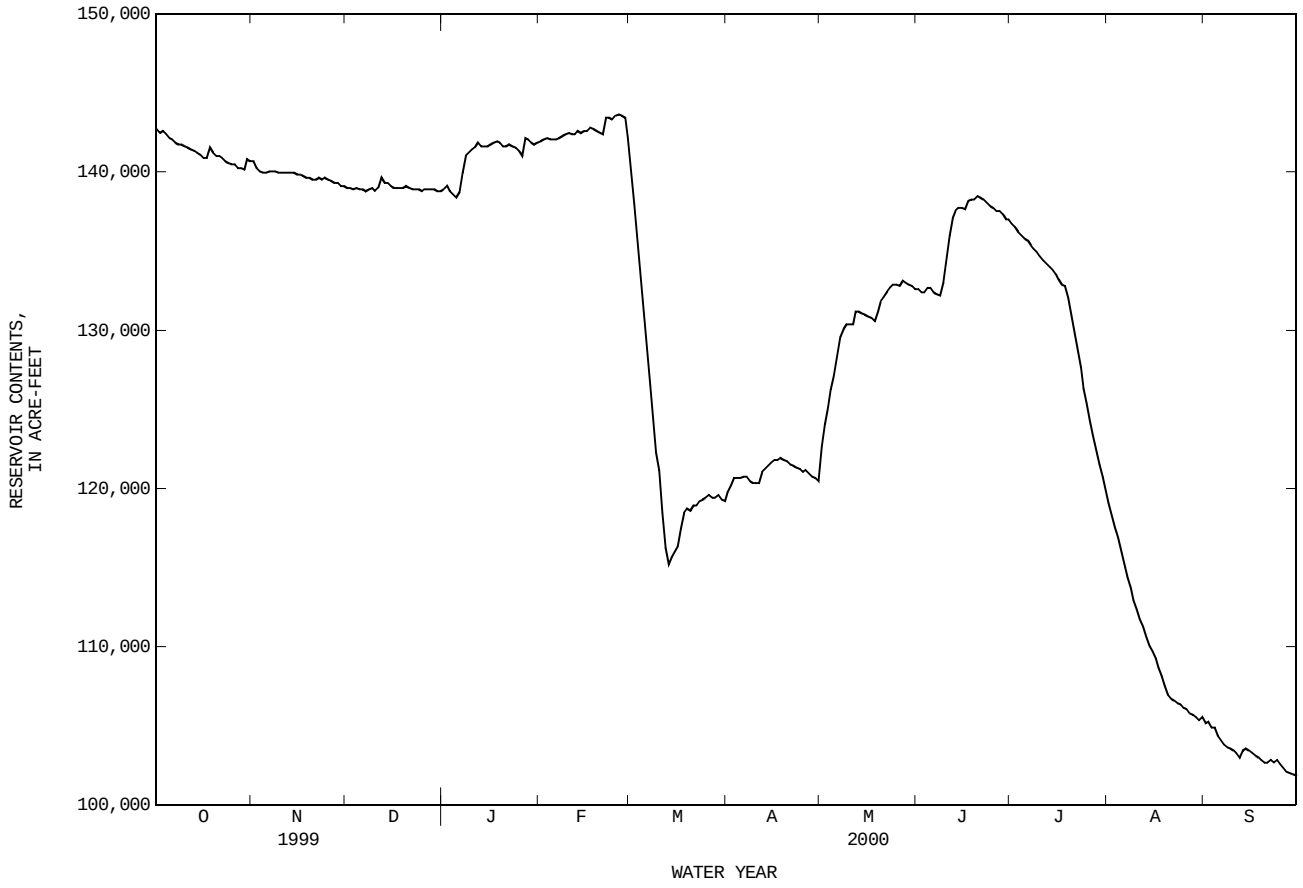
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142700	140700	139000	138900	142000	140000	119800	122600	132600	136700	119100	105200
2	142500	140300	139000	139100	142100	138000	120200	124100	132400	136500	118300	105200
3	142600	140100	138900	138800	142200	135500	120700	125200	132400	136200	117600	104900
4	142400	140000	139000	138600	142100	133000	120700	126300	132700	136000	116900	104900
5	142200	140000	138900	138400	142100	130800	120700	127200	132700	135800	116100	104400
6	142100	140100	138900	138700	142100	128700	120800	128400	132400	135700	115200	104100
7	141900	140100	138800	140000	142200	126600	120800	129600	132300	135400	114400	103800
8	141800	140100	138900	141000	142300	124500	120500	130100	132200	135200	113700	103600
9	141800	140000	139000	141200	142400	122300	120400	130400	133000	135000	113000	103500
10	141700	140000	138800	141400	142500	121100	120400	130400	134500	134700	112400	103500
11	141500	140000	139000	141500	142400	118400	120400	130400	136000	134500	111700	103300
12	141400	140000	139700	141900	142400	116200	121000	131200	137100	134200	111300	103000
13	141300	140000	139300	141700	142600	115200	121200	131200	137600	134000	110600	103500
14	141200	140000	139300	141700	142500	115700	121400	131100	137800	133800	110100	103500
15	141100	139900	139100	141700	142600	116100	121600	131000	137800	133500	109700	103500
16	140900	139900	139000	141800	142600	116300	121800	130900	137700	133200	109300	103300
17	140900	139800	139000	141900	142800	117500	121800	130800	138200	132900	108700	103100
18	141500	139700	139000	142000	142700	118400	121900	130600	138300	132800	108200	103000
19	141200	139700	139000	141900	142600	118700	121800	131200	138300	132100	107500	102800
20	141000	139500	139100	141700	142500	118600	121700	131800	138500	131000	107000	102600
21	141000	139500	139000	141700	142400	118900	121500	132100	138400	129900	106700	102600
22	140900	139700	138900	141800	143500	118900	121400	132400	138300	128800	106600	102800
23	140700	139500	138900	141700	143500	119200	121300	132700	138100	127700	106400	102600
24	140600	139700	138900	141500	143400	119300	121200	132900	137900	126400	106300	102800
25	140500	139500	138800	141300	143600	119400	121000	132900	137800	125400	106200	102600
26	140500	139400	138900	141000	143700	119600	121100	132800	137600	124300	106100	102300
27	140300	139300	138900	142200	143600	119400	120900	133100	137600	123300	105800	102100
28	140300	139300	138900	142100	143500	119400	120800	133000	137400	122400	105700	102000
29	140200	139100	138900	141900	142200	119600	120700	132900	137000	121500	105500	101900
30	140800	139100	138800	141800	---	119300	120500	132800	137000	120800	105300	101800
31	140700	---	138800	141900	---	119200	---	132600	---	119900	105500	---
MAX	142700	140700	139700	142200	143700	140000	121900	133100	138500	136700	119100	105200
MIN	140200	139100	138800	138400	142000	115200	119800	122600	132200	119900	105300	101800
(+)	236.68	236.53	236.50	236.79	236.82	234.55	234.68	235.90	236.33	234.62	233.08	232.66
(@)	-2100	-1600	-300	+3100	+300	-23000	+1300	+12100	+4400	-17100	-14400	-3700

CAL YR 1999 MAX 305800 MIN 138800 (@) -168900
WTR YR XXXX MAX 143700 MIN 101800 (@) -41000

(+) 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

LOCATION.--Lat 30°25′10", long 96°32′24", Burleson County, Hydrologic Unit 12070102, on left bank 83 ft downstream from Farm Road 60, 1.2 mi downstream from Berry Creek, 2.8 mi northeast of Lyons, and 10.7 mi upstream from mouth.

DRAINAGE AREA.--195 mi^2.

PERIOD OF RECORD.--Oct 1962 to current year.
Water-quality records.--Sediment data: Jun 1966 to Sep 1975.

GAGE.--Water-stage recorder. Datum of gage is 220.26 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good, except those for daily discharges below 12 ft^3/s, which are poor. No known regulation or diversions. The city of Caldwell discharges wastewater effluent into creek above station. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1947 reached a stage of 17 ft, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s:

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

No peak greater than base discharge.

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

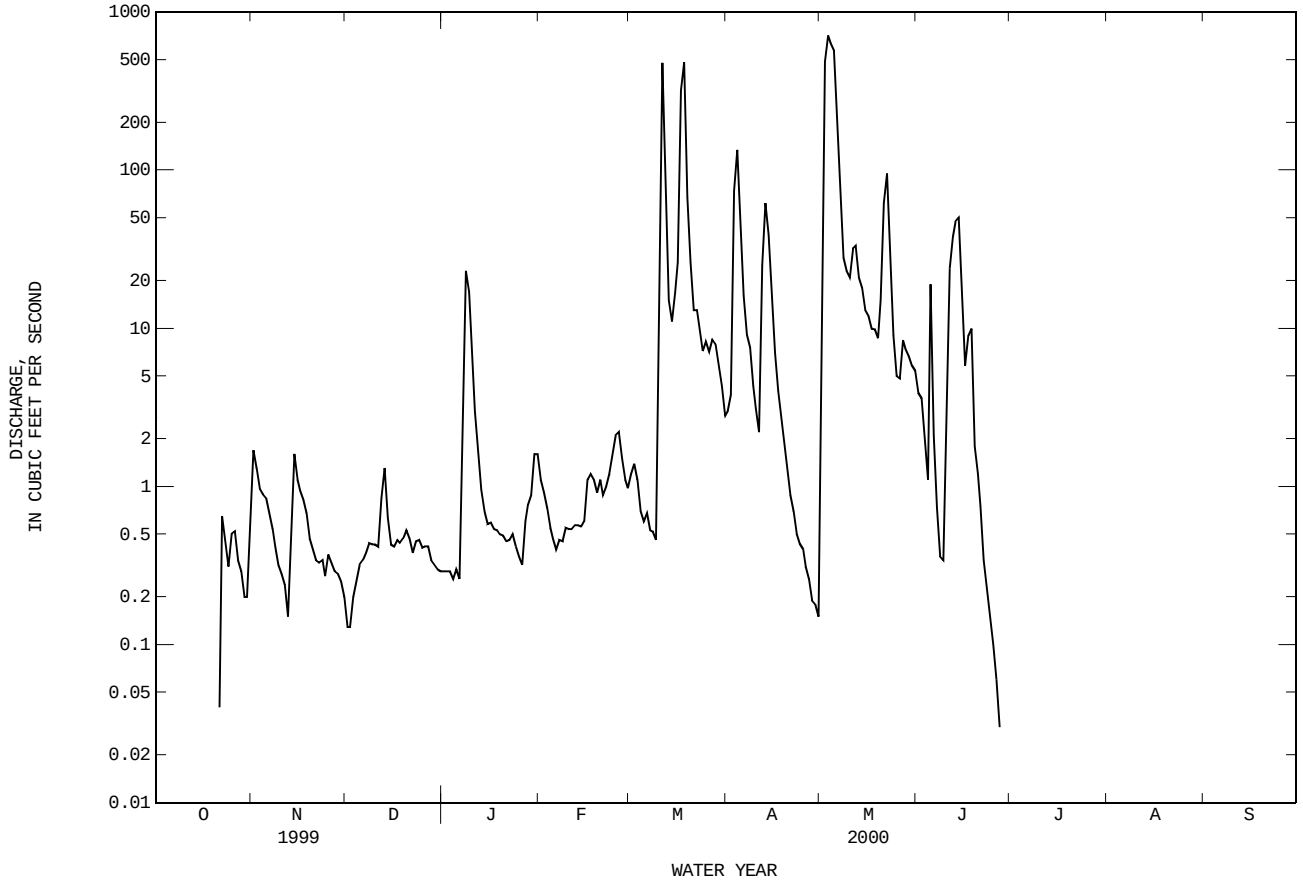
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.7	.13	.29	1.1	1.2	3.0	31	3.9	.00	.00	.00
2	.00	1.3	.13	.29	.92	1.4	3.8	486	3.6	.00	.00	.00
3	.00	.97	.20	.29	.73	1.1	74	712	2.1	.00	.00	.00
4	.00	.89	.25	.26	.55	.70	134	638	1.1	.00	.00	.00
5	.00	.84	.32	.30	.47	.60	39	572	19	.00	.00	.00
6	.00	.68	.34	.26	.40	.68	16	152	2.1	.00	.00	.00
7	.00	.54	.38	5.4	.46	.53	9.2	59	.73	.00	.00	.00
8	.00	.42	.44	23	.45	.52	7.6	28	.36	.00	.00	.00
9	.00	.32	.43	17	.55	.46	4.3	23	.34	.00	.00	.00
10	.00	.28	.43	6.2	.54	10	3.1	21	2.6	.00	.00	.00
11	.00	.24	.42	3.0	.54	474	2.2	32	24	.00	.00	.00
12	.00	.15	.84	1.7	.57	55	25	33	38	.00	.00	.00
13	.00	.40	1.3	.95	.57	15	62	21	47	.00	.00	.00
14	.00	1.6	.63	.70	.56	11	39	18	50	.00	.00	.00
15	.00	1.1	.43	.58	.61	17	16	13	15	.00	.00	.00
16	.00	.94	.42	.59	1.1	26	7.0	12	5.8	.00	.00	.00
17	.00	.83	.46	.54	1.2	318	4.0	10	9.0	.00	.00	.00
18	.00	.68	.44	.53	1.1	482	2.8	9.9	10	.00	.00	.00
19	.00	.47	.47	.50	.92	67	1.9	8.7	1.8	.00	.00	.00
20	.00	.40	.53	.49	1.1	26	1.3	15	1.2	.00	.00	.00
21	.04	.34	.47	.45	.88	13	.88	62	.75	.00	.00	.00
22	.65	.33	.38	.46	1.0	13	.70	95	.34	.00	.00	.00
23	.44	.34	.45	.50	1.2	9.3	.50	27	.22	.00	.00	.00
24	.31	.27	.46	.42	1.6	7.2	.43	9.0	.15	.00	.00	.00
25	.50	.37	.41	.36	2.1	8.3	.40	5.0	.10	.00	.00	.00
26	.52	.33	.42	.32	2.2	7.1	.31	4.8	.06	.00	.00	.00
27	.34	.29	.42	.60	1.5	8.5	.26	8.4	.03	.00	.00	.00
28	.29	.28	.34	.77	1.1	8.0	.19	7.4	.00	.00	.00	.00
29	.20	.25	.32	.88	.98	5.9	.18	6.7	.00	.00	.00	.00
30	.20	.20	.30	1.6	---	4.3	.15	5.8	.00	.00	.00	.00
31	.59	---	.29	1.6	---	2.8	---	5.4	---	.00	.00	---
TOTAL	4.08	17.75	13.25	70.83	27.00	1595.59	459.20	3131.1	239.28	0.00	0.00	0.00
MEAN	.13	.59	.43	2.28	.93	51.5	15.3	101	7.98	.000	.000	.000
MAX	.65	1.7	1.3	23	2.2	482	134	712	50	.00	.00	.00
MIN	.00	.15	.13	.26	.40	.46	.15	4.8	.00	.00	.00	.00
AC-FT	8.1	35	26	140	54	3160	911	6210	475	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	59.2	47.6	82.8	90.8	120	77.9	100	121	112	7.57	4.40	24.0
MAX	886	513	646	687	948	357	692	451	841	61.5	42.5	428
(WY)	1995	1999	1992	1991	1992	1979	1977	1992	1968	1968	1995	1974
MIN	.000	.000	.000	.19	.93	.44	.23	.62	.060	.000	.000	.000
(WY)	1964	1968	1968	1971	2000	1971	1972	1996	1971	1964	1964	1963

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	6371.36		5558.08			
ANNUAL MEAN	17.5		15.2		70.3	
HIGHEST ANNUAL MEAN					237	1992
LOWEST ANNUAL MEAN					1.42	1971
HIGHEST DAILY MEAN	588	Jun 26	712	May 3	18000	Oct 17 1994
LOWEST DAILY MEAN	.00	Aug 29	.00	Oct 1	.00	Jun 16 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	.00	Oct 1	.00	Jun 16 1963
INSTANTANEOUS PEAK FLOW			815	May 2	26400	Oct 17 1994
INSTANTANEOUS PEAK STAGE			12.72	May 2	19.33	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	12640		11020		50940	
10 PERCENT EXCEEDS	24		17		71	
50 PERCENT EXCEEDS	1.7		.44		2.5	
90 PERCENT EXCEEDS	.00		.00		.00	

08110100 DAVIDSON CREEK NEAR LYONS, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1961 to Sep 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 good. 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 Jun 5, 1961. 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)	422.1

COOPERATION.--Capacity table was computed from data furnished by Texas Water Development Board from a 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 contents, 2,440 acre-ft, Jan. 15, 1964, elevation, 445.48 ft.

EXTREMES FOR WATER YEAR 1999.--Maximum contents, 5,000 acre-ft, Jun 26, elevation, 448.43 ft; minimum contents, 3,080 acre-ft, Sep 27, elevation, 446.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 9,180 acre-ft, Jun 12, elevation, 451.08 ft; minimum contents, 2,440 acre-ft, Jan 1, elevation, 445.48 ft.

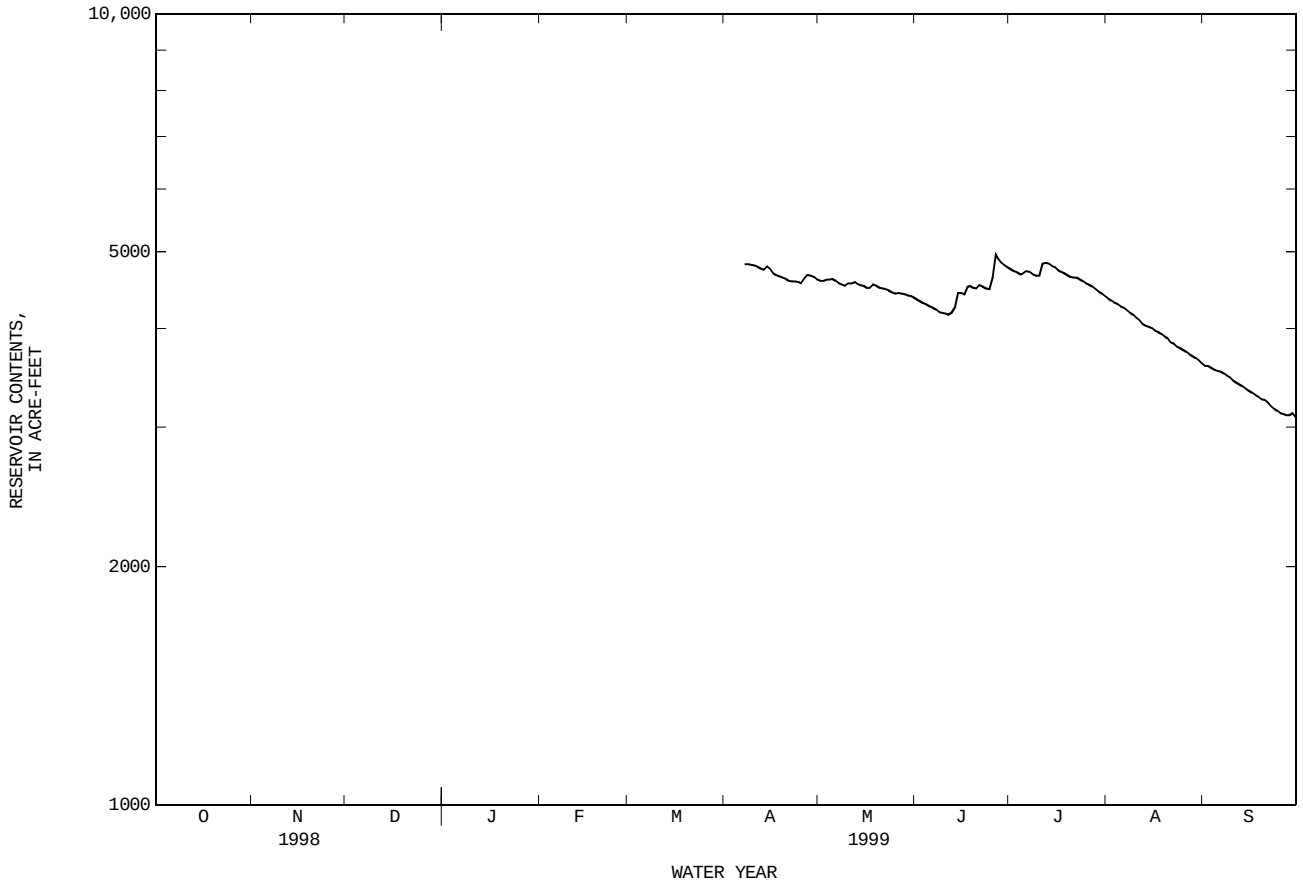
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	4600	4360	4760	4370	3590
2	---	---	---	---	---	---	---	4600	4330	4730	4340	3590
3	---	---	---	---	---	---	---	4620	4310	4710	4320	3570
4	---	---	---	---	---	---	---	4620	4290	4690	4300	3550
5	---	---	---	---	---	---	---	4630	4270	4700	4270	3540
6	---	---	---	---	---	---	---	4600	4250	4730	4250	3530
7	---	---	---	---	---	---	4830	4570	4230	4720	4220	3510
8	---	---	---	---	---	---	4830	4550	4200	4690	4190	3490
9	---	---	---	---	---	---	4820	4530	4190	4670	4170	3470
10	---	---	---	---	---	---	4810	4570	4180	4670	4130	3440
11	---	---	---	---	---	---	4790	4570	4170	4840	4100	3420
12	---	---	---	---	---	---	4770	4580	4190	4850	4060	3400
13	---	---	---	---	---	---	4750	4560	4250	4840	4040	3380
14	---	---	---	---	---	---	4790	4540	4440	4800	4020	3360
15	---	---	---	---	---	---	4760	4530	4440	4780	4010	3340
16	---	---	---	---	---	---	4700	4510	4420	4750	3980	3320
17	---	---	---	---	---	---	4680	4510	4520	4720	3960	3300
18	---	---	---	---	---	---	4660	4550	4530	4700	3940	3280
19	---	---	---	---	---	---	4640	4530	4510	4680	3910	3260
20	---	---	---	---	---	---	4630	4510	4500	4650	3890	3250
21	---	---	---	---	---	---	4600	4500	4540	4640	3850	3230
22	---	---	---	---	---	---	4590	4490	4520	4640	3830	3190
23	---	---	---	---	---	---	4590	4470	4500	4620	3800	3170
24	---	---	---	---	---	---	4580	4450	4490	4590	3780	3150
25	---	---	---	---	---	---	4570	4430	4640	4570	3760	3130
26	---	---	---	---	---	---	4630	4440	4970	4550	3740	3120
27	---	---	---	---	---	---	4680	4430	4900	4520	3710	3110
28	---	---	---	---	---	---	4670	4420	4850	4490	3690	3110
29	---	---	---	---	---	---	4650	4410	4810	4460	3670	3130
30	---	---	---	---	---	---	4620	4400	4780	4430	3650	3090
31	---	---	---	---	---	---	---	4380	---	4400	3620	---
TOTAL	---	---	---	---	---	---	---	140100	133580	144590	123570	100020
MEAN	---	---	---	---	---	---	---	4520	4450	4660	3990	3330
MAX	---	---	---	---	---	---	---	4630	4970	4850	4370	3590
MIN	---	---	---	---	---	---	---	4380	4170	4400	3620	3090
(+)							448.11	447.86	448.26	447.87	447.04	446.42
(@)								-240	+400	+380	-780	-530

WTR YR 1999 MAX 4970 MIN 3090

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

08110300 LAKE MEXIA NEAR MEXIA, TX--Continued



08110300 LAKE MEXIA NEAR MEXIA, TX--Continued

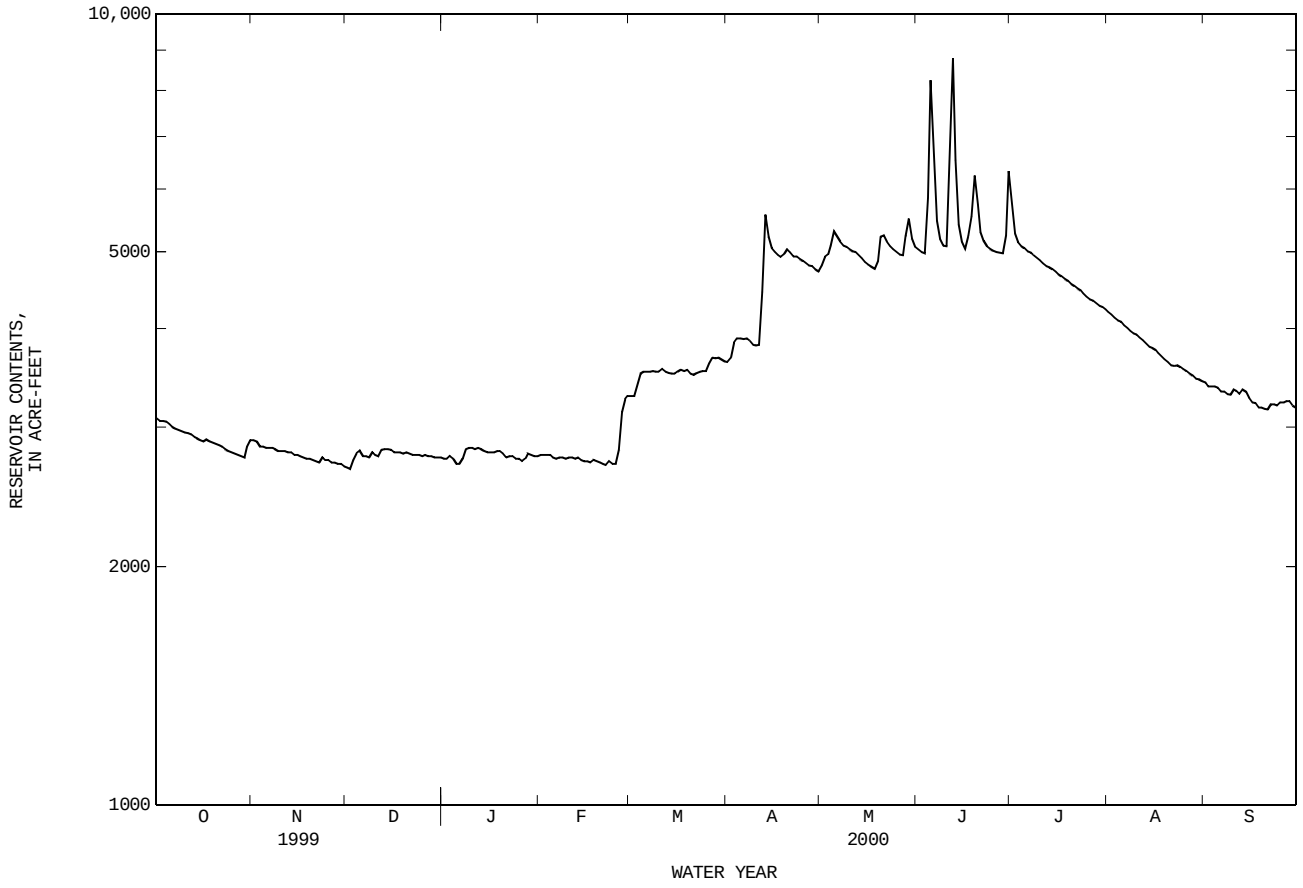
RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3080	2890	2670	2740	2770	3290	3630	4810	5040	5750	4200	3420
2	3060	2880	2660	2740	2770	3290	3670	4930	5000	5280	4170	3380
3	3060	2840	2730	2760	2770	3400	3840	4970	4980	5140	4130	3380
4	3050	2840	2780	2740	2770	3510	3890	5100	5850	5090	4100	3380
5	3030	2830	2800	2700	2750	3530	3890	5310	8240	5060	4080	3370
6	3010	2830	2760	2700	2740	3530	3880	5230	6850	5010	4040	3330
7	2990	2830	2760	2740	2750	3530	3890	5150	5480	4990	4010	3330
8	2980	2820	2750	2820	2750	3540	3860	5100	5190	4960	3970	3310
9	2970	2800	2790	2830	2740	3530	3820	5080	5100	4920	3950	3300
10	2960	2800	2770	2830	2750	3530	3810	5040	5090	4880	3930	3350
11	2950	2800	2760	2820	2750	3560	3820	5010	6300	4840	3900	3340
12	2940	2790	2810	2830	2740	3530	4450	5000	8780	4800	3870	3310
13	2920	2790	2820	2820	2750	3520	5570	4960	6530	4780	3830	3350
14	2910	2770	2820	2800	2730	3510	5230	4910	5420	4760	3800	3330
15	2890	2770	2810	2790	2720	3510	5060	4860	5150	4720	3780	3270
16	2880	2760	2790	2790	2720	3530	5000	4820	5050	4690	3760	3230
17	2900	2750	2790	2790	2710	3550	4960	4790	5240	4660	3730	3220
18	2880	2740	2790	2800	2730	3540	4930	4770	5540	4630	3690	3180
19	2870	2740	2780	2800	2720	3550	4970	4870	6250	4600	3660	3180
20	2860	2730	2790	2780	2710	3510	5040	5230	5740	4560	3630	3170
21	2850	2720	2780	2750	2700	3500	4990	5250	5300	4530	3600	3160
22	2840	2710	2770	2760	2690	3520	4940	5150	5160	4500	3590	3210
23	2820	2750	2770	2760	2720	3530	4940	5090	5090	4470	3600	3210
24	2800	2730	2770	2740	2700	3540	4900	5040	5050	4430	3580	3200
25	2790	2730	2760	2740	2700	3540	4870	5000	5020	4390	3560	3230
26	2780	2710	2770	2720	2810	3620	4850	4970	5000	4360	3540	3230
27	2770	2710	2760	2740	3140	3680	4810	4960	4990	4340	3510	3240
28	2760	2700	2760	2780	3260	3670	4800	5240	4980	4310	3490	3240
29	2750	2700	2750	2770	3290	3680	4760	5510	5250	4280	3460	3200
30	2840	2680	2750	2760	---	3660	4730	5200	6330	4260	3450	3180
31	2890	---	2750	2760	---	3640	---	5080	---	4230	3430	---
TOTAL	90080	83140	85820	85900	80850	109570	135800	156430	168990	146220	117040	98230
MEAN	2910	2770	2770	2770	2790	3530	4530	5050	5630	4720	3780	3270
MAX	3080	2890	2820	2830	3290	3680	5570	5510	8780	5750	4200	3420
MIN	2750	2680	2660	2700	2690	3290	3630	4770	4980	4230	3430	3160
(+)	446.15	445.85	445.96	445.98	446.65	447.07	448.23	448.48	449.31	447.69	446.82	446.51
(@)	-200	- 210	+70	+10	+530	+350	+1090	+350	+1250	-2100	-800	-250

WTR YR 2000 MAX 8780 MIN 2660 (@) +90

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

08110300 LAKE MEXIA NEAR MEXIA, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1975 to May 1978 (periodic gage-height and low-flow measurements only), Jun 1978 to current year (daily mean discharge).
Water-quality records.--Chemical data: Nov 1967 to Jun 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. Since installation of gage in 1975, at least 10% of contributing drainage area has been regulated by Lake Mexia (station 08110300, conservation pool storage 4,806 acre-ft)) 7.4 mi upstream and by Springfield Lake (conservation pool storage, 3,100 acre-ft) 1.2 mi upstream. There are several diversions above station for irrigation, municipal supply, and oil field operation (total amount is 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1910, 26 ft in 1910 and 1944, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	49	760	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	30	218	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	19	92	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	11	377	55	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	126	3180	35	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	115	2750	21	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	77	574	12	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	52	163	2.9	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	33	81	.33	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	19	62	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	11	916	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.02	6.6	4920	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.10	4.5	2360	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.07	1.1	477	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.03	.12	148	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.25	.00	73	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	1.7	.00	96	.00	.00	.00
18	.00	.05	.00	.00	.00	.00	e2.4	.00	364	.00	.00	.00
19	.00	.02	.00	.00	.00	.00	1.4	.00	902	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	e1.1	2.0	802	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.80	33	251	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.28	41	102	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.13	30	60	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.43	18	38	.00	.00	.07
25	.00	.00	.00	.00	.00	.00	.09	9.5	23	.00	.00	.25
26	.00	.00	.00	.00	.00	.00	.00	4.6	17	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	2.3	13	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	10	9.1	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	172	10	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	165	569	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	81	---	.00	.00	---
TOTAL	0.00	0.07	0.00	0.00	0.00	0.00	8.80	1024.72	19435.1	1196.23	0.00	0.32
MEAN	.000	.002	.000	.000	.000	.000	.29	33.1	648	38.6	.000	.011
MAX	.00	.05	.00	.00	.00	.00	2.4	172	4920	760	.00	.25
MIN	.00	.00	.00	.00	.00	.00	.00	.00	9.1	.00	.00	.00
AC-FT	.00	.1	.00	.00	.00	.00	17	2030	38550	2370	.00	.6

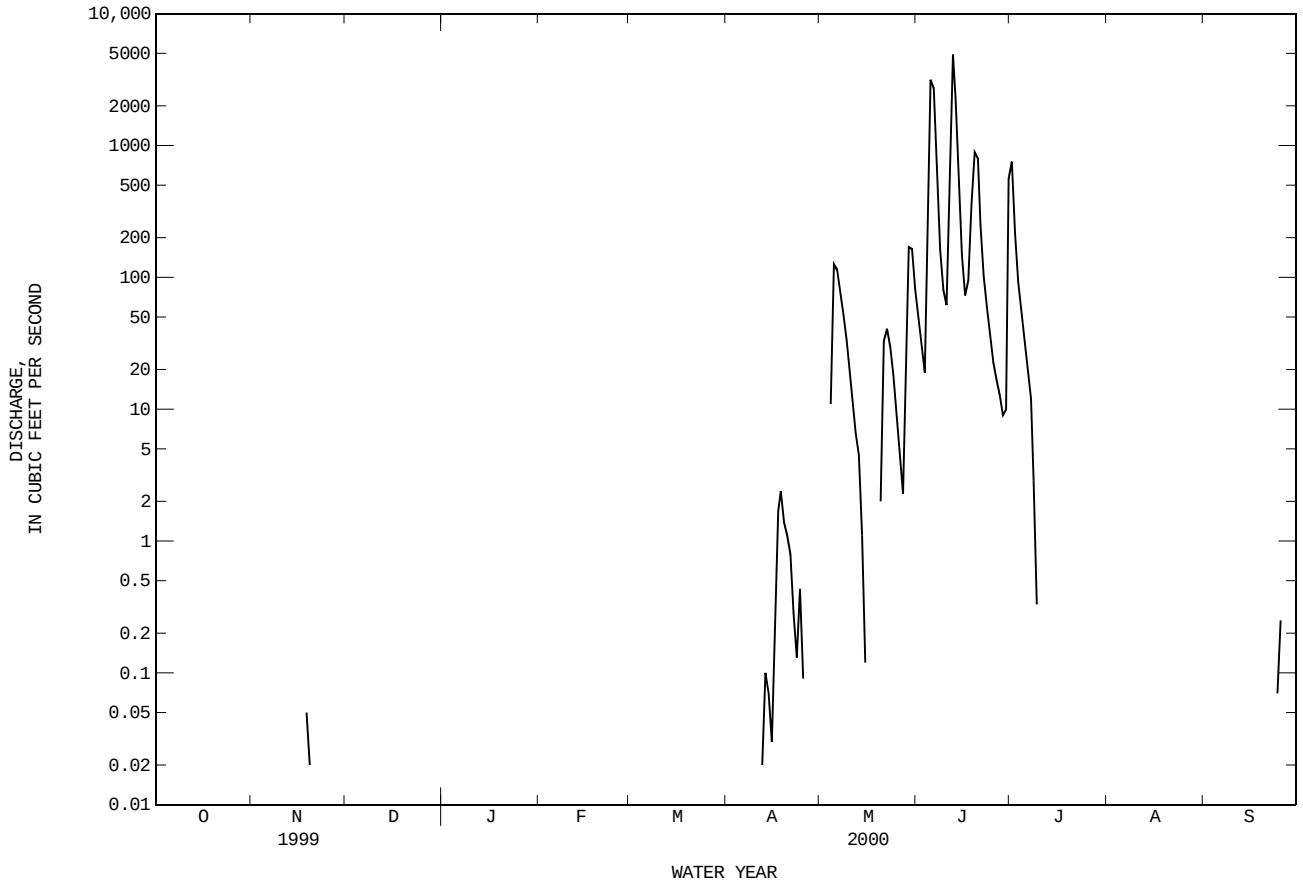
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	43.3	52.9	184	128	235	160	97.9	262	124	5.34	30.6	.61
MAX	347	450	1154	806	909	1109	857	1384	648	51.4	570	5.24
(WY)	1982	1986	1992	1998	1986	1990	1997	1979	2000	1981	1995	1979
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1993	1996	2000	2000	1996	1996	1996	1996	1996	1998	1994	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000	
ANNUAL TOTAL	15605.06		21665.24			
ANNUAL MEAN	42.8		59.2		110	
HIGHEST ANNUAL MEAN					270	1992
LOWEST ANNUAL MEAN					.011	1996
HIGHEST DAILY MEAN	6060	Jan 30	4920	Jun 12	17300	May 11 1979
LOWEST DAILY MEAN	.00	Jul 21	.00	Oct 1	.00	Jun 14 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 21	.00	Oct 1	.00	Jun 14 1978
INSTANTANEOUS PEAK FLOW			5600	Jun 12	27200	May 11 1979
INSTANTANEOUS PEAK STAGE			8.38	Jun 12	15.06	May 11 1979
ANNUAL RUNOFF (AC-FT)	30950		42970		79960	
10 PERCENT EXCEEDS	19		34		96	
50 PERCENT EXCEEDS	.69		.00		1.0	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08110325 NAVASOTA RIVER ABOVE GROESBECK, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Jul 1975 to Jun 1978 (periodic gage-height and low-flow measurements only), Jul 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1950, 19 ft in Apr 1957, from information by local residents.

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

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

No peak greater than base discharge.

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

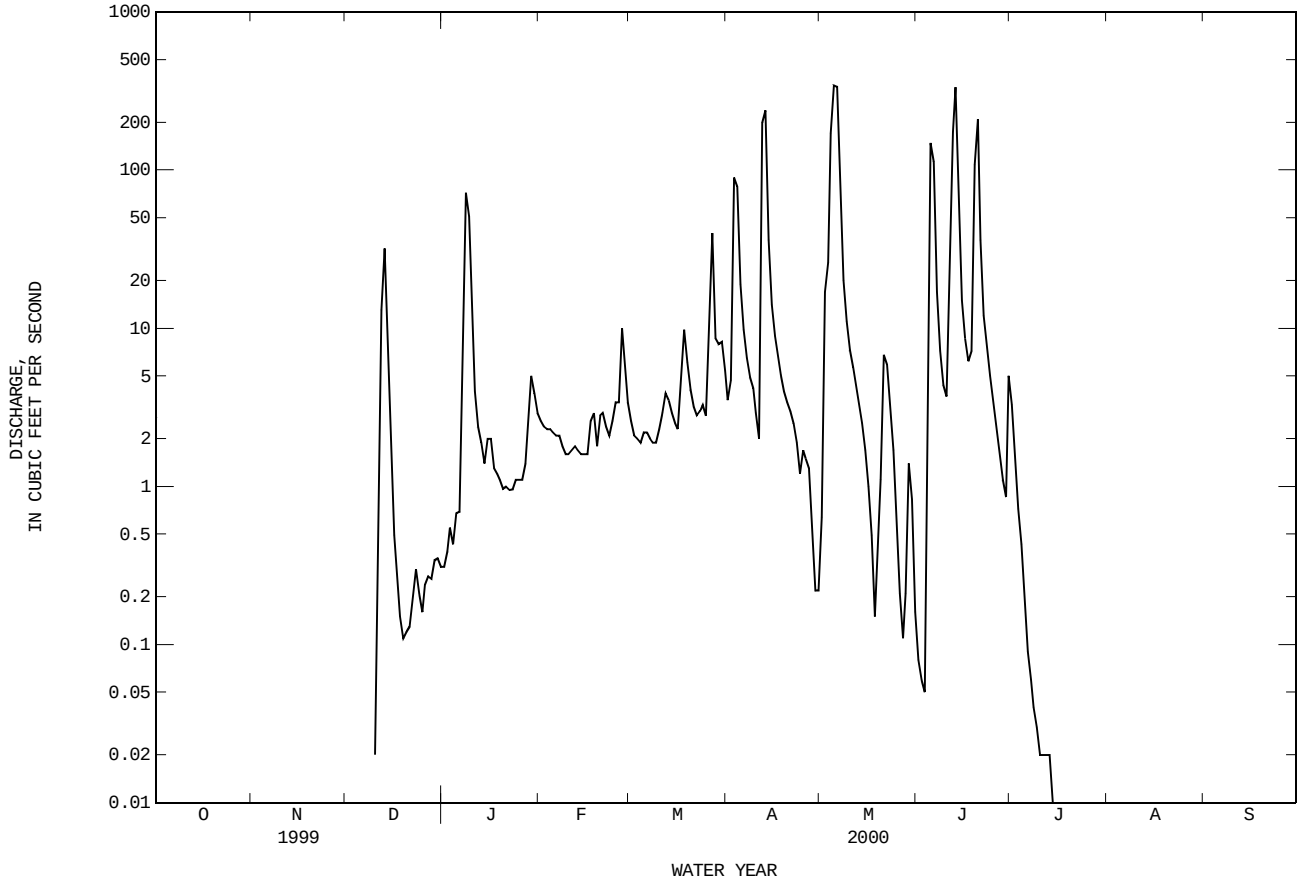
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.31	2.6	2.6	3.5	.64	.08	3.3	.00	.00
2	.00	.00	.00	.39	2.4	2.1	4.7	17	.06	1.4	.00	.00
3	.00	.00	.00	.55	2.3	2.0	90	26	.05	.72	.00	.00
4	.00	.00	.00	.43	2.3	1.9	79	171	19	.43	.00	.00
5	.00	.00	.00	.68	2.2	2.2	19	343	149	.22	.00	.00
6	.00	.00	.00	.69	2.1	2.2	9.8	338	113	.09	.00	.00
7	.00	.00	.00	3.3	2.1	2.0	6.5	66	17	.06	.00	.00
8	.00	.00	.00	72	1.8	1.9	4.9	20	7.2	.04	.00	.00
9	.00	.00	.00	51	1.6	1.9	4.2	11	4.4	.03	.00	.00
10	.00	.00	.02	9.5	1.6	2.3	2.9	7.3	3.7	.02	.00	.00
11	.00	.00	.12	4.0	1.7	2.9	2.0	5.7	22	.02	.00	.00
12	.00	.00	13	2.4	1.8	3.9	200	4.5	174	.02	.00	.00
13	.00	.00	32	1.9	1.7	3.5	238	3.4	333	.02	.00	.00
14	.00	.00	5.5	1.4	1.6	2.9	36	2.5	75	.01	.00	.00
15	.00	.00	1.7	2.0	1.6	2.5	14	1.7	15	.00	.00	.00
16	.00	.00	.49	2.0	1.6	2.3	8.9	1.0	8.6	.00	.00	.00
17	.00	.00	.24	1.3	2.6	5.1	6.6	.49	6.2	.00	.00	.00
18	.00	.00	.15	1.2	2.9	9.8	5.1	.15	7.2	.00	.00	.00
19	.00	.00	.11	1.1	1.8	6.1	4.0	.55	108	.00	.00	.00
20	.00	.00	.12	.97	2.8	4.1	3.4	1.1	209	.00	.00	.00
21	.00	.00	.13	1.0	2.9	3.2	3.0	6.8	36	.00	.00	.00
22	.00	.00	.20	.95	2.4	2.8	2.5	5.9	12	.00	.00	.00
23	.00	.00	.30	.96	2.1	3.0	1.9	3.2	7.5	.00	.00	.00
24	.00	.00	.21	1.1	2.6	3.3	1.2	1.7	5.0	.00	.00	.00
25	.00	.00	.16	1.1	3.4	2.8	1.7	.61	3.5	.00	.00	.00
26	.00	.00	.24	1.1	3.4	14	1.5	.21	2.4	.00	.00	.00
27	.00	.00	.27	1.4	10	40	1.3	.11	1.6	.00	.00	.00
28	.00	.00	.26	2.6	5.4	8.7	.51	.21	1.1	.00	.00	.00
29	.00	.00	.34	5.0	3.4	8.0	.22	1.4	.86	.00	.00	.00
30	.00	.00	.35	3.9	---	8.2	.22	.83	5.0	.00	.00	.00
31	.00	---	.31	2.9	---	5.4	---	.16	---	.00	.00	---
TOTAL	0.00	0.00	56.22	179.13	76.7	163.6	756.55	1042.16	1346.45	6.38	0.00	0.00
MEAN	.000	.000	1.81	5.78	2.64	5.28	25.2	33.6	44.9	.21	.000	.000
MAX	.00	.00	32	72	10	40	238	343	333	3.3	.00	.00
MIN	.00	.00	.00	.31	1.6	1.9	.22	.11	.05	.00	.00	.00
AC-FT	.00	.00	112	355	152	325	1500	2070	2670	13	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	34.0	29.3	86.6	75.3	97.7	70.8	51.1	87.7	43.6	4.85	2.41	5.20
MAX	301	150	609	329	307	209	348	335	159	62.0	18.5	44.0
(WY)	1999	1986	1992	1998	1997	1990	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000	
ANNUAL TOTAL	14910.26		3627.19			
ANNUAL MEAN	40.9		9.91		48.9	
HIGHEST ANNUAL MEAN					138	1992
LOWEST ANNUAL MEAN					3.46	1996
HIGHEST DAILY MEAN	5710	Jan 29	343	May 5	8390	Dec 21 1991
LOWEST DAILY MEAN	.00	Aug 3	.00	Oct 1	.00	Sep 24 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 5	.00	Oct 1	.00	Sep 29 1983
INSTANTANEOUS PEAK FLOW			410	May 4	17500	Dec 21 1991
INSTANTANEOUS PEAK STAGE			10.64	May 4	16.33	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	29570		7190		35430	
10 PERCENT EXCEEDS	29		9.8		77	
50 PERCENT EXCEEDS	2.3		.31		3.0	
90 PERCENT EXCEEDS	.00		.00		.00	

08110430 BIG CREEK NEAR FREESTONE, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Nov 1978 to current year.
Water-quality records.--Chemical data: Jan 1980 to Sep 1997. Biochemical data: Jan 1980 to Sep 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. 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.--Records of daily lake elevations are obtained in cooperation with the Brazos River Authority. 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, 218,600 acre-ft, Jun 19, 20, elevation, 363.21 ft; minimum contents, 171,100 acre-ft, Mar 14, elevation, 359.38 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

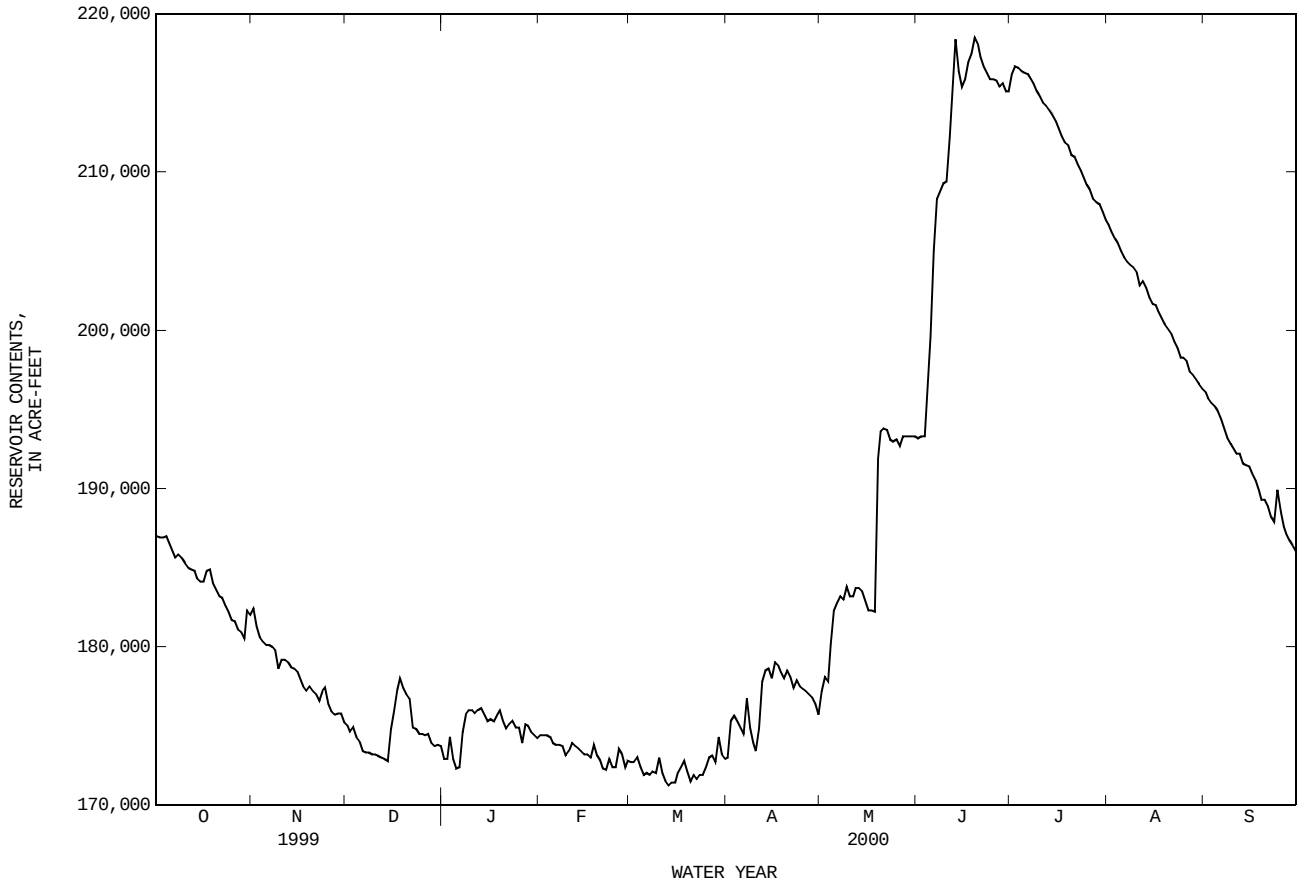
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187400	182000	175100	173400	174300	172900	172800	177100	193300	215700	206800	196200
2	186900	182300	174600	173300	174500	172400	173800	177900	193300	216500	206500	195800
3	186800	180900	174800	173600	174200	173300	175300	177900	193300	216600	206000	195500
4	187100	180400	e174300	173800	174600	172700	175500	178600	194900	216500	205700	195400
5	186700	180200	e174000	172600	174100	172200	175000	181300	198000	216400	205400	195100
6	186200	180100	e173400	172400	173700	172000	174800	182300	202200	216300	204900	194600
7	185900	180000	e173300	173900	173800	171800	175000	183100	207200	215900	204400	194100
8	185800	179800	e173300	175500	173700	172100	175600	183300	208600	215800	204100	193600
9	185700	179300	e173200	175800	173400	172000	174300	183500	209100	215300	204100	193100
10	185500	179100	e173200	176100	173300	172200	173800	183600	209500	215000	203800	192700
11	185200	179200	e173100	176000	173600	172800	174200	183200	210500	214600	203700	192400
12	185000	179100	e173000	175900	173800	171800	176700	183300	214500	214200	203100	192000
13	184800	178900	e172900	176300	173600	171400	178300	184000	217400	214000	202900	191700
14	184700	178600	e172800	175800	173500	171300	178600	183600	217700	213700	202500	191600
15	184400	178400	e174800	175400	173100	171400	178600	183200	215500	213400	201900	191500
16	184200	178300	e176000	175400	173200	171500	178800	182700	215600	213000	201700	191100
17	185100	177800	e177300	175400	173100	172600	178900	182100	216400	212600	201400	190700
18	184600	177400	e178000	175500	173400	172500	178600	182200	217300	212100	201000	190200
19	184400	177300	e177400	175600	173400	172700	178300	187300	218000	211700	200700	189600
20	183800	177400	e177000	175700	172900	171700	178700	193100	218300	211300	200200	189300
21	183400	177000	e176700	175100	172500	171600	178400	193800	217700	211100	199800	189100
22	183100	176700	e174900	174900	172200	171700	177800	193800	217100	210600	199600	188600
23	182900	177200	174800	175200	172800	171800	177600	193500	216400	210300	199200	188200
24	182400	177100	174700	175100	172700	171900	177800	193200	216100	209800	198800	188500
25	181900	176700	174500	174900	172400	171900	177400	193100	215900	209400	198300	189500
26	181600	176100	174400	174400	173400	172700	177200	192900	215800	209000	198100	187900
27	181300	175800	174500	174600	173300	173100	177000	192900	215700	208600	197700	187300
28	181100	175700	174200	175200	172800	172900	176900	193400	215400	208300	197400	186900
29	180700	175800	173900	174900	172700	173300	176500	193300	215200	208100	197100	186500
30	181700	175500	173700	174400	---	173500	176000	193200	215100	207700	196700	186200
31	182100	---	173700	174200	---	172900	---	193400	---	207300	196400	---
MAX	187400	182300	178000	176300	174600	173500	178900	193800	218300	216600	206800	196200
MIN	180700	175500	172800	172400	172200	171300	172800	177100	193300	207300	196400	186200
(+)	360.33	359.77	359.61	359.65	359.52	359.54	359.81	361.26	362.95	362.35	361.50	360.66
(@)	-5,500	-6,600	-1,800	+500	-1,500	+200	+3,100	+17,400	+21,700	-7,800	-10,900	-10,200

CAL YR 1999 MAX 231800 MIN 172800 (@) -42,100
WTR YR 2000 MAX 218300 MIN 171300 (@) -1,400

e Estimated

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

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX--Continued



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 mi^2.

PERIOD OF RECORD.--Mar 1924 to current year.
Water-quality records.--Chemical data: Dec 1941 to Sep 1947, Feb 1966 to Aug 1985. Sediment data: Oct 1968 to Sep 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 Jun 11, 1932, nonrecording gage at railroad bridge 1.0 mi downstream at 19.86-foot higher datum. Jun 11, 1932 to Sep 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 by Lake Mexia (station 08110300) and Lake Limestone (station 08110470), combined conservation pool storage 220,554 acre-ft. There are numerous diversions above station for irrigation, municipal supply, and oil field operation. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-60), 406 ft^3/s, 294,100 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-60).--Maximum discharge, 60,300 ft^3/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 Jun 1899, from information by local residents (discharge, 90,000 ft^3/s), from rating curve extended above 60,000 ft^3/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	47	9.5	12	17	13	20	16	16	15	9.1	8.1
2	7.5	44	9.7	12	18	14	110	25	14	14	9.6	8.1
3	7.6	45	9.7	11	17	24	310	28	13	14	9.0	8.2
4	7.7	47	9.8	10	17	19	395	26	18	13	8.9	8.2
5	7.6	47	10	10	16	17	196	170	188	13	8.9	8.1
6	7.6	47	9.8	10	16	15	55	189	402	12	8.8	8.0
7	7.5	47	9.8	14	16	16	30	45	136	12	8.8	8.0
8	7.6	47	9.9	29	15	15	26	22	32	12	8.9	8.1
9	7.6	46	12	35	15	15	20	18	22	14	9.3	8.3
10	7.8	47	11	33	15	17	18	16	23	15	9.1	8.5
11	7.6	48	10	23	14	34	17	15	37	14	8.9	8.5
12	7.5	48	14	22	14	26	125	14	103	14	8.8	8.4
13	7.6	49	15	18	13	24	376	17	1300	14	8.7	9.0
14	7.6	50	13	15	13	19	186	14	2820	14	8.5	10
15	7.7	50	11	15	13	19	64	13	3860	13	8.5	8.5
16	17	50	10	14	13	18	33	13	2060	11	8.6	8.7
17	38	50	10	14	13	144	24	12	172	11	8.5	9.8
18	41	51	10	14	13	234	21	13	344	11	8.4	9.5
19	42	51	10	14	12	74	18	164	406	11	8.2	9.4
20	42	34	11	13	12	28	17	979	672	11	8.1	9.4
21	42	12	11	13	12	22	16	1020	1150	10	8.2	30
22	42	10	11	14	12	21	15	269	953	11	8.1	97
23	42	11	11	14	16	19	14	48	364	12	8.1	83
24	41	9.9	10	14	16	18	14	28	83	12	8.1	61
25	42	10	13	13	15	17	14	21	23	11	8.2	83
26	43	10	13	13	17	21	13	18	18	11	8.2	71
27	43	10	12	15	16	91	13	16	17	10	8.2	62
28	43	10	11	20	14	44	13	18	16	9.8	8.2	61
29	43	10	11	19	14	26	13	18	16	9.6	8.1	61
30	48	9.9	11	17	---	31	12	18	17	9.3	8.1	61
31	51	---	11	16	---	27	---	19	---	9.2	8.1	---
TOTAL	774.0	1047.8	340.2	506	424	1122	2198	3302	15295	372.9	265.2	842.8
MEAN	25.0	34.9	11.0	16.3	14.6	36.2	73.3	107	510	12.0	8.55	28.1
MAX	51	51	15	35	18	234	395	1020	3860	15	9.6	97
MIN	7.5	9.9	9.5	10	12	13	12	12	13	9.2	8.1	8.0
AC-FT	1540	2080	675	1000	841	2230	4360	6550	30340	740	526	1670

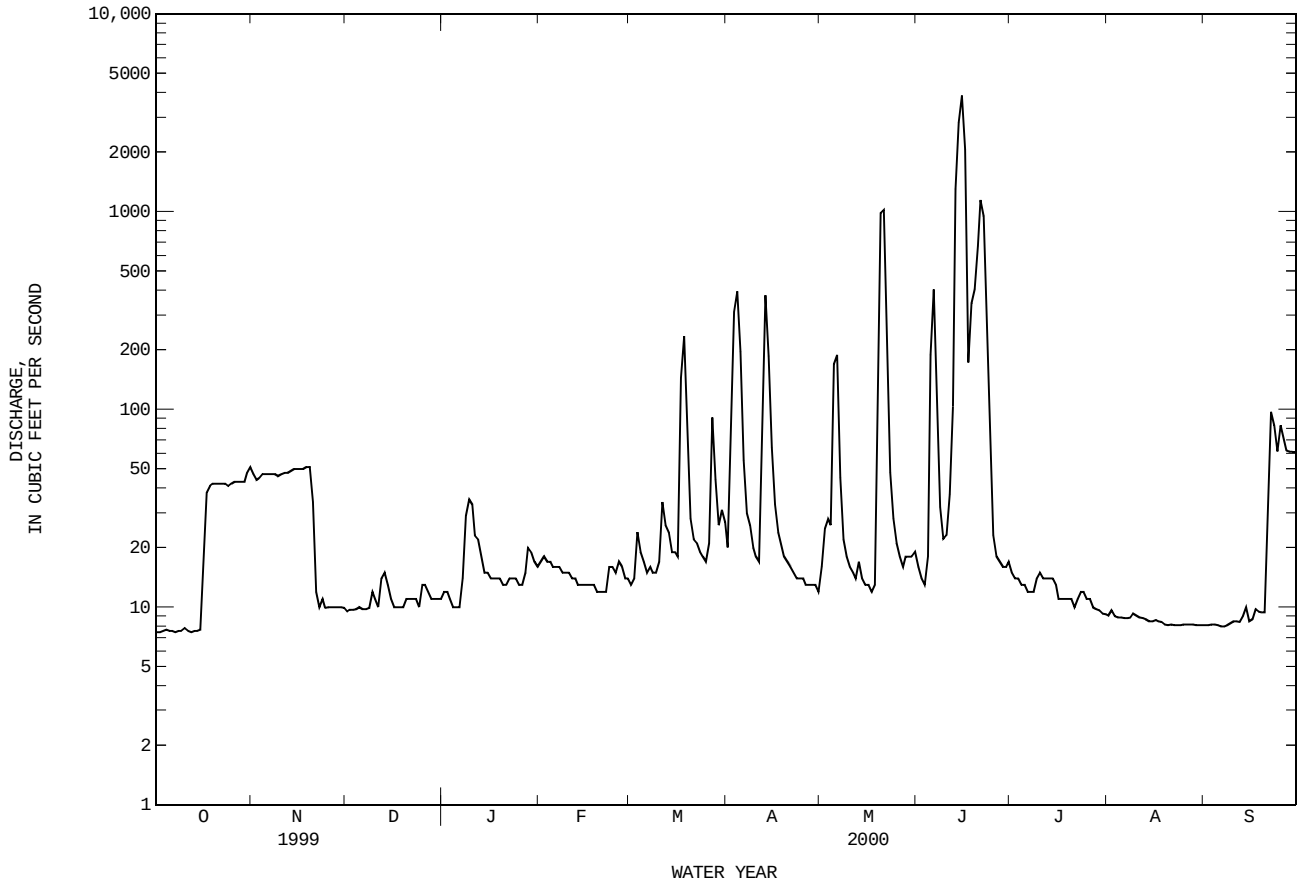
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000z, BY WATER YEAR (WY)

MEAN	231	294	634	604	712	591	620	868	484	66.1	68.5	110
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000z	
ANNUAL TOTAL	145697.8		26489.9			
ANNUAL MEAN	399		72.4		439	
HIGHEST ANNUAL MEAN					1172	1992
LOWEST ANNUAL MEAN					15.4	1963
HIGHEST DAILY MEAN	36900	Jan 31	3860	Jun 15	57400	Dec 22 1991
LOWEST DAILY MEAN	7.3	Sep 30	7.5	Oct 1	.19	Aug 11 1980
ANNUAL SEVEN-DAY MINIMUM	7.5	Sep 27	7.6	Oct 1	.26	Jul 12 1964
INSTANTANEOUS PEAK FLOW			4020	Jun 15	61800	Dec 22 1991
INSTANTANEOUS PEAK STAGE			19.71	Jun 15	27.22	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	289000		52540		317900	
10 PERCENT EXCEEDS	287		72		884	
50 PERCENT EXCEEDS	41		14		28	
90 PERCENT EXCEEDS	8.2		8.3		3.2	

z Period of regulated streamflow.



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 mi^2.

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 by Lake Mexia (station 08110300) and Lake Limestone (station 08110470), combined conservation pool storage 220,554 acre-ft. There are numerous diversions above station for irrigation, municipal supply and oil field operations. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	74	16	20	41	42	73	26	36	34	9.6	22
2	8.9	62	16	21	40	33	61	72	34	32	9.1	13
3	11	54	16	22	41	38	228	126	28	28	8.5	9.1
4	9.9	50	17	21	40	69	646	149	26	26	8.5	7.2
5	9.4	50	20	19	38	70	701	169	32	24	8.3	6.8
6	9.3	50	24	17	36	51	441	326	191	22	7.6	6.3
7	8.9	50	21	23	33	40	173	418	422	21	7.1	5.8
8	8.7	50	19	49	32	36	110	220	248	19	7.4	5.7
9	8.6	50	19	90	32	34	101	98	90	19	8.2	5.5
10	8.8	50	21	97	31	35	80	65	59	18	7.8	5.7
11	9.2	50	26	78	31	74	61	51	68	19	8.2	6.0
12	9.4	51	27	59	30	126	82	43	92	20	8.3	6.5
13	9.1	51	32	49	30	113	398	41	183	18	7.9	8.1
14	8.7	52	38	43	30	74	638	44	775	18	7.2	8.3
15	8.5	52	33	37	30	54	418	41	1510	18	7.1	8.2
16	8.5	52	28	32	28	50	186	32	2100	17	6.3	9.6
17	11	52	24	31	27	87	107	28	2800	15	6.1	9.7
18	38	52	22	31	27	408	80	26	2170	13	6.0	7.3
19	55	52	21	31	26	559	65	58	1010	12	5.8	7.8
20	53	53	21	30	25	287	55	312	702	12	5.4	8.6
21	50	51	23	28	24	125	47	977	767	11	5.1	8.7
22	48	37	26	27	23	118	40	1450	1120	11	5.1	8.9
23	47	24	25	27	28	125	36	1030	1260	11	5.2	48
24	47	20	24	27	38	105	33	303	717	11	5.2	84
25	47	20	22	28	43	82	30	111	243	11	5.0	72
26	46	18	21	27	43	66	28	69	117	12	5.0	77
27	46	18	23	28	43	81	26	51	117	12	e18	80
28	47	17	23	39	46	194	25	45	64	11	29	70
29	47	17	22	56	46	156	23	43	34	10	34	65
30	53	17	21	54	---	91	22	41	31	9.7	35	63
31	69	---	20	47	---	80	---	38	---	9.7	34	---
TOTAL	850.2	1296	711	1188	982	3503	5014	6503	17046	524.4	331.0	743.8
MEAN	27.4	43.2	22.9	38.3	33.9	113	167	210	568	16.9	10.7	24.8
MAX	69	74	38	97	46	559	701	1450	2800	34	35	84
MIN	8.5	17	16	17	23	33	22	26	26	9.7	5.0	5.5
AC-FT	1690	2570	1410	2360	1950	6950	9950	12900	33810	1040	657	1480

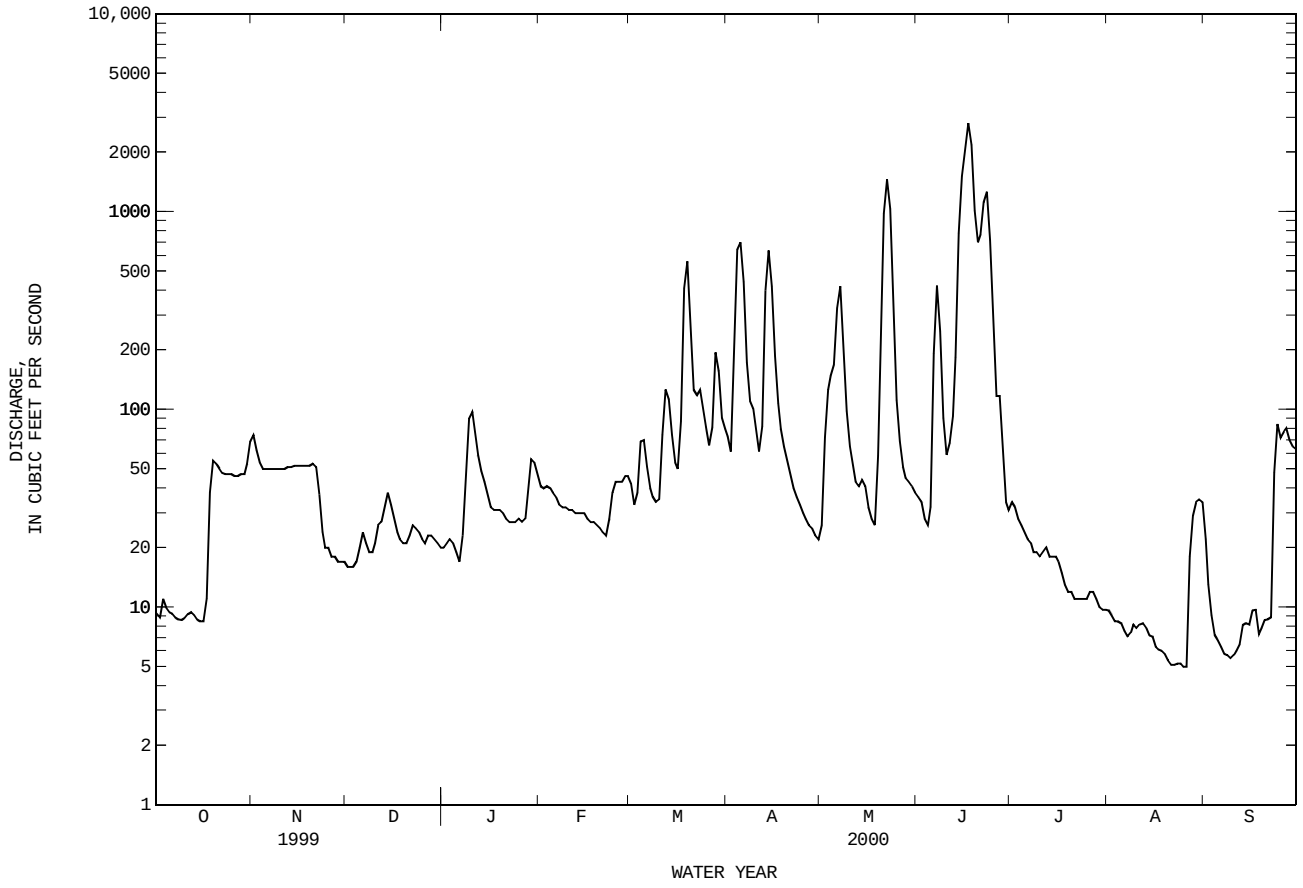
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	883	668	826	1721	1044	386	708	382	559	50.0	50.8	47.8
MAX	2596	1927	2141	2950	1629	885	2063	981	1492	66.4	73.1	88.1
(WY)	1999	1999	1999	1998	1999	1998	1997	1997	1997	1999	1997	1998
MIN	24.3	33.1	22.9	38.3	33.9	113	164	62.3	63.3	16.9	10.7	19.2
(WY)	1998	1998	2000	2000	2000	2000	1998	1998	1998	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	150264.6		38692.4			
ANNUAL MEAN	412		106		528	
HIGHEST ANNUAL MEAN					965	1999
LOWEST ANNUAL MEAN					106	2000
HIGHEST DAILY MEAN	28800	Jan 31	2800	Jun 17	28800	Jan 31 1999
LOWEST DAILY MEAN	8.4	Sep 21	5.0	Aug 25	5.0	Aug 25 2000
ANNUAL SEVEN-DAY MINIMUM	8.8	Sep 19	5.1	Aug 20	5.1	Aug 20 2000
INSTANTANEOUS PEAK FLOW			2940	Jun 17	30100	Jan 31 1999
INSTANTANEOUS PEAK STAGE			13.01	Jun 17	20.53	Jan 31 1999
ANNUAL RUNOFF (AC-FT)	298000		76750		382400	
10 PERCENT EXCEEDS	460		176		1130	
50 PERCENT EXCEEDS	65		32		67	
90 PERCENT EXCEEDS	11		8.4		15	

e Estimated

08110800 NAVASOTA RIVER AT OSR NEAR BRYAN, TX--Continued



08111500 BRAZOS RIVER NEAR HEMPSTEAD, TX

LOCATION.--Lat 30°07'44", long 96°11'15", Washington-Waller County line, Hydrologic Unit 12070101, at downstream side of bridge on U.S. Highway 290, 6,000 ft upstream from Texas and New Orleans Railroad Co. bridge, 6.5 mi northwest of Hempstead, 10.5 mi upstream from Caney Creek, and at mile 193.8.

DRAINAGE AREA.--43,880 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Oct 1938 to current year. Gage-height records collected in this vicinity at intermittent periods since 1903 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1512: 1941. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 107.90 ft above sea level. Prior to Nov 1, 1940, nonrecording gage at railroad bridge 6,000 ft downstream at datum 4.20 ft higher. Nov 1, 1940, to Sep 30, 1963, nonrecording gage at site 1,500 ft downstream at datum 10.00 ft higher. Oct 1, 1964, to Jul 31, 1974, water-stage recorder 1,500 ft downstream at datum 10.00 ft higher. Aug 1, 1974 to Dec 31, 1988, water-stage recorder at present site at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in water year 1939, at least 10% of contributing drainage area has been regulated by seven upstream reservoirs with a combined capacity of 117,000 acre-ft. Flow is also affected by discharge from the flood-detention pools of 147 floodwater-retarding structures with a combined detention capacity of 153,200 acre-ft. There are many diversions above station for irrigation, municipal and industrial uses, and for oil field operations. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1899, 66.1 ft Dec 8, 1913, at site 1,500 ft downstream at present datum, from information by Texas and New Orleans Railroad Co., obtained at bridge 6,000 ft downstream. Flood of Jul 4, 1899, reached a stage of 63.6 ft, at site 1,500 ft downstream at present datum, from information by Texas and New Orleans Railroad Co.

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

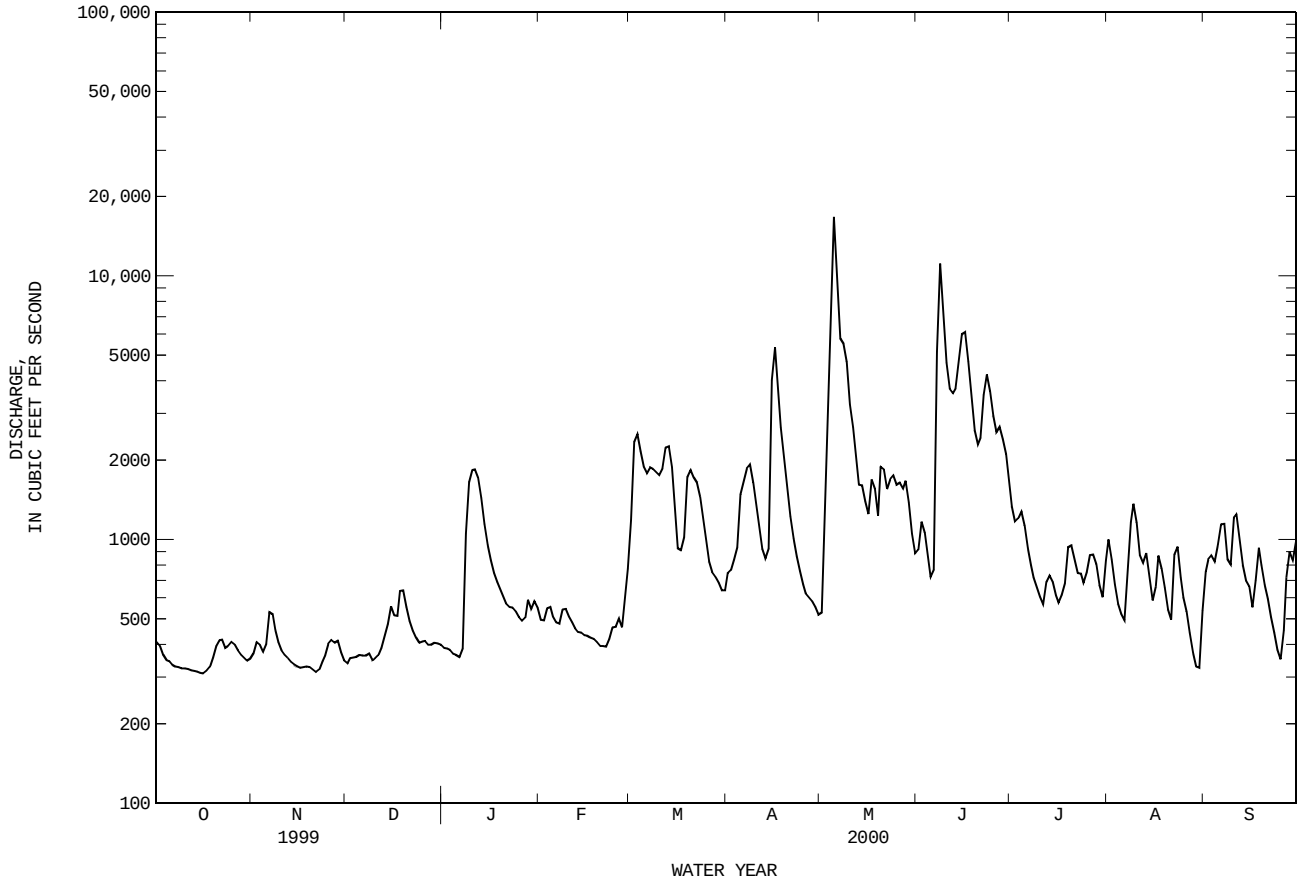
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	370	339	389	498	1180	745	528	916	1340	1000	754
2	395	409	355	386	494	2350	762	1310	1170	1170	839	840
3	365	399	357	382	548	2510	838	3650	1060	1200	675	871
4	350	375	360	369	557	2160	932	7830	854	1280	572	828
5	345	402	366	365	512	1890	1490	16700	723	1130	522	954
6	335	531	364	360	485	1790	1660	9480	768	927	493	1140
7	330	522	364	386	481	1880	1860	5780	5130	797	784	1150
8	328	456	369	1050	542	1860	1920	5530	11100	717	1160	839
9	324	409	349	1650	547	1810	1640	4720	7220	659	1370	804
10	324	380	354	1840	512	1760	1410	3260	4680	608	1160	1210
11	323	366	363	1850	486	1860	1150	2660	3740	567	873	1240
12	319	355	388	1720	460	2230	925	2100	3590	692	819	1010
13	318	344	430	1440	446	2260	850	1620	3730	729	889	799
14	315	336	477	1140	445	1880	926	1610	4780	689	718	698
15	312	331	560	955	434	1230	4020	1400	6000	615	588	665
16	311	326	518	837	432	928	5360	1250	6110	578	665	551
17	318	329	515	747	424	912	3650	1690	4720	617	869	698
18	329	331	638	689	419	1020	2660	1560	3480	684	775	929
19	357	328	641	652	408	1730	2030	1230	2600	932	657	801
20	395	321	557	611	395	1840	1570	1890	2300	952	543	676
21	416	314	491	571	395	1720	1220	1850	2430	846	496	598
22	418	321	451	554	392	1640	1010	1550	3530	746	880	507
23	388	346	424	551	420	1450	862	1690	4230	741	941	444
24	394	364	407	535	464	1250	760	1750	3660	688	714	381
25	408	402	410	509	468	1010	674	1620	2960	753	605	352
26	399	415	413	490	503	828	625	1640	2560	873	533	451
27	379	407	399	505	465	752	605	1560	2680	879	442	718
28	366	412	400	590	625	721	585	1670	2410	810	374	897
29	356	374	406	546	773	687	555	1380	2110	673	330	835
30	348	348	403	583	---	643	520	1050	1710	604	326	981
31	353	---	400	552	---	643	---	884	---	831	536	---
TOTAL	11027	11323	13268	23804	14030	46424	43814	92442	102951	25327	22148	23621
MEAN	356	377	428	768	484	1498	1460	2982	3432	817	714	787
MAX	418	531	641	1850	773	2510	5360	16700	11100	1340	1370	1240
MIN	311	314	339	360	392	643	520	528	723	567	326	352
AC-FT	21870	22460	26320	47220	27830	92080	86910	183400	204200	50240	43930	46850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	4665	4802	6192	7018	8100	8046	8742	13950	10750	4721	2386	2846
MAX	24830	29490	41590	55990	54750	50450	42860	69860	51960	19000	11510	18030
(WY)	1960	1975	1941	1992	1992	1992	1945	1957	1957	1940	1995	1974
MIN	181	318	299	386	484	426	922	954	1027	817	714	454
(WY)	1953	1989	1955	1940	2000	1954	1954	1996	1956	2000	2000	1954

08111500 BRAZOS RIVER NEAR HEMPSTEAD, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	1016907		430179			
ANNUAL MEAN	2786		1175		6843	
HIGHEST ANNUAL MEAN					26170	1992
LOWEST ANNUAL MEAN					1175	2000
HIGHEST DAILY MEAN	25800	Feb 3	16700	May 5	138000	May 1 1957
LOWEST DAILY MEAN	311	Oct 16	311	Oct 16	137	Nov 6 1952
ANNUAL SEVEN-DAY MINIMUM	317	Oct 11	317	Oct 11	140	Nov 3 1952
INSTANTANEOUS PEAK FLOW			18600	May 5	143000	May 2 1957
INSTANTANEOUS PEAK STAGE			24.65	May 5	54.21	May 2 1957
ANNUAL RUNOFF (AC-FT)	2017000		853300		4958000	
10 PERCENT EXCEEDS	5810		2320		17800	
50 PERCENT EXCEEDS	1640		686		2470	
90 PERCENT EXCEEDS	354		355		675	



08111700 MILL CREEK NEAR BELLVILLE, TX

LOCATION.--Lat 29°52′51", long 96°12′18", Austin County, Hydrologic Unit 12070104, on right bank at downstream side of bridge over main channel on State Highway 36, 5.0 mi southeast of Bellville, and 6.0 mi upstream from Brazos River.

DRAINAGE AREA.--376 mi^2.

PERIOD OF RECORD.--Jul 1963 to Sep 1993, Apr 2000 to Sep 2000.
Water-quality records.--Chemical data: Oct 1968 to Sep 1985. Sediment data: Oct 1966 to Sep 1985.

REVISED RECORDS.--WSP 2122: 1965(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 122.82 ft above sea level. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. No known regulation or diversions. During the year, the city of Bellville discharges sewage effluent into a tributary of Mill Creek above gage. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1899, 22.8 ft in 1940, from information by local residents and the Texas Department of Transportation.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft^3/s:

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	7.5	13	6.5	2.4	.57
2	---	---	---	---	---	---	---	122	12	5.9	2.0	.74
3	---	---	---	---	---	---	---	195	11	5.5	1.5	1.8
4	---	---	---	---	---	---	---	87	10	5.0	1.4	.94
5	---	---	---	---	---	---	---	251	10	4.6	1.4	.65
6	---	---	---	---	---	---	---	430	10	4.3	1.3	.51
7	---	---	---	---	---	---	---	102	9.8	4.2	1.2	.53
8	---	---	---	---	---	---	---	52	9.4	3.9	1.2	.63
9	---	---	---	---	---	---	---	38	12	3.6	1.6	1.0
10	---	---	---	---	---	---	---	30	27	3.5	1.7	1.7
11	---	---	---	---	---	---	---	25	215	3.3	1.5	1.5
12	---	---	---	---	---	---	---	22	458	3.1	1.3	1.8
13	---	---	---	---	---	---	---	29	246	3.0	1.3	32
14	---	---	---	---	---	---	---	26	70	3.1	1.1	37
15	---	---	---	---	---	---	---	23	40	2.8	1.1	19
16	---	---	---	---	---	---	---	22	29	2.6	1.1	8.7
17	---	---	---	---	---	---	---	16	23	2.5	.99	3.3
18	---	---	---	---	---	---	---	12	83	2.4	.82	2.1
19	---	---	---	---	---	---	---	12	53	2.3	.72	1.8
20	---	---	---	---	---	---	13	238	37	2.3	.75	1.7
21	---	---	---	---	---	---	11	310	27	2.1	.69	2.3
22	---	---	---	---	---	---	10	94	21	1.9	.74	3.1
23	---	---	---	---	---	---	10	43	16	2.2	1.6	2.9
24	---	---	---	---	---	---	9.9	29	14	21	1.8	2.3
25	---	---	---	---	---	---	9.1	23	11	21	1.1	2.2
26	---	---	---	---	---	---	7.8	20	10	7.0	.96	1.9
27	---	---	---	---	---	---	7.3	17	11	3.4	.83	1.9
28	---	---	---	---	---	---	6.8	17	9.5	2.4	.73	1.9
29	---	---	---	---	---	---	6.3	17	8.6	1.9	.66	1.9
30	---	---	---	---	---	---	6.3	17	7.4	1.6	.61	1.9
31	---	---	---	---	---	---	---	15	---	1.6	.60	---
TOTAL	---	---	---	---	---	---	---	2341.5	1513.7	140.5	36.70	140.27
MEAN	---	---	---	---	---	---	---	75.5	50.5	4.53	1.18	4.68
MAX	---	---	---	---	---	---	---	430	458	21	2.4	37
MIN	---	---	---	---	---	---	---	7.5	7.4	1.6	.60	.51
AC-FT	---	---	---	---	---	---	---	4640	3000	279	73	278
CFSM	---	---	---	---	---	---	---	.20	.13	.01	.00	.01
IN.	---	---	---	---	---	---	---	.23	.15	.01	.00	.01

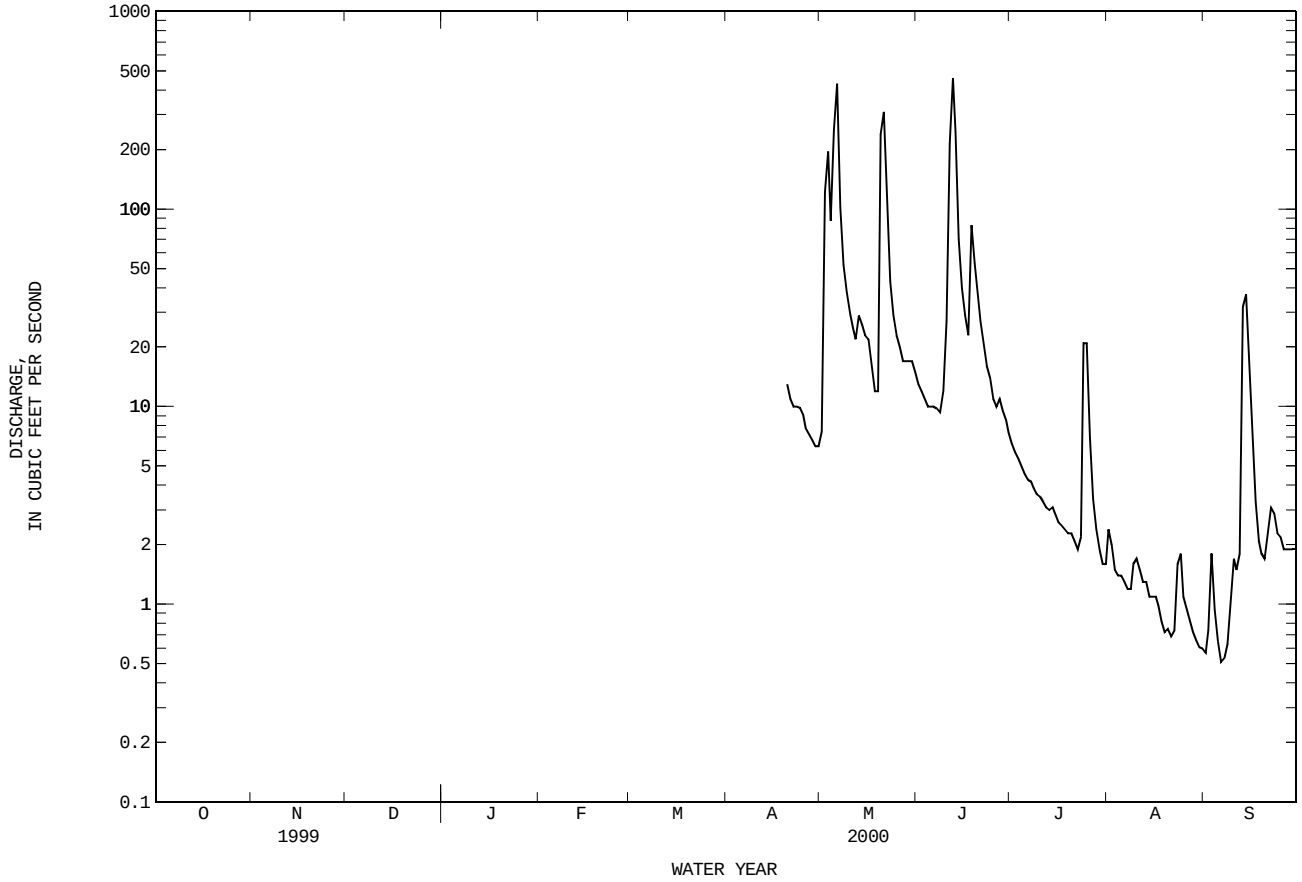
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	110	166	235	287	354	260	333	517	472	34.6	30.3	99.7
MAX	955	1178	1472	1350	2188	1202	1604	1930	2022	201	302	1202
(WY)	1974	1982	1977	1974	1992	1983	1991	1979	1987	1968	1974	1974
MIN	3.23	3.84	8.20	15.6	11.8	12.4	22.3	11.9	2.77	.98	1.18	1.14
(WY)	1989	1964	1964	1964	1967	1967	1971	1964	1990	1971	2000	1963

08111700 MILL CREEK NEAR BELLVILLE, TX--Continued

SUMMARY STATISTICS	WATER YEARS 1963 - 2000	
ANNUAL MEAN	244	
HIGHEST ANNUAL MEAN	667	1992
LOWEST ANNUAL MEAN	21.5	1967
HIGHEST DAILY MEAN	24000	Nov 1 1981
LOWEST DAILY MEAN	.08	Jul 22 1971
ANNUAL SEVEN-DAY MINIMUM	.20	Jun 28 1967
INSTANTANEOUS PEAK FLOW	44400	Jun 13 1973
INSTANTANEOUS PEAK STAGE	17.95	Jun 13 1973
ANNUAL RUNOFF (AC-FT)	176500	
ANNUAL RUNOFF (CFSM)	.65	
ANNUAL RUNOFF (INCHES)	8.80	
10 PERCENT EXCEEDS	286	
50 PERCENT EXCEEDS	34	
90 PERCENT EXCEEDS	4.0	

h See PERIOD OF RECORD paragraph.



08114000 BRAZOS RIVER AT RICHMOND, TX

LOCATION.--Lat 29°34′56", long 95°45′27", Fort Bend County, Hydrologic Unit 12070104, on right bank at upstream side of downstream bridge on U.S. Highway 90 in Richmond, 850 ft downstream from Texas and New Orleans Railroad Co. bridge, and at mile 92.0.

DRAINAGE AREA.--45,107 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan 1903 to Jun 1906, Oct 1922 to current year. Published as "at Rosenberg" Oct 1922 to Sep 1931. Jun to Nov 1901 and Jun to Sep 1902 in U.S. Department of Agriculture, Office of Experiment Stations, Bulletin Nos. 119 and 133. Gage-height records collected in this vicinity since 1914 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1392: 1933. WSP 1632: 1958. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 27.94 ft above sea level. Prior to Oct 1, 1922, various types of nonrecording gages at railroad bridge 925 ft upstream at different datums. Oct 1, 1922 to Sep 30, 1931, nonrecording chain gage at Rosenberg 7.6 mi upstream at datum about 17 ft higher; Oct 1, 1931, to Sep 30, 1975, water-stage recorder present site at datum 13.00 ft higher; Oct 1, 1975, to Dec 31, 1988, water-stage recorder at present site and at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records fair. Since water year 1941, at least 10% of contributing drainage area has been regulated by eight upstream reservoirs with a combined capacity of 669,000 acre-ft. Flow is also affected by discharge from the flood-detention pools of 147 floodwater-retarding structures with a combined detention capacity of 153,200 acre-ft. These structures control runoff from 451 mi^2 above station. Considerable water is diverted above station for irrigation and for municipal supply. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1904-05, 1923-40) 7,209 ft^3/s (5,223,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1903-06, 1923-40).--Maximum discharge, 123,000 ft^3/s Jun 6, 1929 (gage height, 53.6 ft, from floodmark), present site and datum; minimum daily, 35 ft^3/s Aug 23, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1852, 61.2 ft Dec 10, 1913, present datum, from floodmarks on right bank 1,000 ft upstream from gage. From information by Texas and New Orleans Railroad Co., stages of other floods at railroad bridge, present datum, are as follows: May 1884, 56.7 ft; Jun 13, 1885, 57.7 ft; Jul 1899, 58.6 ft; May 2, 1915, 56.3 ft; and May 9, 1922, 53.9 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	529	446	502	681	500	506	432	1200	2100	843	354
2	376	442	416	476	690	565	1030	944	982	1750	879	340
3	460	475	396	454	653	728	1440	931	957	1400	1060	492
4	459	469	465	381	605	1750	1050	1250	1040	1180	1000	708
5	351	470	537	406	598	2220	997	3900	1150	1160	883	730
6	340	469	503	406	593	2050	984	12900	955	1190	734	646
7	354	576	402	375	615	1820	1240	11700	827	1140	651	608
8	365	577	430	445	576	1770	1650	7350	746	980	605	741
9	389	596	494	442	530	1860	1810	5420	6000	832	664	837
10	453	622	506	574	505	1950	1890	5150	8600	714	1060	878
11	443	621	486	1390	532	1870	1660	4250	5950	594	1380	669
12	401	614	469	1720	572	1860	2310	3240	4530	565	1430	645
13	344	509	454	1830	587	1810	2080	2800	4300	494	1220	968
14	339	520	415	1730	539	2090	1420	2320	3940	499	974	1190
15	345	557	410	1530	445	2290	1070	1960	3880	574	886	922
16	387	542	439	1280	434	2110	1030	1780	4670	559	860	707
17	387	478	489	1090	419	1600	3580	1740	5600	494	715	733
18	369	409	558	971	427	1210	4430	1470	5350	459	625	546
19	330	411	619	844	419	1030	3510	1680	4340	381	823	388
20	351	453	643	699	485	1050	2600	2260	3410	371	915	533
21	381	491	721	511	452	1470	2060	3330	2780	443	770	720
22	424	472	735	529	443	1830	1570	4550	2350	542	584	542
23	550	431	676	640	469	1670	1290	2890	2450	612	522	530
24	611	417	624	612	504	1640	971	2270	3340	758	563	518
25	579	461	588	537	484	1500	889	2010	3780	714	768	355
26	505	514	562	480	506	1300	703	1990	3440	759	799	293
27	466	476	531	549	545	1110	694	1850	2930	771	754	297
28	488	453	529	607	503	825	569	1900	2590	816	606	282
29	425	457	537	633	487	596	564	1870	2590	940	493	265
30	425	449	519	703	---	536	532	1890	2380	909	441	485
31	553	---	519	684	---	495	---	1530	---	852	390	---
TOTAL	13002	14960	16118	24030	15298	45105	46129	99557	97057	25552	24897	17922
MEAN	419	499	520	775	528	1455	1538	3212	3235	824	803	597
MAX	611	622	735	1830	690	2290	4430	12900	8600	2100	1430	1190
MIN	330	409	396	375	419	495	506	432	746	371	390	265
AC-FT	25790	29670	31970	47660	30340	89470	91500	197500	192500	50680	49380	35550

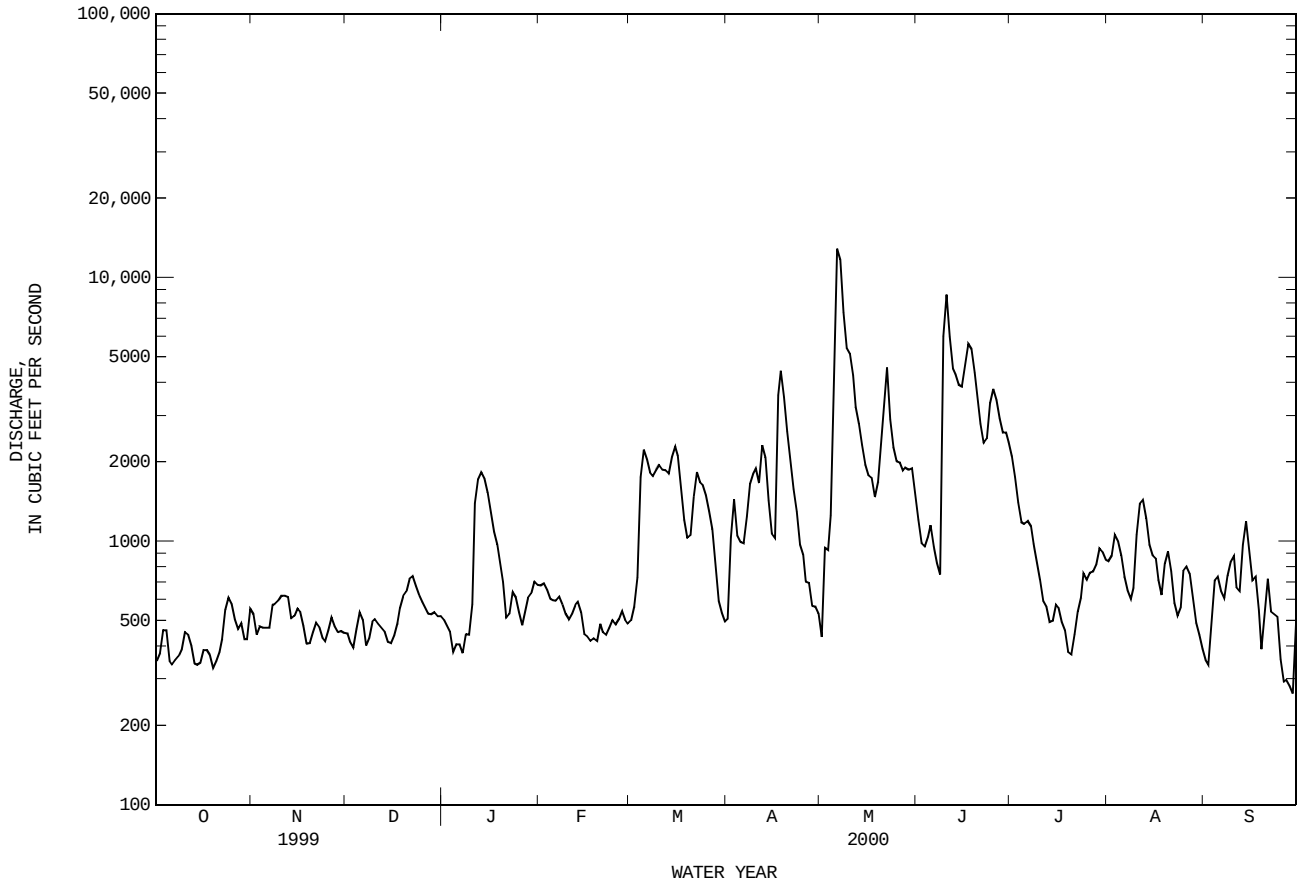
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000z, BY WATER YEAR (WY)

MEAN	5212	5612	7034	7992	8879	8973	9253	14940	11780	4848	2549	3204
MAX	28760	32360	52860	60500	54410	54050	41900	77200	58350	17100	11800	19850
(WY)	1958	1975	1941	1992	1992	1992	1945	1957	1957	1968	1995	1974
MIN	203	366	480	543	528	445	800	819	786	717	550	414
(WY)	1953	1989	1955	1952	2000	1954	1996	1996	1956	1956	1963	1954

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000z	
ANNUAL TOTAL	1119799		439627			
ANNUAL MEAN	3068		1201		7513	
HIGHEST ANNUAL MEAN					26620	1992
LOWEST ANNUAL MEAN					1201	2000
HIGHEST DAILY MEAN	23500	Feb 5	12900	May 6	118000	May 5 1957
LOWEST DAILY MEAN	330	Oct 19	265	Sep 29	55	Jul 5 1956
ANNUAL SEVEN-DAY MINIMUM	357	Oct 13	356	Sep 24	93	Jul 4 1956
INSTANTANEOUS PEAK FLOW			14600	May 6	119000	May 5 1957
INSTANTANEOUS PEAK STAGE			20.76	May 6	50.30	Oct 21 1994
ANNUAL RUNOFF (AC-FT)	2221000		872000		5443000	
10 PERCENT EXCEEDS	6680		2400		19000	
50 PERCENT EXCEEDS	2130		646		2860	
90 PERCENT EXCEEDS	445		411		759	

z Period of regulated streamflow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct 1941 to current year.
BIOCHEMICAL DATA: Jan 1968 to Oct 1995.
PESTICIDE DATA: Oct 1967 to May 1982
SEDIMENT DATA: Apr 1957 to Sep 1996.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct 1941 to Sep 1995.
WATER TEMPERATURE: Nov 1950 to Sep 1995.
SUSPENDED-SEDIMENT DISCHARGE: Jan 1966 to Sep 1986.

REMARKS.--Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous water years using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U.S. Geological Survey District Office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,600 microsiemens, Sep 4, 1978; minimum daily, 152 microsiemens, Oct 19, 1994.
WATER TEMPERATURE: Maximum daily, 33.0°C, Aug 5, 1951; minimum daily, 1.0°C, Jan 8, 1970 and Dec 23, 24, 1989.
SEDIMENT CONCENTRATION: Maximum daily mean, 13,500 mg/L, Apr 4, 1979; minimum daily mean, 8 mg/L, Nov 29, 1967, Sep 20, and Oct 6, 7, 1980.
SEDIMENT LOAD: Maximum daily, 1,860,000 tons Apr 4, 1979; minimum daily, 9.8 tons Oct 11, 1983.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN											
25...	0955	531	730	8.1	14.0	11.6	112	190	53	54	13
APR											
27...	1140	698	500	7.7	26.0	7.8	95	150	29	45	8.2
JUL											
11...	1040	599	550	7.5	31.5	6.7	90	170	15	52	8.8
AUG											
31...	1048	391	1080	8.2	30.5	8.0	107	230	91	63	18

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
JAN										
25...	63	2	4.5	--	140	60	89	.31	8.1	376
APR										
27...	39	1	5.3	--	120	42	48	.43	12	276
JUL										
11...	40	1	5.6	152	--	48	46	.32	12	305
AUG										
31...	128	4	6.6	140	--	97	180	.36	13	592

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)	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)
JAN										
25...	.374	.021	.395	<.020	.27	<.050	<.010	--	3	130
APR										
27...	1.25	.026	1.27	<.020	.46	.092	.091	.28	--	--
JUL										
11...	--	<.010	<.050	<.020	.34	.084	.082	.25	--	--
AUG										
31...	--	<.010	<.050	<.020	.35	E.048	.037	.11	5	153

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued

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

DATE	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)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JAN										
25...	<.14	<.80	E1.1	<10	<1.0	2.8	<.2	<2	<1.0	<20
APR										
27...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.14	<.80	E.80	<10	<1.0	3.3	<.2	<2	<1.0	<20

08115000 BIG CREEK NEAR NEEDVILLE, TX

LOCATION.--Lat 29°28′35", long 95°48′45", Fort Bend County, Hydrologic Unit 12070104, near center of stream 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 mi^2.

PERIOD OF RECORD.--May 1947 to Jun 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 Jun 1950, and May 1959 to Mar 1960, nonrecording gage at datum 10.00 ft higher. Mar to May 1959, and Mar 1960 to Sep 1967, water-stage recorder at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. No known regulation or diversions. Channel was rectified in 1956. Low flow supplemented by drainage from irrigated fields. No flow at times. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, 24.4 ft in Aug 1945 before channel rectification, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s:

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

No peak greater than base discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.0	1.5	.41	2.0	.43	.64	1.4	1.5	.78	3.1	1.0
2	2.3	2.9	1.4	.60	2.5	.52	56	196	1.1	.27	3.3	.73
3	2.6	2.7	.77	.63	1.7	1.1	182	107	1.2	.41	3.3	.63
4	2.7	2.9	1.8	.82	1.5	1.3	48	33	1.1	.88	2.8	.52
5	2.7	3.0	6.1	.61	1.3	1.3	15	18	1.2	.75	3.5	.53
6	2.7	2.0	1.7	.75	1.4	1.4	5.2	9.9	1.6	1.2	3.3	1.2
7	2.5	.95	1.5	.68	1.5	.84	1.9	4.3	1.2	1.7	3.4	2.7
8	2.7	.78	.63	1.5	1.1	.55	1.2	2.2	1.1	.99	1.9	2.8
9	3.3	2.1	.45	1.5	.73	1.1	.93	1.7	1.5	.70	1.5	2.8
10	3.3	2.6	.33	.88	.82	1.4	.86	1.3	7.6	.71	1.8	3.2
11	3.6	1.9	.49	.35	.51	1.4	1.4	1.2	11	1.5	1.6	2.8
12	3.2	2.1	.51	.70	.42	1.4	373	1.1	5.7	2.1	1.8	3.9
13	3.0	2.4	.61	.24	.47	1.4	161	1.3	3.5	2.4	1.2	3.1
14	2.9	1.9	1.4	.06	1.2	2.1	41	1.3	2.3	1.3	2.2	1.9
15	3.1	2.0	1.2	.31	1.4	16	20	1.2	1.5	1.8	2.7	2.5
16	2.6	1.9	.86	.44	1.5	5.7	9.2	.58	1.4	2.5	2.7	2.5
17	1.9	.98	.91	.47	1.5	1.4	4.6	.45	3.3	2.8	2.7	2.2
18	1.9	2.6	.93	.54	1.5	.46	3.6	.58	13	2.6	2.6	2.3
19	2.3	2.0	.95	.59	1.4	.67	3.1	1.0	5.0	1.4	2.7	1.7
20	1.9	1.8	1.3	.52	1.3	1.1	1.8	303	2.7	1.0	2.6	.76
21	2.3	1.9	2.4	.49	1.3	1.3	1.3	118	2.2	.69	2.6	.75
22	2.9	2.3	1.2	.52	.85	1.6	1.2	38	2.1	.77	2.1	1.3
23	2.0	2.4	.98	.55	3.9	1.4	1.2	19	2.0	1.2	1.5	.75
24	1.9	1.8	.93	.58	6.5	1.3	1.2	9.0	1.8	2.4	.76	.26
25	2.8	2.2	1.2	.16	2.3	1.1	1.2	5.5	1.7	1.5	.31	.96
26	4.1	2.7	.99	.01	1.7	1.3	.53	2.7	1.6	1.5	2.1	1.2
27	3.2	1.7	1.1	26	1.5	1.3	.21	1.7	1.4	2.5	2.6	1.1
28	3.1	1.6	.87	35	1.3	1.3	.28	1.2	1.3	2.3	2.4	1.2
29	3.2	1.5	.51	4.1	.88	.64	.98	.89	1.5	1.5	2.5	1.1
30	3.1	1.7	.22	1.9	---	.42	1.2	.90	1.4	1.0	2.6	1.1
31	3.2	---	.16	1.7	---	.44	---	1.0	---	1.4	2.3	---
TOTAL	85.7	62.31	35.90	83.61	45.98	53.67	939.73	884.40	85.5	44.55	72.47	49.49
MEAN	2.76	2.08	1.16	2.70	1.59	1.73	31.3	28.5	2.85	1.44	2.34	1.65
MAX	4.1	3.0	6.1	35	6.5	16	373	303	13	2.8	3.5	3.9
MIN	1.9	.78	.16	.01	.42	.42	.21	.45	1.1	.27	.31	.26
AC-FT	170	124	71	166	91	106	1860	1750	170	88	144	98

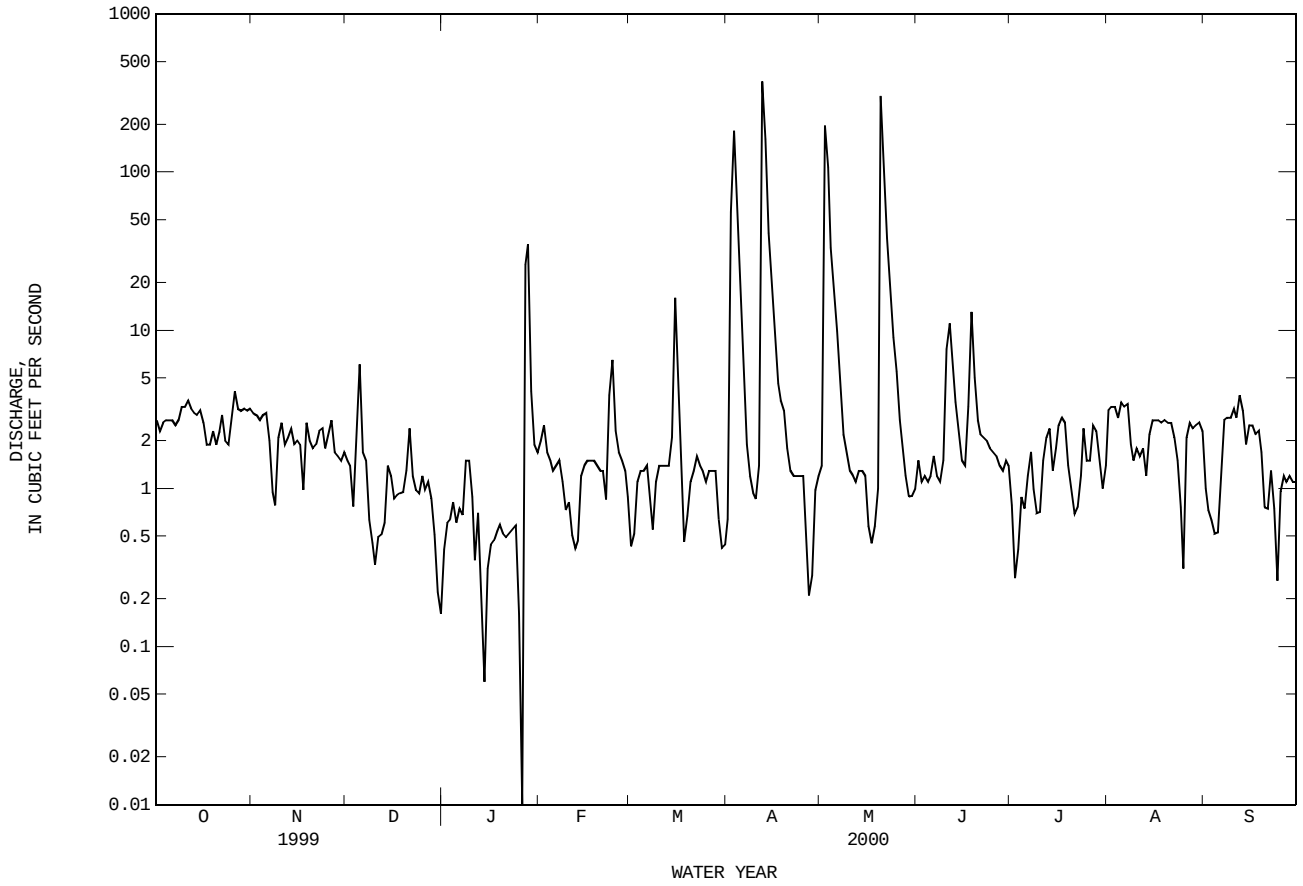
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000h, BY WATER YEAR (WY)

MEAN	44.7	35.3	39.2	36.4	44.1	22.1	36.0	39.9	46.6	14.2	23.8	43.9
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

08115000 BIG CREEK NEAR NEEDVILLE, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000h	
ANNUAL TOTAL	4541.70		2443.31			
ANNUAL MEAN	12.4		6.68		35.4	
HIGHEST ANNUAL MEAN					91.1	1973
LOWEST ANNUAL MEAN					3.18	1947
HIGHEST DAILY MEAN	830	Jan 2	373	Apr 12	7080	Jun 26 1960
LOWEST DAILY MEAN	.16	Dec 31	.01	Jan 26	.00	Jun 13 1947
ANNUAL SEVEN-DAY MINIMUM	.63	Dec 8	.37	Jan 11	.00	Jun 13 1947
INSTANTANEOUS PEAK FLOW			852	Apr 12	10400	Jun 26 1960
INSTANTANEOUS PEAK STAGE			17.05	Apr 12	24.23	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	9010		4850		25650	
10 PERCENT EXCEEDS	14		4.0		48	
50 PERCENT EXCEEDS	2.0		1.5		1.7	
90 PERCENT EXCEEDS	.98		.53		.10	

h See PERIOD OF RECORD paragraph.



08116650 BRAZOS RIVER NEAR ROSHARON, TX

LOCATION.--Lat 29°20′58", long 95°34′56", Fort Bend-Brazoria County line, Hydrologic Unit 12070104, on right bank at downstream side of bridge on Farm Road 1462, 2.0 mi downstream from Big Creek, 2.1 mi upstream from Cow Creek, and 7.3 mi west of Rosharon and at mile 56.7.

DRAINAGE AREA.--45,339 mi^2, approximately, of which 9,566 mi^2 probably is noncontributing.

PERIOD OF RECORD.--Apr 1967 to Sep 1980, Apr 1984 to current year.
Water-quality records.--Chemical data: Oct 1967 to Sep 1980. Biochemical data: Oct 1967 to Sep 1980. Sediment data: Oct 1974 to Sep 1980. Specific conductance: Oct 1967 to Sep 1980. Water temperature: Oct 1967 to Sep 1980.

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. Since installation of gage in Apr 1967, at least 10% of contributing drainage area has been regulated by 24 upstream reservoirs with a combined capacity of 2,660,000 acre-ft. Flow is affected at times by discharge from the flood-detention pools of 147 floodwater- retarding structures with a combined detention capacity of 153,200 acre-ft. These structures control runoff from 451 mi^2. Water is diverted above station for irrigation, industrial, and municipal supply which materially affects low flows. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since at least 1884, 56.4 ft about Dec 11, 1913, from information by the Texas Department of Transportation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	457	319	557	621	305	291	369	e880	1500	436	119
2	284	388	334	561	628	277	514	787	860	1290	409	91
3	270	387	423	474	603	334	2850	2350	863	1070	465	54
4	348	314	435	430	567	573	2810	1410	919	876	568	153
5	344	310	626	356	526	1370	1400	1830	1140	794	515	322
6	253	311	578	281	515	1730	1030	5810	1300	765	422	355
7	211	302	510	274	534	1630	853	11200	1280	793	334	310
8	226	377	424	293	592	1490	1010	8450	2500	761	277	293
9	237	405	523	483	518	1350	1220	5430	6060	666	246	379
10	255	427	599	360	477	1400	1340	4160	11500	e554	282	466
11	328	449	590	450	466	1430	1330	3750	9490	e415	566	531
12	397	444	596	1200	462	1380	1740	2980	4570	e309	763	403
13	291	455	621	1430	403	1350	3840	2270	3340	e272	771	392
14	304	462	566	1380	424	1290	2080	1950	3150	200	640	627
15	240	462	514	1320	379	1720	1330	1580	2780	198	496	741
16	323	498	493	1170	312	1680	1010	1350	2980	196	439	553
17	341	494	335	990	299	1470	1030	1210	3690	191	406	406
18	367	460	336	857	297	1140	3100	1130	4340	134	332	415
19	374	400	385	763	286	902	3210	955	3850	79	277	312
20	438	392	483	658	276	794	2450	5310	3040	41	397	209
21	351	408	528	534	311	815	1860	4830	2370	27	464	495
22	339	496	648	411	310	1200	1480	4080	1880	51	371	695
23	362	659	658	391	313	1390	1130	3630	1620	117	278	527
24	455	596	611	485	459	1250	923	2250	1880	213	218	453
25	522	437	565	533	462	1190	749	1660	2470	324	233	417
26	511	485	526	472	411	1050	660	e1420	2600	316	374	265
27	444	485	504	459	398	934	510	e1220	2330	330	405	176
28	403	382	485	1010	394	779	485	e1110	1940	340	382	103
29	403	331	475	777	392	557	409	e1030	1870	317	291	74
30	307	320	473	620	---	381	388	e970	1790	400	201	60
31	377	---	466	625	---	321	---	e930	---	405	155	---
TOTAL	10613	12793	15629	20604	12635	33482	43032	87411	89282	13944	12413	10396
MEAN	342	426	504	665	436	1080	1434	2820	2976	450	400	347
MAX	522	659	658	1430	628	1730	3840	11200	11500	1500	771	741
MIN	211	302	319	274	276	277	291	369	860	27	155	54
AC-FT	21050	25370	31000	40870	25060	66410	85350	173400	177100	27660	24620	20620

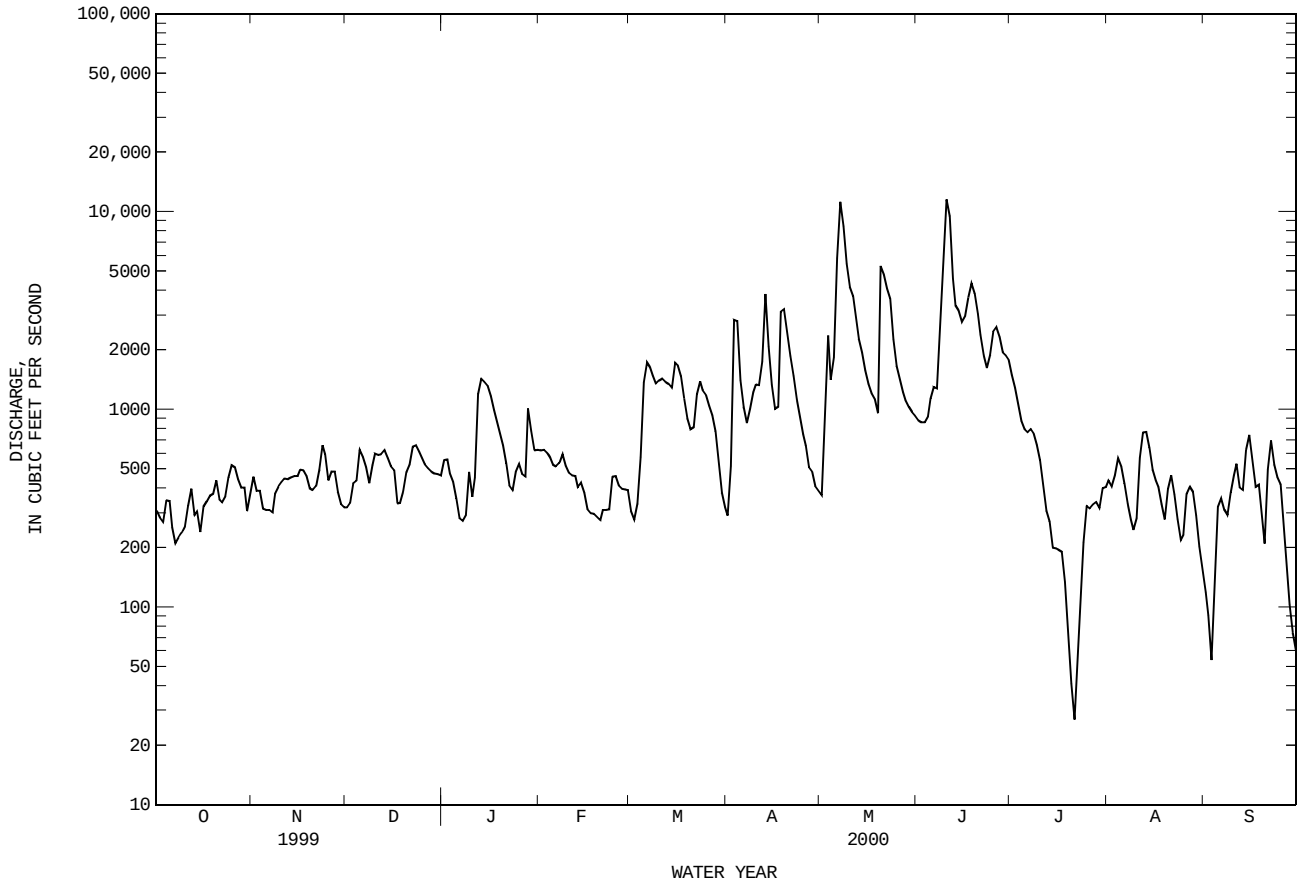
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	5203	5997	7818	10340	10570	11990	10550	12920	12420	4482	2551	3182
MAX	24240	33580	23360	70560	60530	60170	32050	39370	41010	18200	11370	19370
(WY)	1974	1975	1992	1992	1992	1992	1977	1990	1987	1968	1995	1974
MIN	342	290	504	665	436	498	511	312	367	246	400	347
(WY)	2000	1989	2000	2000	2000	1971	1996	1978	1971	1971	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	1067871		362234			
ANNUAL MEAN	2926		990		8349	
HIGHEST ANNUAL MEAN					29050	1992
LOWEST ANNUAL MEAN					990	2000
HIGHEST DAILY MEAN	24800	Feb 5	11500	Jun 10	83900	Oct 22 1994
LOWEST DAILY MEAN	211	Oct 7	27	Jul 21	27	Jul 21 2000
ANNUAL SEVEN-DAY MINIMUM	265	Oct 5	91	Jul 17	44	Apr 4 1967
INSTANTANEOUS PEAK FLOW			Unknown	Unknown	84400	Oct 22 1994
INSTANTANEOUS PEAK STAGE			Unknown	Unknown	51.89	Jan 3 1992
ANNUAL RUNOFF (AC-FT)	2118000		718500		6049000	
10 PERCENT EXCEEDS	6670		2260		21500	
50 PERCENT EXCEEDS	1790		496		3230	
90 PERCENT EXCEEDS	335		277		639	

e Estimated

08116650 BRAZOS RIVER NEAR ROSHARON, TX--Continued



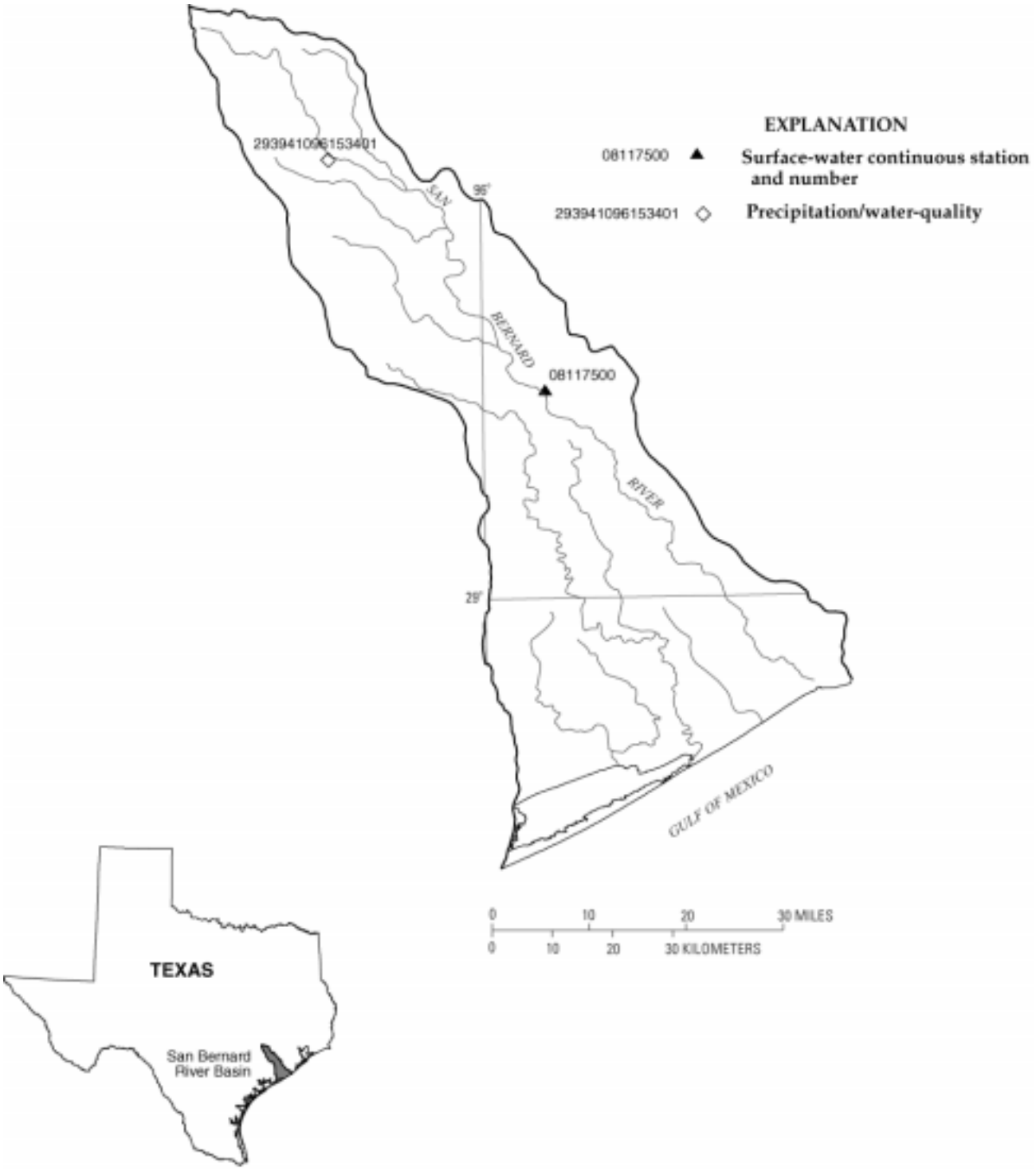


Figure 10.--Map showing location of gaging stations in the San Bernard River Basin

08117500 San Bernard River near Boling, TX 472
293941096153401 Attwater Prarie Chicken National Wildlife Refuge
near Eagle Lake, TX 474

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 mi^2.

PERIOD OF RECORDS.--May 1954 to current year.
Water-quality records.--Chemical data: Feb 1978 to Sep 1986. Biochemical data: Feb 1978 to Sep 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. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 43.5 ft in 1913 (probably Dec). Flood in Sep 1938 reached a stage of 43.3 ft, from information by local resident.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 20	2200	5,060	22.81	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	17	8.7	8.5	20	8.9	9.0	31	145	89	192	36
2	98	19	8.3	8.5	16	7.6	17	66	145	82	187	33
3	115	16	8.1	8.6	14	7.0	541	547	157	72	202	35
4	110	14	9.6	8.1	13	9.1	1190	879	141	68	233	39
5	94	12	13	7.9	11	11	1190	1150	119	68	260	40
6	75	11	17	8.2	9.5	8.3	858	1260	110	75	227	41
7	55	9.5	20	9.0	8.9	6.9	521	1200	122	94	202	39
8	39	8.7	21	15	10	6.3	325	815	116	102	152	33
9	29	8.3	16	18	8.9	5.8	205	482	104	97	116	29
10	25	7.9	13	15	8.4	5.5	128	286	148	93	113	31
11	22	7.8	11	12	11	5.6	81	157	253	94	109	40
12	21	7.9	10	12	11	5.4	404	93	363	95	85	51
13	37	8.2	10	11	11	5.5	1250	68	528	94	57	53
14	43	7.8	9.9	9.0	9.3	7.5	1220	58	647	104	39	48
15	44	8.0	9.4	7.9	7.9	45	962	61	605	91	34	115
16	62	7.5	9.0	6.6	7.1	172	660	68	400	89	39	216
17	53	6.9	9.0	7.0	7.0	267	475	55	246	101	45	195
18	56	6.5	8.9	6.9	6.6	195	350	35	157	105	53	152
19	50	6.1	9.0	6.7	6.9	122	220	24	189	105	47	118
20	44	6.2	10	6.7	6.8	81	133	3770	234	e102	40	94
21	54	6.2	11	6.8	6.2	59	84	4200	227	e98	33	70
22	66	5.9	11	6.5	5.9	41	54	2630	211	e102	30	48
23	65	6.0	12	6.5	18	29	36	1810	204	e105	35	36
24	59	6.6	11	6.5	46	22	24	1240	168	e109	55	33
25	47	7.4	10	6.3	28	19	19	762	126	121	109	38
26	40	7.5	9.4	6.2	26	15	15	498	92	172	111	39
27	31	8.7	9.8	9.3	20	14	14	298	70	212	105	38
28	24	12	9.6	97	14	12	15	166	60	245	87	46
29	24	10	8.9	83	10	11	16	112	74	238	67	55
30	23	9.5	8.6	57	---	10	23	143	82	229	57	65
31	18	---	8.4	34	---	9.3	---	164	---	207	50	---
TOTAL	1599	276.1	340.6	511.7	378.4	1223.7	11039.0	23128	6243	3658	3171	1906
MEAN	51.6	9.20	11.0	16.5	13.0	39.5	368	746	208	118	102	63.5
MAX	115	19	21	97	46	267	1250	4200	647	245	260	216
MIN	18	5.9	8.1	6.2	5.9	5.4	9.0	24	60	68	30	29
AC-FT	3170	548	676	1010	751	2430	21900	45870	12380	7260	6290	3780

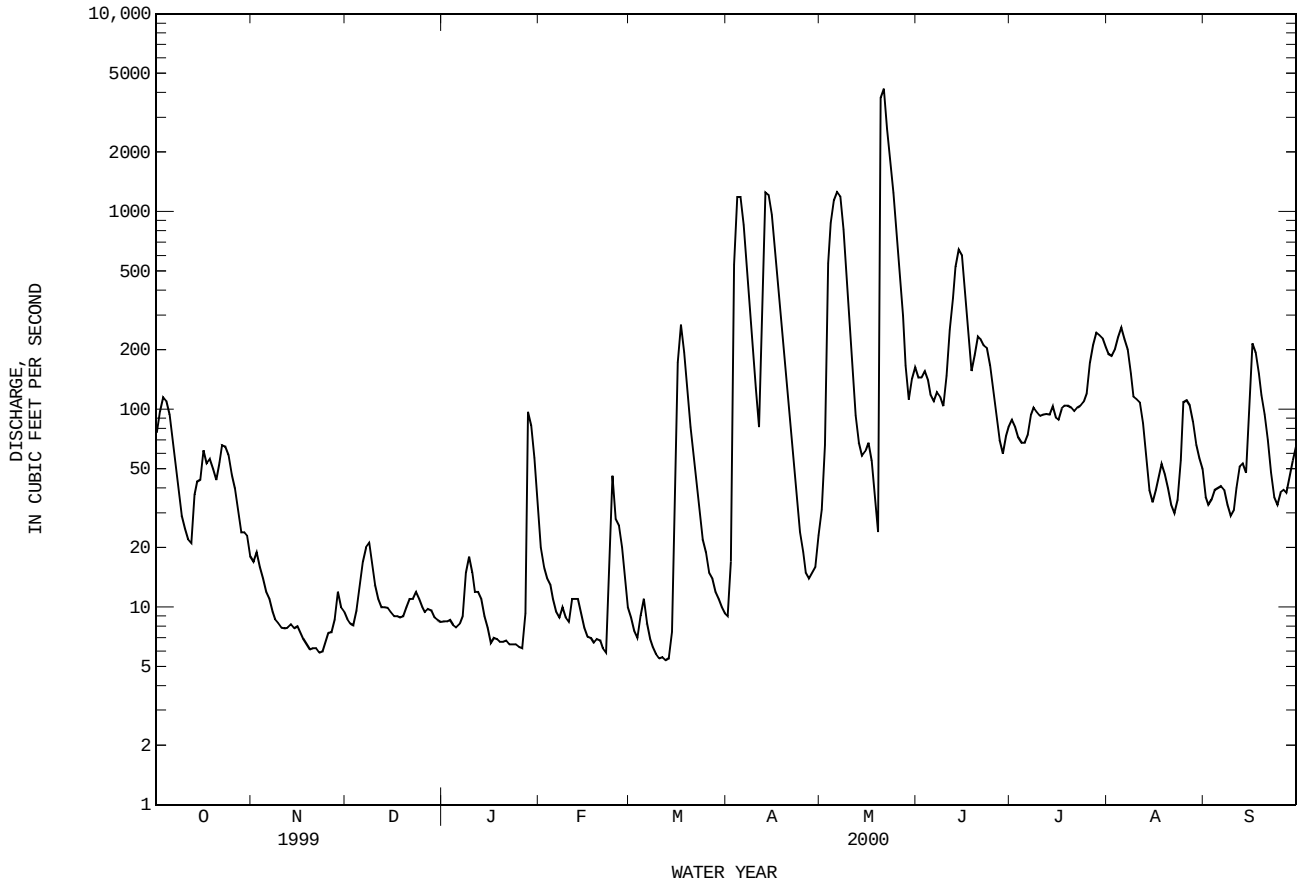
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	683	530	452	570	667	419	496	648	835	324	206	617
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

08117500 SAN BERNARD RIVER NEAR BOLING, TX--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	84991.7		53474.5			
ANNUAL MEAN	233		146		539	
HIGHEST ANNUAL MEAN					1357	1992
LOWEST ANNUAL MEAN					37.9	1956
HIGHEST DAILY MEAN	4830	Mar 20	4200	May 21	31300	Oct 21 1998
LOWEST DAILY MEAN	5.9	Nov 22	5.4	Mar 12	1.7	Dec 7 1988
ANNUAL SEVEN-DAY MINIMUM	6.2	Nov 18	5.9	Mar 7	2.2	Dec 1 1988
INSTANTANEOUS PEAK FLOW			5060	May 20	31900	Oct 21 1998
INSTANTANEOUS PEAK STAGE			22.81	May 20	42.61	Oct 21 1998
ANNUAL RUNOFF (AC-FT)	168600		106100		390800	
10 PERCENT EXCEEDS	481		255		1300	
50 PERCENT EXCEEDS	81		40		123	
90 PERCENT EXCEEDS	9.7		7.5		17	

e Estimated



293941096153401 ATTWATER PRAIRIE CHICKEN NATIONAL WILDLIFE REFUGE NEAR EAGLE LAKE, TEXAS
(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.--Sep 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, Jun 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 1999 TO SEPTEMBER 2000

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG-NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS-SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	NI-TROGEN AMMON. ATM DEP WET DIS AS N (MG/L) (83044)	NI-TROGEN NITRATE ATM DEP WET DIS AS N (MG/L) (83068)	CHLO-RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS P (MG/L) (83108)
OCT 13-19	0730	34	4.1	.153	.015	.023	.056	.300	.44	.13	3.00	<.001
NOV 16-23	0812	20	5.0	.214	.208	.078	2.28	.180	.12	3.22	1.28	<.001
NOV 23-DEC 01	0727	--	--	.473	.030	.027	.110	.260	.35	.15	2.55	<.001
DEC 07-14	0756	55	6.5	2.86	.570	.265	5.07	.350	.45	8.59	4.50	<.001
DEC 14-21	0804	--	--	.993	.119	.122	.847	.430	.90	1.37	3.56	<.001
DEC 28 1999-JAN 04 2000	0820	--	--	.735	.357	.181	3.05	.580	.39	5.09	6.04	<.001
JAN 04-11	0820	25	4.5	.281	.162	.071	1.65	.210	.32	2.23	2.10	<.001
JAN 25-FEB 01	0800	25	4.1	.186	.169	.064	1.52	.170	.22	2.52	1.84	<.001
FEB 01-08	0809	30	4.4	.321	.136	.063	1.11	.390	.48	1.75	2.60	<.001
FEB 22-29	0824	10	5.2	.150	.079	.058	.661	.090	.09	1.15	.85	<.001
MAR 07-14	0803	15	6.3	.845	.113	.074	.789	.270	.23	1.20	2.03	<.001
MAR 14-21	0753	17	4.9	.232	.032	.020	.218	.110	.20	.35	.99	<.001
MAR 21-28	0750	62	4.3	1.49	.660	.330	5.38	.750	1.02	8.81	5.84	<.001
MAR 28-APR 04	0800	13	5.6	.869	.038	.067	.208	.270	1.42	.32	1.86	<.001
APR 11-18	0754	7	5.3	.071	.020	.023	.161	.120	.09	.28	.58	<.001
APR 18-25	0745	--	--	9.19	.470	.560	2.63	1.16	1.30	4.21	7.87	<.001
APR 25-MAY 02	0800	11	5.1	.198	.044	.062	.337	.380	.17	.60	.85	<.001
MAY 02-09	0921	11	5.3	.258	.061	.043	.453	.230	.22	.71	.94	<.001
MAY 09-16	0748	12	5.8	.382	.059	.089	.357	.540	.27	.61	1.47	<.001
MAY 16-23	0832	6	5.2	.049	.022	.055	.228	.250	.10	.35	.62	<.001
MAY 23-30	0751	9	5.4	.122	.060	.108	.518	.410	.13	.84	.79	.011
MAY 30-JUN 06	0856	41	4.4	.599	.143	.147	1.08	1.06	.96	2.38	3.39	<.001
JUN 06-13	0822	13	5.2	.203	.098	.044	.787	.160	.14	1.37	.94	<.001
JUN 13-20	0750	10	5.4	.108	.112	.038	.930	.020	.06	1.64	.52	<.001
JUN 20-27	0820	21	5.2	.561	.232	.116	1.93	.260	.42	3.10	1.75	<.001
JUL 18-25	0845	24	4.6	.499	.045	.028	.133	.260	.47	.21	2.53	<.001
JUL 25-AUG 01	0812	15	4.8	.200	.028	.024	.156	.230	.35	.23	1.11	<.001
AUG 01-08	0800	22	5.3	.768	.120	.134	.682	.700	.50	1.04	1.64	<.001
AUG 08-15	0750	6	5.6	.068	.026	.016	.225	.140	.10	.37	.27	<.001
AUG 22-29	0830	28	4.3	.197	.036	.051	.236	.500	.64	.41	2.38	<.001
SEP 12-19	0810	16	4.7	.140	.023	.013	.156	.070	.30	.25	.99	<.001
SEP 19-26	0750	14	4.6	.049	.032	.016	.288	.120	.10	.49	1.52	<.001

293941096153401 ATTWATER PRAIRIE CHICKEN NATIONAL WILDLIFE REFUGE NEAR EAGLE LAKE, TEXAS--Continued
(National Atmospheric Deposition Program (NADP))

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

DATE	CALCIUM ATM DEP WET DIS (MG/M2) (82933)	MAG-NESIUM ATM DEP WET DIS (MG/M2) (83003)	POTAS-SIUM ATM DEP WET DIS (MG/M2) (83121)	SODIUM ATM DEP WET DIS (MG/M2) (83139)	NI-TROGEN AMMON. ATM DEP WET DIS AS N (MG/M2) (83045)	NI-TROGEN NITRATE ATM DEP WET DIS AS N (MG/M2) (83069)	CHLO-RIDE ATM DEP WET DIS (MG/M2) (82945)	SULFATE ATM DEP WET DIS AS SO4 (MG/M2) (83161)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS P (MG/M2) (83109)	HY-DROGEN ION ATM DEP WET DIS (MG/M2) (82975)	VOLUME ATM DEP WET (L) (83177)
OCT 13-19	2.9	.3	.4	1.0	5.55	8.3	2.4	56.4	<.1	1.1	1.280
NOV 16-23	5.0	4.8	1.8	53.2	4.18	2.7	75.1	29.9	<.1	.1	1.580
NOV 23-DEC 01	2.3	.2	.1	.5	1.27	1.8	.7	12.6	<.1	.2	.330
DEC 07-14	17.7	3.5	1.6	31.4	2.17	2.8	53.2	27.9	<.1	<.1	.420
DEC 14-21	2.3	.3	.3	2.0	1.01	2.1	3.2	8.4	<.1	.1	.160
DEC 28 1999-JAN 04 2000	.3	.1	.1	1.2	.220	.2	2.0	2.4	<.1	M	.030
JAN 04-11	4.9	2.8	1.2	28.9	3.67	5.6	39.0	36.8	<.1	.5	1.190
JAN 25-FEB 01	5.9	5.4	2.0	48.7	5.50	6.9	80.7	58.9	<.1	.7	2.170
FEB 01-08	2.7	1.1	.5	9.4	3.28	4.1	14.9	22.1	<.1	.3	.580
FEB 22-29	6.3	3.3	2.4	27.7	3.79	3.9	48.1	35.5	<.1	.3	2.850
MAR 07-14	3.0	.4	.3	2.8	.990	.8	4.3	7.3	<.1	<.1	.240
MAR 14-21	9.7	1.3	.8	9.1	4.60	8.2	14.8	41.5	<.1	.5	2.850
MAR 21-28	3.6	1.6	.8	13.1	1.82	2.5	21.5	14.2	<.1	M	.160
MAR 28-APR 04	59.7	2.6	4.6	14.3	18.9	9.7	21.7	128	<.1	.1	4.660
APR 11-18	3.0	.8	1.0	6.7	5.30	3.8	11.5	24.2	<.1	.3	2.840
APR 18-25	7.7	.4	.5	2.2	.970	1.1	3.5	6.6	<.1	<.1	.060
APR 25-MAY 02	13.8	3.0	4.3	23.4	26.5	12.2	41.7	59.0	<.1	.1	4.710
MAY 02-09	3.8	.9	.6	6.7	3.46	3.3	10.6	13.9	<.1	.1	1.000
MAY 09-16	4.6	.7	1.1	4.3	6.53	3.2	7.3	17.8	<.1	M	.820
MAY 16-23	2.8	1.3	3.2	13.2	14.4	5.6	20.4	36.3	<.1	.2	3.940
MAY 23-30	1.4	.7	1.3	6.1	4.83	1.5	9.8	9.2	.1	M	.800
MAY 30-JUN 06	.7	.2	.2	1.2	1.20	1.1	2.7	3.8	<.1	.1	.080
JUN 06-13	12.3	5.9	2.7	47.5	9.83	8.5	83.0	56.5	<.1	.4	4.100
JUN 13-20	2.0	2.0	.7	16.9	.450	1.1	29.8	9.4	<.1	.1	1.230
JUN 20-27	3.3	1.4	.7	11.4	1.50	2.5	18.3	10.3	<.1	M	.400
JUL 18-25	10.7	1.0	.6	2.8	5.67	9.9	4.5	54.0	<.1	.8	1.450
JUL 25-AUG 01	6.2	.9	.8	4.9	7.29	10.9	7.1	34.7	<.1	.6	2.110
AUG 01-08	4.1	.6	.7	3.6	3.71	2.6	5.5	8.7	<.1	<.1	.360
AUG 08-15	1.5	.6	.4	5.0	3.17	2.2	8.3	6.1	<.1	M	1.520
AUG 22-29	1.6	.3	.4	1.9	4.10	5.2	3.3	19.1	<.1	.3	.550
SEP 12-19	15.0	2.5	1.4	16.8	7.27	32.5	26.6	107	<.1	3.0	7.290
SEP 19-26	.7	.4	.2	3.9	1.64	1.3	6.7	20.5	<.1	.3	.920

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08067500	Cedar Bayou nr Crosby, TX	05-23-00	0936	118	151	22.0
08067650	W Fk San Jacinto Rv bl Lk Conroe nr Conroe, TX	01-05-00	1416	1.4	520	10.1
	W Fk San Jacinto Rv bl Lk Conroe nr Conroe, TX	03-01-00	1343	.94	488	21.2
	W Fk San Jacinto Rv bl Lk Conroe nr Conroe, TX	04-28-00	1238	.68	440	24.1
	W Fk San Jacinto Rv bl Lk Conroe nr Conroe, TX	08-02-00	1557	.61	530	29.0
	W Fk San Jacinto Rv bl Lk Conroe nr Conroe, TX	08-31-00	1336	.19	566	29.9
08068000	W Fk San Jacinto Rv nr Conroe, TX	01-05-00	1159	22	1270	11.6
	W Fk San Jacinto Rv nr Conroe, TX	03-01-00	1018	25	955	20.5
	W Fk San Jacinto Rv nr Conroe, TX	04-27-00	0801	21	675	21.9
	W Fk San Jacinto Rv nr Conroe, TX	08-02-00	1250	14	1220	31.2
	W Fk San Jacinto Rv nr Conroe, TX	08-31-00	1110	11	1480	28.8
08068090	W Fk San Jacinto Rv abv Lk Houston nr Porter, TX	12-29-99	1225	34	830	10.8
	W Fk San Jacinto Rv abv Lk Houston nr Porter, TX	03-02-00	1354	35	713	26.0
	W Fk San Jacinto Rv abv Lk Houston nr Porter, TX	04-25-00	0858	28	665	20.2
	W Fk San Jacinto Rv abv Lk Houston nr Porter, TX	07-11-00	1630	18	940	36.3
	W Fk San Jacinto Rv abv Lk Houston nr Porter, TX	08-07-00	1755	16	984	35.0
08068275	Spg Ck nr Tomball, TX	04-05-00	1230	7.4	237	16.0
	Spg Ck nr Tomball, TX	05-03-00	1443	91	242	20.0
	Spg Ck nr Tomball, TX	05-20-00	1645	1460	74	22.0
08068325	Willow Ck nr Tomball, TX	05-20-00	0950	1260	38	21.8
08068390	Bear Branch at Research Blvd, The Woodlands, TX	05-24-00	0905	25	113	25.7
	Bear Branch at Research Blvd, The Woodlands, TX	07-12-00	1349	.16	459	30.8
	Bear Branch at Research Blvd, The Woodlands, TX	08-04-00	1308	.13	766	28.8
08068400	Panther Branch at Gosling Rd, The Woodlands, TX	05-02-00	1630	570	154	19.8
	Panther Branch at Gosling Rd, The Woodlands, TX	07-10-00	1531	3.8	853	30.8
	Panther Branch at Gosling Rd, The Woodlands, TX	08-07-00	1235	3.3	898	28.8
	Panther Branch at Gosling Rd, The Woodlands, TX	09-27-00	1506	2.2	915	23.9
	Panther Branch at Gosling Rd, The Woodlands, TX	09-27-00	1553	4.5	864	24.1
08068450	Panther Branch nr Spg, TX	04-05-00	1615	57	465	23.2
	Panther Branch nr Spg, TX	08-03-00	1555	9.7	700	30.6
08068500	Spg Ck nr Spg, TX	03-01-00	0818	21	657	18.7
	Spg Ck nr Spg, TX	04-26-00	0918	15	625	22.0
	Spg Ck nr Spg, TX	05-24-00	1350	295	144	26.8
	Spg Ck nr Spg, TX	08-04-00	1136	14	658	28.8
08068720	Cypress Ck at Katy-Hockley Rd nr Hockley, TX	04-19-00	1025	.17	257	24.5
	Cypress Ck at Katy-Hockley Rd nr Hockley, TX	05-23-00	1410	72	94	32.1
	Cypress Ck at Katy-Hockley Rd nr Hockley, TX	06-05-00	1045	2.3	206	30.7
08068740	Cypress Ck at House-Hahl Rd nr Cypress, TX	04-11-00	1320	.48	631	21.9
	Cypress Ck at House-Hahl Rd nr Cypress, TX	05-23-00	1130	193	97	31.5
	Cypress Ck at House-Hahl Rd nr Cypress, TX	07-25-00	0830	.08	210	32.0
	Cypress Ck at House-Hahl Rd nr Cypress, TX	09-15-00	0815	22	195	25.0
08068780	Little Cypress Ck nr Cypress, TX	05-23-00	1630	19	130	27.5
08068800	Cypress Ck at Grant Rd nr Cypress, TX	07-25-00	1020	2.2	126	32.0
	Cypress Ck at Grant Rd nr Cypress, TX	09-14-00	0845	54	238	25.7
08069000	Cypress Ck nr Westfield, TX	01-05-00	1021	28	870	12.7
	Cypress Ck nr Westfield, TX	02-29-00	1255	29	740	19.6
	Cypress Ck nr Westfield, TX	04-26-00	0856	23	835	24.4
	Cypress Ck nr Westfield, TX	06-29-00	0950	30	740	30.6
	Cypress Ck nr Westfield, TX	09-12-00	1305	35	719	30.2

MULTIPLE STATION ANALYSES

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08070000	E Fk San Jacinto Rv nr Cleveland, TX	02-28-00	1111	41	173	16.1
	E Fk San Jacinto Rv nr Cleveland, TX	04-25-00	1050	26	200	20.7
	E Fk San Jacinto Rv nr Cleveland, TX	06-28-00	1417	25	164	30.6
	E Fk San Jacinto Rv nr Cleveland, TX	08-25-00	1310	18	122	28.7
08070200	E Fk San Jacinto Rv nr New Caney, TX	12-21-99	0851	43	191	10.7
	E Fk San Jacinto Rv nr New Caney, TX	02-22-00	0852	35	211	15.8
	E Fk San Jacinto Rv nr New Caney, TX	04-24-00	0934	32	211	21.5
	E Fk San Jacinto Rv nr New Caney, TX	06-27-00	1200	32	166	27.1
	E Fk San Jacinto Rv nr New Caney, TX	08-16-00	1301	12	169	29.0
08070500	Caney Ck nr Splendora, TX	03-02-00	1152	22	100	21.1
	Caney Ck nr Splendora, TX	04-24-00	1320	16	93	22.0
	Caney Ck nr Splendora, TX	07-13-00	1638	13	90	29.4
	Caney Ck nr Splendora, TX	08-07-00	1458	12	82	28.3
08071000	Peach Ck at Splendora, TX	02-28-00	1401	34	90	16.6
	Peach Ck at Splendora, TX	04-24-00	1448	19	84	21.2
	Peach Ck at Splendora, TX	08-28-00	1530	12	70	26.7
08071280	Luce Bayou abv Lk Houston nr Huffman, TX	12-29-99	0857	1.1	422	7.5
	Luce Bayou abv Lk Houston nr Huffman, TX	03-02-00	0901	1.4	540	18.9
	Luce Bayou abv Lk Houston nr Huffman, TX	03-23-00	1228	1.3	523	19.2
	Luce Bayou abv Lk Houston nr Huffman, TX	04-25-00	1350	.52	510	21.0
	Luce Bayou abv Lk Houston nr Huffman, TX	08-16-00	1042	12	334	26.1
08072300	Buffalo Bayou nr Katy, TX	02-29-00	1320	2.7	661	21.1
	Buffalo Bayou nr Katy, TX	05-31-00	1110	3.4	685	31.1
	Buffalo Bayou nr Katy, TX	09-06-00	1155	2.2	841	30.7
08072730	Bear Ck nr Barker, TX	02-28-00	1205	.81	331	17.5
	Bear Ck nr Barker, TX	04-11-00	1055	.82	258	21.7
	Bear Ck nr Barker, TX	07-12-00	1450	.65	544	35.5
	Bear Ck nr Barker, TX	09-06-00	1500	.64	768	33.5
08073500	Buffalo Bayou nr Addicks, TX	03-01-00	1310	42	746	22.2
	Buffalo Bayou nr Addicks, TX	05-23-00	0942	1730	194	25.8
	Buffalo Bayou nr Addicks, TX	07-12-00	0945	45	762	28.5
	Buffalo Bayou nr Addicks, TX	09-01-00	1115	41	843	29.7
08073600	Buffalo Bayou at W Belt Dr at Houston, TX	03-07-00	0935	50	837	21.8
	Buffalo Bayou at W Belt Dr at Houston, TX	05-23-00	1340	1740	195	26.2
	Buffalo Bayou at W Belt Dr at Houston, TX	07-11-00	1412	49	737	30.3
	Buffalo Bayou at W Belt Dr at Houston, TX	08-31-00	1400	66	828	30.7
08073700	Buffalo Bayou at Piney Point, TX	03-03-00	1225	50	786	23.2
	Buffalo Bayou at Piney Point, TX	05-24-00	0805	1540	188	27.0
	Buffalo Bayou at Piney Point, TX	07-11-00	1050	53	753	29.0
	Buffalo Bayou at Piney Point, TX	08-31-00	1130	61	835	29.7
08074020	Whiteoak Bayou at Alabonson Rd at Houston, TX	06-12-00	1303	19	731	26.0
08074150	Cole Ck at Deihl Rd, Houston, TX	07-26-00	1240	1.8	478	35.3
08074250	Brickhouse Gully at Costa Rica St, Houston, TX	06-12-00	1200	.94	549	25.5
08074500	Whiteoak Bayou at Houston, TX	02-24-00	1330	67	415	23.4
	Whiteoak Bayou at Houston, TX	04-03-00	0930	1950	161	18.3
	Whiteoak Bayou at Houston, TX	07-10-00	1020	33	795	29.5
	Whiteoak Bayou at Houston, TX	09-05-00	0840	32	720	29.5

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08074800	Keegans Bayou at Roark Rd nr Houston, TX	06-05-00	1258	29	358	27.1
08074810	Brays Bayou at Gessner Dr, Houston, TX	05-02-00	1100	1900	165	19.2
08075000	Brays Bayou at Houston, TX	03-31-00	1000	91	838	21.0
	Brays Bayou at Houston, TX	06-22-00	0955	111	752	29.4
08075400	Sims Bayou at Hiram Clarke St, Houston, TX	02-14-00	1215	9.2	1280	22.9
	Sims Bayou at Hiram Clarke St, Houston, TX	06-05-00	1537	40	400	27.0
	Sims Bayou at Hiram Clarke St, Houston, TX	07-24-00	1548	14	790	33.3
	Sims Bayou at Hiram Clarke St, Houston, TX	09-05-00	1050	9.0	980	29.0
08075730	Vince Bayou at Pasadena, TX	06-19-00	1235	1.4	323	36.5
	Vince Bayou at Pasadena, TX	08-03-00	1230	.87	348	37.4
08075770	Hunting Bayou at IH 610, Houston, TX	04-07-00	1420	8.9	770	25.5
	Hunting Bayou at IH 610, Houston, TX	06-20-00	0915	7.0	533	28.1
	Hunting Bayou at IH 610, Houston, TX	08-02-00	1020	6.2	446	29.5
08075780	Greens Bayou at Cutten Rd nr Houston, TX	07-26-00	0810	5.3	984	31.7
08075900	Greens Bayou nr US Hwy 75 nr Houston, TX	02-29-00	1037	19	865	19.7
	Greens Bayou nr US Hwy 75 nr Houston, TX	05-02-00	1300	1490	124	20.0
08076000	Greens Bayou nr Houston, TX	02-09-00	1401	30	454	19.2
	Greens Bayou nr Houston, TX	04-10-00	1220	32	594	20.7
	Greens Bayou nr Houston, TX	06-27-00	1320	46	672	26.1
	Greens Bayou nr Houston, TX	07-28-00	0810	26	895	29.0
	Greens Bayou nr Houston, TX	09-12-00	0840	39	350	28.1
08076180	Garners Bayou nr Humble, TX	09-11-00	1120	11	620	28.7
08076500	Halls Bayou at Houston, TX	04-04-00	1210	31	360	18.0
08078000	Chocolate Bayou nr Alvin, TX	03-27-00	1524	.37	970	30.1
	Chocolate Bayou nr Alvin, TX	04-12-00	1132	27	384	18.1
	Chocolate Bayou nr Alvin, TX	06-19-00	1645	25	550	31.0
	Chocolate Bayou nr Alvin, TX	08-01-00	1100	14	784	26.8
08079600	DMF Brazos Rv at Justiceburg, TX	03-23-00	1745	215	610	16.3
	DMF Brazos Rv at Justiceburg, TX	04-07-00	1025	.09	15200	14.9
	DMF Brazos Rv at Justiceburg, TX	06-05-00	1625	4.1	3160	32.6
	DMF Brazos Rv at Justiceburg, TX	06-29-00	1320	5850	370	22.5
	DMF Brazos Rv at Justiceburg, TX	06-30-00	1030	102	705	24.6
	DMF Brazos Rv at Justiceburg, TX	07-24-00	1310	5.9	1630	33.0
08080500	DMF Brazos Rv nr Aspermont, TX	03-31-00	0930	142	5920	13.5
	DMF Brazos Rv nr Aspermont, TX	07-06-00	1505	98	2640	32.5
	DMF Brazos Rv nr Aspermont, TX	08-16-00	1115	15	9520	28.5
08082000	Salt Fk Brazos Rv nr Aspermont, TX	03-01-00	1020	.16	70700	19.5
	Salt Fk Brazos Rv nr Aspermont, TX	03-31-00	1030	40	31000	13.0
	Salt Fk Brazos Rv nr Aspermont, TX	05-03-00	1555	26	32900	28.5
	Salt Fk Brazos Rv nr Aspermont, TX	06-06-00	0900	56	16400	21.5
	Salt Fk Brazos Rv nr Aspermont, TX	07-06-00	1330	14	30800	34.0
	Salt Fk Brazos Rv nr Aspermont, TX	08-16-00	0950	.02	86400	25.0

MULTIPLE STATION ANALYSES

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08082500	Brazos Rv at Seymour, TX	03-24-00	1450	12900	2800	15.0
08082700	Millers Ck nr Munday, TX	05-30-00	1400	3.7	235	27.0
08083100	Clear Fk Brazos Rv nr Roby, TX	03-31-00	1240	4.6	3580	18.0
	Clear Fk Brazos Rv nr Roby, TX	05-03-00	1840	.08	8050	24.5
	Clear Fk Brazos Rv nr Roby, TX	06-06-00	0730	.99	2070	23.5
	Clear Fk Brazos Rv nr Roby, TX	07-06-00	1200	1.7	599	29.0
08083420	Cat Claw Ck at Abilene, TX	03-02-00	0835	21	119	15.5
08083480	Cedar Ck at IH 20, Abilene, TX	03-02-00	1030	87	297	16.5
08084000	Clear Fk Brazos Rv at Nugent, TX	10-06-99	1235	.03	4700	26.5
	Clear Fk Brazos Rv at Nugent, TX	11-17-99	1055	.06	4760	18.0
	Clear Fk Brazos Rv at Nugent, TX	03-02-00	1220	.20	5300	18.5
	Clear Fk Brazos Rv at Nugent, TX	05-03-00	1100	.45	3370	24.5
08084100	Deadman Ck nr Nugent, TX	10-06-99	1150	9.6	1690	21.5
	Deadman Ck nr Nugent, TX	11-17-99	1140	15	1670	17.0
	Deadman Ck nr Nugent, TX	05-03-00	0930	10	1890	20.0
	Deadman Ck nr Nugent, TX	08-17-00	1045	5.2	1960	27.5
	Deadman Ck nr Nugent, TX	09-12-00	1140	.49	2000	26.5
	Deadman Ck nr Nugent, TX	09-20-00	1120	9.5	1970	23.0
08084800	California Ck nr Stamford, TX	10-06-99	0940	.04	9470	18.5
	California Ck nr Stamford, TX	11-17-99	0925	.08	9180	13.5
	California Ck nr Stamford, TX	03-01-00	1515	.05	9740	16.5
	California Ck nr Stamford, TX	05-03-00	1230	.06	8870	22.5
	California Ck nr Stamford, TX	06-06-00	1500	34	746	27.0
	California Ck nr Stamford, TX	08-16-00	1345	.02	8120	30.0
08085500	Clear Fk Brazos Rv at Ft Griffin, TX	12-15-99	1205	8.9	1130	8.5
	Clear Fk Brazos Rv at Ft Griffin, TX	02-02-00	1220	7.3	2010	8.5
	Clear Fk Brazos Rv at Ft Griffin, TX	04-06-00	1325	27	497	19.0
	Clear Fk Brazos Rv at Ft Griffin, TX	06-07-00	0840	216	1290	24.5
08086212	Hubbard Ck bl Albany, TX	06-07-00	1005	13	486	24.0
	Hubbard Ck bl Albany, TX	06-14-00	0935	2.6	636	25.2
08086290	Big Sandy Ck abv Breckenridge, TX	06-07-00	1115	4.6	231	24.0
08088610	Brazos Rv nr Graford, TX	11-16-99	1030	29	3090	17.0
	Brazos Rv nr Graford, TX	03-07-00	1100	59	3120	15.0
	Brazos Rv nr Graford, TX	06-13-00	1530	120	3230	24.0
	Brazos Rv nr Graford, TX	06-30-00	1430	120	3270	23.6
	Brazos Rv nr Graford, TX	08-24-00	1200	57	3390	21.0
08090800	Brazos Rv nr Dennis, TX	11-18-99	0941	30	2720	18.0
	Brazos Rv nr Dennis, TX	01-14-00	1249	39	2790	10.0
	Brazos Rv nr Dennis, TX	03-13-00	1045	60	3030	13.5
	Brazos Rv nr Dennis, TX	05-09-00	1228	116	1610	26.3
	Brazos Rv nr Dennis, TX	07-19-00	0857	110	3390	30.5
08091000	Brazos Rv nr Glen Rose, TX	11-18-99	1410	17	2060	20.0
	Brazos Rv nr Glen Rose, TX	01-19-00	1429	31	2580	17.5
	Brazos Rv nr Glen Rose, TX	03-09-00	1535	27	2060	20.5
	Brazos Rv nr Glen Rose, TX	07-20-00	1200	16	2790	35.2
	Brazos Rv nr Glen Rose, TX	08-09-00	1410	17	2060	20.0

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08091500	Paluxy Rv at Glen Rose, TX	01-20-00	1118	8.8	601	11.5
	Paluxy Rv at Glen Rose, TX	03-02-00	0840	11	280	16.0
	Paluxy Rv at Glen Rose, TX	03-02-00	0905	11	280	16.0
	Paluxy Rv at Glen Rose, TX	05-24-00	0840	16	476	29.5
	Paluxy Rv at Glen Rose, TX	07-20-00	0843	.62	427	29.4
08091750	Squaw Ck nr Glen Rose, TX	11-17-99	1305	3.3	3040	19.0
	Squaw Ck nr Glen Rose, TX	01-13-00	1110	3.9	3500	15.5
	Squaw Ck nr Glen Rose, TX	03-02-00	1305	3.9	3000	20.0
	Squaw Ck nr Glen Rose, TX	05-24-00	1315	3.8	3580	30.0
	Squaw Ck nr Glen Rose, TX	07-26-00	0817	3.6	3540	27.0
08093100	Brazos Rv nr Aquilla, TX	10-06-99	1215	27	1400	18.0
	Brazos Rv nr Aquilla, TX	11-18-99	0900	27	1400	17.5
	Brazos Rv nr Aquilla, TX	01-25-00	1227	24	1430	11.7
	Brazos Rv nr Aquilla, TX	03-08-00	1000	24	1420	18.5
	Brazos Rv nr Aquilla, TX	05-16-00	1300	33	1460	26.0
	Brazos Rv nr Aquilla, TX	06-22-00	1150	53	1410	26.0
08093500	Aquilla Ck nr Aquilla, TX	10-04-99	1715	1.6	--	25.0
	Aquilla Ck nr Aquilla, TX	11-18-99	1125	2.2	426	16.5
	Aquilla Ck nr Aquilla, TX	01-25-00	1457	1.6	568	10.2
	Aquilla Ck nr Aquilla, TX	03-08-00	1400	1.9	548	19.5
	Aquilla Ck nr Aquilla, TX	05-16-00	1036	2.2	350	23.0
	Aquilla Ck nr Aquilla, TX	06-04-00	1630	6160	400	25.0
08094800	N Bosque Rv at Hico, TX	03-07-00	1030	1.3	896	17.5
08095000	N Bosque Rv nr Clifton, TX	01-03-00	1230	2.4	508	16.0
	N Bosque Rv nr Clifton, TX	03-31-00	1006	3.2	338	20.5
	N Bosque Rv nr Clifton, TX	05-15-00	1334	.93	422	28.0
	N Bosque Rv nr Clifton, TX	06-05-00	1345	523	175	25.7
	N Bosque Rv nr Clifton, TX	06-14-00	1205	38	300	28.5
	N Bosque Rv nr Clifton, TX	07-13-00	0912	2.7	580	12.1
08095200	N Bosque Rv at Valley Mills, TX	04-16-00	1218	4.8	413	35.2
	N Bosque Rv at Valley Mills, TX	04-25-00	1310	5.7	469	28.0
	N Bosque Rv at Valley Mills, TX	07-13-00	1000	4.6	670	11.2
08095300	Middle Bosque Rv nr McGregor, TX	04-05-00	0835	13	845	18.5
08096500	Brazos Rv at Waco, TX	04-06-00	1410	28	982	22.4
	Brazos Rv at Waco, TX	04-12-00	1045	3910	766	19.0
08098290	Brazos Rv nr Highbank, TX	04-10-00	1210	82	690	21.0
	Brazos Rv nr Highbank, TX	07-18-00	0940	398	1030	30.5
08099300	Sabana Rv nr De Leon, TX	06-04-00	1255	233	159	23.0
	Sabana Rv nr De Leon, TX	06-08-00	1125	1.7	362	22.0
08100500	Leon Rv at Gatesville, TX	10-08-99	0745	1.9	869	20.0
	Leon Rv at Gatesville, TX	11-04-99	1243	2.1	791	11.5
	Leon Rv at Gatesville, TX	02-11-00	1007	10	724	14.0
	Leon Rv at Gatesville, TX	04-12-00	0942	118	545	17.9
	Leon Rv at Gatesville, TX	04-15-00	1300	248	900	18.7
	Leon Rv at Gatesville, TX	05-17-00	1108	2.1	700	24.4
	Leon Rv at Gatesville, TX	06-05-00	1540	921	300	26.2

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08101000	Cowhouse Ck at Pidcoke, TX	02-08-00	1300	.06	557	--
	Cowhouse Ck at Pidcoke, TX	04-05-00	1301	.52	468	23.5
	Cowhouse Ck at Pidcoke, TX	04-12-00	0833	344	190	16.0
	Cowhouse Ck at Pidcoke, TX	04-12-00	1202	162	213	16.5
	Cowhouse Ck at Pidcoke, TX	04-12-00	1400	111	269	16.9
08102500	Leon Rv nr Belton, TX	11-04-99	0955	30	428	18.0
	Leon Rv nr Belton, TX	02-03-00	1257	29	432	--
	Leon Rv nr Belton, TX	07-11-00	1323	2.7	403	26.2
08103800	Lampasas Rv nr Kempner, TX	10-07-99	1604	18	1920	25.5
	Lampasas Rv nr Kempner, TX	12-27-99	0943	22	2110	--
	Lampasas Rv nr Kempner, TX	02-08-00	1052	18	2150	--
	Lampasas Rv nr Kempner, TX	04-12-00	0945	3500	154	15.0
	Lampasas Rv nr Kempner, TX	04-12-00	1219	1840	159	15.5
	Lampasas Rv nr Kempner, TX	04-12-00	1545	1040	237	16.7
	Lampasas Rv nr Kempner, TX	05-16-00	1255	15	2300	29.3
08104100	Lampasas Rv nr Belton, TX	10-04-99	0949	8.6	518	21.5
	Lampasas Rv nr Belton, TX	02-10-00	0920	5.6	534	14.0
08104500	Little Rv nr Little Rv, TX	12-22-99	1330	94	585	13.0
	Little Rv nr Little Rv, TX	01-08-00	1242	434	366	--
	Little Rv nr Little Rv, TX	02-03-00	0955	105	379	--
	Little Rv nr Little Rv, TX	05-16-00	1222	75	512	26.2
08104700	N Fk San Gabriel Rv nr Georgetown, TX	10-08-99	1142	6.2	364	22.5
	N Fk San Gabriel Rv nr Georgetown, TX	11-03-99	1222	4.9	371	17.5
	N Fk San Gabriel Rv nr Georgetown, TX	12-20-99	0959	4.3	376	10.0
	N Fk San Gabriel Rv nr Georgetown, TX	01-10-00	1159	.41	415	--
	N Fk San Gabriel Rv nr Georgetown, TX	03-27-00	1146	3.7	354	24.0
08104900	S Fk San Gabriel Rv at Georgetown, TX	10-08-99	1330	.08	491	21.5
	S Fk San Gabriel Rv at Georgetown, TX	11-03-99	0950	.67	487	10.5
	S Fk San Gabriel Rv at Georgetown, TX	02-02-00	1250	1.6	488	--
	S Fk San Gabriel Rv at Georgetown, TX	03-27-00	0918	2.2	458	22.0
	S Fk San Gabriel Rv at Georgetown, TX	05-15-00	1250	3.8	406	26.0
	S Fk San Gabriel Rv at Georgetown, TX	07-27-00	1043	.13	452	27.1
08105100	Berry Ck nr Georgetown, TX	02-02-00	0950	.22	478	9.0
	Berry Ck nr Georgetown, TX	05-17-00	1107	.09	474	25.0
08105700	San Gabriel Rv at Laneport, TX	10-01-99	1052	7.0	411	26.0
	San Gabriel Rv at Laneport, TX	05-03-00	1043	377	398	23.0
	San Gabriel Rv at Laneport, TX	05-16-00	1014	7.0	450	26.0
	San Gabriel Rv at Laneport, TX	08-29-00	1050	40	378	22.3
08106350	Little Rv nr Rockdale, TX	10-01-99	1305	100	645	26.0
	Little Rv nr Rockdale, TX	11-15-99	1150	66	697	19.0
	Little Rv nr Rockdale, TX	03-19-00	1100	405	755	15.0
	Little Rv nr Rockdale, TX	04-04-00	1047	1100	480	18.3
	Little Rv nr Rockdale, TX	04-04-00	1555	910	464	18.5
	Little Rv nr Rockdale, TX	07-07-00	1053	65	622	30.6
	Little Rv nr Rockdale, TX	08-11-00	1045	42	712	24.0
08106500	Little Rv at Cameron, TX	11-15-99	1255	74	653	18.0
	Little Rv at Cameron, TX	01-08-00	1035	341	634	--
	Little Rv at Cameron, TX	02-28-00	1006	1320	802	--
	Little Rv at Cameron, TX	04-13-00	1215	4930	292	18.0
	Little Rv at Cameron, TX	04-15-00	0955	590	388	17.5

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08106500	Little Rv at Cameron, TX	04-18-00	1043	--	457	23.4
	Little Rv at Cameron, TX	06-02-00	0949	101	654	29.9
	Little Rv at Cameron, TX	07-17-00	1505	45	470	33.2
	Little Rv at Cameron, TX	08-31-00	1340	175	580	32.0
	Little Rv at Cameron, TX	09-06-00	1014	26	590	30.0
08108700	Brazos Rv at SH 21 nr Bryan, TX	10-04-99	1203	167	940	25.5
	Brazos Rv at SH 21 nr Bryan, TX	11-17-99	0830	173	900	19.5
	Brazos Rv at SH 21 nr Bryan, TX	06-06-00	1120	16400	372	28.0
	Brazos Rv at SH 21 nr Bryan, TX	06-16-00	1100	2900	262	29.7
08109700	Middle Yegua Ck nr Dime Box, TX	10-05-99	0855	7.3	733	21.0
	Middle Yegua Ck nr Dime Box, TX	01-06-00	1300	17	796	9.5
	Middle Yegua Ck nr Dime Box, TX	03-01-00	1240	16	651	19.5
	Middle Yegua Ck nr Dime Box, TX	03-18-00	0940	58	875	14.0
	Middle Yegua Ck nr Dime Box, TX	05-03-00	1010	141	660	23.0
	Middle Yegua Ck nr Dime Box, TX	05-05-00	1050	230	319	24.5
	Middle Yegua Ck nr Dime Box, TX	08-09-00	1100	5.0	802	27.3
08109800	E Yegua Ck nr Dime Box, TX	10-05-99	1020	24	581	21.0
	E Yegua Ck nr Dime Box, TX	11-17-99	1230	16	513	19.5
	E Yegua Ck nr Dime Box, TX	03-01-00	1025	23	518	17.5
	E Yegua Ck nr Dime Box, TX	03-18-00	1040	74	490	14.0
	E Yegua Ck nr Dime Box, TX	05-03-00	1221	432	205	21.0
	E Yegua Ck nr Dime Box, TX	05-04-00	1040	1800	182	23.5
08110100	Davidson Ck nr Lyons, TX	01-06-00	1015	.25	853	12.0
	Davidson Ck nr Lyons, TX	02-25-00	1305	1.4	619	21.5
	Davidson Ck nr Lyons, TX	03-18-00	1100	590	134	13.5
	Davidson Ck nr Lyons, TX	03-19-00	1050	69	180	14.5
	Davidson Ck nr Lyons, TX	03-20-00	1100	25	307	16.0
	Davidson Ck nr Lyons, TX	03-27-00	1145	5.7	363	23.0
08110325	Navasota Rv abv Groesbeck, TX	04-19-00	1157	1.2	365	22.0
	Navasota Rv abv Groesbeck, TX	05-23-00	1114	32	403	26.0
	Navasota Rv abv Groesbeck, TX	06-05-00	--	3430	265	--
	Navasota Rv abv Groesbeck, TX	06-14-00	0956	479	146	27.7
08110430	Big Ck nr Freestone, TX	01-04-00	1240	.39	266	12.0
	Big Ck nr Freestone, TX	02-16-00	1120	1.5	321	19.0
	Big Ck nr Freestone, TX	03-27-00	1055	36	485	21.5
	Big Ck nr Freestone, TX	04-06-00	1045	9.2	440	17.5
	Big Ck nr Freestone, TX	05-23-00	1310	3.2	441	26.2
08110500	Navasota Rv nr Easterly, TX	10-04-99	--	7.9	264	24.5
	Navasota Rv nr Easterly, TX	03-18-00	1440	234	205	14.0
	Navasota Rv nr Easterly, TX	04-10-00	1525	19	323	20.6
	Navasota Rv nr Easterly, TX	06-14-00	1300	3030	207	27.5
08110800	Navasota Rv at Old Spanish Rd nr Bryan, TX	10-04-99	1000	10	281	21.0
	Navasota Rv at Old Spanish Rd nr Bryan, TX	10-27-99	1105	47	214	17.0
	Navasota Rv at Old Spanish Rd nr Bryan, TX	01-05-00	0800	19	314	8.0
	Navasota Rv at Old Spanish Rd nr Bryan, TX	02-25-00	0952	44	285	18.5
	Navasota Rv at Old Spanish Rd nr Bryan, TX	03-18-00	1230	472	231	18.5
	Navasota Rv at Old Spanish Rd nr Bryan, TX	04-11-00	0904	62	267	18.8
	Navasota Rv at Old Spanish Rd nr Bryan, TX	06-15-00	1005	1520	215	28.0
	Navasota Rv at Old Spanish Rd nr Bryan, TX	07-26-00	0935	13	383	28.6
	Navasota Rv at Old Spanish Rd nr Bryan, TX	08-02-00	1100	9.0	387	29.0
	Navasota Rv at Old Spanish Rd nr Bryan, TX	08-30-00	1107	36	403	29.6
	Navasota Rv at Old Spanish Rd nr Bryan, TX	09-11-00	1130	6.0	281	31.1

MULTIPLE STATION ANALYSES

STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
08111500	Brazos Rv nr Hempstead, TX	02-15-00	1111	438	738	21.4
	Brazos Rv nr Hempstead, TX	07-13-00	1140	733	802	31.5
	Brazos Rv nr Hempstead, TX	09-07-00	1250	1150	1060	32.3
08111700	Mill Ck nr Bellville, TX	06-01-00	1555	14	469	31.3
	Mill Ck nr Bellville, TX	07-13-00	1415	3.5	434	32.7
	Mill Ck nr Bellville, TX	09-07-00	1535	.70	377	32.5
08114000	Brazos Rv at Richmond, TX	07-25-00	1410	715	740	33.4
	Brazos Rv at Richmond, TX	09-06-00	1242	660	1170	30.5
08115000	Big Ck nr Needville, TX	03-28-00	1326	1.5	907	24.4
	Big Ck nr Needville, TX	04-13-00	0940	176	135	18.0
	Big Ck nr Needville, TX	06-06-00	1109	2.1	880	26.1
	Big Ck nr Needville, TX	08-25-00	1305	.14	843	30.5
08116650	Brazos Rv nr Rosharon, TX	07-14-00	0908	212	733	28.7
08117500	San Bernard Rv nr Boling, TX	03-28-00	1022	13	719	22.9
	San Bernard Rv nr Boling, TX	06-06-00	0937	104	455	25.6
	San Bernard Rv nr Boling, TX	07-19-00	0930	105	570	28.4
	San Bernard Rv nr Boling, TX	08-29-00	1631	65	600	29.0

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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 2000

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	1967-2000	10-06-99 11-17-99 05-03-00 08-17-00 09-12-00 09-20-00	9.57 14.8 10.5 5.18 0.49 9.51
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, 1990-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	6.76 0.67 4.42 1.76 2.48
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, 1990-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	0.54 0.82 1.32 0.00 0.00
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, 1990-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	14.4 8.20 17.1 2.87 2.38
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, 1990-2000	12-08-99 05-06-00 06-30-00 07-28-00 09-08-00	0.00 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, 1990-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	0.00 0.00 0.10 0.00 0.00
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, 1990-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	0.52 1.72 4.40 0.00 0.00
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, 1991-2000	12-08-99 03-06-00 06-30-00 07-28-00 09-08-00	16.9 12.8 17.7 5.70 0.13

✞ Operated as a continuous-record station.

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 2000

Station name and number	Location	Period of record	Water Year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		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.	1984-2000	05-20-00	*3.40	--	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.	1986-2000	05-20-00	*17.83	--	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.	1984-2000	05-20-00	28.32	1,480	10-18-94	31.81	4,070
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 1979-2000	05-21-00	*64.15	--	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.	1986-2000	04-02-00	13.28	--	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 Greek. Drainage area is 32.3 mi^2.	1974-2000	04-20-00	*106.93	--	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.	1974-2000	06-03-00	*99.93	--	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.	1984-2000	04-02-00	39.76	2,610	09-11-98	48.54	13,300
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.	1979-2000	05-19-00	*32.73	--	03-04-92	43.17	--
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.	1977-2000	04-12-00	10.37	--	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, 1975-2000	04-12-00	*76.18	--	04-14-66	83.55	--

See footnote at end of table.

Annual maximum stage and (or) discharge during water year 2000--Continued

Station name and number	Location	Period of record	Water Year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft^3/s)	Date	Gage height (ft)	Dis-charge (ft^3/s)
	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.	1977-2000	04-12-00	*52.70	3,750	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.	1965-2000	04-02-00	*112.15	484	02-21-69 10-25-84	*118.04 *116.85	508 2,110
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.	1991-2000	05-20-00	*12.90	--	10-17-94	*17.53	--

* Elevation, in feet.

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Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table:

Discharge measurements made at miscellaneous sites during water year 2000

Station number	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Dis-charge (ft^3/s)
		Brazos River Basin				
Cat Claw Creek at Abilene, TX 08083420	Clear Fork Brazos River	Lat 32°28’31”, long 99°44’56”, Taylor County, in Sears Park 320 ft downstream from bridge on Ambler Street in Abilene, and 1.8 mi upstream from mouth.	13.0	1971-79✞, 1993-2000	10-06-99 11-17-99 03-02-00 05-02-00 08-17-00 09-20-00	0 0 20.7 0 0 0
Cedar Creek at I-20 at Abilene, TX 08083480	Clear Fork Brazos River	Lat 32°29’58”, long 99°42’57”, Taylor County, on Cedar Creek bridge on IH-20 service road in Abilene.	136	1993-2000	10-06-99 11-17-99 03-02-00 05-02-00 08-17-00	0 0 87.1 0 0 0
Leon River at North Fort Hood, TX 08100600	Brazos River	Lat 31°23’01”, long 97°42’06”, Coryell County, on downstream side of State Highway 36 in North Fort Hood, and 9.8 mi downstream from City of Gatesville Sewage Disposal Plant.	2,416	1990-2000	02-04-00 04-25-00	6.91 15.8

✞ Operated as a continuous-record station.

INDEX

Page

Addicks Reservoir near Addicks 136-137
Aquilla Creek near Aquilla 348-349
Aquilla Lake above Aquilla 346-347
Attwater Prairie Chicken National Wildlife Refuge
near Eagle Lake 474-475

Barker Reservoir near Addicks 130-131
Bear Branch at Research Forest Blvd., The Woodlands 54-57
Bear Creek near Barker 132-133
Belton Lake near Belton 402-403
Berry Bayou at Forest Oaks Street, Houston 184-185
Berry Creek, at State Highway 971 near Georgetown 485
near Georgetown 422-423
upstream from Interstate Highway 35 near Georgetown 485
Big Creek, near Freestone 450-451
near Needville 466-467
Big Sandy Creek above Breckenridge 268-273
Bosque River, near Waco 382-383
Brays Bayou at Alief 486
at Gessner Drive, Houston 487
at Houston 178-179
Brazos River, at Richmond 462-465
at Seymour 234-235
at State Highway 21 near Bryan 434-435
at Waco 384-385
at Whitney Dam near Whitney 342-343
near Aquilla 344-345
near Dennis 302-303
near Glen Rose 310-313
near Graford 290-291
near Hempstead 458-459
near Highbank 386-387
near Palo Pinto 292-293
near Rosharon 468-469
near South Bend 284-285
Brazos River Basin, miscellaneous partial-record stations in 488
gaging-station records in 216-469
low-flow partial-record stations in 485
Brickhouse Gully at Costa Rica Sreet, Houston 154-155
Buffalo Bayou, at Houston 144-151
at McKee Street, Houston 160-167
at Piney Point 142-143
at Turning Basin, Houston 168-175
at West Belt Drive, Houston 140-141
near Addicks 138-139
near Fulshear 486
near Katy 128-129

California Creek near Stamford 254-255
Caney Creek near Splendora 108-109
Carpenters Bayou at IH-10 near Channelview 487
Cat Claw Creek at Abilene 488
Cedar Bayou Basin, crest-stage partial-record stations in 486
Cedar Bayou, near Baytown 486
near Crosby 30-31
Cedar Creek at I-20 at Abilene 479
Chocolate Bayou near Alvin 212-213
Clear Creek near Friendswood 200-201

Page

Clear Fork Brazos River, at Fort Griffin 256-257
at Nugent 250-251
near Roby 242-243
Coastal Basin, gaging-station records in 202-203
Cole Creek at Deihl Road, Houston 152-153
Cowhouse Creek at Pidcoke 400-401
Crest-stage partial-record stations 486-487
Cypress Creek at Grant Road near Cypress 94-95
at House and Hahl Road near Cypress 90-91
at Katy-Hockley Road near Hockley 88-89
at Sharp Road near Hockley 486
at Stuebner-Airline Road near Westfield 96-97
near Westfield 98-101

Davidson Creek near Lyons 442-443
Deadman Creek near Nugent 485
Definition of terms 16
Discharge, at partial-record stations 485-488
Double Mountain Fork Brazos River, at Justiceburg 216-221
near Aspermont 224-227
Dry Berry Creek near Georgetown 485

East Fork San Jacinto River, near New Caney 104-107
near Cleveland 102-103
East Yegua Creek near Dime Box 438-439

Fort Phantom Hill Reservoir near Nugent 248-249

Garners Bayou near Humble 194-195
Goose Creek at Baytown 486
Granger Lake near Granger 424-425
Greens Bayou, at Cutten Road near Houston 487
at Ley Road, Houston 198-199
near U.S. Highway 75 near Houston 190-191
near Houston 192-193

Halls Bayou at Houston 196-197
Highland Bayou Basin, gaging-station records in 204-211
Highland Bayou, Diversion Channel near Hitchcock 204-205
near Hitchcock 206-207
Hog Creek near Crawford 360-361
Hubbard Creek below Albany 258-263
Hubbard Creek Reservoir near Breckenridge 274-279
Hunting Bayou at Interstate Highway 610, Houston 188-189

Keegans Bayou, at Keegan Road near Houston 486
at Roark Road near Houston 176-177

Lake Abilene near Buffalo Gap 246-247
Lake Alan Henry Reservoir near Justiceburg 222-223
Lake Cisco near Cisco 264-267
Lake Conroe near Conroe 32-39
Lake Daniel near Breckenridge 280-283
Lake Georgetown near Georgetown 416-417
Lake Graham near Graham 286-287
Lake Granbury near Granbury 304-305
Lake Houston near Sheldon 114-125

Page

Lake Limestone near Marquez 452-453
Lake Mexia near Mexia 444-447
Lake Mineral Wells near Mineral Wells 298-301
Lake Palo Pinto near Santo 294-299
Lake Pat Cleburne near Cleburne 320-321
Lake Stamford near Haskell 252-253
Lake Sweetwater near Sweetwater 244-245
Lake Whitney near Whitney 324-341
LaMarque Levee Pump Station near LaMarque 208-211
Lampasas River, near Belton 412-413
near Kempner 406-407
Langham Creek, at West Little York Road near Addicks 134-135
near Addicks 486
Leon Reservoir near Ranger 388-389
Leon River, at Gatesville 398-399
at North Fort Hood 488
near Belton 404-405
near De Leon 390-391
near Hamilton 396-397
Little Cypress Creek near Cypress 92-93
Little River, at Cameron 430-431
near Little River 414-412
near Rockdale 428-429
Little Whiteoak Bayou at Trimble Street at Houston 486
Low-flow partial-record stations 485
Luce Bayou above Lake Houston near Huffman 112-113

Middle Bosque River near McGregor 358-359
Mill Creek near Bellville 460-461
Middle Yegua Creek near Dime Box 436-437
Millers Creek near Munday 238-239
Millers Creek Reservoir near Bomarton 240-241
Miscellaneous partial-record stations 488
Miscellaneous water-quality data 476-483
Moses Lake-Galveston Bay near Texas City 202-203

Navasota River, above Groesbeck 448-449
at OSR near Bryan 456-457
near Easterly 454-455
Nolan River at Blum 322-323
North Bosque River, at Hico 350-351
at Valley Mills 354-357
near Clifton 352-353
North Fork San Gabriel River, near Georgetown 418-419
upstream from State Highway 418 at Georgetown 485

Page

Paluxy River at Glen Rose 314-315
Panther Branch, at Gosling Rd, The Woodlands 58-75
near Spring 76-77
Partial-record stations, crest-stage 486-487
low-flow 485
miscellaneous 488
Peach Creek at Splendora 110-111
Possum Kingdom Lake near Graford 288-289
Proctor Lake near Proctor 394-395

Sabana River near De Leon 392-393
Salt Fork Brazos River near Aspermont 230-231
San Bernard River near Boling 472-473
San Gabriel River, at Georgetown 485
at Laneport 426-427
near Weir 485
San Jacinto River near Sheldon 126-127
San Jacinto River Basin,
crest-stage partial-record stations in 486-487
gaging-station records in 32-199
Sims Bayou, at Hiram Clarke Street, Houston 180-181
at Houston 182-183
Somerville Lake near Somerville 440-441
South Fork Rocky Creek near Briggs 408-409
South Fork San Gabriel River at Georgetown 420-421
upstream from State Highway 418 at Georgetown 485
South Mayde Creek near Addicks 486
Spring Creek, near Spring 78-87
near Tomball 46-53
Squaw Creek near Glen Rose 318-319
Squaw Creek Reservoir near Glen Rose 316-317
Stillhouse Hollow Lake near Belton 410-411

Vince Bayou at Pasadena 186-187

Waco Lake near Waco 362-381
West Fork San Jacinto River,
above Lake Houston near Porter 44-45
below Lake Conroe near Conroe 40-41
near Conroe 42-43
White River Reservoir near Spur 228-229
Whiteoak Bayou, at Alabonson Road at Houston 486
at Houston 156-157
at Main Street, Houston 158-159
Willow Creek near Tomball 486