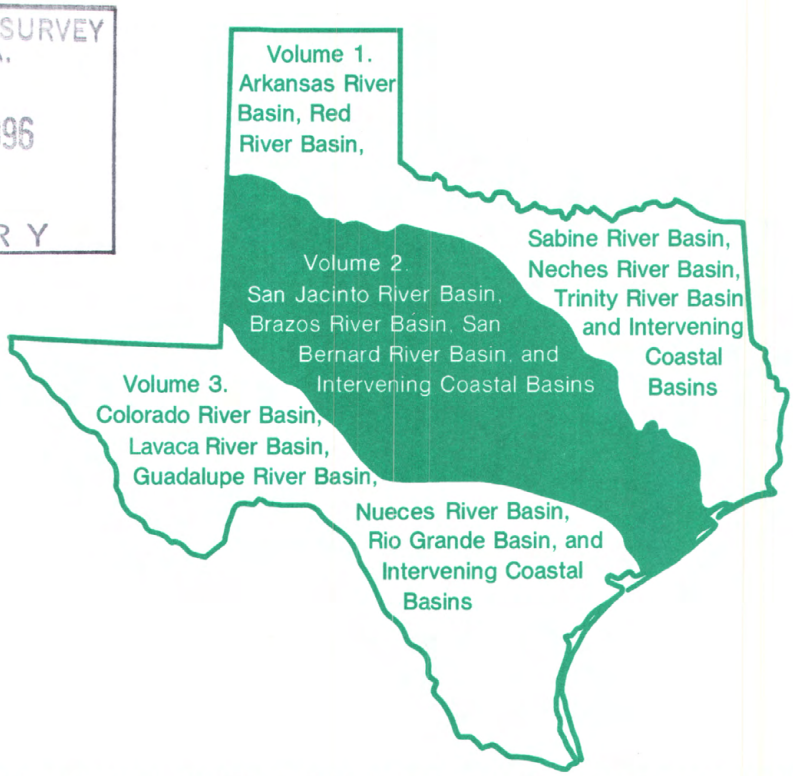
)00)
-a 3
exas
295
2

Water Resources Data Texas Water Year 1995

Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening Coastal Basins

U.S. GEOLOGICAL SURVEY
RESTON, VA.
JUL 30 1996
SR
LIBRARY



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT TX-95-2
Prepared in cooperation with the State of Texas
and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1995

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

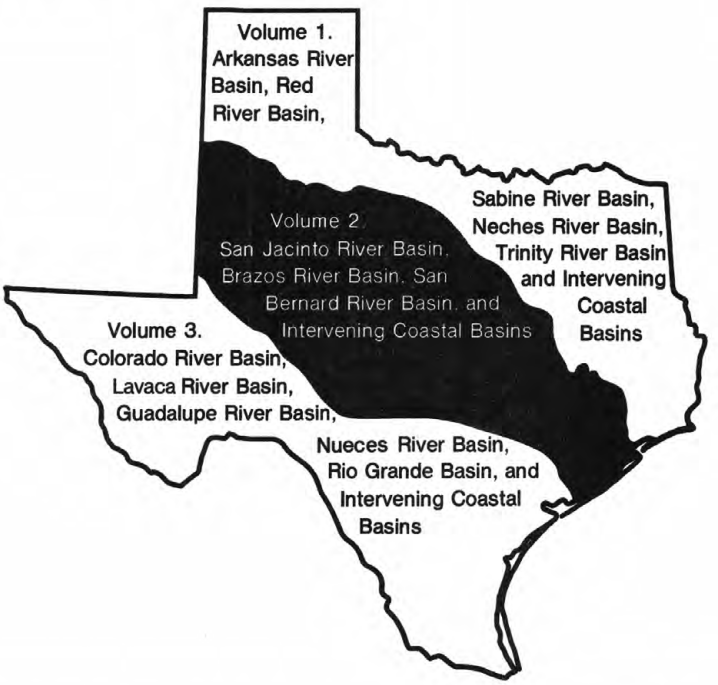
SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Water Resources Data Texas Water Year 1995

Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening Coastal Basins

by S.C. Gandara, W.J. Gibbons, F.L. Andrews, J.C. Fisher, B.A. Hinds, and R.E. Jones



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT TX-95-2
Prepared in cooperation with the State of Texas
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Gordon P. Eaton, Director

For additional information write to:
District Chief, Water Resources Division
U.S. Geological Survey
8011 Cameron Rd., Bldg. 1
Austin, Texas 78754-3898

1996

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 4 volumes:

Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin, and Intervening Coastal Basins

Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin, and Intervening Coastal Basins

Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin, and Intervening Coastal Basins

Volume 4. 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:

Stanley M. Baldys
Mike E. Dorsey
Mark C. Kasmarek
William H. Martin
Addis M. Miller III
Jimmy G. Pond
George B. Ozuna
Roberto Perez
J. Ken VanZandt

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

Houston Subdistrict Office

Dexter W. Brown
Dana L. Barbie
J. Pat Bruchmiller
Mike R. Burnich
Al Campodonico
Laura S. Coplin
Jeff W. East
Chandra Fields
Lee B. Goldstein
Mark A. Hanson
Jim S. Hutchison
Patrick O. Keefe
Fred Liscum
Edna M. Paul
Cervando S. Ramirez
Horacio X. Santos
Alberta G. Swanson

Fort Worth Subdistrict Office

Jack D. Benton
Ben J. Carr
Martin J. Danz
Judith H. Donohue
Bruce R. Goddard
Vernon L. Hastings
Marilyn J. Kuhn
Bradley L. Mansfield
Ralph H. Ollman
Darryl G. Pinion
Timothy H. Raines
Glenn A. Rivers
Jeffrey T. Sandlin
Clyde T. Schoultz
J.M. Taylor
David V. Tudor
Charles M. Wood

San Antonio Subdistrict Offiice

James M. Briers
Allan K. Clark
Robert J. Ferris
Allen L. Furlow
Jon R. Gilhousen
Ken C. Grimm
C.A. Hartmann, Jr.
Stephanie Lindstrom
Greg Mosier
Olga H. Munoz
Joan T. Patton
Jorge O. Pena
Brian L. Petri
Richard N. Slattery
John A. Tomlinson
John F. Wojcik

Austin Field Office

Searcy M. Jacobs
Milton M. Miller
C.E. Ranzau
Venezia Shearer
Keith R. Snider
Milton W. Sunvison
Gene Taylor
K. Craig Weiss

Wichita Falls Field Office

Paul Bennett
W.C. Damschen
G. Dan McElhany
Anita M. Ross

San Angelo Field Office

Henry Jacques, Jr.
Lawanna M. Kiser
James B. Schiller
Tim E. Teagarden

This report was prepared in cooperation with the State of Texas and other agencies under the supervision of Richard O. Hawkinson, District Chief.

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	February 1996	Annual--Oct. 1, 1994 to Sept. 30, 1995

4. TITLE AND SUBTITLE

Water Resources Data--Texas, Water Year 1995, Volume 2
San Jacinto River, Brazos River, San Bernard River Basins
and Intervening Coastal Basins

5. FUNDING NUMBERS

6. AUTHOR(S)

S.C. Gandara, W.J. Gibbons, F.L. Andrews, J.C. Fisher, B.A. Hinds
and R.E. Jones

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

U.S. Geological Survey, Water Resources Division
Texas District
8011 Cameron Road, Bldg. 1
Austin, TX 78754-3898

8. PERFORMING ORGANIZATION REPORT NUMBER

USGS-WDR-TX-95-2

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

U.S. Geological Survey, Water Resources Division
Texas District
8011 Cameron Road, Bldg. 1
Austin, TX 78754-3898

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

USGS-WDR-TX-95-2

11. SUPPLEMENTARY NOTES

Prepared in cooperation with Federal, State, and local agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT

No restriction on distribution.
This report may be purchased from
National Technical Information Service
Springfield, VA 22161

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 1995 water year for Texas are presented in four volumes, and consist of records of stage, discharge, and water quality of streams and canals; stage, contents, and water-quality of lakes and reservoirs; and water levels and water quality of ground-water wells. Volume 2 contains records for water discharge at 78 gaging stations; stage only at 20 gaging stations; stage and contents at 21 lakes and reservoirs; water quality at 43 gaging stations; and data for 32 partial-record and 18 flood-hydrograph partial-record stations. Also included are lists of discontinued surface-water discharge or stage-only stations and discontinued surface-water-quality stations; crest-stage and flood-hydrograph partial-record stations, reconnaissance partial-record stations, and low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. Records for a few pertinent stations in the bordering States also are included. 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.

14. SUBJECT TERMS

*Texas, *Hydrologic data, *Surface water, *Water quality, Flow rate, Gaging Stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water Temperature, Sampling sites.

15. NUMBER OF PAGES

385

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified	Unclassified	

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	xi
Introduction	1
Cooperation	1
Hydrologic conditions	2
Streamflow	2
Water quality	5
Special networks and programs	6
Explanation of the records	6
Station identification numbers	6
Downstream order numbering	6
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	9
Summary statistics	9
Identifying estimated daily discharge	11
Accuracy of the records	11
Other records available	11
Records of surface-water quality	11
Classification of records	11
Arrangement of records	11
On-site measurements and sample collection	12
Water temperature	12
Sediment	12
Laboratory measurements	13
Data presentation	13
Remark codes	14
Access to WATSTORE data	14
Definition of terms	14
Publications of techniques of water-resources investigations	21
Gaging-station records	25
Discharge at partial-record stations and miscellaneous sites	365
Low-flow partial-record stations	365
Crest-stage partial-record stations	367
Miscellaneous partial-record stations	369
Index	371

ILLUSTRATIONS

Figure	1. Area of Texas covered by volume 2 and location of selected streamflow and water-quality stations in volume 2.	3
	2. Monthly mean discharges at four long-term hydrologic index stations during 1995 water year and median of the monthly mean discharges for 1961-90 water years.	4

TABLES

Table	1. Streamflow at six selected stations	5
	2. Comparison of records of discharge-weighted-average concentrations of dissolved solids for the 1995 and 1991-95 water years	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		
SAN JACINTO RIVER BASIN		
West Fork San Jacinto River (head of San Jacinto River):		
Lake Conroe near Conroe (e) (c)	08067600	25
West Fork San Jacinto River below Lake Conroe near Conroe (d)	08067650	32
West Fork San Jacinto River near Conroe (d) (c) (b) (s)	08068000	33
West Fork San Jacinto River above Lake Houston near Porter (d) (c) (b)	08068090	34
Spring Creek at Spring (d) (c) (b)	08068520	36
Cypress Creek at Katy-Hockley Road near Hockley (d)	08068720	38
Cypress Creek at House and Hahl Road near Cypress (d)	08068740	39
Little Cypress Creek near Cypress (d)	08068780	40
Cypress Creek at Grant Road near Cypress (d)	08068800	41
Cypress Creek at Stuebner Airline Road near Westfield (d)	08068900	42
Cypress Creek near Westfield (d) (c) (b)	08069000	43
East Fork San Jacinto River near Cleveland (d)	08070000	45
East Fork San Jacinto River near New Caney (d) (c) (b) (t)	08070200	46
Caney Creek near Splendora (d) (c) (b)	08070500	53
San Jacinto River:		
Lake Houston:		
Luce Bayou above Lake Houston near Huffman (d) (c) (b)	08071280	56
Lake Houston near Sheldon (e) (c) (b) (t)	08072000	58
San Jacinto River near Sheldon (e)	08072050	70
Buffalo Bayou near Katy (d)	08072300	72
Barker Reservoir near Addicks (e)	08072500	73
South Mayde Creek:		
Bear Creek near Barker (d)	08072730	74
Langham Creek at West Little York Road near Addicks (d)	08072760	75
Addicks Reservoir near Addicks (e)	08073000	76
Buffalo Bayou near Addicks (d)	08073500	77
Buffalo Bayou at West Belt Drive, Houston (d) (c) (b)	08073600	78
Buffalo Bayou at Piney Point (d)	08073700	81
Buffalo Bayou at Houston (d) (c) (t)	08074000	82
Cole Creek at Deihl Road, Houston (d)	08074150	88
Brickhouse Gulley at Costa Rica Street, Houston (d)	08074250	89
Whiteoak Bayou at Houston (d) (c) (b)	08074500	90
Whiteoak Bayou at Main Street, Houston (e) (c) (t)	08074598	93
Buffalo Bayou at McKee Street, Houston (e) (c) (t)	08074610	100
Buffalo Bayou at Turning Basin, Houston (e) (c) (t)	08074710	107
Keegans Bayou at Roark Road near Houston (d)	08074800	114
Brays Bayou at Houston (d) (c) (b)	08075000	115
Sims Bayou at Hiram Clarke Street, Houston (d)	08075400	119
Sims Bayou at Houston (d) (c) (b) (t)	08075500	120
Berry Bayou at Forest Oaks Street, Houston (e)	08075650	127
Vince Bayou at Pasadena (d)	08075730	129
Hunting Bayou at Interstate Highway 610 at Houston (d) (c) (b)	08075770	130
Greens Bayou at U.S. Highway 75 near Houston (d)	08075900	133
Greens Bayou near Houston (d) (c) (b)	08076000	134
Garners Bayou near Humble (d)	08076180	136
Halls Bayou at Houston (d)	08076500	137
Greens Bayou at Ley Road, Houston (d)	08076700	138
CLEAR CREEK BASIN		
Clear Creek at Friendswood (d)	08077540	139
COASTAL BASIN		
Moses Lake-Galveston Bay near Texas City (e)	08077650	140
HIGHLAND BAYOU BASIN		
Highland Bayou Diversion Channel:		
LaMarque Levee Pump Station near LaMarque (e)	08077740	142
CHOCOLATE BAYOU BASIN		
Chocolate Bayou near Alvin (d)	08078000	145

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
BRAZOS RIVER BASIN		
Double Mountain Fork Brazos River (head of Brazos River):		
Double Mountain Fork Brazos River at Justiceburg (d) (c) (t)	08079600	147
Double Mountain Fork Brazos River near Aspermont (d) (c) (t)	08080500	151
Salt Fork Brazos River near Aspermont (d)	08082000	154
Brazos River:		
Brazos River at Seymour (d) (c) (t)	08082500	156
Millers Creek near Munday (d)	08082700	159
Clear Fork Brazos River near Roby (d)	08083100	160
Clear Fork Brazos River at Nugent (d)	08084000	161
Paint Creek:		
California Creek near Stamford (d)	08084800	162
Clear Fork Brazos River at Fort Griffin (d)	08085500	163
Hubbard Creek below Albany (d) (c) (t)	08086212	164
Big Sandy Creek above Breckenridge (d) (c) (t)	08086290	171
Hubbard Creek Reservoir near Breckenridge (e) (c) (t)	08086400	178
Brazos River near South Bend (d)	08088000	190
Salt Creek:		
Lake Graham near Graham (e)	08088400	192
Possum Kingdom Lake near Graford (e) (c) (t)	08088500	193
Brazos River near Graford (d)	08088610	203
Brazos River near Palo Pinto (d)	08089000	204
Brazos River near Dennis (d) (c) (t)	08090800	205
Lake Granbury near Granbury (e) (c) (t)	08090900	208
Brazos River near Glen Rose (d)	08091000	217
Paluxy River at Glen Rose (d)	08091500	219
Squaw Creek Reservoir near Glen Rose (e)	08091730	220
Squaw Creek near Glen Rose (d)	08091750	221
Nolan River at Blum (d)	08092000	222
Lake Whitney near Whitney (e)	08092500	223
Brazos River at Whitney Dam near Whitney (c) (t)	08092600	225
Brazos River near Aquilla (d)	08093100	228
Aquilla Lake above Aquilla (e)	08093350	229
Aquilla Creek near Aquilla (d)	08093500	230
North Bosque River at Hico (d) (c) (b)	08094800	232
North Bosque River near Clifton (d)	08095000	233
North Bosque River at Valley Mills (d)	08095200	235
South Bosque River:		
Middle Bosque River near McGregor (d)	08095300	237
Hog Creek near Crawford (d)	08095400	238
Waco Lake near Waco (e)	08095550	239
Brazos River at Waco (d)	08096500	241
Brazos River near Highbank (d) (c) (b) (t) (s)	08098290	243
Leon River near De Leon (d) (c)	08099100	248
Sabana River near De Leon (d) (c)	08099300	251
Proctor Lake near Proctor (e) (c) (b) (t)	08099400	254
Leon River near Hasse (c)	08099500	266
Leon River near Hamilton (d)	08100000	267
Leon River at Gatesville (d)	08100500	269
Leon River at North Fort Hood (c) (b)	08100600	271
Cowhouse Creek at Pidcoke (d) (c) (b)	08101000	273
Belton Lake near Belton (e) (c) (b) (t)	08102000	277
Leon River near Belton (d) (c) (b)	08102500	297
Lampasas River near Kempner (d)	08103800	300
Rocky Creek:		
South Fork Rocky Creek near Briggs (d) (c) (b) (s)	08103900	302
Stillhouse Hollow Lake near Belton (e) (c) (b) (t)	08104050	304
Little River near Little River (d)	08104500	319
San Gabriel River:		
Lake Georgetown near Georgetown (e)	08104650	321
North Fork San Gabriel River near Georgetown (d)	08104700	323
South Fork San Gabriel River at Georgetown (d)	08104900	324

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

	Station number	Page
WESTERN GULF OF MEXICO BASINS--Continued		
BRAZOS RIVER BASIN--Continued		
Brazos River:		
Little River:		
San Gabriel River:		
Berry Creek near Georgetown (d)	08105100	325
Granger Lake near Granger (e)	08105600	326
San Gabriel River at Laneport (d)	08105700	327
Little River near Rockdale (d)	08106350	328
Little River at Cameron (d) (c) (t)	08106500	329
Brazos River at State Highway 21 near Bryan (d)	08108700	333
Brazos River near Bryan (d)	08109000	336
Middle Yegua Creek (head of Yegua Creek) near Dime Box (d)	08109700	338
East Yegua Creek near Dime Box (d)	08109800	340
Somerville Lake near Somerville (e)	08109900	342
Davidson Creek near Lyons (d)	08110100	343
Brazos River at Washington (e)	08110200	344
Navasota River above Groesbeck (d)	08110325	345
Big Creek near Freestone (d)	08110430	346
Lake Limestone near Marquez (e) (c) (t)	08110470	347
Navasota River near Easterly (d)	08110500	352
Navasota River near Bryan (d)	08111000	354
Brazos River near Hempstead (d)	08111500	355
Brazos River at Richmond (d) (c) (b) (t) (s)	08114000	356
Big Creek near Needville (d)	08115000	361
Brazos River near Rosharon (d)	08116650	362
SAN BERNARD RIVER BASIN		
San Bernard River near Boling (d)	08117500	363

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 crest-stage 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)
Lake Conroe Outflow Weir near Conroe (d)	08067610	445	1974, 1977-89
Caney Creek near Dobbin (d)	08067700	40.40	1963-65
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 Stubner Airline Road near Westfield (d)	08068900*	248	1982-87
West Fork San Jacinto River near Humble (d)	08069500	1,741	1929-54
Peach Creek at Spendora (d)	08071000	117	1944-77
San Jacinto River near Huffman (d)	08071500	2,800	1937-53
Cole Creek at Deihl Road at Houston (d)	08074150*	7.50	1964-86
Brickhouse Gully at Costa Rica Street at Houston (d)	08074250*	11.4	1964-81, 1984-85
Buffalo Bayou at Main St., Houston (e)	08074600	469	1962-94
Buffalo Bayou at 69th Street, Houston (e)	08074700	476	1985-86
Clear Creek near Pearland (d)	08077000	38.8	1944-94
Clear Creek near Friendswood (e)	08077600	N/A	1966-94
Highland Bayou at Hitchcock (d)	08077700	N/A	1981-82
Oyster Creek near Angleton (d)	08079000	171	1945-80
North Fork Double Mountain Fork Brazos River near Post (d)	08079575	438	1984-93
North Fork Double Mountain Fork Brazos River at Lubbock (d)	08079500	5,300	1940-49
Double Mountain Fork Brazos River near Rotan (d)	08080000	8,536	1949-51
McDonald Creek near Post (d)	08080540	103	1966-78
Running Water Draw at Plainview (d)	08080700	1,291	1939-53, 1957-78
Duck Creek near Girard (d)	08080950	431	1965-89
Salt Fork Brazos River near Peacock (d)	08081000	4,619	1950-51, 1965-86
Croton Creek near Jayton (d)	08081200	290	1959-86
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
Brazos River near Graham (d)	08083000	16,830	1916-20
Clear Fork Brazos River at Hawley (d)	08083240	1,416	1968-89
Mulberry Creek near Hawley (d)	08083245	205	1968-89
Elm Creek near Abilene (d)	08083300	133	1964-79
Little Elm Creek near Abilene (d)	08083400	39.10	1964-79
Cat Claw Creek at Abilene (d)	08083420	13	1971-79
Elm Creek at Abilene (d)	08083430	422	1980-83
Cedar Creek at Abilene	08083470	119	1971-84
Paint Creek near Haskell (d)	08085000	914	1950-51
Clear Fork Brazos River at Crystall Falls (d)	08086000		1922-29
Hubbard Creek near Sedwick (d)	08086015	128	1964-66
Deep Creek at Moran (d)	08086050	228	1963-75
Hubbard Creek near Albany (d)	08086100	454	1962-75
Salt Prong Hubbard Creek at U.S. 380 near Moran (d)	08086120	61	1964-68
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
Battle Creek near Moran	08086235	108	1967-68
Pecan Creek near Eolian (d)	08086260	26.40	1967-75
Hubbard Creek near Breckenridge (d)	08086500	1,089	1955-86
Clear Fork Brazos River at Eliasville (d)	08087300	5,697	1915-20, 1924-25, 1928-51, 1962-82

Station name	Station number	Drainage area (mi2)	Period of record (water years)
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
Big Cedar Creek near Ivan (d)	08088450	97	1964-89
Palo Pinto Lake near Santo (e)	08090300	461	1964-82
Palo Pinto Creek near Santo (d)	08090500	573	1925, 1951-76
Pat Cleburne Lake near Cleburne (d)	08091900	100	1965-85
Hackberry Creek at Hillsboro (d)	08093250	57.9	1979-92
Cobb Creek near Abbott (d)	08093400	12.40	1966-79
North Bosque River at Stephenville (d)	08093700	95.90	1958-73
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 Speegleville (d)	08095500	386	1924-30
Bosque River near Waco (d)	08095600	1,656	1960-82
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 near Burlington (d)	08098300	23	1963-82
Leon River near Hasse (d)	08099500	1,261	1939-91
Cowhouse Creek near Kileen (d)	08101500	667	1924-25, 1939-42
Nolan Creek at Belton (d)	08102600	112	1974-82
Lampasas River at Youngsport (d)	08104000	1,240	1924-80
Lampasas River near Belton (d)	08104100	1,321	1963-89
Salado Creek below Salado Springs (d)	08104310	N/A	1985-87
San Gabriel River at Georgetown	08105000	405	1924-25, 1934-73, 1984-87
Berry Creek at State Hwy. 971 near Georgetown	08105200	N/A	1985-87
San Gabriel River near Weir (d)	08105300	563	1976-90
San Gabriel River near Circleville (d)	08105400	599	1924-34, 1967-76
Brushy Creek near Rockdale (d)	08106300	505	1968-80
San Gabriel River near Rockdale (d)	08106310	1,359	1974-92
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	08108000	32.20	1935-36
North Elm Creek near Cameron (d)	08108200	44.80	1963-73
Brazos River near Bryan (d)	08109000	29,949	1899-1902, 1918-26, 1926-92
Yegua Creek near Somerville (d)	08110000	1,009	1924-92
Navasota River near Groesbeck (d)	08110400	311	1965-79
Navasota River near College Station (d)	08111010	1,809	1977-85
Burton Creek at Villa Maria Road at Bryan (d)	08111025	1.33	1968-70
Hudson Creek near Bryan (d)	08111050	1.94	1968-70
Mill Creek near Bellville (d)	08111700	376	1963-93
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 (d)	08114900	5.78	1968-72
Fairchild Creek near Needville (d)	08115500	26.20	1947-54
Big Creek near Guy (d)	08116000	116	1947-50
Dry Creek near Rosenberg	08116400	8.65	1959-79
Dry Creek below Rosenberg (d)	08116500	12.20	1947-50
Big Boggy Creek near Wadsworth (d)	08117900	10.30	1970-77
East Matagorda Bay near Matagorda (e)	08117985	N/A	1973-82

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 1994 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)
West Fork San Jacinto River near Conroe	08068000	828	SC, T	1961-90
Panther Branch near Spring	08068450	34.50	S	1974-76
West Fork San Jacinto River near Humble	08069500	1,741	SC, T	1945-46
San Jacinto River near Huffman	08071500	2,800	SC	1945-54,
			T	1949-54
Buffalo Bayou at West Belt Drive at Houston	08073600	307	SC, T	1979-81
Buffalo Bayou at Main Street, Houston	08074600	469	SC, T, DO	1986-92
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	1949-51
McDonald Creek near Post	08080540	103	SC, T	1949-51,
				1964-78
Salt Fork Brazos River near Peacock	08081000	4,619	SC, T	1949-51,
				1964-86
Croton Creek near Jayton	08081200	290	SC	1960-86,
			T	1960-70,
				1083-86
Salt Croton Creek near Aspermont	08081500	64.30	SC	1970-77,
			T	1972-74
Salt Fork Brazos River near Aspermont	08082000	5,130	SC, T	1948-51,
				1956-82
Stinking Creek near Aspermont	08082100	88.80	SC	1965-68,
			T	1949-50,
				1965-69
North Croton Creek near Knox City	08082180	251	SC, T	1965-86
Clear Fork Brazos River at Hawley	08083240	1,416	SC, T	1967-79,
				1981-84
Clear Fork Brazos River at Nugent	08084000	2,199	SC, T	1948-53
California Creek near Stamford	08084800	478	SC, T	1962-79
Paint Creek near Haskell	08085000	914	SC, T	1949-51
Clear Fork Brazos River at Fort Griffin	08085500	3,988	SC, T, S	1949-51,
			SC, T	1967-79,
				1981-84
Hubbard Creek near Sedwick	08086015	128	SC, T	1963-66
Deep Creek at Moran	08086050	228	SC, T	1962-75
Hubbard Creek near Albany	08086100	454	SC, T	1962-75
North Fork Hubbard Creek near Albany	08086150	39.3	SC, T	1962-90
Salt Prong Hubbard Creek at U.S. Highway 380 near Albany	08086120	61	SC, T	1963-68
North Fork Hubbard Creek near Albany	08086150	39.30	SC, T	1962-90
Salt Prong Hubbard Creek near Albany	08086200	115	SC, T	1962-63
Snailum Creek near Albany	08086210	22.90	SC, T	1963-66
Battle Creek near Moran	08086235	108	SC, T	1966-68
Pecan Creek near Eolian	08086260	26.40	SC, T	1962-75
Big Sandy Creek near Breckenridge	08086300	288	SC, T	1962-76
Hubbard Creek near Breckenridge	08086500	1,089	SC, T	1955-75
Clear Fork Brazos River at Eliasville	08087300	5,697	SC, T	1961-82
Brazos River near South Bend	08088000	22,673	SC	1942-48
			SC, T	1977-81
Salt Creek at Olney	08088100	11.80	SC, T	1958-60
Salt Creek near Newcastle	08088200	120	SC, T	1958-60
Brazos River at Morris Sheppard Dam near Graford	08088600	23,596	SC, T	1942-91
			T	1963-64

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Brazos River near Aquilla	08093100	27,224	SC	1978-79
Aquilla Creek above Aquilla	08093360	255	SC, T	1979-83
Aquilla Creek near Aquilla	08093500	308	SC, T	1965-66, 1967-82
Leon River near Eastland	08098500	235	SC, T	1950-53
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	1964-73, 1979-82
San Gabriel River near Weir	08105300	536	T	1976-82
San Gabriel River at Laneport	08105700	738	T	1976-82
Brazos River at State Hwy. 21 near Bryan	08108700	N/A	SC, T	1961-65
Brazos River near Bryan	08109000	39,515	SC, T	1965-66
Brazos River near College Station	08109500	39,599	SC, T	1966-84
Yegua Creek near Somerville	08110000	1,009	SC, T	1961-67
Navasota River above Groesbeck	08110325	239	SC, T	1967-89
Navasota River near Groesbeck	08110400	311	SC, T	1967-78
Navasota River near Easterly	08110500	968	SC	1941-42, 1947
Navasota River near Bryan	08111000	1,454	SC, T S	1958-81, 1975-81
Brazos River near Rosharon	08116650	45,399	SC, T	1968-80
Brazos River at Harris Reservoir near Angleton	08116700	N/A	SC, Cl	1962-77
Brazos River at Brazoria Reservoir near Brazoria	08117200	N/A	SC, Cl	1962-77
San Bernard River near Boling	08117500	727	SC, T	1978-81

WATER RESOURCES DATA—TEXAS, 1995

VOLUME 2

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 four volumes of this report series entitled "Water Resources Data - Texas."

This report series includes records of stage, discharge, and water quality of streams and canals; stage, contents, and water quality of lakes and reservoirs and water levels and water quality of ground-water wells. Volume 2 contains records for water discharge at 78 gaging stations; stage only at 20 gaging stations; stage and contents at 21 lakes and reservoirs; and water quality at 43 gaging stations. Also included are data for 32 partial-record and 18 flood-hydrograph partial-record 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. 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-95-2." For archiving and general distribution, the reports for the 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or may be purchased on microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including the current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (512) 873-3000.

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 1995 are:

- Corps of Engineers, U.S. Army.
- International Boundary and Water Commission, United States and Mexico, U.S. Section.
- 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 Water District; 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 Flood Control District; Houston-Galveston Area Council; Lavaca-Navidad River Authority; Lower Colorado River Authority; Lower Neches Valley Authority; North Central Texas Council of Governments; North Central Texas Municipal Water Authority; Northeast Texas Municipal Water District; North Texas Municipal Water District; Pecos River Commission; Red Bluff Water Power Control District; Red River Authority; 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 County Water Control and Improvement District No. 1; Texas Soil & Water Conservation Board; Texas State Department of Highways & Public Transportations; Texas Natural Resources Conservation Commission; Texas Water Development Board; Titus County Fresh Water Supply District No. 1; Trinity 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 during water year 1995 generally was normal (discharges between the 25 percentile and the 75 percentile of record), except for central and east Texas, where streamflow was above normal (discharges within the upper 25 percentile of record) most of the year.

Conservation storage in 77 selected reservoirs throughout the State, with a combined conservation capacity of 34,718,000 acre-feet, decreased from 83 percent at the end of September 1994 to 82 percent at the end of September 1995. Records from these reservoirs indicate that storage increased in 43, decreased in 28, and remained the same in 6.

The area for which water resources data are presented in volume 2 extends from the New Mexico border in northwestern Texas, southeastward across the central part of the State, to the upper middle Texas Gulf Coast. Normal annual precipitation ranges from less than 17 inches in the westernmost part of the area to nearly 50 inches along the Texas Gulf Coast. Average annual runoff ranges from less than 1 inch in the west to more than 15 inches in places along the Texas Gulf Coast. The area described in volume 2 and the location of selected streamflow-gaging and water-quality stations in the area are shown in figure 1.

Streamflow

Streamflow was above normal during water year 1995 in the area covered in volume 2. Streamflow for water year 1995 and for the period of record at six 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, streamflow during water year 1995 ranged from above normal to below normal. Monthly mean discharges for water year 1995 and the median of the long-term monthly means for water years 1961–90 for the four long-term hydrologic index stations in the State are shown in figure 2. Streamflow at the hydrologic index station North Bosque River near Clifton was above normal for water year 1995. The station Neches River near Rockland had normal streamflow during May, June, and July, and above normal streamflow for the remaining 9 months. The station North Concho River near Carlsbad had below normal streamflow in May and normal streamflow, including 5 months of no flow, for the remaining 11 months. Streamflow for the station Guadalupe River near Spring Branch was normal for water year 1995.

Conservation storage in 21 selected reservoirs in this area of the State, with a total combined conservation capacity of 3,893,000 acre-feet, increased from 89 percent of capacity at the end of September 1994 to 96 percent of capacity at the end of September 1995. Records from these reservoirs indicate that storage increased in 16, decreased in 2, and remained the same in 3 during the water year.

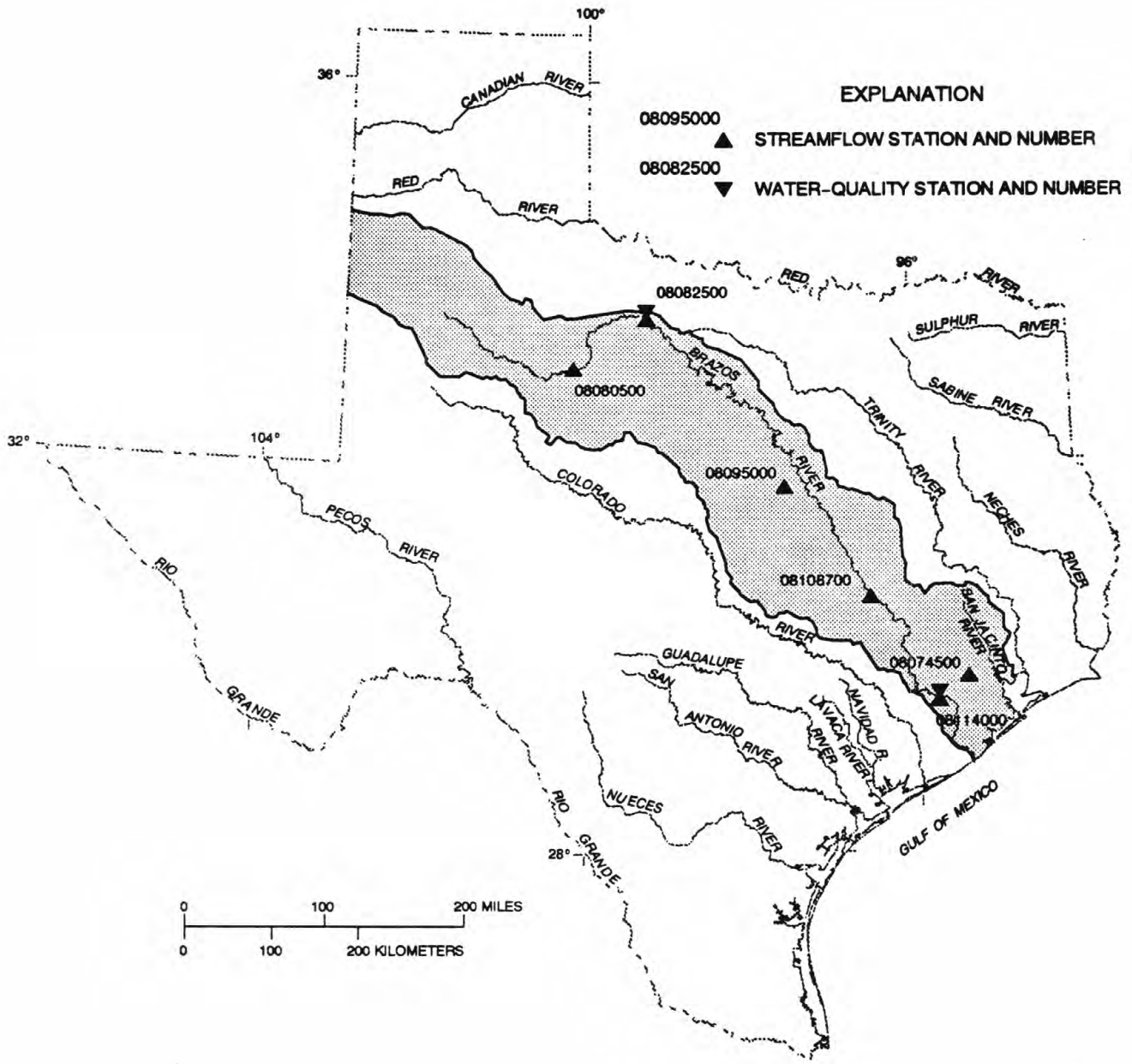


Figure 1. Area of Texas covered by volume 2 (shaded) and location of selected streamflow and water-quality stations in volume 2.

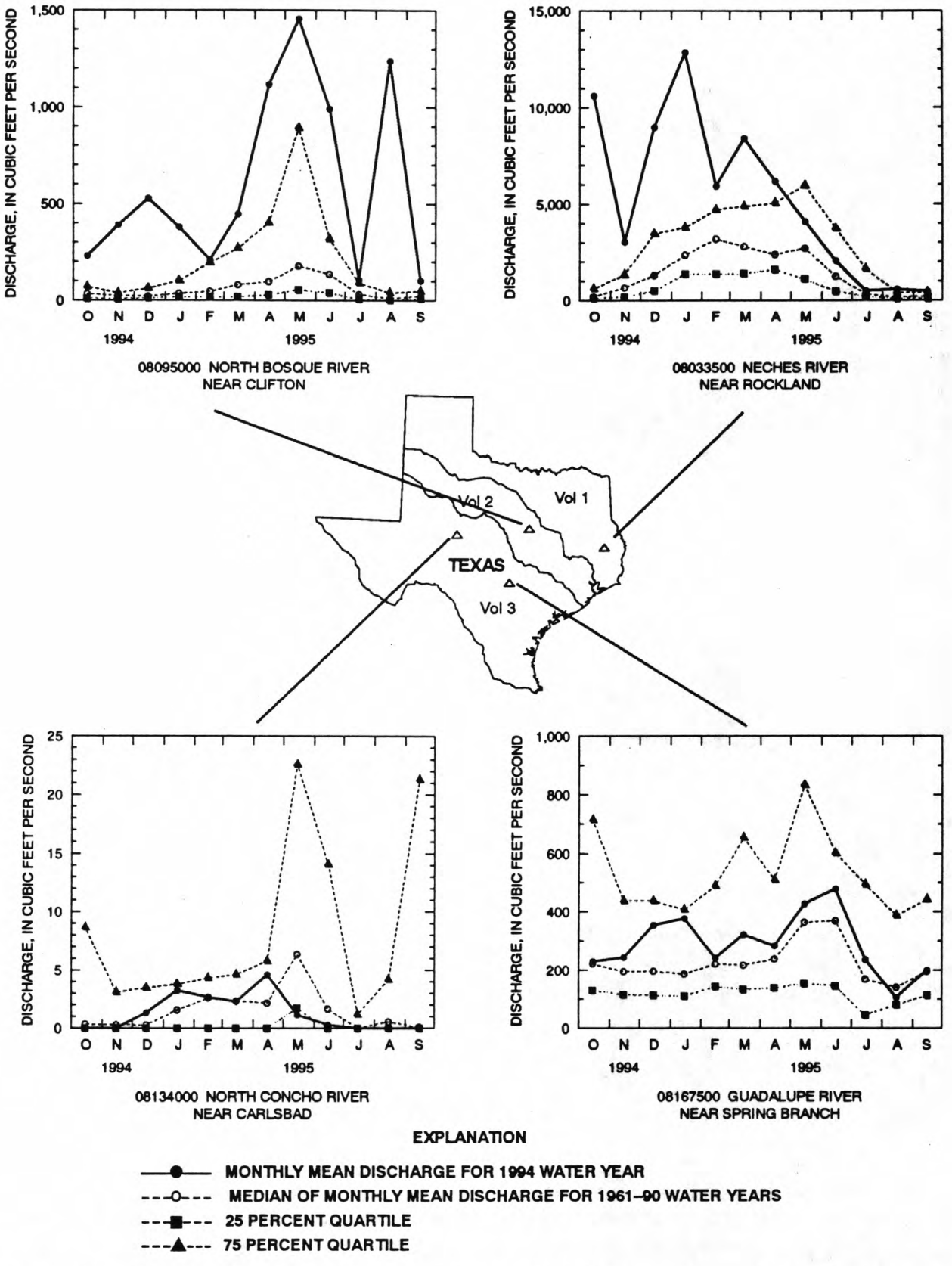


Figure 2. Monthly mean discharges at four long-term hydrologic index stations during 1995 water year and median of the monthly mean discharges for 1961–90 water years.

Water Quality

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

Records of discharge-weighted-average concentrations of dissolved solids for water year 1995 are compared with those for water years 1991–95 for selected long-term daily or continuous-record water-quality stations (fig. 1) in the Brazos River Basin. Results are shown in table 2.

Table 1. Streamflow at six selected stations

Station no. and name		Discharge during 1995 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, Tex.	11,800	30	180	25,100	0.20	97.9 (1937-95)
Brazos River Basin							
08080500	Double Mountain Fork Brazos River nr Aspermont, Tex.	5,160	0	60.5	91,400	0	154 (1925-95)
08082500	Brazos River at Seymour, Tex.	11,400	.85	255	95,400	0	371 (1924-95)
08095000	North Bosque River near Clifton, Tex. 1/	29,100	20	602	200,000	.01	234 (1968-95)
08108700	Brazos River at State Hwy. 21 near Bryan, Tex.	38,500	596	6,799	38,500	343	4,572 (1993-95)
08114000	Brazos River at Richmond, Tex. 2/	88,100	775	11,680	119,000	55	7,602 (1941-95)

1/ Hydrologic index station.
2/ National Stream Quality Accounting Network (NASQAN) site.

Table 2.--Comparison of records of discharge-weighted-average concentrations of dissolved solids for the 1995 and 1991-95 water years

Station no. and name		Mean discharge (cubic feet per second)		Discharge-weighted-average concentration of dissolved solids (milligrams per liter)	
		1995	1991-95	1995	1991-95
Brazos River Basin					
08082500	Brazos River at Seymour, Tex.	255	331	3,370	3,370
08114000	Brazos River at Richmond, Tex. 2/	11,680	11,930	257	297

2/ National Stream Quality Accounting Network (NASQAN) site.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 53 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 the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 284 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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 for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 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.

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 1995 water year that began October 1, 1994, and ended September 30, 1995. 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 and, in Texas, for surface-water stations where only miscellaneous measurements are made.

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 sta-

tion 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 water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage- recording device through which either instantaneous or mean daily 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 with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device 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 "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data obtained at a complete record gaging station on a stream or canal consist of a continuous record of stage, individual 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 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 relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters 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, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate 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 cur- rent-meter measurements, the curves are 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.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean 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 curves or 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 the backwater from reservoirs, trib-

utary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage 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 relationship 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 then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. 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 relationships much as other stream discharges are computed.

For some 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 recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily 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.

no kid
← **Station Manuscript**
underline

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.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

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 desig-

nated 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.

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 (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.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (alkalinity), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of alkalinity in the laboratory.

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 punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the Texas District Office. The address is given on the back of the title page of this report.

Water Temperature

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

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the 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 (1995) 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 mea-

surements 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.

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 a 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. Full implementation of the protocols will take place in the near future.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the U.S. Geological Survey at the National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the District office (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk.

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.

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 326,000 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 of the original water sample.

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.

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. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rodsha-ped bacteria which ferment lactose with gas formation within 24 hours at 35 °C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at +35 °C or -1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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 °C or -0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also 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 which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at +35 °C or -1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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 °C for 1 hour. The 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 °C 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. The 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 cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters or liters.

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 natural water color 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 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 2,445 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 mm 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 0.492 to reflect the change.

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

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

Drainage area of 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, 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.

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 (CaCO3).

Hydrologic Benchmark Network is a network of 53 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 the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic fea-

ture 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.

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 (mg/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, mg/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.

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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 284 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are: (1) To obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for; (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) detection of changes or trends with time in the pattern of occurrence of water- quality characteristics; and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The U.S. 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 or sieve
Gravel	2.0 - 64.0	Sieve

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

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.

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 O/(m^2/time)] for periphyton and macrophytes and [mg O/(m^3/time)] or 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. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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).

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. It is not synonymous with either discharge or concentration.

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 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. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. 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 °C. 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 65 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 emersed 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 hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey 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 mm 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 mm 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.

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	Aniimal
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 quantity of a sub- stance in solution or suspension that passes a stream section during a 24-hour period.

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.

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 "water year 1990."

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."

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 p.

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 p.

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 p.

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

2-E1. ***Application of borehole geophysics to water-resources investigations***, by W.S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 p.

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

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 p.

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 p.

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 p.

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

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

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

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

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

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

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 p.

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

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 p.

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 p.

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

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

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

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

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

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 p.

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

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

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 p.

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 p.

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

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 p.

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 p.

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 p.

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

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

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 p.

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

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

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

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

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

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

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

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 p.

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 p.

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 p.

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 p.

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 p.

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 p.

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

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 p.

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.

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

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 p.

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 p.

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 p.

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

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 p.

08067600 LAKE CONROE NEAR CONROE, TX

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

DRAINAGE AREA.--445 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--January 1973 to current year.

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

REMARKS.--The lake is formed by an earthfill dam 11,300 ft long, including a controlled spillway. The dam was completed Sept. 1, 1972, and deliberate impoundment began Jan. 9, 1973. 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. During the current year, 2,103 acre-ft were diverted to Lewis Creek Reservoir for that purpose. 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-foot-diameter conduit through the dam. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	212.0	-
Design flood	205.5	532,000
Top of tainter gates	202.5	462,600
Top of conservation pool (uncontrolled tower outlet)	201.0	430,300
Crest of spillway (sill of tainter gates)	173.0	64,960
Lowest gated outlet (invert)	144.5	300

COOPERATION.--The capacity table, furnished by the San Jacinto River Authority, is based on Geological Survey topographic maps dated 1950-59.

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, 534,900 acre-ft Oct. 17, at 2000 hours (elevation, 205.61 ft); minimum, 411,700 acre-ft Oct. 6 (elevation, 200.10 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

196.0	333,900	200.0	409,600	204.0	496,500
197.0	351,900	201.0	430,300	205.0	520,200
198.0	370,500	202.0	451,600	206.0	544,400
199.0	389,700	203.0	473,700		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	413100	430100	428800	431800	442400	432600	430700	429400	438400	426800	429000	426500
2	413100	429600	429800	431300	436900	432400	430100	428600	437300	426300	431100	426100
3	412900	429800	430300	431800	433000	431800	430700	428400	434500	425300	431800	425700
4	412500	429800	430300	431300	431300	432000	436200	428600	432200	425100	432200	425100
5	412500	432400	430700	430900	431100	432000	442900	428200	431100	426800	432400	424700
6	411700	432000	430900	431500	430900	432200	448400	428200	430500	426500	432200	423900
7	411700	431300	433200	431100	431500	439900	448600	429200	430100	426500	431800	423500
8	416900	431300	433700	431100	431300	442900	445800	432000	429600	426300	431100	423500
9	415400	432000	433500	431100	431300	442200	442200	431800	429600	425700	430700	423000
10	414800	431300	434300	431500	431800	440300	439400	432000	429600	425500	430900	422400
11	414200	430900	433200	431800	432200	438200	433000	431300	431100	425300	430500	421600
12	413800	430500	432600	433700	431800	434700	431800	430900	430300	424700	430500	422600
13	413600	430300	432200	437900	431800	447100	431100	430900	429800	423900	430100	422400
14	412900	430300	432400	440100	431100	452500	430100	430900	429200	423500	431500	422200
15	413100	431100	432400	438200	431300	451400	430100	430900	428800	423500	430900	421800
16	440500	430700	467500	435800	431800	447800	430500	430100	428400	423000	430900	421600
17	533400	430300	473000	434500	431100	443700	429600	430100	428000	422600	430700	422800
18	504300	430300	471300	449500	431300	439200	431100	431300	427600	422600	430300	422200
19	468200	430300	469300	451800	431500	435400	430700	429800	427600	423200	430100	422000
20	448400	430500	451800	449000	432000	433000	431500	429200	427400	422200	430100	422000
21	443300	430500	445400	444400	432200	431100	430700	428600	427200	421600	430300	426100
22	440300	430500	440500	441800	431800	431300	432000	427800	426800	421200	429600	423900
23	438400	430300	435800	436200	432200	431500	431100	427800	426300	420600	429400	423500
24	435200	429400	433000	433900	432800	431300	430300	427600	426100	420400	429200	423200
25	433200	429400	431300	432600	432200	431300	429400	427400	425700	419700	429200	423000
26	431800	429000	430900	453400	431500	432200	429400	427000	425100	419300	428800	422800
27	431800	430500	430900	460700	432600	432200	429800	427000	423900	418900	428000	422200
28	431500	429600	432000	461300	434700	431500	429200	426800	423900	418700	427800	421800
29	431300	429800	431800	457800	---	432000	429000	426500	426500	418900	427600	421200
30	431300	429200	431800	452300	---	431100	428200	429800	426800	421400	427000	421200
31	431300	---	431800	447100	---	430900	---	440900	---	424900	426800	---
MAX	533400	432400	473000	461300	442400	452500	448600	440900	438400	426800	432400	426500
MIN	411700	429000	428800	430900	430900	430900	428200	426500	423900	418700	426800	421200
(+)	201.05	200.95	201.07	201.79	201.21	201.03	200.90	201.50	200.83	200.74	200.83	200.56
(@)	+17900	-2100	+2600	+15300	-12400	-3800	-2700	+12700	-14100	-1900	+1900	-5600

CAL YR 1994 MAX 533400 MIN 409800 (@) +1100
WTR YR 1995 MAX 533400 MIN 411700 (@) +7800

(+) 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 and biochemical analyses: September 1973 to current year.

302127095335501 - LAKE CONROE SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)
JAN												
31...	1120	447000	1.00	140	7.6	13.5	0.75	8.5	81	48	8	17
31...	1122	--	10.0	140	7.6	13.0	--	7.9	74	--	--	--
31...	1124	--	20.0	140	7.6	13.0	--	7.9	74	--	--	--
31...	1126	--	30.0	140	7.6	13.0	--	7.5	70	--	--	--
31...	1128	--	40.0	140	7.6	13.0	--	7.4	69	--	--	--
31...	1130	--	50.0	140	7.6	13.0	--	7.2	68	--	--	--
31...	1132	--	56.0	140	7.6	13.0	--	7.2	68	48	7	17
JUN												
22...	0930	427000	1.00	155	8.3	29.0	1.95	8.1	106	52	0	18
22...	0932	--	10.0	155	8.2	28.5	--	8.1	105	--	--	--
22...	0934	--	20.0	155	7.4	27.5	--	6.9	88	--	--	--
22...	0936	--	30.0	155	7.2	26.5	--	5.0	62	--	--	--
22...	0938	--	40.0	155	7.1	25.5	--	3.0	37	--	--	--
22...	0940	--	52.0	180	7.1	23.0	--	3.0	35	59	0	21
AUG												
23...	1050	429000	1.00	155	8.7	31.5	1.00	7.4	101	52	6	18
23...	1052	--	10.0	155	8.4	31.0	--	7.0	94	--	--	--
23...	1054	--	20.0	155	7.2	30.0	--	4.6	61	--	--	--
23...	1056	--	30.0	155	6.9	29.0	--	2.7	35	--	--	--
23...	1058	--	40.0	165	6.9	27.5	--	2.6	33	--	--	--
23...	1100	--	50.0	200	6.8	25.0	--	2.6	32	59	0	21

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
JAN												
31...	1.4	7.7	0.5	2.5	40	4.0	15	<0.10	3.0	76	0.240	0.240
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	0.240	0.240
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	1.4	7.8	0.5	2.5	41	4.1	14	<0.10	3.1	76	0.240	0.240
JUN												
22...	1.6	8.1	0.5	2.5	54	5.2	13	<0.10	1.0	82	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	0.070	0.070
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	1.7	7.9	0.4	2.4	66	3.0	13	<0.10	7.0	102	--	--
AUG												
23...	1.6	8.6	0.5	2.5	46	4.5	14	<0.10	3.5	80	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	1.7	8.0	0.5	2.8	85	0.40	12	<0.10	9.9	119	--	--

08067600 LAKE CONROE NEAR CONROE, TX--Continued

302127095335501 - LAKE CONROE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JAN											
31...	0.020	0.260	0.260	<0.015	--	0.30	0.010	<0.010	--	33	2
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	0.020	0.260	0.260	0.020	0.28	0.30	0.020	<0.010	--	50	<10
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	0.020	0.260	0.260	0.020	0.28	0.30	0.020	<0.010	--	44	2
JUN											
22...	<0.010	--	<0.050	<0.015	--	0.40	0.010	0.010	0.03	10	10
22...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	0.010	0.03	20	20
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0.010	0.080	0.080	0.220	0.38	0.60	0.050	0.050	0.15	50	210
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<0.010	--	<0.050	0.690	0.41	1.1	0.210	0.210	0.64	1000	3800
AUG											
23...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	10	11
23...	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	--	<0.050	0.060	0.24	0.30	<0.010	<0.010	--	20	80
23...	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	--	<0.050	0.550	0.35	0.90	0.080	0.080	0.25	500	1900
23...	<0.010	--	<0.050	2.00	0.50	2.5	0.550	0.560	1.7	3400	4400

302132095333701 - LAKE CONROE SITE AL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN								
31...	1150	1.00	140	7.6	13.5	0.80	9.7	92
31...	1152	10.0	140	7.5	13.0	--	9.5	89
31...	1154	20.0	140	7.5	13.0	--	9.4	88
31...	1156	30.0	140	7.5	13.0	--	9.4	88
31...	1158	40.0	140	7.6	13.0	--	9.2	86
31...	1200	50.0	140	7.6	13.0	--	9.1	85
31...	1202	66.0	140	7.6	13.0	--	8.8	83
JUN								
22...	0955	1.00	155	8.2	29.0	--	7.9	103
22...	0957	10.0	155	8.0	28.5	--	7.8	101
22...	0959	20.0	155	7.6	28.0	--	7.4	95
22...	1001	30.0	155	7.2	26.5	--	5.2	65
22...	1003	40.0	155	7.2	25.5	--	3.0	37
22...	1005	50.0	180	7.2	22.5	--	3.0	35
22...	1007	61.0	195	7.2	22.0	--	3.0	34
AUG								
23...	1125	1.00	150	8.7	31.5	0.80	7.4	101
23...	1127	10.0	150	8.3	31.0	--	6.7	90
23...	1129	20.0	155	7.2	29.5	--	4.5	59
23...	1131	30.0	155	7.1	29.0	--	3.2	42
23...	1133	40.0	165	7.0	27.5	--	2.6	33
23...	1135	55.0	190	7.0	26.0	--	2.6	32

302245095365301 - LAKE CONROE SITE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
JAN								
31...	1045	1.00	140	7.5	13.0	0.70	8.7	82
31...	1047	10.0	140	7.4	13.0	--	8.8	83
31...	1049	20.0	140	7.4	13.0	--	8.6	81
31...	1051	29.0	135	7.3	12.5	--	8.4	78
JUN								
22...	0910	1.00	155	7.9	28.5	--	7.7	100
22...	0912	10.0	150	7.4	28.0	--	7.0	90
22...	0914	17.0	155	6.8	27.0	--	3.8	48
AUG								
23...	1030	1.00	155	8.7	31.5	0.85	7.2	98
23...	1032	10.0	155	8.5	31.0	--	6.7	90
23...	1034	20.0	155	8.4	31.0	--	6.6	89
23...	1036	29.0	165	6.8	29.5	--	2.6	34

08067600 LAKE CONROE NEAR CONROE, TX--Continued

302323095341201 - LAKE CONROE SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JAN								
31...	1225	1.00	140	7.6	13.5	0.90	10.6	101
31...	1227	10.0	140	7.5	13.0	--	10.5	99
31...	1229	20.0	140	7.5	13.0	--	10.4	98
31...	1231	30.0	140	7.5	13.0	--	10.4	98
31...	1233	40.0	140	7.5	13.0	--	10.3	97
31...	1235	52.0	140	7.5	13.0	--	10.1	95
JUN								
22...	1025	1.00	150	8.2	28.5	--	8.0	103
22...	1027	10.0	150	8.1	28.5	--	8.0	103
22...	1029	20.0	150	7.4	27.5	--	7.0	89
22...	1031	30.0	150	7.4	26.5	--	4.9	61
22...	1033	40.0	160	7.2	25.5	--	3.1	38
22...	1035	51.0	180	7.2	24.0	--	3.1	37
AUG								
23...	1155	1.00	150	8.6	31.0	0.85	7.1	96
23...	1157	10.0	150	8.3	30.5	--	6.4	86
23...	1159	20.0	155	7.1	30.0	--	4.4	58
23...	1201	30.0	155	7.1	29.0	--	2.8	37
23...	1203	40.0	180	7.0	27.5	--	2.6	33
23...	1205	50.5	180	6.9	26.5	--	2.6	32

302320095334001 - LAKE CONROE SITE CL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JAN								
31...	1245	1.00	135	7.5	13.5	0.80	10.7	102
31...	1247	10.0	140	7.5	13.0	--	10.8	102
31...	1249	20.0	140	7.5	13.0	--	10.8	102
31...	1251	30.0	140	7.5	13.0	--	10.7	101
31...	1253	40.0	140	7.5	13.0	--	10.7	101
31...	1255	46.0	140	7.5	13.0	--	10.7	101
JUN								
22...	1040	1.00	150	8.3	29.0	--	8.1	106
22...	1042	10.0	150	8.2	28.5	--	8.1	105
22...	1044	20.0	150	7.4	27.5	--	7.0	89
22...	1046	30.0	150	7.2	26.5	--	4.5	56
22...	1048	46.0	170	7.2	24.5	--	3.1	37
AUG								
23...	1218	1.00	150	8.7	31.5	0.90	7.4	101
23...	1220	10.0	150	8.3	30.5	--	6.5	87
23...	1222	20.0	155	7.1	29.5	--	4.2	55
23...	1224	30.0	155	7.0	29.0	--	2.8	37
23...	1226	43.0	180	7.0	27.0	--	2.6	33

302448095374101 - LAKE CONROE SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JAN								
31...	1310	1.00	135	7.4	13.0	0.60	11.0	104
31...	1312	10.0	135	7.4	13.0	--	10.9	103
31...	1314	20.0	135	7.4	13.0	--	10.8	102
31...	1316	30.0	135	7.4	13.0	--	10.4	98
JUN								
22...	1105	1.00	155	7.8	29.5	--	7.4	97
22...	1107	10.0	155	7.6	29.0	--	7.2	94
22...	1109	20.0	155	7.1	27.0	--	3.8	48
22...	1111	27.0	155	7.0	26.5	--	3.1	39
AUG								
23...	1248	1.00	150	8.8	32.0	0.75	7.5	103
23...	1250	10.0	150	8.3	31.5	--	6.3	86
23...	1252	20.0	150	8.3	31.5	--	6.3	86
23...	1254	26.0	165	6.9	30.0	--	2.6	35

08067600 LAKE CONROE NEAR CONROE, TX--Continued

302607095360901 - LAKE CONROE SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JAN												
31...	1325	1.00	135	7.5	13.5	0.70	11.3	108	46	9	16	1.4
31...	1327	10.0	130	7.4	13.0	--	11.2	106	--	--	--	--
31...	1329	20.0	130	7.4	13.0	--	11.1	105	--	--	--	--
31...	1331	30.0	130	7.4	13.0	--	11.1	105	--	--	--	--
31...	1333	42.0	130	7.4	13.0	--	11.1	105	46	9	16	1.4
JUN												
22...	1140	1.00	150	8.4	29.5	2.50	8.1	107	49	4	17	1.6
22...	1142	10.0	150	7.8	28.5	--	7.4	96	--	--	--	--
22...	1144	20.0	150	7.2	27.0	--	5.5	69	--	--	--	--
22...	1146	30.0	155	7.1	26.5	--	3.8	47	--	--	--	--
22...	1148	41.0	160	7.0	25.5	--	3.0	37	54	0	19	1.6
AUG												
23...	1315	1.00	150	8.6	32.0	0.75	6.9	95	52	4	18	1.6
23...	1317	10.0	150	8.0	31.0	--	5.9	80	--	--	--	--
23...	1319	20.0	155	7.0	29.0	--	2.8	37	--	--	--	--
23...	1321	30.0	165	6.9	28.5	--	2.6	34	--	--	--	--
23...	1323	40.0	170	6.9	28.0	--	2.6	33	54	0	19	1.6

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
JAN											
31...	7.6	0.5	2.6	37	4.0	16	<0.10	3.4	74	0.230	0.230
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	7.2	0.5	2.5	37	4.1	15	<0.10	4.0	73	0.210	0.210
JUN											
22...	8.3	0.5	2.4	45	5.2	14	<0.10	1.4	77	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	0.050	0.050
22...	--	--	--	--	--	--	--	--	--	--	--
22...	7.9	0.5	2.4	56	3.8	13	<0.10	4.4	90	--	--
AUG											
23...	8.7	0.5	2.2	48	4.4	14	0.10	4.4	82	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	8.4	0.5	2.5	64	2.8	13	<0.10	5.4	95	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JAN											
31...	0.020	0.250	0.250	<0.015	--	0.40	0.020	<0.010	--	29	3
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	0.020	0.230	0.230	0.030	0.37	0.40	0.020	<0.010	--	46	6
JUN											
22...	<0.010	--	<0.050	<0.015	--	0.40	<0.010	0.010	0.03	11	16
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0.010	0.060	0.060	0.040	0.36	0.40	0.030	0.010	0.03	50	150
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<0.010	--	<0.050	0.400	0.40	0.80	0.110	0.110	0.34	1100	2000
AUG											
23...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	7	24
23...	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	--	<0.050	0.120	0.28	0.40	0.020	<0.010	--	80	280
23...	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	--	<0.050	0.980	0.32	1.3	0.180	0.170	0.52	1000	1300

08067600 LAKE CONROE NEAR CONROE, TX--Continued

302714095372201 - LAKE CONROE SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JAN								
31...	1350	1.00	130	7.3	12.5	0.55	11.2	105
31...	1352	10.0	125	7.3	12.5	--	11.1	104
31...	1354	22.0	125	7.3	12.5	--	10.8	102
JUN								
22...	1208	1.00	150	7.8	30.0	--	7.4	98
22...	1210	10.0	155	7.1	28.0	--	4.6	59
22...	1212	20.0	160	7.0	27.5	--	3.1	39
AUG								
23...	1350	1.00	150	8.8	33.0	0.75	7.6	106
23...	1352	10.0	150	7.9	31.5	--	5.9	80
23...	1354	20.0	165	7.0	30.0	--	2.6	35

303129095360501 - LAKE CONROE SITE GC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JAN												
31...	1425	1.00	100	6.9	13.5	0.35	11.3	109	32	6	11	1.2
31...	1427	10.0	100	6.9	13.0	--	11.2	107	--	--	--	--
31...	1429	20.0	100	6.9	13.0	--	11.1	106	--	--	--	--
31...	1431	27.0	100	7.1	13.0	--	10.6	101	32	6	11	1.2
JUN												
22...	1242	1.00	155	8.0	31.0	0.81	7.4	100	52	7	18	1.7
22...	1244	10.0	155	6.9	28.5	--	3.8	49	--	--	--	--
22...	1246	20.0	155	6.8	28.5	--	3.1	40	--	--	--	--
22...	1248	27.0	160	6.9	28.5	--	3.3	43	52	4	18	1.7
AUG												
23...	1430	1.00	145	7.8	32.5	0.55	6.0	83	49	3	17	1.5
23...	1432	10.0	145	7.1	31.0	--	4.0	54	--	--	--	--
23...	1434	20.0	145	7.1	31.0	--	3.7	50	--	--	--	--
23...	1436	27.0	145	7.1	31.0	--	3.5	47	49	3	17	1.6

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
JAN											
31...	5.9	0.5	2.3	26	3.9	11	<0.10	9.8	61	0.060	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	5.8	0.4	2.3	26	3.7	11	<0.10	9.6	61	0.060	0.060
JUN											
22...	9.3	0.6	2.8	45	5.8	15	<0.10	5.1	85	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	8.5	0.5	2.4	48	5.2	14	<0.10	3.4	82	--	--
AUG											
23...	8.4	0.5	2.7	46	4.4	13	<0.10	7.0	82	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	8.4	0.5	2.6	46	4.3	13	<0.10	7.0	82	--	--

08067600 LAKE CONROE NEAR CONROE, TX--Continued

303129095360501 - LAKE CONROE SITE GC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JAN											
31...	<0.010	0.060	0.060	0.030	0.47	0.50	0.040	0.030	0.09	100	11
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	0.010	0.070	0.070	0.040	0.56	0.60	0.040	0.030	0.09	110	12
JUN											
22...	<0.010	--	<0.050	<0.015	--	0.40	<0.010	0.010	0.03	75	24
22...	<0.010	--	<0.050	0.060	0.34	0.40	0.010	0.010	0.03	60	130
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<0.010	--	<0.050	0.090	0.41	0.50	0.020	0.020	0.06	56	240
AUG											
23...	<0.010	--	<0.050	0.020	0.38	0.40	<0.010	<0.010	--	9	19
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	<0.010	--	<0.050	0.190	0.31	0.50	<0.010	<0.010	--	18	130

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 mi².

PERIOD OF RECORD.--August 1972 to 1989 (discharge for periods of outflow from Lake Conroe only), Oct. 1989 to Sept. 1993 (daily discharges 10 ft³/s or greater). Oct. 1993 to Sept. 1994 (daily discharges 100 ft³/s or greater). Oct. 1994 to Sept. 1995 (daily discharges 20 ft³/s or greater).
Water-quality records.--Chemical, biochemical and pesticide analyses: October 1972 to September 1986, and October 1987 to August 1989.

GAGE.--Water-stage recorder. Datum of gage is 116.06 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Daily discharges below 20 ft³/s are not published.

AVERAGE DISCHARGE.--17 years (water years 1973-89), 226 ft³/s (163,700 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,400 ft³/s Oct. 17, 1994 (gage height, 40.55 ft); no flow for many days.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,400 ft³/s Oct. 17 at 1430 hours (gage height, 40.55 ft).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	378	3000	1050	121	---	1100	---	---	---
2	---	---	---	---	2980	659	---	---	1710	---	---	---
3	---	---	---	---	2840	566	---	---	1730	---	---	---
4	---	---	---	---	956	212	680	---	1670	---	---	---
5	---	407	---	---	344	198	1180	---	632	---	---	---
6	---	442	---	244	---	192	1810	---	---	---	---	---
7	---	213	---	---	---	502	2250	---	---	---	---	---
8	---	---	385	---	---	765	2260	573	---	---	---	---
9	---	---	471	---	---	1020	2240	741	---	---	---	---
10	---	---	847	---	---	999	2520	219	---	---	---	---
11	---	---	873	---	---	1140	3010	177	124	---	---	---
12	---	---	643	---	---	1940	1400	---	---	---	---	---
13	---	---	292	1050	216	2190	237	---	---	---	---	---
14	---	---	213	1100	364	2840	179	---	---	---	---	---
15	---	---	224	1310	121	2950	---	---	---	---	e140	---
16	102	---	3860	1640	374	2940	---	---	---	---	---	---
17	19900	---	6720	1620	---	2900	---	---	---	---	---	---
18	33400	---	5100	2640	---	2640	---	---	---	---	---	---
19	25000	---	4250	2670	---	1920	---	---	---	---	---	---
20	11900	---	4160	3110	---	1540	267	---	---	---	---	---
21	5810	---	4010	3090	---	1170	618	---	---	---	---	---
22	3190	---	3080	3070	---	210	---	---	---	---	167	---
23	3080	---	2960	2970	---	---	24	---	---	---	---	---
24	2500	---	1760	1340	220	---	---	---	---	---	---	---
25	1210	---	918	967	447	---	---	---	---	---	---	---
26	856	---	238	1960	445	---	---	---	---	---	---	---
27	68	---	213	3030	319	---	---	---	---	---	---	---
28	---	---	376	2600	481	229	---	---	---	---	---	---
29	---	---	802	2620	---	838	---	---	---	---	---	---
30	---	---	233	2800	---	744	---	170	---	---	---	---
31	73	---	310	3040	---	364	---	461	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated

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 mi².

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 95.03 ft above sea level. May 7, 1924, to Sept. 30, 1927, nonrecording gage at railroad bridge 285 ft downstream at datum 30.10 ft higher. July 13, 1939, to Sept. 30, 1963, water-stage recorder at datum 5.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Since Jan. 9, 1973, flow regulated by Lake Conroe (station 08067600), capacity 532,000 acre-ft, 14.5 mi upstream from station. There are no large diversions above station. Satellite telemeter at station.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	144	42	464	2880	1340	481	70	1100	66	140	25
2	23	98	41	227	2730	998	292	73	2140	51	522	22
3	24	89	176	119	2630	938	157	71	2750	43	716	22
4	23	88	113	99	1540	612	712	68	3350	41	286	21
5	24	165	90	87	749	508	2210	58	1910	50	284	20
6	23	453	129	252	327	472	3120	54	460	69	194	21
7	24	441	95	105	256	626	4370	60	194	67	154	22
8	123	247	111	72	238	1010	7090	484	134	49	484	25
9	106	154	434	64	214	1900	4950	958	109	40	394	22
10	56	122	510	64	205	2550	2770	437	95	38	101	19
11	43	90	812	62	202	1470	2640	256	251	36	58	21
12	37	82	872	66	197	1570	1850	161	173	32	46	38
13	33	86	728	1140	227	3050	560	113	103	30	44	165
14	32	68	505	1430	532	4680	414	101	87	29	36	74
15	49	57	346	1500	271	7530	221	85	74	29	305	45
16	130	59	614	1740	509	7940	154	73	66	29	134	35
17	34800	63	5450	1540	282	4370	137	64	61	28	58	29
18	97200	64	14300	3530	166	2900	125	71	56	28	39	27
19	47700	66	13200	4720	150	2000	123	65	52	46	30	25
20	24200	54	6670	5480	141	1450	160	57	50	125	26	26
21	17500	50	4360	6620	135	1280	769	49	47	57	53	28
22	10100	47	3050	4080	126	494	247	44	43	38	207	59
23	4050	50	2470	3090	120	213	184	42	41	32	86	36
24	2690	44	1820	1960	177	165	170	40	39	29	51	20
25	1460	43	1030	1210	551	144	114	38	37	27	31	161
26	1280	40	430	3000	541	129	112	36	35	26	29	240
27	478	58	312	15200	537	118	114	35	33	25	27	107
28	220	57	241	14500	841	134	99	33	33	24	28	77
29	188	65	1000	8830	---	665	137	36	48	25	28	44
30	137	69	472	4990	---	972	103	91	111	31	26	29
31	137	---	353	3320	---	632	---	512	---	238	24	---
TOTAL	242913	3213	60776	89561	17474	52860	34585	4335	13682	1478	4641	1505
MEAN	7836	107	1961	2889	624	1705	1153	140	456	47.7	150	50.2
MAX	97200	453	14300	15200	2880	7940	7090	958	3350	238	716	240
MIN	23	40	41	62	120	118	99	33	33	24	24	19
AC-FT	481800	6370	120500	177600	34660	104800	68600	8600	27140	2930	9210	2990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995#, BY WATER YEAR (WY)

MEAN	586	449	663	902	913	676	800	799	703	129	84.2	262
MAX	7836	2080	2064	2889	3258	1705	4185	4153	2609	392	368	1945
(WY)	1995	1975	1977	1995	1992	1995	1979	1983	1979	1989	1983	1979
MIN	18.8	25.7	31.4	44.5	44.2	41.7	38.8	37.6	32.1	19.6	18.9	21.0
(WY)	1991	1991	1981	1981	1981	1981	1978	1978	1990	1978	1981	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1973 - 1995#	
ANNUAL TOTAL	391738		527023			
ANNUAL MEAN	1073		1444		578	
HIGHEST ANNUAL MEAN					1444	1995
LOWEST ANNUAL MEAN					226	1981
HIGHEST DAILY MEAN	97200	Oct 18	97200	Oct 18	97200	Oct 18 1994
LOWEST DAILY MEAN	20	Jul 30	19	Sep 10	11	Aug 20 1981
ANNUAL SEVEN-DAY MINIMUM	20	Jul 28	21	Sep 4	11	Aug 18 1981
INSTANTANEOUS PEAK FLOW			115000	Oct 18	115000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			32.30	Oct 18	32.30	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	777000		1045000		418900	
10 PERCENT EXCEEDS	1440		2890		1550	
50 PERCENT EXCEEDS	69		125		100	
90 PERCENT EXCEEDS	24		29		25	

Period of regulated streamflow.

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

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

DRAINAGE AREA.--962 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 33 ft above sea level, from topographic map and levels.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. There is considerable regulation during high flow periods by Lake Conroe (capacity 532,000 acre-ft) 34.3 mi upstream. 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, which has several large diversions. There are no large diversions upstream from station. There is only minor sewage effluent being discharged by the city of Conroe and by other smaller communities into the river upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	303	88	622	3060	1860	809	94	1210	228	540	22
2	38	252	88	555	2840	1530	559	81	2300	125	595	22
3	30	209	246	246	2720	1230	315	75	2680	97	1040	21
4	30	196	358	183	2210	1070	678	71	3120	e83	540	20
5	29	308	193	154	1010	709	3650	67	2720	e90	348	19
6	28	708	177	173	471	616	3670	e62	996	154	488	19
7	31	766	189	333	254	676	4000	67	358	104	213	18
8	64	654	156	143	227	1240	5010	291	216	e88	475	18
9	322	402	345	111	204	1670	4740	1510	162	e82	542	17
10	127	294	621	103	184	2630	3330	878	132	e78	291	17
11	72	213	954	99	183	2060	3430	600	178	e74	95	17
12	56	167	1160	97	173	1570	2760	522	439	e71	70	15
13	49	152	1080	1380	160	2940	1090	255	186	e67	e64	245
14	44	139	874	2090	359	5100	595	161	131	e63	e60	206
15	58	137	606	1870	443	5040	445	120	109	e60	132	105
16	141	129	727	2020	342	5880	265	97	96	e58	339	73
17	19900	126	2790	1940	505	4580	219	82	e90	e57	87	56
18	e99800	123	6100	2630	214	3350	194	130	e84	e56	e50	46
19	e113000	123	7520	5020	167	2560	179	153	e80	99	e36	44
20	e60300	123	5680	4140	144	1920	174	85	e76	278	e30	46
21	e20700	116	4200	5020	131	1720	698	68	e72	185	e35	55
22	e7330	112	3490	4220	119	1040	569	e62	e69	e90	e350	80
23	e4970	108	2730	3230	107	439	221	e58	e66	e68	e200	88
24	e3670	105	2440	2560	119	276	234	e55	e63	e60	e60	64
25	e2530	102	1560	1430	413	232	179	e53	e61	e56	e42	51
26	e2070	100	896	1630	602	204	138	e50	e59	e54	e35	328
27	e1190	101	409	9950	586	207	121	e48	e57	e53	e32	261
28	e533	97	372	8880	1120	183	108	e45	e70	e52	e30	121
29	374	95	1210	6940	---	501	102	e51	97	e50	e28	75
30	355	93	1110	4970	---	1440	108	67	205	e80	e27	58
31	286	---	586	3710	---	1090	---	406	---	433	e25	---
TOTAL	338157	6553	48955	76449	19067	55563	38590	6364	16182	3193	6899	2227
MEAN	10910	218	1579	2466	681	1792	1286	205	539	103	223	74.2
MAX	113000	766	7520	9950	3060	5880	5010	1510	3120	433	1040	328
MIN	28	93	88	97	107	183	102	45	57	50	25	15
AC-FT	670700	13000	97100	151600	37820	110200	76540	12620	32100	6330	13680	4420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

MEAN	1197	473	892	1270	1191	1033	782	769	927	159	94.5	83.9
MAX	10910	2259	1881	2726	3763	2041	2229	2174	3169	536	223	166
(WY)	1995	1986	1992	1992	1992	1992	1991	1993	1993	1989	1995	1986
MIN	22.2	29.8	42.7	167	351	117	73.0	59.4	42.0	40.5	30.5	33.5
(WY)	1991	1991	1990	1986	1988	1986	1986	1988	1990	1994	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	521942		618199			
ANNUAL MEAN	1430		1694		747	
HIGHEST ANNUAL MEAN					1694	1995
LOWEST ANNUAL MEAN					309	1988
HIGHEST DAILY MEAN	113000	Oct 19	113000	Oct 19	113000	Oct 19 1994
LOWEST DAILY MEAN	27	Jul 29	15	Sep 12	15	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	28	Jul 27	17	Sep 6	17	Sep 6 1995
INSTANTANEOUS PEAK FLOW			130000	Oct 18	130000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			a40.10	Oct 18	40.10	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	1035000		1226000		541500	
10 PERCENT EXCEEDS	2110		3080		2060	
50 PERCENT EXCEEDS	123		193		125	
90 PERCENT EXCEEDS	35		50		34	

e Estimated
a From floodmark.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: February 1984 to current year. Pesticide analyses: February 1984 to September 1990.

INSTRUMENTATION.--Stage-activated water-sampler since January 1985 provides water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB										
03...	0933	2670	158	6.4	14.5	10.0	98	130	150	49
JUN										
08...	0925	87	252	7.4	27.5	6.8	86	180	120	72
AUG										
24...	1112	25	258	7.6	30.0	8.4	112	680	200	65

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB										
03...	3	17	1.6	9.4	0.6	2.6	46	4.7	15	<0.10
JUN										
08...	14	25	2.4	20	1	3.6	58	8.7	33	0.30
AUG										
24...	6	22	2.4	26	1	3.1	59	10	38	0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB										
03...	4.4	84	0.270	0.270	0.010	0.280	0.280	<0.015	0.68	0.40
JUN										
08...	13	143	0.390	--	<0.010	0.390	0.390	<0.015	1.1	0.70
AUG										
24...	8.4	147	0.320	0.320	0.010	0.330	0.330	<0.015	1.2	0.90

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB									
03...	0.30	0.40	0.030	0.020	0.010	0.03	9.7	84	17
JUN									
08...	0.50	0.70	0.150	0.090	0.100	0.31	13	160	33
AUG									
24...	0.60	0.90	0.120	0.050	0.040	0.12	9.5	85	21

08068520 SPRING CREEK AT SPRING, TX

LOCATION.--Lat 30°05'31", long 95°24'21", Harris-Montgomery County line, Hydrologic Unit 12040102, near right bank at upstream side of bridge on Riley-Fussel Road, 1.1 mi northeast of Spring, 2.7 mi downstream from Missouri Pacific Railroad bridge, 3.6 mi downstream from former station 08068500 at Interstate Highway 45, 6.9 mi upstream from Cypress Creek, and 9.9 mi upstream from mouth.

DRAINAGE AREA.--419 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1939 to current year. Prior to 1975, published as "near Spring".

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.17 ft above sea level. Prior to Jan. 5, 1946, nonrecording gage, and Jan. 6, 1946, to Oct. 1, 1965, water-stage recorder at site 3.6 mi upstream at different datum. Oct. 2, 1965, to Feb. 19, 1976, water-stage recorder at former site at datum 10.93 ft higher; unadjusted for land-surface subsidence.

REMARKS.--Records fair. No known diversions above station. Rain gage at station. Radio telemeter at station.

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

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	Unknown	78,800	a44.05	Mar. 15	2100	4,750	16.52
Jan. 27	1500	3,740	14.85	Apr. 7	1200	2,860	13.23
Jan. 29	1400	4,580	16.24				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	147	75	191	334	1500	265	63	658	59	367	e27
2	27	139	76	139	249	1930	183	61	698	66	229	e26
3	19	137	305	99	202	1240	145	59	783	53	160	e25
4	18	136	245	86	170	568	709	59	875	48	100	e24
5	20	218	168	75	147	436	1870	58	307	54	83	e23
6	20	277	135	70	137	357	2000	58	148	67	106	e23
7	20	206	118	66	121	426	2630	59	114	65	123	e24
8	124	171	103	62	118	493	1730	441	97	69	77	e27
9	235	150	91	60	111	435	877	466	85	51	61	e24
10	142	144	132	57	109	316	429	445	78	44	49	e21
11	86	139	132	55	108	209	478	232	139	40	45	e22
12	56	127	121	84	104	164	249	127	186	38	44	e28
13	42	109	142	1410	101	780	177	105	143	36	42	302
14	35	107	117	1030	99	1870	142	92	89	35	76	240
15	46	109	164	909	98	3740	123	85	70	33	e260	109
16	151	108	390	690	115	3500	111	78	61	32	e70	70
17	5650	109	511	249	118	1260	103	73	57	32	48	52
18	e55900	107	326	441	106	545	96	242	56	30	40	45
19	e55000	105	195	757	104	337	92	230	54	39	37	39
20	e25600	103	135	802	100	263	101	111	50	106	35	36
21	e10700	100	107	978	93	217	94	78	48	85	39	114
22	e3800	91	97	511	89	189	90	67	46	49	137	229
23	e972	88	81	226	87	170	111	62	45	39	99	116
24	e473	80	71	165	115	154	95	58	44	35	75	73
25	e378	79	65	144	122	140	82	58	41	31	59	53
26	e287	79	61	924	234	131	74	55	41	e29	42	43
27	256	80	60	3530	163	174	72	51	40	e26	35	39
28	234	80	117	2930	1250	139	69	54	42	e25	37	35
29	214	78	518	4260	---	162	67	51	57	e26	35	33
30	180	76	362	2590	---	287	65	96	71	34	31	31
31	162	---	255	753	---	262	---	136	---	164	e28	---
TOTAL	160870	3679	5475	24343	4904	22394	13329	3910	5223	1540	2669	1953
MEAN	5189	123	177	785	175	722	444	126	174	49.7	86.1	65.1
MAX	55900	277	518	4260	1250	3740	2630	466	875	164	367	302
AC-FT	319100	7300	10860	48280	9730	44420	26440	7760	10360	3050	5290	3870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	196	255	234	338	358	226	356	354	298	94.7	71.7	115
MAX	5189	2536	1949	1710	1932	936	2106	1541	1519	577	1208	1184
(WY)	1995	1941	1941	1979	1992	1941	1979	1993	1973	1946	1945	1979

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	225403		250289			
ANNUAL MEAN	618		686		242	
HIGHEST ANNUAL MEAN					819	1941
HIGHEST DAILY MEAN	55900	Oct 18	55900	Oct 18	55900	Oct 18 1994
LOWEST DAILY MEAN	18	Oct 4	18	Oct 4	1.1	Oct 23 1956
ANNUAL SEVEN-DAY MINIMUM	21	Oct 1	21	Oct 1	1.6	Oct 20 1956
INSTANTANEOUS PEAK FLOW			78800	Oct 18	78800	Oct 18 1994
INSTANTANEOUS PEAK STAGE			44.05	Oct 18	44.05	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	447100		496400		175200	
10 PERCENT EXCEEDS	469		702		419	
50 PERCENT EXCEEDS	72		104		42	
90 PERCENT EXCEEDS	28		35		11	

e Estimated
a From floodmark.

08068520 SPRING CREEK AT SPRING, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: August 1983 to current year. Pesticide analyses: August 1983 to September 1990.

INSTRUMENTATION.--Stage-activated water sampler since October 1984 provides water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB										
02...	1216	256	182	6.4	14.0	9.0	87	160	K12	40
JUN										
06...	1044	150	215	6.9	25.0	7.0	86	210	620	44
AUG										
23...	1037	97	279	7.3	29.0	7.4	96	720	500	47

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB										
02...	3	12	2.5	19	1	2.5	37	6.6	26	<0.10
JUN										
06...	0	13	2.7	25	2	3.6	50	7.6	27	0.30
AUG										
23...	0	15	2.3	37	2	5.0	66	10	35	0.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB										
02...	12	105	0.620	0.620	0.020	0.640	0.640	0.060	1.4	0.74
JUN										
06...	10	125	0.930	0.930	0.030	0.960	0.960	0.090	1.8	0.71
AUG										
23...	9.2	162	1.68	1.68	0.020	1.70	1.70	<0.015	2.5	0.80

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
02...	0.74	0.80	0.80	0.150	0.080	0.080	0.25	16	740	120
JUN										
06...	0.51	0.60	0.80	0.240	0.230	0.220	0.67	15	880	65
AUG										
23...	--	0.70	0.80	0.420	0.290	0.290	0.89	12	290	20

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 station 08068700, 5.6 mi southeast of Hockley, and 6.3 mi upstream from station 08068740.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--June 1975 to July 1983, February 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.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions and return flow for irrigation occur upstream from station. Radio telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	51	.00	e1.0	35	648	e16	.35	89	18	19	.08
2	.55	32	.10	e4.0	30	487	e14	.27	141	5.4	16	.11
3	.00	28	26	e10	23	155	e10	.17	59	1.6	10	.12
4	.00	31	37	e40	16	97	e200	.17	24	.54	7.2	.09
5	.00	e20	22	e38	12	71	e600	.33	8.2	.58	5.1	.05
6	.00	e17	16	7.7	8.4	57	e800	.30	2.4	1.5	16	.01
7	.00	e14	12	7.1	6.9	59	e700	.30	1.1	.92	11	.01
8	110	e12	11	6.2	5.3	60	e400	65	.62	.70	20	.12
9	163	e13	4.1	5.3	4.0	41	e100	135	1.5	.45	16	.09
10	76	11	1.0	4.9	3.9	29	e70	53	1.9	.27	8.4	.13
11	25	7.9	e16	4.5	3.9	23	e51	25	36	.25	2.7	.16
12	14	2.8	e5.0	7.3	3.4	17	36	13	114	.47	6.6	.28
13	11	1.1	e3.0	299	2.5	307	27	14	50	.29	8.4	50
14	7.6	1.2	e10	540	2.0	810	21	12	14	1.1	4.1	110
15	8.5	1.2	e20	350	1.8	950	19	6.2	3.6	1.3	2.2	15
16	13	3.7	e100	114	2.3	920	14	3.6	1.0	.69	1.5	2.5
17	452	4.5	e200	73	4.1	535	11	2.5	.64	.82	2.5	.84
18	1970	6.1	e100	68	2.6	175	9.1	4.1	1.3	.88	1.4	.34
19	2160	4.7	e60	89	2.3	92	7.1	38	2.2	.59	.64	1.8
20	1880	3.4	e40	64	2.1	60	7.2	21	2.6	.49	.34	3.1
21	1600	2.8	e30	43	2.1	44	8.1	8.4	1.7	.40	.20	11
22	1150	1.8	e20	33	1.5	30	9.9	3.7	.77	.27	5.2	20
23	642	.80	e13	28	1.2	23	7.4	2.3	.47	.18	7.4	17
24	420	.30	e10	24	.77	18	3.9	1.7	.59	.16	.75	3.1
25	189	.17	e8.0	19	.96	21	1.8	2.9	.56	.11	.49	.86
26	121	.10	e6.0	42	1.7	e24	1.2	1.4	.53	.13	.24	1.0
27	86	.10	e5.0	261	2.0	e23	.73	.80	.77	.13	.23	1.3
28	77	.21	e3.0	253	349	e19	.52	.74	1.3	.05	.23	.98
29	71	.00	e2.0	105	---	e14	.43	.67	4.3	.14	.17	.58
30	69	.00	e1.6	58	---	e16	.41	3.9	18	.34	.15	.41
31	62	---	e1.3	40	---	e20	---	61	---	1.4	.13	---
TOTAL	11378.13	271.88	783.10	2639.0	530.73	5845	3146.79	481.80	583.05	40.15	174.27	241.06
MEAN	367	9.06	25.3	85.1	19.0	189	105	15.5	19.4	1.30	5.62	8.04
MAX	2160	51	200	540	349	950	800	135	141	18	20	110
MIN	.00	.00	.00	1.0	.77	14	.41	.17	.47	.05	.13	.01
AC-FT	22570	539	1550	5230	1050	11590	6240	956	1160	80	346	478

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995h, BY WATER YEAR (WY)

MEAN	42.9	54.4	75.4	108	91.8	50.5	70.5	95.6	106	18.9	5.63	30.1
MAX	367	229	257	508	534	196	344	377	375	98.7	24.8	358
(WY)	1995	1986	1977	1979	1992	1992	1991	1993	1987	1979	1994	1979
MIN	.090	.091	.000	.85	.000	.55	.10	1.02	.22	.17	.019	.010
(WY)	1989	1978	1989	1990	1976	1982	1987	1978	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995h	
ANNUAL TOTAL	19363.92		26114.96			
ANNUAL MEAN	53.1		71.5		62.3	
HIGHEST ANNUAL MEAN					186	1979
LOWEST ANNUAL MEAN					5.01	1990
HIGHEST DAILY MEAN	2160	Oct 19	2160	Oct 19	2240	Jan 20 1979
LOWEST DAILY MEAN	.00	Jul 4	.00	Oct 3	.00	Sep 9 1975
ANNUAL SEVEN-DAY MINIMUM	.01	Jul 3	.07	Sep 1	.00	Jan 31 1976
INSTANTANEOUS PEAK FLOW			2300	Oct 18	2370	Jan 20 1979
INSTANTANEOUS PEAK STAGE			63.49	Oct 18	63.49	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	38410		51800		45160	
10 PERCENT EXCEEDS	66		112		122	
50 PERCENT EXCEEDS	6.1		6.2		3.1	
90 PERCENT EXCEEDS	.12		.21		.00	

e Estimated
h See PERIOD OF RECORD paragraph.

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 station 08068720.

DRAINAGE AREA.--131 mi².

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Stage discharge relationship affected by seasonal vegetal growth during most years. Considerable diversions and return flow from irrigation occurs upstream from station, especially during the period April through October.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	e71	e5.3	e4.9	e43	810	19	6.8	211	17	10	.95
2	.53	e45	e7.6	e10	e34	748	18	5.8	232	5.8	12	.76
3	1.7	33	e35	e45	e29	401	18	5.5	98	3.7	13	.63
4	.98	e29	e47	e44	e24	192	167	5.1	26	2.7	7.7	.56
5	.56	e39	e21	e33	e20	127	725	5.5	11	2.4	7.2	.62
6	.35	e66	e15	e9.3	e14	90	846	5.9	4.9	2.7	12	.59
7	.92	e37	e10	8.0	11	99	828	5.1	3.4	2.8	7.2	.63
8	e34	e21	e8.1	7.2	9.6	98	678	98	2.5	1.9	15	.60
9	e83	e18	e8.8	6.1	8.3	67	284	150	2.0	2.1	18	.48
10	e54	e17	e15	5.9	8.0	43	130	40	3.1	1.4	14	.48
11	e21	e15	e18	5.1	7.7	31	82	14	29	1.8	6.4	.74
12	e29	e12	e14	15	6.9	26	50	7.8	134	1.3	4.5	.74
13	e29	e9.9	e8.3	422	6.5	354	34	6.0	64	3.4	6.4	20
14	e18	e9.9	e7.3	675	6.4	896	27	6.2	13	3.3	6.7	148
15	e18	e8.6	e14	618	6.5	1030	25	4.5	5.4	3.1	5.5	17
16	22	e8.8	e105	244	7.0	1080	21	3.2	3.6	3.0	2.6	2.3
17	e600	e9.0	e251	114	8.1	883	18	2.6	2.2	1.8	2.2	2.3
18	e2200	e9.9	e209	92	6.8	409	17	8.0	1.8	2.2	2.2	3.2
19	e2300	e9.3	e106	115	6.1	161	15	20	2.6	2.6	1.5	2.0
20	e2000	e9.2	e64	85	5.6	101	14	11	3.6	1.8	1.1	3.4
21	e1900	e8.6	e51	59	5.1	78	15	4.6	3.1	2.1	1.5	14
22	e1000	e11	e29	40	4.8	47	15	3.2	2.6	1.3	3.2	28
23	e700	e11	e22	29	4.2	34	14	2.2	2.0	1.3	6.0	22
24	e400	e9.9	e19	24	5.9	25	12	1.8	1.5	1.4	3.0	5.2
25	e220	e8.3	e16	20	8.6	24	9.4	1.5	1.4	1.2	2.4	3.4
26	e150	e6.9	e13	92	8.0	26	8.4	2.0	1.6	1.2	1.6	2.3
27	e90	e7.3	e12	586	8.0	23	7.6	1.3	1.4	2.2	1.1	3.0
28	e88	e7.3	e11	536	605	20	6.9	1.1	1.8	1.3	1.1	3.1
29	e109	e6.0	e8.1	258	---	17	6.6	1.2	18	2.2	1.4	2.8
30	e111	e5.3	e6.4	97	---	18	6.5	64	16	1.5	1.2	2.3
31	e93	---	e5.6	e57	---	23	---	71	---	5.0	1.2	---
TOTAL	12274.23	559.2	1162.5	4356.5	918.1	7981	4117.4	564.9	902.5	87.5	178.9	292.08
MEAN	396	18.6	37.5	141	32.8	257	137	18.2	30.1	2.82	5.77	9.74
MAX	2300	71	251	675	605	1080	846	150	232	17	18	148
MIN	.19	5.3	5.3	4.9	4.2	17	6.5	1.1	1.4	1.2	1.1	.48
AC-FT	24350	1110	2310	8640	1820	15830	8170	1120	1790	174	355	579

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

MEAN	51.8	67.2	98.6	132	117	62.9	94.8	126	145	28.4	17.3	47.7
MAX	396	254	336	685	649	257	463	513	625	120	214	537
(WY)	1995	1986	1977	1979	1992	1995	1991	1993	1993	1979	1983	1979
MIN	.95	.27	.26	1.93	.065	1.27	.16	1.95	.93	1.88	1.55	.86
(WY)	1989	1978	1989	1976	1976	1986	1987	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	22807.37		33394.81			
ANNUAL MEAN	62.5		91.5		81.9	
HIGHEST ANNUAL MEAN					255	1979
LOWEST ANNUAL MEAN					13.5	1990
HIGHEST DAILY MEAN	2300	Oct 19	2300	Oct 19	2550	Sep 23 1979
LOWEST DAILY MEAN	.13	Jul 30	.19	Oct 1	.00	Mar 3 1976
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 21	.57	Sep 4	.00	Jan 3 1978
INSTANTANEOUS PEAK FLOW			5200	Oct 19	5200	Oct 19 1994
INSTANTANEOUS PEAK STAGE			47.61	Oct 19	47.61	Oct 19 1994
ANNUAL RUNOFF (AC-FT)	45240		66240		59300	
10 PERCENT EXCEEDS	89		177		171	
50 PERCENT EXCEEDS	6.4		9.9		5.9	
90 PERCENT EXCEEDS	.92		1.4		.29	

e Estimated

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-Rose Hill Road, 3.2 mi north of Cypress, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--41.0 mi².

PERIOD OF RECORD.--May 1982 to September 30, 1992 (daily discharges); October 1, 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.

REMARKS.--No known regulation or diversions. Rain gage at station. Radio telemetry at station.

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

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

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	0300	4,520	81.41	Mar. 13	2200	695	75.91
Feb. 28	1400	1,450	78.18	Apr. 5	0200	569	75.23

08068800 CYPRESS CREEK AT GRANT ROAD NEAR CYPRESS, TX
(Flood-hydrograph partial-record station)

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

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--May 1982 (discharge measurements only), October 1982 to Sept. 30, 1992 (daily discharge); Oct. 1, 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.

REMARKS.--Base flow sustained by effluent from urbanized farming areas in the basin. Radio telemetry at station.

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

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

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct 18	2100	10,500	47.38				

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.--June 1982 to May 1986 and February to September 1987 (gage heights and discharge measurements only). October 1987 to September 1989 (daily mean discharge). October 1989 to September 1992 (annual maximum gage height and discharge). October 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.

REMARKS.--Low flow is sustained by sewage effluent from urbanized areas and drainage from irrigated farm land. Rain gage at station. Radio telemetry at station.

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 above 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)
Oct. 19	0300	11,300	39.61	Jan. 27	0230	2,470	27.04

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 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. 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.

REMARKS.--No estimated daily discharges. Records good. Low flow is maintained by sewage effluent. Channel below gage was rectified in 1950-51, 1975, and 1981. Rain gage at station. Radio telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 34 ft May 1929 (discharge, 26,000 ft³/s), present datum, from information by local resident. Flood in November 1940 reached a stage of about 32 ft, present datum (discharge, 15,000 ft³/s), from information by State Department of Highways and Public Transportation.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 19	1300	10,700	26.92	Feb. 28	0500	2,690	11.81
Dec. 16	1100	3,170	13.16	Apr. 4	1600	3,240	13.58
Jan. 13	0200	2,600	11.73	Sept. 21	2200	2,540	11.28
Jan. 27	0300	4,170	15.49				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	144	11	72	125	2280	27	24	1160	85	143	56
2	29	101	39	47	103	1640	15	27	705	140	265	66
3	18	68	530	39	89	977	14	28	439	62	162	69
4	17	61	125	26	66	528	1470	26	193	91	67	77
5	16	201	76	20	56	332	1670	27	100	123	47	93
6	17	151	39	19	50	227	1830	26	61	123	53	81
7	25	100	34	15	43	347	1350	53	45	41	114	75
8	401	56	32	13	41	250	1040	932	34	30	79	57
9	357	67	18	14	36	161	665	514	33	28	52	56
10	203	48	135	11	36	96	394	293	29	28	61	58
11	92	36	56	10	32	60	633	123	397	24	59	76
12	51	30	31	132	30	44	372	75	173	23	96	258
13	52	24	25	1600	30	1030	75	47	250	22	100	334
14	47	22	40	984	31	1610	59	39	124	23	485	88
15	339	20	101	868	29	1660	47	41	57	20	191	219
16	570	19	1600	633	29	1250	39	37	38	22	63	74
17	4040	16	1070	307	29	1170	35	34	29	29	40	43
18	8550	16	626	449	28	834	31	200	26	36	31	87
19	10400	20	328	233	81	370	26	94	27	102	29	42
20	8750	18	163	211	40	188	53	78	25	116	29	47
21	6680	18	136	125	29	118	45	55	26	33	73	810
22	4620	16	73	118	24	80	25	40	28	22	93	732
23	3220	15	51	106	23	49	24	32	26	19	44	134
24	2440	18	39	48	133	36	27	27	26	20	113	90
25	1590	16	29	37	187	24	24	26	24	20	123	54
26	782	15	22	848	105	24	23	24	24	19	36	40
27	534	18	19	3020	80	216	22	26	25	19	29	33
28	348	16	345	1480	2200	30	22	34	87	19	31	32
29	237	13	706	770	---	49	23	41	136	32	26	30
30	196	12	189	395	---	45	22	612	159	77	44	27
31	167	---	122	202	---	31	---	377	---	398	58	---
TOTAL	54806	1375	6810	12852	3785	15756	10102	4012	4506	1846	2836	3938
MEAN	1768	45.8	220	415	135	508	337	129	150	59.5	91.5	131
MAX	10400	201	1600	3020	2200	2280	1830	932	1160	398	485	810
MIN	16	12	11	10	23	24	14	24	24	19	26	27
AC-FT	108700	2730	13510	25490	7510	31250	20040	7960	8940	3660	5630	7810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	166	165	184	237	234	114	212	279	254	86.6	58.3	127
MAX	1768	1788	931	1168	1322	516	1133	1260	1157	588	562	862
(WY)	1995	1947	1992	1979	1992	1993	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	101426		122624			
ANNUAL MEAN	278		336		176	
HIGHEST ANNUAL MEAN					510	1992
LOWEST ANNUAL MEAN					7.53	1956
HIGHEST DAILY MEAN	10400	Oct 19	10400	Oct 19	15600	Oct 8 1949
LOWEST DAILY MEAN	11	Dec 1	10	Jan 11	.00	Aug 3 1948
ANNUAL SEVEN-DAY MINIMUM	14	Sep 20	14	Nov 25	.00	Aug 3 1948
INSTANTANEOUS PEAK FLOW			10700	Oct 19	22100	Oct 8 1949
INSTANTANEOUS PEAK STAGE			26.92	Oct 19	33.44	Oct 8 1949
ANNUAL RUNOFF (AC-FT)	201200		243200		127500	
10 PERCENT EXCEEDS	423		775		399	
50 PERCENT EXCEEDS	43		56		25	
90 PERCENT EXCEEDS	19		20		1.4	

08069000 CYPRESS CREEK NEAR WESTFIELD, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: March 1959 to April 1964, October 1977 to June 1978, August 1983 to current year. Chemical and biochemical analyses: August 1983 to current year. Pesticide analyses: August 1983 to September 1990. Sediment analyses: October 1976 to September 1979, October to April 1990.

INSTRUMENTATION.--Stage-activated water sampler since October 1984 provides water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB 02...	1023	100	298	7.9	14.0	8.9	87	200	120	56
JUN 06...	1220	55	428	7.6	26.0	7.0	87	270	190	76
AUG 23...	0915	38	564	7.6	29.5	6.5	86	2100	370	92

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB 02...	0	17	3.3	35	2	5.4	68	11	35	0.20
JUN 06...	0	24	3.9	55	3	7.0	98	14	51	0.40
AUG 23...	0	30	4.1	80	4	7.8	140	20	71	0.40

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB 02...	11	173	2.57	2.57	0.030	2.60	2.60	0.110	3.8	1.1
JUN 06...	14	247	3.43	3.43	0.070	3.50	3.50	0.150	4.7	1.0
AUG 23...	15	337	3.75	3.75	0.150	3.90	3.90	0.700	5.5	0.90

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB 02...	0.89	1.0	1.2	0.680	0.530	0.560	1.7	17	620	43
JUN 06...	0.85	1.0	1.2	1.00	0.990	1.00	3.1	12	270	34
AUG 23...	0.80	1.5	1.6	1.60	1.50	1.30	4.0	9.9	51	7

08070000 EAST FORK SAN JACINTO RIVER NEAR CLEVELAND, TX

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

DRAINAGE AREA.--325 mi².

PERIOD OF RECORD.--April 1939 to current year.
Water-quality records.--Chemical analyses: September 1961 to April 1964, January 1968 to September 1989. Biochemical analyses: August 1983 to September 1989. Pesticide analyses: January to August 1984.

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

REMARKS.--No estimated daily discharges. Records good. There are no large diversions above station. Rain gage at station. Satellite telemeter at station.

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

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	0300	63,000	24.57	Jan. 28	0300	12,400	18.59
Dec. 18	2200	5,410	16.59	Mar. 15	2400	4,170	15.75
Jan. 19	2400	9,160	17.81	Apr. 12	2200	3,020	14.73

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	165	73	927	442	1070	225	105	1780	361	704	34
2	20	155	76	393	356	826	188	99	1700	130	913	33
3	20	149	206	252	309	493	161	94	1350	86	894	31
4	20	147	236	208	267	523	379	94	396	65	386	30
5	19	179	158	188	239	594	1260	93	146	84	167	29
6	19	232	133	177	220	471	1870	89	112	211	225	29
7	20	204	118	172	211	443	1910	87	92	107	131	28
8	36	174	150	174	211	729	2100	179	81	68	92	28
9	58	152	263	168	201	1040	1520	732	73	58	78	27
10	39	131	204	154	203	1170	413	887	67	49	70	28
11	34	119	456	148	200	677	1120	484	108	44	84	28
12	32	115	542	146	196	283	2390	210	168	42	65	27
13	29	111	317	658	185	656	2120	141	125	40	60	28
14	27	106	188	1340	184	1620	591	121	87	39	56	27
15	35	105	170	1690	184	3120	246	109	69	39	53	27
16	164	104	220	1520	198	3730	202	98	59	80	70	26
17	12500	99	866	571	198	2040	181	89	54	52	72	26
18	44200	100	3380	697	208	584	165	91	50	61	63	26
19	16700	102	4320	4600	195	357	165	96	47	209	52	25
20	7780	112	2110	7220	185	277	171	82	45	104	47	26
21	4390	107	467	4150	183	235	195	76	44	79	43	28
22	2780	102	283	1970	186	210	400	72	44	53	52	33
23	845	94	229	912	167	193	366	70	43	44	57	67
24	434	91	197	695	259	182	364	68	41	39	49	114
25	356	91	177	393	262	173	199	66	40	37	44	83
26	280	95	164	613	221	163	152	64	38	35	45	49
27	239	102	153	4310	189	167	132	64	37	34	43	38
28	214	93	161	9920	649	157	122	64	37	33	38	33
29	200	80	492	5080	---	183	116	83	53	33	37	30
30	188	76	970	2990	---	320	111	93	689	49	36	28
31	179	---	1130	985	---	259	---	230	---	763	35	---
TOTAL	91878	3692	18609	53421	6708	22945	19534	4930	7675	3128	4761	1066
MEAN	2964	123	600	1723	240	740	651	159	256	101	154	35.5
MAX	44200	232	4320	9920	649	3730	2390	887	1780	763	913	114
MIN	19	76	73	146	167	157	111	64	37	33	35	25
AC-FT	182200	7320	36910	106000	13310	45510	38750	9780	15220	6200	9440	2110
CFSM	9.12	.38	1.85	5.30	.74	2.28	2.00	.49	.79	.31	.47	.11
IN.	10.52	.42	2.13	6.11	.77	2.63	2.24	.56	.88	.36	.54	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	156	268	258	375	385	268	354	312	270	91.6	53.0	84.6
MAX	2964	3101	1613	1723	1336	748	2302	1473	2023	676	939	894
(WY)	1995	1941	1941	1995	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	157777		238347			
ANNUAL MEAN	432		653		238	
HIGHEST ANNUAL MEAN					733	1941
LOWEST ANNUAL MEAN					22.8	1971
HIGHEST DAILY MEAN	44200	Oct 18	44200	Oct 18	44200	Oct 18 1994
LOWEST DAILY MEAN	18	Jul 27	19	Oct 5	3.0	Aug 23 1956
ANNUAL SEVEN-DAY MINIMUM	18	Jul 27	20	Oct 1	3.2	Aug 19 1956
INSTANTANEOUS PEAK FLOW			63000	Oct 18	63000	Oct 18 1994
INSTANTANEOUS PEAK STAGE			24.57	Oct 18	24.57	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	313000		472800		172300	
ANNUAL RUNOFF (CFSM)	1.33		2.01		.73	
ANNUAL RUNOFF (INCHES)	18.06		27.28		9.94	
10 PERCENT EXCEEDS	494		1120		487	
50 PERCENT EXCEEDS	76		153		49	
90 PERCENT EXCEEDS	22		34		13	

08070200 EAST FORK SAN JACINTO RIVER NEAR NEW CANEY, TX

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

DRAINAGE AREA.--388 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1969-76, 1983-84, May 1984 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 43.98 ft above sea level (Texas Highway Department benchmark).

REMARKS.--Records good. There are no known diversions. The maximum discharge for period of record is from rating curve extended above 6,200 ft³/s on basis of a velocity-area study. Rain gage at station. Radio telemetry at station.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft³/s :

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 19	0600	74,100	33.00	Jan 29	0400	9,370	21.68
Dec. 20	0300	4,540	17.14	Mar. 17	0300	4,040	16.42
Jan. 21	0500	6,610	19.74	Apr. 13	2300	2,650	14.09

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	146	82	1000	1060	719	310	114	513	669	743	53
2	23	137	80	835	480	956	268	108	1490	378	779	56
3	23	130	118	408	349	740	230	103	1570	174	812	57
4	24	127	234	281	284	500	353	102	1210	128	757	51
5	23	140	240	234	244	538	1060	102	448	102	369	47
6	21	184	168	212	214	558	1740	100	202	131	194	47
7	20	222	141	198	199	573	1960	94	158	218	231	46
8	24	196	125	189	192	584	1870	123	134	136	155	46
9	43	167	154	188	189	698	1980	248	122	97	119	45
10	61	143	251	183	181	915	1460	585	113	85	102	43
11	52	127	215	169	181	1020	1270	709	119	76	93	43
12	43	115	406	161	174	591	1390	394	168	70	103	43
13	39	110	462	424	169	919	2230	197	199	65	88	42
14	35	107	299	725	160	1620	2020	147	157	62	80	43
15	36	105	207	1110	157	1860	653	126	120	62	77	41
16	e37	102	353	1390	157	3090	307	115	103	63	72	41
17	e253	102	453	1300	174	3650	243	104	92	98	84	42
18	e7000	99	747	690	169	1980	204	109	85	78	88	41
19	e46600	99	2460	928	177	682	180	100	81	246	81	41
20	e14900	99	4070	3620	168	410	174	98	77	362	72	39
21	7250	109	2130	6140	150	323	186	87	73	179	65	41
22	4830	105	603	4110	148	280	201	78	71	120	63	43
23	e3520	99	348	1980	153	251	351	73	68	88	73	44
24	e1390	93	275	947	146	234	318	71	66	74	78	70
25	e530	92	236	635	273	221	298	70	64	66	70	114
26	336	93	209	448	241	210	189	66	61	62	65	92
27	258	95	190	3140	202	289	152	62	59	59	65	66
28	214	99	188	5330	288	240	135	62	58	56	107	56
29	189	97	492	8060	---	220	125	65	59	53	63	50
30	171	86	615	5030	---	351	120	89	173	54	56	46
31	157	---	868	2980	---	376	---	113	---	342	59	---
TOTAL	88126	3625	17419	53045	6679	25598	21977	4614	7913	4453	5863	1529
MEAN	2843	121	562	1711	239	826	733	149	264	144	189	51.0
MAX	46600	222	4070	8060	1060	3650	2230	709	1570	669	812	114
MIN	20	86	80	161	146	210	120	62	58	53	56	39
AC-FT	174800	7190	34550	105200	13250	50770	43590	9150	15700	8830	11630	3030
CFSM	7.33	.31	1.45	4.41	.61	2.13	1.89	.38	.68	.37	.49	.13
IN.	8.45	.35	1.67	5.09	.64	2.45	2.11	.44	.76	.43	.56	.15

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

MEAN	327	182	356	576	541	509	371	374	427	176	49.3	47.2
MAX	2843	626	828	1711	1557	981	958	1330	1596	849	189	105
(WY)	1995	1986	1987	1995	1992	1992	1991	1989	1986	1989	1995	1986
MIN	15.7	20.6	31.2	99.5	191	84.0	68.8	45.7	29.6	27.7	20.8	17.6
(WY)	1989	1991	1990	1986	1988	1986	1986	1988	1988	1988	1990	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	160007		240841			
ANNUAL MEAN	438		660		329	
HIGHEST ANNUAL MEAN					660	1995
LOWEST ANNUAL MEAN					139	1988
HIGHEST DAILY MEAN	46600	Oct 19	46600	Oct 19	46600	Oct 19 1994
LOWEST DAILY MEAN	20	Oct 7	20	Oct 7	9.8	Nov 1 1990
ANNUAL SEVEN-DAY MINIMUM	23	Oct 1	23	Oct 1	10	Oct 29 1990
INSTANTANEOUS PEAK FLOW			74100	Oct 19	74100	Oct 19 1994
INSTANTANEOUS PEAK STAGE			33.00	Oct 19	33.00	Oct 19 1994
ANNUAL RUNOFF (AC-FT)	317400		477700		238600	
ANNUAL RUNOFF (CFSM)	1.13		1.70		.85	
ANNUAL RUNOFF (INCHES)	15.34		23.09		11.53	
10 PERCENT EXCEEDS	529		1280		840	
50 PERCENT EXCEEDS	97		158		89	
90 PERCENT EXCEEDS	30		52		25	

e Estimated

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: August 1983 to current year. Pesticide analyses: August 1985 to September 1990.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1984 to current year.
WATER TEMPERATURE: June 1984 to current year.

INSTRUMENTATION.--Beginning June 1984, specific conductance and water temperature are recorded continuously at this station. Since June 1984, a stage-activated water sampler provides water-quality samples over selected runoff events.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument. Where maximum or minimum specific conductance values are not shown, mean value is estimated. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the Geological Survey District office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 870 microsiemens May 7, 1985; minimum, 19 microsiemens November 17, 1992.
WATER TEMPERATURE: Maximum, 32.0°C several days in Jul.; minimum, 1.0 °C Dec. 24, 1989.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 273 microsiemens Sept. 30; minimum, 26 microsiemens Apr. 14.
WATER TEMPERATURE: Maximum, 31.5°C Jul. 28; minimum, 9.0°C Jan. 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB										
03...	1120	353	141	6.9	15.0	9.5	94	140	150	37
MAR										
16...	0800	2660	--	--	--	--	--	--	--	--
17...	0400	4000	--	--	--	--	--	--	--	--
17...	2000	3230	--	--	--	--	--	--	--	--
18...	0400	2630	--	--	--	--	--	--	--	--
JUN										
07...	0840	160	150	6.7	25.0	6.2	76	120	170	39
AUG										
24...	0944	86	194	6.9	27.5	7.5	95	210	300	46

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB										
03...	9	12	1.6	11	0.8	1.3	28	4.5	20	<0.10
MAR										
16...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	9	13	1.7	12	0.8	1.8	30	4.6	22	0.20
AUG										
24...	13	15	2.1	19	1	1.6	33	4.3	35	<0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB										
03...	12	80	0.080	0.080	0.010	0.090	0.090	0.020	0.49	0.38
MAR										
16...	--	--	0.130	0.130	0.020	0.150	0.150	0.080	--	--
17...	--	--	--	--	0.030	--	<0.050	0.160	--	--
17...	--	--	--	--	0.020	--	<0.050	0.060	--	--
18...	--	--	--	--	0.020	--	<0.050	0.050	--	--
JUN										
07...	13	88	0.110	--	<0.010	0.110	0.110	0.040	0.51	0.36
AUG										
24...	14	112	0.240	--	<0.010	0.240	0.240	<0.015	0.54	0.30

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
03...	0.38	0.40	0.40	0.030	0.030	0.020	0.06	11	450	51
MAR										
16...	2.5	2.6	--	--	0.230	0.210	0.64	--	--	--
17...	0.94	1.1	--	--	0.050	0.040	0.12	--	--	--
17...	1.0	1.1	--	--	0.060	0.020	0.06	--	--	--
18...	0.55	0.60	--	--	0.040	0.020	0.06	--	--	--
JUN										
07...	0.46	0.50	0.40	0.100	0.040	0.030	0.09	12	570	60
AUG										
24...	--	0.20	0.30	0.070	0.020	0.020	0.06	6.6	190	34

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	182	176	177	---	---	---
2	---	---	---	---	---	---	181	175	177	---	---	---
3	---	---	---	---	---	---	180	170	176	---	---	---
4	---	---	---	---	---	---	192	164	179	147	140	142
5	---	---	---	---	---	---	169	139	152	158	147	153
6	---	---	---	---	---	---	151	139	143	167	158	163
7	---	---	---	---	---	---	183	151	172	177	167	172
8	---	---	---	---	---	---	189	179	181	184	177	181
9	---	---	---	---	---	---	229	189	205	189	183	185
10	---	---	---	---	---	---	230	217	222	214	189	204
11	---	---	---	---	---	---	242	214	232	215	203	208
12	---	---	---	---	---	---	226	187	207	217	192	209
13	---	---	---	---	---	---	187	164	174	192	121	141
14	---	---	---	193	190	192	194	181	190	131	110	120
15	---	---	---	197	190	194	187	178	182	113	77	96
16	---	---	---	200	196	199	178	105	149	---	---	---
17	---	---	---	202	198	200	130	100	114	---	---	---
18	---	---	---	198	195	197	163	105	131	---	---	---
19	---	---	---	200	196	199	105	51	67	---	---	---
20	---	---	---	200	198	199	71	57	65	---	---	---
21	---	---	---	205	199	202	60	49	56	---	---	---
22	---	---	---	199	193	196	60	44	53	---	---	---
23	---	---	---	195	188	192	78	57	66	---	---	---
24	---	---	---	188	174	179	83	56	68	---	---	---
25	---	---	---	179	176	178	65	57	59	---	---	---
26	---	---	---	186	179	183	175	64	126	---	---	---
27	---	---	---	184	182	183	183	175	180	---	---	---
28	---	---	---	189	183	186	183	182	183	---	---	---
29	---	---	---	187	183	185	---	---	---	---	---	---
30	---	---	---	187	182	186	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	205	174	191	242	44	146	217	77	164

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	144	102	120	175	153	160	190	169	182
2	---	---	---	127	111	118	204	175	187	196	186	193
3	---	---	---	144	127	140	231	202	210	186	179	181
4	---	---	---	140	125	134	231	107	199	187	180	183
5	---	---	---	140	125	132	107	83	87	188	185	186
6	---	---	---	146	135	139	100	78	90	188	183	187
7	---	---	---	146	113	130	90	78	83	183	181	181
8	---	---	---	129	114	124	92	88	90	185	163	176
9	---	---	---	148	123	135	90	85	87	163	123	144
10	---	---	---	127	105	113	98	85	91	147	120	136
11	---	---	---	105	97	99	92	67	75	147	116	127
12	---	---	---	117	97	106	85	68	77	150	147	148
13	---	---	---	124	51	91	68	61	64	147	146	146
14	---	---	---	73	52	66	64	26	34	150	146	148
15	---	---	---	75	67	72	37	29	33	156	150	154
16	---	---	---	75	70	73	45	37	41	164	155	160
17	---	---	---	71	67	69	49	45	47	171	164	166
18	---	---	---	91	71	79	53	48	51	171	149	162
19	---	---	---	120	91	106	61	52	57	177	166	171
20	---	---	---	134	120	127	70	61	65	193	177	183
21	208	206	208	146	134	139	73	69	70	187	176	178
22	206	199	201	156	146	151	78	73	76	179	176	178
23	199	196	198	163	156	160	85	78	82	176	171	172
24	207	196	202	170	163	167	85	77	82	182	173	177
25	204	137	176	176	170	174	83	77	80	190	182	186
26	149	138	141	182	176	180	89	82	85	200	187	195
27	179	149	163	182	119	151	164	89	100	200	196	198
28	175	144	156	168	125	146	180	162	173	203	196	198
29	---	---	---	187	168	179	179	165	171	205	200	202
30	---	---	---	169	146	154	172	163	167	203	180	191
31	---	---	---	163	155	160	---	---	---	190	163	183
MONTH	208	137	181	187	51	127	231	26	97	205	116	173

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	163	87	118	141	65	84	83	58	65	201	195	198
2	94	43	70	100	72	84	79	59	72	202	195	198
3	81	72	79	128	100	115	101	78	92	221	198	207
4	102	81	89	142	128	135	91	86	88	253	221	240
5	126	102	113	150	134	142	109	91	101	258	181	213
6	141	126	135	205	149	178	123	109	114	254	186	210
7	151	141	147	217	116	172	132	119	127	271	248	263
8	160	151	156	153	124	138	153	104	124	263	248	254
9	169	157	162	158	127	142	152	125	136	258	231	252
10	173	167	170	176	158	165	161	139	146	234	201	216
11	172	164	168	179	155	164	150	146	148	226	218	221
12	171	164	167	188	162	168	166	148	153	219	213	215
13	166	131	152	172	162	166	172	153	161	217	213	215
14	147	124	136	185	172	178	156	151	154	214	211	213
15	185	147	158	213	183	189	209	151	155	215	208	211
16	193	185	191	213	194	199	169	154	162	218	208	216
17	196	189	193	209	195	200	174	168	171	218	211	214
18	194	186	191	197	170	192	200	169	174	215	199	209
19	190	182	185	170	60	130	223	163	188	199	176	187
20	192	188	190	88	60	77	181	167	175	181	177	179
21	193	190	192	90	76	83	192	181	186	206	174	182
22	195	191	192	105	90	97	198	192	196	189	173	177
23	199	195	197	115	105	110	207	198	203	173	170	171
24	201	199	200	132	115	123	211	196	206	180	171	173
25	203	199	201	152	132	140	203	189	194	187	150	163
26	202	200	201	171	152	163	208	180	191	229	138	177
27	203	199	201	176	171	174	203	156	188	147	120	132
28	202	199	200	182	175	178	163	129	142	201	125	170
29	201	189	196	182	178	180	197	126	157	241	201	227
30	197	134	165	184	178	182	213	149	177	273	232	259
31	---	---	---	178	74	108	213	195	209	---	---	---
MONTH	203	43	164	217	60	147	223	58	153	273	120	205
YEAR	273	26	155									

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	16.5	14.0	15.0	---	---	---
2	---	---	---	---	---	---	15.0	14.0	14.5	---	---	---
3	---	---	---	---	---	---	16.0	14.5	15.0	---	---	---
4	---	---	---	---	---	---	16.5	15.0	16.0	9.5	9.0	9.5
5	---	---	---	---	---	---	17.0	16.0	16.5	10.0	9.5	9.5
6	---	---	---	---	---	---	18.0	16.5	17.0	11.0	9.5	10.0
7	---	---	---	---	---	---	19.0	17.5	18.5	11.5	10.0	10.5
8	---	---	---	---	---	---	20.5	19.0	19.5	12.0	10.0	11.0
9	---	---	---	---	---	---	20.0	19.0	19.5	13.0	11.0	12.0
10	---	---	---	---	---	---	20.5	16.5	18.0	15.0	12.5	13.5
11	---	---	---	---	---	---	16.5	14.5	15.5	17.0	14.5	15.5
12	---	---	---	---	---	---	14.5	12.5	13.0	18.0	16.5	17.5
13	---	---	---	---	---	---	12.5	12.0	12.0	17.5	17.0	17.5
14	---	---	---	18.5	18.0	18.0	13.0	12.0	12.5	17.0	15.5	16.5
15	---	---	---	20.0	18.5	19.0	14.5	13.0	13.5	15.5	15.0	15.0
16	---	---	---	19.5	19.0	19.0	17.5	14.5	16.0	15.0	14.0	14.5
17	---	---	---	19.0	18.5	19.0	17.5	16.5	17.0	15.0	14.5	14.5
18	---	---	---	19.5	18.5	19.0	16.5	15.5	16.0	16.5	15.0	16.0
19	---	---	---	20.0	19.0	19.5	16.0	14.5	15.0	16.0	15.0	15.5
20	---	---	---	20.5	19.0	19.5	14.5	14.5	14.5	15.0	14.0	14.5
21	---	---	---	20.0	18.0	19.0	15.0	14.5	15.0	14.0	13.5	13.5
22	---	---	---	19.0	17.5	18.5	15.0	14.0	14.5	13.5	13.0	13.5
23	---	---	---	18.5	16.5	17.0	14.5	13.5	14.0	13.5	12.5	13.0
24	---	---	---	16.5	16.0	16.0	14.0	13.0	13.5	12.5	12.0	12.5
25	---	---	---	16.5	15.5	16.0	13.0	12.0	12.5	13.0	12.5	13.0
26	---	---	---	18.0	16.0	16.5	12.5	11.5	12.0	15.5	13.0	14.0
27	---	---	---	19.5	17.5	18.5	12.5	11.0	12.0	18.0	15.5	17.0
28	---	---	---	21.0	18.0	19.0	11.5	11.0	11.0	18.0	17.0	17.5
29	---	---	---	18.5	17.5	18.0	---	---	---	17.0	15.5	16.5
30	---	---	---	18.0	16.0	17.0	---	---	---	15.5	14.0	15.0
31	---	---	---	---	---	---	---	---	---	14.0	13.5	13.5
MONTH	---	---	---	21.0	15.5	18.0	20.5	11.0	15.0	18.0	9.0	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.0	13.0	13.5	17.0	16.0	16.5	17.5	16.0	16.5	23.0	21.5	22.5
2	14.5	13.5	14.0	16.0	14.0	15.0	18.0	16.0	17.0	23.5	21.0	22.0
3	15.0	13.5	14.0	14.0	12.5	13.5	18.0	16.5	17.0	22.0	21.0	21.5
4	14.0	13.0	13.5	12.5	12.0	12.0	17.5	17.0	17.5	23.5	21.0	22.0
5	14.0	12.5	13.0	12.5	12.0	12.0	17.0	17.0	17.0	24.0	21.5	22.5
6	14.0	12.5	13.0	14.5	12.5	13.5	17.0	16.5	17.0	25.0	22.5	23.5
7	13.5	12.5	13.0	15.5	14.5	15.0	18.0	17.0	17.5	24.5	23.5	24.0
8	12.5	11.5	12.0	14.5	13.0	13.5	19.0	18.0	18.5	24.0	22.5	23.5
9	12.0	11.0	11.5	13.0	12.5	13.0	20.5	19.0	20.0	23.5	21.5	22.0
10	13.5	12.0	12.5	12.5	11.5	12.0	21.0	20.5	21.0	22.5	22.0	22.0
11	14.5	13.0	14.0	13.0	12.0	12.0	20.5	18.5	19.0	22.5	22.0	22.5
12	13.5	12.0	12.5	14.5	13.0	14.0	18.5	18.0	18.0	23.5	22.0	22.5
13	12.0	11.0	11.5	16.0	14.5	15.5	18.5	17.5	18.0	24.5	22.5	23.5
14	11.5	11.0	11.0	17.0	15.5	16.0	18.5	18.0	18.0	26.0	23.5	24.5
15	12.5	11.5	12.0	16.5	16.0	16.5	19.0	18.5	19.0	27.0	24.5	25.5
16	13.5	12.5	13.0	16.5	16.0	16.5	20.5	19.0	19.5	27.5	25.0	26.0
17	13.5	13.0	13.5	17.5	16.5	17.0	21.5	20.0	20.5	27.0	25.5	26.5
18	14.5	12.5	13.5	18.0	17.0	17.5	22.0	21.0	21.5	27.0	25.5	26.0
19	15.0	13.5	14.0	19.0	17.5	18.0	23.0	21.5	22.0	26.0	23.5	25.0
20	16.0	13.5	14.5	19.5	18.0	18.5	22.5	21.5	22.0	25.5	22.5	24.0
21	16.0	14.0	15.0	20.5	19.0	19.5	23.0	20.5	21.5	25.5	22.0	24.0
22	15.5	14.0	15.0	22.0	20.0	21.0	22.0	21.0	21.5	25.5	22.0	24.0
23	16.5	15.0	15.5	22.5	21.0	21.5	21.5	19.0	20.5	26.0	23.0	24.5
24	17.0	15.5	16.0	22.0	21.5	22.0	20.0	18.0	19.0	26.5	24.0	25.0
25	16.5	15.5	16.0	22.5	21.5	22.0	19.5	18.0	18.5	27.0	23.5	25.5
26	16.5	15.5	16.0	22.5	21.5	22.0	20.0	17.5	18.5	27.0	24.0	25.5
27	17.5	16.0	17.0	22.0	20.5	21.5	20.0	18.0	19.0	27.0	24.5	25.5
28	17.5	17.0	17.5	20.5	19.5	20.5	21.5	19.0	20.0	27.5	25.0	26.0
29	---	---	---	19.5	17.0	18.5	22.0	19.5	20.5	26.0	24.5	25.0
30	---	---	---	17.0	16.0	16.5	23.5	20.5	22.0	25.0	24.0	24.5
31	---	---	---	17.0	16.5	16.5	---	---	---	25.5	23.5	24.5
MONTH	17.5	11.0	14.0	22.5	11.5	16.5	23.5	16.0	19.5	27.5	21.0	24.0

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.5	22.0	23.0	24.0	23.5	23.5	26.0	25.5	25.5	29.0	26.5	28.0
2	23.5	22.0	23.0	26.0	24.0	24.5	26.0	25.5	26.0	29.0	26.5	28.0
3	24.5	23.5	24.0	27.5	25.0	26.0	26.5	26.0	26.0	29.5	27.0	28.0
4	25.0	24.5	25.0	27.5	25.5	26.5	27.0	26.0	26.5	29.5	27.0	28.0
5	26.0	24.5	25.5	27.5	26.0	26.5	28.5	26.5	27.5	28.5	27.0	27.5
6	27.0	24.5	25.5	28.0	25.5	26.5	28.5	26.5	27.5	28.5	26.0	27.0
7	27.5	25.0	26.0	27.5	25.5	26.5	27.5	27.0	27.5	28.0	25.5	27.0
8	27.5	25.5	26.5	28.5	25.5	27.0	29.0	26.5	27.5	28.0	25.5	27.0
9	28.5	26.0	27.5	29.5	26.0	27.5	29.0	26.5	27.5	28.0	25.5	27.0
10	29.0	26.5	27.5	30.0	26.5	28.0	29.5	27.0	28.0	28.0	25.5	26.5
11	27.5	26.0	27.0	30.0	27.0	28.5	29.5	27.0	28.0	27.5	25.0	26.5
12	26.5	24.5	25.5	30.5	27.5	29.0	29.5	27.0	28.0	27.5	25.5	26.5
13	25.5	23.5	24.5	30.0	28.0	29.0	29.0	27.0	28.0	28.0	25.5	26.5
14	25.5	23.0	24.0	30.0	27.0	28.5	28.0	27.0	27.5	28.5	26.0	27.0
15	25.5	23.0	24.0	28.5	27.0	27.5	29.0	26.5	27.5	28.0	26.0	27.0
16	26.0	23.0	24.5	28.0	26.5	27.5	29.0	26.0	27.5	28.5	26.0	27.0
17	27.0	23.5	25.0	29.0	26.0	27.5	29.5	26.5	28.0	28.5	26.5	27.5
18	26.5	24.0	25.5	30.0	26.5	28.0	29.0	27.0	28.0	27.5	26.0	26.5
19	27.5	24.5	26.0	28.5	25.5	27.0	29.5	26.5	28.0	28.5	26.0	27.0
20	27.5	24.5	26.0	27.5	25.5	26.5	29.5	26.5	28.0	28.5	26.5	27.5
21	27.5	24.5	26.0	29.0	26.5	27.5	29.5	27.0	28.5	27.5	26.0	26.5
22	28.0	25.0	26.5	30.0	27.0	28.5	29.5	27.0	28.0	26.0	22.5	24.0
23	28.5	25.5	27.0	30.5	27.5	28.5	29.5	27.0	28.0	23.5	21.0	22.5
24	29.0	26.0	27.5	30.5	27.5	29.0	29.5	27.0	28.0	23.0	20.5	22.0
25	29.0	26.5	27.5	30.5	27.5	29.0	29.5	27.0	28.0	23.0	20.5	21.5
26	29.0	25.5	27.5	30.5	28.0	29.0	29.5	27.0	28.5	23.5	21.0	22.0
27	29.0	26.0	27.5	31.0	28.0	29.5	30.0	27.0	28.5	24.5	21.5	23.0
28	28.0	26.0	27.0	31.5	28.0	29.5	29.0	26.5	27.5	24.5	22.0	23.5
29	26.5	25.0	25.5	30.0	27.5	28.5	29.0	26.0	27.5	25.0	22.5	23.5
30	25.0	23.5	24.5	28.0	26.5	27.0	29.5	27.5	28.0	25.0	23.0	24.0
31	---	---	---	26.5	25.5	26.0	28.5	26.5	27.5	---	---	---
MONTH	29.0	22.0	25.5	31.5	23.5	27.5	30.0	25.5	27.5	29.5	20.5	26.0
YEAR	31.5	9.0	21.0									

08070500 CANEY CREEK NEAR SPLENDORA, TX

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

DRAINAGE AREA.--105 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1732: Drainage area.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. No diversions above station. Minimum discharge for period of record was caused by construction upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, 27.0 ft in November 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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	Unknown	36,000	a26.40	Jan. 28	1200	3,290	16.54
Jan. 19	0500	2,460	14.79	Mar. 14	2000	2,500	14.89
Jan. 19	1300	4,750	18.90	Apr. 5	2400	1,520	12.10
Jan. 27	1600	7,750	21.16				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	60	40	76	130	219	80	51	467	65	e200	28
2	18	57	43	64	114	101	70	50	555	48	e210	28
3	17	57	107	58	105	102	65	50	89	40	e219	28
4	17	57	81	55	94	123	259	51	59	38	e205	28
5	17	91	54	52	87	109	1030	50	43	44	e102	30
6	17	127	46	51	84	92	1130	47	37	55	e56	30
7	17	75	45	55	81	119	638	46	34	42	e66	30
8	33	61	53	50	84	294	166	140	34	37	e54	29
9	56	56	68	49	79	110	110	288	32	35	e51	29
10	34	53	64	49	78	79	106	100	31	32	e44	29
11	26	50	203	49	78	70	373	71	50	31	e41	29
12	23	47	74	50	75	66	205	60	68	31	e39	31
13	21	47	56	360	70	373	101	52	40	30	e39	93
14	21	47	53	653	71	1780	79	53	33	29	e35	52
15	22	47	58	119	72	818	71	51	30	29	72	36
16	40	47	119	76	82	192	69	48	29	29	50	31
17	e8610	57	981	62	79	136	66	46	27	28	39	29
18	e10600	48	227	562	69	105	62	49	27	29	33	29
19	4660	48	86	2900	67	87	64	48	26	43	31	30
20	1680	49	66	748	66	79	63	45	26	51	31	28
21	311	46	62	195	63	74	94	45	26	51	31	29
22	289	41	57	138	61	69	94	46	26	39	44	36
23	437	37	52	236	59	65	110	37	25	31	41	38
24	195	37	49	147	58	62	81	36	24	29	36	33
25	123	41	47	102	60	61	57	37	24	27	35	29
26	102	43	47	386	60	62	54	38	23	26	35	27
27	74	43	47	4890	60	70	50	38	23	26	34	27
28	71	44	50	2340	242	64	48	37	29	27	32	27
29	70	42	273	440	---	73	47	37	61	27	31	26
30	66	41	258	242	---	136	49	41	102	30	32	26
31	62	---	97	160	---	95	---	54	---	e92	31	---
TOTAL	27746	1596	3563	15414	2328	5885	5491	1842	2100	1171	1999	975
MEAN	895	53.2	115	497	83.1	190	183	59.4	70.0	37.8	64.5	32.5
MAX	10600	127	981	4890	242	1780	1130	288	555	92	219	93
MIN	17	37	40	49	58	61	47	36	23	26	31	26
AC-FT	55030	3170	7070	30570	4620	11670	10890	3650	4170	2320	3970	1930
CFSM	8.52	.51	1.09	4.74	.79	1.81	1.74	.57	.67	.36	.61	.31
IN.	9.83	.57	1.26	5.46	.82	2.08	1.95	.65	.74	.41	.71	.35

08070500 CANEY CREEK NEAR SPLENDORA, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	64.8	74.4	81.6	121	119	87.0	111	104	96.5	39.2	28.0	37.7
MAX	895	817	277	497	368	245	606	542	843	190	262	296
(WY)	1995	1947	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	51215		70110			
ANNUAL MEAN	140		192		80.0	
HIGHEST ANNUAL MEAN					192	1995
LOWEST ANNUAL MEAN					15.9	1971
HIGHEST DAILY MEAN	10600	Oct 18	10600	Oct 18	11100	Jun 14 1973
LOWEST DAILY MEAN	15	Aug 18	17	Oct 1	5.4	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	15	Aug 15	17	Oct 1	5.5	Sep 21 1956
INSTANTANEOUS PEAK FLOW			36000	Oct 17	36000	Oct 17 1994
INSTANTANEOUS PEAK STAGE			a26.40	Oct 17	26.40	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	101600		139100		57970	
ANNUAL RUNOFF (CFSM)	1.34		1.83		.76	
ANNUAL RUNOFF (INCHES)	18.14		24.84		10.35	
10 PERCENT EXCEEDS	121		219		114	
50 PERCENT EXCEEDS	42		53		27	
90 PERCENT EXCEEDS	18		28		11	

e Estimated
a From floodmark.

08070500 CANEY CREEK NEAR SPLENDORA, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Chemical analyses: October 1962 to April 1964. Chemical and biochemical analyses: August 1983 to current year. Pesticide analyses: August 1983 to September 1990. Sediment analyses: February 1966, April 1973 to March 1975.

INSTRUMENTATION.--Stage-activated water sampler since November 1984 provides water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB										
02...	1406	114	129	6.9	14.5	9.1	89	120	20	40
MAR										
13...	1430	579	--	--	--	--	--	--	--	--
14...	0230	963	--	--	--	--	--	--	--	--
14...	1030	1690	--	--	--	--	--	--	--	--
14...	1830	2450	--	--	--	--	--	--	--	--
JUN										
06...	0843	38	116	6.6	23.0	7.6	90	190	500	37
AUG										
23...	1238	39	99	7.3	27.5	7.9	100	150	480	29

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB										
02...	6	13	1.8	8.4	0.6	1.3	34	4.2	14	<0.10
MAR										
13...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	8	12	1.6	7.5	0.5	1.3	29	3.2	14	0.20
AUG										
23...	6	9.1	1.6	7.4	0.6	1.5	23	3.3	14	<0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB										
02...	13	78	0.200	--	<0.010	0.200	0.200	0.020	0.50	0.28
MAR										
13...	--	--	0.090	0.090	0.020	0.110	0.110	0.070	--	--
14...	--	--	0.050	0.050	0.020	0.070	0.070	0.090	--	--
14...	--	--	0.050	0.050	0.020	0.070	0.070	0.090	--	--
14...	--	--	0.070	0.070	0.020	0.090	0.090	0.070	--	--
JUN										
06...	12	71	0.270	--	<0.010	0.270	0.270	0.030	0.77	0.47
AUG										
23...	12	65	0.230	--	<0.010	0.230	0.230	<0.015	0.53	0.30

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
02...	0.18	0.20	0.30	0.020	0.020	0.020	0.06	7.7	500	83
MAR										
13...	0.43	0.50	--	--	0.050	0.040	0.12	--	--	--
14...	0.51	0.60	--	--	0.060	0.040	0.12	--	--	--
14...	1.3	1.4	--	--	0.050	0.030	0.09	--	--	--
14...	1.2	1.3	--	--	0.030	0.020	0.06	--	--	--
JUN										
06...	0.27	0.30	0.50	0.040	0.010	0.010	0.03	6.3	580	49
AUG										
23...	--	0.30	0.30	0.050	0.030	0.020	0.06	6.6	730	36

08071280 LUCE BAYOU ABOVE LAKE HOUSTON NEAR HUFFMAN, TX

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

DRAINAGE AREA.--218 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, at site 2.2 mi downstream, water years, 1970, 1972, 1975; February to April 1984 (discharge measurements only), May 1984 to current year.

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

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. There are diversions above station for irrigation, but amounts are unknown. Rain gage at station. Radio telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	2400	25,900	35.08	Apr. 7	2300	2,070	22.24
Jan. 29	1300	4,480	24.81	Apr. 11	0900	1,590	21.41
Mar. 15	2100	2,580	22.91				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	24	3.5	268	1370	401	223	6.9	284	41	370	4.7
2	.00	15	4.0	165	827	426	166	6.1	561	180	653	5.8
3	.00	11	68	113	272	509	111	5.6	685	273	740	5.4
4	.00	8.7	99	95	94	539	222	5.3	701	296	521	4.1
5	.00	40	88	83	64	440	736	4.9	646	169	326	3.5
6	.00	69	70	74	50	361	1120	4.8	302	74	138	3.1
7	.00	45	56	68	40	486	1780	4.4	69	64	76	3.0
8	.00	24	39	60	35	604	1980	35	57	132	59	2.8
9	.00	24	20	52	31	520	1500	70	43	165	43	2.8
10	.19	88	20	44	29	434	1090	130	21	98	28	2.7
11	.25	71	42	35	29	237	1520	108	e11	56	15	2.7
12	.16	51	29	34	26	132	1220	73	e7.5	23	9.5	2.7
13	.21	24	17	187	22	509	1050	44	e6.1	11	18	2.5
14	.22	12	15	352	19	1550	1010	18	e5.4	8.0	14	2.5
15	2.1	9.0	39	366	15	2300	707	10	e5.1	6.6	12	2.5
16	146	7.2	253	357	12	2320	265	7.8	e4.8	5.9	12	2.4
17	4420	6.0	610	200	11	1660	115	6.6	e4.7	5.6	16	2.3
18	22100	5.4	406	245	16	1130	89	59	e4.5	13	10	2.4
19	e23000	5.1	263	566	30	718	76	40	e4.4	78	7.1	2.4
20	e16900	5.1	192	555	36	270	66	12	e4.2	133	6.1	2.7
21	e14100	5.2	142	583	31	142	59	7.7	3.9	214	5.3	4.8
22	e7350	4.9	107	590	26	104	67	6.3	3.6	92	5.0	17
23	e2830	4.3	88	518	21	89	75	5.2	3.5	13	4.9	5.1
24	e875	3.9	74	352	31	78	65	4.5	3.2	6.2	19	3.4
25	e328	5.0	64	174	54	70	50	3.8	3.0	8.5	11	2.7
26	e186	5.3	52	159	127	62	31	3.5	2.7	5.9	6.3	2.5
27	e120	5.0	35	1780	115	64	18	3.3	2.5	4.6	4.6	2.1
28	e87	5.0	36	3700	274	133	12	3.3	2.4	4.1	4.7	1.9
29	72	4.5	172	4420	---	97	9.4	24	3.7	3.5	30	1.7
30	59	3.6	376	3850	---	138	8.1	114	35	10	14	1.4
31	41	---	347	2470	---	209	---	107	---	177	6.5	---
TOTAL	92617.13	591.2	3826.5	22515	3707	16732	15440.5	934.0	3490.2	2370.9	3185.0	105.6
MEAN	2988	19.7	123	726	132	540	515	30.1	116	76.5	103	3.52
MAX	23000	88	610	4420	1370	2320	1980	130	701	296	740	17
MIN	.00	3.6	3.5	34	11	62	8.1	3.3	2.4	3.5	4.6	1.4
AC-FT	183700	1170	7590	44660	7350	33190	30630	1850	6920	4700	6320	209
CFSM	13.7	.09	.57	3.33	.61	2.48	2.36	.14	.53	.35	.47	.02
IN.	15.80	.10	.65	3.84	.63	2.86	2.63	.16	.60	.40	.54	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

MEAN	300	102	228	286	327	374	229	295	482	70.6	12.9	8.38
MAX	2988	490	831	826	980	878	1047	2443	1965	334	103	58.0
(WY)	1995	1987	1987	1992	1992	1993	1991	1989	1993	1987	1995	1986
MIN	.009	.17	1.43	6.22	8.36	25.0	3.06	2.95	2.24	.79	1.09	.034
(WY)	1993	1989	1989	1989	1989	1986	1987	1988	1990	1984	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	117466.57		165515.03			
ANNUAL MEAN	322		453		232	
HIGHEST ANNUAL MEAN					453	1995
LOWEST ANNUAL MEAN					58.7	1994
HIGHEST DAILY MEAN	23000	Oct 19	23000	Oct 19	23000	Oct 19 1994
LOWEST DAILY MEAN	.00	Sep 27	.00	Oct 1	.00	Jul 16 1984
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 27	.00	Oct 1	.00	Jul 16 1984
INSTANTANEOUS PEAK FLOW			25900	Oct 18	25900	Oct 18 1994
INSTANTANEOUS PEAK STAGE			35.08	Oct 18	35.08	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	233000		328300		167700	
ANNUAL RUNOFF (CFSM)	1.48		2.08		1.06	
ANNUAL RUNOFF (INCHES)	20.04		28.24		14.43	
10 PERCENT EXCEEDS	217		649		465	
50 PERCENT EXCEEDS	15		39		11	
90 PERCENT EXCEEDS	.67		2.8		.25	

e Estimated

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical February 1984 to current year. Pesticide analyses: February 1984 to September 1990.

INSTRUMENTATION.--Stage-activated water sampler since May 1984 provides water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB										
03...	1255	207	52	6.1	13.5	8.4	81	310	120	16
JUN										
07...	1010	72	80	6.5	25.0	5.3	65	60	190	24
SEP										
05...	1428	3.5	194	7.1	26.0	4.2	52	60	130	43

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB										
03...	6	4.6	1.1	3.5	0.4	0.90	10	2.2	9.0	<0.10
JUN										
07...	5	7.3	1.3	5.4	0.5	1.1	19	2.9	10	0.20
SEP										
05...	0	14	2.0	22	1	2.0	49	3.6	28	0.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
FEB										
03...	4.3	32	--	--	0.010	--	<0.050	0.020	0.90	0.88
JUN										
07...	5.3	46	0.110	0.110	0.010	0.120	0.120	0.040	1.0	0.86
SEP										
05...	6.4	109	0.070	--	<0.010	0.070	0.070	<0.015	0.57	0.50

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
03...	0.68	0.70	0.90	0.050	0.030	0.020	0.06	22	680	78
JUN										
07...	0.56	0.60	0.90	0.100	0.050	0.020	0.06	20	760	140
SEP										
05...	--	0.40	0.50	0.060	0.060	0.040	0.12	8.4	1200	110

08072000 LAKE HOUSTON NEAR SHELDON, TX

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

DRAINAGE AREA.--2,828 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--April 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.

REMARKS.--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. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Gage height (feet)	Capacity (acre-feet)
Top of dam	63.0	-
Design flood	57.0	-
Crest of spillway	44.5	146,700
Crest of tainter gates (sill)	28.0	22,800
Lowest gated outlet (invert)	22.0	6,180

COOPERATION.--The capacity table, furnished by the city of Houston, is based on a bathymetric survey made in 1994 by TWDB. Records of diversions were furnished by 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 August 1954, 53,380 acre-ft Dec. 1, 1971 (gage height, 34.08 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 249,900 acre-ft Oct. 19 at 1100 hours (gage height, 52.79 ft); minimum, 124,300 acre-ft Nov. 27 (gage height, 43.57 ft).

Capacity table (gage height, in feet, and total contents, in acre-feet)

34.0	46,820	42.0	108,760	50.0	207,880
36.0	59,730	44.0	128,700	51.0	229,930
38.0	74,460	46.0	152,630	52.0	237,980
40.0	90,780	48.0	178,660	53.0	253,030

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134000	144000	124800	145800	140800	151100	144900	136800	149600	145100	147600	140800
2	133900	144300	125500	145000	132500	150500	144100	135700	152000	145200	148300	140400
3	133800	142600	129100	143900	132700	148400	143400	135700	150200	144400	147800	140100
4	133500	142600	131700	142900	139100	146600	148100	136400	149500	144700	146200	139900
5	133100	144100	133100	142100	141900	145300	155800	136800	147400	144900	145000	139500
6	132800	144300	134000	142600	141600	144100	156300	137100	144000	144100	144100	139100
7	132700	144400	134900	142300	142000	145000	155400	137100	141100	144000	144400	138900
8	134700	144300	135200	142200	141100	144000	154600	142800	137700	143700	144000	138400
9	134900	144600	131900	141900	141100	145200	153400	146100	135300	143300	143800	138400
10	135600	143100	129300	141600	141400	146500	151400	146600	136000	143100	143100	137900
11	135600	142900	127200	141500	141500	146500	151600	146200	139500	142600	141900	137200
12	135300	141300	126000	142600	140400	144900	150200	145000	140500	142100	141400	137200
13	135300	141100	125300	147800	141000	152800	147700	144300	141500	142100	140400	138100
14	135200	141100	125100	147400	141000	155300	146200	143700	142100	141700	140100	139200
15	139300	140900	127100	146100	141700	155700	143500	143300	142000	141500	139700	139700
16	143300	138000	138500	145100	142300	156900	140700	142600	142100	141700	140000	140000
17	182600	134400	147700	143900	142100	153500	137500	142100	141900	141400	140300	140900
18	240100	131300	151900	143400	142200	148900	138700	144000	142100	143900	140400	140300
19	240500	128400	152800	145700	142300	144900	138300	143200	142000	145900	140500	140500
20	207600	125500	147700	148800	142300	141400	139300	142700	142000	145500	140500	140500
21	178400	124400	142600	149800	142100	136500	139900	142200	141600	144900	140500	142500
22	162700	125100	141600	147600	141600	134700	141500	141900	141400	143900	140800	142600
23	158800	124500	145300	140900	141600	136300	139700	141400	141100	143200	141300	141700
24	155000	124700	146200	139900	142100	137100	139300	141400	140800	142700	141900	141500
25	151600	124800	145600	140100	143200	137500	139200	141300	140800	142200	142500	141300
26	148900	124400	144300	144500	144500	138000	138900	140900	140100	141900	142200	141100
27	147500	125000	143400	162800	145200	138900	138900	140900	139700	141600	141900	141400
28	146200	124900	144700	164700	151200	139500	138000	141000	140100	141300	141700	141300
29	145500	125200	147200	160100	---	140500	137200	141400	142200	140900	141600	140900
30	145100	125200	147200	153300	---	143400	136500	143500	143800	141900	141400	140900
31	145000	---	146200	146500	---	144700	---	144000	---	143900	141000	---
MAX	240500	144600	152800	164700	151200	156900	156300	146600	152000	145900	148300	142600
MIN	132700	124400	124800	139900	132500	134700	136500	135700	135300	140900	139700	137200
(+)	45.36	43.66	45.46	45.49	45.88	45.34	44.69	45.28	45.26	45.27	45.03	45.02
(@)	+10700	-19800	+21000	+300	+4700	-6500	-8200	+7500	-200	+100	-2900	-100
(++)	9340	14800	17950	18720	12540	8830	10010	11320	9920	10730	10680	11300

CAL YR 1994 MAX 240500 MIN 124400 (@) +4500 (++) 130130
WTR YR 1995 MAX 240500 MIN 124400 (@) +6600 (++) 146180

(+) Gage height, in feet, at end of month.
(@) Change in contents, in acre-feet.
(++) Diversions, in acre-feet, for the municipal and industrial use by the city of Houston and by the San Jancito River Authority.

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: July 1961 to April 1964, December 1969 to current year. Biochemical analyses: August 1983 to current year. Pesticide analyses: May 1968 to August 1972, August 1983 to current year.

295516095080801 - LAKE HOUSTON SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB											
06...	0930	142000	1.00	80	6.9	14.5	0.20	9.7	94	210	190
06...	0932	--	10.0	80	6.9	14.0	--	9.6	92	--	--
06...	0934	--	20.0	80	6.9	14.0	--	9.5	91	--	--
06...	0936	--	30.0	80	6.8	14.0	--	9.3	89	--	--
06...	0938	--	43.0	80	6.8	14.0	--	9.0	86	--	--
APR											
24...	1020	139000	1.00	105	7.0	21.5	0.30	7.9	89	20	K16
24...	1022	--	10.0	105	7.0	21.5	--	7.9	89	--	--
24...	1024	--	20.0	105	7.0	21.5	--	7.9	89	--	--
24...	1026	--	30.0	105	7.1	21.0	--	7.9	88	--	--
24...	1028	--	40.0	105	7.1	21.0	--	8.0	89	--	--
24...	1030	--	45.0	105	7.1	21.0	--	8.0	89	--	--
JUN											
21...	0940	142000	1.00	165	8.3	28.5	0.60	7.4	95	K4	K2
21...	0942	--	10.0	165	8.2	28.5	--	7.3	94	--	--
21...	0944	--	20.0	170	7.3	27.5	--	6.0	76	--	--
21...	0946	--	30.0	170	7.2	27.0	--	5.4	68	--	--
21...	0948	--	44.0	170	7.1	27.0	--	4.6	58	--	--
AUG											
22...	0915	141000	1.00	170	7.9	31.5	0.80	6.7	91	K16	K4
22...	0917	--	10.0	170	7.8	31.0	--	6.6	88	--	--
22...	0919	--	20.0	170	6.7	29.0	--	3.1	40	--	--
22...	0921	--	30.0	170	6.7	28.5	--	2.7	35	--	--
22...	0923	--	40.0	170	6.7	28.0	--	2.7	34	--	--
22...	0925	--	45.0	170	6.7	28.0	--	2.7	34	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB											
06...	25	5	8.2	1.1	4.9	0.4	1.6	20	2.9	9.0	<0.10
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	25	4	8.1	1.1	4.8	0.4	1.6	21	2.9	9.0	<0.10
APR											
24...	33	6	11	1.4	7.1	0.5	1.9	27	3.6	12	<0.10
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	34	6	11	1.5	7.1	0.5	1.9	28	3.6	13	<0.10
JUN											
21...	43	3	14	1.9	14	0.9	2.5	40	6.5	20	0.10
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	44	2	14	2.1	15	1	2.5	42	6.9	23	0.10
AUG											
22...	40	0	13	1.8	18	1	2.4	42	6.2	23	0.10
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	40	0	13	1.8	16	1	2.2	44	4.8	22	<0.10

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

295516095080801 - LAKE HOUSTON SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
FEB											
06...	4.6	45	0.090	--	<0.010	0.090	0.090	0.030	0.89	0.77	0.37
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	4.6	45	0.080	0.080	0.020	0.100	0.100	0.040	0.70	0.56	0.36
APR											
24...	5.2	60	0.220	--	<0.010	0.220	0.220	0.030	0.92	0.67	0.37
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	0.220	--	<0.010	0.220	0.220	0.030	0.92	0.67	0.47
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	5.3	62	0.210	--	<0.010	0.210	0.210	0.030	0.91	0.67	0.47
JUN											
21...	1.3	84	--	--	<0.010	--	<0.050	0.030	0.70	0.67	0.37
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	0.100	--	<0.010	0.100	0.100	0.030	0.70	0.57	0.37
21...	--	--	--	--	--	--	--	--	--	--	--
21...	2.9	93	0.160	0.160	0.010	0.170	0.170	0.090	0.77	0.51	0.51
AUG											
22...	8.0	100	--	--	<0.010	--	<0.050	<0.015	0.50	0.50	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	0.050	--	<0.010	0.050	0.050	0.090	0.65	0.51	0.21
22...	--	--	--	--	--	--	--	--	--	--	--
22...	9.3	100	--	--	<0.010	--	<0.050	0.250	1.0	0.75	0.35

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	IRON, DIS-SOLVED (UG/L AS FE)
FEB											
06...	0.40	0.80	0.070	<0.010	0.020	0.06	14	13	1.10	<0.100	100
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	0.40	0.60	0.050	<0.010	0.020	0.06	15	14	--	--	140
APR											
24...	0.40	0.70	0.060	0.030	0.030	0.09	15	12	0.900	<0.100	98
24...	--	--	--	--	--	--	--	--	--	--	--
24...	0.50	0.70	0.070	0.020	0.030	0.09	--	--	--	--	160
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	0.50	0.70	0.070	0.030	0.030	0.09	15	12	--	--	450
JUN											
21...	0.40	0.70	0.090	0.030	0.010	0.03	10	8.3	8.50	<0.100	48
21...	--	--	--	--	--	--	--	--	--	--	--
21...	0.40	0.60	0.080	0.040	0.040	0.12	--	--	--	--	120
21...	--	--	--	--	--	--	--	--	--	--	--
21...	0.60	0.60	0.130	0.080	0.070	0.21	10	8.1	--	--	440
AUG											
22...	<0.20	0.50	0.130	0.110	0.080	0.25	9.0	7.0	7.70	0.400	14
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0.30	0.60	0.300	0.250	0.250	0.77	--	--	--	--	210
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0.60	1.0	0.660	0.450	0.470	1.4	9.3	7.5	--	--	1000

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

295516095080801 - LAKE HOUSTON SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB										
06...	12	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	16	--	--	--	--	--	--	--	--	--
APR										
24...	8	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.04	<0.010
24...	--	--	--	--	--	--	--	--	--	--
24...	<10	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	18	--	--	--	--	--	--	--	--	--
JUN										
21...	4	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.05	<0.010
21...	--	--	--	--	--	--	--	--	--	--
21...	20	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	150	--	--	--	--	--	--	--	--	--
AUG										
22...	100	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	840	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	1300	--	--	--	--	--	--	--	--	--

DATE	DISYSTON TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN WATER UNFLTRD REC (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

295516095080801 - LAKE HOUSTON SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	PHORATE TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.01	<0.1	<0.01	<0.01	<1	<0.01	0.03	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.01	<0.1	<0.02	<0.01	<1	<0.01	0.04	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

295702095091401 - LAKE HOUSTON SITE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB								
06...	1005	1.00	80	6.8	14.0	0.20	9.9	95
06...	1007	10.0	80	6.8	14.0	--	9.8	94
06...	1009	20.0	80	6.8	14.0	--	9.7	93
06...	1011	30.0	80	6.8	14.0	--	9.6	92
06...	1013	37.0	80	6.8	14.0	--	9.3	89
APR								
24...	1105	1.00	105	7.0	21.5	0.30	7.7	86
24...	1107	10.0	105	7.0	21.5	--	7.7	86
24...	1109	20.0	105	7.0	21.5	--	7.8	87
24...	1111	30.0	105	7.0	21.5	--	7.9	89
24...	1113	39.0	105	7.0	21.5	--	7.9	89
JUN								
21...	1020	1.00	170	7.3	28.0	--	6.1	78
21...	1022	10.0	170	7.2	27.5	--	5.8	73
21...	1024	20.0	170	7.2	27.5	--	5.7	72
21...	1026	30.0	170	7.1	27.0	--	5.2	65
21...	1028	41.0	170	7.1	27.0	--	4.6	57
AUG								
22...	0950	1.00	175	7.7	30.5	0.75	6.6	88
22...	0952	10.0	170	7.2	30.0	--	6.0	79
22...	0954	20.0	170	6.8	29.5	--	3.0	39
22...	0956	30.0	165	6.7	29.0	--	2.7	35
22...	0958	36.0	165	6.7	29.0	--	2.7	35

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

295902095074201 - LAKE HOUSTON SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB										
06...	1020	1.00	110	7.0	14.0	0.20	10.4	99	48	44
06...	1022	10.0	100	7.0	14.0	--	10.3	98	--	--
06...	1024	20.0	100	7.0	14.0	--	10.2	98	--	--
06...	1026	31.0	100	6.9	14.0	--	9.7	93	--	--
APR										
24...	1130	1.00	110	7.1	21.0	0.30	7.9	88	K6	K12
24...	1132	10.0	110	7.1	21.0	--	7.9	88	--	--
24...	1134	20.0	110	7.1	21.0	--	8.0	89	--	--
24...	1136	38.0	115	7.2	21.0	--	8.0	89	--	--
JUN										
21...	1040	1.00	160	8.1	29.0	0.50	7.3	95	K8	K8
21...	1042	10.0	160	7.0	27.5	--	5.2	66	--	--
21...	1044	20.0	160	6.9	27.5	--	3.9	49	--	--
21...	1046	29.0	160	6.9	27.5	--	3.8	48	--	--
AUG										
22...	1015	1.00	175	7.2	30.5	0.50	5.7	76	K10	K2
22...	1017	10.0	170	7.1	30.5	--	5.4	72	--	--
22...	1019	20.0	160	6.7	29.0	--	2.7	35	--	--
22...	1021	29.0	160	6.7	29.0	--	2.7	35	--	--

DATE	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
FEB										
06...	33	7	11	1.3	6.6	0.5	1.8	26	3.7	12
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	30	5	9.9	1.3	6.2	0.5	1.9	25	3.7	11
APR										
24...	34	4	11	1.5	7.8	0.6	1.8	30	4.0	12
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	36	5	12	1.5	8.7	0.6	1.8	31	4.3	14
JUN										
21...	43	2	14	1.9	13	0.9	2.6	41	6.2	19
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	45	5	15	1.9	13	0.8	2.6	40	6.1	20
AUG										
22...	40	0	13	1.8	19	1	2.4	42	6.2	23
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	37	0	12	1.7	16	1	2.3	40	5.1	22

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
FEB										
06...	<0.10	5.0	58	0.160	0.160	0.010	0.170	0.170	0.020	0.38
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	<0.10	5.1	55	0.140	0.140	0.010	0.150	0.150	0.020	0.38
APR										
24...	<0.10	5.1	63	0.190	--	<0.010	0.190	0.190	0.040	0.46
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	<0.10	5.3	67	0.210	--	<0.010	0.210	0.210	0.040	0.46
JUN										
21...	0.10	2.5	84	--	--	<0.010	--	<0.050	0.040	0.36
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	0.10	4.0	88	0.070	0.070	0.020	0.090	0.090	0.150	0.35
AUG										
22...	0.10	8.6	100	--	--	<0.010	--	<0.050	<0.015	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	<0.10	8.9	94	--	--	<0.010	--	<0.050	0.210	0.29

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

295902095074201 - LAKE HOUSTON SITE CC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
06...	0.40	0.020	0.020	0.06	17	13	1.70	0.100	150	8
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	0.40	0.020	0.020	0.06	17	13	--	--	75	12
APR										
24...	0.50	0.020	0.030	0.09	16	12	2.70	<0.100	360	7
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	0.50	0.030	0.030	0.09	14	12	--	--	200	6
JUN										
21...	0.40	0.050	0.030	0.09	11	8.5	6.70	0.300	16	17
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	0.50	0.100	0.060	0.18	10	8.0	--	--	34	210
AUG										
22...	0.30	0.100	0.090	0.28	9.6	7.4	7.80	0.400	13	58
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	0.50	0.270	0.270	0.83	12	8.4	--	--	480	800

300016095073401 - LAKE HOUSTON SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB								
06...	1050	1.00	110	7.1	14.0	0.25	10.4	99
06...	1052	10.0	110	7.1	14.0	--	10.3	98
06...	1054	20.0	110	7.0	13.5	--	10.0	95
06...	1056	27.0	110	7.0	13.5	--	10.0	95
APR								
24...	1204	1.00	105	7.1	21.5	0.25	7.8	87
24...	1206	10.0	105	7.1	21.5	--	7.8	87
24...	1208	21.0	110	7.1	21.5	--	7.8	87
JUN								
21...	1110	1.00	160	7.4	28.5	--	6.6	85
21...	1112	10.0	165	7.1	27.5	--	5.4	68
21...	1114	22.0	165	7.0	27.5	--	3.9	49
AUG								
22...	1045	1.00	180	7.2	31.0	0.50	5.6	75
22...	1047	10.0	175	7.0	30.5	--	4.8	64
22...	1049	20.0	160	6.8	29.5	--	2.8	37
22...	1051	25.0	160	6.7	29.5	--	2.7	35

300158095074601 - LAKE HOUSTON SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB											
06...	1155	1.00	85	6.6	14.0	0.30	10.6	101	40	36	26
06...	1157	10.0	85	6.6	14.0	--	10.5	100	--	--	--
06...	1159	22.0	85	6.6	13.5	--	10.4	98	--	--	27
APR											
24...	1320	1.00	115	7.0	21.5	0.25	7.8	87	K2	K1	34
24...	1322	10.0	115	7.0	21.5	--	7.8	87	--	--	--
24...	1324	21.0	115	7.0	21.0	--	7.8	87	--	--	34
JUN											
21...	1215	1.00	140	6.9	28.0	0.40	5.6	71	K4	K1	34
21...	1217	10.0	140	6.8	27.5	--	4.9	62	--	--	--
21...	1219	21.0	110	6.4	27.0	--	2.7	34	--	--	34
AUG											
22...	1150	1.00	140	6.9	31.0	0.35	5.3	71	K4	K8	34
22...	1152	10.0	145	6.9	30.5	--	5.0	66	--	--	--
22...	1154	20.0	125	6.6	29.5	--	2.7	35	--	--	34

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

300158095074601 - LAKE HOUSTON SITE EC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
FEB											
06...	6	8.4	1.3	6.2	0.5	1.2	20	4.0	11	<0.10	7.5
06...	--	--	--	--	--	--	--	--	--	--	--
06...	6	8.5	1.3	6.2	0.5	1.1	21	4.0	11	<0.10	7.6
APR											
24...	6	11	1.6	8.8	0.7	1.4	28	4.1	15	<0.10	8.1
24...	--	--	--	--	--	--	--	--	--	--	--
24...	5	11	1.6	8.9	0.7	1.4	29	4.1	15	<0.10	8.2
JUN											
21...	3	11	1.7	11	0.8	2.0	31	5.2	17	<0.10	7.0
21...	--	--	--	--	--	--	--	--	--	--	--
21...	4	11	1.7	9.6	0.7	2.0	30	3.9	14	<0.10	7.3
AUG											
22...	0	11	1.6	13	1	1.8	35	4.9	17	<0.10	9.5
22...	--	--	--	--	--	--	--	--	--	--	--
22...	2	11	1.6	12	0.9	1.6	32	4.0	18	<0.10	8.8

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
FEB											
06...	52	0.090	0.090	0.010	0.100	0.100	0.020	0.70	0.58	0.38	0.40
06...	--	--	--	--	--	--	--	--	--	--	--
06...	53	0.090	0.090	0.010	0.100	0.100	0.030	0.70	0.57	0.37	0.40
APR											
24...	68	0.170	--	<0.010	0.170	0.170	0.040	0.97	0.76	0.36	0.40
24...	--	--	--	--	--	--	--	--	--	--	--
24...	69	0.170	--	<0.010	0.170	0.170	0.040	0.87	0.66	0.96	1.0
JUN											
21...	74	--	--	<0.010	--	<0.050	0.050	0.70	0.65	0.35	0.40
21...	--	--	--	--	--	--	--	--	--	--	--
21...	68	--	--	<0.010	--	<0.050	0.150	0.80	0.65	0.35	0.50
AUG											
22...	80	--	--	<0.010	--	<0.050	<0.015	0.70	0.70	--	0.30
22...	--	--	--	--	--	--	--	--	--	--	--
22...	77	--	--	<0.010	--	<0.050	0.120	0.80	0.68	0.38	0.50

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	IRON, DISSOLVED (UG/L AS FE)
FEB										
06...	0.60	0.050	<0.010	<0.010	--	19	12	1.00	<0.100	250
06...	--	--	--	--	--	--	--	--	--	--
06...	0.60	0.040	<0.010	<0.010	--	15	12	--	--	300
APR										
24...	0.80	0.060	<0.010	0.010	0.03	14	11	4.70	0.400	230
24...	--	--	--	--	--	--	--	--	--	--
24...	0.70	0.070	0.040	0.020	0.06	13	10	--	--	240
JUN										
21...	0.70	0.100	0.030	0.020	0.06	11	8.5	6.60	0.400	20
21...	--	--	--	--	--	--	--	--	--	--
21...	0.80	0.090	0.040	0.020	0.06	13	8.9	--	--	67
AUG										
22...	0.70	0.130	0.050	0.040	0.12	12	8.5	5.70	0.400	140
22...	--	--	--	--	--	--	--	--	--	--
22...	0.80	0.160	0.070	0.060	0.18	13	9.8	--	--	110

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

300158095074601 - LAKE HOUSTON SITE EC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB										
06...	52	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	52	--	--	--	--	--	--	--	--	--
APR										
24...	30	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.02	<0.010
24...	--	--	--	--	--	--	--	--	--	--
24...	27	--	--	--	--	--	--	--	--	--
JUN										
21...	270	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.02	<0.010
21...	--	--	--	--	--	--	--	--	--	--
21...	410	--	--	--	--	--	--	--	--	--
AUG										
22...	110	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	640	--	--	--	--	--	--	--	--	--

DATE	DISYSTON TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN WATER UNFLTRD REC (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PHORATE TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.01	<0.1	<0.01	<0.01	<1	<0.01	0.03	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.01	<0.1	<0.02	<0.01	<1	<0.01	0.03	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

300209095091201 - LAKE HOUSTON SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)
FEB											
06...	1110	1.00	170	7.3	14.0	0.25	10.8	103	120	88	53
06...	1112	5.00	170	7.3	14.0	--	10.7	102	--	--	--
06...	1114	12.0	170	7.3	14.0	--	10.5	100	--	--	53
APR											
24...	1245	1.00	295	7.8	20.5	0.20	8.3	91	K12	K4	69
24...	1247	10.0	295	7.7	20.5	--	8.3	91	--	--	--
24...	1249	15.0	295	7.7	20.5	--	8.3	91	--	--	69
JUN											
21...	1135	1.00	235	8.3	29.5	0.37	7.1	93	K2	K1	55
21...	1137	10.0	245	7.1	28.0	--	3.3	42	--	--	--
21...	1139	14.0	275	7.0	28.0	--	2.6	33	--	--	61
AUG											
22...	1110	1.00	300	8.6	31.5	0.35	6.5	88	K2	K18	60
22...	1112	10.0	305	8.5	30.5	--	5.8	77	--	--	--
22...	1114	14.0	310	8.5	30.5	--	5.8	77	--	--	60

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
FEB											
06...	4	18	1.9	13	0.8	2.6	49	6.4	18	0.10	5.8
06...	--	--	--	--	--	--	--	--	--	--	--
06...	5	18	1.9	13	0.8	2.5	48	5.9	18	0.10	5.6
APR											
24...	1	23	2.9	30	2	2.9	68	10	41	0.10	11
24...	--	--	--	--	--	--	--	--	--	--	--
24...	1	23	2.9	30	2	3.0	68	10	42	0.10	11
JUN											
21...	0	18	2.4	26	2	3.8	59	9.5	29	0.10	8.0
21...	--	--	--	--	--	--	--	--	--	--	--
21...	0	20	2.6	29	2	4.0	69	9.9	34	0.20	11
AUG											
22...	0	20	2.5	38	2	3.8	67	11	43	0.20	11
22...	--	--	--	--	--	--	--	--	--	--	--
22...	0	20	2.5	37	2	4.0	69	11	44	0.20	11

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
FEB											
06...	97	0.440	0.440	0.020	0.460	0.460	<0.015	1.1	0.60	--	0.30
06...	--	--	--	--	--	--	--	--	--	--	--
06...	96	0.440	0.440	0.010	0.450	0.450	0.020	1.0	0.58	0.38	0.40
APR											
24...	166	0.850	0.850	0.020	0.870	0.870	<0.015	1.7	0.80	--	0.40
24...	--	--	--	--	--	--	--	--	--	--	--
24...	166	0.700	0.700	0.020	0.720	0.720	0.020	1.6	0.88	0.48	0.50
JUN											
21...	133	0.060	0.060	0.010	0.070	0.070	<0.015	1.2	1.1	--	0.40
21...	--	--	--	--	--	--	--	--	--	--	--
21...	154	0.060	0.060	0.020	0.080	0.080	0.530	1.6	0.97	0.37	0.90
AUG											
22...	171	0.110	0.110	0.020	0.130	0.130	0.040	1.1	0.96	0.36	0.40
22...	--	--	--	--	--	--	--	--	--	--	--
22...	173	0.130	0.130	0.020	0.150	0.150	0.140	1.2	0.96	0.36	0.50

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

300209095091201 - LAKE HOUSTON SITE FC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	IRON, DISSOLVED (UG/L AS FE)
FEB										
06...	0.60	0.080	0.010	0.040	0.12	11	8.1	4.70	0.400	47
06...	--	--	--	--	--	--	--	--	--	--
06...	0.60	0.100	0.030	0.040	0.12	11	8.0	--	--	68
APR										
24...	0.80	0.210	0.120	0.110	0.34	10	7.5	16.0	1.20	8
24...	--	--	--	--	--	--	--	--	--	--
24...	0.90	0.250	0.090	0.090	0.28	11	7.7	--	--	15
JUN										
21...	1.1	0.220	0.090	0.080	0.25	12	7.8	25.0	<0.100	16
21...	--	--	--	--	--	--	--	--	--	--
21...	1.5	0.360	0.160	0.150	0.46	11	7.5	--	--	220
AUG										
22...	1.0	0.340	0.240	0.230	0.71	9.7	6.6	19.0	0.900	3
22...	--	--	--	--	--	--	--	--	--	--
22...	1.1	0.400	0.260	0.250	0.77	12	6.1	--	--	42

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
FEB										
06...	8	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	12	--	--	--	--	--	--	--	--	--
APR										
24...	12	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.03	<0.010
24...	--	--	--	--	--	--	--	--	--	--
24...	20	--	--	--	--	--	--	--	--	--
JUN										
21...	65	<0.1	<0.10	<0.010	<0.1	<0.010	<0.010	<0.010	0.05	<0.010
21...	--	--	--	--	--	--	--	--	--	--
21...	580	--	--	--	--	--	--	--	--	--
AUG										
22...	6	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	16	--	--	--	--	--	--	--	--	--

DATE	DISYSTON TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN WATER UNFLTRD REC (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	0.010	<0.01	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.010	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

08072000 LAKE HOUSTON NEAR SHELDON, TX--Continued

300209095091201 - LAKE HOUSTON SITE FC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	PHORATE TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
FEB										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR										
24...	<0.01	<0.01	<0.1	<0.01	<0.01	<1	<0.01	0.03	<0.01	<0.01
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<0.01	<0.01	<0.1	<0.02	<0.01	<1	<0.01	0.08	<0.01	<0.01
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

08072050 SAN JACINTO RIVER NEAR SHELDON, TX

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

DRAINAGE AREA.--2,879 mi².

PERIOD OF RECORD.--February 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 and biochemical analyses: February 1970 to September 1972. Pesticide analyses: May 1971 to September 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.

REMARKS.--Records good. Gage heights reflect tidal fluctuations. Rain gage at station. Radio telemetry at station.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 27.09 ft Oct. 19 at 1330 hours; minimum, -0.97 ft Feb. 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.91	1.59	---	---	3.01	.95	3.07	.53	3.82	2.26	2.77	1.78
2	3.61	2.35	---	---	3.17	.98	2.26	.27	2.85	2.09	2.95	2.25
3	3.44	1.78	---	---	4.00	1.21	2.51	.73	2.80	-.12	2.86	1.91
4	3.26	1.88	3.74	1.77	3.17	.47	2.26	.17	.24	-.97	2.72	1.81
5	3.35	1.44	3.93	1.30	2.58	.58	2.83	1.44	1.07	-.29	2.58	1.64
6	3.83	1.99	3.15	.58	2.51	.98	3.26	1.42	2.10	-.07	2.94	1.23
7	3.96	2.27	2.80	1.19	2.70	.67	2.10	.54	2.10	.34	2.60	.84
8	4.07	1.27	3.01	1.21	2.40	1.30	1.99	.50	1.61	-.04	.84	-.55
9	2.22	-.03	3.02	1.06	2.62	.89	2.08	.45	2.25	.42	2.21	.54
10	1.84	.42	2.03	.72	1.69	-.23	2.17	.52	2.21	.38	3.00	1.34
11	2.18	.80	2.13	.92	1.88	-.23	2.43	.64	1.61	-.01	3.07	1.66
12	2.43	.82	2.84	1.40	2.74	1.34	2.65	.61	2.10	-.11	3.32	1.84
13	2.40	.82	3.12	1.87	2.68	.76	3.22	1.09	2.58	.93	4.36	3.05
14	2.61	.91	2.86	1.36	3.10	1.39	2.11	1.49	2.82	1.02	5.34	4.34
15	4.53	1.69	2.52	1.09	2.85	1.13	2.07	.79	2.87	1.21	5.43	5.05
16	4.25	2.70	2.20	.51	3.20	1.15	2.83	1.52	2.42	.42	5.82	5.28
17	15.39	3.74	2.71	.99	2.56	.74	3.25	1.87	1.63	-.08	5.83	4.74
18	24.25	15.39	2.71	.95	3.42	2.12	3.78	2.68	2.05	.28	4.76	3.13
19	27.09	24.00	2.73	1.40	5.99	3.42	3.31	2.09	2.01	.47	3.13	2.33
20	---	---	3.04	1.60	6.06	4.65	4.14	2.66	1.73	-.04	3.04	1.74
21	---	---	3.07	.51	4.88	3.00	4.48	4.14	1.45	-.26	2.81	1.25
22	---	---	2.46	.77	3.70	.19	4.62	4.13	1.93	-.02	2.88	1.34
23	---	---	2.53	.27	2.02	.99	4.23	2.05	1.98	.10	2.67	.49
24	---	---	2.33	1.04	2.23	1.11	2.13	.84	1.71	-.07	2.82	.73
25	---	---	3.07	1.28	2.08	1.02	2.46	.88	2.21	.47	3.50	1.63
26	---	---	2.68	1.51	1.95	.65	3.77	1.14	2.53	1.04	3.50	1.78
27	---	---	3.36	1.63	2.37	.71	10.15	3.77	2.37	.71	2.61	1.09
28	---	---	2.65	1.04	3.31	1.28	11.90	10.15	2.64	1.60	2.98	1.58
29	---	---	2.85	1.33	2.74	.88	11.72	9.73	---	---	3.58	2.17
30	---	---	2.60	.46	2.58	.83	9.73	6.40	---	---	3.16	1.61
31	---	---	---	---	3.11	1.32	6.40	3.78	---	---	3.26	1.93
MONTH	---	---	---	---	6.06	-.23	11.90	.17	3.82	-.97	5.83	-.55

08072050 SAN JACINTO RIVER NEAR SHELDON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.19	1.60	2.93	1.37	3.09	1.21	2.11	.53	4.21	2.91	2.90	.94
2	3.08	1.51	2.67	.14	3.76	1.84	2.21	.43	4.38	2.83	2.73	.98
3	3.52	1.56	3.70	1.31	3.66	2.60	2.52	.79	3.44	1.83	2.77	.98
4	4.01	1.67	3.29	1.59	3.49	2.30	3.53	1.93	2.80	1.00	2.95	1.22
5	5.19	3.33	2.98	.75	3.28	2.03	3.31	1.69	2.65	1.00	3.36	1.09
6	5.61	4.68	3.52	1.51	3.01	1.90	2.70	.90	3.51	1.35	3.67	1.55
7	5.46	4.74	3.81	2.09	3.26	1.84	2.24	.47	3.54	1.59	3.40	1.75
8	5.24	4.46	4.53	2.00	3.03	1.82	2.11	.23	3.22	1.63	3.30	1.69
9	4.95	4.37	3.15	1.85	3.48	1.82	2.28	.29	3.53	1.48	3.04	1.60
10	5.26	3.74	2.82	1.79	3.24	1.30	2.16	.25	3.35	1.55	3.14	1.61
11	5.12	3.04	2.59	1.54	2.78	.30	1.92	-.11	3.58	1.64	3.10	1.70
12	3.68	2.88	3.33	1.54	1.55	-.53	1.90	-.39	3.37	1.86	2.98	1.47
13	3.05	2.10	3.84	1.83	2.37	-.28	2.23	-.11	3.32	1.73	2.99	1.28
14	3.42	1.99	3.85	2.07	2.43	.24	3.01	.56	3.21	1.94	2.79	1.52
15	3.59	2.11	3.17	.96	2.61	.39	2.85	1.14	2.99	1.77	3.00	1.72
16	3.49	1.59	3.32	1.03	2.74	.83	2.37	.90	2.96	1.57	3.15	1.55
17	4.17	1.64	4.08	1.65	3.18	1.25	2.18	.93	2.89	1.35	3.03	1.25
18	3.94	1.60	3.34	1.28	3.83	2.25	2.00	.64	2.67	1.04	2.85	1.25
19	4.05	1.68	1.88	-.01	2.79	1.34	1.70	.60	2.69	1.03	3.27	1.52
20	3.95	1.83	2.42	.34	1.96	.85	1.97	.60	2.60	.93	3.45	1.60
21	3.65	1.43	2.94	1.28	1.80	.68	2.11	.63	2.38	.78	3.41	1.78
22	3.46	1.42	2.94	1.59	1.75	.30	2.13	.58	2.79	1.02	2.39	1.07
23	2.40	.36	3.14	1.72	2.03	.24	2.15	.33	2.99	1.16	3.36	1.50
24	2.15	.02	2.99	1.68	2.30	.33	2.42	.53	2.98	1.35	3.56	1.97
25	3.02	1.48	2.82	1.31	2.32	.44	2.38	.50	2.96	1.29	3.98	2.14
26	3.70	1.92	2.83	.98	2.28	.11	2.21	.61	3.02	1.43	3.98	1.78
27	3.09	1.67	3.47	1.48	2.49	.49	2.04	.41	2.83	1.39	3.46	1.73
28	2.60	1.32	3.23	1.35	2.62	.57	2.09	.43	2.79	1.40	3.22	1.49
29	3.75	1.83	3.20	1.04	3.31	.61	2.29	.51	2.55	1.18	3.58	2.04
30	3.09	1.41	3.48	1.08	3.24	.94	3.71	1.88	2.81	1.79	3.93	2.31
31	---	---	2.96	.67	---	---	4.45	3.15	3.19	1.50	---	---
MONTH	5.61	.02	4.53	-.01	3.83	-.53	4.45	-.39	4.38	.78	3.98	.94

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 county road, 2.5 mi downstream from confluence of Willow Fork and Cane Island Branch of Buffalo Bayou, and 3.1 mi southeast of Katy.

DRAINAGE AREA.--63.3 mi².

PERIOD OF RECORD.--July 1977 to current year.
Water-quality records: Chemical and biochemical analyses: June 1978 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 75.02 ft above sea level, 1973 adjustment. All records adjusted to original site and datum.

REMARKS.--Records fair. Stage-discharge relationship affected by seasonal vegetation during most years. Gage located at temporary site 250 ft upstream Jan. 18 to Sept. 30, 1985. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,150 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	2300	2,350	35.25				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	40	1.6	30	53	193	1.9	.42	472	45	102	4.2
2	6.1	29	9.7	22	40	103	1.3	.37	157	32	84	5.1
3	5.1	25	144	18	33	82	1.2	.39	80	22	75	7.9
4	3.5	45	72	12	30	64	258	.40	38	19	49	4.4
5	3.4	137	37	7.7	23	49	348	.39	20	32	45	3.8
6	4.4	93	22	7.9	17	36	219	.42	11	33	43	3.0
7	3.1	56	14	5.7	18	112	130	.38	5.4	28	34	3.1
8	122	56	10	4.0	12	89	70	142	2.9	29	43	4.0
9	148	44	6.4	3.1	8.5	42	40	103	2.8	17	31	4.5
10	94	36	13	2.5	10	22	20	37	2.3	9.9	31	3.9
11	78	32	18	2.4	31	11	16	9.2	138	6.1	56	4.7
12	47	21	10	9.6	22	6.3	7.6	1.9	72	4.2	43	5.4
13	34	14	6.6	153	15	300	2.5	.95	35	4.6	35	6.2
14	30	10	12	48	8.8	525	1.4	.61	18	5.4	28	6.5
15	31	7.0	58	18	7.1	247	1.0	.59	10	7.1	15	6.3
16	39	9.5	e129	24	6.8	157	.84	.51	7.0	7.3	9.1	4.3
17	287	8.0	e192	50	5.8	98	.74	.37	4.5	6.7	6.3	4.5
18	1820	5.2	e128	65	5.1	53	.67	.50	9.6	5.9	5.4	7.3
19	1730	5.0	e80	59	13	28	.60	.38	7.3	5.9	13	7.8
20	913	3.1	52	30	6.0	16	.88	.31	6.2	5.7	11	6.4
21	545	4.3	38	31	6.9	12	1.5	.29	6.4	5.8	12	38
22	332	2.5	28	225	4.9	9.9	.67	.60	4.3	4.2	18	91
23	240	1.8	19	270	4.1	5.0	.45	.77	1.9	5.0	18	53
24	188	1.7	13	111	4.3	3.3	.47	.48	1.7	4.3	19	45
25	162	1.8	9.7	74	3.4	2.2	.46	.31	1.6	5.5	34	31
26	131	1.7	7.0	266	5.4	1.7	.36	.33	1.8	5.7	20	22
27	92	1.8	5.3	685	82	17	.42	.49	2.7	14	16	15
28	67	1.8	41	297	494	1.9	.39	1.2	2.7	25	12	11
29	49	1.8	97	165	---	16	.32	1.4	74	15	11	9.4
30	58	2.0	60	105	---	15	.38	88	75	30	20	6.4
31	45	---	40	72	---	4.4	---	79	---	110	6.7	---
TOTAL	7314.4	697.0	1373.3	2872.9	970.1	2321.7	1127.05	472.96	1271.1	550.3	945.5	425.1
MEAN	236	23.2	44.3	92.7	34.6	74.9	37.6	15.3	42.4	17.8	30.5	14.2
MAX	1820	137	192	685	494	525	348	142	472	110	102	91
MIN	3.1	1.7	1.6	2.4	3.4	1.7	.32	.29	1.6	4.2	5.4	3.0
AC-FT	14510	1380	2720	5700	1920	4610	2240	938	2520	1090	1880	843

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

MEAN	42.4	53.0	65.6	72.6	81.2	36.6	51.4	64.8	73.7	28.6	26.2	48.7
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	4.95	2.17	4.64	2.64	1.57	2.91	2.45	2.73	3.43	6.86	1.90
(WY)	1988	1981	1990	1986	1988	1981	1987	1978	1990	1994	1977	1982

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	24136.90		20341.41			
ANNUAL MEAN	66.1		55.7		53.7	
HIGHEST ANNUAL MEAN					137	1992
LOWEST ANNUAL MEAN					12.4	1984
HIGHEST DAILY MEAN	2810	Feb 21	1820	Oct 18	2810	Feb 21 1994
LOWEST DAILY MEAN	.90	Jul 17	.29	May 21	.29	May 21 1995
ANNUAL SEVEN-DAY MINIMUM	1.0	Apr 7	.38	Apr 26	.34	Dec 23 1984
INSTANTANEOUS PEAK FLOW			2350	Oct 18	3780	Feb 21 1994
INSTANTANEOUS PEAK STAGE			35.25	Oct 18	38.85	Feb 21 1994
ANNUAL RUNOFF (AC-FT)	47880		40350		38930	
10 PERCENT EXCEEDS	131		128		109	
50 PERCENT EXCEEDS	9.3		12		7.5	
90 PERCENT EXCEEDS	1.5		.98		1.5	

e Estimated

08072500 BARKER RESERVOIR NEAR ADDICKS, TX

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

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

PERIOD OF RECORD.--August 1945 to current year. On October 1973, the upper gage was converted to a flood-hydrograph partial-record station.
Water-quality records.--Chemical and biochemical analyses: June 1978 to September 1981.

GAGE.--Water-stage recorders. Datum of gage is sea level, 1973 adjustment; unadjusted for land-surface subsidence (since 1973). Prior to Oct 1, 1980, 0.33 ft below sea level, Datum of 1929, unadjusted for land-surface subsidence.

REMARKS.--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. Figures given herein represent total contents. Satellite telemeter at station. Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	114.7	-
Ground elevation at ends of dam	106.0	209,000
Design flood	105.4	199,000
Crest of spillway (invert)	73.2	0

COOPERATION.--The capacity table, furnished by the U.S. Army Corps of Engineers, is based on extensive releveling survey made in 1974 using mean 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, 33,770 acre-ft Oct. 22 at 1615 hours (elevation, 92.78 ft); minimum, 0.12 acre-ft Nov. 29 (elevation, 73.67 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

73.2	0	80.4	49	85.0	2,430	91.0	20,530
76.3	2	81.0	100	86.0	3,980	92.0	27,320
76.9	4	81.6	192	87.0	6,000	93.0	35,800
77.6	8	82.2	331	88.0	8,580	94.0	46,290
78.4	14	83.0	666	89.0	11,760	95.0	56,420
79.2	22	84.0	1,370	90.0	15,620	96.0	68,160
79.8	32						

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	21200	.12	.39	3490	5190	741	.16	5590	584	404	.15
2	.15	19830	.28	.31	1640	5280	842	.16	7540	803	661	.13
3	.15	18840	584	.33	6.90	4830	604	.16	8350	890	118	.13
4	.15	18340	1580	.28	.24	4010	3490	.16	8660	997	.33	.13
5	.14	18290	1190	.23	.21	3020	8400	.15	8780	1170	.26	.12
6	.14	17410	.87	.23	.21	2360	11030	.15	8780	1320	.23	.13
7	.14	16150	.37	.21	.22	1730	12110	.15	8780	803	.22	.12
8	61.1	15110	.29	.19	.19	219	11620	47.4	8750	146	.22	.12
9	518	14740	.21	.18	.18	1.50	10660	1070	8430	.24	.24	.12
10	401	13820	.25	.17	.18	.34	10040	1630	7980	.22	.21	.12
11	92.3	12570	.20	.17	.18	.26	8810	1860	8890	.14	.23	.12
12	.44	11340	.19	5.46	.17	.22	6840	1810	8890	.13	.23	.12
13	.29	10100	.18	1130	.18	656	4890	1430	7780	.18	.24	.12
14	.24	8920	.26	2520	.17	3890	2960	1020	6250	.15	.27	.12
15	.90	8140	.54	2860	.17	6620	997	584	4670	.14	.24	.12
16	94.4	7020	20.1	2520	.16	7150	.20	450	3090	.14	.19	.12
17	997	5790	118	2380	.16	5700	.21	470	1470	.14	.15	.12
18	12830	4590	215	2070	.15	3670	.19	492	23.0	.13	.14	.19
19	22530	3420	22.7	570	.17	1470	.18	505	.20	.13	.16	.15
20	28710	2730	.47	.48	.16	442	.24	514	.16	.13	.16	.14
21	32360	1500	.35	.32	.15	645	.22	532	.14	.12	.15	.55
22	33770	18.5	.27	20.6	.14	778	.20	350	.13	.12	.18	5.69
23	33330	.21	.22	1120	.14	877	.18	23.6	.13	.12	.26	.43
24	32530	.17	.19	635	.18	951	.18	.14	.12	.12	.28	.27
25	32530	.17	.17	141	.15	656	.15	.13	.12	.12	.42	.22
26	31160	.16	.16	1160	.17	272	.15	.13	.13	.13	.27	.18
27	29670	.16	.15	6620	10.8	33.7	.15	.17	.12	.13	.21	.16
28	27620	.12	9.28	8430	3590	.32	.16	.15	.12	.14	.19	.14
29	25550	.12	6.77	7980	---	10.9	.15	21.8	.62	.16	.19	.14
30	23660	.12	14.3	6750	---	265	.15	898	136	2.84	.21	.14
31	22530	---	2.35	5190	---	565	---	2580	---	109	.17	---
MAX	33770	21200	1580	8430	3590	7150	12110	2580	8890	1320	661	5.69
MIN	.14	.12	.12	.17	.14	.22	.15	.13	.12	.12	.14	.12

CAL YR 1994 MAX 33770 MIN .12
WTR YR 1995 MAX 33770 MIN .12

08072730 BEAR CREEK NEAR BARKER, TX

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

DRAINAGE AREA.--21.5 mi². Prior to Oct. 1, 1988, 19.8 mi². Change due to road and ditch relocations.

PERIOD OF RECORD.--July 1977 to current year.
Water-quality records.--Chemical and biochemical analyses: June 1978 to September 1981.

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 site 1,100 ft downstream, same datum.

REMARKS.--Records fair. Channel was rectified in 1981 and 1987 water years. Considerable diversions and return of irrigation water from area above station. Several observations of water temperature were made during the year. Maximum gage height for period of record occurred prior to channel rectification. Gage at temporary location 1,100 ft downstream Mar. 1, 1984, to Mar. 12, 1985. Satellite telemeter at station.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 19	2400	725	10.70	Apr. 4	1630	425	8.34

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.23	29	e.03	4.8	24	70	1.0	.39	256	8.0	12	36
2	e.49	16	e.70	2.7	15	53	.78	e.32	127	4.5	8.5	12
3	1.0	7.7	31	1.9	8.3	45	.62	e.27	76	2.4	16	6.3
4	.74	5.0	13	1.2	4.9	36	186	1.0	46	1.7	25	3.9
5	e.53	33	5.1	.70	3.2	28	172	1.1	30	15	21	1.7
6	e.44	31	2.2	e.49	2.4	17	109	.69	18	28	20	1.4
7	e.50	16	1.5	e.40	2.0	32	70	.62	9.3	8.7	18	1.5
8	25	8.6	1.3	e.33	e1.7	32	48	71	2.6	11	18	1.1
9	32	5.2	.55	e.27	e1.6	14	32	69	.84	4.4	14	.81
10	30	3.6	1.7	17	e1.5	5.7	16	37	.43	.73	9.1	.51
11	22	3.0	1.1	23	e1.4	2.9	5.6	15	41	.32	6.3	.45
12	9.8	1.8	.57	5.3	e1.2	1.8	2.7	11	25	.24	16	.38
13	9.3	1.2	e.47	87	e1.1	79	1.5	6.0	8.3	.20	35	.34
14	8.4	.80	3.6	52	e1.1	110	.97	2.1	2.7	.21	33	.27
15	14	e.58	20	33	e1.0	76	.73	.82	1.3	1.8	33	.25
16	18	e.49	64	19	e.93	56	.65	.54	.63	11	13	.25
17	157	e.40	88	11	e.85	41	e.51	.39	.36	3.3	5.7	.27
18	578	e.35	58	18	e.79	26	e.45	.39	.29	.92	8.0	.30
19	640	e.29	43	15	e.74	13	e.40	.67	.27	.41	33	.31
20	710	e.25	32	6.4	e.68	5.8	e.55	.43	.23	.27	15	.47
21	614	e.21	23	3.2	e.63	3.4	1.2	.33	.22	.26	6.2	14
22	531	e.17	17	20	e.58	2.2	.65	.29	.15	.25	5.9	67
23	395	e.15	10	26	e.54	1.6	.40	.33	.17	.26	18	32
24	221	e.12	5.6	6.7	e1.9	1.3	e.29	.30	.15	.27	15	15
25	117	e.10	3.1	2.0	5.5	1.0	e.23	.29	.15	.34	72	8.0
26	79	e.08	1.8	67	5.3	1.0	e.18	.30	.15	.61	25	5.3
27	67	e.07	1.2	239	5.9	13	e.14	.94	.19	.60	12	3.4
28	50	e.06	16	91	95	1.6	.77	2.1	.17	.45	5.2	2.3
29	38	e.05	31	63	---	8.5	.78	1.5	3.2	.36	2.1	2.0
30	30	e.04	19	47	---	10	.53	168	14	.63	6.1	1.4
31	35	---	8.9	34	---	1.6	---	88	---	10	15	---
TOTAL	4434.43	165.31	504.42	898.39	189.74	789.4	654.63	481.11	664.80	117.13	542.1	218.91
MEAN	143	5.51	16.3	29.0	6.78	25.5	21.8	15.5	22.2	3.78	17.5	7.30
MAX	710	33	88	239	95	110	186	168	256	28	72	67
MIN	.23	.04	.03	.27	.54	1.0	.14	.27	.15	.20	2.1	.25
AC-FT	8800	328	1000	1780	376	1570	1300	954	1320	232	1080	434

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

MEAN	20.7	22.6	22.6	25.7	26.3	13.6	17.9	27.9	31.4	11.4	11.7	19.0
MAX	143	98.2	131	91.0	120	52.7	119	89.5	106	45.3	53.1	128
(WY)	1995	1983	1992	1979	1992	1993	1991	1983	1986	1983	1983	1979
MIN	.010	.034	.098	.75	.61	.26	.029	1.28	1.19	1.27	.76	.10
(WY)	1989	1989	1990	1986	1988	1982	1987	1985	1980	1985	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	10092.44		9660.37			
ANNUAL MEAN	27.7		26.5		20.9	
HIGHEST ANNUAL MEAN					48.4	1992
LOWEST ANNUAL MEAN					4.45	1988
HIGHEST DAILY MEAN	710	Oct 20	710	Oct 20	1120	Aug 31 1981
LOWEST DAILY MEAN	.03	Dec 1	.03	Dec 1	.00	Nov 20 1977
ANNUAL SEVEN-DAY MINIMUM	.06	Nov 25	.06	Nov 25	.00	Mar 16 1978
INSTANTANEOUS PEAK FLOW			725	Oct 19	2060	Aug 31 1981
INSTANTANEOUS PEAK STAGE			10.70	Oct 19	16.72	Sep 20 1979
ANNUAL RUNOFF (AC-FT)	20020		19160		15170	
10 PERCENT EXCEEDS	60		60		50	
50 PERCENT EXCEEDS	1.8		3.2		1.9	
90 PERCENT EXCEEDS	.35		.27		.05	

e Estimated

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, 500 ft upstream from former site, 2.1 mi downstream from Dinners Creek, and 5.7 mi north of Addicks.

DRAINAGE AREA.--24.6 mi^2.

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

REMARKS.--Records good. Rain gage at station. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s June 19,1993 (gage height 22.65 ft); maximum gage height 24.42 ft Sept. 19, 1979; no flow for a few days during period July to September 1977, and during the 1978 and 1980 water years.

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)
Oct. 18	0445	1,660	22.16	Apr. 4	1530	718	18.76
Dec. 16	1030	485	17.46	May 30	0900	827	19.29
Jan. 27	0130	469	17.36	June 1	0430	656	18.44

08073000 ADDICKS RESERVOIR NEAR ADDICKS, TX

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

DRAINAGE AREA.--136 mi². Prior to Aug. 1, 1977, 133 mi². Basin boundary change due to relocation of drainage ditches. During extreme floods, basin may receive and (or) lose runoff due to basin interchange.

PERIOD OF RECORD.--June 1948 to current year. In October 1973, the upper gages were converted to flood-hydrograph partial-record stations.
Water-quality records.--Chemical and biochemical analyses: June 1978 to September 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 Mean Sea Level, Datum of 1929, unadjusted for land-surface subsidence that occurred prior to that date.

REMARKS.--The reservoir is formed by a rolled earthfill dam 61,166 ft long. The dam was completed in December 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. Figures given herein represent total contents. Satellite telemeter at station. Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	122.7	-
Design flood	112.7	212,500
Ground elevation at ends of dam	112.0	200,800
Crest of spillway (invert)	71.1	0

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 was dry at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 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, 43,700 acre-ft Oct. 23 at 1145 hours (elevation, 98.75 ft); minimum, 0.37 acre-ft April 23 (elevation, 71.70 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

71.1	0	75.5	13	81.0	295	87.0	2,320	92.0	9,930	97.0	32,040
71.9	0.5	76.0	21	82.0	414	88.0	3,190	93.0	12,980	98.0	38,460
72.4	1	77.0	47	83.0	598	89.0	4,300	94.0	16,700	99.0	45,500
73.6	2	78.0	85	84.0	870	90.0	5,710	95.0	21,120	100.0	53,180
74.6	4	79.0	134	85.0	1,220	91.0	7,540	96.0	26,260	101.0	61,570
75.1	8	80.0	202	86.0	1,680						

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	30470	.47	1.1	3910	3480	413	.45	6770	224	343	.78
2	.45	28140	.82	.90	2420	3610	449	.43	8380	278	401	.48
3	.45	26360	488	.90	843	3420	478	.45	8660	318	242	.50
4	.43	25490	816	.74	1.0	2900	3260	.46	8490	413	.82	.47
5	.41	24960	427	.65	.62	2270	8060	.43	8200	576	.62	.43
6	.40	23140	1.0	.63	.46	1790	9530	.43	7800	885	.71	.43
7	.43	20930	1.3	.58	.44	1670	10010	.43	7420	975	3.8	.41
8	253	18850	1.4	.55	.43	804	9350	409	7000	1010	1.6	.43
9	493	17900	.47	.56	.43	91	8470	1180	6830	1030	.78	.43
10	168	16340	1.2	.55	.47	1.1	8130	1520	6790	698	.66	.44
11	1.1	14180	.70	1.0	.44	.93	7460	1630	7610	200	.58	.44
12	1.1	12020	.53	42	.41	.86	6350	1700	7670	.43	1.6	.43
13	.84	10200	.51	1160	.41	1080	5250	1750	7120	.45	6.4	.43
14	.83	8950	.76	1570	.42	3330	3800	1770	6280	.44	42	.60
15	42	7860	36	1200	.43	4480	2100	1780	5170	.41	5.1	.43
16	344	6810	298	585	.47	4390	550	1550	3830	.52	.85	.41
17	1710	5790	1260	303	.40	3330	.51	1200	2320	.43	.66	.43
18	19890	4790	1760	293	.45	1940	.43	876	892	.40	16	.43
19	27240	3780	1380	103	.81	682	.42	591	232	.79	1.2	.43
20	34850	3190	233	1.3	.46	339	.73	342	.43	.46	.66	.46
21	39950	2140	1.7	.96	.45	397	.43	126	.40	.43	.47	91
22	43100	417	1.0	205	.44	435	.38	34	.38	.39	.93	397
23	43600	.81	.82	473	.43	462	.37	61	.39	.41	.85	307
24	43030	.53	.70	14	.77	486	.42	85	.43	.41	.93	1.6
25	42810	.49	.61	1.0	.77	311	.39	3.0	.43	.40	35	.76
26	41470	.48	.55	864	.89	115	.41	.41	.41	.39	.85	.61
27	39950	.49	.52	5900	93	133	.41	.67	.38	.40	.60	.55
28	38050	.49	78	7590	2390	57	.41	.47	.38	.39	.47	.52
29	36200	.47	153	7280	---	99	.43	98	1.2	.40	.48	.50
30	34150	.47	61	6350	---	276	.43	1330	118	37	.50	.50
31	32290	---	1.7	5190	---	367	---	3420	---	231	1.0	---
MAX	43600	30470	1760	7590	3910	4480	10010	3420	8660	1030	401	397
MIN	.40	.47	.47	.55	.40	.86	.37	.41	.38	.39	.47	.41

CAL YR 1994 MAX 43600 MIN .35
WTR YR 1995 MAX 43600 MIN .37

08073500 BUFFALO BAYOU NEAR ADDICKS, TX

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

DRAINAGE AREA.--293 mi².

PERIOD OF RECORD.--August 1945 to current year.
Water-quality records.--Chemical analyses: October 1962 to March 1963. Chemical, biochemical, and pesticide analyses: August 1970 to September 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 to 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.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Floodflows are regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000), 3.2 and 3.0 mi upstream, respectively (total capacity, 315,900 acre-ft). Extreme low flow is sustained by drainage from irrigated lands, and from minor sewage effluent.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1896, 85.6 ft in December 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	1410	44	236	1540	609	e105	e49	e800	e38	e31	e111
2	55	1820	94	167	1510	888	e50	e47	e120	e28	e325	e54
3	45	1550	332	167	1450	805	e95	e46	e155	e21	e440	e43
4	42	821	103	143	690	947	e1650	e50	e250	e42	e560	e39
5	39	812	482	113	128	911	e1350	e49	e245	e86	e105	e35
6	37	1520	908	102	96	700	e555	e53	e245	e115	e77	e34
7	39	1780	173	92	84	678	e465	e61	e241	e310	e183	e35
8	162	1720	139	80	82	1250	e980	e700	e236	e285	e179	e30
9	109	1050	105	77	71	917	e1350	e230	e221	e185	e92	e32
10	568	1070	111	66	68	259	e810	e49	e210	e142	e105	e32
11	442	1730	132	93	74	149	e945	e48	e500	e333	e71	e35
12	264	1710	93	244	76	122	e1480	e76	e484	e205	e75	e73
13	143	1640	80	1190	75	456	e1470	e215	e800	e110	e155	e42
14	124	1310	104	1110	71	271	e1490	e210	e1160	e70	e205	e36
15	278	980	313	1010	66	187	e1580	e200	e1280	e28	e208	e43
16	260	1050	522	933	71	644	e1300	e207	e1320	e29	e98	e51
17	704	1120	619	595	69	1530	e550	e220	e1390	e24	e90	e39
18	2460	1090	635	634	59	1700	e70	e210	e1360	e15	e180	e79
19	1110	1070	774	908	75	1580	e59	e197	e700	e36	e222	e55
20	662	704	946	630	93	889	e76	e180	e235	e33	e123	e61
21	619	810	453	177	66	65	e112	e160	e33	e34	e102	e320
22	536	1340	171	403	55	56	e73	e152	e25	e33	e273	e640
23	1540	507	133	952	52	57	e66	e160	e25	e30	e271	e550
24	1660	80	109	1280	86	60	e57	e93	e20	e31	e155	e400
25	738	59	92	809	119	256	e51	e60	e22	e26	e286	e122
26	1400	52	77	784	101	349	e46	e55	e25	e25	e209	e66
27	1730	51	64	813	192	323	e48	e85	e25	e24	e89	e51
28	1880	53	335	1030	569	291	e49	e70	e23	e22	e68	e42
29	1910	49	810	1560	---	324	e48	e220	e230	e26	e228	e35
30	1890	46	676	1660	---	323	e50	e800	e450	e46	e82	e34
31	1660	---	398	1610	---	155	---	e155	---	e83	e324	---
TOTAL	23145	29004	10027	19668	7688	17751	17030	5107	12830	2515	5611	3219
MEAN	747	967	323	634	275	573	568	165	428	81.1	181	107
MAX	2460	1820	946	1660	1540	1700	1650	800	1390	333	560	640
MIN	37	46	44	66	52	56	46	46	20	15	31	30
AC-FT	45910	57530	19890	39010	15250	35210	33780	10130	25450	4990	11130	6380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1995, BY WATER YEAR (WY)

MEAN	212	253	244	273	322	191	212	299	305	190	127	209
MAX	1044	1790	884	1107	1508	1563	1438	1599	1135	971	664	1186
(WY)	1958	1947	1977	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1945 - 1995	
ANNUAL TOTAL	142049		153595			
ANNUAL MEAN	389		421		236	
HIGHEST ANNUAL MEAN					784	1992
LOWEST ANNUAL MEAN					23.3	1951
HIGHEST DAILY MEAN	2460	Oct 18	2460	Oct 18	6790	Jun 28 1960
LOWEST DAILY MEAN	23	Mar 28	15	Jul 18	.00	Jun 22 1948
ANNUAL SEVEN-DAY MINIMUM	37	Sep 25	24	Jun 22	.00	Jun 22 1948
INSTANTANEOUS PEAK FLOW			2920	Oct 18	11200	Aug 29 1945
INSTANTANEOUS PEAK STAGE			66.74	Oct 18	81.23	Aug 29 1945
ANNUAL RUNOFF (AC-FT)	281800		304700		170900	
10 PERCENT EXCEEDS	1280		1340		760	
50 PERCENT EXCEEDS	125		162		47	
90 PERCENT EXCEEDS	42		37		5.0	

e Estimated

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 station 08073500, and 3.7 mi upstream from station 08073700.

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

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair. Stage discharge relationship is affected by seasonal vegetal growth during most years. High water flow is a combination of regulated flow from Barker and Addicks Reservoirs (stations 08072500 and 08073000, located 10.1 and 10.3 mi upstream, respectively), and runoff from highly urbanized areas below these reservoirs. Low flow is mostly sustained by sewage effluent. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	1390	e54	310	1590	595	e110	54	801	43	36	116
2	60	1810	e119	e206	1550	994	e55	52	131	23	334	59
3	50	1660	642	e235	1510	858	e100	51	163	16	445	48
4	48	974	e117	e163	885	1020	1710	55	264	47	566	44
5	46	887	425	e123	e156	981	1400	54	249	91	109	40
6	45	1490	1030	e113	e105	815	563	58	249	121	82	39
7	45	1790	e242	e100	e102	787	472	66	246	318	188	40
8	357	1770	e142	e90	e90	1250	989	741	241	290	184	35
9	79	1260	e104	e84	e83	1070	1390	264	226	189	97	37
10	663	1010	e113	e77	e79	e322	845	54	215	146	110	37
11	550	1760	e150	e94	e78	e150	955	53	507	339	76	40
12	338	1750	e94	e248	e79	e119	1500	81	489	209	80	78
13	152	1710	e84	1650	e76	817	1480	222	804	118	160	47
14	120	1420	e161	1190	e73	e326	1510	215	1170	75	210	41
15	582	1090	369	1090	e70	e196	1590	206	1290	33	213	48
16	460	1130	738	1020	e71	e550	1370	212	1330	34	103	56
17	1190	1210	705	731	e72	1480	588	226	1400	29	95	44
18	3520	1190	720	941	e67	1710	75	215	1370	20	184	84
19	1860	1170	813	958	e70	1620	64	202	705	41	227	60
20	732	878	1020	791	e89	1080	81	186	242	38	128	66
21	736	797	589	e217	e69	e65	116	166	38	39	107	325
22	476	1410	e202	555	e63	e58	78	157	29	38	278	645
23	1480	716	e143	1000	e58	e55	71	164	29	35	276	554
24	1710	e101	e113	1330	e103	e55	62	98	26	36	160	403
25	877	e82.0	e95	988	e119	e260	56	66	27	31	291	127
26	1310	e78	e83	1220	e98	e354	51	60	30	30	214	71
27	1760	e75	e76	1340	e229	e319	53	90	29	29	94	56
28	1830	e73	543	1050	1050	e285	54	74	28	27	73	47
29	1910	e60	904	1560	---	451	53	234	237	31	233	40
30	1900	e57	809	1700	---	e335	55	839	461	51	87	39
31	1750	---	507	1650	---	e160	---	166	---	88	329	---
TOTAL	26681	30798.0	11906	22824	8684	19137	17496	5381	13026	2655	5769	3366
MEAN	861	1027	384	736	310	617	583	174	434	85.6	186	112
MAX	3520	1810	1030	1700	1590	1710	1710	839	1400	339	566	645
MIN	45	57	54	77	58	55	51	51	26	16	36	35
AC-FT	52920	61090	23620	45270	17220	37960	34700	10670	25840	5270	11440	6680

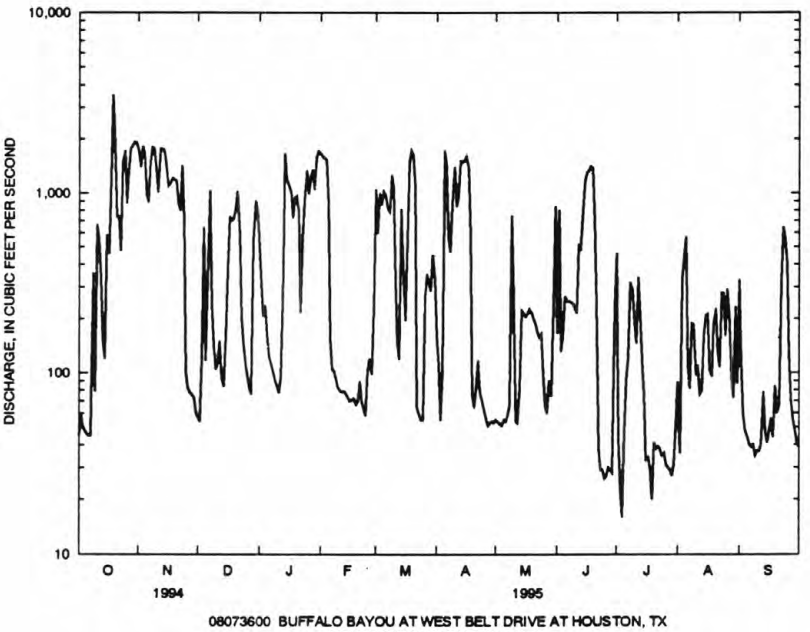
08073600 BUFFALO BAYOU AT WEST BELT DRIVE, HOUSTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

MEAN	280	358	345	410	432	320	316	388	451	278	198	320
MAX	861	1027	961	1133	1619	1701	1639	965	1129	956	784	1278
(WY)	1995	1995	1977	1992	1992	1992	1992	1992	1973	1993	1983	1981
MIN	58.5	38.4	62.4	84.8	36.2	39.6	46.0	58.7	65.7	66.6	67.4	60.0
(WY)	1979	1972	1990	1986	1976	1976	1978	1978	1982	1994	1980	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	160166.0		167723.0			
ANNUAL MEAN	439		460		340	
HIGHEST ANNUAL MEAN					854	1992
LOWEST ANNUAL MEAN					142	1988
HIGHEST DAILY MEAN	3520	Oct 18	3520	Oct 18	3820	Aug 31 1981
LOWEST DAILY MEAN	31	Mar 28	16	Jul 3	16	Jul 3 1995
ANNUAL SEVEN-DAY MINIMUM	45	Sep 25	28	Jun 22	27	Nov 13 1971
INSTANTANEOUS PEAK FLOW			3780	Oct 18	7290	Mar 4 1992
INSTANTANEOUS PEAK STAGE			59.74	Oct 18	68.30	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	317700		332700		246400	
10 PERCENT EXCEEDS	1260		1390		1000	
50 PERCENT EXCEEDS	163		184		112	
90 PERCENT EXCEEDS	56		42		48	

e Estimated



08073600 BUFFALO BAYOU AT WEST BELT DRIVE AT HOUSTON, TX
MEAN DAILY DISCHARGE (CFS)

08073600 BUFFALO BAYOU AT WEST BELT DRIVE, HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: June 1978 to current year. Chemical and biochemical analyses: June 1978 to August 1986. Pesticide analyses: June 1978 to March 1983. Sediment analyses: May 1979 to August 1986.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1979 to September 1981.
WATER TEMPERATURES: June 1979 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 922 microsiemens June 25, 1979; minimum daily, 78 microsiemens Aug. 31, 1981.
WATER TEMPERATURE: Maximum daily, 30.5°C July 1, 1978; minimum daily, 1.0°C Nov. 27, 1980.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
FEB										
23...	1000	61	828	7.7	18.0	22	20	7.2	76	2.5
MAY										
05...	0920	49	858	8.0	24.0	13	22	6.4	76	3.3
JUL										
12...	0920	248	405	7.7	29.0	88	23	6.0	78	4.9
SEP										
05...	1002	43	720	7.6	28.0	20	17	5.0	64	2.7

DATE	BOD OXYGEN DEMAND, BIOCHEM CARBON. 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)
FEB										
23...	1.8	160	0	49	8.9	98	3	7.9	190	36
MAY										
05...	2.0	160	0	49	9.5	110	4	7.7	200	37
JUL										
12...	3.8	76	0	24	3.8	48	2	5.5	110	15
SEP										
05...	2.0	130	0	39	7.2	94	4	7.8	160	32

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
FEB										
23...	110	0.50	17	470	27	4	23	5.69	5.69	0.110
MAY										
05...	110	0.40	13	480	49	13	36	4.79	4.79	0.110
JUL										
12...	46	0.30	11	226	34	11	23	1.30	1.30	0.100
SEP										
05...	89	0.40	18	410	20	2	18	4.85	4.85	0.150

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB									
23...	5.80	5.80	0.430	0.57	1.0	0.960	0.910	2.8	5.8
MAY									
05...	4.90	4.90	0.200	0.50	0.70	0.930	0.940	2.9	7.8
JUL									
12...	1.40	1.40	0.280	0.52	0.80	0.670	0.670	2.1	9.9
SEP									
05...	5.00	5.00	0.650	0.55	1.2	1.40	1.30	4.0	7.3

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 gage near Addicks (station 08073500), and 12.5 mi upstream from gage at Houston (station 08074000).

DRAINAGE AREA.--317 mi².

PERIOD OF RECORD.--October 1963 to September 1976 and October 1984 to current year. October 1976 to September 1984 (gage heights only).
Water-quality records.--Chemical, biochemical, and pesticide analyses: October 1970 to September 1978.

GAGE.--Water-stage recorder. Datum of gage is 1.35 ft below sea level.

REMARKS.--Records fair. High-water flow is a combination of regulated flow from Barker and Addicks Reservoirs (stations 08072500 and 08073000), located 14.0 and 13.8 mi upstream from gage, respectively, and runoff from highly urbanized areas below these reservoirs. Low flow is mostly sustained by sewage effluent. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	1440	66	337	1640	549	e115	e59	e900	e48	e41	e121
2	66	1860	116	220	1590	1070	e60	e57	e150	e28	e350	e64
3	59	1760	825	260	1570	887	e105	e56	e170	e21	e460	e53
4	57	1100	142	178	1010	1060	e1750	e60	e275	e52	e575	e49
5	55	924	353	137	200	1020	e1450	e59	e255	e96	e115	e45
6	53	1500	1060	128	114	892	e570	e63	e255	e125	e87	e44
7	60	1830	325	115	114	817	e480	e71	e250	e325	e195	e45
8	417	1820	158	102	96	1240	e1000	839	e246	e295	e190	e40
9	69	1390	121	94	88	1180	1450	290	e231	e195	e102	e42
10	603	957	122	89	85	340	879	e60	e220	e152	e115	e42
11	539	1780	161	103	84	152	963	e58	e550	e345	e81	e45
12	350	1780	107	228	81	121	1490	e86	e495	e215	e85	e83
13	197	1750	96	1850	80	1080	1490	e230	e810	e125	e165	e52
14	167	1490	158	1190	78	348	1500	e220	e1180	e80	e215	e46
15	739	1160	397	1100	76	208	1600	e211	e1300	e38	e220	e54
16	574	1170	813	1040	76	458	1430	e217	e1340	e39	e110	e61
17	1220	1260	748	813	76	1480	e630	e231	e1420	e34	e100	e49
18	4480	1240	765	1030	71	1730	e80	e220	e1400	e25	e190	e89
19	2380	1230	820	961	71	1650	e69	e207	e715	e46	e235	e65
20	777	983	1050	888	96	1220	e86	e191	e250	e43	e135	e71
21	805	754	684	252	75	73	e121	e171	e43	e44	e112	e330
22	468	1450	225	580	67	60	e83	e162	e35	e43	e285	e650
23	1500	863	162	1040	63	56	e76	e164	e35	e40	e280	e560
24	1770	110	130	1380	110	54	e67	e103	e30	e41	e165	e410
25	1000	80	108	1110	116	e270	e61	e71	e32	e46	e294	e132
26	1310	75	94	1310	103	e360	e56	e65	e35	e35	e220	e76
27	1830	73	86	1660	185	e330	e58	e95	e35	e34	e100	e61
28	1870	73	595	1040	1260	e300	e59	e79	e33	e32	e78	e52
29	1990	69	938	1550	---	498	e58	e245	e250	e36	e240	e45
30	1970	68	884	1730	---	346	e60	e900	e475	e56	e92	e44
31	1860	---	549	1690	---	e170	---	e175	---	e93	e335	---
TOTAL	29288	32039	12858	24205	9275	20019	17896	5715	13415	2827	5967	3520
MEAN	945	1068	415	781	331	646	597	184	447	91.2	192	117
MAX	4480	1860	1060	1850	1640	1730	1750	900	1420	345	575	650
MIN	53	68	66	89	63	54	56	56	30	21	41	40
AC-FT	58090	63550	25500	48010	18400	39710	35500	11340	26610	5610	11840	6980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995h, BY WATER YEAR (WY)

MEAN	271	342	275	341	396	359	315	448	462	250	192	247
MAX	1101	1068	945	1156	1673	1804	1708	1584	1295	1027	534	848
(WY)	1971	1995	1986	1992	1992	1992	1992	1968	1992	1993	1989	1974
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995h	
ANNUAL TOTAL	168784		177024			
ANNUAL MEAN	462		485		322	
HIGHEST ANNUAL MEAN					907	1992
LOWEST ANNUAL MEAN					77.5	1965
HIGHEST DAILY MEAN	4480	Oct 18	4480	Oct 18	4740	Mar 5 1992
LOWEST DAILY MEAN	44	Mar 30	21	Jul 3	6.0	Dec 6 1964
ANNUAL SEVEN-DAY MINIMUM	53	Sep 25	34	Jun 22	7.0	Dec 2 1964
INSTANTANEOUS PEAK FLOW			4940	Oct 18	7500	Mar 4 1992
INSTANTANEOUS PEAK STAGE			54.11	Oct 18	61.23	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	334800		351100		233200	
10 PERCENT EXCEEDS	1310		1450		960	
50 PERCENT EXCEEDS	185		190		107	
90 PERCENT EXCEEDS	61		47		29	

e Estimated
h See PERIOD OF RECORD paragraph.

08074000 BUFFALO BAYOU AT HOUSTON, TX

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

DRAINAGE AREA.--358 mi², unadjusted for basin boundary changes.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1936 to September 1957, October 1957 to December 1961 (high-water records and discharge measurements), January 1962 to September 1975, October 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 June 19, 1936, nonrecording gage, and June 19, 1936, to Jan. 16, 1962, water-stage recorder at site 0.8 mi downstream at 4.08-feet lower datum. Jan. 17, 1962, to Sept. 30, 1973, auxiliary water-stage recorder 0.8 mi downstream. Water-stage recorder at Main Street (station 08074598) used as auxiliary gage after Sept. 30, 1993.

REMARKS.--Records fair. Although floodflows are regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000) located 26.3 and 26.8 mi upstream, respectively, flood peaks from the urbanized areas below these reservoirs are often independent of the regulation. Discharge is computed using a stage-fall-discharge relation for all storms that produce peak discharges above 2,000 ft³/s. Discharges below 1,000 ft³/s are computed or estimated following designated storm periods only. Low flow is mostly sustained by sewage effluent from Houston suburbs. Gage heights are affected by tides, backwater from Whiteoak Bayou, and other streams. Satellite telemeter at station.

AVERAGE DISCHARGE.--8 years (water years 1936-44) unregulated, 272 ft³/s (197,100 acre-ft/yr); 26 years (water years 1944-57, 1962-75) regulated, 274 ft³/s (198,500 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s Mar. 4, 1992 (gage height, 34.63 ft); minimum daily, 1.3 ft³/s May 24, 1939, Nov. 5, 1950, occurred prior to urban development and accompanying sewage effluent releases.

EXTREMES OUTSIDE PERIOD OF RECORD.--All flood data at site 0.8 mi downstream at present datum. Maximum gage height since at least 1835, 49.0 ft Dec. 9, 1935 (discharge, 40,000 ft³/s); furnished by engineer for Harris County. Flood of May 31, 1929, reached a gage height of 43.5 ft (discharge, 19,000 ft³/s), at bridge on Capitol Avenue, affected by bridge; furnished by city of Houston.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,450 ft³/s Oct. 18 at 1200 hours (gage height, 26.85 ft); minimum discharges not determined (affected by tides).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1560	---	---	1640	510	---	---	1550	---	---	624
2	---	1960	---	---	1590	1080	---	---	---	---	779	---
3	---	2030	1420	---	1610	893	---	---	---	---	---	---
4	---	1410	---	---	1250	1090	2370	---	---	---	832	---
5	---	983	---	---	400	1050	3030	---	---	---	---	---
6	---	1350	---	---	---	1000	1370	---	---	---	---	---
7	---	1920	---	---	---	1040	---	---	---	---	---	---
8	767	1970	---	---	---	1090	726	1380	---	---	---	---
9	---	1730	---	---	---	1420	1610	---	---	---	---	---
10	---	852	---	---	---	561	994	---	---	---	---	---
11	---	1750	---	---	---	---	1030	---	1070	---	---	---
12	---	1900	---	---	---	---	1430	---	509	---	---	---
13	---	1900	---	2730	---	2080	1590	---	704	---	---	---
14	---	1700	---	1340	---	740	1580	---	1190	---	---	---
15	803	1270	---	1170	---	---	1730	---	1330	---	---	---
16	1570	1090	1040	1110	---	---	1650	---	1400	---	---	---
17	1120	1260	821	1000	---	1380	928	---	1560	---	---	---
18	7620	1250	741	1690	---	1830	---	---	e1450	---	---	---
19	5290	1260	744	979	---	1790	---	---	e800	---	---	---
20	1380	1160	1060	1110	---	1610	---	---	---	---	---	---
21	871	588	929	---	---	---	---	---	---	---	---	---
22	---	1400	---	629	---	---	---	---	---	---	---	---
23	---	1260	---	1120	---	---	---	---	---	---	---	---
24	1920	---	---	1360	---	---	---	---	---	---	---	---
25	1530	---	---	1340	---	---	---	---	---	---	---	---
26	1040	---	---	1760	---	---	---	---	---	---	---	---
27	1930	---	---	3550	---	---	---	---	---	---	---	---
28	1960	---	---	1040	2120	---	---	---	---	---	---	---
29	2170	---	1620	1540	---	---	---	872	---	---	---	---
30	2190	---	1010	1820	---	---	---	2250	1330	---	---	---
31	2100	---	634	1770	---	---	---	788	---	---	750	---

e Estimated

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1968 to July 1981. Pesticide analyses: February 1, 1969 to July 1981.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1986 to current year.
WATER TEMPERATURE: April 1986 to current year.
DISSOLVED OXYGEN: April 1986 to current year.

INSTRUMENTATION.--Since April 1986, a three-parameter water-quality monitor continuously records specific conductance, water temperature, and dissolved oxygen at this station.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1040 microsiemens Dec. 1, 1994; minimum 29 microsiemens May 8, 1995.
WATER TEMPERATURE: Maximum, 31.5°C on several summer days during 1988-91, 93; minimum 5.0°C Dec. 24, 1989.
DISSOLVED OXYGEN: Maximum, 12.6 mg/L Feb. 12, 1994; minimum, 1.1 Aug. 9, 1988.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1040 microsiemens Dec. 1; minimum, 29 microsiemens May 8.
WATER TEMPERATURE: Maximum, 31.0°C Aug. 21; minimum, 9.5°C Jan. 5.
DISSOLVED OXYGEN: Maximum, 12.3 mg/L Nov. 25; minimum, 2.5 mg/L Aug. 30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	821	802	813	---	---	---	1040	776	904	434	306	387
2	819	799	809	---	---	---	792	562	748	554	434	504
3	819	757	805	---	---	---	562	131	243	554	340	414
4	767	697	740	---	---	---	558	364	483	484	336	419
5	794	767	787	---	---	---	632	375	564	532	462	493
6	808	773	797	---	---	---	682	298	378	587	519	545
7	806	255	712	---	---	---	530	342	431	631	587	614
8	668	147	331	---	---	---	762	486	650	681	631	650
9	363	188	270	150	122	141	724	470	572	720	681	701
10	463	210	308	204	134	180	796	550	737	764	714	744
11	251	209	227	134	117	122	848	767	811	795	752	773
12	282	251	270	130	120	123	811	772	792	811	53	741
13	373	268	323	135	126	129	837	712	799	261	87	144
14	448	370	406	151	135	143	758	684	732	223	157	206
15	480	50	302	169	144	159	766	484	597	227	143	205
16	243	86	153	171	161	165	621	181	381	242	143	220
17	209	81	153	184	166	170	358	225	304	289	240	250
18	148	58	84	189	174	180	286	224	252	360	146	236
19	---	---	---	205	182	195	260	160	241	321	224	284
20	---	---	---	383	202	307	245	173	216	334	261	288
21	---	---	---	510	354	455	299	213	238	582	334	471
22	---	---	---	388	333	356	436	299	389	710	78	492
23	---	---	---	424	348	374	592	436	541	351	85	221
24	---	---	---	684	424	526	687	513	599	155	126	136
25	---	---	---	833	658	741	758	671	702	169	126	133
26	---	---	---	960	833	910	803	755	781	277	86	178
27	---	---	---	977	928	960	857	761	819	179	81	119
28	---	---	---	990	940	965	869	224	559	198	152	182
29	---	---	---	1010	961	986	333	197	271	152	133	138
30	---	---	---	1020	965	984	251	194	217	134	113	122
31	---	---	---	---	---	---	306	235	276	124	110	117
MONTH	821	50	461	1020	117	421	1040	131	523	811	53	359

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	121	108	114	274	169	247	543	393	473	863	848	856
2	129	111	117	271	136	150	618	542	587	885	857	870
3	154	124	135	197	149	173	706	614	666	873	843	862
4	194	145	166	166	131	137	734	79	357	858	842	849
5	337	194	257	146	130	139	137	82	104	872	842	855
6	529	337	441	170	139	147	226	84	159	868	846	860
7	579	529	558	278	167	189	300	226	268	880	854	865
8	606	552	586	242	170	190	288	145	209	862	29	394
9	652	558	614	200	163	181	145	107	116	330	158	269
10	685	634	669	284	198	245	150	121	140	411	280	349
11	709	678	697	448	284	378	246	147	169	563	411	485
12	727	697	708	547	447	490	158	105	116	611	513	583
13	760	684	738	561	76	261	117	106	110	652	362	577
14	774	745	759	280	137	230	124	110	117	380	337	364
15	774	756	763	323	205	296	146	119	130	403	352	379
16	797	768	783	447	205	343	184	146	163	430	357	399
17	806	784	792	447	127	168	236	184	211	438	384	409
18	808	789	797	128	115	120	423	236	323	418	380	401
19	827	807	817	140	124	128	684	423	561	423	377	402
20	838	815	822	181	140	152	700	181	580	440	386	423
21	833	766	795	360	181	269	640	317	525	455	401	433
22	804	776	792	560	360	458	717	617	694	483	435	463
23	801	774	784	776	559	695	704	627	686	560	461	489
24	806	165	717	810	773	793	731	704	719	568	499	543
25	778	573	669	835	804	820	780	727	756	643	568	603
26	710	564	672	842	402	507	787	763	777	846	643	716
27	682	310	632	453	400	434	805	756	787	846	637	747
28	491	102	158	577	444	509	839	805	828	721	528	604
29	---	---	---	501	237	388	859	833	848	649	49	316
30	---	---	---	367	182	272	870	843	855	297	39	130
31	---	---	---	393	264	327	---	---	---	211	86	150
MONTH	838	102	591	842	76	317	870	79	434	885	29	537

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	213	34	113	321	178	267	---	---	---	372	185	259
2	241	121	182	412	321	365	---	---	---	542	372	468
3	367	241	305	457	412	449	---	---	---	581	509	538
4	394	362	371	---	---	---	401	372	377	660	581	628
5	---	---	---	449	142	386	513	401	458	712	660	682
6	---	---	---	410	262	329	592	511	536	715	472	664
7	---	---	---	470	374	414	620	507	581	748	549	685
8	---	---	---	400	320	361	620	242	400	799	742	776
9	---	---	---	378	315	352	522	452	487	806	777	789
10	---	---	---	495	363	422	542	395	508	824	785	803
11	---	---	---	595	380	447	537	343	448	823	435	803
12	---	---	---	427	327	407	559	181	440	722	190	501
13	---	---	---	492	361	420	452	146	327	751	438	671
14	---	---	---	506	220	325	547	112	385	694	469	540
15	---	---	---	397	51	279	443	232	386	774	469	669
16	---	---	---	492	99	278	454	374	423	823	772	790
17	---	---	---	561	154	403	565	454	506	798	334	696
18	---	---	---	609	561	576	596	353	553	718	544	624
19	---	---	---	588	458	523	728	416	583	716	558	664
20	---	---	---	590	508	563	706	600	658	741	508	610
21	438	344	367	592	515	554	---	---	---	749	513	697
22	641	438	529	575	517	548	---	---	---	513	189	277
23	764	641	727	636	575	605	---	---	---	265	215	239
24	812	750	775	629	622	626	---	---	---	285	265	278
25	842	801	812	639	621	628	---	---	---	368	278	322
26	849	828	836	639	623	634	---	---	---	531	367	442
27	863	848	856	650	636	643	---	---	---	596	530	560
28	889	720	859	659	634	645	---	---	---	668	595	621
29	789	123	525	663	650	656	601	460	575	682	649	667
30	242	112	165	---	---	---	622	232	334	722	673	701
31	---	---	---	---	---	---	493	96	334	---	---	---
MONTH	889	34	530	663	51	468	728	96	465	824	185	589
YEAR	1040	29	473									

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	24.0	24.5	21.0	20.5	20.5	16.5	15.5	16.0	14.0	13.0	14.0
2	26.5	24.5	25.5	21.0	20.5	20.5	17.5	15.5	16.0	13.0	12.0	12.5
3	26.5	25.0	25.5	21.5	21.0	21.0	18.0	16.5	17.5	12.0	11.0	11.0
4	27.0	25.5	26.0	22.0	21.0	21.5	19.0	18.0	18.5	11.5	10.0	11.0
5	26.5	25.0	25.5	22.5	21.5	22.0	20.0	19.0	19.5	10.0	9.5	10.0
6	26.5	25.0	25.5	21.5	21.0	21.0	20.5	19.0	19.5	12.0	10.0	11.0
7	26.5	25.5	26.0	21.5	21.0	21.0	21.0	19.5	20.5	12.5	11.5	12.0
8	26.0	23.5	24.5	21.5	21.0	21.5	22.5	21.0	21.5	13.5	11.5	12.5
9	23.5	22.0	22.5	22.0	21.5	21.5	22.0	20.0	21.5	15.5	13.5	14.5
10	22.0	20.5	21.0	21.5	20.0	20.5	20.0	16.5	18.0	17.5	15.5	16.5
11	20.5	19.5	20.0	20.0	19.5	20.0	16.5	14.0	15.0	19.5	17.5	18.5
12	20.5	18.5	19.5	19.5	19.0	19.5	14.0	13.0	13.5	20.5	17.5	19.5
13	20.0	19.0	19.5	19.5	19.0	19.5	15.0	14.0	14.5	18.0	16.5	17.0
14	21.0	19.5	20.0	19.5	19.5	19.5	17.0	15.0	16.0	16.5	14.5	16.0
15	21.5	20.5	21.0	20.0	19.5	20.0	18.5	16.5	18.0	14.5	13.5	14.5
16	24.5	21.5	23.0	19.5	19.0	19.5	20.0	18.0	19.0	14.0	13.5	14.0
17	24.5	23.0	24.0	19.5	19.0	19.0	20.0	17.5	18.5	15.5	14.0	14.5
18	23.0	22.0	22.5	19.5	19.0	19.5	17.5	16.0	16.5	19.0	15.5	17.5
19	22.0	22.0	22.0	20.0	19.5	19.5	16.0	15.0	15.5	18.0	14.5	16.0
20	24.5	22.0	23.5	20.0	19.5	19.5	15.5	15.0	15.0	14.5	13.5	14.0
21	24.5	23.5	24.0	19.5	19.0	19.5	16.0	15.5	16.0	14.5	13.0	13.5
22	25.0	23.5	24.0	19.0	18.5	19.0	16.0	15.0	15.5	16.5	14.0	15.0
23	25.5	23.5	24.0	18.5	17.5	18.0	15.5	14.0	15.0	16.5	13.0	15.0
24	24.0	23.5	23.5	17.5	16.5	17.0	15.0	14.0	14.5	13.0	11.5	12.5
25	24.0	23.5	23.5	18.0	16.5	17.5	14.0	13.0	13.5	12.5	11.5	12.0
26	23.5	22.0	22.5	20.0	18.0	19.0	14.0	12.5	13.5	18.0	12.5	15.0
27	22.0	21.5	22.0	21.5	20.0	21.0	14.0	13.0	13.5	18.5	18.0	18.0
28	21.5	21.0	21.0	21.0	19.5	20.0	14.0	13.5	13.5	19.0	18.0	18.5
29	21.0	21.0	21.0	19.5	18.5	19.5	13.5	13.0	13.5	18.0	17.0	17.5
30	21.0	21.0	21.0	18.5	16.5	17.5	13.0	12.5	12.5	17.0	15.5	16.0
31	21.0	21.0	21.0	---	---	---	13.5	13.0	13.5	15.5	15.0	15.5
MONTH	27.0	18.5	23.0	22.5	16.5	20.0	22.5	12.5	16.5	20.5	9.5	14.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	15.0	14.5	15.0	19.0	17.5	18.5	19.5	17.0	18.0	25.0	23.5	24.0
2	15.5	14.5	15.0	17.5	16.5	17.0	20.0	18.0	19.0	24.0	22.0	23.0
3	16.5	15.0	16.0	16.5	15.0	15.5	20.0	19.0	19.5	23.5	22.5	23.0
4	17.5	16.0	17.0	15.0	14.5	14.5	20.0	18.5	19.0	25.0	23.0	24.0
5	17.5	16.0	16.5	15.0	14.5	15.0	18.5	17.5	18.0	25.5	24.0	25.0
6	17.5	16.0	17.0	17.0	15.0	16.0	18.5	17.5	18.0	26.0	25.0	25.5
7	18.0	17.0	17.5	18.0	17.0	17.5	20.5	18.0	19.0	26.0	25.0	25.5
8	17.5	16.0	16.5	17.0	14.0	15.0	20.5	19.0	20.0	25.5	18.0	21.5
9	17.0	16.0	16.5	14.0	13.5	14.0	20.5	19.0	19.5	23.5	20.0	22.0
10	19.5	17.0	18.0	15.5	13.5	14.5	20.5	19.5	20.0	25.5	23.0	24.0
11	21.0	19.5	20.0	17.0	14.5	15.5	20.5	19.5	20.0	25.0	24.0	24.5
12	19.5	17.0	18.0	18.5	17.0	17.5	20.0	19.0	19.5	25.0	24.0	24.0
13	17.0	16.0	16.5	19.0	17.0	18.0	20.5	19.5	20.0	26.0	24.5	25.5
14	17.0	16.0	16.5	19.5	17.5	18.5	21.0	20.0	20.5	27.0	25.0	26.0
15	19.0	17.0	18.0	19.5	17.5	18.5	21.0	20.5	20.5	27.5	26.0	27.0
16	20.0	19.0	19.5	19.0	17.5	18.0	22.0	20.5	21.0	28.0	26.5	27.0
17	19.0	18.0	18.5	18.5	18.0	18.5	23.0	21.5	22.0	27.5	26.5	26.5
18	18.5	16.5	17.5	19.0	18.5	18.5	23.0	22.0	22.5	26.5	26.0	26.0
19	19.5	18.0	18.5	20.0	19.0	19.5	24.0	23.0	23.5	26.0	24.0	25.5
20	20.5	18.0	19.0	20.5	19.5	20.0	24.0	20.0	23.0	26.0	24.0	25.0
21	20.5	18.5	19.5	22.0	20.5	21.0	23.5	20.5	22.0	26.0	24.0	25.0
22	20.0	18.0	19.0	23.5	21.0	22.0	23.5	23.0	23.5	26.5	24.5	25.5
23	21.5	19.5	20.0	23.5	22.5	23.0	23.0	21.0	22.0	27.0	25.0	26.0
24	21.5	19.5	20.5	23.0	22.5	23.0	21.5	19.5	20.5	27.0	25.0	26.0
25	21.0	19.5	20.0	23.5	22.0	22.5	21.5	19.5	20.5	27.5	25.5	26.5
26	20.0	19.5	19.5	23.5	22.5	23.0	22.0	20.0	21.0	28.0	26.5	27.0
27	21.5	20.0	20.5	23.0	22.5	23.0	22.5	21.0	21.5	27.5	26.0	27.0
28	21.0	19.0	19.5	22.5	20.0	21.0	23.0	21.0	22.0	28.0	26.0	27.0
29	---	---	---	20.0	16.0	18.0	24.0	22.0	23.0	27.5	23.0	25.0
30	---	---	---	16.5	15.5	16.0	25.5	23.0	24.0	24.5	22.0	23.0
31	---	---	---	17.5	16.0	16.5	---	---	---	25.0	22.5	23.5
MONTH	21.5	14.5	18.0	23.5	13.5	18.5	25.5	17.0	21.0	28.0	18.0	25.0

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	21.5	23.0	26.5	24.5	25.5	---	---	---	28.5	27.0	27.5
2	26.5	23.0	24.5	27.5	25.5	26.5	---	---	---	29.5	27.0	28.5
3	28.0	26.0	27.0	28.5	26.5	27.5	---	---	---	30.5	28.0	29.0
4	27.5	25.5	26.5	28.5	26.0	27.5	30.0	29.0	29.5	30.5	28.5	29.5
5	26.5	25.0	25.5	28.0	26.5	27.0	30.5	28.5	29.5	29.5	29.0	29.0
6	26.5	25.0	25.5	29.0	26.5	27.5	30.5	29.0	29.5	29.0	28.0	28.5
7	27.5	25.5	26.5	29.0	27.0	28.0	29.5	29.0	29.5	29.0	27.5	28.0
8	27.5	26.0	26.5	29.5	27.5	28.5	30.5	28.5	29.5	29.0	27.5	28.0
9	27.5	26.0	27.0	30.0	27.5	28.5	30.5	28.5	29.5	29.5	27.5	28.0
10	27.5	26.5	27.0	30.5	28.0	29.0	30.0	28.5	29.5	29.0	27.0	28.0
11	27.0	23.5	25.0	30.0	28.0	29.0	29.5	28.5	29.0	28.5	27.5	28.0
12	26.0	24.0	25.0	30.5	28.5	29.5	29.5	28.0	28.5	28.5	26.5	27.5
13	26.5	24.5	25.5	30.0	28.5	29.0	28.5	27.5	28.5	28.5	27.0	28.0
14	26.0	25.0	25.5	29.0	28.0	28.5	28.5	27.0	28.0	29.0	27.5	28.0
15	26.0	25.0	25.5	---	---	---	29.5	27.5	28.0	29.0	27.5	28.0
16	25.5	25.0	25.5	---	---	---	29.5	27.5	28.5	29.5	28.0	28.5
17	26.0	25.0	25.5	---	---	---	30.5	28.0	29.0	30.0	28.0	29.0
18	---	---	---	---	---	---	29.5	28.0	29.0	29.5	28.0	28.5
19	---	---	---	---	---	---	29.5	27.5	28.5	30.0	28.0	29.0
20	---	---	---	---	---	---	30.0	28.0	29.0	29.5	28.5	29.0
21	28.0	27.5	28.0	---	---	---	31.0	28.5	29.5	28.5	27.5	28.0
22	29.0	26.5	27.5	---	---	---	30.5	28.5	29.5	27.5	22.5	25.0
23	29.0	27.0	28.0	---	---	---	29.5	28.0	28.5	22.5	21.5	22.0
24	29.5	27.5	28.5	---	---	---	29.5	28.0	28.5	22.5	20.5	21.5
25	29.5	27.5	28.5	---	---	---	30.0	28.0	29.0	24.0	21.5	22.5
26	29.5	27.0	28.5	---	---	---	29.5	27.5	28.5	25.5	23.5	24.5
27	29.5	27.5	28.5	---	---	---	29.5	28.0	29.0	26.0	24.5	25.0
28	29.0	27.5	28.5	---	---	---	30.0	28.0	29.0	26.5	25.0	26.0
29	28.0	24.0	26.0	---	---	---	30.0	28.5	29.0	26.5	25.0	26.0
30	25.0	24.0	24.5	---	---	---	29.5	28.0	29.0	27.0	26.0	26.5
31	---	---	---	---	---	---	29.0	26.0	28.0	---	---	---
MONTH	29.5	21.5	26.5	30.5	24.5	28.0	31.0	26.0	29.0	30.5	20.5	27.0
YEAR	31.0	9.5	22.0									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.6	6.6	7.1	5.9	5.1	5.8	8.2	6.7	7.4	8.6	8.2	8.3
2	8.1	6.7	7.3	5.7	5.2	5.4	7.6	7.1	7.3	8.8	8.4	8.7
3	7.9	6.9	7.3	5.2	4.7	5.0	8.1	6.9	7.4	9.3	8.5	8.8
4	8.0	6.7	7.2	4.9	4.6	4.8	6.9	6.3	6.6	8.9	8.5	8.7
5	8.3	6.7	7.3	6.0	4.3	5.0	6.3	6.1	6.2	10.5	8.9	9.7
6	8.4	6.8	7.5	5.5	5.2	5.3	6.9	6.1	6.8	9.7	9.0	9.5
7	8.5	3.9	6.4	5.2	4.8	5.0	7.0	6.5	6.8	9.2	8.8	9.0
8	7.2	3.8	5.8	5.1	4.7	4.9	6.5	6.0	6.3	9.1	8.8	9.0
9	6.5	5.7	6.2	6.7	4.8	5.7	6.2	5.8	6.1	8.9	8.5	8.7
10	7.9	6.4	7.1	7.6	4.9	6.2	7.2	6.2	6.6	8.5	7.8	8.1
11	8.5	7.9	8.2	7.2	4.9	5.5	7.9	6.5	7.3	7.8	7.3	7.5
12	8.5	8.2	8.4	6.5	5.0	5.5	8.4	7.9	8.1	7.5	7.1	7.3
13	8.5	8.0	8.4	6.1	5.2	5.5	8.1	7.3	7.9	---	---	---
14	8.7	8.2	8.4	6.3	5.6	5.9	7.6	6.8	7.3	---	---	---
15	9.9	7.9	8.5	6.8	6.0	6.5	6.9	6.1	6.4	---	---	---
16	7.9	6.8	7.3	7.5	6.8	7.1	7.1	6.2	6.6	---	---	---
17	8.7	6.7	7.5	7.2	6.9	7.0	7.1	6.2	6.5	---	---	---
18	8.8	8.2	8.7	8.7	7.2	7.9	7.5	7.1	7.3	---	---	---
19	---	---	---	9.6	6.2	7.2	7.9	7.5	7.7	---	---	---
20	---	---	---	7.3	6.5	6.9	8.0	7.6	7.7	---	---	---
21	---	---	---	7.8	5.6	6.4	7.6	7.2	7.4	---	---	---
22	---	---	---	7.8	6.7	7.0	7.3	7.1	7.2	---	---	---
23	---	---	---	7.2	6.6	6.8	7.7	7.2	7.5	9.3	8.6	8.7
24	---	---	---	11.4	7.2	9.3	7.8	7.4	7.6	9.5	9.3	9.4
25	---	---	---	12.3	6.5	9.2	8.2	7.6	7.9	9.6	9.2	9.5
26	---	---	---	6.9	6.2	6.5	8.4	8.0	8.1	9.2	8.5	8.9
27	---	---	---	6.3	5.9	6.1	8.4	8.0	8.2	8.6	7.6	8.0
28	---	---	---	6.5	5.9	6.2	9.0	8.0	8.4	8.1	7.5	7.7
29	---	---	---	6.9	6.3	6.6	8.9	8.3	8.6	8.1	8.0	8.0
30	---	---	---	7.5	6.4	7.0	9.0	8.9	9.0	8.4	8.1	8.2
31	---	---	---	---	---	---	8.9	8.6	8.7	8.5	8.3	8.4
MONTH	9.9	3.8	7.5	12.3	4.3	6.3	9.0	5.8	7.4	10.5	7.1	8.6

08074000 BUFFALO BAYOU AT HOUSTON, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	8.3	8.4	8.0	7.6	7.6	9.6	8.7	9.2	8.9	7.1	8.1
2	8.5	8.4	8.4	8.6	8.0	8.4	9.0	7.9	8.7	9.9	7.2	8.4
3	8.4	8.1	8.2	9.0	8.4	8.6	7.9	6.6	6.9	9.6	7.3	8.3
4	8.2	7.9	8.1	9.1	8.9	9.0	7.9	6.5	7.3	10.0	7.2	8.5
5	8.3	7.5	8.0	9.0	8.9	9.0	7.4	6.6	6.9	9.1	7.4	8.2
6	8.0	7.5	7.8	8.9	8.6	8.8	7.3	6.6	6.9	9.0	7.0	8.0
7	7.8	7.6	7.7	8.6	7.4	8.0	7.2	6.6	6.9	8.4	7.0	7.9
8	7.8	6.7	7.3	9.1	7.8	8.7	7.1	6.7	6.9	8.8	6.6	7.1
9	8.0	7.2	7.7	9.3	8.8	9.0	6.8	6.5	6.7	6.8	6.0	6.4
10	7.9	7.5	7.7	9.1	8.6	8.8	6.8	6.3	6.6	6.5	6.1	6.2
11	7.7	7.1	7.4	8.6	7.7	8.3	7.0	5.7	6.3	6.9	5.3	6.2
12	8.1	7.2	7.6	7.8	7.3	7.7	7.2	6.8	7.0	5.9	4.8	5.4
13	8.6	7.8	8.1	11.1	7.1	8.4	7.3	6.8	7.0	6.2	5.2	5.8
14	8.5	8.3	8.4	7.8	6.9	7.2	6.9	6.6	6.7	5.8	5.2	5.5
15	8.4	7.8	8.1	8.9	6.9	7.3	6.7	6.4	6.5	5.3	5.0	5.1
16	8.0	7.6	7.8	8.9	7.0	7.4	6.6	6.3	6.4	5.2	4.8	5.0
17	8.2	7.6	7.8	8.4	7.3	8.1	6.3	5.9	6.1	4.9	4.6	4.7
18	8.7	7.9	8.3	8.8	8.1	8.4	5.9	4.9	5.4	4.7	4.4	4.6
19	8.5	8.1	8.2	8.4	8.0	8.2	5.9	4.9	5.4	4.7	4.2	4.4
20	8.7	8.1	8.3	8.3	7.8	8.1	8.2	4.7	5.7	4.7	4.4	4.5
21	8.7	7.8	8.2	7.8	6.6	7.3	5.8	4.9	5.4	4.7	4.3	4.5
22	8.7	7.7	8.2	7.7	6.4	7.0	6.3	5.5	6.0	4.8	4.4	4.6
23	8.7	7.8	8.2	7.4	6.3	6.8	7.1	5.9	6.5	4.9	4.4	4.6
24	9.5	6.7	7.6	7.3	6.2	6.8	7.7	6.8	7.2	4.7	4.4	4.5
25	7.0	5.7	6.4	7.6	6.2	7.0	8.2	7.2	7.6	4.6	4.2	4.4
26	7.5	6.1	7.1	8.2	6.8	7.8	8.5	7.3	7.9	4.7	4.1	4.4
27	8.7	6.6	7.3	8.6	7.7	8.1	9.0	7.3	8.1	4.8	4.0	4.4
28	8.0	7.2	7.6	8.9	7.6	8.0	9.0	7.4	8.2	4.6	2.8	3.8
29	---	---	---	10.0	7.9	8.6	9.3	7.2	8.1	4.8	3.9	4.2
30	---	---	---	9.9	8.3	9.3	9.9	6.9	8.1	4.8	3.9	4.2
31	---	---	---	9.9	8.9	9.4	---	---	---	4.4	4.1	4.2
MONTH	9.5	5.7	7.9	11.1	6.2	8.1	9.9	4.7	7.0	10.0	2.8	5.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.1	4.3	4.5	---	---	---	---	---	---	4.9	3.9	4.5
2	4.5	4.3	4.4	---	---	---	6.2	5.2	6.0	5.9	4.9	5.3
3	4.6	4.4	4.5	---	---	---	5.3	4.9	5.2	6.1	5.1	5.5
4	4.9	4.5	4.7	---	---	---	5.8	4.8	5.4	6.8	5.5	6.0
5	4.8	4.6	4.7	6.2	4.6	4.8	6.4	5.1	5.6	6.8	5.6	6.1
6	4.7	4.4	4.6	4.8	4.0	4.3	7.5	5.1	6.1	6.1	4.1	5.4
7	4.6	4.4	4.5	5.7	4.4	5.1	7.3	5.4	6.3	7.2	4.4	5.7
8	4.6	4.3	4.4	6.1	5.4	5.8	5.9	3.8	4.6	7.8	5.7	6.6
9	4.5	4.2	4.3	6.4	5.5	6.0	6.0	4.9	5.4	8.3	5.8	6.9
10	4.3	4.1	4.2	6.2	5.0	5.6	6.0	4.4	5.3	8.3	5.8	6.9
11	4.4	4.0	4.3	6.4	5.0	5.7	5.0	3.1	4.1	7.9	5.4	6.9
12	---	---	---	7.3	5.0	5.9	5.4	4.1	4.7	6.4	4.3	5.2
13	---	---	---	5.8	3.3	4.5	6.4	4.2	4.9	6.5	4.5	5.7
14	---	---	---	5.0	2.8	3.8	5.7	4.8	5.2	6.1	3.4	5.2
15	---	---	---	6.5	3.5	4.5	5.3	4.5	4.9	6.2	2.9	5.0
16	---	---	---	5.4	4.2	4.7	5.8	5.2	5.5	6.2	4.9	5.4
17	---	---	---	5.9	4.5	5.2	6.1	5.2	5.5	6.8	4.3	5.2
18	---	---	---	7.3	4.9	5.9	6.2	4.5	5.4	4.7	3.7	4.2
19	---	---	---	6.5	4.2	5.5	5.1	3.8	4.5	4.9	3.0	4.0
20	---	---	---	7.3	4.5	5.9	5.8	5.0	5.5	4.8	3.6	4.2
21	---	---	---	7.2	4.7	5.8	6.6	5.5	6.0	5.0	3.7	4.7
22	---	---	---	6.7	4.7	5.5	6.4	4.1	5.4	5.5	2.6	4.3
23	---	---	---	6.8	4.7	5.6	5.0	2.8	4.2	6.7	5.5	6.1
24	---	---	---	6.8	4.8	5.6	5.7	4.8	5.3	6.9	6.5	6.8
25	---	---	---	7.2	4.8	5.8	5.6	4.6	5.2	6.8	6.1	6.6
26	---	---	---	7.2	4.9	5.8	5.9	5.4	5.7	6.7	6.0	6.2
27	---	---	---	7.5	4.2	5.8	6.1	4.0	5.7	6.5	5.9	6.2
28	---	---	---	8.3	4.9	6.2	6.7	4.4	5.4	6.9	5.8	6.2
29	---	---	---	6.9	4.8	5.7	6.6	4.3	5.9	6.8	5.7	6.1
30	---	---	---	6.1	4.6	5.3	5.4	2.5	3.7	6.6	5.3	5.8
31	---	---	---	5.9	4.3	4.5	7.2	4.2	5.2	---	---	---
MONTH	5.1	4.0	4.5	8.3	2.8	5.4	7.5	2.5	5.3	8.3	2.6	5.6
YEAR	12.3	2.5	6.6									

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.--7.50 mi².

PERIOD OF RECORD.--April 1964 to September 1986 (daily mean discharges). October 1986 to September 1992 (annual maximum discharge). October 1992 to current (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.

REMARKS.--Recording rain gage at station. Radio telemeter at station.

AVERAGE DISCHARGE.--22 years, (water years 1965-86) 8.08 ft³/s, (5,850 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,780 ft³/s Mar. 4, 1992 (elevation, 80.73 ft); no flow at times.

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

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 15	1530	512	74.36	Jan. 26	2100	624	75.02
Oct. 17	2130	759	75.71	Mar. 13	1000	462	74.03
Oct. 18	0500	773	75.78	Apr. 4	1400	570	74.71
Jan. 12	2330	477	74.13	July 16	1830	577	74.75
Jan. 18	0900	551	74.60				

08074250 BRICKHOUSE GULLEY AT COSTA RICA STREET, HOUSTON, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°49'40", long 95°28'09", Harris County, Hydrologic Unit 12040104, at downstream side of bridge at Costa Rica Street in northwest Houston and 1.0 mi upstream from Whiteoak Bayou.

DRAINAGE AREA.--11.4 mi².

PERIOD OF RECORD.--August 1964 to September 1981 (daily discharge); October 1982 to September 1983 (peaks above base discharge or annual maximum); October 1983 to September 1992 (annual maximum); October 1992 to current year (peak discharges greater than base discharge).
Water-quality records.--Chemical and biochemical analyses: October 1981 to September 1982.

REVISED RECORDS.--WDR 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.

REMARKS.--Low flow is partially sustained by sewage effluent. No known diversion above station. Recording rain gage at station. Stage and rainfall telemeter owned and operated by Harris County Flood Control District at station.

AVERAGE DISCHARGE.--17 years (1965-1981), 14.0 ft³/s, 10,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,580 ft³/s Mar. 04, 1992, elevation, 71.26 ft; no flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges above base discharge of 1,600 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 15	1545	2,300	63.23	Mar. 13	0815	2,490	63.66
Oct. 18	0515	2,690	64.08	Apr. 4	0915	2,340	63.33
Dec. 16	0915	1,850	62.15	May 8	0800	1,990	62.51
Jan. 12	2215	2,700	64.11	May 30	0730	1,900	62.27
Jan. 18	0845	2,050	62.66	Jun. 1	0230	1,830	62.11
Jan. 26	1830	2,200	63.00	Sept. 11	1830	1,830	62.10
Feb. 27	2130	1,640	61.59				

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 mi². Prior to Oct. 1, 1976, 84.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1936 to current year.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 7.35 ft below sea level, adjustment of 1973; unadjusted for land-surface subsidence. Prior to June 17, 1936, nonrecording gage, and June 17, 1936, to Apr. 28, 1965, water-stage recorder at site 480 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Low flow is sustained by sewage effluent and industrial waste water. No diversions above station. Satellite telemeter at station.

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 ft³/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 ft³/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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 15	1630	4,990	28.20	Jan. 18	1000	4,840	27.97
Oct. 17	2230	11,800	37.20	Jan. 26	2130	7,420	31.72
Oct. 18	0700	11,000	36.24	Mar. 13	0930	6,250	30.08
Jan. 12	2400	5,080	28.34	Apr. 4	1400	5,240	28.58

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

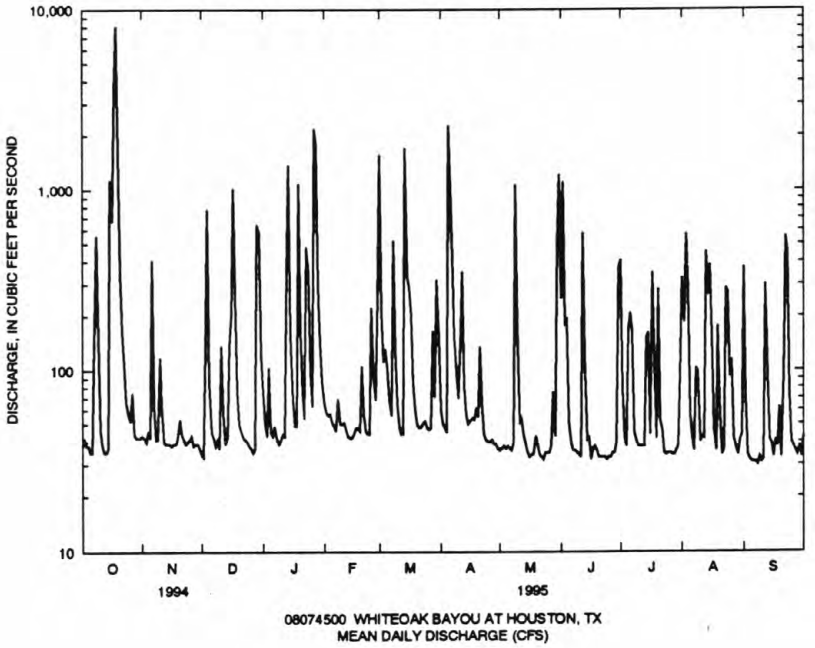
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	42	33	50	58	213	50	37	1100	78	185	70
2	41	40	127	43	56	111	48	38	181	42	566	34
3	38	46	776	103	57	131	45	37	189	38	284	32
4	38	42	85	45	51	103	2270	38	51	168	56	31
5	35	403	45	43	49	69	1010	37	39	209	42	31
6	35	63	42	49	46	56	422	36	36	163	36	31
7	139	41	38	41	69	519	153	40	36	45	103	30
8	553	41	41	39	50	130	96	1060	35	40	98	33
9	148	117	37	41	50	65	70	177	34	38	40	31
10	46	65	136	44	51	49	139	50	33	38	43	32
11	38	40	58	43	47	44	352	55	573	38	42	301
12	35	39	39	356	43	44	81	43	122	38	450	93
13	35	39	42	1360	42	1690	57	39	41	151	262	41
14	37	39	138	158	42	332	50	35	42	162	382	39
15	1130	38	201	68	44	284	52	33	32	44	155	33
16	670	39	1010	49	48	203	54	34	37	346	47	41
17	3580	39	260	49	48	84	53	34	38	107	36	38
18	8060	42	77	1080	46	61	62	43	36	42	175	62
19	1590	53	50	167	105	50	55	40	33	282	55	33
20	342	44	46	75	57	48	135	34	33	52	34	93
21	164	41	42	54	46	48	66	33	33	47	37	551
22	108	39	41	481	44	51	44	32	33	35	286	453
23	66	40	40	354	44	52	41	35	32	34	269	73
24	56	41	38	96	223	48	40	35	33	35	92	40
25	52	43	37	63	95	47	40	35	33	35	114	38
26	74	38	35	2170	68	48	41	38	35	34	42	36
27	44	39	37	1760	254	165	39	75	35	34	37	34
28	42	39	638	291	1550	71	39	43	40	36	34	38
29	42	37	577	143	---	316	37	504	369	38	41	33
30	42	34	120	87	---	152	36	1210	403	93	44	43
31	43	---	75	65	---	60	---	251	---	325	371	---
TOTAL	17361	1703	4961	9467	3383	5344	5677	4231	3767	2867	4458	2468
MEAN	560	56.8	160	305	121	172	189	136	126	92.5	144	82.3
MAX	8060	403	1010	2170	1550	1690	2270	1210	1100	346	566	551
MIN	35	34	33	39	42	44	36	32	32	34	34	30
AC-FT	34440	3380	9840	18780	6710	10600	11260	8390	7470	5690	8840	4900

08074500 WHITEOAK BAYOU AT HOUSTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	87.9	105	95.5	115	113	89.1	88.7	123	118	79.0	70.8	87.3
MAX	560	774	378	437	472	517	408	558	556	439	535	578
(WY)	1995	1947	1992	1944	1992	1992	1991	1989	1973	1942	1983	1941
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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	59527		65687			
ANNUAL MEAN	163		180		97.9	
HIGHEST ANNUAL MEAN					267	1992
LOWEST ANNUAL MEAN					10.9	1951
HIGHEST DAILY MEAN	8060	Oct 18	8060	Oct 18	10700	May 18 1989
LOWEST DAILY MEAN	32	Jun 16	30	Sep 7	.20	Aug 7 1940
ANNUAL SEVEN-DAY MINIMUM	35	Sep 18	31	Sep 3	.26	Aug 12 1951
INSTANTANEOUS PEAK FLOW			11800	Oct 17	25100	Mar 4 1992
INSTANTANEOUS PEAK STAGE			37.20	Oct 17	50.43	Mar 4 1992
ANNUAL RUNOFF (AC-FT)	118100		130300		70950	
10 PERCENT EXCEEDS	311		355		200	
50 PERCENT EXCEEDS	47		46		26	
90 PERCENT EXCEEDS	35		35		2.2	



08074500 WHITEOAK BAYOU AT HOUSTON, TX
MEAN DAILY DISCHARGE (CFS)

08074500 WHITEOAK BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1968 to current year. Pesticide analyses: February 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BOD OXYGEN DEMAND, BIOCHEM CARBON. 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
MAR 13...	1030	5610	118	7.2	16.5	50	63	9.8	100	3.1	1.1	19000
MAY 22...	1320	33	860	8.9	28.5	8	2.8	18.4	239	3.1	2.7	520
AUG 03...	0740	345	225	7.3	26.0	70	57	8.0	99	4.3	3.4	1900

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
MAR 13...	27000	36	0	12	1.5	8.2	0.6	2.3	--	37	4.5	9.0
MAY 22...	88	180	19	56	10	110	4	7.4	28	160	33	110
AUG 03...	9300	63	0	21	2.5	20	1	4.3	--	67	9.2	18

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR 13...	<0.10	3.7	67	108	12	96	0.470	0.470	0.020	0.490	0.490	0.230
MAY 22...	0.50	18	464	1	4	0	3.74	3.74	0.160	3.90	3.90	0.040
AUG 03...	0.20	9.1	130	117	15	102	0.910	0.910	0.040	0.950	0.950	0.100

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)
MAR 13...	0.47	0.70	0.300	0.270	0.83	20	2	39	<0.5	1.0	<5	<3
MAY 22...	0.46	0.50	1.00	1.00	3.1	5.8	9	170	<0.5	<1.0	<5	<3
AUG 03...	0.50	0.60	0.480	0.460	1.4	10	4	92	<0.5	<1.0	<5	<3

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
MAR 13...	<10	67	30	<4	8	<0.1	<10	<10	<1	<1.0	50	<6
MAY 22...	<10	24	30	25	8	<0.1	<10	10	1	<1.0	390	<6
AUG 03...	<10	37	<10	9	2	<0.1	<10	<10	<1	2.0	100	<6

DATE	ZINC, DIS-SOLVED (UG/L AS ZN)	AME-TRYNE TOTAL (UG/L)	ATRA-ZINE WATER UNFLTRD REC (UG/L)	CYAN-AZINE TOTAL (UG/L)	METHO-MYL TOTAL (UG/L)	PROME-TONE TOTAL (UG/L)	PROME-TRYNE TOTAL (UG/L)	PRO-PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SIMA-ZINE TOTAL (UG/L)	SIME-TRYNE TOTAL (UG/L)
MAR 13...	11	<0.10	3.3	<0.20	<0.5	<0.20	<0.10	0.20	<0.5	<0.5	<0.20	<0.10
MAY 22...	18	<0.10	0.1	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10
AUG 03...	9	<0.10	0.3	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10

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, 3 miles downstream from station 08074500, and 700 ft. upstream from Buffalo Bayou.

DRAINAGE AREA.--Not determined.

WATER-STAGE RECORDS

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Water-stage recorder and data logger. Datum of gage is sea level, 1978 adjustment, unadjusted for land--surface subsidence.

REMARKS.--Records good. Mostly tidal, affected by local runoff. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height 21.60 ft Oct. 17, 1994 at 2215 hours; minimum, minus 1.57 ft Aug. 14, 1994 at 2215 hours.

EXTREMES FOR CURRENT YEAR.--Maximum gage height 21.60 ft Oct. 17 at 2215 hours; minimum, .86 ft Mar. 8 at 1000 hours.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.64	3.37	4.90	3.14	4.78	2.70	4.64	1.69	3.74	---	3.53	2.11
2	5.24	3.97	5.37	3.89	6.37	2.73	3.83	1.71	---	2.78	4.13	2.89
3	5.06	3.52	5.25	3.62	7.64	3.50	4.30	2.32	3.93	2.40	4.03	2.74
4	4.94	3.62	5.47	3.58	4.75	2.23	3.83	1.79	2.56	1.30	4.16	2.94
5	4.97	3.15	6.13	3.16	4.23	2.35	4.61	3.16	2.87	1.51	4.15	3.02
6	5.34	3.60	4.78	2.62	4.47	2.95	4.95	3.07	3.78	---	4.68	2.84
7	5.80	3.90	4.80	3.47	4.45	2.49	3.87	2.15	3.91	1.97	4.69	1.66
8	6.37	3.44	5.03	3.42	4.04	2.80	3.64	2.18	---	---	2.78	.86
9	3.98	1.62	4.99	3.07	4.21	2.38	3.75	2.19	3.94	---	4.06	2.42
10	3.75	2.23	3.86	2.62	3.26	1.03	3.84	2.20	3.89	1.95	4.50	2.72
11	4.05	2.60	4.24	3.19	3.55	1.25	4.08	2.27	3.30	1.65	4.70	2.87
12	4.16	2.56	4.91	3.68	4.29	2.71	10.00	2.35	3.79	1.25	4.93	3.21
13	4.12	2.58	5.18	4.15	4.33	2.16	10.65	3.49	4.24	2.49	12.84	4.22
14	4.34	2.69	4.89	3.63	4.67	2.75	3.49	1.16	4.30	2.69	5.67	3.21
15	12.03	3.40	4.48	3.18	4.71	2.87	3.39	1.36	4.36	2.81	4.92	3.03
16	7.05	5.00	3.99	2.34	8.71	3.95	4.31	2.55	3.87	---	4.16	2.63
17	21.60	5.52	4.68	2.98	4.41	2.15	4.80	3.16	---	1.47	4.31	3.22
18	21.60	14.82	4.55	2.93	4.08	2.17	11.28	2.82	3.57	1.84	4.50	3.37
19	14.82	9.40	4.73	3.39	4.66	2.89	2.82	.93	3.46	2.07	4.33	3.06
20	9.40	6.78	4.82	3.47	4.95	3.46	3.61	2.22	3.26	1.69	4.70	3.09
21	6.98	4.80	4.66	2.35	4.95	2.87	3.64	2.10	3.24	1.47	4.24	2.26
22	5.56	3.96	4.58	2.99	4.44	1.87	5.42	2.72	3.70	1.68	4.49	2.27
23	5.44	3.86	4.59	2.25	3.73	2.41	4.44	1.77	3.71	1.84	4.34	---
24	5.32	3.87	4.55	3.13	3.90	2.53	4.00	2.10	3.42	1.62	4.56	---
25	5.18	3.10	4.79	3.02	3.69	2.38	4.12	2.38	4.08	2.13	5.17	3.26
26	4.23	2.98	4.34	3.27	3.65	2.13	14.85	2.61	4.26	2.80	5.12	3.42
27	4.76	3.63	5.01	3.32	4.08	2.27	14.59	4.59	5.64	2.35	4.51	2.81
28	4.92	3.80	4.39	2.76	6.87	3.45	4.59	2.44	9.32	3.35	5.00	3.34
29	5.32	4.01	4.64	3.05	6.05	2.31	3.56	2.12	---	---	5.32	3.68
30	5.55	4.27	4.26	2.22	4.18	2.08	3.50	2.30	---	---	4.84	3.62
31	5.05	3.87	---	---	4.67	2.72	3.80	2.61	---	---	5.02	3.37
MONTH	21.60	1.62	6.13	2.22	8.71	1.03	14.85	.93	---	---	12.84	---

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.95	3.08	4.61	2.82	7.83	3.07	3.86	2.22	6.03	4.22	4.78	2.70
2	4.67	3.01	4.65	1.89	4.63	2.74	3.97	1.96	6.63	4.69	4.53	2.66
3	5.11	3.18	5.29	3.03	4.71	2.89	4.13	2.36	5.09	3.10	4.53	2.66
4	13.49	3.35	4.83	3.17	4.74	2.97	5.61	3.38	4.37	2.52	4.62	2.81
5	9.01	5.83	4.50	2.42	4.64	2.91	5.53	3.30	4.35	2.77	5.55	2.69
6	6.29	4.03	5.08	3.05	4.56	3.16	4.43	2.59	5.24	3.02	5.68	3.21
7	5.10	3.31	5.33	3.56	4.78	3.30	3.92	2.10	5.26	3.18	5.14	3.35
8	5.19	3.41	9.29	4.74	4.67	3.31	3.78	1.93	4.88	3.32	4.93	3.45
9	5.44	3.81	4.76	3.22	4.99	3.34	4.00	2.04	5.26	3.30	4.71	3.33
10	6.71	4.22	4.23	2.93	4.82	2.93	3.82	2.04	5.04	3.20	4.79	3.37
11	6.63	2.83	4.19	2.85	5.75	2.11	3.63	1.65	5.34	3.31	5.31	3.49
12	4.78	2.95	4.75	2.81	3.27	1.31	3.62	1.33	5.69	3.51	4.66	3.36
13	4.35	3.29	5.38	3.27	4.19	1.49	4.09	1.73	5.34	3.39	4.71	2.97
14	4.95	3.34	5.42	3.52	4.22	2.20	4.92	2.29	5.16	3.77	4.47	3.31
15	5.27	3.71	4.81	2.61	4.35	2.35	4.49	2.73	4.73	3.51	4.74	3.50
16	5.17	3.52	5.07	2.73	4.69	2.83	5.46	2.63	4.67	3.29	4.91	3.31
17	5.59	3.33	5.72	3.31	5.21	3.21	3.95	2.57	4.62	3.10	4.75	2.73
18	5.39	2.92	4.99	2.85	5.96	4.14	3.68	2.32	4.70	2.83	4.61	3.13
19	5.57	3.15	3.69	1.73	4.56	3.02	3.63	2.12	4.53	2.71	5.02	3.25
20	6.63	3.52	4.27	2.17	3.74	2.43	3.96	2.10	4.34	2.60	4.66	3.17
21	5.17	2.95	4.66	3.09	3.53	2.22	3.75	2.10	4.61	2.49	4.93	3.10
22	5.02	2.98	4.65	3.34	3.42	1.86	3.76	2.02	4.66	2.63	3.98	2.84
23	4.07	1.85	4.89	3.53	3.68	1.91	3.79	1.98	5.16	3.10	4.74	3.02
24	3.82	1.56	4.79	3.20	3.96	2.09	4.23	2.17	4.77	3.09	5.09	3.48
25	4.59	3.16	4.50	2.81	3.96	2.09	4.05	2.15	4.67	2.91	5.31	3.94
26	5.23	3.55	4.55	2.73	3.97	1.73	3.95	2.23	4.82	3.11	5.26	3.53
27	4.63	3.23	5.26	3.11	4.17	2.24	3.79	2.06	4.78	2.99	5.13	3.45
28	4.45	2.66	4.86	3.01	4.43	2.24	3.89	2.13	4.33	3.13	4.99	3.24
29	5.15	3.21	7.73	2.61	5.38	2.01	4.13	2.31	4.18	2.90	5.21	3.88
30	4.63	2.85	10.46	2.83	5.46	3.00	5.66	3.47	4.58	3.49	5.76	4.11
31	---	---	4.70	2.85	---	---	6.22	4.72	5.75	4.07	---	---
MONTH	13.49	1.56	10.46	1.73	7.83	1.31	6.22	1.33	6.63	2.49	5.76	2.66

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

WATER QUALITY RECORDS

LOCATION.--Lat. 29°45'59", Long. 95°21'30", Harris County, Hydrologic Unit 12040104, on right bank, at Main street bridge, 3 miles downstream from station 08074500, 700 ft upstream from Buffalo Bayou.

DRAINAGE AREA.-- Not determined.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1992 to current year.
WATER TEMPERATURE: May 1992 to current year.
DISSOLVED OXYGEN: May 1992 to current year.

INSTRUMENTATION:--Since May 1992, a three-parameter water-quality monitor continuously records specific conductance, water temperature and dissolved oxygen at this station.

REMARKS.--Interruptions in the record were due to malfunctions of the instrumentation. Due to tidal effects, backwater, probe location, 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 1,740 microsiemens on May 23, 1994; minimum, 12 microsiemens June, 4, 1994.
WATER TEMPERATURE: Maximum, 34.0°C on August 10, 1993; minimum, 9.0 °C February 11, 1994.
DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days in water year 1995; minimum, 0.1 mg/L, July 20 1994.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 1,340 microsiemens December 2; minimum, 41 microsiemens October 19.
WATER TEMPERATURE: Maximum 34.0°C on July 18-19, 28-29; minimum, 10.5°C January 5.
DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days during the year; minimum 0.1 mg/L July 20.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	669	591	628	1010	745	905	936	789	844	967	636	795
2	668	588	629	1100	874	944	1340	327	1030	1050	772	854
3	669	542	602	1010	743	897	467	247	372	891	521	673
4	634	537	586	947	605	843	605	467	537	961	691	795
5	624	556	585	836	419	571	652	559	627	903	770	844
6	629	567	597	640	441	564	739	652	696	1050	867	949
7	627	154	423	815	573	680	836	717	762	1040	878	935
8	420	46	194	850	615	746	879	836	856	1080	885	939
9	336	116	215	1140	474	769	883	875	880	1100	881	971
10	396	301	340	652	476	539	877	862	870	1070	914	982
11	496	310	413	651	510	566	862	850	856	1070	907	980
12	531	318	465	736	564	633	852	833	842	1060	92	936
13	551	243	469	746	558	654	835	769	809	288	73	213
14	569	500	530	774	626	698	876	312	738	500	118	358
15	570	43	305	838	692	736	443	312	386	688	417	561
16	123	43	80	793	700	734	492	127	314	806	597	706
17	125	84	93	788	722	755	353	200	279	915	742	826
18	---	---	---	815	741	770	510	350	438	893	81	441
19	197	41	78	792	662	724	625	495	560	555	148	369
20	456	147	310	873	694	778	730	602	663	637	426	553
21	611	421	541	891	682	761	743	685	713	883	591	714
22	788	311	570	878	712	780	891	709	762	858	129	615
23	775	366	647	842	731	792	792	740	761	338	158	253
24	834	296	697	876	754	811	874	764	806	467	303	428
25	922	662	759	885	769	824	865	804	829	---	---	---
26	765	563	657	911	743	824	941	836	873	---	---	---
27	755	590	685	916	688	806	937	850	889	---	---	---
28	851	718	772	911	786	849	897	164	501	---	---	---
29	989	729	814	989	805	876	345	164	257	---	---	---
30	895	722	800	938	791	856	751	341	520	---	---	---
31	1220	750	902	---	---	---	714	541	614	---	---	---
MONTH	1220	41	513	1140	419	756	1340	127	674	1100	73	695

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	780	665	718	899	844	881
2	---	---	---	---	---	---	844	763	801	917	871	899
3	---	---	---	570	540	550	906	796	877	918	853	896
4	---	---	---	610	520	560	926	108	459	908	869	893
5	---	---	---	660	610	646	233	164	198	894	851	879
6	---	---	---	---	---	---	296	201	253	882	837	864
7	---	---	---	---	---	---	409	296	349	877	833	856
8	---	---	---	---	---	---	514	409	459	873	135	413
9	---	---	---	750	710	739	613	514	568	419	206	305
10	891	781	859	760	690	725	677	491	650	559	419	491
11	847	762	808	820	760	798	491	409	441	629	539	598
12	823	767	791	860	820	849	533	453	497	676	583	626
13	792	744	761	870	110	417	632	533	594	762	676	725
14	---	---	---	400	200	314	709	632	680	793	655	761
15	---	---	---	530	180	431	776	709	748	832	782	814
16	---	---	---	460	290	390	803	776	789	863	814	837
17	924	900	907	600	460	532	834	789	817	883	773	856
18	934	891	911	680	600	646	880	834	858	897	864	879
19	903	703	841	740	680	717	889	834	876	930	861	884
20	797	720	774	770	740	759	889	321	662	890	860	874
21	845	766	800	790	760	783	743	431	680	900	830	875
22	870	810	848	810	780	801	761	715	741	920	840	891
23	1010	857	923	780	780	780	816	752	788	920	770	881
24	---	---	---	---	---	---	862	816	852	910	840	876
25	---	---	---	---	---	---	871	834	859	930	690	866
26	---	---	---	---	---	---	880	844	867	910	710	858
27	---	---	---	---	---	---	890	835	867	870	620	783
28	---	---	---	---	---	---	899	862	878	850	750	815
29	---	---	---	410	270	374	899	844	871	840	120	421
30	---	---	---	500	360	415	890	853	874	430	90	236
31	---	---	---	665	500	582	---	---	---	400	200	294
MONTH	1010	703	838	870	110	610	926	108	686	930	90	743

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	420	100	184	515	337	444	445	227	322	560	290	425
2	419	210	304	604	514	576	463	167	328	690	350	544
3	465	299	364	653	548	598	383	197	277	760	530	667
4	620	465	540	687	397	500	567	383	483	810	650	749
5	714	620	680	550	323	458	674	557	625	850	720	797
6	788	714	765	489	366	417	720	575	673	840	750	809
7	841	581	786	640	489	559	757	407	662	830	790	815
8	845	385	757	751	640	694	542	504	523	850	790	824
9	840	382	756	772	654	734	666	541	620	840	800	823
10	832	370	736	820	766	799	733	540	685	880	840	857
11	812	179	362	832	818	826	724	598	668	880	120	699
12	438	253	342	860	822	833	754	145	518	300	160	233
13	564	438	514	879	250	799	358	87	263	380	200	290
14	609	564	598	638	259	380	533	117	296	810	380	593
15	693	605	671	687	289	621	439	253	342	818	734	775
16	735	692	717	766	109	644	537	293	471	775	634	737
17	720	664	695	487	219	331	567	322	437	771	565	673
18	725	403	642	714	377	615	646	245	520	800	496	706
19	735	605	701	615	288	401	668	383	525	658	477	608
20	792	733	770	643	367	539	787	599	700	730	353	645
21	788	762	775	711	643	674	849	749	801	530	110	347
22	790	766	783	878	711	782	859	158	681	220	140	174
23	775	746	767	936	878	913	386	198	307	290	220	253
24	759	693	744	945	914	933	506	277	447	350	280	322
25	756	721	746	924	883	907	547	388	458	370	280	330
26	774	734	760	892	872	880	568	448	540	390	300	345
27	768	737	758	882	851	874	668	439	576	420	340	382
28	771	478	717	890	829	864	770	439	675	850	410	613
29	526	294	407	867	819	850	810	710	775	860	680	772
30	337	130	272	856	536	815	830	550	714	880	790	831
31	---	---	---	536	337	361	810	110	586	---	---	---
MONTH	845	100	620	945	109	665	859	87	532	880	110	588
YEAR	1340	41	650									

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.0	25.5	25.5	23.5	20.0	21.0	17.0	15.5	16.0	16.5	14.0	15.5
2	28.0	25.5	26.5	23.0	20.5	21.5	18.0	15.5	16.5	14.0	11.5	12.0
3	29.0	26.0	27.0	24.5	23.0	24.0	20.0	17.0	18.5	13.0	11.5	12.0
4	29.0	26.5	27.5	25.5	24.5	25.0	21.0	19.0	20.0	12.5	11.0	11.5
5	29.0	26.5	27.5	26.0	23.0	24.0	22.0	20.0	20.5	11.0	10.5	11.0
6	27.0	26.5	26.5	23.5	20.5	22.0	22.5	20.5	21.5	16.5	11.0	13.0
7	28.0	26.0	27.0	23.5	21.0	22.0	24.5	21.5	23.0	16.0	13.5	14.5
8	28.0	23.0	25.5	25.0	22.5	24.0	25.0	23.5	24.0	17.5	13.0	14.5
9	23.5	20.5	22.0	26.5	24.0	25.0	24.5	19.5	22.5	20.0	16.5	18.0
10	24.0	21.0	22.0	24.0	20.0	21.0	19.5	13.5	16.5	21.5	18.5	19.5
11	23.5	21.0	22.0	21.5	19.0	20.0	14.0	12.5	13.0	22.5	20.5	21.0
12	24.0	21.5	22.0	21.5	18.5	19.5	15.5	13.0	14.0	22.5	17.5	21.5
13	24.0	21.0	22.0	22.5	20.0	20.5	17.0	15.5	16.0	18.0	16.5	17.0
14	22.5	21.0	21.5	23.0	22.0	22.5	18.5	17.0	17.5	17.5	14.0	15.5
15	23.5	21.5	22.0	23.5	22.5	23.0	20.5	17.5	19.0	17.5	13.0	15.0
16	25.5	22.5	24.0	24.0	20.5	21.5	20.5	19.5	20.0	18.5	15.0	16.0
17	25.5	22.5	24.0	21.5	20.5	21.0	19.5	17.5	18.5	19.0	17.0	18.0
18	22.5	21.5	22.0	22.0	21.0	21.5	19.0	16.0	17.5	19.5	16.5	18.5
19	24.0	21.5	22.5	22.5	21.5	22.0	18.5	16.0	17.0	17.0	13.5	15.5
20	28.0	24.0	25.5	22.5	22.0	22.5	19.0	17.0	17.5	17.5	14.0	15.5
21	28.5	25.0	26.0	22.5	20.0	21.0	19.5	18.5	19.0	18.0	14.0	16.0
22	28.0	25.0	26.0	22.0	20.0	20.5	19.5	16.0	17.5	18.0	16.0	16.5
23	28.0	25.5	27.0	21.0	17.0	19.0	17.5	15.0	16.0	16.5	13.0	14.5
24	27.0	25.0	26.0	17.0	16.5	16.5	17.5	15.5	16.0	13.5	11.5	12.0
25	27.0	25.0	25.5	20.0	16.5	18.5	17.0	14.0	15.5	---	---	---
26	25.5	20.5	22.5	22.5	19.5	21.0	17.0	14.0	15.0	---	---	---
27	22.5	19.0	20.5	23.5	21.0	22.5	16.5	14.5	15.0	---	---	---
28	22.0	18.5	20.0	23.5	19.5	21.0	16.5	13.0	14.5	---	---	---
29	22.5	20.5	21.0	20.0	19.5	19.5	14.0	12.5	13.5	---	---	---
30	23.5	21.5	22.5	20.0	16.5	17.5	15.5	14.0	14.5	---	---	---
31	24.0	22.0	23.0	---	---	---	16.0	15.5	15.5	---	---	---
MONTH	29.0	18.5	24.0	26.5	16.5	21.5	25.0	12.5	17.5	22.5	10.5	15.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	18.0	16.5	17.0	22.5	18.5	19.5	28.5	24.5	26.0
2	---	---	---	16.5	14.5	15.0	23.0	19.0	20.5	26.0	22.0	23.5
3	---	---	---	14.5	13.5	14.0	23.0	19.5	20.5	26.0	23.5	24.0
4	---	---	---	16.0	13.5	14.5	22.0	18.5	19.5	27.5	24.5	25.5
5	---	---	---	17.5	16.0	16.5	19.5	18.0	18.5	28.0	25.5	26.5
6	---	---	---	---	---	---	21.5	17.5	19.0	28.0	25.5	26.5
7	---	---	---	---	---	---	24.5	18.0	20.5	28.0	26.0	26.5
8	---	---	---	---	---	---	26.5	20.5	22.5	26.0	19.0	22.5
9	---	---	---	17.5	13.5	14.5	27.0	22.0	23.5	29.5	21.5	24.5
10	20.5	18.0	18.5	19.0	15.0	16.5	27.0	23.0	24.0	30.0	25.0	26.5
11	20.5	18.5	20.0	20.0	16.5	17.5	24.0	19.5	21.5	29.5	25.5	26.5
12	19.0	14.0	15.0	20.5	18.5	19.5	25.5	18.5	20.5	27.5	24.5	25.5
13	14.5	13.0	13.5	21.0	16.5	18.5	26.0	21.0	22.5	29.5	26.5	27.0
14	15.0	13.5	14.0	22.0	17.5	19.0	26.0	22.0	23.5	31.0	27.0	28.5
15	19.5	15.0	17.0	21.5	18.0	19.0	25.5	22.0	23.0	31.0	28.0	29.0
16	19.5	19.0	19.5	20.0	17.0	18.5	26.5	23.0	24.0	31.0	28.0	29.0
17	16.5	15.5	16.0	23.0	17.0	19.5	27.0	24.0	25.0	30.5	27.5	28.5
18	19.0	14.5	16.0	24.0	19.0	21.0	27.0	24.0	25.0	29.0	27.0	28.0
19	20.5	17.0	18.5	24.5	20.5	22.0	26.0	24.0	24.5	28.5	23.5	25.5
20	21.0	16.5	18.5	24.5	20.5	22.5	26.5	22.0	24.5	28.0	24.0	25.5
21	21.0	17.0	19.0	25.0	22.5	23.5	27.0	20.5	22.0	29.0	25.0	26.5
22	20.5	17.0	18.0	27.0	22.0	23.5	27.0	25.0	25.5	29.0	25.5	27.5
23	21.5	18.5	19.5	26.5	25.0	25.0	25.5	20.5	22.5	29.0	26.0	27.5
24	21.5	19.0	20.0	---	---	---	24.0	18.0	20.0	29.5	27.0	28.0
25	19.5	16.5	18.0	---	---	---	24.5	20.5	22.0	29.5	26.5	28.0
26	20.0	17.5	18.5	---	---	---	25.0	21.5	22.5	30.5	28.0	29.0
27	21.5	19.5	20.0	---	---	---	25.5	22.5	24.0	30.5	27.0	29.0
28	19.5	18.0	18.5	---	---	---	26.0	23.0	24.5	31.0	27.5	28.5
29	---	---	---	16.0	15.5	16.0	27.0	23.5	24.5	31.0	23.0	26.0
30	---	---	---	20.5	15.5	17.0	28.5	24.0	25.5	25.5	22.0	23.5
31	---	---	---	20.0	19.0	19.0	---	---	---	30.0	23.0	25.5
MONTH	21.5	13.0	18.0	27.0	13.5	18.5	28.5	17.5	22.5	31.0	19.0	26.5

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	28.5	22.0	24.5	31.0	25.5	27.5	30.5	26.5	28.5	32.5	27.5	29.0
2	31.5	25.0	27.5	31.0	28.0	29.0	29.0	27.5	28.0	33.0	29.0	30.0
3	31.5	26.0	28.5	31.0	28.0	29.0	32.5	26.5	29.0	33.0	29.5	31.0
4	31.0	26.5	28.0	31.0	26.5	29.5	33.5	29.0	31.0	33.0	30.0	31.0
5	31.0	27.5	28.5	30.0	27.5	28.5	33.0	30.0	31.5	33.0	30.0	31.0
6	31.0	27.0	28.5	33.0	26.5	29.0	33.0	30.0	31.0	32.0	29.5	30.0
7	32.0	28.0	29.5	33.0	28.5	30.5	32.5	29.5	30.5	31.5	29.0	29.5
8	32.0	28.5	30.0	33.0	29.5	31.0	32.5	28.0	29.5	30.0	29.0	29.5
9	32.0	28.5	30.0	33.5	30.0	31.5	32.5	29.0	30.0	31.0	29.0	30.0
10	32.0	28.5	30.0	33.5	29.5	31.0	32.0	30.0	30.5	31.5	29.5	30.0
11	32.0	24.0	26.5	33.5	30.0	31.5	32.0	29.5	30.0	31.0	27.5	29.5
12	29.0	23.5	26.0	33.5	30.5	31.5	31.5	29.0	30.0	29.5	27.5	28.0
13	29.5	24.5	26.0	33.5	30.0	31.0	30.5	27.0	29.0	30.0	28.0	29.0
14	29.5	25.5	27.0	31.5	27.5	29.0	30.0	28.0	28.5	31.0	29.0	30.0
15	29.5	26.0	27.0	30.5	28.5	29.0	32.5	27.5	29.5	30.5	29.0	29.5
16	29.5	26.0	27.5	31.0	27.5	29.0	33.0	28.5	30.0	32.0	29.5	30.0
17	29.0	26.5	28.0	32.5	27.5	29.0	33.0	29.0	30.5	33.0	29.5	30.5
18	29.5	26.5	28.0	34.0	29.0	31.0	33.0	29.0	30.5	33.0	29.0	31.0
19	30.5	27.5	28.5	34.0	28.0	30.5	33.0	28.0	29.5	31.5	29.0	30.0
20	31.5	27.0	29.0	33.5	29.0	31.0	33.5	30.0	31.0	31.5	29.5	30.0
21	32.0	27.5	29.5	33.5	29.5	31.0	33.5	30.0	31.5	30.5	26.0	28.5
22	32.0	28.0	29.5	33.5	29.5	31.0	33.5	29.0	30.5	26.0	21.5	23.5
23	32.5	28.5	30.0	33.5	29.5	31.0	32.5	28.5	30.0	25.0	20.0	21.0
24	32.5	29.5	30.5	33.0	30.0	31.0	33.0	28.5	30.0	25.0	22.0	23.5
25	32.0	29.5	30.5	33.5	30.0	31.0	33.0	29.0	30.5	26.5	22.5	24.5
26	32.0	28.5	30.0	33.5	30.0	31.0	32.5	29.5	30.5	27.0	23.5	25.5
27	32.0	28.5	30.0	33.5	30.5	31.5	32.5	30.0	31.0	28.0	25.5	27.0
28	31.5	28.0	29.5	34.0	30.5	32.0	31.0	29.5	30.0	28.5	26.5	27.5
29	29.0	25.0	26.5	34.0	29.5	30.5	32.5	30.0	31.0	28.0	27.0	27.5
30	27.5	24.5	25.5	30.0	27.5	28.5	32.0	29.5	30.5	28.5	27.0	28.0
31	---	---	---	31.0	26.5	28.0	31.5	27.0	29.0	---	---	---
MONTH	32.5	22.0	28.5	34.0	25.5	30.0	33.5	26.5	30.0	33.0	20.0	28.5
YEAR	34.0	10.5	24.0									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	>20.0	7.7	>11.9	12.4	6.2	8.2	---	---	---	9.5	7.3	8.3
2	19.8	3.1	9.9	15.3	7.5	10.4	8.1	6.3	6.7	11.2	8.4	9.5
3	11.7	2.7	5.8	11.2	5.9	7.9	8.5	5.4	6.5	11.0	8.4	9.5
4	12.2	2.3	7.2	10.3	4.9	7.0	---	---	---	10.1	8.5	9.3
5	18.6	2.5	9.1	8.4	5.2	7.7	---	---	---	10.8	8.3	9.4
6	18.7	2.9	12.1	9.9	6.7	7.9	---	---	---	11.6	7.8	9.5
7	13.6	1.0	8.3	9.3	6.2	7.8	---	---	---	11.7	7.2	9.0
8	14.0	.5	7.1	8.8	5.7	7.2	---	---	---	11.9	7.4	8.9
9	16.5	12.1	13.9	8.9	4.8	6.2	---	---	---	11.4	6.5	8.6
10	14.2	8.3	10.6	9.5	5.8	7.0	---	---	---	12.5	6.2	8.1
11	8.4	2.7	5.0	18.6	6.9	12.7	---	---	---	12.5	5.2	7.3
12	8.1	2.7	5.1	13.3	---	13.3	---	---	---	11.9	5.2	7.5
13	7.4	2.0	4.2	13.3	6.1	8.9	9.0	7.0	7.6	8.9	7.6	8.1
14	7.3	1.5	4.0	17.8	5.0	9.6	9.5	6.6	7.5	9.2	7.9	8.5
15	7.5	1.9	5.3	16.7	5.6	9.1	8.3	7.2	7.7	10.1	7.9	8.7
16	6.7	5.7	6.2	17.4	5.7	9.5	8.4	6.2	7.4	9.7	7.4	8.4
17	8.3	5.7	6.4	---	---	---	9.4	7.5	8.4	9.3	6.1	7.5
18	---	---	---	---	---	---	10.3	8.3	9.1	8.2	6.2	7.6
19	---	---	---	---	---	---	11.9	8.5	9.5	9.5	7.4	8.6
20	---	---	---	---	---	---	11.0	7.6	9.4	10.8	8.0	8.9
21	---	---	---	---	---	---	11.5	8.3	9.6	11.2	7.7	9.1
22	---	---	---	---	---	---	12.8	8.9	10.4	10.0	7.0	8.0
23	---	---	---	---	---	---	13.5	9.3	11.0	9.5	8.4	9.0
24	---	---	---	---	---	---	14.4	9.7	11.5	9.1	8.8	9.1
25	8.3	5.6	6.4	---	---	---	14.9	10.3	12.0	---	---	---
26	8.8	5.7	7.2	---	---	---	15.0	10.4	12.0	---	---	---
27	9.2	5.9	7.4	---	---	---	15.4	10.1	12.0	---	---	---
28	9.8	6.5	7.9	---	---	---	15.1	10.6	12.7	---	---	---
29	11.2	6.3	8.3	---	---	---	13.0	12.0	12.3	---	---	---
30	12.0	6.2	8.8	---	---	---	12.1	8.9	10.7	---	---	---
31	12.5	6.3	9.1	---	---	---	9.0	7.9	8.3	---	---	---
MONTH	>20.0	.5	>7.8	18.6	4.8	8.8	15.4	5.4	9.6	12.5	5.2	8.6

08074598 WHITEOAK BAYOU AT MAIN STREET, HOUSTON, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	5.3	3.7	4.6	12.1	5.8	8.1	15.3	.9	6.5
2	---	---	---	5.7	5.2	5.6	12.8	5.6	8.1	18.0	2.9	7.2
3	---	---	---	---	---	---	13.1	5.1	7.8	18.0	4.1	7.6
4	---	---	---	10.2	8.2	8.9	11.6	5.2	7.9	15.8	3.7	8.4
5	---	---	---	8.9	7.8	7.9	8.4	7.1	7.5	15.5	3.2	7.7
6	---	---	---	---	---	---	7.7	6.9	7.4	15.5	3.4	7.9
7	---	---	---	---	---	---	7.3	5.4	6.7	14.1	3.2	6.7
8	---	---	---	---	---	---	5.4	4.2	4.8	8.9	3.3	6.5
9	---	---	---	11.1	9.1	9.7	9.4	2.6	5.0	5.3	2.8	4.9
10	---	---	---	11.0	8.3	9.2	15.5	6.4	8.4	5.6	1.4	3.2
11	---	---	---	9.7	5.4	7.2	>20.0	11.5	>17.0	6.0	.7	3.0
12	---	---	---	---	---	---	>20.0	17.7	>19.0	8.0	.4	2.9
13	6.2	2.0	3.8	---	---	---	>20.0	16.3	>18.4	8.0	1.4	4.1
14	10.2	6.1	8.0	9.3	5.6	6.8	>20.0	4.2	>16.8	8.1	.8	4.0
15	10.0	5.7	7.3	10.4	8.1	8.9	>20.0	4.1	>15.2	14.0	1.1	4.9
16	9.4	5.1	5.8	9.8	8.2	8.9	>20.0	11.8	>15.5	>20.0	4.5	>10.2
17	12.7	6.5	8.8	11.8	7.9	9.5	>20.0	15.2	>18.3	>20.0	8.8	>13.5
18	16.4	7.1	10.9	12.6	6.2	8.8	13.2	5.9	7.4	>20.0	14.9	>15.9
19	15.4	5.0	9.6	13.1	5.2	8.8	13.2	3.7	6.4	>20.0	8.1	>10.3
20	16.7	5.9	9.4	13.7	5.2	8.8	13.1	2.3	6.2	>20.0	5.4	>10.7
21	15.2	6.9	9.8	15.1	4.9	8.9	11.7	4.4	6.1	>20.0	7.1	>13.9
22	17.0	5.9	9.8	16.4	4.6	8.6	11.3	.9	4.0	>20.0	16.2	>19.7
23	16.8	5.8	9.2	13.7	---	10.5	11.3	2.5	5.8	>20.0	4.7	>13.1
24	15.8	5.0	7.6	---	---	---	12.2	3.1	5.4	>20.0	4.1	>9.0
25	9.3	6.3	7.3	---	---	---	12.4	3.0	6.0	>20.0	3.1	>9.3
26	9.2	5.6	6.9	---	---	---	12.8	2.4	5.6	>20.0	3.4	>8.4
27	9.3	5.8	7.3	---	---	---	13.3	1.7	5.8	14.4	3.9	4.5
28	9.5	2.9	5.0	9.2	6.4	7.1	14.4	1.2	5.9	---	---	---
29	---	---	---	9.3	6.1	7.9	14.4	1.9	6.1	---	---	---
30	---	---	---	9.1	7.0	8.2	15.3	1.3	6.1	---	---	---
31	---	---	---	9.7	4.9	7.2	---	---	---	---	---	---
MONTH	17.0	2.0	7.9	16.4	3.7	8.2	>20.0	.9	>9.0	>20.0	.4	>8.3

> Actual value is known to be greater than the value shown

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	7.3	9.7	4.2	6.4	9.2	3.2	6.6	6.1	1.0	2.8
2	8.4	6.9	6.4	10.2	1.7	5.5	>20.0	3.0	>9.3	7.0	.4	2.5
3	7.9	5.5	6.4	10.9	1.6	4.8	13.3	5.3	9.1	7.3	.6	2.8
4	7.9	4.1	5.7	10.6	3.9	6.6	>20.0	4.9	>13.7	8.0	.6	3.1
5	8.2	2.7	4.8	7.9	1.5	3.9	>20.0	6.8	>14.4	8.0	1.5	3.1
6	11.1	3.7	6.3	8.6	3.9	5.6	---	---	---	7.2	.7	2.9
7	12.7	2.9	6.9	10.5	.8	4.1	---	---	---	7.7	.9	3.1
8	13.0	3.1	7.0	14.4	.8	5.0	---	---	---	6.1	.9	3.1
9	12.5	3.2	6.8	16.6	1.4	6.8	12.1	3.0	5.0	6.4	1.2	3.1
10	12.0	2.0	6.0	18.6	2.1	7.8	12.7	3.1	6.5	7.4	1.9	3.7
11	11.3	5.4	6.4	>20.0	1.1	>8.0	12.7	1.8	4.1	8.8	1.9	4.3
12	9.2	5.0	6.7	>20.0	.8	>6.9	9.3	2.0	5.4	2.4	1.1	1.2
13	10.9	3.3	5.6	>20.0	1.5	>5.9	6.2	1.0	3.3	---	---	---
14	12.1	3.2	6.3	8.9	1.2	3.0	5.0	1.6	2.8	10.7	3.3	5.3
15	12.2	2.3	5.9	6.4	1.0	2.7	7.0	2.9	4.7	8.3	1.6	4.4
16	14.1	2.2	6.8	8.2	.3	3.2	7.3	1.6	3.8	14.6	.6	4.2
17	12.2	.7	4.6	6.1	.2	1.8	6.1	1.4	3.2	>20.0	8.4	>13.8
18	11.4	.6	4.7	7.9	.2	2.4	7.7	1.7	3.3	---	---	---
19	14.2	.6	5.1	6.6	.8	2.9	6.8	1.0	2.8	---	---	---
20	>20.0	1.3	>8.3	7.6	.1	2.2	7.7	.7	3.2	---	---	---
21	>20.0	2.1	>9.1	10.1	.2	3.8	8.9	1.2	4.7	7.1	3.6	4.4
22	>20.0	1.0	>8.6	10.4	.8	4.6	8.9	.8	3.0	7.0	5.4	6.0
23	>20.0	1.1	>7.8	11.6	1.0	5.2	3.7	.5	2.2	8.2	4.4	5.7
24	>20.0	3.3	>11.3	12.5	.4	5.5	3.4	.3	.9	8.2	1.9	4.1
25	---	---	---	13.8	1.0	5.3	2.6	.3	1.0	6.1	2.1	3.2
26	---	---	---	13.1	1.1	5.6	1.8	.3	.5	---	---	---
27	---	---	---	14.5	.7	5.7	3.6	.8	1.7	---	---	---
28	---	---	---	>20.0	.5	7.2	6.8	2.5	3.9	8.1	4.0	5.5
29	---	---	---	>20.0	2.8	7.4	8.8	2.3	4.6	6.9	2.5	4.5
30	7.8	6.6	7.2	14.6	4.1	7.7	8.8	.3	2.5	7.3	3.4	5.2
31	---	---	---	8.7	5.1	6.6	6.9	.8	3.3	---	---	---
MONTH	>20.0	.6	>6.7	>20.0	.1	>5.2	>20.0	.3	>4.6	>20.0	.4	>4.2
YEAR	>20.0	.1	>7.3									

> Actual value is known to be greater than the value shown

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX

LOCATION.--Lat 29°45'57", long 95°52'07", Harris County, Hydrologic Unit 12040104, on left bank at McKee street bridge over Buffalo Bayou 0.8 mi downstream from station 08074598, 5.5 mi upstream from station 08074710.

DRAINAGE AREA.--Not determined.

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--February 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, 1978 adjustment, unadjusted for land-surface subsidence.

REMARKS.--Records good. Mostly tidal, affected by local runoff. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 17.73 ft Oct. 17, 1994 at 2300 hours; minimum, -1.89 ft Mar. 13, 1993 at 0400 hours.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 17.73 ft Oct. 17 at 2300 hours; minimum, -1.32 ft Mar. 8 at 1000 hours.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.8	1.6	3.0	1.2	2.9	1.0	2.8	.0	1.9	.4	1.7	.3
2	3.5	2.2	3.4	1.8	4.2	.7	2.0	-.1	1.9	.6	2.3	1.0
3	3.2	1.8	3.3	1.5	4.9	1.6	2.4	.6	1.9	.2	2.1	.9
4	3.1	1.8	3.7	1.7	3.0	.5	2.0	.0	.5	-1.0	2.3	1.1
5	3.2	1.5	4.1	1.3	2.5	.6	2.8	1.4	1.0	-.4	2.3	1.2
6	3.6	1.9	2.9	.6	2.7	1.2	3.1	1.3	1.9	-.3	2.8	1.0
7	3.9	2.2	2.8	1.4	2.7	.8	2.0	.4	2.0	.2	2.4	-.3
8	4.1	1.5	3.1	1.4	2.3	1.0	1.8	.4	1.5	-.2	.8	-1.3
9	2.2	-.2	3.0	1.0	2.4	.6	1.9	.4	2.1	.0	2.2	.4
10	1.9	.4	2.0	.8	1.5	-.8	2.0	.4	2.0	.1	2.7	1.0
11	2.2	.8	2.3	1.3	1.8	-.5	2.2	.4	1.5	-.2	2.9	1.1
12	2.3	.8	3.0	1.8	2.5	1.0	6.2	.5	2.0	-.5	3.2	1.5
13	2.3	.8	3.3	2.2	2.5	.4	6.8	1.4	2.4	.7	8.9	2.5
14	2.5	.9	3.0	1.7	2.9	1.0	1.4	-1.1	2.5	.9	3.5	1.4
15	8.6	1.7	2.6	1.3	2.9	1.1	1.4	-.8	2.6	1.1	2.8	1.3
16	4.5	3.1	2.2	.5	5.0	2.2	2.4	.6	2.1	.3	2.3	.9
17	17.7	3.7	2.8	1.2	2.4	.3	2.9	1.3	1.5	-.3	2.4	1.3
18	17.4	11.4	2.7	1.1	2.3	.3	7.4	.6	1.7	.1	2.6	1.4
19	11.4	7.5	2.9	1.5	2.8	1.1	.6	-1.2	1.7	.3	2.3	1.0
20	7.5	5.0	3.0	1.6	3.1	1.6	1.7	.2	1.5	-.2	2.8	1.1
21	5.2	3.0	2.9	.6	3.1	1.0	1.7	.3	1.4	-.3	2.4	.5
22	3.8	2.2	2.7	1.1	2.6	.1	2.6	.8	1.8	-.1	2.7	.5
23	3.7	2.0	2.7	.5	2.0	.7	2.1	-.4	1.9	.1	2.6	.5
24	3.4	2.0	2.8	1.4	2.1	.7	2.1	.0	1.5	-.2	2.8	.7
25	3.3	1.3	3.0	1.3	1.8	.7	2.3	.6	2.2	.4	3.4	1.6
26	2.4	1.1	2.6	1.6	1.8	.3	10.9	.9	2.4	1.0	3.4	1.7
27	2.9	1.6	3.2	1.6	2.3	.5	10.4	2.7	2.9	.6	2.6	1.1
28	3.0	1.8	2.6	1.1	4.1	1.5	2.7	.5	5.7	1.4	3.2	1.6
29	3.4	2.0	2.8	1.4	3.6	.4	1.6	.0	---	---	3.8	2.0
30	3.6	2.2	2.5	.5	2.3	.1	1.4	-.1	---	---	3.1	1.8
31	3.1	1.8	---	---	2.9	.9	1.9	.4	---	---	3.3	1.7
MONTH	17.7	-.2	4.1	.5	5.0	-.8	10.9	-1.2	5.7	-1.0	8.9	-1.3

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	3.1	1.4	2.7	1.1	4.3	1.5	2.1	.5	4.1	2.5	2.9	1.0
2	2.9	1.6	2.5	.1	2.9	1.1	2.2	.3	4.4	2.7	2.7	1.0
3	3.4	1.5	3.6	1.3	3.1	1.3	2.3	.6	3.2	1.4	2.8	1.0
4	9.6	1.6	3.1	1.5	3.0	1.3	3.6	1.8	2.6	.7	2.9	1.1
5	5.9	3.6	2.8	.7	2.9	1.3	3.6	1.5	2.6	1.0	3.6	1.1
6	3.9	2.1	3.3	1.4	2.8	1.5	2.7	.9	3.4	1.3	3.8	1.5
7	3.3	1.6	3.5	1.9	3.1	1.7	2.2	.3	3.5	1.4	3.4	1.7
8	3.4	1.7	5.9	2.8	2.9	1.7	2.0	.2	3.1	1.6	3.2	1.7
9	3.5	1.9	3.0	1.5	3.3	1.7	2.2	.3	3.4	1.5	2.9	1.6
10	4.7	2.4	2.5	1.2	3.2	1.3	2.0	.3	3.3	1.5	3.0	1.6
11	4.4	1.0	2.4	1.2	3.6	.2	1.8	-.1	3.6	1.6	3.0	1.7
12	2.8	1.0	3.0	1.2	1.5	-.5	1.8	-.4	3.4	1.8	2.9	1.7
13	2.4	1.2	3.6	1.6	2.4	-.2	2.3	.0	3.4	1.7	3.0	1.3
14	3.0	1.3	3.6	1.8	2.4	.4	3.2	.5	3.3	2.0	2.7	1.5
15	3.3	1.7	3.1	.9	2.6	.5	2.7	1.0	3.0	1.8	2.9	1.7
16	3.2	1.5	3.3	1.0	2.9	1.0	2.6	.9	2.9	1.6	3.1	1.5
17	3.7	1.4	4.0	1.7	3.4	1.4	2.2	.9	2.8	1.3	2.9	1.0
18	3.6	1.2	3.2	1.2	4.2	2.3	1.9	.6	2.6	1.0	2.8	1.3
19	3.7	1.4	2.0	.1	2.8	1.3	1.8	.5	2.7	.9	3.2	1.5
20	4.1	1.8	2.4	.4	2.0	.7	2.2	.4	2.6	.8	2.9	1.5
21	3.3	1.2	2.9	1.4	1.7	.5	2.0	.4	2.8	.7	3.0	1.4
22	3.2	1.3	2.9	1.6	1.7	.2	2.0	.3	2.9	.8	2.1	.9
23	2.2	.0	3.0	1.8	1.9	.2	2.0	.3	3.1	1.2	2.9	1.3
24	1.9	-.2	3.0	1.5	2.2	.4	2.4	.5	3.0	1.4	3.3	1.7
25	2.7	1.3	2.8	1.2	2.1	.4	2.3	.4	2.9	1.2	3.5	2.2
26	3.3	1.7	2.9	1.1	2.2	.0	2.2	.4	3.0	1.4	3.5	1.8
27	2.8	1.4	3.5	1.5	2.3	.5	2.0	.4	2.9	1.3	3.4	1.7
28	2.6	.9	3.2	1.4	2.7	.5	2.0	.4	2.6	1.4	3.1	1.5
29	3.3	1.5	4.9	1.0	3.6	.3	2.4	.6	2.4	1.2	3.4	2.1
30	2.8	1.1	7.4	1.2	3.4	1.0	3.8	1.7	2.8	1.8	4.0	2.4
31	---	---	2.9	1.0	---	---	4.4	3.0	3.2	2.1	---	---
MONTH	9.6	-.2	7.4	.1	4.3	-.5	4.4	-.4	4.4	.7	4.0	.9
YEAR	17.7	-1.3										

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1992 to current year.
WATER TEMPERATURE: February 1992 to current year.
DISSOLVED OXYGEN: February 1992 to current year.

INSTURMENTATION.-- Since February 1992 a three-parameter water-quality monitor continuously records specific conductance, water temperature, and dissolved oxygen at this station.

REMARKS.-- Interruption in the record was due to malfuctions of the instrumentation. Due to tidal effects, probe location, 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, 2000 microsiemens Oct. 11, 1992 and Sept. 7, 1993; minimum, 52 microsiemens Sept. 3, 1994.
WATER TEMPERATURE: Maximum 33.0°C Jun. 23, 1995; minimum, 6.0°C on Feb. 10, 11, 1994.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L May 2, 1995; minimum, 0.1 mg/L Sept. 21, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1490 microsiemens Oct. 7; minimum, 75 microsiemens Oct. 17.
WATER TEMPERATURE: Maximum, 33.0°C Jun. 23; minimum, 10.0°C Jan. 6.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L May 2; minimum, 0.1 mg/L Sept. 21.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	930	819	876	---	---	---	838	734	786	357	261	320
2	996	833	898	---	---	---	752	592	736	419	335	386
3	1110	857	962	---	---	---	592	170	216	509	372	417
4	1090	935	1010	---	---	---	357	220	305	473	427	445
5	1130	831	979	---	---	---	429	334	388	548	465	513
6	1200	983	1090	---	---	---	457	238	325	591	530	561
7	1490	465	913	---	---	---	356	238	298	624	569	602
8	480	198	306	---	---	---	465	352	416	692	624	654
9	278	204	245	---	---	---	588	464	534	730	666	683
10	485	268	332	278	221	270	628	541	574	751	696	718
11	345	264	290	221	149	165	552	530	538	766	720	739
12	379	281	326	175	143	158	630	539	572	761	162	722
13	421	338	363	181	152	167	620	581	602	212	156	180
14	491	421	452	202	165	183	649	428	617	209	196	202
15	566	87	354	244	197	211	506	393	445	213	192	204
16	242	125	182	242	190	221	442	118	267	228	193	211
17	225	75	171	240	200	219	260	177	229	258	208	232
18	102	81	92	248	204	231	233	196	221	348	138	224
19	141	100	119	270	222	250	239	193	219	260	182	243
20	235	141	193	279	226	256	229	186	209	264	244	253
21	238	201	219	414	239	342	236	188	223	418	262	344
22	331	210	248	326	259	278	420	209	329	490	199	400
23	332	141	217	310	273	292	523	418	460	282	208	246
24	154	134	145	719	299	407	561	481	529	230	197	211
25	216	135	173	781	447	549	704	548	593	227	190	208
26	355	185	298	760	561	623	677	608	624	387	138	245
27	---	---	---	821	625	700	707	630	669	218	144	174
28	---	---	---	907	727	770	701	151	456	258	218	248
29	---	---	---	825	760	786	272	166	212	248	189	209
30	---	---	---	882	770	810	250	203	214	199	173	187
31	---	---	---	---	---	---	285	213	253	197	172	185
MONTH	1490	75	440	907	143	376	838	118	421	766	138	360

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	202	174	190	311	184	261	508	417	459	863	846	853
2	210	178	194	311	191	228	619	508	576	868	817	849
3	229	198	214	273	206	246	702	608	646	870	835	859
4	287	226	250	258	200	216	710	120	383	893	855	874
5	448	275	351	233	192	211	162	122	140	879	839	852
6	574	444	507	232	192	216	263	144	194	865	840	850
7	765	538	652	315	210	249	373	263	313	858	845	851
8	727	665	696	279	222	240	357	261	308	858	155	429
9	734	698	711	253	202	231	261	151	181	341	180	270
10	765	717	734	360	225	293	403	179	206	456	314	364
11	789	760	770	472	357	418	403	206	229	531	424	455
12	795	779	784	583	472	544	229	141	173	592	482	513
13	797	776	784	637	131	316	172	144	159	658	592	615
14	826	781	800	320	166	237	185	142	163	665	455	575
15	835	797	815	407	223	339	193	148	173	487	441	471
16	864	809	828	388	261	327	219	175	200	507	463	491
17	845	787	810	458	169	261	294	211	245	525	475	503
18	844	785	802	196	156	178	452	286	378	533	474	504
19	817	763	805	195	162	182	588	452	485	535	442	499
20	792	718	768	236	179	205	617	346	522	523	449	493
21	835	763	791	495	236	335	522	340	464	526	475	509
22	816	781	794	621	487	520	718	504	581	547	499	519
23	813	782	797	705	575	601	674	635	647	567	536	543
24	828	399	652	706	658	681	743	636	687	606	558	574
25	624	403	590	819	706	785	771	730	761	665	606	634
26	667	581	608	820	479	715	799	769	784	690	665	676
27	732	251	641	626	437	529	807	792	798	756	681	716
28	268	146	177	576	434	482	820	799	810	734	696	717
29	---	---	---	576	282	455	844	814	830	731	115	382
30	---	---	---	367	255	289	856	831	845	356	99	182
31	---	---	---	417	367	393	---	---	---	285	148	221
MONTH	864	146	626	820	131	361	856	120	445	893	99	576
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	291	120	172	362	262	291	446	194	293	312	133	248
2	316	185	242	445	362	407	346	137	249	450	311	365
3	376	307	328	461	419	431	323	181	255	610	428	503
4	539	364	450	558	362	461	396	299	356	648	547	592
5	364	315	340	521	229	449	479	396	430	814	586	643
6	381	316	345	374	253	315	555	479	505	889	668	710
7	399	337	364	464	338	402	649	501	565	817	720	743
8	394	342	373	433	402	420	565	339	501	838	657	720
9	399	339	372	451	358	394	538	320	410	886	709	803
10	481	356	385	512	431	454	540	407	505	1080	818	931
11	489	187	269	570	445	504	544	478	506	1360	130	836
12	302	190	254	478	401	448	512	166	403	638	206	461
13	305	230	266	642	406	484	317	179	257	607	196	406
14	254	196	221	540	320	406	421	182	316	698	521	611
15	228	204	218	518	327	375	384	168	268	724	604	682
16	247	217	232	424	113	268	481	374	423	691	598	627
17	243	214	230	454	222	361	467	291	376	742	652	708
18	260	218	239	640	311	440	607	338	483	716	645	683
19	311	235	260	622	314	457	467	266	366	654	567	614
20	414	307	342	641	458	533	541	394	460	674	594	658
21	529	410	438	675	640	651	584	514	535	616	136	419
22	584	514	537	703	675	689	622	177	552	393	206	290
23	671	584	607	716	675	686	407	220	296	277	248	260
24	760	671	703	755	716	731	440	250	325	331	271	307
25	786	746	771	787	752	775	463	411	445	375	309	348
26	807	771	788	807	772	787	450	368	412	510	373	446
27	816	790	807	844	780	807	461	332	395	582	455	523
28	835	757	820	868	803	830	497	331	411	681	547	619
29	757	256	496	1330	862	1020	573	481	535	690	631	657
30	286	166	203	1100	746	895	630	409	529	731	656	681
31	---	---	---	757	388	479	463	124	363	---	---	---
MONTH	835	120	402	1330	113	537	649	124	410	1360	130	570
YEAR	1490	75	462									

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	24.5	25.0	21.5	21.0	21.0	18.5	17.0	18.0	14.5	14.0	14.5
2	26.5	24.5	25.5	21.5	20.5	21.0	17.5	16.5	16.5	14.0	12.0	13.0
3	27.5	25.0	26.0	22.0	21.5	21.5	19.0	17.5	18.0	12.5	11.5	11.5
4	27.5	26.0	26.5	22.5	22.0	22.0	19.0	18.5	18.5	11.5	10.5	11.5
5	27.5	26.0	26.5	23.5	22.0	23.0	20.0	19.0	19.5	11.0	10.5	10.5
6	27.0	26.0	26.5	22.5	21.0	21.5	20.5	19.5	20.0	12.0	10.0	11.0
7	26.5	25.5	26.0	21.5	21.0	21.5	22.0	20.0	21.0	13.5	12.0	12.5
8	26.5	23.5	25.0	22.0	21.5	22.0	23.0	22.0	22.5	14.5	12.5	13.5
9	23.5	21.5	22.5	23.0	22.0	22.5	23.0	21.5	22.5	16.5	13.0	15.0
10	22.0	21.0	21.5	22.5	20.5	21.5	21.5	16.5	19.0	18.0	16.0	17.0
11	21.0	20.0	20.5	20.5	20.0	20.5	16.5	14.5	15.5	20.0	18.0	19.0
12	20.5	19.5	20.0	20.0	19.5	20.0	14.5	14.0	14.5	21.0	18.0	20.0
13	20.0	19.5	20.0	20.0	19.5	20.0	15.0	14.0	14.5	18.0	17.0	17.5
14	21.0	19.5	20.0	20.0	19.5	20.0	18.0	15.0	16.0	17.0	15.5	16.0
15	21.5	20.0	20.5	20.5	20.0	20.5	19.0	17.0	18.0	15.5	14.5	15.0
16	24.5	21.5	23.0	20.5	20.0	20.0	21.0	19.0	20.0	15.0	14.0	14.5
17	24.5	22.0	23.5	20.0	19.5	19.5	20.0	18.5	19.5	15.5	14.5	15.0
18	22.5	21.5	22.0	20.0	19.5	20.0	18.5	17.0	17.5	19.5	15.5	18.0
19	22.0	21.5	22.0	20.5	20.0	20.0	17.0	16.0	16.0	18.5	15.5	16.5
20	24.5	22.0	23.0	20.5	20.0	20.5	16.0	15.5	16.0	15.5	14.0	14.5
21	24.5	23.5	24.0	20.0	20.0	20.0	17.0	16.0	16.5	14.5	13.5	14.0
22	25.0	24.0	24.0	20.0	19.0	19.5	16.5	15.5	16.0	17.5	14.5	16.0
23	25.0	23.5	24.0	19.0	18.0	18.5	16.0	15.0	15.5	16.5	14.0	15.5
24	23.5	23.5	23.5	18.0	17.0	17.5	16.0	15.0	15.5	14.0	12.0	12.5
25	23.5	23.5	23.5	18.0	17.0	17.5	15.0	14.0	14.5	12.5	12.0	12.0
26	23.5	22.5	23.0	20.5	18.0	19.0	14.5	14.0	14.5	18.0	12.5	15.5
27	23.0	22.0	22.5	22.0	20.0	21.0	15.0	14.0	14.5	18.5	17.5	18.0
28	22.0	21.5	21.5	21.5	21.0	21.5	14.5	13.5	14.0	19.0	18.0	18.5
29	21.5	21.5	21.5	21.0	19.5	20.5	14.0	13.5	13.5	18.0	16.0	17.0
30	21.5	21.5	21.5	19.5	18.5	19.0	13.5	13.0	13.0	16.0	15.0	15.5
31	22.0	21.5	21.5	---	---	---	14.0	13.5	14.0	15.0	14.5	14.5
MONTH	27.5	19.5	23.0	23.5	17.0	20.5	23.0	13.0	17.0	21.0	10.0	15.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	14.0	14.5	18.0	17.5	17.5	19.0	17.5	18.0	26.5	25.0	25.5
2	15.0	14.0	14.5	17.5	15.5	16.0	20.0	18.5	19.5	26.5	25.0	25.5
3	16.0	14.5	15.5	15.5	14.0	14.5	20.5	19.5	20.0	25.5	24.0	24.5
4	16.0	15.5	16.0	14.0	13.5	14.0	20.5	18.5	19.5	26.0	24.0	25.0
5	16.0	14.5	15.0	14.5	14.0	14.5	18.5	18.0	18.5	27.0	25.0	26.0
6	17.0	15.5	16.0	17.0	14.5	15.5	20.0	17.5	18.5	28.0	26.0	26.5
7	16.5	15.5	16.0	18.5	16.0	17.0	21.0	18.5	19.5	27.0	26.5	26.5
8	16.5	14.5	15.0	15.0	14.0	15.0	22.0	20.0	21.0	26.5	19.5	22.5
9	15.0	14.5	15.0	14.0	13.0	13.5	21.5	20.0	20.5	25.0	20.5	22.0
10	17.0	15.0	16.0	15.0	13.0	13.5	22.0	21.0	21.0	27.5	25.0	25.5
11	19.0	17.0	18.0	16.5	15.0	15.5	22.0	20.0	21.0	26.5	25.0	26.0
12	18.0	16.0	17.0	18.5	16.0	17.5	21.0	19.5	20.0	26.5	25.0	25.5
13	16.0	14.0	14.5	19.0	17.5	18.0	21.0	20.0	20.5	26.5	25.5	26.0
14	14.0	13.5	14.0	21.0	18.0	19.0	21.5	20.5	21.0	27.5	26.5	27.0
15	16.5	14.0	15.0	20.5	19.5	20.0	21.5	21.0	21.0	28.5	27.5	28.0
16	18.0	16.0	17.5	20.0	18.5	19.0	22.5	21.5	22.0	29.5	28.0	28.5
17	18.0	16.0	17.0	20.5	19.5	20.0	24.0	22.0	23.0	29.0	28.0	28.5
18	17.0	16.0	16.0	21.0	20.0	20.5	24.0	23.5	24.0	28.0	27.0	27.5
19	18.0	16.0	17.0	22.0	21.0	21.5	24.5	24.0	24.5	27.5	25.5	26.0
20	19.5	17.0	18.0	23.5	21.5	22.5	25.0	22.5	24.0	27.0	25.5	26.0
21	20.0	17.5	18.5	25.0	23.0	24.0	23.0	21.0	22.0	27.5	25.5	26.0
22	19.5	18.0	18.5	25.0	22.5	24.0	25.0	23.0	24.5	28.5	26.0	26.5
23	20.0	18.0	18.5	24.5	23.5	24.0	24.5	22.0	23.5	28.0	26.5	27.0
24	20.0	19.0	19.5	24.5	24.0	24.0	23.5	21.0	22.0	28.5	27.0	27.5
25	20.0	18.0	19.0	25.0	23.5	24.0	23.5	21.0	22.0	29.0	27.0	27.5
26	19.0	18.0	18.5	24.0	23.5	24.0	23.5	21.5	22.5	29.0	27.0	28.0
27	20.0	18.5	19.0	24.0	23.0	23.5	24.0	22.0	23.0	28.5	27.5	28.0
28	20.0	18.0	18.5	23.5	20.5	22.0	24.5	23.0	23.5	29.5	28.5	28.5
29	---	---	---	20.5	16.0	18.5	25.0	23.5	24.0	28.5	23.5	25.5
30	---	---	---	17.5	15.5	16.0	26.0	24.0	25.0	25.0	22.0	23.5
31	---	---	---	17.5	17.5	17.5	---	---	---	27.0	23.0	24.0
MONTH	20.0	13.5	16.5	25.0	13.0	19.0	26.0	17.5	21.5	29.5	19.5	26.0

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	22.5	23.5	27.5	25.5	26.0	28.5	25.5	27.0	28.5	26.5	27.5
2	28.0	24.0	25.0	28.5	27.0	27.5	27.0	26.0	26.5	31.0	28.0	29.0
3	29.5	27.0	28.0	30.5	28.0	29.0	28.5	26.0	26.5	31.0	28.5	29.5
4	29.5	27.5	28.5	29.5	27.5	28.5	28.5	27.0	28.0	31.5	29.0	30.0
5	28.0	27.0	27.5	30.5	28.0	29.0	29.0	28.0	28.5	30.5	29.5	30.0
6	28.0	27.0	27.5	29.0	27.0	28.0	30.0	28.0	29.0	30.0	29.5	29.5
7	29.0	27.5	28.0	29.0	26.5	27.0	29.5	28.5	29.0	30.0	29.0	29.0
8	29.0	28.0	28.5	29.5	26.5	27.5	29.0	27.5	28.0	30.0	28.5	29.0
9	29.0	28.0	28.5	27.5	26.0	26.5	29.5	28.0	29.0	30.0	28.0	29.0
10	29.5	28.5	29.0	---	---	---	29.5	28.0	28.5	30.0	28.5	29.0
11	29.0	24.5	26.0	---	---	---	29.5	28.5	28.5	29.5	27.0	28.5
12	26.5	24.5	25.0	29.5	29.0	29.5	29.0	27.5	28.0	29.5	27.0	28.0
13	27.0	25.0	26.0	31.5	29.5	30.0	27.5	26.5	27.5	29.0	27.0	28.0
14	27.0	25.5	26.5	29.5	28.0	28.5	27.5	26.0	27.0	31.0	28.0	28.5
15	27.0	26.0	26.5	28.5	27.5	27.5	28.0	26.0	27.0	30.0	28.5	29.0
16	26.5	26.0	26.0	29.0	26.0	27.0	29.5	28.0	28.0	30.5	28.5	29.0
17	27.0	26.0	26.5	29.5	27.0	27.5	30.0	28.0	28.5	31.0	29.0	29.5
18	27.0	26.0	26.5	30.5	27.5	28.5	30.0	27.5	28.5	30.5	29.0	29.5
19	28.0	26.5	27.0	31.0	27.5	29.0	28.0	27.0	27.5	30.0	29.0	29.5
20	28.5	26.5	27.0	31.0	29.0	30.0	29.0	27.5	28.5	30.0	29.0	29.0
21	32.0	27.5	29.0	31.5	29.0	30.0	31.0	28.0	29.0	29.5	26.0	28.5
22	32.0	26.5	29.0	31.5	29.0	30.0	30.0	28.0	29.0	26.5	23.5	24.5
23	33.0	27.5	29.5	31.5	29.0	30.0	29.0	27.5	28.0	23.5	21.5	22.0
24	32.0	28.0	30.0	31.5	29.0	30.0	28.5	27.5	28.0	22.0	21.0	21.5
25	32.0	27.5	30.0	32.0	29.5	30.0	28.5	27.5	28.0	23.5	22.0	22.5
26	32.0	26.5	30.0	31.5	29.5	30.0	---	---	---	26.0	23.0	24.5
27	32.5	29.5	30.5	31.5	29.5	30.5	---	---	---	27.0	25.0	26.0
28	31.5	29.5	30.0	32.0	30.0	30.5	---	---	---	28.5	25.5	26.5
29	30.0	25.5	27.5	30.5	29.5	30.0	32.0	29.5	31.0	28.0	26.0	27.0
30	25.5	24.0	25.0	29.5	27.0	29.0	30.0	29.0	29.0	27.5	26.5	27.0
31	---	---	---	27.5	26.0	26.5	29.5	26.5	28.5	---	---	---
MONTH	33.0	22.5	27.5	32.0	25.5	28.5	32.0	25.5	28.0	31.5	21.0	27.5
YEAR	33.0	10.0	22.5									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.9	3.3	4.2	5.6	4.5	5.0	8.4	5.7	6.7	8.8	8.3	8.5
2	7.8	2.7	4.8	5.3	4.5	4.8	6.4	3.9	5.0	8.8	8.4	8.6
3	8.2	4.1	5.9	4.7	4.0	4.3	4.0	3.9	4.0	9.4	8.8	9.1
4	7.8	3.9	5.9	4.1	3.8	4.0	3.9	3.7	3.8	9.2	8.4	8.7
5	8.9	3.9	6.1	4.9	3.4	4.1	4.0	3.8	3.9	8.9	8.4	8.7
6	8.0	3.6	6.2	4.2	3.2	4.0	4.4	4.0	4.2	9.4	8.5	8.9
7	7.7	5.0	6.1	4.4	4.0	4.2	4.8	4.3	4.4	9.2	7.4	8.2
8	9.3	6.5	7.5	4.6	4.2	4.4	4.6	4.3	4.4	8.7	7.4	7.9
9	9.3	7.3	8.1	6.2	4.4	5.1	5.1	4.1	4.4	8.9	7.0	7.6
10	12.6	8.5	10.3	6.0	4.6	5.1	4.5	4.1	4.3	8.5	6.4	7.1
11	12.8	12.1	12.5	6.1	5.2	5.5	4.6	4.0	4.2	8.3	5.7	6.5
12	12.6	10.8	12.0	5.8	5.4	5.6	5.0	4.0	4.2	8.2	5.3	6.0
13	10.9	8.4	10.2	5.7	5.6	5.7	4.4	4.0	4.1	8.2	6.9	7.5
14	10.3	7.5	9.0	5.6	5.4	5.5	4.4	4.0	4.1	8.3	7.0	7.6
15	---	---	---	5.6	5.2	5.3	4.4	4.1	4.3	8.6	7.6	8.0
16	---	---	---	5.4	5.0	5.2	4.5	4.1	4.3	9.0	7.8	8.3
17	---	---	---	5.1	4.4	4.7	---	---	---	8.6	7.2	7.8
18	---	---	---	5.5	4.4	5.0	---	---	---	10.3	6.9	7.5
19	---	---	---	5.6	5.2	5.4	---	---	---	8.4	6.3	7.4
20	---	---	---	5.7	5.4	5.6	---	---	---	8.8	7.2	8.1
21	---	---	---	6.7	5.7	6.1	---	---	---	9.0	7.3	8.0
22	---	---	---	7.4	6.7	6.9	---	---	---	7.7	6.7	7.2
23	---	---	---	7.3	6.4	6.9	---	---	---	9.5	7.0	8.2
24	---	---	---	6.9	5.6	6.4	---	---	---	10.3	9.5	10.0
25	---	---	---	7.2	5.0	6.3	---	---	---	10.4	10.0	10.2
26	6.5	6.2	6.4	6.7	5.0	5.9	---	---	---	10.0	8.9	9.4
27	6.4	6.0	6.2	7.2	5.2	6.2	---	---	---	9.4	8.3	8.8
28	6.2	6.0	6.1	6.7	5.0	5.9	---	---	---	8.9	8.0	8.5
29	6.0	5.6	5.8	7.5	4.8	6.3	9.3	9.2	9.3	9.1	8.6	8.8
30	5.9	5.3	5.5	8.1	5.9	7.0	9.5	9.2	9.4	9.3	8.9	9.1
31	5.4	4.9	5.2	---	---	---	9.3	8.6	8.9	9.5	9.1	9.3
MONTH	12.8	2.7	7.2	8.1	3.2	5.4	9.5	3.7	5.2	10.4	5.3	8.2

08074610 BUFFALO BAYOU AT MCKEE STREET, HOUSTON, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.6	9.0	9.3	7.8	7.5	7.7	6.6	5.2	6.0	12.4	6.6	9.1
2	9.7	9.1	9.3	8.7	7.4	8.3	7.4	5.0	6.2	15.5	7.1	10.4
3	9.3	8.9	9.1	9.1	8.5	8.7	7.5	5.0	6.1	10.9	7.0	8.8
4	9.1	8.6	8.8	9.4	9.0	9.1	8.3	5.3	7.1	12.2	6.9	9.1
5	9.2	8.1	8.9	9.4	9.0	9.1	8.2	7.0	7.3	12.3	6.7	9.4
6	9.7	7.6	8.3	9.4	8.7	8.9	7.7	7.0	7.4	13.7	6.7	9.0
7	10.0	7.4	8.4	8.8	7.7	8.1	7.6	6.7	7.0	8.4	5.6	7.1
8	9.4	7.3	7.9	9.4	7.7	8.9	7.7	6.8	7.1	7.2	4.8	5.9
9	9.6	7.2	8.2	9.5	8.4	9.0	7.6	7.1	7.3	5.6	4.6	5.0
10	9.2	7.4	7.8	8.6	8.1	8.3	7.6	6.9	7.1	4.8	3.5	4.2
11	10.6	6.8	8.0	8.5	7.4	7.9	7.6	6.2	6.7	5.0	2.9	3.9
12	9.9	7.2	8.2	8.7	6.9	7.6	7.9	7.2	7.5	4.3	1.7	2.5
13	10.8	7.4	8.7	9.4	6.7	8.1	7.8	7.2	7.5	4.0	2.0	3.0
14	9.9	8.3	8.8	8.0	7.5	7.8	7.7	7.0	7.2	5.1	4.0	4.6
15	9.9	8.0	8.5	8.7	7.3	7.6	7.5	6.4	6.8	5.5	4.2	4.9
16	9.6	7.2	8.3	8.1	7.0	7.5	7.2	5.8	6.6	6.2	4.4	5.4
17	9.4	6.7	7.8	9.1	7.1	8.4	7.3	4.8	5.8	5.9	4.4	5.2
18	8.9	6.8	8.0	9.2	8.7	8.9	6.9	4.0	5.3	5.9	4.0	4.8
19	10.6	7.4	9.0	9.3	8.7	8.9	7.4	4.1	5.9	6.0	3.8	4.8
20	10.7	7.0	8.1	9.3	8.6	8.9	6.6	3.9	5.4	6.8	4.6	5.6
21	11.4	7.3	8.6	9.5	7.5	8.4	5.6	2.7	4.1	7.3	4.5	5.9
22	10.1	7.3	8.8	11.2	5.2	7.9	7.7	2.7	4.8	8.4	5.2	6.3
23	10.8	7.3	8.9	8.9	4.7	6.2	6.4	3.3	4.9	8.2	5.4	6.5
24	10.0	6.6	7.6	8.7	4.7	6.3	8.5	5.2	7.2	8.9	5.5	7.2
25	6.6	5.3	5.8	9.2	4.5	6.4	9.0	5.8	7.3	11.0	5.0	7.3
26	6.2	4.7	5.4	6.6	5.0	5.7	8.9	5.1	7.0	9.7	5.3	7.2
27	7.8	5.2	6.5	8.6	4.9	6.5	9.3	6.0	7.7	9.0	4.1	6.1
28	8.7	7.7	8.0	5.5	4.8	5.1	10.6	6.6	8.6	9.4	4.2	5.8
29	---	---	---	7.5	4.5	5.8	10.0	6.7	8.4	6.9	4.0	5.1
30	---	---	---	6.7	5.7	6.2	11.3	7.1	9.2	8.3	3.8	5.7
31	---	---	---	6.8	5.7	6.3	---	---	---	5.8	5.1	5.3
MONTH	11.4	4.7	8.2	11.2	4.5	7.7	11.3	2.7	6.7	15.5	1.7	6.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	5.0	6.0	---	---	---	4.7	2.7	3.8	5.6	2.5	3.6
2	5.3	4.9	5.0	---	---	---	5.7	1.4	3.6	4.9	2.5	3.5
3	5.1	3.2	4.0	---	---	---	4.7	3.8	4.2	5.9	1.1	3.3
4	4.5	2.9	3.6	---	---	---	5.4	3.8	4.6	7.2	1.2	4.1
5	6.5	4.0	4.6	5.8	4.2	4.4	5.5	3.9	4.6	6.1	1.7	3.6
6	---	---	---	5.1	3.9	4.3	6.5	2.4	4.3	6.0	1.5	3.5
7	---	---	---	5.3	2.9	4.2	6.6	2.3	4.6	9.2	2.2	4.5
8	---	---	---	5.7	4.4	4.7	6.0	3.5	4.4	5.9	1.6	3.7
9	---	---	---	5.7	4.6	5.0	6.2	2.8	4.3	7.0	1.9	4.2
10	---	---	---	6.1	4.2	5.3	7.3	2.8	4.7	7.6	2.4	5.0
11	---	---	---	5.7	4.2	4.9	5.2	1.8	3.1	7.5	1.7	4.6
12	---	---	---	5.8	4.3	5.1	5.8	1.1	3.6	3.2	1.7	2.5
13	---	---	---	9.7	3.1	5.6	5.4	1.2	3.7	---	---	---
14	---	---	---	5.0	2.3	3.1	5.7	3.5	4.3	4.3	1.8	3.9
15	---	---	---	3.8	1.2	2.2	4.6	3.6	4.0	4.9	1.1	3.1
16	---	---	---	6.4	2.7	4.1	6.2	2.0	3.9	3.9	.8	2.2
17	---	---	---	5.8	1.9	3.4	4.3	1.4	2.7	4.6	1.0	3.2
18	---	---	---	6.1	1.7	3.8	5.7	1.1	3.5	3.3	1.1	2.3
19	5.7	5.3	5.5	6.1	2.0	4.2	3.3	.8	1.8	3.3	.8	2.1
20	6.9	4.9	5.7	6.0	2.2	4.0	3.5	1.3	2.7	2.7	.2	1.3
21	6.9	4.0	5.2	7.7	3.6	5.2	5.7	1.5	3.3	4.7	.1	1.7
22	5.4	4.0	4.7	8.2	2.4	4.8	4.2	1.7	3.1	3.9	2.1	3.3
23	5.9	3.2	4.1	8.4	1.7	4.2	3.0	2.7	2.9	5.0	3.7	4.3
24	6.1	3.0	4.5	10.1	2.0	5.0	3.5	1.9	2.6	5.4	4.8	5.2
25	5.0	2.8	4.1	10.6	3.4	5.9	5.0	1.9	3.5	5.6	3.9	5.1
26	5.5	2.6	4.2	10.7	3.0	5.6	5.5	3.5	4.4	5.5	2.6	4.4
27	---	---	---	9.8	4.0	6.3	5.4	2.8	4.5	5.9	3.4	4.5
28	---	---	---	12.7	5.7	8.1	4.1	.4	2.4	7.9	3.6	5.3
29	---	---	---	7.6	3.6	5.7	6.3	2.0	3.6	6.8	2.8	4.5
30	---	---	---	5.0	1.5	3.4	5.2	.8	3.4	5.7	2.6	4.1
31	---	---	---	5.1	3.3	4.0	6.6	.8	3.4	---	---	---
MONTH	7.2	2.6	4.7	12.7	1.2	4.7	7.3	.4	3.7	9.2	.1	3.7
YEAR	15.5	.1	6.0									

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, 1.0 mi downstream from station 08074700, 1.8 mi upstream from Brays Bayou and 4.9 mi east of downtown Houston.

DRAINAGE AREA.--Not determined.

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--January 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, 1978 adjustment, unadjusted for land-surface subsidence.

REMARKS.--Records fair. Only very large storms or hurricane surge produces elevations above normal tidal fluctuations. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 9.1 ft June 26, 1989; minimum, -3.1 ft Mar. 6, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 7.1 ft Oct. 19 at 2400 hours; minimum, -1.9 ft Mar. 8.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3.4	1.2	2.6	2.6	.6	1.5	2.4	.4	1.7	2.4	-.4	1.1
2	3.1	1.7	2.4	2.8	1.1	2.1	3.3	.5	1.8	1.7	-.4	.6
3	2.8	1.4	2.2	2.7	.8	1.8	3.4	.8	2.2	2.1	.2	1.3
4	2.7	1.5	2.0	3.2	1.2	2.3	2.5	.0	1.3	1.7	-.3	.8
5	2.7	1.0	1.8	3.2	.7	2.1	2.0	.0	1.2	2.5	1.1	1.6
6	3.2	1.5	2.3	2.6	.0	1.3	2.0	.4	1.4	2.8	1.0	2.0
7	3.6	1.8	2.8	2.4	.7	1.7	2.0	.2	1.2	1.6	.1	.6
8	3.6	1.1	2.5	2.5	.7	1.7	1.7	.6	1.1	1.5	.1	.9
9	1.9	-.3	.8	2.4	.5	1.6	1.8	.2	.9	1.6	.1	1.0
10	1.6	.2	1.1	1.5	.5	.9	1.0	-1.2	-.2	1.6	.1	1.0
11	2.0	.5	1.4	1.8	.9	1.4	1.5	-.9	.0	1.8	.1	1.1
12	2.2	.6	1.5	2.3	.9	1.7	2.0	.5	1.4	2.7	.2	1.3
13	2.1	.6	1.6	2.7	1.5	2.1	1.9	.0	1.0	2.8	.2	1.1
14	2.2	.8	1.7	2.4	1.1	1.8	2.3	.4	1.6	.7	-1.8	-.6
15	4.3	1.5	2.9	2.1	.7	1.6	2.3	.4	1.5	1.0	-1.3	-.5
16	3.8	2.5	3.2	1.6	-.1	.8	2.5	.5	1.6	2.0	.1	1.0
17	6.7	3.3	4.3	2.2	.5	1.4	1.7	-.1	.8	2.5	.8	1.7
18	6.5	5.1	6.0	2.2	.5	1.4	1.8	-.3	.8	3.0	-.3	1.2
19	7.1	6.3	6.7	2.4	1.0	1.8	2.3	.4	1.5	.1	-1.7	-.9
20	7.1	4.8	5.8	2.5	1.1	1.9	2.6	1.0	1.9	1.3	-.3	.1
21	5.0	2.7	3.7	2.4	.0	1.3	2.5	.4	1.5	1.4	.0	.6
22	3.6	2.0	2.8	2.1	.4	1.4	2.2	-.3	.8	1.7	.5	1.1
23	3.4	1.6	2.4	2.1	.0	1.0	1.6	.2	.6	1.0	-.9	-.1
24	3.1	1.3	2.2	2.3	1.0	1.6	1.6	.3	.8	1.6	-.6	.5
25	2.9	1.0	2.0	2.6	.8	1.7	1.5	.2	.7	1.9	.1	1.1
26	2.3	1.0	1.6	2.1	1.0	1.5	1.5	-.4	.7	3.0	.4	1.6
27	2.6	1.3	2.0	2.7	1.2	1.9	1.7	.0	1.1	2.5	.8	1.8
28	2.5	1.3	1.8	2.1	.6	1.4	2.6	.7	1.7	2.1	.1	1.1
29	2.9	1.5	2.2	2.4	.7	1.7	2.2	-.2	.9	1.1	-.8	.2
30	3.1	1.7	2.3	2.0	-.1	1.0	2.0	-.3	.9	.7	-1.0	.0
31	2.5	1.1	1.8	---	---	---	2.5	.6	1.6	1.2	-.4	.5
MONTH	7.1	-.3	2.6	3.2	-.1	1.6	3.4	-1.2	1.2	3.0	-1.8	.8

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.3	-.3	.6	1.3	.0	.7	2.7	1.0	2.0	2.4	.7	1.5
2	1.4	-.1	.6	1.7	.5	1.1	2.5	1.0	1.8	2.2	-.2	1.1
3	1.3	-.5	.3	1.6	.4	1.0	2.9	1.1	2.2	3.2	1.0	2.2
4	-.2	-1.5	-1.0	1.9	.6	1.3	3.7	1.2	2.6	2.7	1.2	1.9
5	.7	-.8	.0	2.2	1.1	1.6	3.5	1.8	2.5	3.0	.4	1.8
6	1.6	-.5	.7	2.6	.7	1.9	2.7	1.2	2.1	2.8	e1.0	e1.8
7	1.6	-.1	.6	2.3	-.8	.7	2.9	1.2	2.1	3.3	e1.5	2.5
8	1.1	-.5	.3	.3	-2.0	-.9	2.9	1.3	2.1	3.7	1.7	2.6
9	1.7	-.2	1.0	1.7	-.2	.7	3.0	1.3	2.2	2.5	1.2	1.9
10	1.7	-.2	.8	2.3	.6	1.5	4.1	2.0	2.7	2.1	1.0	1.6
11	1.1	-.5	.4	2.4	.8	1.7	3.2	.5	1.5	e2.1	.5	1.5
12	1.6	-.8	.3	2.7	1.1	2.0	2.3	.6	1.4	e2.6	e.8	e2.1
13	2.0	.4	1.4	3.2	1.9	2.6	1.9	.7	1.3	e2.2	e.9	e2.4
14	2.2	.6	1.5	2.4	1.0	1.9	2.5	.8	1.8	e3.2	e1.2	e2.3
15	2.2	.7	1.5	2.2	1.0	1.7	2.8	1.2	2.1	e2.7	e.5	e1.8
16	1.7	.0	.9	2.0	.5	1.3	2.7	1.0	2.0	2.8	e.7	e2.0
17	1.0	-.6	.1	1.8	.7	1.3	3.4	1.0	2.3	3.6	1.3	2.6
18	1.4	-.2	.6	1.9	.7	1.2	3.2	1.0	2.3	2.8	.9	1.9
19	1.2	-.1	.6	1.7	.3	1.2	3.3	1.1	2.3	1.5	-.3	.7
20	1.0	-.5	.3	2.2	.4	1.4	3.6	1.5	2.4	2.1	.1	1.2
21	1.1	-.6	.3	2.0	.1	1.3	2.9	.9	2.0	2.5	1.0	1.8
22	1.4	-.4	.6	2.3	.2	1.4	2.9	1.0	2.0	2.5	1.3	1.8
23	1.5	-.3	.8	2.1	.1	1.2	1.9	-.2	.7	2.7	1.5	2.2
24	1.2	-.6	.5	2.4	.3	1.4	1.6	-.5	.4	2.6	1.2	2.2
25	1.8	.1	1.1	3.0	1.3	2.2	2.4	1.0	1.7	2.4	.9	1.7
26	2.1	.6	1.5	2.9	1.5	2.3	3.1	1.5	2.4	2.5	.7	1.9
27	1.9	.2	1.2	2.2	.7	1.7	2.4	1.2	1.7	3.1	1.2	2.3
28	2.0	.2	1.1	2.7	1.3	2.0	2.3	.6	1.7	2.8	1.0	2.0
29	---	---	---	3.2	1.7	2.4	3.0	1.2	2.1	3.1	.7	1.8
30	---	---	---	2.6	1.3	2.1	2.4	.8	1.7	3.6	.8	1.8
31	---	---	---	2.8	1.4	2.0	---	---	---	2.4	.3	1.6
MONTH	2.2	-1.5	.7	3.2	-2.0	1.5	4.1	-.5	1.9	3.7	-.3	1.9

e Estimated

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2.4	.1	1.5	1.6	.1	.9	3.7	2.1	2.7	2.4	.6	1.6
2	2.5	.6	1.5	1.7	-.1	1.0	3.8	2.0	2.8	2.3	.6	1.7
3	2.6	.9	1.8	1.9	.3	1.2	2.8	1.0	2.0	2.4	.7	1.8
4	2.6	1.0	1.8	3.0	1.3	2.0	2.1	.3	1.4	2.5	.7	1.8
5	2.5	.9	1.7	3.0	1.2	2.0	2.1	.6	1.6	3.1	.7	2.1
6	2.4	1.2	1.7	2.2	.5	1.6	e3.1	.9	e2.3	3.4	1.2	2.3
7	2.7	1.3	2.1	1.7	-.1	1.1	e3.2	e1.1	e2.3	2.9	1.3	2.4
8	2.5	1.3	2.0	1.5	-.2	1.0	3.1	e1.3	e2.2	2.7	1.3	2.1
9	2.9	1.3	2.2	1.8	-.1	1.2	3.4	e1.2	e2.2	2.6	1.3	1.8
10	2.7	.8	1.9	1.6	-.1	.9	2.7	1.8	e2.3	2.6	1.2	1.9
11	2.6	-.3	1.1	1.5	-.4	.7	3.1	1.2	2.4	2.5	1.3	1.9
12	1.1	-.9	.4	1.4	-.6	.6	2.7	1.6	e2.4	2.5	1.2	1.8
13	2.0	-.6	1.0	1.6	-.4	.9	e2.8	1.3	e2.1	2.5	e1.0	e1.8
14	1.9	-.1	1.2	e2.7	.3	e1.5	e2.7	1.5	e2.1	2.3	1.2	1.8
15	2.0	.0	1.3	e2.3	1.0	e1.6	2.4	1.4	1.9	2.5	1.3	2.1
16	2.4	.4	1.5	1.9	.6	1.5	2.4	1.2	1.9	2.6	1.2	2.1
17	2.8	.8	2.0	1.6	.6	1.1	2.4	1.0	1.8	2.5	.8	1.9
18	3.5	1.8	2.6	1.5	.3	.9	2.2	.6	1.6	2.4	.8	1.9
19	2.2	.9	1.7	1.3	.1	.9	2.3	.6	1.7	2.7	1.1	2.2
20	1.5	.3	1.1	1.7	.1	1.0	2.1	.6	1.5	2.4	1.0	1.8
21	1.3	.2	.8	1.5	.1	1.0	2.1	.6	1.5	2.6	1.0	1.7
22	1.2	-.1	.7	1.6	.0	1.0	2.4	.6	1.7	1.5	.3	.9
23	1.6	-.2	.9	1.6	-.1	1.0	2.7	.7	1.9	2.5	.8	1.7
24	1.8	.0	1.1	e1.9	.1	e1.9	2.5	1.0	e1.9	2.9	1.3	2.1
25	1.8	.0	1.1	1.8	.1	1.2	2.5	.8	1.9	3.1	1.8	2.4
26	1.8	-.3	1.1	1.7	.2	1.1	2.6	1.0	1.9	3.0	1.4	e2.3
27	2.0	.2	1.3	1.6	.0	1.0	2.5	1.0	1.7	2.9	1.3	2.1
28	2.2	.2	1.4	1.6	.0	1.0	2.1	1.1	1.6	2.7	1.1	2.0
29	3.0	.1	1.5	2.0	.2	1.2	2.0	.8	e1.4	3.0	1.7	2.5
30	2.7	.5	1.6	3.3	1.4	2.6	2.4	1.4	e1.9	3.6	2.0	3.0
31	---	---	---	3.9	2.6	3.2	2.7	1.1	2.0	---	---	---
MONTH	3.5	-.9	1.5	3.9	-.6	1.3	3.8	.3	2.0	3.6	.3	2.0
YEAR	7.1	-2.0	1.6									

e Estimated

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1986 to current year.
WATER TEMPERATURE: April 1986 to current year.
DISSOLVED OXYGEN: April 1986 to current year.

INSTRUMENTATION.--Since April 1986, a three-parameter water-quality monitor continuously records specific conductance, water temperature, and dissolved oxygen at this station. In Sept. 1995, a digital QW multiprobe was installed as a replacement to the Mini-monitor.

REMARKS.--Water-quality monitor data have been collected one foot below the water surface since February 3, 1988. From April 1986 to January 1987 data were collected at a fixed elevation of 6.5 ft below sea level using a submersible pump. From February 1987 until January 1988 data were collected at a fixed elevation of 5.5 ft below using a submersible pump. Dissolved oxygen data are not corrected for salinity. The upper limit of the specific conductance instrument is 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 Oct. 12-14, Dec. 13, 1988, Jan. 23, 1989; minimum, 60 microsiemens June 26, 1989.
WATER TEMPERATURE: Maximum, 36.5°C Aug. 21, 1990; minimum, 8.0°C Feb. 10-11, 1994.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L Jul. 23, 1995; minimum, 0.0 mg/L on several days during 1987-88 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maxiumum, 12,800 microsiemens Aug. 30; minimum, 93 microsiemens Oct. 18.
WATER TEMPERATURE: Maximum, 34.0°C Jul. 28; minimum, 13.0°C Jan. 4-5.
DISSOLVED OXYGEN: Maximum, 13.6 mg/L Jul. 23; minimum, 1.0 mg/L Nov. 30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10500	5510	8430	269	151	182	7140	3270	5020	1170	513	873
2	8380	5080	6190	244	171	196	6680	3420	4830	1390	816	1080
3	9240	4470	6620	278	166	192	5620	308	1070	2530	952	1680
4	10100	6830	8530	278	156	202	640	371	454	2490	1240	1680
5	11100	5950	8070	342	195	267	938	581	698	2710	1510	2000
6	11100	7160	8630	366	230	303	1150	586	861	4240	1990	2940
7	11100	5630	7620	498	171	328	1080	532	690	5730	1900	3700
8	7310	806	4300	230	166	196	864	586	678	5290	2300	3800
9	6870	806	1610	225	161	195	2330	835	1510	5900	2210	3610
10	6870	2260	4040	293	200	258	4040	1680	2690	6210	2760	4370
11	3530	2230	2630	298	259	281	3030	1230	1850	6650	2820	3960
12	4480	1980	3430	274	195	219	4210	2060	3180	6670	2910	4560
13	6970	1910	3860	254	186	210	3640	1500	2440	3440	225	499
14	5740	3800	4790	322	215	259	3030	1740	2490	933	381	688
15	7230	386	3770	635	288	392	3600	821	1700	996	498	712
16	386	249	287	640	337	485	1320	322	779	825	317	530
17	796	171	371	640	337	531	708	366	507	723	376	515
18	244	93	129	703	298	468	1020	547	794	1290	234	608
19	161	117	131	503	303	413	1050	381	688	449	278	352
20	205	156	176	1510	313	486	845	396	630	801	366	536
21	293	186	235	943	591	672	1020	425	612	1880	376	574
22	347	244	310	1210	523	912	1550	684	1040	1880	537	889
23	400	264	339	977	493	656	1230	620	939	772	366	523
24	332	210	257	1980	488	963	1960	1050	1430	791	352	519
25	215	176	198	1870	816	1160	3770	1150	1730	2350	352	567
26	698	200	247	1640	825	1240	2790	1210	1730	2350	415	584
27	274	195	236	3230	1340	1860	3270	1660	2360	479	171	218
28	386	147	193	3680	1250	2090	3250	669	2210	371	210	256
29	190	127	167	6860	2190	3810	703	293	392	518	293	362
30	181	127	158	6720	2200	4310	1310	391	573	484	244	351
31	210	137	166	---	---	---	957	410	608	386	234	298
MONTH	11100	93	2780	6860	151	791	7140	293	1520	6670	171	1410

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	410	239	271	542	361	424	645	459	511	1010	845	909
2	293	234	259	728	405	568	1290	601	766	1140	896	1030
3	283	249	266	679	371	499	1230	806	1040	1460	768	1050
4	313	269	288	650	396	534	1320	347	853	2800	708	1030
5	430	303	345	542	391	475	347	186	227	1350	869	1020
6	630	396	477	796	308	455	259	195	219	1310	918	1010
7	2280	630	1180	977	503	678	293	244	273	2110	943	1080
8	2830	947	1440	889	479	684	742	283	369	1440	615	1110
9	2930	1180	1890	816	396	549	742	308	368	615	244	381
10	4930	2070	3030	752	425	589	347	254	302	757	347	501
11	6520	2520	3800	767	503	607	381	278	312	835	503	567
12	7600	2540	4070	1500	503	809	381	274	310	640	498	602
13	6730	2640	4690	1520	205	811	845	220	286	816	620	664
14	9120	3310	4770	376	210	259	259	230	241	1080	547	619
15	5280	2260	4060	479	357	413	254	230	243	654	611	630
16	9430	2590	4450	576	405	482	288	230	254	1890	635	746
17	11500	5810	7710	576	357	499	366	254	289	772	654	697
18	11500	6080	8560	371	249	285	410	317	343	1010	567	643
19	9890	5990	7900	2580	239	359	513	391	434	1010	571	616
20	9540	6340	7880	361	239	262	591	415	506	840	630	689
21	12400	7080	9650	415	259	286	513	440	458	786	664	681
22	11800	6360	8520	498	366	422	620	493	539	1470	654	717
23	8960	5210	6760	552	396	493	620	542	574	3650	664	1050
24	7720	3490	5070	591	474	547	562	523	537	943	674	739
25	5570	3020	4190	674	532	614	1450	544	647	835	679	750
26	5450	2730	3530	713	640	689	735	611	666	1100	772	920
27	5210	2050	3210	840	703	768	789	611	724	1500	830	1070
28	4340	337	1090	860	620	770	751	658	694	5160	737	1070
29	---	---	---	879	615	761	2040	694	906	1230	762	924
30	---	---	---	694	518	591	2930	832	950	772	166	433
31	---	---	---	532	469	493	---	---	---	249	166	199
MONTH	12400	234	3910	2580	205	538	2930	186	495	5160	166	779

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	606	200	251	1280	454	670	4170	2140	3420	3250	996	1720
2	3190	181	334	2340	904	1460	5150	547	3040	4200	2150	2770
3	2380	234	419	8400	1080	2050	2190	527	984	4170	1810	2830
4	4410	298	535	5770	972	1910	2940	1170	2060	5450	2640	3280
5	943	391	436	1780	567	1010	10300	1750	2970	9250	3110	5840
6	4960	425	789	1190	547	688	3720	1660	2880	8750	5500	6840
7	4790	484	729	2630	669	1020	4140	2270	2830	12200	4940	7100
8	1510	459	579	1840	894	1210	4220	2660	3050	9120	4830	6500
9	5850	440	981	2720	991	1380	4420	2280	3430	9770	4940	6700
10	1430	464	576	5450	1170	1720	6590	3550	4280	9640	5280	6750
11	547	400	466	2800	1390	2120	4570	2640	3390	9520	5040	6770
12	454	327	363	2410	1100	1570	4480	1480	3280	7900	3350	5120
13	400	303	341	2900	1350	2030	2340	908	1550	5230	2640	3120
14	3780	332	634	2710	1330	2020	3360	772	1500	---	---	---
15	391	322	348	2720	1490	2180	1610	640	1140	---	---	---
16	332	288	305	5040	1360	2530	3250	1310	2310	---	---	---
17	674	283	318	3510	1110	1610	5280	1860	3150	---	---	---
18	308	278	293	5290	2150	3950	4300	1680	2930	---	---	---
19	884	181	326	7870	2970	4570	3530	1980	2630	---	---	---
20	464	298	346	8360	2410	5300	6100	2080	3100	---	---	---
21	569	347	409	6200	2410	4010	6100	2390	4450	---	---	---
22	561	389	462	5870	3050	4400	6390	3220	4840	---	---	---
23	669	445	525	7560	2910	4030	4620	1090	1940	---	---	---
24	3820	636	870	6520	3430	5170	3590	1660	2000	---	---	---
25	1950	899	1310	10300	3190	4960	3500	1550	2430	---	---	---
26	3660	1310	2120	8640	4190	5420	5680	2250	3340	---	---	---
27	3660	2410	2900	8180	4060	5250	5310	2100	3340	4200	2960	3240
28	5080	2070	3130	7520	4130	5620	6380	2750	4030	7000	3620	4940
29	4330	990	2930	8230	4750	6840	5630	3200	4380	9700	5250	6450
30	1720	459	1020	7710	5830	6560	12800	3360	5540	8110	5190	6210
31	---	---	---	5890	2140	3690	7610	1130	4900	---	---	---
MONTH	5850	181	835	10300	454	3130	12800	527	3070	12200	996	5070
YEAR	12800	93	1900									

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	28.5	26.5	27.5	22.0	21.0	21.5	21.5	19.5	20.5	16.5	14.0	15.0
2	28.5	26.5	27.5	22.0	21.5	21.5	21.5	19.0	20.0	15.5	14.0	14.5
3	29.5	26.5	28.0	22.5	21.5	22.0	20.5	17.5	18.5	16.5	14.0	15.0
4	29.5	27.0	28.0	23.0	22.5	22.5	20.0	18.5	19.5	15.5	13.0	14.0
5	29.0	27.0	28.0	23.5	22.5	23.0	22.0	19.0	21.0	16.0	13.0	14.5
6	29.0	27.0	27.5	23.0	22.5	22.5	21.5	20.0	20.5	16.5	14.0	15.0
7	28.5	27.0	28.0	22.5	22.0	22.0	22.0	20.5	21.5	15.5	14.0	14.5
8	28.0	24.5	26.5	22.5	22.0	22.0	24.5	21.0	23.0	17.5	14.5	15.5
9	24.5	23.5	24.0	23.0	22.0	22.5	23.0	21.0	22.0	17.5	16.0	16.5
10	25.5	23.5	24.5	22.5	22.0	22.0	21.0	19.5	20.5	18.5	16.5	17.0
11	24.0	22.5	23.0	22.0	20.5	21.5	20.0	18.5	19.5	19.5	18.0	18.5
12	24.0	22.0	23.0	21.0	20.0	20.5	20.5	19.0	19.5	19.0	17.0	18.5
13	24.0	22.0	23.0	21.0	20.0	20.5	19.5	18.0	19.0	18.5	17.0	17.5
14	24.5	22.5	23.5	21.0	20.0	20.5	21.0	18.0	19.5	17.0	16.0	16.5
15	24.0	21.5	23.0	21.5	20.5	21.0	20.5	18.0	19.0	16.5	15.5	16.0
16	23.5	22.0	22.5	21.0	20.5	20.5	20.5	18.5	20.0	16.0	15.0	15.5
17	24.5	22.5	24.0	21.0	20.5	20.5	20.0	19.5	19.5	16.5	16.0	16.0
18	22.5	22.0	22.5	21.5	20.0	20.5	20.0	19.0	19.5	19.0	16.5	17.5
19	22.5	22.0	22.0	21.5	20.5	21.0	19.5	17.5	18.5	18.5	17.5	18.0
20	24.5	22.5	23.5	21.0	20.5	21.0	18.5	17.0	18.0	17.5	15.5	16.5
21	25.5	23.5	24.5	22.0	20.5	21.0	18.0	17.0	17.0	18.5	15.5	16.5
22	26.0	25.0	25.5	21.5	20.0	21.0	18.0	17.0	17.5	17.5	15.5	16.5
23	26.0	25.5	25.5	20.0	18.5	19.5	20.0	17.0	18.0	17.0	16.0	16.5
24	25.5	24.5	25.0	19.5	18.5	19.0	19.0	17.0	18.0	16.0	14.0	15.0
25	24.5	24.5	24.5	21.5	19.0	20.5	18.5	17.0	17.5	14.5	13.0	14.0
26	24.5	23.5	24.0	22.0	20.0	21.0	19.0	16.5	17.5	17.5	13.5	14.5
27	23.5	22.0	22.5	23.0	21.5	22.0	19.0	17.0	18.0	18.5	17.5	18.0
28	22.0	22.0	22.0	22.0	20.0	21.0	18.5	14.5	17.0	19.0	18.5	18.5
29	22.0	21.5	22.0	21.5	20.5	21.0	15.0	14.0	14.0	19.0	17.5	18.0
30	22.0	21.5	22.0	21.5	19.5	20.0	15.0	14.0	14.5	17.5	16.0	16.5
31	22.0	21.5	22.0	---	---	---	15.5	14.5	15.0	16.5	15.5	16.0
MONTH	29.5	21.5	24.5	23.5	18.5	21.0	24.5	14.0	19.0	19.5	13.0	16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	15.5	15.5	15.5	19.0	18.0	18.5	20.5	18.5	19.5	26.0	24.5	25.5
2	16.0	15.0	15.5	19.0	17.0	17.5	22.0	19.0	20.0	26.5	24.5	25.5
3	16.5	15.5	16.0	17.0	16.0	16.5	21.0	19.5	20.5	26.0	24.5	25.0
4	16.5	16.0	16.0	16.0	15.0	15.5	21.5	19.0	20.5	29.0	25.0	26.5
5	18.0	16.5	17.0	16.5	15.5	15.5	19.0	18.5	19.0	26.5	25.5	26.0
6	18.0	17.0	17.5	19.0	16.0	17.0	20.0	18.5	19.0	28.0	26.0	26.5
7	18.5	17.0	17.5	18.0	17.0	17.5	21.5	19.0	20.0	26.5	26.0	26.5
8	18.0	16.5	17.0	17.0	15.5	16.0	23.5	20.5	21.5	26.0	22.0	24.5
9	18.5	17.0	17.5	16.0	14.5	15.0	23.5	21.0	22.0	27.0	21.5	23.0
10	19.5	17.5	18.5	16.0	14.5	15.0	22.0	21.5	22.0	27.5	22.5	23.5
11	20.0	17.5	18.5	17.0	16.0	16.5	22.0	21.0	21.5	25.0	23.5	24.5
12	19.0	15.5	16.5	19.0	16.5	18.0	22.5	21.0	21.5	26.0	24.0	25.0
13	18.5	15.5	17.0	18.5	17.0	17.5	22.0	21.0	21.5	27.0	25.5	26.0
14	19.0	16.5	17.5	19.0	17.5	18.0	23.5	21.0	22.0	29.5	26.0	27.5
15	19.5	17.0	18.5	19.5	18.5	19.0	22.0	21.5	22.0	30.0	27.0	28.5
16	19.5	17.0	18.0	20.0	19.0	19.5	24.0	21.5	22.5	28.5	27.5	28.0
17	18.0	16.0	16.5	20.0	19.0	19.5	24.0	22.5	23.0	28.5	28.0	28.0
18	19.0	16.5	17.5	20.5	19.0	19.5	25.0	23.5	24.0	28.5	27.5	28.0
19	19.0	17.0	18.0	20.5	19.5	20.0	25.0	24.0	24.5	29.0	27.0	27.5
20	19.0	17.0	18.0	21.5	20.0	21.0	25.5	24.0	25.0	28.5	27.0	27.5
21	19.5	17.5	18.0	22.5	21.0	21.5	25.5	24.0	24.5	29.0	27.0	28.0
22	20.0	17.5	18.5	24.5	22.5	23.0	25.0	24.5	24.5	29.5	27.0	28.0
23	21.0	18.5	19.5	25.5	23.0	24.0	24.5	23.5	24.0	29.0	27.5	28.0
24	21.0	18.5	20.0	24.0	23.0	23.5	24.0	23.0	23.5	29.0	27.5	28.0
25	20.0	18.5	19.0	24.5	23.0	23.5	25.0	23.0	23.5	29.0	27.5	28.5
26	20.0	19.0	19.5	25.0	23.0	24.5	24.5	23.5	24.0	29.5	28.0	28.5
27	21.0	20.0	20.5	24.5	23.5	24.0	25.5	23.5	24.5	29.0	27.5	28.5
28	20.0	18.5	19.0	24.0	22.5	23.0	25.5	24.0	24.5	29.5	28.5	29.0
29	---	---	---	23.0	21.0	22.0	25.5	24.0	24.5	29.0	27.0	28.0
30	---	---	---	21.0	19.0	20.0	26.5	24.5	25.5	27.0	23.0	24.5
31	---	---	---	19.0	18.5	19.0	---	---	---	26.5	23.0	24.5
MONTH	21.0	15.0	18.0	25.5	14.5	19.5	26.5	18.5	22.5	30.0	21.5	26.5

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	23.5	24.0	28.0	25.5	26.5	29.5	29.0	29.5	29.5	29.0	29.0
2	27.0	23.5	25.0	30.0	26.5	27.5	29.5	28.0	29.0	31.5	28.5	29.5
3	28.0	25.5	26.5	29.5	27.5	28.5	29.5	28.0	28.5	32.5	29.5	30.5
4	29.0	26.5	27.5	29.0	28.0	28.5	30.0	28.0	29.0	33.5	30.0	31.0
5	29.5	27.5	28.5	29.0	27.5	28.0	32.0	29.0	30.0	32.0	30.0	31.0
6	29.5	28.0	28.5	31.0	28.0	29.5	32.0	30.0	30.5	32.5	30.5	31.5
7	30.0	28.0	29.0	31.5	28.5	29.5	32.5	30.0	31.0	32.0	30.0	31.0
8	30.0	28.5	29.5	32.0	28.5	30.0	32.5	30.0	31.0	31.5	29.5	31.0
9	30.5	29.0	29.5	33.0	29.0	30.5	32.5	30.0	31.0	32.5	30.0	31.0
10	30.5	29.0	30.0	32.5	29.5	30.5	32.0	30.5	31.0	32.5	30.0	31.0
11	29.5	27.5	28.5	31.5	29.5	30.5	31.5	30.0	30.5	32.0	30.5	31.0
12	27.5	26.5	27.0	32.0	29.5	30.5	31.0	30.0	31.0	30.5	29.0	30.0
13	29.5	26.0	27.0	32.5	30.0	31.0	30.0	29.0	29.5	29.5	29.0	29.0
14	29.5	26.5	27.5	32.0	30.0	31.0	30.0	29.0	29.5	---	---	---
15	28.5	27.0	27.5	31.0	30.0	30.5	31.0	29.0	29.5	---	---	---
16	28.0	27.0	27.5	31.5	29.5	30.0	31.0	29.0	30.0	---	---	---
17	28.5	27.0	27.5	31.0	28.5	29.5	32.5	29.5	30.5	---	---	---
18	27.5	27.0	27.5	31.5	29.5	30.5	31.5	30.0	30.5	---	---	---
19	30.0	27.0	27.5	32.5	29.5	30.5	32.5	29.5	30.5	---	---	---
20	30.0	27.5	28.0	32.0	29.5	31.0	33.0	30.0	31.0	---	---	---
21	31.5	27.5	28.5	32.5	30.0	31.0	32.5	30.0	31.0	---	---	---
22	30.5	27.5	28.5	32.5	30.0	31.0	32.5	30.5	31.0	---	---	---
23	30.5	28.0	29.0	33.0	30.0	31.5	32.0	30.0	30.5	---	---	---
24	29.5	28.5	29.0	33.0	30.5	31.5	32.5	29.5	30.5	---	---	---
25	31.0	28.5	29.0	32.5	30.5	31.5	32.5	30.0	31.0	27.5	26.0	26.5
26	32.0	28.5	30.0	33.5	30.5	32.0	32.0	30.0	31.0	29.0	25.5	27.0
27	31.5	29.0	30.0	33.0	30.5	32.0	32.0	30.5	31.0	29.5	26.5	28.0
28	30.5	29.0	29.5	34.0	31.0	32.0	32.5	30.0	31.0	29.5	27.0	28.0
29	29.5	28.0	28.5	32.0	30.5	31.0	32.0	30.5	31.5	30.0	27.0	28.5
30	28.0	25.5	26.5	30.5	30.0	30.5	32.0	30.5	31.0	29.5	27.5	28.5
31	---	---	---	31.0	29.5	30.0	32.0	29.5	31.0	---	---	---
MONTH	32.0	23.5	28.0	34.0	25.5	30.0	33.0	28.0	30.5	33.5	25.5	29.5
YEAR	34.0	13.0	23.5									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.6	2.0	3.2	6.5	4.6	5.0	4.3	1.3	2.8	7.4	6.1	6.7
2	4.9	3.2	4.1	5.5	4.4	4.7	4.3	2.3	3.2	7.1	5.9	6.5
3	5.2	3.3	4.2	4.7	4.0	4.4	8.0	3.6	6.7	6.8	5.0	6.0
4	5.5	3.0	4.4	4.6	3.9	4.2	6.7	5.0	5.9	7.3	5.7	6.6
5	5.6	3.6	4.7	4.3	3.2	3.9	6.9	4.9	5.5	7.1	5.9	6.6
6	5.4	3.6	4.6	4.5	2.4	3.4	5.7	4.4	5.0	7.3	4.3	5.9
7	5.2	4.0	4.7	4.4	2.0	3.1	6.6	4.9	5.8	7.3	5.0	5.9
8	4.6	1.3	3.7	4.2	3.0	3.5	6.8	5.3	6.1	7.1	5.5	6.4
9	4.6	2.1	4.3	3.9	2.8	3.4	5.6	4.1	4.7	7.0	5.6	6.3
10	4.3	2.1	3.8	4.0	2.7	3.1	5.4	3.2	4.2	6.5	5.5	6.2
11	5.2	3.7	4.3	4.7	2.3	3.2	6.9	4.0	5.0	7.4	6.1	6.5
12	5.4	3.8	4.8	4.5	3.0	3.7	6.2	2.6	4.5	6.9	5.7	6.2
13	5.3	4.0	4.9	4.6	2.7	3.7	5.6	3.3	4.6	8.7	5.7	7.1
14	5.5	4.1	5.0	4.5	3.4	3.8	6.7	4.9	5.5	8.2	6.4	6.8
15	6.3	3.9	5.4	4.5	3.3	3.8	8.5	5.2	6.1	8.1	6.6	7.2
16	6.4	4.7	6.0	4.5	3.5	4.0	6.9	5.7	6.2	8.3	7.1	7.7
17	6.0	4.7	5.5	5.1	3.5	4.2	6.5	5.8	6.3	8.0	7.5	7.8
18	6.0	5.0	5.5	5.3	3.4	4.4	6.4	5.2	5.7	7.7	6.9	7.4
19	5.6	5.3	5.5	5.3	4.3	4.9	7.6	6.0	6.7	7.7	6.1	6.6
20	5.6	5.1	5.3	5.0	3.4	4.4	8.3	6.5	7.1	8.3	5.9	7.0
21	5.3	5.0	5.1	4.9	3.8	4.5	8.8	6.8	7.3	8.7	6.1	7.5
22	5.5	5.0	5.2	5.4	3.6	4.4	7.9	5.9	6.8	8.4	6.0	6.7
23	5.6	5.1	5.4	5.7	4.7	5.3	8.0	5.8	6.7	8.6	6.6	7.4
24	5.8	5.2	5.5	6.0	3.5	5.2	7.2	4.9	5.9	8.2	6.5	7.3
25	5.9	5.5	5.7	5.9	3.5	4.9	6.9	5.2	5.8	8.4	7.1	7.9
26	6.0	4.7	5.5	5.2	3.9	4.6	7.0	5.3	6.0	7.7	6.4	7.2
27	5.6	4.5	5.1	5.0	3.7	4.5	7.0	5.3	6.1	7.3	5.7	6.6
28	8.3	5.2	5.7	4.9	3.5	4.2	8.4	5.8	6.9	6.4	5.5	6.0
29	6.2	5.4	5.6	5.2	2.5	3.8	8.9	7.9	8.3	5.6	4.8	5.4
30	7.2	5.0	5.4	4.2	1.0	3.1	8.0	6.3	7.3	---	---	---
31	6.5	4.6	5.1	---	---	---	7.9	6.8	7.4	6.5	5.5	6.0
MONTH	8.3	1.3	4.9	6.5	1.0	4.1	8.9	1.3	5.9	8.7	4.3	6.7

08074710 BUFFALO BAYOU AT TURNING BASIN, HOUSTON, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.8	5.8	6.2	4.3	2.6	3.6	5.9	3.2	4.3	5.5	3.6	4.7
2	8.1	6.1	6.7	3.6	2.2	2.9	6.6	4.0	5.2	5.6	3.6	4.6
3	8.1	6.0	7.0	---	---	---	6.1	4.9	5.6	4.9	3.7	4.2
4	7.7	6.4	7.0	---	---	---	7.2	5.0	6.2	5.3	3.5	4.4
5	7.1	5.8	6.6	---	---	---	7.0	6.2	6.6	4.4	2.9	3.8
6	7.9	5.2	6.1	---	---	---	7.4	5.9	6.5	5.4	3.1	4.2
7	6.2	4.4	5.3	7.3	6.6	7.1	7.3	5.6	6.2	4.8	3.0	4.0
8	5.7	5.2	5.2	8.2	6.7	7.1	6.6	5.5	5.9	4.6	2.4	3.4
9	---	---	---	9.3	8.0	8.7	7.2	4.5	6.1	4.6	3.6	4.2
10	8.0	4.0	6.0	8.9	8.2	8.7	9.0	6.6	7.8	5.6	2.0	3.5
11	6.2	4.5	5.3	8.9	8.1	8.4	8.9	7.3	7.9	5.1	3.2	4.3
12	6.6	5.6	6.5	9.0	7.3	8.3	9.7	6.5	7.7	4.7	2.3	3.8
13	6.3	4.5	5.7	8.3	7.2	7.9	9.5	6.8	8.1	4.5	2.7	3.7
14	6.2	4.7	5.5	8.5	6.8	7.4	10.0	7.7	8.5	6.4	2.6	4.3
15	6.2	4.6	5.5	7.4	6.0	6.7	8.3	7.1	7.7	6.5	2.9	4.8
16	6.6	5.0	5.6	7.3	5.8	6.4	8.8	6.9	7.8	5.4	3.3	4.3
17	5.8	4.8	5.3	7.2	4.6	5.8	8.5	6.9	7.7	5.0	3.9	4.2
18	6.2	4.6	5.2	7.5	6.7	7.2	8.1	5.7	7.3	4.0	3.4	3.7
19	5.9	3.9	4.9	7.5	6.8	7.1	7.5	6.2	6.7	5.0	3.2	3.8
20	6.7	4.1	5.0	7.6	6.5	6.9	7.0	4.2	5.9	5.6	3.4	4.1
21	6.3	4.2	5.2	6.5	5.8	6.2	5.6	3.8	4.5	5.6	3.0	4.1
22	7.2	4.2	5.6	6.8	5.7	6.1	5.1	3.2	4.0	5.5	3.3	4.4
23	7.6	4.8	5.7	7.8	5.3	6.2	4.6	2.2	3.3	5.1	3.3	4.3
24	6.5	4.4	5.4	6.5	5.1	5.8	2.7	1.1	1.7	6.7	4.3	4.7
25	6.0	4.2	5.1	6.4	4.4	5.3	4.8	1.4	2.8	5.3	4.2	4.6
26	5.1	2.8	4.2	7.1	4.4	5.7	4.2	2.3	3.5	5.6	3.9	4.6
27	7.4	3.1	4.3	7.5	4.6	5.8	5.6	2.3	4.2	5.0	4.1	4.4
28	4.9	3.4	4.0	7.4	4.1	6.3	5.1	3.1	4.1	5.6	4.2	4.7
29	---	---	---	6.3	3.7	4.8	6.0	4.1	4.8	4.9	3.7	4.4
30	---	---	---	5.6	3.9	4.6	5.6	4.7	5.1	6.2	3.4	4.7
31	---	---	---	5.1	3.2	4.1	---	---	---	8.1	4.6	5.2
MONTH	8.1	2.8	5.6	9.3	2.2	6.3	10.0	1.1	5.8	8.1	2.0	4.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.2	4.2	4.7	6.3	3.2	4.2	---	---	---	---	---	---
2	6.0	4.7	5.0	7.3	1.9	3.8	---	---	---	---	---	---
3	6.2	4.7	5.0	7.3	3.3	4.8	5.2	2.9	4.5	---	---	---
4	6.7	4.7	5.3	---	---	---	5.1	2.3	3.6	---	---	---
5	6.3	4.6	5.1	---	---	---	6.7	2.3	4.4	---	---	---
6	6.0	4.2	4.7	---	---	---	6.0	4.0	4.5	---	---	---
7	5.8	4.5	5.0	---	---	---	---	---	---	---	---	---
8	5.4	4.3	4.8	---	---	---	---	---	---	---	---	---
9	5.1	4.2	4.7	---	---	---	---	---	---	---	---	---
10	5.4	4.0	4.7	---	---	---	---	---	---	---	---	---
11	4.8	2.2	3.9	4.9	2.4	3.5	---	---	---	---	---	---
12	5.3	2.9	3.7	5.5	2.4	3.7	---	---	---	---	---	---
13	5.5	1.9	3.3	7.7	2.5	4.6	---	---	---	---	---	---
14	6.6	2.4	4.1	7.3	3.4	5.2	---	---	---	---	---	---
15	6.8	3.5	4.6	6.2	2.3	3.8	---	---	---	---	---	---
16	5.3	4.0	4.5	5.5	1.7	3.5	---	---	---	---	---	---
17	5.7	4.0	4.4	4.7	2.0	3.2	---	---	---	---	---	---
18	5.0	3.9	4.5	5.0	2.0	3.4	---	---	---	---	---	---
19	6.2	4.5	5.0	5.2	2.4	3.4	---	---	---	---	---	---
20	5.6	4.2	4.7	6.4	1.8	4.0	---	---	---	---	---	---
21	9.7	3.4	5.7	7.6	3.2	5.0	6.1	3.4	4.9	---	---	---
22	7.8	2.5	4.6	11.0	3.8	6.1	9.6	1.8	4.3	---	---	---
23	7.6	1.8	4.3	13.6	5.2	8.7	5.9	1.7	2.9	---	---	---
24	5.9	2.2	4.0	8.1	4.9	6.6	5.0	1.4	2.8	---	---	---
25	6.8	1.2	3.2	6.8	3.1	4.8	6.0	2.4	3.7	---	---	---
26	9.9	2.4	5.1	5.1	1.5	3.0	5.3	2.3	3.5	---	---	---
27	7.8	2.2	4.8	---	---	---	5.8	2.5	3.9	5.5	4.3	4.6
28	5.9	3.3	4.5	---	---	---	4.8	2.1	3.1	5.8	2.9	4.1
29	---	---	---	---	---	---	5.7	1.8	3.5	5.9	1.9	3.9
30	4.9	2.4	3.3	---	---	---	6.1	1.7	3.4	6.4	2.6	4.3
31	---	---	---	---	---	---	6.3	1.6	3.0	---	---	---
MONTH	9.9	1.2	4.5	13.6	1.5	4.5	9.6	1.4	3.7	6.4	1.9	4.2
YEAR	13.6	1.0	5.2									

08074800 KEEGANS BAYOU AT ROARK ROAD NEAR HOUSTON, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°39'23", long 95°33'43", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Roark Road in southwest Houston.

DRAINAGE AREA.--12.7 mi². Oct. 1, 1976, to Dec. 31, 1977, 12.0 mi²; August 1964 to Sept. 30, 1976, 11.6 mi². Drainage area changes were the result of ditch relocations or extensions.

PERIOD OF RECORD.--August 1964 to September 1981 (daily mean discharges). October 1981 to September 1992 (annual maximum discharge). October 1992 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WDR TX-74-1: Drainage area. WDR-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.

REMARKS.--Records good. Recording rain gage at station. Radio telemeter at station.

AVERAGE DISCHARGE.--17 years, (water years 1965-81) 12.3 ft³/s, (8,910 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s Mar. 4, 1992, elevation, 75.91 ft; no flow for many days.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges above base discharge of 1,000 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 15	1615	1,110	69.43	Jan. 26	1930	1,680	70.74
Oct. 17	1800	1,920	71.21	Feb. 28	0215	1,550	70.47
Oct. 18	0530	4,850	75.87	Mar. 13	0800	1,560	70.49
Dec. 3	0015	1,040	69.23	Apr. 4	1445	2,030	71.43
Jan. 12	2300	2,810	72.48	Apr. 5	1900	1,090	69.36
Jan. 18	0830	1,340	69.98	May 30	0745	1,630	70.64

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 mi². Prior to October 1976, 88.4 mi². Changes due to drainage ditch relocations.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1936 to current year.

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 June 20, 1936, nonrecording gage, and June 20, 1936, to Nov. 25, 1959, water-stage recorder at site 0.8 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. There are no known diversions above station. Low flow is sustained mostly from sewage effluent from Houston suburbs. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1911, 56.0 ft in June 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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 15	1600	10,600	40.07	Jan. 26	2030	9,840	39.42
Oct. 17	2200	24,100	49.37	Feb. 28	0400	8,220	37.91
Oct. 18	0630	27,000	51.02	Mar. 13	0930	11,700	41.00
Jan. 13	0100	10,600	40.09	Apr. 4	1500	12,100	41.32
Jan. 18	0930	9,590	39.19	May 30	0830	12,600	41.67

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	111	100	193	135	383	148	115	1440	190	333	162
2	112	116	377	139	132	263	126	112	247	119	1300	102
3	116	112	2460	340	125	302	122	108	140	111	243	97
4	117	116	232	158	120	251	4590	110	119	310	107	103
5	111	248	137	140	120	170	2040	110	112	422	103	153
6	113	128	117	147	121	150	1170	108	110	216	106	127
7	181	116	111	125	175	1040	323	110	109	116	224	100
8	1100	112	113	119	144	270	198	1750	109	107	151	96
9	214	214	110	117	124	156	148	261	110	104	107	97
10	123	143	121	115	130	128	169	118	112	105	173	99
11	114	112	112	118	145	118	271	119	1200	105	162	98
12	110	112	111	656	123	132	125	122	214	118	364	102
13	108	116	131	3010	122	3220	118	113	111	216	310	123
14	107	115	204	350	123	529	111	113	106	140	354	113
15	2790	116	249	196	126	306	113	112	100	274	149	111
16	918	114	1370	152	138	246	112	113	108	122	109	97
17	5540	111	310	139	153	153	120	111	111	106	103	109
18	16300	122	156	2030	128	133	122	140	318	106	99	224
19	1620	155	125	357	123	124	115	113	215	170	102	125
20	405	115	121	192	126	122	729	112	110	110	102	126
21	243	114	115	151	127	118	236	113	100	104	102	193
22	178	109	111	1160	124	119	134	114	100	108	206	316
23	153	110	108	507	155	119	133	114	100	104	367	120
24	147	109	107	213	279	119	115	119	107	107	267	99
25	140	111	104	163	177	120	112	118	100	104	290	97
26	127	110	104	2850	174	117	110	120	101	104	114	96
27	124	112	109	1920	294	119	112	186	99	105	246	97
28	117	112	1410	382	3100	119	115	138	136	107	210	96
29	118	105	725	229	---	2010	114	943	1260	106	265	95
30	117	102	206	174	---	607	114	4120	1130	182	320	101
31	119	---	312	145	---	210	---	626	---	442	338	---
TOTAL	31895	3698	10178	16687	7063	11973	12265	10781	8434	4840	7426	3674
MEAN	1029	123	328	538	252	386	409	348	281	156	240	122
MAX	16300	248	2460	3010	3100	3220	4590	4120	1440	442	1300	316
MIN	107	102	100	115	120	117	110	108	99	104	99	95
AC-FT	63260	7330	20190	33100	14010	23750	24330	21380	16730	9600	14730	7290

08075000 BRAYS BAYOU AT HOUSTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	147	158	147	181	172	128	142	177	200	125	126	156
MAX	1029	719	626	760	893	577	713	586	941	519	880	857
(WY)	1995	1944	1992	1991	1992	1992	1991	1970	1973	1942	1983	1979
MIN	.58	.68	5.98	1.90	9.72	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	108618		128914			
ANNUAL MEAN	298		353		155	
HIGHEST ANNUAL MEAN					430	1992
LOWEST ANNUAL MEAN					15.1	1940
HIGHEST DAILY MEAN	16300	Oct 18	16300	Oct 18	16300	Oct 18 1994
LOWEST DAILY MEAN	98	Jul 17	95	Sep 29	.10	Oct 11 1937
ANNUAL SEVEN-DAY MINIMUM	104	Sep 18	97	Sep 24	.19	Oct 6 1937
INSTANTANEOUS PEAK FLOW			27000	Oct 18	29000	Jun 15 1976
INSTANTANEOUS PEAK STAGE			51.02	Oct 18	52.13	Jun 15 1976
ANNUAL RUNOFF (AC-FT)	215400		255700		112500	
10 PERCENT EXCEEDS	505		468		273	
50 PERCENT EXCEEDS	125		122		55	
90 PERCENT EXCEEDS	108		104		5.3	

08075000 BRAYS BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical, biochemical, and pesticide analyses: October 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BOD OXYGEN DEMAND, BIOCHEM CARBON. 5 DAY (MG/L)
MAR											
15...	0957	220	565	8.0	19.0	52	37	9.0	97	1.7	0.8
MAY											
23...	1110	123	840	8.3	27.0	10	5.2	11.8	149	7.0	2.9
AUG											
03...	1125	220	415	8.4	29.0	38	14	10.5	137	2.7	2.4

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3
MAR											
15...	5000	1300	150	0	45	9.5	54	2	4.9	--	--
MAY											
23...	2300	210	170	0	53	9.0	99	3	8.3	--	--
AUG											
03...	8300	580	100	14	33	5.1	44	2	5.0	2	105

DATE	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR											
15...	170	26	50	0.30	18	322	22	4	18	2.23	2.23
MAY											
23...	210	48	94	0.60	20	486	7	5	2	3.84	3.84
AUG											
03...	100	31	46	0.30	13	245	34	9	25	2.51	2.51

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR										
15...	0.070	2.30	2.30	0.880	0.52	1.4	0.360	0.330	1.0	11
MAY										
23...	0.960	4.80	4.80	3.20	0.80	4.0	0.710	0.730	2.2	6.0
AUG										
03...	0.090	2.60	2.60	0.480	0.62	1.1	0.350	0.330	1.0	10

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
MAR										
15...	3	90	<0.5	1.0	<5	<3	<10	55	20	8
MAY										
23...	3	89	<0.5	<1.0	<5	<3	<10	31	10	23
AUG										
03...	4	59	<0.5	<1.0	<5	<3	<10	24	<10	12

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	AME-TRYNE TOTAL (UG/L)
MAR										
15...	20	<0.1	<10	<10	1	<1.0	310	<6	6	<0.10
MAY										
23...	23	<0.1	20	10	1	<1.0	400	<6	21	0.10
AUG										
03...	9	<0.1	<10	<10	<1	<1.0	240	<6	8	<0.10

08075000 BRAYS BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ATRA-ZINE WATER UNFLTRD REC (UG/L)	CYAN-AZINE TOTAL (UG/L)	METHO-MYL TOTAL (UG/L)	PROME-TONE TOTAL (UG/L)	PROME-TRYNE TOTAL (UG/L)	PRO-PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SIMA-ZINE TOTAL (UG/L)	SIME-TRYNE TOTAL (UG/L)
MAR 15...	1.3	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.20	<0.10
MAY 23...	0.2	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10
AUG 03...	0.3	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10

08075400 SIMS BAYOU AT HIRAM CLARKE STREET, HOUSTON, TX
(Flood-hydrograph partial-record station)

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 gage Sims Bayou at Houston, and 19.7 mi upstream from mouth.

DRAINAGE AREA.--20.2 mi².

PERIOD OF RECORD.--October 1965 to September 1978 and October 1980 to September 1991 (daily mean discharge). Dec. 6, 1978 to Aug. 31, 1979 (discharge measurements and supplemental peak discharges only). October 1991 to September 1992 (annual maximum). October 1992 to current year (peak discharges greater than base discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level; unadjusted for land-surface subsidence.

REMARKS.--Elevation telemeter at station.

AVERAGE DISCHARGE.--24 years (water years 1966-78, 1981-91), 30.3 ft³/s (21,950 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,510 ft³/s Oct. 18, 1994 (elevation, 54.65 ft.); maximum elevation, 57.12 ft June 15, 1976, occurred prior to 1978 channel rectification; minimum daily discharge, 1.5 ft³/s July 26, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 15	1700	2,720	47.04	Mar. 13	1030	2,130	45.67
Oct. 17	2315	6,900	53.89	Mar. 29	1730	1,560	44.11
Oct. 18	0645	7,510	54.65	Apr. 4	1600	2,680	46.94
Dec. 3	0100	2,810	47.23	May 30	1015	1,780	44.75
Jan. 13	0115	1,440	43.77	June 30	0015	1,130	42.74
Jan. 18	1115	1,460	43.83	July 5	1815	1,340	43.46
Feb. 28	0515	1,750	44.67				

08075500 SIMS BAYOU AT HOUSTON, TX

LOCATION.--Lat 29°40'27", long 95°17'21", Harris County, Hydrologic Unit 12040104, on left bank State Highway 35 in southeast Houston and 7.0 mi upstream from mouth.

DRAINAGE AREA.--63.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year.

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.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Low flow is largely sustained by sewage effluent from Houston suburbs and from industrial wastes. Stage-discharge relationship is affected by seasonal vegetal growth during most years. Rain gage at station. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 15	2030	3,090	22.37	Dec. 3	0700	2,920	21.99
Oct. 18	1600	7,730	29.88	Apr. 4	1900	2,780	21.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	52	35	320	54	399	81	41	552	152	74	54
2	34	53	116	95	52	150	57	38	180	86	275	49
3	33	51	2010	97	50	173	48	35	e100	66	231	48
4	32	54	315	73	45	137	1180	34	e75	183	65	45
5	31	64	87	53	43	97	1010	35	e60	311	44	39
6	31	54	65	53	44	77	666	33	e48	512	36	35
7	46	50	55	49	42	712	219	35	e42	83	121	32
8	276	52	47	45	41	288	109	478	e38	59	79	45
9	106	60	44	41	41	106	78	164	e35	40	47	44
10	47	63	35	44	44	72	69	49	e45	39	40	59
11	35	46	33	43	111	55	75	39	420	39	62	47
12	37	45	33	129	56	52	47	42	135	38	76	28
13	36	48	35	1290	44	1200	41	41	63	e35	127	27
14	37	46	39	240	41	568	39	40	57	e34	148	30
15	987	44	54	87	41	193	38	40	52	e32	123	33
16	1070	47	440	59	44	179	41	35	51	e32	50	50
17	2420	45	211	53	64	97	38	33	51	e33	40	116
18	7090	52	66	919	44	62	42	e33	63	33	39	134
19	2390	56	48	464	46	51	40	e32	91	45	59	72
20	359	55	42	144	41	50	141	e32	54	34	54	429
21	122	52	42	82	43	48	187	e31	52	33	54	363
22	76	46	35	263	43	49	52	e79	54	29	73	102
23	62	43	33	432	42	43	46	e60	50	33	78	66
24	56	41	32	121	158	40	43	e50	49	33	59	47
25	52	39	33	78	85	38	39	e40	50	33	66	40
26	50	39	32	380	49	39	37	e50	48	32	50	47
27	54	36	33	1010	73	42	34	e40	49	31	213	44
28	55	34	247	276	1510	47	41	e50	52	32	102	48
29	53	35	509	114	---	793	39	300	228	33	56	47
30	52	34	122	74	---	809	38	1150	520	35	46	49
31	53	---	300	62	---	180	---	604	---	70	50	---
TOTAL	15813	1436	5228	7190	2991	6846	4615	3763	3364	2280	2637	2269
MEAN	510	47.9	169	232	107	221	154	121	112	73.5	85.1	75.6
MAX	7090	64	2010	1290	1510	1200	1180	1150	552	512	275	429
MIN	31	34	32	41	41	38	34	31	35	29	36	27
AC-FT	31370	2850	10370	14260	5930	13580	9150	7460	6670	4520	5230	4500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

MEAN	83.7	87.2	90.2	116	125	79.5	88.0	108	151	70.4	72.9	90.2
MAX	510	296	331	428	470	284	373	428	629	354	535	452
(WY)	1995	1986	1987	1991	1959	1957	1991	1970	1976	1979	1983	1979
MIN	4.87	3.43	5.03	5.77	9.12	4.56	8.98	9.86	5.41	4.53	6.38	6.53
(WY)	1957	1956	1955	1957	1962	1955	1955	1960	1955	1956	1956	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	46500		58432			
ANNUAL MEAN	127		160		96.5	
HIGHEST ANNUAL MEAN					200	1973
LOWEST ANNUAL MEAN					9.26	1956
HIGHEST DAILY MEAN	7090	Oct 18	7090	Oct 18	8290	Jun 16 1976
LOWEST DAILY MEAN	26	Sep 29	27	Sep 13	.90	Aug 7 1955
ANNUAL SEVEN-DAY MINIMUM	28	Sep 20	32	Jul 22	1.7	Jun 21 1953
INSTANTANEOUS PEAK FLOW			7730	Oct 18	11400	Aug 18 1983
INSTANTANEOUS PEAK STAGE			29.88	Oct 18	33.23	Aug 18 1983
ANNUAL RUNOFF (AC-FT)	92230		115900		69900	
10 PERCENT EXCEEDS	194		313		148	
50 PERCENT EXCEEDS	45		50		38	
90 PERCENT EXCEEDS	33		34		8.2	

e Estimated

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical, biochemical, and pesticide analyses: October 1968 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1993 to current year.
WATER TEMPERATURE: July 1993 to current year.
DISSOLVED OXYGEN: July 1993 to current year.

INSTRUMENTATION.--Since July 1993, a water-quality monitoring system continuously recorded specific conductance, water temperature, and dissolved oxygen at this station. August, 1994 a Hydrolab Reporter was installed.

REMARKS.--Interruption in record was due to malfunctions of the instrumentation. Due to low flow sewage effluent from Houston suburbs, industrial wastes, probe location, and channel morphology, the water quality 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, 2770 microsiemens Sept. 15, 1995; minimum, 80 microsiemens Oct. 18, 1994, Sept. 20, 1995.
WATER TEMPERATURE: Maximum, 34.5°C Jul. 27, 28, 1995; minimum, 10.0°C Jan. 5, 1995.
DISSOLVED OXYGEN: Maximum, 13.5 mg/L Jun. 27, 1995; minimum, 1.0 mg/L Jul. 20, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2770 microsiemens Sept. 16; minimum, 80 microsiemens Oct. 18, Sept. 20.
WATER TEMPERATURE: Maximum, 34.5°C Jul. 27, 28; minimum, 10.0°C Jan. 5.
DISSOLVED OXYGEN: Maximum, 13.5 mg/L Jun. 27; minimum, 1.0 mg/L Jul. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BOD OXYGEN DEMAND, BIOCHEM CARBON. 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
MAR												
15...	0815	206	537	7.5	19.0	100	53	7.3	79	3.7	2.1	19000
MAY												
23...	0823	10	1810	8.0	25.0	9	22	5.3	65	3.9	2.3	7000
AUG												
03...	0955	14	392	8.0	27.0	60	90	4.8	61	3.3	2.2	26000

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAR												
15...	4300	120	0	37	7.7	59	2	3.6	130	66	39	0.30
MAY												
23...	1200	230	70	72	13	290	8	8.8	160	450	180	0.70
AUG												
03...	7200	85	12	27	4.1	47	2	4.1	73	58	32	0.30

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
MAR												
15...	13	309	98	20	78	0.840	0.840	0.080	0.920	0.920	0.680	0.92
MAY												
23...	12	1150	36	4	32	5.64	5.64	0.460	6.10	6.10	0.570	0.63
AUG												
03...	7.7	232	186	26	160	1.44	1.44	0.060	1.50	1.50	0.170	0.43

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAR												
15...	1.6	0.170	0.140	0.43	14	2	89	<0.5	2.0	<5	<3	<10
MAY												
23...	1.2	0.460	0.470	1.4	6.5	2	190	<0.5	1.0	<5	<3	<10
AUG												
03...	0.60	0.260	0.250	0.77	10	4	58	<0.5	<1.0	5	<3	<10

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR 15...	100	<10	<4	32	<0.1	<10	<10	<1	<1.0	220	<6	6
MAY 23...	22	30	13	81	<0.1	20	10	<1	<1.0	470	<6	16
AUG 03...	20	20	<4	4	<0.1	<10	<10	<2	2.0	150	<6	6

DATE	AME-TRYNE TOTAL (UG/L)	ATRA-ZINE WATER UNFLTRD REC (UG/L)	CYAN-AZINE TOTAL (UG/L)	METHO-MYL TOTAL (UG/L)	PROME-TONE TOTAL (UG/L)	PROME-TRYNE TOTAL (UG/L)	PRO-PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SIMA-ZINE TOTAL (UG/L)	SIME-TRYNE TOTAL (UG/L)
MAR 15...	<0.10	0.6	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.20	<0.10
MAY 23...	0.10	0.4	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	0.10	<0.10
AUG 03...	<0.10	0.1	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1560	1470	1510	1380	790	1030	1410	1290	1340	520	450	488
2	1580	1060	1280	1380	1150	1260	1480	340	1330	620	520	568
3	1060	970	996	1600	1200	1300	340	100	186	710	620	656
4	1110	930	966	1620	1210	1390	500	260	389	880	710	795
5	1370	1110	1240	1510	890	1220	770	500	654	1340	750	962
6	1590	1370	1470	1010	830	921	890	770	829	1160	990	1100
7	1750	1340	1570	990	910	940	1120	890	1000	1660	1080	1240
8	1340	350	699	970	810	900	1120	960	1040	1660	1190	1310
9	500	350	419	970	770	886	1110	920	1010	1190	1030	1080
10	680	500	586	1530	820	1090	1100	970	1040	1350	1060	1180
11	1710	680	1190	1390	1040	1160	1170	1040	1110	1290	1090	1180
12	1550	1290	1370	1510	1190	1350	1150	1060	1100	1430	230	1150
13	1650	1390	1450	1490	930	1110	1310	1070	1140	380	220	303
14	1650	1350	1490	930	860	893	1390	1200	1330	510	380	464
15	1590	130	926	1560	860	1090	1310	1090	1240	650	510	571
16	310	130	217	1690	1250	1540	1090	370	666	710	650	677
17	320	100	200	1770	1530	1620	520	440	482	920	710	822
18	130	80	94	1890	1380	1660	650	520	585	980	230	522
19	230	100	157	1850	1300	1450	770	650	695	460	280	377
20	440	230	300	1760	1180	1360	1030	770	964	570	460	537
21	520	430	465	1180	870	927	1190	1030	1110	760	540	693
22	870	500	703	1230	910	1120	1360	1190	1280	770	230	581
23	870	810	829	1290	1130	1200	1340	1220	1280	460	300	371
24	850	740	797	1130	910	979	1350	1250	1290	661	460	570
25	970	750	898	930	900	916	1250	930	1040	844	661	772
26	1300	970	1110	930	910	922	970	910	928	874	322	656
27	1260	1120	1170	920	830	876	1100	950	1010	343	262	297
28	1290	990	1120	880	840	868	1080	520	814	486	343	422
29	1210	970	1100	1020	870	912	550	450	486	619	456	561
30	1150	840	889	1310	1020	1170	720	520	615	713	559	671
31	840	790	823	---	---	---	780	450	655	990	713	890
MONTH	1750	80	904	1890	770	1140	1480	100	924	1660	220	725

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1170	899	1070	496	343	429	1050	540	805	2190	1810	1960
2	1210	1070	1130	741	432	576	1180	1030	1110	1810	1430	1570
3	1330	1050	1240	781	589	724	1350	1110	1210	1620	1420	1510
4	1350	1230	1280	962	698	810	1310	180	689	1660	1510	1590
5	1630	1070	1380	1220	810	1090	380	200	278	1650	1500	1580
6	1620	1240	1410	1250	1030	1160	400	250	310	1800	1370	1660
7	1640	1290	1420	1230	420	646	660	400	584	2030	1220	1610
8	1400	897	1060	678	478	586	980	570	722	2220	510	1080
9	930	879	909	830	629	735	1120	980	1050	630	510	562
10	1300	869	938	979	617	795	1170	1000	1100	860	630	729
11	1300	652	973	1280	979	1120	1100	890	1030	940	820	884
12	1030	716	784	1310	950	1170	1100	930	1010	1290	880	1210
13	1290	802	1030	1310	175	582	1190	940	1090	---	---	---
14	1250	1150	1180	396	213	315	1400	980	1160	---	---	---
15	1560	1100	1280	709	356	559	1480	1130	1360	---	---	---
16	1620	1410	1520	695	507	621	1880	1150	1500	---	---	---
17	1530	1090	1270	910	660	805	1880	1250	1520	---	---	---
18	1420	1110	1310	1420	660	781	1670	1280	1470	---	---	---
19	1590	1240	1410	1440	1010	1250	1490	1390	1430	---	---	---
20	1720	1100	1430	1330	1030	1220	1730	680	1270	---	---	---
21	1750	1390	1550	1240	846	946	1150	440	884	---	---	---
22	1580	1290	1430	1570	914	1290	1410	760	1190	---	---	---
23	1820	1350	1470	1280	939	1140	1510	1140	1320	---	---	---
24	1900	650	1230	1910	1130	1660	1600	1000	1220	---	---	---
25	865	465	638	1460	1200	1270	1950	1090	1420	---	---	---
26	1320	865	1100	1540	1320	1450	1440	1070	1200	---	---	---
27	1430	477	1290	1430	1250	1320	1750	1120	1380	---	---	---
28	913	223	304	1400	807	1230	1590	1110	1420	---	---	---
29	---	---	---	1060	190	584	1910	1490	1650	---	---	---
30	---	---	---	430	232	317	2180	1740	2000	---	---	---
31	---	---	---	550	430	489	---	---	---	---	---	---
MONTH	1900	223	1180	1910	175	893	2180	180	1150	2220	510	1330

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	700	540	630	1430	980	1140	1480	1170	1360
2	---	---	---	670	610	631	1030	620	689	1400	1170	1310
3	---	---	---	720	650	678	---	---	---	1650	940	1190
4	---	---	---	740	560	621	---	---	---	950	890	922
5	---	---	---	600	450	556	---	---	---	920	810	885
6	---	---	---	500	440	469	---	---	---	940	800	851
7	---	---	---	790	500	619	---	---	---	1820	510	733
8	---	---	---	870	770	796	---	---	---	1970	1570	1780
9	1560	1300	1390	1030	870	984	---	---	---	1570	1320	1430
10	1660	1260	1420	1070	1020	1060	---	---	---	1730	1290	1450
11	1650	300	672	---	---	---	1240	840	1170	1730	1220	1470
12	860	360	713	---	---	---	1130	790	945	---	---	---
13	940	770	899	---	---	---	1400	730	1110	---	---	---
14	880	750	789	---	---	---	1430	420	1040	---	---	---
15	1540	880	1290	---	---	---	880	440	764	1650	1500	1630
16	1560	1210	1420	---	---	---	1180	880	1010	2770	1280	1880
17	1410	1210	1320	1540	440	962	1210	900	1040	2090	130	1350
18	1440	1310	1370	2280	590	1570	1470	970	1320	1150	400	812
19	1470	1010	1190	1590	780	1340	1710	1350	1520	1440	890	1110
20	1160	1030	1070	1660	1240	1430	1710	1200	1360	990	80	669
21	1310	1150	1230	1670	1270	1460	1480	1090	1330	730	210	526
22	1440	1140	1320	1060	450	706	1190	700	996	810	730	768
23	1440	1170	1270	1860	480	1350	880	660	806	1190	730	837
24	1370	1220	1260	1700	1100	1380	930	810	870	1470	860	1190
25	1590	1230	1380	1730	1110	1490	950	910	935	890	810	844
26	1570	1490	1520	1480	1200	1330	990	850	927	1000	580	886
27	1570	1440	1490	1360	1160	1270	930	110	698	1120	900	994
28	1470	1350	1420	1050	860	926	800	280	522	1110	920	981
29	1460	740	1110	910	820	873	1280	800	942	1040	900	953
30	740	500	572	970	910	946	1360	970	1130	1020	940	968
31	---	---	---	2270	930	1540	1590	1090	1300	---	---	---
MONTH	1660	300	1190	2280	440	1020	1710	110	1020	2770	80	1100
YEAR	2770	80	1030									

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.0	24.5	25.5	22.5	20.5	21.5	16.5	15.5	16.0	15.0	13.5	14.5
2	27.5	25.0	26.5	22.5	20.0	21.5	17.5	15.5	16.5	13.5	11.0	11.5
3	28.0	26.0	27.0	25.0	22.5	24.0	20.0	17.0	18.0	12.0	11.0	11.5
4	28.5	26.0	27.5	25.5	24.5	25.0	20.0	19.5	19.5	12.0	11.0	11.5
5	27.5	26.0	27.0	25.5	24.0	25.0	20.5	19.5	20.0	11.0	10.0	10.0
6	27.5	25.5	26.5	24.0	22.0	23.0	21.5	20.5	20.5	14.5	10.5	12.0
7	28.0	26.0	27.0	23.0	21.0	22.0	23.0	21.5	22.0	14.5	14.0	14.5
8	27.5	24.0	25.5	24.5	22.5	23.5	24.0	23.0	23.5	15.5	14.0	14.0
9	24.0	22.0	22.5	25.5	24.5	25.0	24.0	20.5	22.5	18.0	15.5	16.5
10	22.5	21.0	21.5	24.5	20.5	22.5	20.5	16.0	18.5	19.5	18.0	18.5
11	22.5	21.0	21.5	20.5	19.0	20.0	16.0	13.0	14.0	21.0	19.5	20.5
12	22.5	20.5	21.5	20.0	18.5	19.5	14.0	12.0	13.0	21.0	16.0	20.5
13	22.0	21.0	21.5	21.5	19.5	20.5	16.0	14.0	15.0	17.0	16.0	16.5
14	22.5	21.0	21.5	23.0	21.5	22.0	17.5	16.0	17.0	17.0	14.5	15.5
15	22.5	22.0	22.0	23.0	22.0	22.5	19.5	17.5	18.5	15.0	13.5	14.5
16	25.0	22.0	23.5	22.5	21.0	21.5	20.5	19.5	20.5	16.5	14.5	15.0
17	25.0	22.5	24.0	21.0	20.0	20.5	20.0	18.0	18.5	18.0	16.5	17.5
18	22.5	21.5	22.0	21.5	20.5	21.0	18.0	16.5	17.0	19.5	17.5	18.5
19	24.0	21.5	22.0	22.5	21.5	22.0	17.0	16.0	16.0	17.5	14.0	15.0
20	26.5	24.0	25.0	22.5	22.0	22.5	18.0	16.0	17.0	15.0	14.5	14.5
21	26.5	25.0	26.0	22.0	20.5	21.0	19.0	18.0	18.5	15.5	13.5	14.5
22	27.0	25.5	26.5	20.5	19.5	20.0	18.5	16.0	17.0	17.0	15.5	16.5
23	27.0	26.5	27.0	20.0	17.5	18.5	16.0	15.0	15.5	16.5	13.5	14.5
24	27.0	26.0	26.0	17.5	16.5	16.5	16.0	15.0	15.5	14.0	12.5	13.0
25	26.0	24.5	25.5	19.5	16.5	18.0	15.5	14.0	14.5	16.0	13.5	14.5
26	24.5	21.5	22.5	22.5	19.5	21.0	15.0	13.5	14.5	18.0	16.0	17.0
27	21.5	19.5	20.5	24.0	22.5	23.0	15.5	14.0	14.5	20.0	17.5	18.5
28	20.5	19.0	19.5	23.5	20.5	21.5	15.0	14.0	15.0	20.0	18.0	18.5
29	22.0	20.0	21.0	20.5	18.5	19.0	14.5	13.5	13.5	18.0	14.5	16.0
30	23.0	21.5	22.5	18.5	16.5	17.5	15.0	13.5	14.5	14.5	13.0	13.5
31	23.0	22.0	22.5	---	---	---	15.0	14.5	15.0	15.0	13.0	14.0
MONTH	28.5	19.0	24.0	25.5	16.5	21.5	24.0	12.0	17.0	21.0	10.0	15.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	16.5	14.5	15.5	19.0	16.5	17.0	20.0	18.0	19.0	27.0	25.0	26.0
2	17.5	16.0	17.0	16.5	14.5	15.5	21.0	19.5	20.0	25.5	23.0	24.5
3	19.5	17.5	18.5	14.5	13.5	14.0	21.0	20.0	20.5	25.5	23.0	24.5
4	19.0	16.0	17.5	15.5	13.5	14.0	20.5	18.0	19.5	27.0	24.5	25.5
5	17.0	15.5	16.0	18.5	15.5	17.0	18.5	18.0	18.0	28.0	26.0	27.0
6	17.5	15.5	16.5	22.0	18.5	20.0	20.0	17.0	18.0	28.0	26.5	27.5
7	18.0	16.0	17.0	22.5	14.5	18.5	22.5	19.5	20.5	28.0	26.5	27.0
8	16.0	15.0	15.5	14.5	11.5	13.0	24.5	21.5	23.0	26.5	19.5	22.5
9	15.5	14.5	15.0	15.0	12.5	14.0	25.5	23.0	24.5	26.5	22.0	23.5
10	18.5	15.5	17.0	17.5	15.0	15.5	25.5	23.5	24.5	28.5	26.5	27.0
11	19.5	18.5	19.0	18.0	17.0	17.5	23.5	21.0	22.0	28.5	26.5	27.5
12	19.0	14.0	16.0	20.0	18.0	19.0	22.5	20.5	21.5	26.5	25.0	25.0
13	14.0	13.0	13.5	20.0	16.5	18.5	24.5	21.5	23.0	---	---	---
14	15.0	13.0	13.5	20.0	17.5	18.5	25.0	22.0	23.5	---	---	---
15	18.5	15.0	16.5	20.0	19.0	19.5	25.0	23.0	23.5	---	---	---
16	19.5	18.5	19.0	19.5	18.0	18.5	25.0	22.5	23.5	31.5	29.0	30.0
17	19.0	15.5	16.5	21.0	18.0	19.5	26.5	24.0	25.5	30.5	28.0	29.0
18	16.5	14.5	15.5	21.5	20.0	21.0	26.5	25.0	26.0	29.0	25.5	27.5
19	18.5	16.5	17.5	22.5	21.5	22.0	27.0	25.0	26.0	25.5	24.0	24.5
20	19.0	17.0	18.0	23.5	21.5	22.5	26.5	22.0	25.0	---	---	---
21	19.5	17.5	18.5	24.0	22.5	23.5	24.0	20.0	21.5	---	---	---
22	19.0	17.5	18.5	25.5	23.0	24.0	25.5	24.0	25.0	---	---	---
23	20.5	18.5	19.5	26.0	24.0	25.0	25.0	22.0	23.5	---	---	---
24	20.5	19.5	20.0	25.5	23.5	24.5	22.0	19.0	21.0	---	---	---
25	19.5	18.0	18.5	24.5	22.5	23.5	23.0	20.0	21.5	---	---	---
26	19.0	18.0	18.5	25.0	23.5	24.5	24.0	21.0	23.0	---	---	---
27	20.5	19.0	19.5	24.5	23.0	23.5	24.5	22.5	23.5	---	---	---
28	20.0	18.0	18.5	23.0	18.0	20.5	25.5	23.0	24.5	---	---	---
29	---	---	---	18.0	14.0	16.0	26.0	23.5	25.0	---	---	---
30	---	---	---	17.5	14.0	15.0	27.5	24.0	26.0	---	---	---
31	---	---	---	18.5	17.5	18.0	---	---	---	---	---	---
MONTH	20.5	13.0	17.0	26.0	11.5	19.0	27.5	17.0	22.5	31.5	19.5	26.0

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.0	26.0	27.5	29.5	28.5	29.0	30.5	30.0	30.0
2	---	---	---	30.0	28.0	29.0	29.0	26.5	28.0	31.5	30.0	30.5
3	---	---	---	30.5	28.5	29.5	30.0	27.0	28.5	32.0	30.5	31.0
4	---	---	---	30.0	26.5	28.0	31.5	29.5	30.5	32.0	30.5	31.0
5	---	---	---	30.0	27.0	28.5	32.5	31.0	32.0	32.0	28.5	30.5
6	---	---	---	30.0	26.5	27.5	33.0	30.0	31.5	30.5	29.5	30.0
7	---	---	---	31.5	28.5	30.0	32.0	29.0	30.5	30.0	28.5	29.5
8	---	---	---	32.0	30.0	31.0	31.5	29.0	30.5	30.5	28.0	29.5
9	32.5	31.5	32.0	33.0	29.5	31.0	32.5	30.0	31.0	33.0	28.5	30.0
10	32.5	29.5	31.0	33.5	28.5	31.0	32.0	29.5	31.0	31.5	28.5	29.5
11	31.5	23.5	26.0	33.0	30.0	31.5	32.0	30.5	31.0	31.0	29.0	29.5
12	27.0	24.5	26.0	33.5	29.5	32.0	31.0	30.0	30.5	31.0	27.0	29.0
13	28.5	26.0	27.0	32.5	31.0	31.0	31.0	29.5	30.0	30.5	27.0	29.0
14	29.0	26.0	27.5	---	---	---	30.0	28.0	29.0	31.5	28.0	29.5
15	29.5	26.0	28.0	---	---	---	30.5	28.0	29.5	31.0	29.0	30.0
16	30.0	26.0	28.0	---	---	---	32.0	30.0	31.0	31.5	29.5	30.0
17	31.0	27.0	29.0	33.0	29.5	31.0	33.0	30.5	31.5	31.5	27.0	30.0
18	29.5	27.0	28.5	33.5	30.0	32.0	32.0	30.0	31.0	30.5	27.5	29.5
19	30.0	27.5	28.5	33.0	29.5	31.5	30.5	28.5	29.5	31.0	29.5	30.0
20	30.5	27.5	29.0	33.5	30.0	32.0	32.0	30.5	31.0	31.5	25.5	29.0
21	31.0	27.5	29.0	33.5	30.0	32.0	33.0	30.5	31.5	27.5	26.0	27.0
22	31.5	28.0	30.0	33.5	30.0	31.5	31.5	30.0	31.0	27.5	22.5	25.0
23	32.5	28.5	30.5	33.0	30.0	31.5	31.5	30.0	30.5	24.0	21.5	22.5
24	31.5	28.5	30.5	33.0	29.5	31.5	31.0	30.0	30.5	26.0	23.5	24.5
25	32.0	28.0	30.0	33.5	30.0	32.0	31.5	30.0	30.5	27.5	25.0	26.0
26	32.0	28.0	30.5	34.0	30.0	32.0	32.0	30.0	31.0	28.5	25.0	27.0
27	32.0	28.0	30.5	34.5	30.5	32.5	32.0	26.0	30.0	29.0	26.5	28.0
28	32.0	28.5	30.5	34.5	30.5	32.5	31.0	28.0	29.5	29.0	27.5	28.0
29	29.5	25.5	27.0	33.5	30.0	31.0	32.0	30.0	31.0	29.0	27.0	28.0
30	26.5	24.0	25.0	30.0	27.0	28.0	31.5	30.0	30.5	29.0	27.5	28.5
31	---	---	---	29.5	26.5	28.0	31.5	30.0	30.5	---	---	---
MONTH	32.5	23.5	29.0	34.5	26.0	30.5	33.0	26.0	30.5	33.0	21.5	28.5
YEAR	34.5	10.0	23.0									

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.7	3.5	4.0	5.5	5.0	5.2	4.3	3.3	3.8	9.4	8.9	9.0
2	4.2	2.0	2.9	6.0	5.1	5.6	8.0	3.6	4.5	9.7	9.0	9.4
3	4.6	2.0	3.5	5.3	4.3	5.0	8.0	6.9	7.4	9.5	8.7	9.0
4	5.6	3.3	4.4	5.4	4.4	5.0	7.2	6.8	7.0	9.7	8.5	8.8
5	7.4	5.1	6.2	4.9	3.3	4.1	7.9	6.6	7.2	9.2	8.7	8.9
6	8.1	6.0	7.0	5.7	3.1	4.7	6.6	4.5	6.1	8.7	7.7	8.4
7	7.9	7.2	7.9	6.5	5.2	5.7	5.7	4.7	5.4	7.7	6.9	7.1
8	---	---	---	6.8	5.3	5.8	5.6	4.5	5.0	7.6	7.0	7.4
9	---	---	---	6.0	5.1	5.6	5.6	4.5	5.0	7.6	6.9	7.2
10	---	---	---	5.7	3.9	5.0	6.2	5.2	5.6	7.1	6.1	6.7
11	---	---	---	6.7	5.4	6.0	7.6	6.2	7.1	6.1	4.9	5.7
12	---	---	---	7.9	6.1	7.1	8.2	7.6	8.0	9.7	4.8	5.6
13	---	---	---	7.2	5.5	6.7	8.0	6.4	7.2	9.7	7.7	8.1
14	---	---	---	6.1	4.4	5.4	6.4	3.6	5.9	8.4	7.8	8.2
15	---	---	---	4.5	3.2	3.9	6.5	5.1	6.1	8.3	7.8	8.2
16	---	---	---	3.7	2.8	3.1	8.8	5.4	6.8	7.9	7.6	7.7
17	---	---	---	4.5	3.7	4.2	7.5	7.2	7.4	7.6	6.7	7.0
18	---	---	---	4.4	3.9	4.2	7.7	7.4	7.6	8.5	6.1	7.2
19	---	---	---	4.2	3.1	3.7	7.8	7.2	7.4	8.6	7.6	8.3
20	---	---	---	4.0	3.4	3.6	7.7	6.3	7.0	8.4	8.0	8.1
21	---	---	---	3.9	3.5	3.7	6.7	6.1	6.4	8.3	7.7	8.1
22	---	---	---	4.2	3.6	3.9	6.6	6.3	6.4	9.1	7.1	7.8
23	---	---	---	4.5	3.8	4.2	7.3	6.6	7.1	9.1	8.3	8.7
24	---	---	---	5.2	4.1	4.6	7.7	6.8	7.2	8.7	8.1	8.4
25	---	---	---	5.3	3.9	4.6	7.4	7.0	7.3	8.2	7.0	7.8
26	---	---	---	4.3	3.6	3.9	8.0	7.4	7.8	8.6	6.9	7.6
27	---	---	---	3.8	1.9	2.6	8.2	7.6	7.9	8.3	7.4	7.9
28	6.0	5.5	5.7	2.8	1.7	2.0	9.9	7.9	8.8	7.6	7.4	7.5
29	5.9	4.6	5.2	3.9	2.8	3.5	10.0	9.5	9.8	8.0	7.5	7.8
30	5.6	4.9	5.2	3.9	2.6	3.2	9.5	8.4	9.0	8.7	8.0	8.5
31	5.9	4.6	5.3	---	---	---	9.9	7.9	8.8	8.8	8.3	8.5
MONTH	8.1	2.0	5.2	7.9	1.7	4.5	10.0	3.3	6.9	9.7	4.8	7.9

08075500 SIMS BAYOU AT HOUSTON, TX--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.0	5.7	6.6	4.8	3.8	4.2	---	---	---
2	---	---	---	5.9	4.7	5.3	4.7	3.7	4.1	---	---	---
3	---	---	---	5.8	4.5	5.1	4.6	4.1	4.3	---	---	---
4	---	---	---	7.3	5.1	5.9	4.4	3.1	3.8	---	---	---
5	---	---	---	7.9	4.5	5.4	4.4	3.1	3.7	---	---	---
6	---	---	---	6.1	3.4	4.9	7.2	3.8	5.3	8.9	5.9	7.1
7	---	---	---	3.4	1.7	2.9	10.2	7.1	8.1	7.9	5.5	6.6
8	---	---	---	3.6	2.4	2.9	8.2	4.5	6.7	7.5	5.7	6.6
9	9.8	7.1	8.3	5.0	3.0	3.8	10.6	4.5	7.8	7.8	3.7	5.8
10	9.9	5.2	7.3	8.1	3.7	5.6	10.5	5.9	8.5	5.7	3.0	4.1
11	8.6	4.8	6.3	10.0	5.4	7.5	8.4	2.9	5.0	4.7	3.1	4.0
12	4.9	3.9	4.3	9.6	5.6	7.4	5.7	3.5	4.5	5.9	3.6	4.5
13	6.2	4.5	5.3	6.9	4.9	5.2	5.1	3.3	3.8	7.0	4.4	5.3
14	6.6	4.5	5.8	---	---	---	4.9	3.8	4.1	6.7	4.8	5.6
15	7.4	4.5	6.1	---	---	---	4.4	2.5	3.3	7.8	5.1	6.3
16	8.3	5.8	6.9	---	---	---	4.5	3.4	3.8	6.1	3.2	5.0
17	7.1	4.3	5.5	3.1	2.7	2.9	5.4	3.3	4.4	7.3	5.6	6.3
18	5.3	4.2	4.7	2.8	1.2	1.7	5.6	4.9	5.3	6.3	3.6	5.0
19	5.0	2.4	3.6	4.2	1.1	2.1	6.1	4.3	5.2	7.5	3.8	5.9
20	4.6	3.3	3.9	3.7	1.0	2.1	5.6	4.2	4.9	7.4	5.4	6.3
21	6.0	3.4	4.6	5.7	1.4	3.2	5.9	4.2	5.0	6.8	3.7	4.6
22	10.9	5.8	8.1	10.7	4.0	6.7	5.2	3.8	4.7	5.5	4.0	4.7
23	11.2	8.1	9.5	8.9	4.2	5.9	4.8	3.0	3.8	7.9	5.5	6.7
24	11.4	7.5	9.5	6.0	3.5	4.5	6.3	3.3	4.4	---	---	---
25	12.3	4.6	9.8	6.6	3.7	5.1	4.6	3.2	3.8	---	---	---
26	13.3	8.4	10.6	8.2	3.8	6.0	4.0	2.8	3.4	---	---	---
27	13.5	8.1	10.7	6.2	4.4	5.2	8.6	2.7	4.4	---	---	---
28	11.7	7.2	9.6	6.4	4.1	5.2	5.3	3.0	3.6	---	---	---
29	8.1	5.0	6.5	6.9	4.8	5.7	5.3	3.7	4.3	---	---	---
30	9.4	7.5	8.5	6.3	4.8	5.4	6.5	4.0	5.5	---	---	---
31	---	---	---	5.0	3.5	4.3	---	---	---	---	---	---
MONTH	13.5	2.4	7.1	10.7	1.0	4.8	10.6	2.5	4.8	8.9	3.0	5.6
YEAR	13.5	1.0	6.0									

08075650 BERRY BAYOU AT FOREST OAKS STREET, HOUSTON, TX

LOCATION.--Lat 29°40'35", long 95°14'37", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of bridge at Forest Oaks Street in southeast Houston, 0.8 mi upstream from mouth of Berry Creek, and 1.7 mi upstream from Sims Bayou.

DRAINAGE AREA.--10.7 mi², revised.

PERIOD OF RECORD.--April 1964 to September 1966, daily mean discharge. October 1967 to September 1982, daily mean discharges greater than base discharge or flood-hydrograph partial-record station. October 1982 to current year, stages only.
Water-quality records.--Chemical, biochemical, and pesticide analyses: October 1968 to September 1981. Water Temperature: April 1964 to September 1981.

REVISED RECORDS.--WDR TX-80-2: 1979(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2.72 ft below sea level, 1973 adjustment. June 1964 to January 1965, auxiliary nonrecording gage 0.8 mi downstream at same datum. January 1965 to September 1982, auxiliary water-stage recorder 0.8 mi downstream at same datum.

REMARKS.--Records poor. Low stages are affected by tides. Rises are occasionally affected by backwater from Sims Bayou. The reports "Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan area", for water years 1965-82, contain additional storm runoff data for this station. Rain gage at station. Radio telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s June 9, 1975; maximum gage height, 23.85 ft Sept. 20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.97 ft Oct. 17 at 1345 hours; minimum, 3.23 ft Mar.24.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.50	4.27	6.56	4.24	---	---	---	---	---	---	---	---
2	6.22	4.80	6.64	3.47	---	---	---	---	---	---	---	---
3	5.89	4.44	---	---	16.47	---	---	---	---	---	---	---
4	5.81	4.45	---	---	---	---	---	---	---	---	---	---
5	5.82	4.04	---	---	---	---	---	---	---	---	---	---
6	6.41	4.48	---	---	---	---	---	---	---	---	---	---
7	6.57	4.76	---	---	---	---	---	---	---	---	---	---
8	6.59	4.10	---	---	---	---	---	---	---	---	4.30	3.89
9	4.87	3.58	---	---	---	---	---	---	---	---	4.92	3.77
10	4.69	3.52	---	---	---	---	---	---	---	---	5.57	3.87
11	4.95	3.52	---	---	---	---	---	---	---	---	5.56	4.01
12	5.03	3.54	---	---	---	---	---	---	---	---	---	---
13	4.99	3.59	---	---	---	---	---	---	---	---	---	---
14	5.27	3.77	---	---	---	---	---	---	---	---	---	---
15	11.45	4.52	---	---	---	---	---	---	---	---	---	---
16	7.62	5.84	---	---	---	---	---	---	---	---	---	---
17	17.97	6.26	---	---	---	---	---	---	---	---	---	---
18	16.57	8.39	---	---	---	---	---	---	---	---	5.26	3.97
19	8.39	5.31	---	---	---	---	---	---	---	---	5.12	3.78
20	5.55	4.61	---	---	---	---	---	---	---	---	5.55	3.84
21	5.18	3.56	---	---	---	---	---	---	---	---	5.40	3.79
22	4.98	3.50	---	---	---	---	---	---	---	---	5.45	3.68
23	5.32	3.84	---	---	---	---	---	---	---	---	5.10	3.42
24	5.92	3.80	---	---	---	---	---	---	---	---	5.37	3.23
25	5.42	3.43	---	---	---	---	---	---	---	---	5.94	4.20
26	5.40	3.96	---	---	---	---	---	---	---	---	6.02	4.43
27	5.64	3.84	---	---	---	---	---	---	---	---	5.43	3.93
28	6.12	3.97	---	---	---	---	---	---	---	---	5.79	4.23
29	5.71	4.11	---	---	---	---	---	---	---	---	10.80	4.70
30	5.92	4.36	---	---	---	---	---	---	---	---	6.19	4.80
31	5.70	4.36	---	---	---	---	---	---	---	---	6.07	4.59
MONTH	17.97	3.43	---	---	---	---	---	---	---	---	---	---

08075650 BERRY BAYOU AT FOREST OAKS STREET, HOUSTON, TX--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	5.98	4.24	5.91	4.17	9.31	4.41	4.89	3.73	6.80	5.11	---	---
2	5.86	4.22	5.67	3.88	5.84	4.15	4.96	3.64	7.08	4.92	---	---
3	6.18	4.39	6.54	4.40	5.98	4.13	5.12	3.63	5.79	4.06	---	---
4	12.91	4.61	6.08	4.53	5.86	4.25	6.35	4.54	5.16	3.49	---	---
5	7.41	5.92	5.67	3.79	5.77	4.15	9.21	4.80	5.19	3.65	---	---
6	6.46	5.30	6.19	4.19	5.69	4.42	5.51	3.87	6.04	3.91	---	---
7	6.53	4.89	6.59	4.77	5.93	4.52	5.00	3.70	6.18	4.10	6.08	4.46
8	6.51	4.74	7.75	5.18	5.80	4.52	4.86	3.65	5.73	4.16	5.91	4.45
9	6.55	4.83	5.83	4.40	6.14	4.54	5.06	3.63	6.05	4.02	5.76	4.39
10	7.59	5.44	5.60	4.16	6.06	4.14	---	---	5.90	4.18	5.78	4.39
11	6.80	4.29	5.33	4.09	6.39	3.82	---	---	6.35	4.29	5.69	4.44
12	5.83	4.28	5.92	4.13	4.47	3.80	---	---	5.92	4.50	5.70	4.17
13	5.32	4.15	6.43	4.50	5.26	3.70	---	---	5.83	4.29	5.70	4.06
14	5.95	4.23	6.56	4.68	5.22	3.67	---	---	---	---	5.53	4.28
15	6.17	4.51	5.89	3.83	5.32	3.61	---	---	---	---	5.74	4.43
16	6.05	4.28	6.15	3.95	5.61	3.74	---	---	---	---	5.90	4.37
17	6.66	4.23	6.85	4.53	6.05	4.03	---	---	---	---	5.76	4.60
18	6.47	4.18	6.68	4.10	6.83	5.01	---	---	---	---	5.68	4.34
19	6.52	4.21	4.87	3.85	5.51	4.07	---	---	---	---	5.96	4.26
20	7.15	4.69	5.44	3.71	4.78	3.69	---	---	---	---	7.29	4.25
21	6.50	4.53	5.76	4.28	4.66	3.65	---	---	---	---	6.89	4.42
22	6.34	4.47	5.76	4.53	4.48	3.63	---	---	---	---	4.87	4.05
23	5.45	4.00	6.04	4.68	4.77	3.61	---	---	---	---	5.73	4.09
24	5.32	4.05	5.91	4.49	5.06	3.58	---	---	---	---	6.15	4.53
25	6.04	4.69	5.69	4.10	5.00	3.59	---	---	---	---	6.37	4.93
26	6.62	5.08	5.79	4.03	6.98	3.55	---	---	---	---	6.21	4.63
27	5.96	4.76	6.45	4.41	6.98	3.61	---	---	---	---	6.14	4.44
28	5.95	4.25	6.03	4.28	5.51	3.60	---	---	---	---	5.96	4.30
29	6.56	4.74	11.74	3.99	6.32	3.94	5.29	3.75	---	---	6.27	4.91
30	6.01	4.27	13.87	6.59	5.98	4.06	6.57	4.63	---	---	6.80	5.16
31	---	---	6.48	4.81	---	---	7.05	5.65	---	---	---	---
MONTH	12.91	4.00	13.87	3.71	9.31	3.55	---	---	---	---	---	---

08075730 VINCE BAYOU AT PASADENA, TX

LOCATION.--Lat 29°41'40", long 95°12'58", Harris County, Hydrologic Unit 12040104, on right bank of concrete lined channel at end of West Ellaine Avenue in Pasadena and 2.4 mi upstream from mouth.

DRAINAGE AREA.--8.26 mi², revised.

PERIOD OF RECORDS.--October 1971 to current year.
Water-quality records.--Chemical, biochemical, and pesticide analyses: May 1971 to September 1973 and October 1976 to July 1979.

GAGE.--Water-stage recorder. Datum of gage is 2.54 ft below sea level, 1973 adjustment; unadjusted for land-surface subsidence (levels by the U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Gage-height telemeter at station.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	1345	2,710	16.00	Dec. 03	0015	2,250	15.26
Oct. 18	0645	2,520	15.70	Apr. 04	1330	1,660	14.22
Oct. 18	1645	1,740	14.35	May 30	0800	2,000	14.81

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.1	.56	8.2	2.2	7.6	4.8	e2.9	202	6.3	20	3.3
2	4.1	6.9	93	3.5	1.5	6.5	1.9	e2.0	6.4	2.9	5.0	1.8
3	3.9	5.4	452	10	2.1	7.6	2.3	e2.9	3.1	2.5	1.5	2.1
4	3.9	2.3	8.7	4.0	2.9	6.5	381	e2.0	3.3	26	2.5	2.4
5	4.4	3.0	3.7	2.5	1.3	3.0	52	e2.9	3.5	95	1.8	2.4
6	4.7	2.7	4.2	4.8	1.2	2.6	19	e2.0	3.0	23	1.6	2.3
7	5.3	1.2	6.5	2.4	2.1	102	3.7	e2.9	3.4	3.5	4.5	2.3
8	46	5.2	6.2	2.2	2.5	6.7	2.1	e68	6.2	8.5	2.5	1.3
9	5.9	7.5	3.1	2.1	3.1	3.3	1.3	2.7	2.5	4.7	1.2	1.4
10	3.1	2.4	3.0	2.6	2.7	2.3	2.6	1.3	6.5	3.2	.93	1.4
11	2.9	2.6	1.5	1.9	15	1.5	6.5	4.4	65	2.9	.93	1.5
12	2.5	1.0	1.4	66	2.0	1.5	2.5	2.0	3.0	3.2	1.2	1.4
13	3.5	1.1	1.5	98	2.0	246	1.9	1.7	5.0	7.2	25	1.3
14	2.6	.50	3.0	5.6	1.8	14	2.4	1.6	2.5	7.9	18	1.6
15	111	.51	3.5	2.7	1.2	3.2	2.8	1.8	1.5	40	3.1	1.7
16	66	1.2	50	2.1	3.0	2.2	3.8	1.6	1.5	5.1	1.7	2.9
17	1270	1.5	4.2	3.0	14	1.7	4.3	2.4	3.6	5.6	1.6	23
18	902	1.7	2.2	81	2.4	1.4	4.9	43	2.2	24	5.6	6.4
19	150	1.4	2.3	8.0	1.5	1.3	5.2	4.2	1.9	13	3.7	.91
20	62	.68	2.7	3.8	1.7	1.3	17	1.1	4.0	2.9	2.4	42
21	4.3	.57	2.6	2.3	2.1	1.8	4.9	1.1	2.4	1.6	3.6	34
22	3.9	1.5	1.8	127	1.6	1.9	3.9	1.1	1.5	.90	23	10
23	5.0	.79	2.2	20	2.5	1.9	6.3	1.0	1.1	.87	6.6	1.8
24	3.3	1.3	2.2	3.9	40	2.5	e4.9	2.9	1.0	.75	1.5	1.6
25	3.0	.93	2.0	5.0	3.3	2.7	e2.9	1.4	1.4	.61	1.4	1.1
26	5.6	.55	2.1	109	1.7	2.1	e2.0	1.8	3.7	.41	1.4	1.0
27	4.6	.49	2.3	120	32	5.1	e2.9	7.3	1.6	.29	1.8	.91
28	5.9	.75	78	9.5	173	18	e2.0	2.3	5.4	.38	1.1	.94
29	4.8	2.0	28	3.2	---	278	e2.9	226	35	.37	.97	.93
30	5.1	.71	6.1	2.1	---	37	e2.0	478	18	4.5	1.2	3.3
31	5.8	---	47	5.1	---	7.4	---	41	---	2.2	3.6	---
TOTAL	2710.0	65.48	827.56	721.5	322.4	780.6	556.7	917.3	401.2	300.28	150.93	158.99
MEAN	87.4	2.18	26.7	23.3	11.5	25.2	18.6	29.6	13.4	9.69	4.87	5.30
MAX	1270	7.5	452	127	173	278	381	478	202	95	25	42
MIN	2.5	.49	.56	1.9	1.2	1.3	1.3	1.0	1.0	.29	.93	.91
AC-FT	5380	130	1640	1430	639	1550	1100	1820	796	596	299	315

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

MEAN	15.1	16.1	13.3	19.4	13.3	11.7	12.6	18.5	27.9	15.2	13.4	17.5
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	3.17	1.67	1.47	.38	.90	1.81	1.66	1.31	1.04
(WY)	1979	1981	1989	1986	1988	1981	1983	1988	1990	1982	1980	1982

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1972 - 1995	
ANNUAL TOTAL	5605.57		7912.94			
ANNUAL MEAN	15.4		21.7		16.2	
HIGHEST ANNUAL MEAN					32.1	1979
LOWEST ANNUAL MEAN					4.97	1988
HIGHEST DAILY MEAN	1270	Oct 17	1270	Oct 17	1610	Jun 26 1989
LOWEST DAILY MEAN	.13	Jul 14	.29	Jul 27	.00	Aug 5 1972
ANNUAL SEVEN-DAY MINIMUM	.25	Jul 13	.53	Jul 23	.04	Jul 27 1986
INSTANTANEOUS PEAK FLOW			2710	Oct 7	4720	May 3 1981
INSTANTANEOUS PEAK STAGE			16.00	Oct 17	18.30	May 3 1981
ANNUAL RUNOFF (AC-FT)	11120		15700		11710	
10 PERCENT EXCEEDS	18		36		27	
50 PERCENT EXCEEDS	2.4		2.9		2.2	
90 PERCENT EXCEEDS	.69		1.1		.47	

e Estimated

08075770 HUNTING BAYOU AT INTERSTATE HIGHWAY 610, HOUSTON, TX

LOCATION.--Lat 29°47'35", long 95°16'04", Harris County, Hydrologic Unit 12040104, on left bank at downstream side of downstream service road bridge of Interstate Highway 610 in northeast Houston and 8.8 mi upstream from mouth.

DRAINAGE AREA.--16.1 mi². Prior to Oct. 1, 1973, 16.8 mi². Oct 1, 1973, to Sept. 30, 1978, 14.7 mi². Oct. 1, 1978, to Sept. 30, 1987, 15.8 mi². Changes due to storm sewer relocations and addition or relocation of ditches.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1964 to current year. Prior to October 1973, published as "U.S. Highway 90-A, Houston".

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.

REMARKS.--No estimated daily discharges. Records good. Low flow is largely maintained by sewage and industrial effluent. The stage-discharge relationship is affected by seasonal vegetal growth during most years. Recording rain gage at station. Stage and rainfall radio-telemeter at station, is operated by the Harris County Flood Control District.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 15	1900	1,340	32.40	Jan. 26	2400	1,560	33.35
Oct. 18	0130	3,430	39.80	Apr. 04	1530	1,170	31.55
Jan. 18	1230	1,260	31.99				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

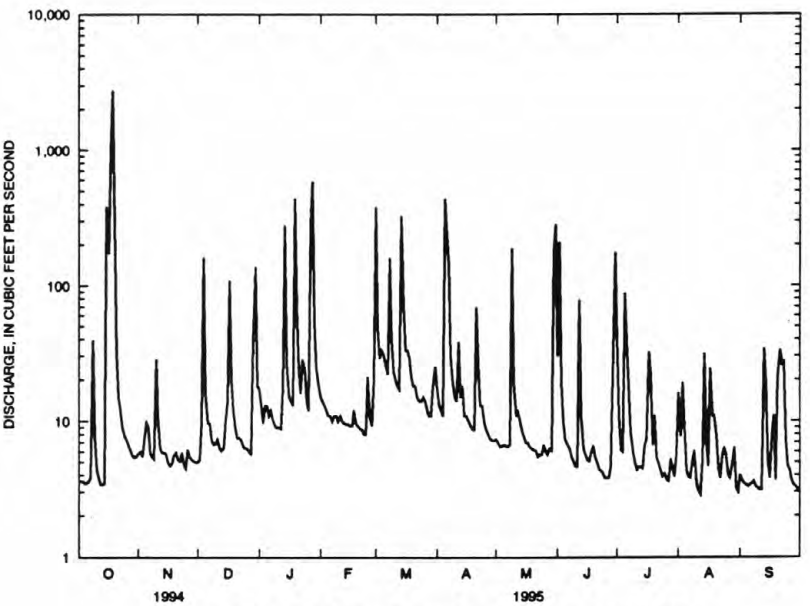
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	6.0	5.2	13	14	49	13	7.0	209	11	7.8	3.7
2	3.6	5.5	9.8	9.8	13	29	12	6.5	19	6.2	19	3.5
3	3.6	7.6	161	13	12	33	11	6.6	9.9	6.0	9.1	3.4
4	3.5	9.8	16	13	11	31	437	6.7	7.3	88	4.3	3.3
5	3.5	9.1	9.8	11	11	26	236	6.6	6.7	39	3.9	3.4
6	3.6	5.8	9.6	12	10	22	141	6.5	6.3	18	3.8	3.5
7	3.8	5.5	7.2	10	11	160	30	6.8	5.5	8.4	5.1	3.6
8	39	5.3	6.8	9.3	11	40	19	188	5.1	6.0	6.1	3.3
9	7.7	28	6.9	9.0	10	23	15	19	4.7	5.0	3.5	3.2
10	4.4	11	7.4	9.0	11	20	14	11	4.6	4.4	3.1	3.1
11	3.8	6.3	6.4	8.9	10	18	38	12	78	4.6	2.9	3.1
12	3.4	5.9	6.1	17	9.7	17	15	10	11	4.6	5.1	34
13	3.4	5.9	6.4	276	9.5	325	18	8.5	6.3	4.5	31	19
14	3.5	5.8	10	26	9.5	71	11	7.8	5.7	6.6	7.0	4.8
15	381	5.0	14	15	9.3	33	11	7.0	5.2	7.4	4.7	3.8
16	173	4.7	109	14	9.3	33	10	7.0	5.1	32	24	7.8
17	991	4.9	20	13	12	29	9.3	6.5	6.0	22	11	11
18	2730	5.6	12	438	9.6	21	8.8	6.3	6.6	6.7	11	3.7
19	292	5.9	9.0	71	9.2	18	8.7	6.2	5.5	11	7.8	21
20	31	5.2	7.6	24	8.9	18	69	6.1	5.0	5.4	4.5	33
21	15	5.1	7.6	16	8.7	15	26	5.5	4.4	4.9	3.8	26
22	12	5.9	7.2	28	8.1	14	13	5.7	4.3	4.4	5.6	27
23	9.0	4.8	6.5	24	8.0	14	13	5.7	4.1	3.9	6.4	7.2
24	7.8	4.5	6.4	14	21	15	9.6	6.7	3.8	4.1	5.6	4.7
25	7.3	6.2	6.3	12	11	14	8.6	6.1	3.8	3.7	4.0	4.4
26	6.6	5.5	6.0	292	9.3	12	8.0	5.7	3.8	3.6	3.8	3.7
27	6.1	5.2	5.8	582	20	11	7.5	6.3	4.7	5.3	5.0	3.4
28	5.6	5.1	39	53	380	11	7.3	6.1	21	4.5	6.4	3.3
29	5.4	5.0	137	24	---	18	7.3	178	175	3.9	3.2	3.1
30	5.5	5.0	18	19	---	25	7.4	281	41	5.7	3.0	3.0
31	5.8	---	17	15	---	17	---	30	---	16	4.0	---
TOTAL	4774.5	201.1	697.0	2091.0	677.1	1182	1234.5	878.9	678.4	356.8	225.5	261.0
MEAN	154	6.70	22.5	67.5	24.2	38.1	41.1	28.4	22.6	11.5	7.27	8.70
MAX	2730	28	161	582	380	325	437	281	209	88	31	34
MIN	3.4	4.5	5.2	8.9	8.0	11	7.3	5.5	3.8	3.6	2.9	3.0
AC-FT	9470	399	1380	4150	1340	2340	2450	1740	1350	708	447	518

08075770 HUNTING BAYOU AT INTERSTATE HIGHWAY 610, HOUSTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

MEAN	25.5	20.3	20.7	29.4	25.5	25.2	22.7	30.2	35.3	17.6	18.0	26.3
MAX	154	51.8	68.0	99.4	107	113	83.0	91.1	136	83.4	121	194
(WY)	1995	1994	1987	1991	1992	1993	1979	1982	1973	1987	1983	1979
MIN	3.75	2.92	4.55	5.18	4.89	3.16	2.88	3.58	2.55	1.95	3.35	5.92
(WY)	1979	1968	1989	1965	1976	1965	1965	1964	1967	1964	1967	1982

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	10422.7		13257.8			
ANNUAL MEAN	28.6		36.3		25.0	
HIGHEST ANNUAL MEAN					45.2	1979
LOWEST ANNUAL MEAN					6.97	1965
HIGHEST DAILY MEAN	2730	Oct 18	2730	Oct 18	2730	Oct 18 1994
LOWEST DAILY MEAN	3.4	Aug 15	2.9	Aug 11	.88	Aug 24 1971
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 30	3.3	Sep 5	1.0	Jul 2 1965
INSTANTANEOUS PEAK FLOW			3430	Oct 18	3470	Jun 26 1989
INSTANTANEOUS PEAK STAGE			39.80	Oct 18	39.91	Jun 26 1989
ANNUAL RUNOFF (AC-FT)	20670		26300		18100	
10 PERCENT EXCEEDS	35		36		40	
50 PERCENT EXCEEDS	7.3		8.0		7.0	
90 PERCENT EXCEEDS	4.4		3.8		3.2	



08075770 HUNTING BAYOU AT INTERSTATE HIGHWAY 610, HOUSTON, TX
MEAN DAILY DISCHARGE (CFS)

08075770 HUNTING BAYOU AT INTERSTATE HIGHWAY 610, HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical, biochemical, and pesticide analyses: October 1968 to current year.

INSTRUMENTATION.--Stage-activated water sampler from July 1983 to September 1988 provided water-quality samples over selected runoff events.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	BOD OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
MAR 14...	1200	58	400	7.6	18.0	55	25	6.7	71	2.8	1.7	20000
MAY 22...	1050	5.7	910	8.4	25.0	13	6.3	12.2	149	8.5	7.4	980
AUG 02...	1045	4.7	414	7.5	27.0	22	7.0	3.0	38	3.7	3.3	45000

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	CARBONATE WATER DIS IT FIELD MG/L AS CO3	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
MAR 14...	24000	150	7	47	7.3	26	0.9	2.9	--	140	31	19
MAY 22...	320	230	0	67	16	110	3	5.6	7	260	65	89
AUG 02...	5100	120	0	38	5.7	37	1	4.9	--	120	31	27

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	RESIDUE VOLATILE, SUSPENDED (MG/L)	RESIDUE FIXED NON FILTERABLE (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
MAR 14...	0.40	11	235	23	8	15	0.790	0.790	0.040	0.830	0.830	0.230
MAY 22...	0.90	7.3	540	16	8	8	4.81	4.81	0.090	4.90	4.90	0.020
AUG 02...	0.40	9.4	237	14	6	8	1.81	1.81	0.090	1.90	1.90	0.300

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)
MAR 14...	0.77	1.0	0.340	0.310	0.95	14	5	100	<0.5	3.0	<5	<3
MAY 22...	0.58	0.60	0.480	0.470	1.4	12	4	110	<0.5	2.0	<5	<3
AUG 02...	0.60	0.90	0.420	0.420	1.3	12	21	86	<0.5	<1.0	<5	<3

DATE	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
MAR 14...	<10	89	20	<4	55	<0.1	<10	<10	<1	<1.0	220	<6
MAY 22...	<10	47	30	19	57	<0.1	<10	10	<1	<1.0	410	<6
AUG 02...	<10	68	20	10	130	<0.1	<10	<10	<2	<1.0	220	<6

DATE	ZINC, DISSOLVED (UG/L AS ZN)	AMETRYNE TOTAL (UG/L)	ATRAZINE WATER UNFLTRD REC (UG/L)	CYANAZINE TOTAL (UG/L)	METHOMYL TOTAL (UG/L)	PROMETONE TOTAL (UG/L)	PROMETRYNE TOTAL (UG/L)	PROPAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SIMAZINE TOTAL (UG/L)	SIMETRYNE TOTAL (UG/L)
MAR 14...	28	<0.10	0.4	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.20	<0.10
MAY 22...	14	<0.10	0.3	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	0.10	<0.10
AUG 02...	36	<0.10	0.1	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10

08075900 GREENS BAYOU NEAR U.S. HIGHWAY 75 NEAR HOUSTON, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°57'22", long 95°24'57", Harris County, Hydrologic Unit 12040104, on right bank at upstream side of bridge on Knobcrest Street, 600 ft downstream from U.S. Highway 75 access road bridge, 8.9 mi upstream from station 08076000, and 20.9 mi upstream from Halls Bayou.

DRAINAGE AREA.--36.6 mi².

PERIOD OF RECORD.--August 1965 to September 1980 and Mar. 27, 1981 to September 1992 (daily mean discharge). Oct. 1, 1980 to Mar. 26, 1981 (discharge measurements and supplemental peak discharges only). October 1992 to current year (peak discharges greater than base discharge).

REVISED RECORDS.--WDR TX-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level; unadjusted for land-surface subsidence. Prior to July 19, 1989, water-stage recorder at site 600 ft upstream at present datum.

REMARKS.--Rain gage at station. Radio telemeter at station.

AVERAGE DISCHARGE.--26 years (water year 1966-80, 1982-1992), 40.5 ft³/s (29,370 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s June 26, 1989 (elevation, 90.20 ft. from peak mark at former site); maximum elevation, 91.09 ft Feb. 21, 1969 at former site, occurred prior to 1980-81 channel rectification; minimum daily discharge, 0.16 ft³/s Oct. 21, 22, 1969.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 18	0700	6,150	84.23	Apr. 4	0930	1,820	77.73
Jan. 26	2330	1,970	78.05				

08076000 GREENS BAYOU NEAR HOUSTON, TX

LOCATION.--Lat 29°55'05", long 95°18'24", Harris County, Hydrologic Unit 12040104, on right bank at downstream side of bridge on U.S. Highway 59 access road, 10.5 mi northeast of Houston, 12.0 mi upstream from Halls Bayou, and 23.4 mi upstream from mouth.

DRAINAGE AREA.--68.7 mi². October 1952 to Sept. 30, 1973, 72.7 mi²; Oct. 1, 1973 to Sept. 30, 1988, 69.6 mi². Basin boundary changes due to relocation of drainage ditches.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year.

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.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Channel was rectified during water years 1974-75. No known diversion above station. Low flow is sustained by Houston Lighting and Power Co. effluent, (which is obtained from ground-water sources) and sewage effluent from Houston suburbs. Gage-height telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	2400	6,610	62.03	Mar. 13	1200	2,550	55.56
Oct. 18	1000	7,150	62.37	Apr. 4	1830	2,310	54.73
Jan. 27	0030	2,890	56.70				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	29	25	41	46	178	41	30	864	64	292	22
2	65	32	35	32	39	98	35	29	337	30	202	23
3	35	31	587	41	37	132	32	36	289	31	150	21
4	25	43	75	33	36	103	967	39	63	90	25	20
5	23	316	40	27	37	77	1350	38	45	129	14	23
6	21	62	33	34	37	63	331	34	40	94	12	23
7	47	37	32	30	44	303	124	34	40	32	14	20
8	225	32	32	25	38	110	75	736	38	22	52	18
9	100	82	31	25	39	62	55	160	37	19	16	18
10	30	69	114	25	40	51	69	52	36	20	19	21
11	23	34	56	25	33	44	460	37	547	19	22	21
12	20	29	38	39	30	38	83	41	115	18	35	56
13	21	29	35	802	e29	1170	52	35	53	18	114	122
14	21	31	46	98	28	347	43	33	41	18	130	33
15	465	31	138	49	32	145	40	31	39	17	146	26
16	509	34	722	38	39	187	38	31	37	19	125	26
17	1920	28	206	34	40	142	36	30	37	32	36	27
18	4720	29	64	534	29	68	37	110	35	39	15	26
19	1290	32	44	132	74	54	36	63	36	432	15	29
20	333	29	38	57	44	47	53	34	34	54	15	32
21	107	27	80	39	35	43	55	30	32	26	33	577
22	62	25	38	173	32	40	38	30	31	17	138	458
23	48	23	30	222	33	41	33	30	29	15	101	57
24	44	22	26	62	65	41	31	28	28	17	95	31
25	38	23	23	43	56	38	29	29	26	16	192	31
26	30	23	20	528	43	35	31	27	26	13	33	32
27	31	25	22	1460	37	102	31	31	24	12	24	28
28	37	29	277	240	1110	48	29	42	25	9.9	20	29
29	31	26	386	105	---	123	30	188	135	20	19	26
30	31	25	78	66	---	113	30	512	260	60	21	29
31	32	---	49	53	---	48	---	167	---	313	20	---
TOTAL	10405	1287	3420	5112	2182	4091	4294	2747	3379	1715.9	2145	1905
MEAN	336	42.9	110	165	77.9	132	143	88.6	113	55.4	69.2	63.5
MAX	4720	316	722	1460	1110	1170	1350	736	864	432	292	577
MIN	20	22	20	25	28	35	29	27	24	9.9	12	18
AC-FT	20640	2550	6780	10140	4330	8110	8520	5450	6700	3400	4250	3780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

MEAN	68.6	66.4	68.6	79.3	91.3	63.7	76.3	111	100	53.7	44.3	69.0
MAX	353	338	293	284	353	262	328	480	549	291	330	443
(WY)	1985	1975	1992	1991	1961	1992	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	35005		42682.9			
ANNUAL MEAN	95.9		117		74.1	
HIGHEST ANNUAL MEAN					180	1992
LOWEST ANNUAL MEAN					6.82	1956
HIGHEST DAILY MEAN	4720	Oct 18	4720	Oct 18	10700	May 18 1989
LOWEST DAILY MEAN	20	Oct 12	9.9	Jul 28	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	22	Sep 24	14	Jul 22	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			7150	Oct 18	16500	Jun 27 1989
INSTANTANEOUS PEAK STAGE			62.37	Oct 18	66.04	Jun 27 1989
ANNUAL RUNOFF (AC-FT)	69430		84660		53710	
10 PERCENT EXCEEDS	183		231		131	
50 PERCENT EXCEEDS	37		37		21	
90 PERCENT EXCEEDS	24		21		1.7	

e Estimated

08076000 GREENS BAYOU NEAR HOUSTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical, biochemical, and pesticide analyses: October 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	BOD OXYGEN DEMAND, BIOCHEM CARBON, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
MAR 14...	0955	302	228	7.8	16.5	110	54	7.7	79	2.7	2.1	7000
MAY 22...	0845	31	750	8.2	24.0	13	17	6.4	76	3.0	2.3	2000
AUG 02...	0850	51	324	7.5	27.0	50	22	5.5	69	2.0	1.5	5700

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAR 14...	18000	81	0	26	3.9	16	0.8	2.7	82	9.0	14	0.20
MAY 22...	620	170	0	54	7.7	86	3	7.2	170	48	85	0.40
AUG 02...	1700	87	5	29	3.4	30	1	4.5	82	20	29	0.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
MAR 14...	11	136	96	18	78	0.570	0.570	0.030	0.600	0.600	0.150	0.55
MAY 22...	18	440	22	4	18	5.58	5.58	0.120	5.70	5.70	0.060	0.54
AUG 02...	13	188	42	13	29	1.63	1.63	0.070	1.70	1.70	0.150	0.45

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAR 14...	0.70	0.280	0.250	0.77	20	2	110	<0.5	<1.0	<5	<3	<10
MAY 22...	0.60	1.30	1.00	3.1	5.2	6	240	<0.5	<1.0	<5	<3	<10
AUG 02...	0.60	0.540	0.540	1.7	8.5	4	140	<0.5	<1.0	<5	<3	<10

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR 14...	190	<10	<4	13	<0.1	<10	<10	<1	<1.0	110	<6	7
MAY 22...	8	20	18	17	<0.1	20	<10	<1	1.0	340	6	13
AUG 02...	62	<10	9	16	<0.1	<10	<10	<1	<1.0	160	<6	15

DATE	AME-TRYNE TOTAL (UG/L)	ATRA-ZINE WATER UNFLTRD REC (UG/L)	CYAN-AZINE TOTAL (UG/L)	METHO-MYL TOTAL (UG/L)	PROME-TONE TOTAL (UG/L)	PROME-TRYNE TOTAL (UG/L)	PRO-PAZINE TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SIMA-ZINE TOTAL (UG/L)	SIME-TRYNE TOTAL (UG/L)
MAR 14...	<0.10	1.3	<0.20	<0.5	<0.20	<0.10	0.10	<0.5	<0.5	0.30	0.10
MAY 22...	<0.10	0.4	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10
AUG 02...	<0.10	0.1	<0.20	<0.5	<0.20	<0.10	<0.10	<0.5	<0.5	<0.10	<0.10

08076180 GARNERS BAYOU NR 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.--February 1986 to September 1993 (daily discharge); October 1993 to present (peaks above base discharge).

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is sea level, 1978 adjustment, furnished by Harris County Flood Control District.

REMARKS.--No known diversion above station. Low flow is sustained by sewage effluent from Humble suburbs. Minor channel rectification made in 1988. Rain gage at station. Radio telemeter at station.

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

Date	Time	Discharge (ft^3/s)	Elevation (ft)	Date	Time	Discharge (ft^3/s)	Elevation (ft)
Oct. 18	0100	3,940	55.12	Jan. 27	0200	1,690	50.55
Oct. 18	0900	3,820	55.06	Mar. 13	0900	1,370	48.70

08076500 HALLS BAYOU AT HOUSTON, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°51'42", long 95°20'05", Harris County, Hydrologic Unit 12040104, on right bank, at downstream side of bridge on Jensen Drive in northeast section of Houston, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--28.7 mi². Oct. 1, 1973, to Sept. 30, 1977, 28.3 mi². Oct. 1, 1977 to Sept. 30, 1988, 27.6 mi². Prior to Oct. 1, 1973, 24.7 mi². Changes were the result of drainage ditch extensions or relocations.

PERIOD OF RECORD.--October 1952 to September 1993 (daily discharge); October 1993 to present (peak discharges greater than base discharge).
Water-quality records.--Chemical, biochemical, and pesticide analyses: October 1968 to September 1984.

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.

REMARKS--Stage discharge relationship is affected by seasonal vegetal growth during most years. No known diversions above station. Low flow is sustained by sewage effluent from Houston suburbs. Rain gage at station. Radio telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s:

Date	Time	Discharge (ft³/s	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	2330	2,580	59.37	Mar. 13	1630	1,380	55.45
Jan. 26	2230	1,820	57.16				

08076700 GREENS BAYOU AT LEY ROAD, HOUSTON, TX

LOCATION.--Lat 29°50'13", long 95°13'59", Harris County, Hydrologic Unit 12040104, on right bank at downstream side of Ley Road Bridge in northeast Houston and 300 ft downstream from mouth of Halls Bayou.

DRAINAGE AREA.--182 mi².

PERIOD OF RECORD.--November 1962 to December 1964, May to September 1971 (discharge measurements only), October 1971 to Sept. 12, 1991, and August 12, 1992 to current year (highwater records only).
Water-quality records: Chemical, biochemical, and pesticide analyses: October 1970 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 2.13 ft below sea level, 1973 adjustment.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge is computed for all storms that produce peak discharges above 2,000 ft³/s. Gage was discontinued on Sept. 12, 1991 for bridge construction and temporarily relocated about 1 mile downstream at US highway 90 to obtain stage data for the Harris County Flood Control District. Gage was moved back to Ley Road on Aug. 12, 1992 at current datum. Rain gage at station. Radio telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s June 27, 1989 (gage height, 39.40 ft, from peak mark); minimum not determined (affected by tide).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	1030	21,800	36.10	Feb. 28	1100	4,350	19.14
Jan. 13	1010	4,280	18.95	Mar. 13	1800	5,590	21.70
Jan. 18	1600	4,470	19.43	Apr. 4	2200	5,050	20.69
Jan. 27	0500	8,690	26.59				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	887	---	---	---	---	---	---
2	---	---	e80	---	---	e250	---	---	---	---	---	---
3	---	---	1470	---	---	---	e80	---	---	---	---	---
4	---	---	e200	---	---	---	2330	---	---	---	---	---
5	---	---	---	---	---	---	2690	---	---	---	---	---
6	---	---	---	---	---	e130	1510	---	---	---	---	---
7	---	---	---	---	---	1230	714	e85	---	---	---	---
8	---	---	---	---	---	648	e250	1480	---	---	---	---
9	---	---	---	---	---	---	e150	e350	---	---	---	---
10	---	---	---	---	---	---	622	---	---	---	---	---
11	---	---	---	---	---	---	1420	---	---	---	---	---
12	---	---	---	e80	---	e90	e400	---	---	---	---	---
13	---	---	---	2260	---	2890	---	---	---	---	---	---
14	e50	---	---	e250	---	1900	---	---	---	---	---	---
15	800	---	e250	---	---	687	---	---	---	---	---	---
16	1950	---	1640	---	---	614	---	---	---	---	---	---
17	4130	---	e350	e200	---	---	---	---	---	---	---	---
18	18000	---	---	2500	---	---	---	---	---	---	---	---
19	7140	---	---	1080	---	---	---	---	---	---	---	---
20	1620	---	---	e250	---	---	---	---	---	---	---	---
21	780	---	---	e150	---	---	---	---	---	---	---	---
22	e300	---	---	e600	---	---	---	---	---	---	---	---
23	---	---	---	1060	---	---	---	---	---	---	---	---
24	---	---	---	e400	---	---	---	---	---	---	---	---
25	---	---	---	e150	---	---	---	---	---	---	---	---
26	---	---	---	1570	---	---	---	---	---	---	---	---
27	---	---	---	6300	e80	---	---	---	---	---	---	---
28	---	---	e60	1250	2880	---	---	---	---	---	---	---
29	---	---	1340	e300	---	---	---	---	---	---	---	---
30	---	---	e220	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated

08077540 CLEAR CREEK AT FRIENDSWOOD TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 29°32'31", long 95°11'48", Harris-Galveston County line, Hydrologic Unit 12040204, on left bank at left downstream side of bridge on Farm Road 2351 at Friendswood.

DRAINAGE AREA.--99.6 mi².

PERIOD OF RECORD.--April 1994 to current year.
Water-quality records.--Chemical analysis: May 1971 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is sea level, furnished by Harris County Flood Control District.

REMARKS.--Records good. Radio telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s:

Date	Time	Discharge (ft³/s)	Elevation (ft)	Date	Time	Discharge (ft³/s)	Elevation (ft)
Oct. 18	2130	7,520	20.15	Jan. 13	1200	2,020	8.09
Oct. 23	0430	2,520	9.58	Feb. 28	1400	1,900	7.73
Dec. 3	1030	4,070	13.45	Mar. 13	1730	2,530	9.60

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, one orifice located upstream and one downstream, at mouth of Moses Lake, and 4.5 mi north of Texas City.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Duplex water-stage recorder. Datum of gage is sea level (levels by county engineer, Galveston County), 1978 adjustment. Prior to May 19, 1983, datum of gage was 0.49 ft below Mean Sea Level, Datum of 1929, 1973 adjustment. Prior records unadjusted for land-surface subsidence.

REMARKS.--Records fair. Moses Lake is connected to Galveston Bay by gated opening through levee. These gates are open during periods of normal tide and are closed during periods of high tide and hurricane surge. Elevation and rainfall telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation (Moses Lake), 4.4 ft Sept. 20, 1979; minimum, -4.2 ft Feb. 28, 1983. Maximum elevation (Galveston Bay), about 10.0 ft (Hurricane Alicia) Aug. 18, 1983; minimum, about -4.2 ft Feb. 28, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (Moses Lake), 2.6 ft Sept. 30 at 1100 hours; minimum -2.0 ft Jan. 19 at 1400 hours. Maximum elevation (Galveston Bay), 2.9 ft July 30 at 1930 hours; minimum, -2.2 Jan. 19 at 1400 hours.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	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	2.4	2.5	1.0	1.3	1.4	.1	1.4	1.4	.2	1.6	1.6	-.5
2	2.2	2.3	1.1	1.5	1.6	.5	1.5	2.0	.1	.5	.8	-.9
3	1.7	1.8	1.1	1.5	1.6	.0	2.3	2.3	.2	1.2	1.1	-.3
4	1.6	1.7	1.2	1.8	1.8	.2	1.5	1.5	-.4	1.0	.9	-.6
5	1.5	1.6	.7	2.0	2.0	.2	1.1	1.1	-.5	1.2	1.4	.3
6	1.7	2.0	1.0	1.4	1.3	---	1.2	1.1	-.2	1.8	1.8	.4
7	2.2	2.4	1.0	1.3	1.3	.0	1.1	1.1	-.4	.7	.7	-.6
8	2.3	2.4	1.0	1.3	1.3	-.1	.6	.7	-.1	.6	.7	-.4
9	1.4	1.6	-.2	1.3	1.3	.0	.9	.8	-.1	.6	.6	-.4
10	1.0	1.1	-.1	.7	.7	---	.4	.3	-1.2	.6	.6	-.6
11	1.1	1.2	.0	.8	.8	.3	.3	.6	-1.3	.7	.8	-.5
12	1.1	1.0	-.3	1.2	1.2	.6	.9	.9	.2	1.0	1.2	-.4
13	1.1	1.0	.1	1.4	1.5	.9	1.0	1.2	-.5	1.2	1.4	-.4
14	1.0	1.0	.3	1.4	1.4	.6	1.3	1.3	.2	.0	.0	-2.1
15	2.1	2.1	.9	1.3	1.3	.4	1.3	1.4	.0	-.6	.0	-1.9
16	2.1	2.1	1.6	1.0	.8	-.1	1.5	1.5	.0	.5	.9	-.8
17	2.4	2.6	1.8	1.0	1.3	-.1	1.1	.9	-.5	1.1	1.2	-.1
18	2.4	2.2	1.6	1.2	1.3	-.2	.8	.9	-.8	1.1	1.1	-1.1
19	2.2	2.2	1.5	1.3	1.5	.2	1.1	1.3	-.1	-.6	-.9	-2.2
20	2.2	2.0	1.0	1.4	1.5	.2	1.6	1.6	.6	-.4	-.1	-1.0
21	2.0	2.0	.8	1.4	1.5	-.4	1.6	1.6	.1	-.1	.0	-.8
22	2.0	2.0	.9	1.1	1.1	-.1	1.2	1.2	-.5	.6	.8	-.2
23	2.0	2.1	.6	1.1	1.1	-.5	.4	.8	-.3	.6	.5	-1.3
24	1.8	1.7	.4	1.1	1.2	.3	.6	.8	-.2	.4	.8	-1.1
25	1.7	1.7	.5	1.6	1.5	.3	.6	.5	-.2	.8	.8	-.5
26	1.3	1.4	.2	1.0	1.1	.3	.6	.7	-.5	1.0	1.1	-.4
27	1.4	1.5	.4	1.3	1.3	.8	1.0	1.1	-.3	1.1	1.1	-.1
28	1.4	1.5	.7	1.4	1.3	.1	1.6	1.7	.2	1.0	1.0	-.6
29	1.7	1.8	1.1	1.5	1.4	.4	1.5	1.3	-.7	.4	.1	-1.4
30	1.8	1.9	1.2	1.3	1.2	-.4	.7	1.0	-1.0	-.2	-.3	-1.8
31	1.3	1.4	.8	---	---	---	1.4	1.5	.0	-.2	.0	-1.2
MONTH	2.4	2.6	-.3	2.0	2.0	---	2.3	2.3	-1.3	1.8	1.8	-2.2

08077650 MOSES LAKE-GALVESTON BAY NEAR TEXAS CITY, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	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	.1	-1.1	.5	.3	-.6	1.8	1.6	.8	1.3	1.4	-.2
2	.0	.0	-.7	.7	.5	-.1	1.5	1.5	.6	1.3	1.2	-.2
3	.0	.0	-1.1	.7	.6	.0	1.9	1.8	.6	1.9	1.8	.3
4	-.7	-1.1	-2.0	1.0	.9	.2	2.4	2.3	.7	1.6	1.6	.6
5	-.5	-.5	-1.4	.9	.9	.1	2.3	2.3	1.3	1.3	1.3	.1
6	.5	.6	-1.2	1.4	1.3	.1	2.0	2.0	.9	1.4	1.3	.3
7	.5	.7	-.8	1.2	1.1	-.8	1.9	1.9	.8	1.8	1.9	.7
8	.1	.2	-.9	.0	-.3	-1.6	1.7	1.7	.7	2.3	2.7	1.2
9	.7	.8	-.7	1.1	.8	-.8	1.6	1.6	.6	1.4	1.5	.8
10	.7	.7	-.7	1.6	1.3	.0	2.4	2.5	1.2	1.2	1.3	.5
11	.2	.4	-.7	1.6	1.3	.2	2.5	2.4	.3	1.0	1.2	.5
12	.2	.7	-1.1	1.8	1.5	.3	1.0	1.0	.4	1.6	1.7	.7
13	1.0	1.1	.0	2.2	1.9	.7	.9	.9	.3	1.9	2.0	.7
14	1.1	1.1	.0	2.1	1.6	.6	1.3	1.2	.5	1.9	2.1	.3
15	1.1	1.2	.1	1.2	1.2	.0	1.7	1.7	.4	1.4	1.5	.1
16	.7	.8	-.5	.9	.9	.3	1.5	1.5	.3	1.6	1.7	.0
17	.0	-.1	-1.0	.9	.9	.3	1.9	1.9	.4	1.9	2.1	.1
18	.1	.2	-.5	.8	.9	.1	2.1	2.0	.3	1.6	1.8	.4
19	.1	.0	-.4	.7	.7	-.1	2.2	2.1	.4	1.1	.9	-.2
20	-.1	-.1	-.8	.9	.9	-.1	2.2	2.2	1.1	1.2	1.3	-.2
21	.2	.3	-1.0	1.0	1.0	-.2	1.8	1.7	.4	1.2	1.3	.7
22	.4	.4	-.9	1.1	1.1	-.2	1.7	1.7	.6	1.1	1.3	.7
23	.5	.6	-.8	1.2	1.2	-.4	1.7	1.8	.0	1.3	1.4	.7
24	.5	.4	-.9	1.4	1.3	-.2	.9	.8	-.6	1.5	1.7	.5
25	.9	.9	-.4	1.9	1.8	.4	1.3	1.2	.7	1.2	1.4	.5
26	1.0	1.0	-.2	1.9	1.8	1.0	1.8	1.7	1.0	1.4	1.5	.5
27	1.1	1.0	-.4	1.5	1.6	.5	1.5	1.5	.4	1.8	1.9	.5
28	.9	.8	-.3	1.8	1.8	.9	1.3	1.3	.4	1.5	1.5	.4
29	---	---	---	2.4	2.3	1.1	1.6	1.7	.4	1.4	1.7	.4
30	---	---	---	2.0	1.8	1.1	1.3	1.3	.1	1.7	1.8	.1
31	---	---	---	1.9	1.7	.9	---	---	---	1.4	1.5	-.1
MONTH	1.1	1.2	-2.0	2.4	2.3	-1.6	2.5	2.5	-.6	2.3	2.7	-.2

DAY	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN
1	1.3	1.5	.0	.7	.7	-.2	2.3	2.4	1.6	1.4	1.5	.3
2	1.2	1.3	.1	.6	.6	-.4	2.4	2.4	1.4	1.5	1.6	.2
3	1.3	1.5	.3	.6	.6	-.2	1.8	1.7	.6	1.4	1.6	.3
4	1.5	1.6	.6	1.2	1.2	.1	1.3	1.2	-.3	1.5	1.7	.2
5	1.3	1.4	.6	1.5	1.5	.6	1.4	1.4	.2	1.7	2.1	.7
6	1.1	1.2	.6	1.3	1.3	.0	2.1	2.1	.6	1.8	2.1	.8
7	1.5	1.6	.8	.9	.9	---	2.1	2.1	.4	2.0	2.1	1.0
8	1.4	1.5	.5	.8	---	---	1.9	1.9	.4	1.6	1.7	1.0
9	1.7	1.8	.4	---	---	---	2.0	2.0	.4	1.3	1.4	1.0
10	1.5	1.6	.0	---	---	---	1.8	1.8	.6	1.4	1.5	.9
11	1.1	1.3	-.9	---	---	---	2.0	2.2	.8	1.4	1.5	.8
12	.5	.5	-.9	---	---	---	1.8	1.7	1.0	1.4	1.5	.5
13	1.1	1.1	-.8	---	---	---	1.5	1.5	1.0	1.4	1.5	.5
14	1.0	1.0	-.4	---	---	---	1.5	1.5	1.0	1.5	1.6	.5
15	1.1	1.1	-.4	---	---	---	1.4	1.5	.8	1.6	1.7	.7
16	1.2	1.2	-.1	---	---	---	1.4	1.5	.6	1.7	1.8	.6
17	1.8	1.9	.4	---	---	---	1.4	1.5	.4	1.6	1.7	.5
18	2.1	2.1	1.4	---	---	---	1.3	1.4	.2	1.5	1.6	.7
19	1.5	1.4	.6	---	---	---	1.3	1.5	.1	1.8	1.9	.6
20	.6	.7	.0	---	---	---	1.1	1.3	.0	1.3	1.6	.4
21	.4	.5	-.4	---	---	---	1.1	1.2	.1	1.3	1.5	.4
22	.4	.4	-.4	---	---	---	1.3	1.4	.2	1.0	1.1	.3
23	.6	.7	-.4	---	---	---	1.5	1.8	.3	1.4	1.5	.8
24	.9	.9	-.4	1.4	.9	---	1.5	1.6	.5	1.7	1.9	1.0
25	.9	1.0	-.3	.9	.8	-.4	1.5	1.6	.5	1.9	2.1	1.4
26	.9	1.0	-.4	.9	.8	-.4	1.3	1.5	.7	1.9	2.0	1.1
27	1.0	1.1	-.2	.8	.7	-.5	1.2	1.4	.7	1.8	1.9	.7
28	1.0	1.1	-.3	.7	.7	-.4	1.1	1.1	.7	1.7	1.8	.5
29	1.3	1.5	-.3	1.4	1.4	-.3	.9	1.1	.4	2.0	2.2	1.1
30	1.5	1.6	.0	1.9	2.9	1.0	1.3	1.6	.9	2.6	2.7	1.5
31	---	---	---	2.5	2.5	1.9	1.6	1.7	.6	---	---	---
MONTH	2.1	2.1	-.9	---	---	---	2.4	2.4	-.3	2.6	2.7	.2

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 pumping 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, 4.8 mi northwest of Virginia Point.
Supplementary gage (station 08077752).--Lat 29°20'26", long 94°51'00", 4,000 ft southeast along LaMarque Levee from LaMarque Levee Pumping Station.

PERIOD OF RECORD.--November 1986 to current year.

GAGE.--Water-stage recorder. Datum of gages are sea level, (levels by Galveston County Engineer).

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. Rain gage at station. Radio and telephone telemeter at station. 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. Radio telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation (landward) 3.5 ft July 26, 1989; maximum elevation (seaward) 3.6 ft Oct. 15, 1989; minimum (seaward), -2.0 ft Apr. 11, 1988. Supplementary gage: Maximum elevation (landward) 11.0 ft June 7, 1992; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation (landward), 1.9 ft June 30 at 0915; maximum elevation (seaward), 2.7 ft July 31 at 0045 hours; minimum (seaward), -1.4 ft Jan. 19 at 1945 hours.
Supplemental gage: Maximum elevation (landward), 1.8 ft June 30 at 0630 hours; minimum not determined.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	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	---	2.5	1.0	---	---	1.5	.4	---	---	1.5	.5	---
2	---	2.4	1.4	---	---	1.7	.9	---	---	1.9	.6	-.7
3	---	1.9	1.2	---	---	1.7	.6	---	.4	2.5	1.3	.2
4	---	1.7	1.1	---	---	2.0	.9	---	---	1.6	.2	---
5	---	1.6	.7	---	---	2.2	.6	---	---	1.2	.1	---
6	---	1.9	1.1	---	---	1.4	.1	---	---	1.2	.3	---
7	---	2.3	1.3	---	---	1.5	.5	---	---	1.2	.1	---
8	---	2.3	.9	---	---	1.5	.5	---	---	.7	.2	---
9	---	1.4	-.1	---	---	1.5	.4	---	---	.9	.1	---
10	---	1.2	.1	---	---	.8	.1	---	---	.5	-.6	---
11	---	1.2	.2	---	---	.9	.4	---	---	.6	-.8	---
12	---	1.2	.2	---	---	1.2	.7	---	---	1.0	.5	---
13	---	1.1	.3	---	---	1.6	1.1	---	---	1.3	.0	---
14	---	1.2	.4	-1.5	---	1.6	.9	---	---	1.5	.5	---
15	---	2.3	.8	---	---	1.5	.7	---	---	1.5	.4	---
16	-2.7	2.3	1.7	---	---	1.0	-.1	---	-3.0	1.7	.7	---
17	---	2.4	1.9	---	---	1.3	.2	---	---	1.1	-.1	---
18	-2.8	2.1	1.2	---	---	1.3	.3	---	---	.9	-.2	---
19	-2.8	2.0	1.2	---	---	1.5	.5	---	---	1.2	.3	---
20	---	1.9	1.0	---	---	1.5	.7	---	---	1.7	.7	---
21	---	1.9	1.0	---	---	1.5	.2	---	---	1.7	.5	---
22	---	1.8	1.1	---	---	1.2	.3	---	---	1.2	-.2	---
23	---	2.0	.7	---	---	1.1	.0	---	---	.6	-.1	---
24	---	1.8	.7	---	---	1.3	.7	---	---	.7	.0	---
25	---	1.6	.7	---	---	1.7	.6	---	---	.6	.0	---
26	---	1.3	.5	---	---	1.1	.6	---	---	.7	-.2	---
27	---	1.5	.6	---	---	1.4	.9	---	---	1.0	.0	---
28	---	1.5	.8	---	---	1.4	.5	---	---	1.9	.5	---
29	---	1.7	1.0	---	---	1.6	.8	---	---	1.6	-.1	---
30	---	1.8	1.2	---	---	1.3	.2	---	---	.8	-.4	---
31	---	1.5	.9	---	---	---	---	---	-2.2	1.6	.4	-1.8
MONTH	---	2.5	-.1	---	---	2.2	-.1	---	---	2.5	-.8	---

08077740 LAMARQUE LEVEE PUMP STATION NEAR LAMARQUE, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	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	-2.3	1.7	.1	---	---	---	---	---	---	.4	-.2	---
2	---	.7	-.3	---	---	---	---	---	---	.6	.2	---
3	---	1.2	.3	---	---	---	---	---	---	.6	.2	---
4	---	1.0	-.1	---	---	---	---	---	---	1.0	.3	---
5	---	1.5	.5	---	---	---	---	---	---	.7	.3	---
6	---	2.0	.8	---	---	---	---	---	---	1.2	.2	---
7	---	.9	-.3	---	---	---	---	---	-2.0	1.2	.0	-1.4
8	---	.6	-.3	---	---	---	---	---	---	.1	-.9	---
9	-3.0	.7	-.1	---	---	.8	-.4	---	---	.8	-.5	---
10	-2.9	.7	-.1	---	---	.8	-.3	---	---	1.3	.2	---
11	---	.8	-.2	---	---	.2	-.6	---	---	1.4	.5	---
12	---	1.1	.0	---	---	.6	-.5	---	---	1.6	.7	---
13	-2.0	1.3	.1	-1.6	---	1.1	.4	---	-1.8	1.7	1.2	-1.5
14	---	.3	-1.4	---	---	1.2	.4	---	-2.1	1.6	.9	---
15	---	-.2	-1.2	---	---	1.3	.4	---	---	1.3	.6	---
16	---	.7	-.3	---	---	.8	-.1	---	---	.9	.3	---
17	---	1.2	.4	---	---	.1	-.4	---	---	.9	.2	---
18	---	1.2	-.4	---	---	.3	-.3	---	---	.7	.2	---
19	---	-.4	-1.4	---	---	.1	-.3	---	---	.6	.0	---
20	---	-.1	-1.0	---	---	.0	-.5	---	---	.8	.1	---
21	---	.0	-.6	---	---	.2	-.8	---	-3.0	.9	-.1	---
22	---	.5	-.2	---	---	.4	-.6	---	---	.9	.0	---
23	---	.4	-.7	---	---	.5	-.4	---	---	1.0	-.1	---
24	---	.5	-.9	---	---	.5	-.6	---	---	1.2	.0	---
25	---	.9	-.2	---	---	1.0	-.1	---	---	1.7	.6	---
26	---	1.1	.1	---	---	1.0	.2	---	---	1.5	-3.3	---
27	---	---	---	---	---	1.1	.1	---	---	-3.3	-4.4	---
28	---	---	---	---	-1.3	1.0	.1	-1.0	---	-3.8	-4.5	---
29	---	---	---	---	---	---	---	---	-2.4	2.1	-4.6	-1.7
30	---	---	---	---	---	---	---	---	-2.6	1.7	1.2	---
31	---	---	---	---	---	---	---	---	---	1.6	1.1	---
MONTH	---	---	---	---	---	---	---	---	---	2.1	-4.6	---

DAY	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MIN	MAX
1	---	1.6	.8	---	---	1.2	.4	---	-2.1	1.3	.3	-1.9
2	---	1.4	.7	---	---	1.1	-.2	---	---	1.2	.3	---
3	---	1.7	.6	---	---	1.8	.4	---	---	1.3	.5	---
4	-2.2	2.2	.9	-1.4	---	1.5	.8	---	---	1.3	.6	---
5	---	2.3	1.3	---	---	1.2	.2	---	---	1.3	.5	---
6	---	1.8	.9	---	---	1.4	.4	---	---	1.1	.6	---
7	---	1.7	.8	---	---	1.9	.8	---	---	1.5	.7	---
8	---	1.5	.8	---	---	2.1	1.3	---	---	1.4	.6	---
9	-2.9	1.4	.8	---	---	1.4	.7	---	---	1.6	.6	---
10	-2.6	2.3	1.1	---	---	1.1	.6	---	---	1.5	.5	---
11	-2.5	2.3	.5	---	---	1.0	.6	---	---	1.2	-.1	---
12	---	.9	.4	---	---	1.6	.6	---	---	.5	-.6	---
13	---	.8	.4	---	---	1.9	.8	---	---	1.1	-.4	---
14	---	1.2	.4	---	---	1.9	.9	---	---	1.0	.0	---
15	---	1.5	.7	---	---	1.4	.4	---	---	1.0	-.1	---
16	---	1.4	.5	---	---	1.6	.4	---	---	1.2	.1	---
17	---	1.8	.6	---	---	2.0	.7	---	---	1.8	.6	---
18	---	1.9	.8	---	---	1.6	.7	---	---	2.2	1.5	---
19	---	2.1	.8	---	---	1.1	.0	---	---	1.5	.6	---
20	---	2.0	1.1	---	---	1.2	.0	---	-3.0	.7	.1	---
21	---	1.7	.6	---	---	1.2	.7	---	-2.9	.4	-.1	---
22	---	1.6	.7	---	---	1.2	.7	---	---	.4	-.2	---
23	---	1.6	.0	---	---	1.3	.8	---	---	.6	-.3	---
24	---	.7	-.3	---	---	1.5	.7	---	---	.8	-.2	---
25	---	1.2	.7	---	---	1.2	.5	---	---	.8	.0	---
26	---	1.8	.8	---	---	1.4	.4	---	---	1.0	-.2	---
27	---	1.5	.6	---	---	1.8	.6	---	---	1.1	.0	---
28	---	1.2	.4	---	---	1.5	.6	---	---	1.1	.0	---
29	---	1.7	.7	---	---	1.5	.4	---	-1.7	1.3	.0	.0
30	---	1.2	.5	---	-1.9	2.0	.5	-1.4	1.9	2.2	.5	1.8
31	---	---	---	---	---	1.4	.2	---	---	---	---	---
MONTH	---	2.3	-.3	---	---	2.1	-.2	---	---	2.2	-.6	---

08077740 LAMARQUE LEVEE PUMP STATION NEAR LAMARQUE, TX--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	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	-2.4	1.2	.3	-1.4	-2.3	2.1	1.4	-1.9	---	1.1	.2	-1.9
2	---	.7	.0	---	-3.0	2.2	1.2	---	---	1.4	.3	---
3	---	.7	.0	---	---	1.5	.6	---	---	1.3	.4	---
4	---	1.3	.5	---	---	.9	-.1	---	---	1.5	.4	---
5	---	1.4	.5	---	---	1.0	.0	---	-2.8	1.7	.4	-2.0
6	---	1.2	.2	---	---	1.8	.3	---	-2.7	1.8	.7	---
7	---	.9	-.1	---	---	1.9	.6	---	---	2.0	.9	---
8	---	.8	-.1	---	---	1.6	.6	---	---	1.7	1.0	---
9	---	1.0	-.2	---	---	1.8	.5	---	---	1.3	.9	---
10	---	.7	-.1	---	---	1.7	.7	---	---	1.4	.8	---
11	---	.5	-.4	---	---	2.0	.7	---	---	1.3	.8	---
12	---	.5	-.6	---	---	1.6	1.0	---	---	1.3	.5	---
13	---	.9	-.4	---	---	1.3	.8	---	---	1.3	.6	---
14	---	1.2	.0	---	---	1.3	.8	---	---	1.4	.6	---
15	---	1.0	.4	---	---	1.3	.7	---	---	1.5	.7	---
16	---	.9	.2	---	---	1.3	.6	---	---	1.6	.6	---
17	---	.7	.1	---	---	1.2	.4	---	---	1.5	.5	---
18	---	.4	-.2	---	---	1.1	.2	---	---	1.4	.6	---
19	---	.4	-.3	---	---	1.1	.1	---	---	1.7	.7	-1.6
20	---	.4	-.3	---	---	.9	.0	---	---	1.3	.5	---
21	---	.4	-.4	---	---	.8	.0	---	---	1.2	.4	---
22	---	.4	-.4	---	---	1.1	.1	---	---	1.0	.4	---
23	---	.5	-.5	---	---	1.4	.2	---	---	1.5	.8	---
24	---	.7	-.3	---	---	1.3	.5	-2.0	---	1.8	1.0	---
25	---	.7	-.3	---	---	1.4	.4	---	---	2.0	1.3	---
26	---	.7	-.3	---	---	1.3	.6	---	---	1.9	1.1	---
27	---	.6	-.3	---	-3.0	1.0	.5	-2.0	---	1.7	.8	---
28	---	.5	-.3	---	-2.9	.8	.4	-1.9	---	1.6	.6	---
29	---	1.0	-.3	---	---	.8	.2	---	---	2.0	1.1	---
30	---	2.6	1.0	---	---	1.3	.7	-2.0	---	2.5	1.6	---
31	---	2.7	1.8	---	---	1.4	.5	-1.9	---	---	---	---
MONTH	---	2.7	-.6	---	---	2.2	-.1	---	---	2.5	.2	---

08078000 CHOCOLATE BAYOU NEAR ALVIN, TX

LOCATION.--Lat 29°22'09", long 95°19'14", Brazoria County, Hydrologic Unit 12040204, on right bank 800 ft downstream from bridge on Farm Road 1462, 5.9 mi southwest of Alvin, and 6.9 mi upstream from State Highway 35.

DRAINAGE AREA.--87.7 mi². During extreme flooding, overflow from about 11 mi² of the Mustang Bayou drainage basin enters the Chocolate Bayou basin upstream from gage.

PERIOD OF RECORD.--August to October 1944, and March to December 1946 (low-water records during irrigation season); January 1947 to February 1958, and March 1958 to February 1959 (discharge measurements only); March 1959 to current year.

Water-quality records.--Chemical and biochemical analyses: May 1971 to September 1985. Pesticide analyses: May 1971 to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 0.31 ft above sea level. Prior to May 3, 1959, nonrecording gage or water-stage recorders located at various sites from 900 to 1,400 ft upstream and at datum 3.00 ft higher. May 3, 1959, to Sept. 30, 1987, present site, at datum 10.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Stage-discharge relationship 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 April to October is largely drainage from these irrigated lands. Diversions for irrigation occur above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1939, reached a stage of 32.5 ft, present site and datum, adjusted from floodmark 1,700 ft to right and 550 ft upstream from present gage, on basis of slope of flood of Oct. 8, 1949, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 20	0300	3,940	30.94	Mar. 14	0700	1,800	25.94
Dec. 4	1000	2,750	29.32	Mar. 30	1200	2,270	27.99
Jan. 14	0400	1,830	26.08	Apr. 6	1300	1,780	25.83
Jan. 27	1800	1,260	22.84	May 31	1400	1,740	25.63
Feb. 28	1900	1,210	22.51	June 30	1800	1,480	24.20

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.7	2.8	776	44	794	219	5.2	1420	975	104	32
2	5.0	8.7	12	325	33	241	101	6.4	528	276	165	28
3	6.1	8.2	1880	206	27	146	56	7.0	143	117	197	24
4	6.2	7.7	2660	194	19	113	402	10	76	182	125	29
5	6.5	7.8	1690	100	14	88	1590	21	49	223	99	32
6	5.3	7.1	322	74	11	63	1740	29	39	143	90	28
7	6.7	6.3	129	59	9.6	463	1030	33	42	100	90	29
8	13	5.8	75	40	8.2	693	252	67	37	75	149	29
9	22	15	48	30	7.2	204	110	82	32	68	108	27
10	14	33	34	25	8.0	90	62	42	45	60	84	27
11	9.0	13	28	22	8.4	54	42	40	66	58	75	27
12	6.4	8.4	21	21	7.8	38	31	38	104	59	91	33
13	8.0	7.3	18	1280	6.6	837	22	25	88	62	137	33
14	7.9	6.5	16	1640	6.2	1660	16	19	70	72	126	34
15	7.9	6.5	13	506	6.7	624	14	24	60	72	140	40
16	356	5.8	125	142	8.4	265	13	30	45	83	110	35
17	353	5.6	270	82	15	154	12	22	45	85	93	27
18	1520	5.4	106	273	17	79	10	17	46	77	83	23
19	3430	5.3	56	764	12	47	10	23	64	75	84	22
20	3790	5.0	36	276	9.8	32	9.3	20	72	79	80	14
21	3230	4.5	27	122	8.9	25	9.3	13	78	76	71	14
22	2350	3.8	19	80	6.8	20	8.4	36	64	74	70	15
23	700	3.4	13	287	5.9	16	9.3	36	62	70	69	2.3
24	119	3.3	9.5	169	8.3	14	8.2	39	52	73	63	1.3
25	68	3.3	7.7	86	31	12	9.2	17	50	72	53	2.8
26	44	3.3	6.5	90	18	12	6.7	9.6	54	72	47	2.3
27	30	3.4	5.8	991	12	12	5.6	14	51	73	50	2.0
28	23	3.4	29	807	697	10	5.6	15	148	77	58	1.3
29	19	3.1	470	253	---	764	5.9	78	592	78	52	1.9
30	15	2.9	301	112	---	2080	7.4	972	1310	86	47	1.7
31	12	---	290	64	---	1090	---	1690	---	105	39	---
TOTAL	16190.6	212.5	8720.3	9896	1066.8	10740	5816.9	3480.2	5532	3797	2849	617.6
MEAN	522	7.08	281	319	38.1	346	194	112	184	122	91.9	20.6
MAX	3790	33	2660	1640	697	2080	1740	1690	1420	975	197	40
MIN	5.0	2.9	2.8	21	5.9	10	5.6	5.2	32	58	39	1.3
AC-FT	32110	421	17300	19630	2120	21300	11540	6900	10970	7530	5650	1230

08078000 CHOCOLATE BAYOU NEAR ALVIN, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

MEAN	73.1	87.2	99.5	134	110	71.3	92.8	140	225	168	112	133
MAX	522	378	378	464	508	359	431	528	876	1659	642	843
(WY)	1995	1975	1977	1992	1992	1985	1973	1992	1968	1979	1989	1979
MIN	.52	1.08	.77	3.49	2.38	3.38	8.57	21.4	18.2	46.2	15.2	7.74
(WY)	1978	1981	1990	1971	1976	1981	1987	1985	1990	1990	1972	1989

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	54306.4		68918.9			
ANNUAL MEAN	149		189		120	
HIGHEST ANNUAL MEAN					340	1979
LOWEST ANNUAL MEAN					39.6	1988
HIGHEST DAILY MEAN	3790	Oct 20	3790	Oct 20	15700	Jul 26 1979
LOWEST DAILY MEAN	1.8	Mar 8	1.3	Sep 24	.03	Dec 17 1975
ANNUAL SEVEN-DAY MINIMUM	2.3	Mar 2	1.9	Sep 24	.08	Oct 15 1977
INSTANTANEOUS PEAK FLOW			3940	Oct 20	21500	Jul 26 1979
INSTANTANEOUS PEAK STAGE			30.94	Oct 20	33.88	Jul 26 1979
ANNUAL RUNOFF (AC-FT)	107700		136700		86600	
10 PERCENT EXCEEDS	310		466		212	
50 PERCENT EXCEEDS	27		39		33	
90 PERCENT EXCEEDS	5.6		6.3		3.7	

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 mi², of which 1,222 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1961 to current year. Prior to October 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.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1895, 25.8 ft in 1914 and 22.2 ft in September 1955, from information by local resident. Flood in July 1961 reached a stage of 18.2 ft, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 5	2100	2,720	8.30	Sept. 19	1200	6,780	a9.96
May 29	1500	5,380	a9.47	Sept. 25	0630	3,690	a8.78

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
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	24	.00	6.5	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.57	.00	2.5	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.08	.00
4	.00	.00	e.01	.00	.00	.00	.00	.00	.12	.00	.01	.00
5	.00	.00	e.01	.00	.00	.00	.00	424	.07	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	167	.03	.00	.00	.00
7	330	.00	.00	.00	.00	.00	.00	15	.00	.00	.00	.00
8	20	.00	.00	.00	.00	.00	.00	3.3	.00	.00	.00	.00
9	.13	.00	.00	.00	.00	.00	.00	.23	.00	.00	.00	e.03
10	.03	.00	.00	.00	.00	.00	.00	.06	e7.5	.00	.00	e.01
11	.03	.00	.00	.00	.00	.00	.00	.00	128	.00	.00	.00
12	e.01	.00	.00	.00	.00	.00	.00	.00	2.7	.00	.00	7.9
13	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00	107
14	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00	19
15	.00	.00	.00	.00	.00	.00	.00	e.19	.15	.00	.00	444
16	.00	.00	.00	.00	.11	.00	.00	.39	e.01	.00	.00	45
17	.00	.00	.00	.00	.02	.00	289	.00	.00	.00	.00	116
18	.00	.00	.00	.00	.00	.00	42	.00	.00	.00	.00	289
19	.00	e.21	.00	.00	.00	.00	.07	.00	.00	.00	.00	1710
20	.03	68	.00	.00	.00	.00	.00	.00	.00	.00	.00	63
21	.07	1.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.2
22	e.01	e.23	.00	.00	.00	.00	.00	.00	.00	193	.00	.37
23	.00	e.13	.00	.00	.00	.00	.00	.00	.00	18	.00	e.01
24	.00	.10	.00	.00	.00	.00	.00	1.4	.00	e.06	.00	.00
25	.00	e.02	.00	.00	.00	.00	.00	.11	.00	.00	.00	838
26	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	29
27	.00	.00	.00	.00	.00	.00	.00	2.5	.01	.00	.00	1.9
28	.00	.00	.00	.00	.00	.00	.00	e.01	.01	.00	.00	.23
29	.00	.00	.00	.00	---	.00	.00	1130	.00	.00	.00	.14
30	.00	.00	.00	.00	---	.00	.00	258	.00	.00	.00	.01
31	.00	---	.00	.00	---	.00	---	11	---	.00	.00	---
TOTAL	350.31	70.19	0.03	0.00	0.13	0.00	331.07	2013.43	163.92	211.06	9.09	3672.80
MEAN	11.3	2.34	.001	.000	.005	.000	11.0	64.9	5.46	6.81	.29	122
MAX	330	68	.01	.00	.11	.00	289	1130	128	193	6.5	1710
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	695	139	.06	.00	.3	.00	657	3990	325	419	18	7280
CFSM	.05	.01	.00	.00	.00	.00	.05	.27	.02	.03	.00	.50
IN.	.05	.01	.00	.00	.00	.00	.05	.31	.02	.03	.00	.56

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	32.8	6.10	5.00	2.38	4.97	7.32	11.3	57.1	71.3	29.8	35.4	56.5
MAX	276	38.7	87.7	30.9	56.1	81.6	120	357	510	249	408	321
(WY)	1986	1969	1992	1992	1992	1970	1966	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	2640.11		6822.03			
ANNUAL MEAN	7.23		18.7		26.2	
HIGHEST ANNUAL MEAN					69.8	1967
LOWEST ANNUAL MEAN					1.65	1983
HIGHEST DAILY MEAN	569	May 12	1710	Sep 19	9920	Aug 13 1972
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Feb 17 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 13	.00	Mar 3 1962
INSTANTANEOUS PEAK FLOW			6780	Sep 19	49600	May 6 1969
INSTANTANEOUS PEAK STAGE			a9.96	Sep 19	19.80	May 6 1969
ANNUAL RUNOFF (AC-FT)	5240		13530		18990	
ANNUAL RUNOFF (CFSM)	.030		.077		.11	
ANNUAL RUNOFF (INCHES)	.40		1.04		1.46	
10 PERCENT EXCEEDS	.11		.90		10	
50 PERCENT EXCEEDS	.00		.00		.04	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From floodmark.

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Chemical analyses: December 1964 to September 1965, and October 1975 to current year. Sediment analyses: June 1977 to June 1982.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.

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 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, 31,400 microsiemens Dec. 6, 1994; minimum daily, 370 microsiemens Oct. 20, 1983.
WATER TEMPERATURES: Maximum daily, 34.0°C Aug. 18, 1991; minimum daily, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 31,400 microsiemens Dec. 6; minimum daily, 508 microsiemens Sept. 25.
WATER TEMPERATURE: Maximum daily, 33.0°C July 23; minimum daily, 4.5°C Feb. 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
DEC									
06...	1235	0.01	31400	14.0	3500	3400	760	400	7200
FEB									
16...	0830	0.23	11000	4.5	910	820	230	82	2100
APR									
17...	0900	1250	1150	17.0	110	0	32	6.6	200
MAY									
25...	0820	0.10	18100	14.5	1500	1400	340	170	3500
JUN									
13...	1047	0.48	7720	24.5	740	560	190	64	1600

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC								
06...	53	22	190	1700	12000	0.60	7.6	22200
FEB								
16...	30	10	92	550	3600	0.50	5.3	6630
APR								
17...	8	4.6	250	69	160	0.80	16	638
MAY								
25...	39	18	170	680	6100	0.80	10	10900
JUN								
13...	26	11	180	280	2400	0.90	12	4660

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.	1994	350.31	2490	1550	1470	760	723	120	118	200
NOV.	1994	70.19	3750	2340	443	1200	219	180	35	300
DEC.	1994	0.03	30800	18500	1.5	10200	0.8	1000	0.08	*
JAN.	1995	0.00	*	*	0.00	*	0.00	*	0.00	*
FEB.	1995	0.13	12800	7870	2.8	4100	1.4	560	0.2	*
MAR.	1995	0.00	*	*	0.00	*	0.00	*	0.00	*
APR.	1995	331.07	2570	1610	1440	790	707	130	115	210
MAY	1995	2013.43	914	572	3110	280	1520	46	253	74
JUNE	1995	163.92	1270	793	351	390	172	64	28	100
JULY	1995	211.06	1050	655	373	320	182	53	30	84
AUG.	1995	9.09	7780	4820	118	2400	60	360	8.9	590
SEPT	1995	3672.80	710	445	4410	220	2160	36	358	57
TOTAL		6822.03	**	**	11700	**	5740	**	947	**
WTD.AVG.		19	1020	636	**	310	**	51	**	82

08079600 DOUBLE MOUNTAIN FORK BRAZOS RIVER AT JUSTICEBURG, TX--Continued

FROM DAILY OBSERVER
SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1280	---	8350	---
2	---	---	---	---	---	---	---	---	4500	---	6230	---
3	---	---	---	---	---	---	---	---	8990	---	8660	---
4	---	---	e30000	---	---	---	---	---	9590	---	14800	---
5	---	---	e31000	---	---	---	---	1170	10600	---	---	---
6	---	---	31400	---	---	---	---	1090	10000	---	---	---
7	2500	---	---	---	---	---	---	2480	---	---	---	---
8	2100	---	---	---	---	---	---	2740	---	---	---	---
9	6950	---	---	---	---	---	---	7300	---	---	---	e14000
10	13500	---	---	---	---	---	---	15100	e3500	---	---	e20000
11	18800	---	---	---	---	---	---	---	1000	---	---	---
12	e19000	---	---	---	---	---	---	---	3200	---	---	4450
13	---	---	---	---	---	---	---	---	8560	---	---	1360
14	---	---	---	---	---	---	---	---	11600	---	---	5300
15	---	---	---	---	---	---	---	e7500	12600	---	---	563
16	---	---	---	---	11500	---	---	18300	e17200	---	---	1100
17	---	---	---	---	20000	---	2500	---	---	---	---	2900
18	---	---	---	---	---	---	3070	---	---	---	---	651
19	---	e18000	---	---	---	---	11500	---	---	---	---	576
20	18700	3700	---	---	---	---	---	---	---	---	---	804
21	22900	2680	---	---	---	---	---	---	---	---	---	1920
22	e23000	e5400	---	---	---	---	---	---	---	1020	---	3210
23	---	e8500	---	---	---	---	---	---	---	1310	---	4170
24	---	11500	---	---	---	---	---	10600	---	e6030	---	---
25	---	e15000	---	---	---	---	---	18800	---	---	---	508
26	---	---	---	---	---	---	---	18800	---	---	---	1030
27	---	---	---	---	---	---	---	1560	17800	---	---	2210
28	---	---	---	---	---	---	---	e3000	21100	---	---	4200
29	---	---	---	---	---	---	---	780	---	---	---	5880
30	---	---	---	---	---	---	---	700	---	---	---	7530
31	---	---	---	---	---	---	---	1510	---	---	---	---
MEAN	14200	9250	30800	---	15700	---	5690	6960	9430	2790	9510	4120

e Estimated

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	16.5	---	21.0	---
2	---	---	---	---	---	---	---	---	21.0	---	20.5	---
3	---	---	---	---	---	---	---	---	23.0	---	28.0	---
4	---	---	---	---	---	---	---	---	23.0	---	23.0	---
5	---	---	---	---	---	---	---	17.5	19.5	---	---	---
6	---	---	14.0	---	---	---	---	16.5	24.0	---	---	---
7	19.5	---	---	---	---	---	---	20.0	---	---	---	---
8	13.0	---	---	---	---	---	---	17.0	---	---	---	---
9	13.0	---	---	---	---	---	---	13.0	---	---	---	---
10	15.5	---	---	---	---	---	---	18.0	---	---	---	---
11	13.0	---	---	---	---	---	---	---	17.5	---	---	---
12	---	---	---	---	---	---	---	---	22.0	---	---	20.0
13	---	---	---	---	---	---	---	---	19.0	---	---	19.0
14	---	---	---	---	---	---	---	---	18.0	---	---	21.0
15	---	---	---	---	---	---	---	---	19.0	---	---	20.0
16	---	---	---	---	4.5	---	---	22.0	---	---	---	21.5
17	---	---	---	---	10.0	---	17.0	---	---	---	---	24.0
18	---	---	---	---	---	---	17.0	---	---	---	---	23.0
19	---	---	---	---	---	---	12.0	---	---	---	---	19.5
20	18.5	6.0	---	---	---	---	---	---	---	---	---	18.0
21	18.0	9.5	---	---	---	---	---	---	---	---	---	20.0
22	---	---	---	---	---	---	---	---	---	30.0	---	10.0
23	---	---	---	---	---	---	---	---	---	33.0	---	14.0
24	---	8.0	---	---	---	---	---	16.0	---	---	---	---
25	---	---	---	---	---	---	---	14.5	---	---	---	15.0
26	---	---	---	---	---	---	---	16.0	---	---	---	15.0
27	---	---	---	---	---	---	---	18.0	20.0	---	---	18.5
28	---	---	---	---	---	---	---	---	22.0	---	---	20.0
29	---	---	---	---	---	---	---	16.0	---	---	---	20.0
30	---	---	---	---	---	---	---	16.0	---	---	---	21.0
31	---	---	---	---	---	---	---	19.0	---	---	---	---
MEAN	15.8	7.8	14.0	---	7.2	---	15.3	17.1	20.3	31.5	23.1	18.9

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 mi south of Aspermont, and at mile 34.5, measured from confluence with Salt Fork Brazos River, which is at mile 923.2 on the Brazos River.

DRAINAGE AREA.--8,796 mi², of which 6,932 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1923 to September 1934, June 1939 to current year.

REVISED RECORDS.--WSP 733: 1927(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,624.79 ft above sea level. Dec. 3, 1923, to Sept. 30, 1934, nonrecording gage at site 90 ft downstream at datum 2.0 ft higher, and June 8, 1939, to Aug. 12, 1972, water-stage recorder at present site and datum 2.0 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. There are small diversions above station for oil field operations. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,800 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.05	.11	e.44	.17	e.00	.07	.00	1020	2.6	109	.38
2	.00	e.01	.11	e.44	.12	e.00	.07	.00	584	2.0	668	.38
3	.00	e.00	.11	e.33	.01	e.00	.11	.00	341	1.7	80	.38
4	.00	e.00	.11	e.33	e.00	e.00	.14	.00	133	1.4	2700	.33
5	.00	3.9	.11	e.33	e.01	e.00	.14	17	84	.80	585	.33
6	.00	1.7	.11	e.33	.02	e.00	.11	73	633	.44	46	.33
7	.91	.24	.11	e.33	e.02	.08	.07	125	130	.33	32	.28
8	2.8	.24	7.2	e.33	e.02	.00	e.01	276	43	.20	20	.24
9	e.24	.11	13	e.24	e.02	.00	.00	109	31	.09	14	.24
10	e.02	.05	e.90	e.24	e.04	.00	.17	45	185	.02	13	.33
11	.00	e.01	e.56	e.24	e.05	.00	.05	17	675	.00	11	.64
12	.00	e.00	.44	e.24	e.09	e.00	.00	9.1	405	.00	6.6	.80
13	.00	e.00	.33	e.24	.17	e.00	.00	6.2	334	.00	5.6	.56
14	.00	.00	.24	e.24	.17	e.00	.00	1.7	139	.00	5.0	.44
15	.00	.00	.44	e.17	.09	e.00	.00	.90	67	.00	4.1	.56
16	.00	.00	.33	e.17	.04	e.00	.00	9.9	45	.00	3.3	.80
17	.00	.00	e.33	e.17	.02	e.03	.06	7.2	34	.00	2.2	.90
18	.00	.00	e.24	.36	e.01	e.07	.00	.99	24	9.6	1.8	923
19	.00	e.01	.24	8.7	e.00	e.17	.00	.38	20	.14	1.5	1620
20	9.6	e.05	.24	1.2	e.00	.33	.00	.14	16	.00	1.5	1520
21	57	.11	.24	e.90	.00	.17	.00	.03	13	.00	1.5	1440
22	14	11	.24	e.72	.00	.05	.00	.00	12	.00	1.4	541
23	e1.8	14	.24	.56	.00	.04	.00	.00	11	.00	.72	165
24	e1.2	6.1	e.24	.44	.00	.04	.00	16	7.6	.00	.56	107
25	4.2	3.3	e.24	.17	.00	e.04	.00	28	7.3	.00	.44	102
26	5.0	e.72	e.24	.14	.00	e.04	.00	15	6.6	.00	.28	101
27	e1.7	.11	.24	.14	.00	.04	.00	118	5.6	.00	.44	113
28	e.56	.11	.24	e.14	.00	.09	.00	88	5.0	.00	.44	121
29	e.33	.11	.24	e.17	---	.04	.00	793	5.3	.00	.44	84
30	e.17	.11	.44	.17	---	.04	.00	2790	4.7	.00	.38	92
31	e.11	---	e.44	.14	---	.04	---	1060	---	.00	.38	---
TOTAL	99.64	42.04	28.30	18.76	1.07	1.31	1.00	5606.54	5021.1	19.32	4316.58	6936.92
MEAN	3.21	1.40	.91	.61	.038	.042	.033	181	167	.62	139	231
MAX	57	14	13	8.7	.17	.33	.17	2790	1020	9.6	2700	1620
MIN	.00	.00	.11	.14	.00	.00	.00	.00	4.7	.00	.28	.24
AC-FT	198	83	56	37	2.1	2.6	2.0	11120	9960	38	8560	13760
CFSM	.00	.00	.00	.00	.00	.00	.00	.10	.09	.00	.07	.12
IN.	.00	.00	.00	.00	.00	.00	.00	.11	.10	.00	.09	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995h, BY WATER YEAR (WY)

MEAN	256	41.2	33.7	15.2	28.9	29.7	110	369	312	185	173	267
MAX	2640	261	354	129	427	259	1190	2785	1564	1202	2847	2712
(WY)	1927	1985	1992	1992	1992	1955	1941	1941	1967	1960	1972	1955
MIN	.000	.000	.000	.000	.000	.000	.000	.50	1.33	.000	.000	.000
(WY)	1953	1925	1925	1952	1925	1925	1978	1984	1984	1934	1924	1939

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1924 - 1995	
ANNUAL TOTAL	6023.81		22092.58			
ANNUAL MEAN	16.5		60.5		154	
HIGHEST ANNUAL MEAN					525	1941
LOWEST ANNUAL MEAN					16.7	1994
HIGHEST DAILY MEAN	1210	May 13	2790	May 30	55600	Sep 26 1955
LOWEST DAILY MEAN	.00	Mar 24	.00	Oct 1	.00	Jan 15 1924
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 27	.00	Oct 11	.00	Mar 27 1924
INSTANTANEOUS PEAK FLOW			5160	Aug 4	91400	Sep 26 1955
INSTANTANEOUS PEAK STAGE			7.97	Aug 4	29.50	Sep 26 1955
ANNUAL RUNOFF (AC-FT)	11950		43820		111700	
ANNUAL RUNOFF (CFSM)	.009		.032		.083	
ANNUAL RUNOFF (INCHES)	.12		.44		1.12	
10 PERCENT EXCEEDS	14		84		205	
50 PERCENT EXCEEDS	.17		.24		5.8	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
h See PERIOD OF RECORD paragraph.

08080500 DOUBLE MOUNTAIN FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1948 to November 1951, and September 1956 to current year. Chemical and biochemical analyses: June 1978 to September 1993. Sediment analyses: September 1944 to November 1951, and June 1978 to September 1993. Pesticide analyses: March to June 1979.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1948 to November 1951, September 1956 to September 1995 (discontinued).
WATER TEMPERATURE: November 1949 to November 1951, September 1956 to September 1995 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: November 1949 to September 1951.

REMARKS.--Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily 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, 13,100 microsiemens July 29, 1980; minimum daily, 720 microsiemens Oct. 18, 1985.
WATER TEMPERATURE: Maximum daily, 38.0°C July 18, 1966; minimum daily, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum estimated daily, 10,000 microsiemens Mar. 17; minimum daily, 1,220 microsiemens Sept. 19.
WATER TEMPERATURE: Maximum daily, 36.0°C July 7,8,10; minimum daily, 6.5°C Feb. 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
DEC									
15...	1250	0.44	7150	11.5	2400	2300	720	150	840
FEB									
02...	1215	0.23	7700	14.0	2500	2400	720	180	910
APR									
11...	1350	0.04	8730	21.5	2800	2700	790	200	960
JUN									
01...	2000	1940	1580	25.0	550	460	180	25	120
14...	1420	121	1340	29.5	410	340	130	21	110
AUG									
16...	1420	3.1	6710	34.0	2100	2000	620	130	820

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC								
15...	7	4.1	140	1800	1600	0.50	8.5	5210
FEB								
02...	8	12	120	1900	1700	0.50	5.6	5500
APR								
11...	8	14	130	2000	2100	0.50	8.4	6150
JUN								
01...	2	6.1	95	520	140	0.70	11	1060
14...	2	5.4	72	380	140	0.60	8.2	838
AUG								
16...	8	14	97	1800	1400	0.50	11	4850

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.	1994	99.64	2750	1820	489	510	137	650	174	730
NOV.	1994	42.04	4050	2700	307	780	89	940	107	1100
DEC.	1994	28.30	4760	3230	246	990	76	1100	83	1200
JAN.	1995	18.76	5560	3760	191	1200	59	1300	64	1400
FEB.	1995	1.07	8020	5510	16	1800	5.2	1800	5.2	2100
MAR.	1995	1.31	8710	6010	21	2000	7.0	1900	6.8	2200
APR.	1995	1.00	8470	5830	16	1900	5.2	1900	5.1	2200
MAY	1995	5606.54	2090	1380	20800	370	5670	500	7510	560
JUNE	1995	5021.1	1910	1260	17100	340	4660	450	6150	510
JULY	1995	19.32	5950	4050	211	1300	66	1300	70	1500
AUG.	1995	4316.58	1750	1150	13400	310	3630	420	4870	470
SEPT	1995	6936.92	1750	1150	21500	310	5810	420	7810	470
TOTAL		22092.58	**	**	74400	**	20200	**	26900	**
TD.AVG.		61	1900	1250	**	340	**	450	**	510

08080500 DOUBLE MOUNTAIN FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

FROM DAILY OBSERVER
SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e8000	e8000	e7000	e8000	---	8600	---	1400	7950	3600	7780
2	---	e8500	e8000	e7000	8100	---	8470	---	1300	7950	2080	7770
3	---	---	e8000	e7500	8490	---	8480	---	1400	8350	4040	7800
4	---	---	e8000	e7500	---	---	8180	---	1800	8350	1350	8070
5	---	e4000	e9000	e7500	e8500	---	8190	2500	1830	8360	1830	8050
6	---	e5000	e9000	e7500	8460	---	8550	1450	1530	8160	3030	8090
7	e6000	e6000	e9000	e8000	e8500	7600	8570	4650	2620	8130	3040	8100
8	e4000	e6000	e7000	e8000	e9000	---	e8600	3780	3800	8130	3580	8070
9	e6000	e7000	2000	e8000	e9000	---	---	2450	3970	8350	4590	8060
10	e7000	e8000	e4000	e8000	e8500	---	8860	2120	3620	8240	4590	8030
11	---	e8500	e5000	e8000	e8500	---	8780	2140	1670	---	5930	7550
12	---	---	e6000	e8500	e8000	---	---	3380	3010	---	5920	7550
13	---	---	e6500	e8500	7640	---	---	3350	1800	---	6470	7490
14	---	---	e7000	e8500	7530	---	---	5340	1440	---	6470	7500
15	---	---	7150	e9000	8250	---	---	5360	1500	---	6480	7160
16	---	---	e7500	e9000	8230	---	---	4350	2440	---	6710	7150
17	---	---	e7500	e9000	8220	e10000	7940	4330	3380	---	6840	7580
18	---	---	e8000	e8000	e8500	e9500	---	5920	3380	3790	6770	3450
19	---	e9000	e8000	4000	---	e9000	---	7010	4960	5020	6790	1220
20	e4000	e8000	e8000	3500	---	8620	---	6970	5700	---	e6900	1580
21	e2000	e8000	e8000	e5000	---	8630	---	8040	6450	---	6990	1360
22	e3000	e4500	e8000	e6000	---	8920	---	---	6450	---	7050	1320
23	e4000	e3000	e8500	7060	---	8950	---	---	6810	---	7430	1670
24	e5000	e4000	e8500	7480	---	8860	---	4850	7630	---	7410	1940
25	4000	e5000	e8500	e7500	---	e8900	---	4190	7670	---	7420	2300
26	3500	e6000	e8500	e8000	---	e8800	---	5500	7680	---	7420	2420
27	e4000	e7000	e9000	e8000	---	8620	---	3500	7850	---	7410	2470
28	e5000	e8000	e9000	e8000	---	8560	---	3000	7040	---	7580	2060
29	e6000	e8000	e9000	e8000	---	8390	---	2150	6240	---	7760	e2070
30	e7000	e8000	e8000	e8000	---	8380	---	1900	5450	---	7760	2070
31	e8000	---	e7000	e8000	---	8500	---	1350	---	---	7730	---
MEAN	4910	6640	7570	7520	8320	8760	8470	3980	4060	7560	5770	5260

e Estimated

FROM DAILY OBSERVER
WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	20.5	---	25.0	26.0	---	29.0
2	---	---	---	---	20.5	---	17.0	---	28.0	25.5	23.0	30.0
3	---	---	---	---	14.5	---	16.0	---	25.0	26.0	28.5	30.0
4	---	---	---	---	---	---	16.0	---	20.0	26.0	24.0	29.5
5	---	---	---	---	---	---	16.0	17.0	22.0	24.5	29.0	30.0
6	---	---	---	---	19.5	---	24.0	24.0	25.0	35.0	32.0	28.0
7	---	---	---	---	---	8.5	18.0	23.0	29.5	36.0	34.0	26.0
8	---	---	---	---	---	---	---	21.5	29.0	36.0	34.0	21.0
9	---	---	10.5	---	---	---	---	19.0	30.0	35.5	29.0	19.5
10	---	---	---	---	---	---	19.0	22.0	25.0	36.0	28.5	19.0
11	---	---	---	---	---	---	21.5	22.5	25.0	---	28.5	24.0
12	---	---	---	---	---	---	---	23.0	24.5	---	31.0	25.0
13	---	---	---	---	6.5	---	---	21.0	27.5	---	29.0	24.0
14	---	---	---	---	17.5	---	---	30.0	29.5	---	31.0	23.5
15	---	---	11.5	---	16.5	---	---	33.5	29.0	---	28.5	24.0
16	---	---	---	---	8.5	---	---	24.0	25.0	---	34.0	22.0
17	---	---	---	---	16.5	---	26.0	23.0	26.5	---	31.5	29.0
18	---	---	---	---	---	---	---	29.0	26.5	28.0	32.0	20.5
19	---	---	---	14.5	---	---	---	28.0	29.5	30.0	32.5	23.5
20	---	---	---	14.5	---	28.5	---	26.0	29.0	---	27.0	20.0
21	---	---	---	---	---	29.5	---	25.0	30.0	---	27.5	18.0
22	---	---	---	---	---	26.5	---	---	28.5	---	28.0	17.5
23	---	---	---	14.5	---	26.5	---	---	30.0	---	29.5	20.0
24	---	---	---	11.5	---	26.5	---	21.0	31.0	---	29.0	18.0
25	13.5	---	---	---	---	---	---	16.5	25.5	---	29.5	19.0
26	19.5	---	---	---	---	---	---	25.0	26.5	---	30.0	17.5
27	---	---	---	---	---	10.0	---	24.5	30.0	---	29.0	26.0
28	---	---	---	---	---	12.5	---	24.0	26.5	---	32.5	25.5
29	---	---	---	---	---	24.5	---	18.5	29.5	---	31.0	27.0
30	---	---	---	---	---	24.5	---	16.0	28.0	---	32.0	25.0
31	---	---	---	---	---	22.5	---	19.5	---	---	28.5	---
MEAN	16.5	---	11.0	13.7	15.0	21.8	19.4	23.1	27.2	30.4	29.8	23.7

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 mi², of which 2,634 mi² probably is noncontributing.

PERIOD OF RECORD.--December 1923 to August 1925, June 1939 to current year.
Water-quality records.--Chemical analyses: July 1941 to October 1951, and October 1956 to September 1974. Chemical and biochemical analyses: October 1974 to August 1994. Pesticide analyses: March to June 1979. Sediment analyses: June 1961 to September 1965, and October 1974 to August 1994. Specific conductance and water temperature: October 1948 to October 1951 and October 1956 to September 1982.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. 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. June 15, 1939, to July 13, 1972, water-stage recorder at present site. July 14, 1972, to July 14, 1975, at site 0.1 mi upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. There are no large diversions above station. Some regulation by White River Reservoir (capacity, 44,900 acre-ft), 106 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1913 reached a stage of 14.4 ft, and flood in November 1934 reached a stage of 13.7 ft, from information by local residents.

PEAK DISCHARGE FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.20	4.5	8.5	4.0	4.4	3.0	.56	342	4.8	104	1.5
2	.12	.18	4.4	7.1	4.0	4.4	2.7	.51	218	14	2440	1.3
3	.12	.17	4.4	5.9	3.7	5.3	2.3	.57	145	19	594	.98
4	.12	.28	4.1	5.9	3.1	6.6	4.5	.47	194	5.7	926	.76
5	.14	.98	3.5	5.9	2.8	7.1	11	89	278	11	489	.73
6	.17	1.5	3.2	5.9	2.7	6.5	6.8	707	404	6.8	201	.57
7	117	.51	3.0	5.9	2.8	8.2	4.8	234	461	4.0	103	.41
8	43	.26	3.6	5.9	2.7	11	2.9	141	237	2.7	58	.36
9	7.3	.16	4.0	4.9	2.9	7.6	2.0	84	98	2.1	42	.85
10	3.0	.12	5.0	4.0	3.1	5.3	1.7	41	71	1.6	33	.54
11	2.1	.12	4.4	3.6	2.9	4.3	3.5	26	93	.99	27	1.3
12	1.2	.12	3.9	3.2	2.7	4.5	2.1	19	90	.75	22	.81
13	.76	.13	3.6	3.6	3.1	5.2	1.5	14	78	.64	19	.52
14	.67	.18	3.6	3.2	4.7	12	1.3	10	52	.60	17	2.1
15	1.4	.17	4.0	3.2	6.1	13	1.1	10	40	.58	15	9.8
16	2.5	.12	4.0	3.2	8.5	14	1.1	804	33	.58	13	14
17	1.5	.11	4.0	2.9	19	11	70	248	28	.61	12	15
18	.63	.13	4.0	5.4	15	6.8	39	119	24	28	10	18
19	.33	.68	4.4	13	10	4.8	43	53	21	17	9.5	281
20	14	438	4.4	13	7.4	3.4	93	37	19	3.0	8.4	276
21	13	174	4.0	11	5.7	2.8	17	24	17	5.0	7.6	179
22	2.0	74	4.0	7.8	4.8	2.4	7.4	15	14	5.6	6.5	197
23	.91	36	4.0	5.9	4.1	2.0	5.3	30	13	3.6	5.9	139
24	.64	26	3.6	5.9	3.2	1.9	3.9	286	10	1.1	5.4	92
25	7.1	21	3.6	4.9	3.6	4.4	2.7	90	9.7	.71	4.8	131
26	1.9	18	3.2	4.9	4.3	7.7	1.6	436	8.6	.56	4.3	72
27	.96	13	4.9	4.9	5.1	3.3	.90	1260	7.7	.54	3.8	57
28	.72	9.4	12	4.9	5.1	2.3	.86	296	6.9	.48	3.1	43
29	.60	6.8	18	4.9	---	2.3	.74	383	5.9	.53	2.6	29
30	.41	5.0	17	4.4	---	2.3	.57	925	5.3	.56	2.3	23
31	.35	---	12	4.0	---	2.6	---	544	---	.59	1.9	---
TOTAL	224.78	827.32	166.3	177.7	147.1	179.4	338.27	6927.11	3024.1	143.72	5191.1	1588.53
MEAN	7.25	27.6	5.36	5.73	5.25	5.79	11.3	223	101	4.64	167	53.0
MAX	117	438	18	13	19	14	93	1260	461	28	2440	281
MIN	.12	.11	3.0	2.9	2.7	1.9	.57	.47	5.3	.48	1.9	.36
AC-FT	446	1640	330	352	292	356	671	13740	6000	285	10300	3150

08082000 SALT FORK BRAZOS RIVER NEAR ASPERMONT, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995h, BY WATER YEAR (WY)

MEAN	198	31.6	20.8	13.0	17.7	20.6	73.8	257	260	92.3	111	147
MAX	2210	215	226	134	232	180	1006	2175	1283	642	1054	1605
(WY)	1942	1958	1992	1992	1992	1941	1925	1941	1957	1945	1972	1955
MIN	.059	.010	.11	.13	.007	.042	.26	.22	.013	.031	.024	.10
(WY)	1980	1940	1990	1953	1953	1946	1971	1945	1953	1974	1983	1947

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1924 - 1995h	
ANNUAL TOTAL	9277.86		18935.43			
ANNUAL MEAN	25.4		51.9		103	
HIGHEST ANNUAL MEAN					463	1941
LOWEST ANNUAL MEAN					13.8	1988
HIGHEST DAILY MEAN	1220	May 11	2440	Aug 2	23300	Sep 26 1955
LOWEST DAILY MEAN	.01	Jul 21	.11	Nov 17	.00	Apr 22 1924
ANNUAL SEVEN-DAY MINIMUM	.01	Jul 21	.14	Nov 11	.00	Jun 11 1924
INSTANTANEOUS PEAK FLOW			5240	Aug 2	52200	Sep 25 1955
INSTANTANEOUS PEAK STAGE			6.49	Aug 2	14.92	Sep 25 1955
ANNUAL RUNOFF (AC-FT)	18400		37560		74800	
10 PERCENT EXCEEDS	36		103		128	
50 PERCENT EXCEEDS	3.7		4.9		5.9	
90 PERCENT EXCEEDS	.03		.56		.15	

h See PERIOD OF RECORD paragraph.

08082500 BRAZOS RIVER AT SEYMOUR, TX

LOCATION.--Lat 33°34'51", long 99°16'02", Baylor County, Hydrologic Unit 12060101, on left bank at downstream side of bridge on U.S. Highways 277 and 283, 0.8 mi upstream from Wichita Valley Railway bridge, 1.0 mi southwest of courthouse in Seymour, and at mile 847.4.

DRAINAGE AREA.--15,538 mi², approximately, of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 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.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Small diversions upstream from station for irrigation and for oil field operations. For statement regarding upstream regulation by National Resourc Conservation Service floodwater-retarding structures, see remarks paragraph for station 08080950. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1906 reached about the same stage as the flood in 1955.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 3	0330	11,400	10.53				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	21	49	37	26	19	14	8.7	2270	54	172	e3.1
2	6.2	18	46	38	25	20	13	8.1	1520	58	6000	e2.5
3	5.1	16	42	39	22	21	16	9.2	1200	335	7150	e2.3
4	4.7	22	37	36	22	21	16	7.3	1150	509	4200	e1.8
5	5.0	87	35	35	21	21	15	30	4160	217	5680	e1.6
6	4.1	245	37	33	21	22	15	371	2450	169	3720	1.4
7	23	149	31	30	19	21	16	851	1460	110	1710	1.1
8	259	95	38	30	19	20	12	1440	1180	75	916	.85
9	220	60	72	28	19	20	9.9	645	946	52	601	2.8
10	132	47	39	26	19	19	11	293	652	38	e385	16
11	116	31	76	24	17	20	19	272	490	29	e247	13
12	76	27	64	23	17	28	11	194	1070	23	e153	11
13	52	28	47	21	19	53	9.4	141	1100	20	e123	26
14	38	23	44	21	23	61	8.7	102	675	18	e100	25
15	35	19	40	21	23	184	8.1	76	719	17	e79	8.9
16	28	18	37	20	25	131	8.8	191	520	17	e60	13
17	30	18	34	19	25	115	13	115	320	16	e47	11
18	23	17	31	49	25	91	8.8	519	241	16	e42	42
19	20	21	29	90	24	68	7.0	330	201	28	e27	189
20	26	67	27	60	21	58	10	185	168	189	e20	205
21	528	372	26	58	21	42	11	131	147	152	e18	1120
22	326	500	25	58	20	29	21	99	135	127	e15	1120
23	114	270	25	48	21	20	45	93	121	74	e14	942
24	77	179	25	46	20	17	52	86	150	33	e11	707
25	137	133	23	43	20	39	33	228	188	20	e10	385
26	134	114	22	43	21	54	20	770	127	15	e8.7	295
27	83	98	24	36	19	16	14	2250	93	11	e8.2	242
28	49	86	44	30	18	13	13	2720	80	8.0	e7.6	239
29	35	72	48	29	---	13	11	1570	69	7.0	e7.6	202
30	29	61	38	31	---	14	11	1460	61	9.8	e6.2	179
31	22	---	39	28	---	14	---	3990	---	11	e4.6	---
TOTAL	2644.4	2914	1194	1130	592	1284	472.7	19185.3	23663	2457.8	31542.9	6008.35
MEAN	85.3	97.1	38.5	36.5	21.1	41.4	15.8	619	789	79.3	1018	200
MAX	528	500	76	90	26	184	52	3990	4160	509	7150	1120
MIN	4.1	16	22	19	17	13	7.0	7.3	61	7.0	4.6	.85
AC-FT	5250	5780	2370	2240	1170	2550	938	38050	46940	4880	62570	11920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995, BY WATER YEAR (WY)

MEAN	603	134	92.7	58.8	97.5	97.9	276	847	829	343	387	660
MAX	5545	764	859	434	1481	640	2245	6746	3505	2100	4343	4581
(WY)	1942	1935	1931	1992	1938	1973	1925	1941	1990	1961	1926	1932
MIN	.000	.067	.000	.000	.40	.000	.000	2.88	6.75	.24	.000	.000
(WY)	1929	1940	1925	1929	1926	1925	1928	1937	1953	1970	1954	1931

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1924 - 1995	
ANNUAL TOTAL	42013.51		93088.45			
ANNUAL MEAN	115		255		371	
HIGHEST ANNUAL MEAN					1294	1941
LOWEST ANNUAL MEAN					46.7	1952
HIGHEST DAILY MEAN	4700	May 12	7150	Aug 3	62600	Oct 16 1926
LOWEST DAILY MEAN	.00	Jul 19	.85	Sep 8	.00	Feb 5 1924
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 19	1.6	Sep 2	.00	Mar 6 1924
INSTANTANEOUS PEAK FLOW			11400	Aug 3	95400	Oct 16 1926
INSTANTANEOUS PEAK STAGE			10.53	Aug 3	23.00	Sep 28 1955
ANNUAL RUNOFF (AC-FT)	83330		184600		268800	
10 PERCENT EXCEEDS	191		523		633	
50 PERCENT EXCEEDS	24		34		39	
90 PERCENT EXCEEDS	1.0		10		.00	

e Estimated

08082500 BRAZOS RIVER AT SEYMOUR, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: August 1942 to current year. Chemical and biochemical analyses: October 1974 to September 1977. Sediment analyses: October 1974 to September 1977. Pesticide analyses: April 1975 to August 1977.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 1959 to September 1995 (discontinued).
WATER TEMPERATURES: August 1959 to September 1995 (discontinued).

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 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, 80,400 microsiemens May 24, 1971; minimum daily, 47 microsiemens May 16, 1989.
WATER TEMPERATURES (1959-84, 1988 to current year): Maximum daily, 38.0°C Aug. 1, 1983; minimum daily, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 32,800 microsiemens Apr. 24; minimum daily, 863 microsiemens Aug. 2.
WATER TEMPERATURE: Maximum daily, 34.0° C Aug. 16; minimum 3.0° C Feb. 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JAN									
18...	1035	45	12400	6.5	1400	1200	360	120	2500
MAR									
08...	1325	20	15900	11.5	1900	1800	490	170	3200
APR									
26...	1105	24	30000	19.0	2800	2600	740	220	6200
JUN									
19...	1055	202	6150	27.0	970	860	290	59	980
AUG									
09...	1515	555	3350	30.5	790	700	250	40	410

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JAN								
18...	29	11	150	1200	3800	0.60	2.5	8080
MAR								
08...	32	14	160	1500	5000	0.60	3.6	10500
APR								
26...	51	27	130	2400	10000	0.60	0.70	20100
JUN								
19...	14	11	110	780	1500	0.50	11	3700
AUG								
09...	6	8.4	88	610	680	0.30	11	2060

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.	1994	2644.4	4080	2450	17500	970	6890	590	4200	610
NOV.	1994	2914	7220	4480	35300	1900	15200	870	6870	940
DEC.	1994	1194	11300	7000	22600	3000	9730	1400	4360	*
JAN.	1995	1130	14600	9290	28300	4200	13000	1500	4570	*
FEB.	1995	592	15900	10200	16300	4700	7520	1600	2520	*
MAR.	1995	1284	12900	8220	28500	3700	13000	1400	4690	*
APR.	1995	472.7	22500	15100	19300	7800	9890	1400	1800	*
MAY	1995	19185.3	4860	2920	151000	1100	59000	710	36700	730
JUNE	1995	23663	3300	1960	125000	740	47200	510	32400	520
JULY	1995	2457.8	6160	3750	24900	1500	10100	830	5530	870
AUG.	1995	31542.9	2820	1660	142000	620	52900	440	37400	450
SEPT	1995	6008.35	21600	14600	236000	7500	122100	1300	20900	*
TOTAL		93088.45	**	**	847000	**	367000	**	162000	**
WTD.AVG.		255	5410	3370	**	1500	**	640	**	690

08082500 BRAZOS RIVER AT SEYMOUR, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10500	e9100	e8250	e13100	18000	21400	e17700	24700	e3310	12500	5620	14300
2	e10400	9300	10900	13800	17100	19300	e17600	23200	e3400	e11400	863	e14500
3	10300	e9500	11600	14900	e17000	19300	17500	e22500	3480	10300	4310	e14800
4	10100	e9700	11600	14700	16900	e18500	16700	21900	e2500	4140	e3220	15000
5	e10100	e9700	e11900	e15800	e16800	e17600	16600	9650	e1400	e2800	2130	15100
6	e10000	e2150	12200	17000	16800	16700	17500	5900	1620	e3000	e2270	e15200
7	e2000	2460	e12300	e17500	e16600	16500	17700	e5300	3440	3300	2400	15300
8	2300	4580	e9340	e17900	16500	16500	18000	4710	3220	5470	2460	15300
9	3720	4290	6510	e18300	16100	17100	18000	e5820	e3970	e7480	3350	15200
10	e3490	6220	11900	18700	15600	17700	e17300	e6830	e4620	e9500	4020	e13800
11	3260	e5800	e11200	17700	e15500	17700	16600	7760	5190	11500	e4950	11400
12	3720	5640	10500	16800	e15300	e16700	16600	e8060	3120	12400	5950	9880
13	e6000	e6110	11800	16300	15200	15700	13900	8360	e2910	13300	e7000	8940
14	9140	6680	e12000	e16100	e14600	11800	17900	e7100	2700	14100	8020	e10100
15	e10000	7600	12100	e15900	14100	e5000	18000	e5910	5160	14100	e8740	11200
16	e12700	e8400	10900	15800	13500	6500	e17800	4090	6310	e14000	9480	e11200
17	14500	9220	12200	15500	13500	12800	17700	10500	e6230	e13900	10500	e11300
18	14600	e9450	e11400	e12400	e14000	e12200	17800	10500	e6120	13800	10400	11400
19	e14200	e9400	10700	9410	14600	e11500	18700	e11400	6150	13100	10800	e15800
20	13800	e6850	11200	7180	14400	10900	18700	12300	6880	5600	e11200	20200
21	e1800	4500	e12300	10900	e14400	12900	18200	9400	e7630	4530	11500	e23400
22	2820	2220	13400	e13200	14500	e16400	e23600	e10000	e8380	e3250	11700	e26600
23	e2600	21300	13400	15600	e15100	20000	e28000	e10600	9140	2220	e11900	29700
24	2390	10200	e13400	15600	e16300	e20500	32800	11100	9180	3110	e12100	29700
25	e3500	e10200	e13300	e14500	e17100	e20800	28700	4490	e5200	4720	12200	e17000
26	4780	e10400	13300	13400	e18000	e19000	30000	4810	e5550	e7060	12200	e10500
27	e6200	e9750	11700	16000	19000	18200	25600	5130	6050	e9400	e12800	5900
28	8100	9370	e11700	e17300	e20200	13900	24800	e4080	9560	11700	13500	6500
29	8100	e7950	11700	e18400	---	e16000	e24800	3430	11200	e12000	13600	e6900
30	e8500	6670	11800	19700	---	18000	e24800	2600	12200	e12500	13600	e8850
31	e8900	---	12300	19800	---	17800	---	3200	---	e13000	e14000	---
MEAN	7500	7820	11600	15500	16000	16000	20300	9200	5530	9010	8280	14500
MAX	14600	21300	13400	19800	20200	21400	32800	24700	12200	14100	14000	29700
MIN	1800	2150	6510	7180	13500	5000	13900	2600	1400	2220	863	5900

WTR YR 1995 MEAN 11700 MAX 32800 MIN 863

e Estimated

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	---	---	15.0	4.0	---	25.0	---	21.0	24.0	24.0
2	---	---	8.0	8.0	12.0	5.0	---	18.0	---	---	24.0	---
3	19.0	---	14.0	5.0	---	6.0	18.0	---	24.0	24.0	24.0	---
4	23.0	---	15.0	5.0	15.0	---	19.0	18.0	---	25.0	---	25.0
5	---	---	---	---	---	---	20.0	25.0	---	---	29.0	26.0
6	---	---	17.0	9.0	15.0	---	24.0	18.0	27.0	---	---	---
7	---	20.0	---	---	---	---	16.0	---	28.0	25.0	31.0	25.0
8	15.0	23.0	---	---	3.0	12.0	20.0	20.0	28.0	25.0	29.0	24.0
9	20.0	14.0	8.0	---	15.0	17.0	20.0	---	---	---	30.5	23.0
10	---	13.0	11.0	15.0	12.0	18.0	---	---	---	---	25.0	---
11	21.0	---	---	15.0	---	20.0	20.0	22.0	20.0	25.0	---	23.0
12	13.0	10.0	10.0	13.0	---	---	20.0	---	23.0	25.0	27.0	27.0
13	---	---	8.0	14.0	5.0	16.0	20.0	22.0	---	25.0	---	27.0
14	16.0	17.0	---	12.0	---	16.0	18.0	---	25.0	25.0	26.0	---
15	---	14.0	10.0	---	12.0	---	22.0	---	25.0	26.0	---	28.0
16	---	---	11.0	9.0	12.0	20.0	---	23.0	24.0	---	34.0	---
17	20.0	---	10.0	14.0	4.0	24.0	23.0	22.0	---	---	32.0	---
18	20.0	---	---	7.0	---	---	23.0	18.0	---	32.0	25.0	24.0
19	---	---	18.0	9.0	19.0	---	20.0	---	27.0	30.0	26.0	---
20	27.0	---	13.0	5.0	17.0	14.0	22.0	20.0	23.0	25.0	---	22.0
21	---	13.0	---	9.0	---	14.0	24.0	20.0	---	25.0	27.0	---
22	25.0	11.0	---	---	19.0	---	---	---	---	---	25.0	---
23	---	9.0	12.0	10.0	---	14.0	---	---	30.0	25.0	---	23.0
24	18.0	10.0	---	11.0	---	---	24.0	20.0	28.0	33.0	---	23.0
25	---	---	---	---	---	---	23.0	17.0	---	28.0	33.0	---
26	14.0	---	12.0	17.0	---	---	19.0	20.0	---	---	33.0	---
27	---	---	14.0	16.0	18.0	20.0	24.0	23.0	29.0	---	---	25.0
28	18.0	7.0	---	---	---	14.0	25.0	---	28.0	24.0	26.0	26.0
29	17.0	---	14.0	---	---	---	---	20.0	24.0	---	25.0	---
30	---	10.0	10.0	13.5	---	15.0	---	19.0	24.0	---	25.0	---
31	---	---	10.0	13.0	---	15.0	---	20.0	---	---	---	---
MEAN	19.1	13.2	11.8	10.9	12.9	14.7	21.1	20.5	25.7	26.0	27.6	24.7
MAX	27.0	23.0	18.0	17.0	19.0	24.0	25.0	25.0	30.0	33.0	34.0	28.0
MIN	13.0	7.0	8.0	5.0	3.0	4.0	16.0	17.0	20.0	21.0	24.0	22.0

WTR YR 1995 MEAN 19.2 MAX 34.0 MIN 3.0

08082700 MILLERS CREEK NEAR MUNDAY, TX

LOCATION.--Lat 33°19'45", long 99°27'53", Throckmorton County, Hydrologic Unit 12060101, near right bank at downstream side of bridge on Farm Road 1720, 12.7 mi southeast of Munday, and 24.6 mi upstream from mouth.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--July 1963 to current year.
Water-quality records.--Sediment records: October 1976 to September 1978.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,350 ft above mean sea level, from topographic map.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1883 occurred June 13, 1930, and exceeded 18.0 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 27	1841	734	12.13				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.12	.00	.00	.00	.00	.00	.00	1.0	.00	11	.00
2	.00	e.06	.00	.00	.00	.00	.00	.00	.32	4.5	58	.00
3	.00	e.00	.00	.00	.00	.00	.00	.00	.11	43	167	.00
4	.00	2.4	.00	.00	.00	.00	.00	.00	.07	85	68	.00
5	.00	e2.7	.00	.00	.00	.00	.00	.00	6.6	27	37	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	59	14	19	.00
7	.07	.00	.00	.00	.00	.00	.00	.00	33	20	11	6.3
8	.00	.00	.00	.00	.00	.00	.00	.00	5.4	7.8	2.4	.00
9	.00	.00	5.1	.00	.00	.00	.00	.00	2.8	5.4	.79	.00
10	.00	.00	7.6	.00	.00	.00	.00	.00	8.5	2.6	.20	.00
11	.00	.00	e1.2	.00	.00	.00	.00	.00	81	1.2	.11	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	135	.38	.05	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	37	.12	.01	.01
14	.00	.00	.00	.00	.00	.00	.00	.00	16	.07	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	13	.05	.00	.00
16	.10	.00	.00	.00	.00	.00	.00	.00	10	.03	.00	.00
17	496	.00	.00	.00	.00	.00	.00	.00	8.1	.02	.00	.02
18	196	e.12	.00	.00	.00	.00	.00	.00	5.5	3.7	.00	4.0
19	12	e.26	.00	.00	.00	.00	.00	.00	2.5	6.8	.00	21
20	e11	.00	.00	.00	.00	.00	.00	.00	.98	9.5	.00	33
21	e7.4	.00	.00	.00	.00	.00	.00	.00	.28	7.7	.00	10
22	e4.0	.00	.00	.00	.00	.00	.00	.00	.08	6.0	.00	6.3
23	e2.5	.00	.00	.00	.00	.00	.00	5.8	.00	4.2	.00	3.9
24	e1.9	.00	.00	.00	.00	.00	.00	.46	9.2	2.5	.00	1.3
25	e1.5	.00	.00	.00	.00	.00	.00	.23	5.9	1.4	.00	1.2
26	e1.2	.00	.00	.00	.00	.00	.00	1.6	3.2	.74	.00	.71
27	e1.1	.00	.00	.00	.00	.00	.00	4.4	1.2	.36	.00	.30
28	e.58	.00	8.4	.00	.00	.00	.00	1.4	.33	.20	.00	.16
29	e.32	.00	6.9	.00	---	.00	.00	2.0	.08	.13	.00	.12
30	e.27	.00	e.24	.00	---	.00	.00	2.8	.00	.07	.00	.08
31	e.20	---	.00	.00	---	.00	---	2.0	---	.01	.00	---
TOTAL	736.14	5.66	29.44	0.00	0.00	0.00	0.00	21.02	433.15	245.48	369.86	82.10
MEAN	23.7	.19	.95	.000	.000	.000	.000	.68	14.4	7.92	11.9	2.74
MAX	496	2.7	8.4	.00	.00	.00	.00	5.8	135	85	167	33
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1460	11	58	.00	.00	.00	.00	42	859	487	734	163
CFSM	.23	.00	.01	.00	.00	.00	.00	.01	.14	.08	.11	.03
IN.	.26	.00	.01	.00	.00	.00	.00	.01	.15	.09	.13	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	5.21	1.64	.83	1.91	5.42	2.69	6.02	15.1	30.6	2.27	17.1	6.49
MAX	92.7	37.7	13.1	34.8	94.5	25.8	128	182	420	43.4	403	72.1
(WY)	1987	1973	1992	1968	1992	1973	1990	1982	1982	1967	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	1054.71		1922.85			
ANNUAL MEAN	2.89		5.27		7.98	
HIGHEST ANNUAL MEAN					50.7	1982
LOWEST ANNUAL MEAN					.033	1984
HIGHEST DAILY MEAN	496	Oct 17	496	Oct 17	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 8	.00 Aug 2	1963
INSTANTANEOUS PEAK FLOW			734	Oct 17	34600 Aug 4	1978
INSTANTANEOUS PEAK STAGE			12.13	Oct 17	17.53 Aug 4	1978
ANNUAL RUNOFF (AC-FT)	2090		3810		5780	
ANNUAL RUNOFF (CFSM)	.028		.051		.077	
ANNUAL RUNOFF (INCHES)	.38		.69		1.04	
10 PERCENT EXCEEDS	.21		6.8		1.3	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

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 mi².

PERIOD OF RECORD.--December 1961 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,885.09 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. There are several small diversions above station. Several observations of water temperature were made during the year. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since the 1890's, about 22 ft in May and June 1935, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)

No peak greater than base discharge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.35	.58	.69	.61	.71	.61	.59	48	e.50	.52	e.15
2	.25	.35	.58	.70	.62	.71	.66	.62	27	e.50	.61	e.15
3	.24	.35	.60	.77	.60	.70	.67	.60	6.1	e.46	.59	e.14
4	.24	.67	.60	.71	.58	.71	.76	.56	3.1	e.43	1.0	e.14
5	.23	1.2	.59	.71	.58	.71	.83	7.7	1.8	e.44	.86	e.14
6	.22	.66	.59	.73	.58	.73	.84	90	1.5	e.39	.78	e.14
7	.27	.59	.60	.75	.58	.75	.80	26	1.5	e.38	.67	e.13
8	.30	.55	.61	.74	.58	.71	.72	17	1.5	e.38	e.59	.13
9	.29	.54	.62	.71	.59	.71	.67	6.5	1.3	e.38	e.53	.12
10	.27	.54	.62	.66	.60	.71	.66	3.4	.97	e.38	e.48	.13
11	.27	.54	.62	.65	.61	.76	.60	2.5	33	e.36	e.43	.15
12	.27	.54	.62	.65	.67	4.1	.58	1.5	41	e.31	e.38	.17
13	.28	.54	.62	.62	.67	23	.58	1.2	7.4	e.31	e.33	.20
14	.30	.54	.62	.64	.67	2.6	.58	.95	3.8	e.31	e.31	.18
15	.30	.54	.62	.68	.67	1.6	.58	.72	2.3	e.29	e.30	.18
16	.30	.54	.62	.71	.65	1.4	.58	.61	1.5	e.29	.24	.18
17	.30	.53	.60	.67	.60	1.3	.65	.46	1.1	e.29	.21	3.3
18	.30	.54	.59	.87	.60	1.2	.60	.38	.95	e.27	e.19	50
19	.30	.54	.61	.91	.60	.96	.59	.38	.84	e.27	e.19	54
20	.31	.52	.61	.79	.60	.82	.57	.38	.77	e.27	e.19	24
21	.38	.52	.60	.71	.63	.76	.56	.38	.67	e.27	e.19	6.5
22	.37	.52	.60	.69	.67	.74	.54	.42	.64	e.22	e.18	2.9
23	.31	.52	.61	.67	.67	.67	.55	.41	.61	e.21	e.18	1.4
24	.30	.54	.62	.67	.67	.58	.56	.50	.58	e.20	e.17	.97
25	.30	.56	.62	.68	.70	.61	.57	.50	e.56	e.19	e.17	.96
26	.30	.59	.65	.71	.71	.67	.58	.47	e.58	e.18	e.16	.64
27	.30	.58	.74	.71	.74	.63	.56	.63	e.58	e.17	e.16	.58
28	.30	.58	.81	.71	.73	.58	.56	.53	e.58	e.15	e.16	e.51
29	.30	.58	.76	.70	---	.58	.58	22	e.58	e.14	e.16	e.46
30	.32	.58	.74	.63	---	.58	.58	70	e.56	e.13	e.15	e.40
31	.36	---	.73	.61	---	.58	---	20	---	e.13	e.15	---
TOTAL	9.05	16.74	19.60	21.85	17.78	51.87	18.77	277.89	191.37	9.20	11.23	149.05
MEAN	.29	.56	.63	.70	.63	1.67	.63	8.96	6.38	.30	.36	4.97
MAX	.38	1.2	.81	.91	.74	23	.84	90	48	.50	1.0	54
MIN	.22	.35	.58	.61	.58	.58	.54	.38	.56	.13	.15	.12
AC-FT	18	33	39	43	35	103	37	551	380	18	22	296
CFSM	.00	.00	.00	.00	.00	.01	.00	.04	.03	.00	.00	.02
IN.	.00	.00	.00	.00	.00	.01	.00	.05	.03	.00	.00	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	11.4	2.76	2.98	2.91	3.68	3.70	6.50	27.5	15.5	6.28	9.58	21.1
MAX	142	17.6	15.8	12.7	23.9	19.6	51.6	257	84.4	60.6	141	249
(WY)	1966	1987	1987	1987	1992	1987	1981	1982	1981	1975	1971	1969
MIN	.16	.26	.34	.36	.39	.34	.15	.38	.80	.17	.18	.060
(WY)	1980	1965	1990	1965	1990	1965	1965	1962	1984	1994	1989	1965

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	442.94		794.40			
ANNUAL MEAN	1.21		2.18		9.54	
HIGHEST ANNUAL MEAN					29.6	1982
LOWEST ANNUAL MEAN					1.29	1964
HIGHEST DAILY MEAN	39	May 13	90	May 6	3860	Oct 18 1965
LOWEST DAILY MEAN	.11	Jul 10	.12	Sep 9	.00	Apr 24 1963
ANNUAL SEVEN-DAY MINIMUM	.11	Jul 9	.13	Sep 4	.00	Aug 3 1964
INSTANTANEOUS PEAK FLOW			249	May 6	7050	Oct 18 1965
INSTANTANEOUS PEAK STAGE			8.51	May 6	21.52	Sep 19 1969
ANNUAL RUNOFF (AC-FT)	879		1580		6910	
ANNUAL RUNOFF (CFSM)	.005		.010		.042	
ANNUAL RUNOFF (INCHES)	.07		.13		.57	
10 PERCENT EXCEEDS	1.9		1.4		7.2	
50 PERCENT EXCEEDS	.66		.59		1.8	
90 PERCENT EXCEEDS	.22		.20		.39	

e Estimated

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 mi².

PERIOD OF RECORD.--February 1924 to current year.
Water-quality records.--Chemical analyses: August 1948 to September 1953. Chemical and biochemical analyses: February 1968 to September 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.

REMARKS.--No estimated daily discharges. Records good. Flow is affected by four upstream reservoirs with a total capacity of 103,600 acre-ft. There are numerous diversions above station for municipal supply and oil field operation that materially affect streamflow.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1925-38) prior to completion of Fort Phantom Hill Reservoir, 186 ft³/s (134,800 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-38).--Maximum discharge observed, 47,000 ft³/s Sept. 8, 1932 (gage height, 27.05 ft), site then in use, from rating curve extended above 25,000 ft³/s; 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.1	8.1	18	12	15	13	9.3	421	10	69	14
2	4.8	5.5	9.2	14	12	15	12	8.7	304	12	650	11
3	5.2	5.7	9.2	13	12	15	13	9.9	508	21	1290	15
4	6.0	6.2	9.0	12	11	14	13	11	829	5.6	1050	11
5	4.9	18	9.0	11	12	14	24	18	120	4.6	1230	10
6	6.2	22	9.7	11	12	14	64	48	62	4.6	1980	9.3
7	10	29	9.7	11	12	14	45	100	50	5.1	513	7.5
8	6.9	16	10	11	11	14	27	206	34	4.0	124	6.7
9	5.6	11	11	11	11	14	20	122	26	6.3	78	6.2
10	7.7	7.7	9.9	11	11	14	16	48	23	4.3	58	5.7
11	8.0	6.8	10	10	14	14	13	33	101	2.6	47	5.9
12	6.3	6.4	12	11	14	14	12	26	106	1.6	40	6.1
13	6.0	6.7	11	10	14	19	11	19	122	.09	34	15
14	5.9	85	11	10	14	18	10	15	130	.00	30	85
15	6.1	234	10	10	14	33	10	14	50	.03	27	45
16	6.6	96	10	10	14	40	10	13	32	2.4	25	26
17	13	19	9.6	10	14	26	10	12	25	4.4	23	24
18	10	18	9.4	13	14	20	9.8	10	19	1.2	21	320
19	7.2	13	9.4	14	14	17	9.2	9.1	16	3.0	18	819
20	9.6	12	9.9	14	14	15	9.2	7.8	14	2.7	17	340
21	13	9.7	10	26	13	14	8.7	7.0	11	2.3	16	162
22	32	8.2	10	23	13	13	9.1	7.2	10	1.7	15	86
23	51	7.7	9.9	18	13	13	9.1	8.6	10	2.2	15	49
24	16	11	9.6	14	13	13	9.8	11	9.3	1.5	14	35
25	21	12	9.6	13	13	17	10	9.7	8.6	.41	13	29
26	22	10	9.2	13	14	24	9.3	12	7.4	.03	13	24
27	63	12	10	12	14	18	9.3	61	7.8	.22	12	22
28	23	9.8	15	12	16	15	10	27	8.7	2.1	11	21
29	10	8.2	23	12	---	16	9.8	29	8.3	3.7	11	19
30	7.2	7.6	30	12	---	14	9.5	157	9.9	2.3	11	17
31	5.9	---	25	12	---	13	---	459	---	1.3	10	---
TOTAL	405.0	719.3	358.4	402	365	529	445.8	1528.3	3083.0	113.28	7465	2246.4
MEAN	13.1	24.0	11.6	13.0	13.0	17.1	14.9	49.3	103	3.65	241	74.9
MAX	63	234	30	26	16	40	64	459	829	21	1980	819
MIN	4.8	5.1	8.1	10	11	13	8.7	7.0	7.4	.00	10	5.7
AC-FT	803	1430	711	797	724	1050	884	3030	6120	225	14810	4460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995#, BY WATER YEAR (WY)

MEAN	128	35.1	36.9	23.6	60.8	38.2	69.5	249	153	71.8	56.1	102
MAX	1438	516	683	244	1370	389	1159	4694	1385	728	496	610
(WY)	1987	1975	1992	1992	1992	1987	1957	1957	1957	1945	1940	1969
MIN	.000	.56	.090	.032	.046	.010	.017	2.28	1.88	.035	.000	.000
(WY)	1953	1954	1955	1957	1954	1955	1955	1964	1984	1952	1956	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995#	
ANNUAL TOTAL	17755.02		17660.48			
ANNUAL MEAN	48.6		48.4		85.5	
HIGHEST ANNUAL MEAN					662	1957
LOWEST ANNUAL MEAN					9.31	1964
HIGHEST DAILY MEAN	3620	May 13	1980	Aug 6	18800	May 26 1957
LOWEST DAILY MEAN	.57	Aug 31	.00	Jul 14	.00	Aug 10 1946
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 17	1.2	Jul 22	.00	Aug 10 1946
INSTANTANEOUS PEAK FLOW			2200	Aug 6	19500	May 26 1957
INSTANTANEOUS PEAK STAGE			8.52	Aug 6	24.17	May 26 1957
ANNUAL RUNOFF (AC-FT)	35220		35030		61930	
10 PERCENT EXCEEDS	42		59		116	
50 PERCENT EXCEEDS	12		12		12	
90 PERCENT EXCEEDS	4.2		5.8		.70	

Period of regulated streamflow.

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 mi east of Stamford, and 19.4 mi upstream from Paint Creek.

DRAINAGE AREA.--478 mi².

PERIOD OF RECORD.--October 1962 to current year.
Water-quality records.--Specific conductance: October 1962 to September 1979. Water temperature: October 1962 to September 1979.

REVISED RECORDS.--WSP 2122: 1965. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,470 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. There are three small diversions upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, 29.6 ft, present datum, on June 10, 1962, from floodmark; second highest flood in July 1961 (stage unknown); third highest flood in May 1957 (stage unknown) was about equal to flood on June 24, 1915; flood of September 1962 reached a stage of 28.1 ft, present datum; from information by local residents. Another large flood is reported to have occurred in June 1909.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	0400	3,040	23.11	Aug. 6	2100	930	14.37
June 11	1730	835	13.68	Sept. 18	2330	1,560	17.66

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	1.8	2.4	9.2	2.4	2.4	2.0	1.3	129	6.0	5.9	.50
2	.06	1.5	2.1	5.7	2.4	2.5	1.9	1.2	53	2.7	175	.42
3	.05	1.3	2.8	4.2	2.4	3.1	1.9	1.3	25	36	190	.41
4	.05	1.5	3.0	3.3	2.4	2.9	2.6	1.2	52	103	341	.50
5	.05	13	2.9	3.1	2.2	2.8	4.7	7.1	191	20	503	.51
6	.04	3.3	2.9	2.8	2.1	2.6	2.5	15	59	5.3	710	.43
7	.27	1.4	2.2	2.8	2.0	2.5	2.2	15	28	2.0	547	.55
8	.26	1.8	2.1	2.8	1.9	2.4	2.0	29	70	.94	136	.83
9	.18	3.4	9.2	2.8	1.9	2.4	2.5	31	100	.59	44	1.0
10	.18	15	9.0	2.6	2.0	2.3	2.3	20	39	.41	21	1.2
11	.18	2.6	5.8	2.6	2.6	2.1	2.0	11	532	.37	14	1.4
12	.18	1.4	4.5	2.5	2.6	2.3	1.8	4.7	599	.28	8.1	1.4
13	.19	1.1	3.2	2.4	2.6	3.0	1.7	2.9	263	.25	6.6	2.3
14	.20	1.8	2.2	2.4	2.6	4.3	1.7	2.1	91	.22	5.5	3.3
15	.22	1.8	3.1	2.2	3.1	4.5	1.6	1.6	40	.18	4.6	4.0
16	42	1.7	2.1	2.3	2.9	4.4	1.5	1.3	23	.17	3.9	3.6
17	1440	1.6	2.1	2.3	2.9	3.8	3.5	1.2	14	.14	3.3	10
18	59	1.4	1.9	2.8	2.8	3.8	4.1	1.2	9.4	.14	3.0	583
19	16	1.4	1.9	3.6	2.8	3.2	1.8	1.1	6.3	.40	2.6	916
20	204	1.5	1.8	4.8	2.6	2.9	1.3	1.1	3.5	.45	2.6	511
21	230	1.3	1.6	9.2	2.5	2.8	7.4	1.0	2.8	.32	2.2	427
22	32	1.3	1.5	9.5	2.4	2.7	7.6	1.0	2.4	.22	1.8	397
23	13	1.7	1.5	5.5	2.4	2.4	4.4	1.5	1.9	.22	1.6	110
24	7.2	2.1	1.5	3.5	2.3	2.4	3.2	5.5	1.6	.21	1.3	44
25	51	2.0	1.3	3.0	2.1	4.1	2.6	3.4	1.4	.18	1.3	29
26	144	1.9	1.4	2.8	2.4	3.1	2.0	22	1.1	.14	1.2	23
27	88	2.0	1.6	2.7	2.3	2.4	1.7	16	1.0	.15	.98	19
28	25	2.1	3.3	2.4	2.4	2.3	1.4	14	1.0	.21	.90	17
29	9.8	3.0	11	2.4	---	2.0	1.3	7.0	1.8	.25	1.1	15
30	5.2	2.4	15	2.4	---	1.9	1.3	57	6.6	.22	.71	11
31	2.8	---	13	2.4	---	2.1	---	161	---	.27	.50	---
TOTAL	2371.18	80.1	119.9	113.0	68.0	88.4	78.5	439.7	2348.8	181.93	2740.69	3134.35
MEAN	76.5	2.67	3.87	3.65	2.43	2.85	2.62	14.2	78.3	5.87	88.4	104
MAX	1440	15	15	9.5	3.1	4.5	7.6	161	599	103	710	916
MIN	.04	1.1	1.3	2.2	1.9	1.9	1.3	1.0	1.0	.14	.50	.41
AC-FT	4700	159	238	224	135	175	156	872	4660	361	5440	6220
CFSM	.16	.01	.01	.01	.01	.01	.01	.03	.16	.01	.18	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	44.9	16.0	13.0	12.1	38.0	14.9	22.4	84.9	72.1	21.2	66.6	56.1
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	.15	.092	.25	1.15	.15	.000	.000	.017
(WY)	1969	1971	1965	1965	1965	1966	1967	1984	1976	1964	1965	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	6624.96		11764.55			
ANNUAL MEAN	18.2		32.2		38.5	
HIGHEST ANNUAL MEAN					156	1992
LOWEST ANNUAL MEAN					1.95	1964
HIGHEST DAILY MEAN	1440	Oct 17	1440	Oct 17	20400	Aug 4 1978
LOWEST DAILY MEAN	.04	Jul 25	.04	Oct 6	.00	Sep 11 1963
ANNUAL SEVEN-DAY MINIMUM	.05	Jul 24	.08	Oct 1	.00	May 17 1964
INSTANTANEOUS PEAK FLOW			3040	Oct 17	40000	Aug 4 1978
INSTANTANEOUS PEAK STAGE			23.11	Oct 17	31.00	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	13140		23330		27880	
ANNUAL RUNOFF (CFSM)	.038		.067		.081	
10 PERCENT EXCEEDS	9.4		43		31	
50 PERCENT EXCEEDS	2.8		2.4		2.7	
90 PERCENT EXCEEDS	.14		.41		.10	

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 mi².

PERIOD OF RECORD.--December 1923 to current year.
Water-quality records: Chemical analysis: November 1949 to September 1951, November 1967 to September 1979.

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 June 23, 1932, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. There are diversions upstream from station for irrigation, municipal supply, and for oil field operations that materially affect low flow. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1900 reached a stage of 38.0 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	1730	6,960	19.36	Aug. 4	1000	7,690	20.95

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	54	35	44	36	31	35	19	277	14	19	20
2	13	41	36	50	36	31	33	16	608	18	148	18
3	17	35	38	57	36	32	32	15	389	214	795	16
4	19	32	38	56	35	32	31	15	367	112	6120	16
5	18	40	38	52	34	35	31	15	879	86	2830	15
6	19	39	41	47	33	35	31	27	497	120	1870	27
7	25	33	52	43	32	36	31	48	254	80	2770	27
8	23	50	44	42	32	34	35	70	157	50	1520	21
9	19	55	52	42	30	34	87	106	111	33	458	22
10	20	74	59	39	30	33	77	215	144	29	243	38
11	19	52	51	38	34	29	55	163	253	22	171	48
12	22	40	41	37	34	28	44	104	682	16	132	31
13	24	35	39	37	35	34	38	76	777	14	106	76
14	22	42	39	36	35	32	32	54	448	11	91	43
15	22	43	38	36	35	31	32	38	288	8.4	79	29
16	24	69	37	34	35	36	30	31	220	7.8	68	65
17	4570	247	36	33	35	39	29	32	134	6.1	57	109
18	2290	148	36	38	38	40	32	28	95	6.4	49	570
19	276	87	36	45	37	61	33	23	73	8.5	42	1560
20	721	69	35	44	38	53	27	20	59	7.5	38	1960
21	1130	50	33	42	38	44	24	18	49	17	41	1130
22	387	48	32	42	40	39	22	17	41	18	40	706
23	158	42	31	42	36	35	20	15	35	12	35	566
24	89	40	29	40	35	30	20	23	30	9.0	33	304
25	76	39	29	41	34	31	24	31	22	7.9	32	191
26	89	38	28	47	33	37	22	37	17	6.8	29	149
27	140	41	27	48	31	42	20	32	17	6.2	28	117
28	215	42	29	44	31	39	18	31	19	5.4	28	99
29	146	39	36	39	---	40	19	29	18	4.8	27	85
30	105	35	38	38	---	42	19	62	15	3.9	24	77
31	73	---	39	38	---	39	---	67	---	3.7	24	---
TOTAL	10783	1699	1172	1311	968	1134	983	1477	6975	958.4	17947	8135
MEAN	348	56.6	37.8	42.3	34.6	36.6	32.8	47.6	232	30.9	579	271
MAX	4570	247	59	57	40	61	87	215	879	214	6120	1960
MIN	12	32	27	33	30	28	18	15	15	3.7	19	15
AC-FT	21390	3370	2320	2600	1920	2250	1950	2930	13830	1900	35600	16140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995, BY WATER YEAR (WY)

MEAN	276	78.7	89.6	58.0	149	92.1	184	638	463	208	193	350
MAX	2866	1010	1593	689	4268	1066	3098	7312	2992	2278	6071	4665
(WY)	1942	1975	1992	1992	1992	1992	1957	1957	1935	1932	1978	1932
MIN	.000	.000	.000	.000	.000	.000	.000	4.90	.078	.000	.000	.000
(WY)	1935	1944	1944	1950	1950	1928	1952	1960	1974	1952	1934	1931

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1924 - 1995	
ANNUAL TOTAL	51328.13		53542.4			
ANNUAL MEAN	141		147		233	
HIGHEST ANNUAL MEAN					1177	1957
LOWEST ANNUAL MEAN					8.78	1952
HIGHEST DAILY MEAN	6010	May 14	6120	Aug 4	72800	Aug 4 1978
LOWEST DAILY MEAN	.72	Aug 20	3.7	Jul 31	.00	May 25 1927
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 14	5.5	Jul 25	.00	Feb 8 1928
INSTANTANEOUS PEAK FLOW			7690	Aug 4	149000	Aug 4 1978
INSTANTANEOUS PEAK STAGE			20.95	Aug 4	38.88	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	101800		106200		168600	
10 PERCENT EXCEEDS	136		215		322	
50 PERCENT EXCEEDS	38		37		24	
90 PERCENT EXCEEDS	6.2		18		.00	

08086212 HUBBARD CREEK BELOW ALBANY, TX

LOCATION.--Lat 32°43'58", long 99°08'25", Shackelford County, Hydrologic Unit 12060105, on left bank 0.5 mi downstream from Salt Prong Hubbard Creek, 2.8 mi upstream from Newcomb Creek, 4.5 mi upstream from U.S. Highway 180, 9.1 mi east of Albany, 22.6 mi upstream from Hubbard Creek Reservoir, and 35.2 mi upstream from mouth.

DRAINAGE AREA.--613 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,184.99 ft above sea level. Prior to June 12, 1968, water-stage recorder at site 2.1 mi downstream at datum 7.63 ft lower.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 2	1000	4,720	14.19	Sept. 18	1930	3,010	11.47

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

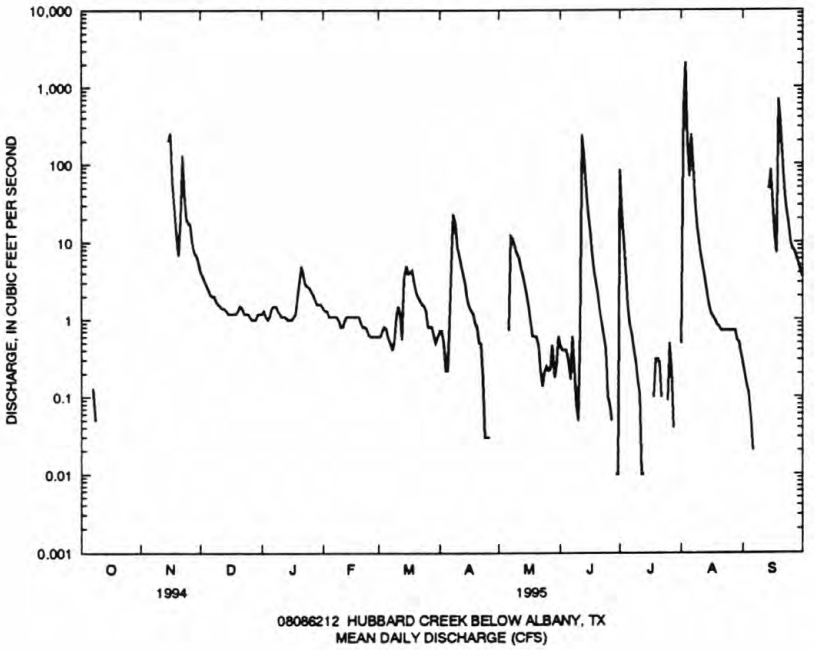
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	3.7	1.3	1.3	.61	.72	.00	.41	23	545	.19
2	.00	.00	3.2	1.1	1.3	.72	.49	.00	.41	11	2060	.14
3	.00	.00	2.8	1.0	1.1	.81	.22	.00	.41	4.4	196	.11
4	.00	.00	2.5	1.1	1.1	.78	.22	.00	.31	1.6	70	.05
5	.00	.00	2.1	1.4	1.1	.59	.92	.73	.17	.89	240	.02
6	.00	.00	2.0	1.5	1.1	.50	4.9	12	.61	.68	90	.00
7	.13	.00	2.0	1.5	1.1	.41	23	11	.23	.45	33	.00
8	.05	.00	1.7	1.3	.97	.52	17	9.1	.08	.28	16	.00
9	.00	.00	1.6	1.2	.81	1.1	8.7	7.4	.05	.16	9.2	.00
10	.00	.00	1.5	1.1	.81	1.5	6.7	6.3	.75	.11	6.6	.00
11	.00	.00	1.4	1.1	1.0	1.2	4.9	5.0	238	.01	4.4	.00
12	.00	.00	1.4	1.1	1.1	.56	3.8	3.7	131	.01	3.1	.00
13	.00	.00	1.3	1.0	1.1	3.4	2.9	2.8	46	.00	2.1	48
14	.00	201	1.2	1.0	1.1	4.9	1.9	2.1	23	.00	1.5	84
15	.00	253	1.2	1.0	1.1	4.0	1.5	1.5	14	.00	1.2	31
16	.00	60	1.2	1.1	1.1	4.1	1.3	.97	7.2	.00	1.1	12
17	.00	24	1.2	1.2	1.1	4.3	1.2	.62	4.2	.10	.96	7.3
18	.00	13	1.2	2.0	1.1	3.1	.90	.61	3.0	.31	.87	692
19	.00	6.8	1.3	3.1	.92	2.3	.80	.61	2.1	.31	.80	344
20	.00	20	1.5	4.9	.81	2.0	.51	.46	1.3	.28	.72	97
21	.00	130	1.4	4.0	.81	1.8	.49	.21	.84	.10	.72	41
22	.00	42	1.2	2.9	.78	1.6	.17	.14	.60	.00	.72	25
23	.00	20	1.2	2.7	.66	1.5	.03	.21	.40	.00	.72	17
24	.00	18	1.2	2.6	.61	1.3	.03	.25	.10	.09	.72	10
25	.00	17	1.1	2.3	.61	.81	.03	.22	.08	.50	.72	8.1
26	.00	10	1.0	2.1	.61	.81	.00	.23	.05	.22	.72	7.7
27	.00	7.3	1.0	1.8	.61	.81	.00	.47	.00	.04	.72	6.4
28	.00	6.7	1.0	1.6	.61	.64	.00	.18	.01	.00	.54	5.1
29	.00	5.5	1.2	1.6	---	.51	.00	.25	.01	.00	.51	4.0
30	.00	4.2	1.2	1.6	---	.62	.00	.61	84	.00	.36	3.5
31	.00	---	1.2	1.4	---	.72	---	.46	---	.49	.27	---
TOTAL	0.18	838.50	48.7	54.6	26.42	48.52	83.33	68.13	559.32	45.03	3289.27	1443.61
MEAN	.006	27.9	1.57	1.76	.94	1.57	2.78	2.20	18.6	1.45	106	48.1
MAX	.13	253	3.7	4.9	1.3	4.9	23	12	238	23	2060	692
MIN	.00	.00	1.0	1.0	.61	.41	.00	.00	.00	.00	.27	.00
AC-FT	.4	1660	97	108	52	96	165	135	1110	89	6520	2860
CFSM	.00	.05	.00	.00	.00	.00	.00	.00	.03	.00	.17	.08
IN.	.00	.05	.00	.00	.00	.00	.01	.00	.03	.00	.20	.09

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

MEAN	105	15.0	54.4	68.8	78.0	40.9	57.5	137	49.5	6.47	134	60.6
MAX	1483	228	1161	1544	1532	243	502	906	268	46.1	3365	1170
(WY)	1982	1975	1992	1968	1992	1992	1968	1969	1989	1992	1978	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1971	1971	1969	1971	1971	1971	1984	1984	1974	1968	1968

SUMMARY STATISTICS	FOR 1995 WATER YEAR		WATER YEARS 1967 - 1995	
ANNUAL TOTAL	6505.61			
ANNUAL MEAN	17.8		67.4	
HIGHEST ANNUAL MEAN			303	1992
LOWEST ANNUAL MEAN			.49	1984
HIGHEST DAILY MEAN	2060	Aug 2	94700	Aug 4 1978
LOWEST DAILY MEAN	.00	Oct 1	.00	Apr 5 1967
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 9	.00	Apr 24 1967
INSTANTANEOUS PEAK FLOW	4720	Aug 2	330000	Aug 4 1978
INSTANTANEOUS PEAK STAGE	14.19	Aug 2	41.41	Aug 4 1978
ANNUAL RUNOFF (AC-FT)	12900		48800	
ANNUAL RUNOFF (CFSM)	.029		.11	
ANNUAL RUNOFF (INCHES)	.39		1.49	
10 PERCENT EXCEEDS	13		46	
50 PERCENT EXCEEDS	.96		1.3	
90 PERCENT EXCEEDS	.00		.00	



08086212 HUBBARD CREEK BELOW ALBANY, TX
MEAN DAILY DISCHARGE (CFS)

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1966 to current year.
WATER TEMPERATURE: October 1966 to current year.

INSTRUMENTATION.--Since December 1970, specific conductance is continuously recorded at this station. Since March 1982, specific conductance and water temperature are continuously recorded at this station.

REMARKS.--Estimated mean specific conductance values and interruptions in the mean temperature values were due to malfunctions of the instrument. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and 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, 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 (1966-80, 1983-current year): Maximum, 37.5°C July 20, 1986; minimum, 0.0°C on several days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 4,090 microsiemens May 19; minimum, 313 microsiemens Sept. 18, 19.
WATER TEMPERATURE: Maximum recorded, 34.5°C July 10, 12; minimum recorded, 4.0°C Jan. 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
DEC									
13...	1111	1.4	872	8.0	220	100	62	17	89
FEB									
01...	1340	1.3	1690	11.5	410	250	110	33	190
APR									
12...	1500	3.5	3000	20.0	710	540	170	69	370
JUN									
15...	0845	15	1910	24.5	440	330	100	46	190
JUL									
18...	1246	0.31	1210	31.5	230	130	58	20	140
AUG									
15...	0842	1.2	620	28.5	170	60	49	12	55

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC								
13...	3	5.1	120	60	170	0.20	7.7	484
FEB								
01...	4	4.9	160	77	340	0.30	4.6	856
APR								
12...	6	5.6	170	360	680	0.30	3.0	1760
JUN								
15...	4	7.0	110	150	430	0.20	6.3	994
JUL								
18...	4	6.1	100	54	270	0.30	7.9	617
AUG								
15...	2	5.4	110	32	100	0.20	12	333

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

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.	1994	0.18	2740	1550	0.8	660	0.3	240	0.1	640
NOV.	1994	838.50	656	370	837	140	325	61	139	170
DEC.	1994	48.7	867	488	64	190	24	82	11	220
JAN.	1995	54.6	1480	836	123	330	49	140	20	370
FEB.	1995	26.42	1920	1080	77	440	31	170	12	470
MAR.	1995	48.52	2350	1330	174	560	73	210	27	560
APR.	1995	83.33	2750	1560	350	670	150	240	53	640
MAY	1995	68.13	3520	2000	367	890	164	290	54	780
JUNE	1995	559.32	1160	652	984	250	385	110	163	290
JULY	1995	45.03	679	382	46	140	17	65	7.9	180
AUG.	1995	3289.27	566	318	2830	120	1060	54	483	150
SEPT	1995	1443.61	784	441	1720	170	655	74	290	200
TOTAL		6505.61	**	**	7600	**	2930	**	1260	**
WTD.AVG.		18	766	431	**	170	**	72	**	190

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	e650	1140	1100	1110
2	---	---	---	---	---	---	---	---	e700	1140	1100	1120
3	---	---	---	---	---	---	---	---	e700	1140	1100	1110
4	---	---	---	---	---	---	---	---	e750	1180	1100	1150
5	---	---	---	---	---	---	---	---	e800	1180	1140	1170
6	---	---	---	---	---	---	---	---	e800	1140	1070	1110
7	2960	2620	2670	---	---	---	---	---	e800	1140	1100	1130
8	2970	2910	2940	---	---	---	---	---	e850	1140	1100	1120
9	---	---	---	---	---	---	---	---	e850	1140	1100	1130
10	---	---	---	---	---	---	---	---	e850	1180	1100	1150
11	---	---	---	---	---	---	---	---	e850	1240	1140	1200
12	---	---	---	---	---	---	---	---	e850	1280	1240	1260
13	---	---	---	---	---	---	---	---	872	1420	1280	1320
14	---	---	---	---	---	e1700	---	---	881	1560	1340	1480
15	---	---	---	---	---	e300	879	878	879	1560	1500	1530
16	---	---	---	---	---	e350	917	878	888	1540	1480	1510
17	---	---	---	---	---	e400	955	878	915	1580	1520	1550
18	---	---	---	---	---	e450	955	878	917	1820	1560	1680
19	---	---	---	---	---	e500	955	916	934	1680	1620	1660
20	---	---	---	---	---	e400	955	916	949	1680	1500	1620
21	---	---	---	---	---	e250	993	916	962	1680	1360	1440
22	---	---	---	---	---	e300	993	953	973	1780	1540	1630
23	---	---	---	---	---	e400	993	954	989	1940	1720	1830
24	---	---	---	---	---	e400	1030	953	993	1740	1540	1620
25	---	---	---	---	---	e450	1030	991	1010	1560	1500	1530
26	---	---	---	---	---	e450	1070	954	1020	1540	1520	1530
27	---	---	---	---	---	e500	1070	1030	1040	1540	1460	1500
28	---	---	---	---	---	e500	1370	1070	1170	1600	1480	1530
29	---	---	---	---	---	e550	1220	1100	1140	1920	1580	1690
30	---	---	---	---	---	e600	1140	1100	1130	2040	1800	1970
31	---	---	---	---	---	---	1140	1070	1100	1900	1760	1830
MONTH	2970	2620	2800	---	---	500	1370	878	910	2040	1070	1430

e Estimated

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1820	1660	1740	2300	2200	2230	2790	2650	2740	---	---	---
2	1700	1620	1670	2300	2220	2280	2790	2730	2760	---	---	---
3	1700	1600	1650	2460	2300	2390	2790	2730	2770	---	---	---
4	1840	1680	1770	2500	2380	2440	2840	2770	2820	---	---	---
5	1840	1740	1800	2380	2220	2300	3100	2740	2850	3740	3670	3700
6	1900	1760	1840	2300	2200	2250	2780	2540	2690	3670	3280	3440
7	1920	1860	1890	2360	2240	2280	2660	2350	2490	3400	3300	3360
8	1980	1820	1930	2360	2260	2310	2820	2640	2710	3470	3170	3350
9	2000	1920	1980	2360	2280	2320	2910	2800	2840	3550	3300	3400
10	1980	1940	1960	2360	2300	2330	2950	2790	2890	3820	3280	3530
11	2280	1880	2030	2320	2280	2300	2930	2810	2840	3900	3550	3690
12	2020	1960	1990	2320	2260	2290	2950	2870	2900	3940	3420	3700
13	2020	1960	2000	3020	1680	2390	3240	2930	3000	3760	3200	3570
14	1980	1860	1930	2360	2200	2280	3100	3010	3050	3760	3650	3720
15	1860	1780	1810	2600	2200	2440	3200	3060	3090	3860	3750	3780
16	1860	1800	1830	2600	2160	2400	3180	3100	3140	3880	3780	3840
17	2040	1860	1980	2400	2160	2250	3260	3160	3190	3950	3840	3910
18	2020	1920	1970	2200	2120	2170	3300	3010	3250	3970	3830	3900
19	1920	1880	1900	2210	2160	2190	3320	3010	3270	4090	3850	3970
20	2020	1900	1970	2330	2210	2250	3370	3240	3290	---	---	e4000
21	2060	1960	2010	2390	2330	2360	3370	3240	3310	---	---	e4100
22	2060	2000	2030	2430	2390	2410	3430	3220	3350	---	---	e4100
23	2060	2000	2030	2430	2390	2410	3590	3100	3370	---	---	e4100
24	2100	2020	2060	2480	2410	2440	3590	3350	3450	---	---	e4000
25	2120	2060	2090	2520	2480	2500	3590	3280	3440	---	---	e4000
26	2120	2080	2110	2620	2500	2520	---	---	---	---	---	e4000
27	2200	2120	2160	2640	2520	2580	---	---	---	---	---	e3800
28	2240	2180	2200	2680	2600	2650	---	---	---	---	---	e3900
29	---	---	---	2730	2640	2690	---	---	---	---	---	e3900
30	---	---	---	2770	2670	2730	---	---	---	---	---	e4000
31	---	---	---	2790	2750	2770	---	---	---	---	---	e4100
MONTH	2280	1600	1940	3020	1680	2390	3590	2350	3020	4090	3170	3810

e Estimated

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	e4100	---	---	650	1760	517	912	920	860	875
2	---	---	e4100	772	570	653	683	372	472	900	860	881
3	---	---	e4100	733	590	644	600	435	528	900	860	885
4	---	---	e4200	735	632	680	642	558	607	920	880	894
5	---	---	e4200	735	694	713	580	538	556	900	860	888
6	---	---	e3800	757	695	731	662	580	620	---	---	---
7	---	---	e3900	---	---	740	724	662	698	---	---	---
8	---	---	e4000	---	---	750	745	641	704	---	---	---
9	---	---	e4100	---	---	780	662	517	587	---	---	---
10	---	---	e3000	---	---	810	559	434	484	---	---	---
11	---	---	e900	---	---	830	517	434	468	---	---	---
12	---	---	e1200	---	---	830	579	517	544	---	---	---
13	---	---	e1500	---	---	---	600	578	583	1110	749	910
14	---	---	e1700	---	---	---	641	599	616	1290	900	1100
15	---	---	1920	---	---	---	660	620	631	1060	631	796
16	---	---	e1900	---	---	---	680	620	643	879	632	766
17	---	---	e1900	---	---	e900	700	640	665	1330	794	970
18	---	---	e1900	---	---	1160	720	640	684	1980	313	994
19	---	---	e1900	1280	953	1080	760	680	719	450	313	395
20	---	---	e2000	1240	952	1070	800	700	760	522	450	489
21	---	---	e2000	1120	953	1010	840	720	787	618	522	569
22	---	---	e2000	---	---	---	860	740	811	642	597	616
23	---	---	e2000	---	---	---	880	800	835	647	602	623
24	---	---	e2000	1080	869	1010	880	800	835	656	607	638
25	---	---	e2000	1100	994	1040	880	800	843	709	656	688
26	---	---	e2100	1100	1030	1070	880	800	838	809	709	752
27	---	---	---	1160	1080	1090	900	840	870	839	785	806
28	2130	2030	2090	---	---	---	920	840	878	869	815	840
29	2310	2070	2160	---	---	---	920	840	882	900	869	879
30	2170	487	1070	---	---	---	900	840	872	955	900	923
31	---	---	---	1370	724	1100	880	840	864	---	---	---
MONTH	2310	487	2540	1370	570	879	1760	372	703	1980	313	790
YEAR	4090	313	1770									

e Estimated

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	10.0	7.0	8.5
2	---	---	---	---	---	---	---	---	---	8.5	5.5	7.0
3	---	---	---	---	---	---	---	---	---	7.0	5.0	6.0
4	---	---	---	---	---	---	---	---	---	6.0	4.0	5.0
5	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
6	---	---	---	---	---	---	---	---	---	9.5	5.0	7.0
7	---	---	---	---	---	---	---	---	---	8.5	5.0	7.0
8	---	---	---	---	---	---	---	---	---	10.5	6.0	8.0
9	---	---	---	---	---	---	---	---	---	11.0	6.5	8.5
10	---	---	---	---	---	---	---	---	---	12.5	8.0	10.0
11	---	---	---	---	---	---	---	---	---	13.5	9.0	11.0
12	---	---	---	---	---	---	---	---	---	13.5	10.5	12.0
13	---	---	---	---	---	---	---	---	e9.5	13.5	10.0	11.5
14	---	---	---	---	---	---	---	---	10.0	13.0	9.0	10.5
15	---	---	---	---	---	---	11.5	10.5	10.5	11.5	7.5	9.5
16	---	---	---	---	---	---	13.0	9.5	11.0	13.0	9.0	11.0
17	---	---	---	---	---	---	12.5	7.5	10.0	13.5	10.5	11.5
18	---	---	---	---	---	---	11.0	7.5	9.5	11.0	9.0	10.0
19	---	---	---	---	---	---	12.5	8.0	10.0	11.5	7.5	9.5
20	---	---	---	---	---	---	14.0	10.0	11.5	11.5	8.0	9.5
21	---	---	---	---	---	---	12.5	8.5	10.5	11.0	9.0	10.0
22	---	---	---	---	---	---	12.0	7.5	9.5	10.0	7.5	9.0
23	---	---	---	---	---	---	10.0	6.5	8.0	9.5	6.0	8.0
24	---	---	---	---	---	---	11.0	7.5	9.0	8.5	6.0	7.5
25	---	---	---	---	---	---	11.0	5.5	8.0	10.0	7.0	8.5
26	---	---	---	---	---	---	9.5	5.5	7.5	13.0	9.5	10.5
27	---	---	---	---	---	---	9.0	7.5	8.5	13.0	9.5	11.0
28	---	---	---	---	---	---	9.0	8.0	8.5	11.0	9.5	10.5
29	---	---	---	---	---	---	11.5	8.0	9.5	9.5	8.0	9.0
30	---	---	---	---	---	---	9.5	7.5	8.5	11.0	7.5	9.0
31	---	---	---	---	---	---	12.5	9.0	10.0	10.5	6.5	8.5
MONTH	---	---	---	---	---	---	14.0	5.5	9.5	13.5	4.0	9.0

e Estimated

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.5	7.5	9.5	12.0	8.0	9.5	19.5	13.0	16.5	---	---	---
2	13.0	8.0	10.5	8.0	5.5	6.0	19.0	13.5	17.0	---	---	---
3	13.5	10.0	11.5	7.0	4.5	5.5	18.0	16.0	17.0	---	---	---
4	12.5	8.0	10.5	7.5	6.5	6.5	18.0	16.0	16.5	---	---	---
5	13.0	8.5	10.5	11.0	7.5	8.5	18.0	16.0	16.5	19.5	18.5	19.0
6	12.5	8.0	10.5	13.0	8.5	10.0	20.5	16.0	18.0	23.0	19.0	21.0
7	11.5	8.0	10.0	13.0	7.5	10.5	21.5	18.0	19.5	22.5	20.5	21.5
8	10.5	6.0	8.5	13.0	6.5	9.5	23.0	18.5	20.5	23.0	19.5	21.5
9	13.0	7.5	10.0	13.5	6.5	10.0	23.5	19.5	21.5	24.5	19.5	22.0
10	15.0	10.0	12.0	12.0	8.0	10.0	22.5	18.5	21.0	25.0	21.0	22.5
11	12.0	8.0	9.5	13.0	10.0	11.5	20.0	15.5	18.0	24.0	20.0	22.0
12	9.0	6.5	8.0	15.0	11.5	14.0	22.0	16.5	19.0	26.0	21.5	23.0
13	8.0	7.5	8.0	15.0	13.5	14.5	21.5	16.0	19.0	29.0	23.0	25.5
14	10.0	7.5	8.5	15.5	12.0	14.0	21.5	18.0	20.0	30.5	24.5	27.0
15	11.5	9.5	10.5	14.5	12.5	14.0	23.5	19.0	21.5	28.5	24.5	26.5
16	10.0	7.5	8.5	17.0	13.0	15.0	25.0	21.0	23.0	27.0	24.0	25.5
17	12.5	6.5	9.5	19.5	13.5	16.5	25.5	21.0	24.0	27.5	22.5	24.5
18	11.5	7.5	9.5	19.5	14.0	17.0	26.0	19.0	22.0	28.0	20.5	24.0
19	15.0	9.0	11.5	21.0	16.0	18.5	23.5	19.0	20.5	29.0	20.0	24.0
20	16.0	9.0	12.0	21.5	17.0	19.0	22.5	17.0	20.0	25.5	21.0	23.5
21	14.5	10.0	12.5	22.0	16.5	19.5	23.0	16.5	19.5	26.0	22.0	24.0
22	15.0	11.5	13.5	23.0	19.0	21.0	21.0	15.0	17.0	26.5	23.0	24.5
23	19.5	11.5	15.0	23.0	18.5	21.0	17.0	13.5	15.0	26.0	23.0	24.5
24	17.0	13.5	15.5	21.5	18.5	20.0	21.5	13.0	16.5	25.0	22.0	23.5
25	15.5	13.5	14.0	20.5	18.5	19.5	19.0	14.0	17.0	22.0	20.5	21.5
26	18.0	13.5	15.5	21.5	17.0	19.0	---	---	---	24.0	21.0	22.5
27	20.5	14.5	17.0	21.0	15.5	18.0	---	---	---	26.5	21.5	24.0
28	19.0	12.0	14.5	17.5	13.5	15.5	---	---	---	30.5	21.5	25.0
29	---	---	---	17.0	13.0	14.5	---	---	---	24.5	21.0	22.5
30	---	---	---	15.5	13.0	14.0	---	---	---	25.5	20.5	22.5
31	---	---	---	19.5	12.5	15.5	---	---	---	28.5	21.0	23.5
MONTH	20.5	6.0	11.5	23.0	4.5	14.0	26.0	13.0	19.0	30.5	18.5	23.5

08086212 HUBBARD CREEK BELOW ALBANY, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	31.0	20.5	25.0	25.0	22.5	23.5	26.0	24.0	24.5	---	---	e27.0
2	28.5	23.5	26.0	26.5	24.0	25.0	25.0	24.0	24.5	---	---	e27.0
3	27.0	24.0	25.5	28.0	23.5	25.5	26.5	25.0	26.0	---	---	e28.0
4	26.5	24.0	25.5	28.0	23.5	26.0	28.5	26.0	27.0	---	---	e28.0
5	27.5	23.5	25.5	30.5	24.5	27.0	28.0	26.5	27.0	---	---	e29.0
6	29.0	23.5	26.5	32.5	26.0	28.5	29.5	27.0	28.5	---	---	---
7	29.5	26.0	28.0	31.0	25.5	28.0	32.0	28.0	29.5	---	---	---
8	30.0	27.0	28.5	31.5	26.0	28.5	31.0	28.0	29.5	---	---	---
9	28.5	26.5	27.5	30.5	26.5	28.5	31.0	28.0	29.5	---	---	---
10	30.5	24.0	27.0	34.5	26.5	29.5	31.0	27.0	29.0	---	---	---
11	25.5	23.5	24.0	33.0	26.5	29.0	32.0	27.5	29.5	---	---	---
12	24.5	23.0	23.5	34.5	26.5	29.5	31.5	28.0	30.0	---	---	---
13	27.0	23.5	25.0	---	---	---	32.0	28.5	30.0	26.0	25.0	25.0
14	27.5	23.0	25.0	---	---	---	32.5	28.5	30.5	25.0	23.5	24.0
15	28.0	24.0	26.0	---	---	---	---	---	29.0	25.0	23.0	24.0
16	28.0	24.0	26.0	---	---	---	---	---	e29.0	25.5	23.5	24.5
17	28.5	24.5	26.5	33.5	29.5	31.0	---	---	e29.0	27.5	25.0	26.0
18	29.5	25.0	27.0	31.0	27.0	29.0	---	---	e28.0	---	---	26.0
19	29.5	25.0	27.5	31.5	26.0	27.5	---	---	e29.0	---	---	---
20	29.5	25.0	27.5	29.0	26.0	27.5	---	---	e29.0	---	---	---
21	30.0	24.5	27.5	30.0	26.5	28.0	---	---	e30.0	---	---	---
22	31.5	24.5	27.5	---	---	---	---	---	e29.0	---	---	---
23	32.0	25.0	28.0	---	---	---	---	---	e28.0	---	---	---
24	33.5	25.5	29.0	29.0	28.5	29.0	---	---	e27.0	---	---	---
25	32.5	25.5	28.5	30.0	27.0	28.5	---	---	e28.0	---	---	---
26	28.5	25.0	26.0	30.5	27.5	29.0	---	---	e28.0	---	---	---
27	---	---	---	29.5	27.5	28.5	---	---	e28.0	---	---	---
28	29.0	26.5	28.0	---	---	---	---	---	e28.0	---	---	---
29	33.5	25.0	28.5	---	---	---	---	---	e28.0	---	---	---
30	28.0	22.5	24.5	---	---	---	---	---	e28.0	---	---	---
31	---	---	---	27.5	25.5	26.5	---	---	e27.0	---	---	---
MONTH	33.5	20.5	26.5	34.5	22.5	28.0	32.5	24.0	28.5	27.5	23.0	26.0
YEAR	34.5	4.0	19.0									

e Estimated

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1962 to current year. Prior to October 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.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--According to information from State Department of Highways and Public Transportation, the floods of May 16, 1949, July 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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 1	1500	6,290	23.48				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.10	.92	.09	.13	.15	.11	.09	.17	3780	.15
2	.00	.00	.07	.69	.08	.13	.15	.11	.07	.01	1260	.15
3	.00	.00	.07	.57	.06	.13	.13	.18	.05	6.8	133	.15
4	.00	.00	.06	.44	.05	.13	.12	.12	.05	.21	212	.15
5	.00	.00	.04	.37	.04	.13	34	.83	.06	.01	410	.15
6	.00	.00	.04	.31	.04	.13	68	60	.08	.00	32	.15
7	.00	.00	.04	.25	.05	.12	29	15	.04	.00	16	.15
8	.00	.00	.04	.21	.05	.09	14	6.1	.03	.00	7.6	.15
9	.00	.00	.04	.16	.05	.09	6.0	3.8	.02	.00	3.9	.15
10	.00	.00	.04	.13	.05	.17	3.1	2.8	5.3	.00	2.1	.15
11	.00	.00	.05	.13	.11	.21	1.7	1.3	642	.00	1.3	.21
12	.00	.00	.05	.13	.08	.23	.95	.65	83	.00	1.4	.22
13	.00	.00	.05	.13	.09	6.9	.66	.34	15	.00	.92	533
14	.00	61	.13	.10	.08	18	.45	.16	3.8	.00	.61	93
15	.00	96	.21	.07	.05	14	.30	.09	.91	.00	.52	27
16	.00	12	.19	.04	.05	11	.17	.07	.24	.00	.52	8.9
17	.00	2.6	.14	.04	.06	4.0	.14	.06	.07	8.6	.50	2.7
18	.00	.82	.12	.21	.07	1.9	.13	.05	.01	.41	.34	175
19	.00	.42	.09	.72	.07	1.0	.13	.05	.00	.07	.34	580
20	.00	45	.07	.95	.07	.70	.11	.05	.00	.00	.34	113
21	203	34	.05	.57	.07	.56	.10	.05	.00	.00	.33	23
22	9.8	7.2	.04	.52	.07	.46	.11	.05	.00	.00	.21	9.1
23	1.5	2.1	.04	.48	.07	.38	.11	.05	.00	.00	.21	3.7
24	.39	9.6	.04	.33	.15	.32	.11	.04	.00	4.1	.21	1.5
25	.12	13	.05	.23	.15	.29	.11	.04	.00	1.7	.21	.79
26	.09	3.9	.05	.21	.15	.27	.11	.04	.00	.02	.15	.55
27	.04	1.2	.05	.16	.13	.19	.11	.09	.00	.00	.15	.35
28	.03	.60	.07	.11	.12	.13	.11	.04	.00	.00	.15	.27
29	.02	.31	.11	.10	---	.15	.11	.04	8.3	.00	.15	.22
30	.01	.16	.14	.09	---	.15	.11	.04	9.9	.00	.15	.18
31	.00	---	.97	.09	---	.15	---	.05	---	14	.15	---
TOTAL	215.00	289.91	3.25	9.46	2.20	62.24	160.48	92.40	769.02	36.10	5865.46	1574.19
MEAN	6.94	9.66	.10	.31	.079	2.01	5.35	2.98	25.6	1.16	189	52.5
MAX	203	96	.97	.95	.15	18	68	60	642	14	3780	580
MIN	.00	.00	.04	.04	.04	.09	.10	.04	.00	.00	.15	.15
AC-FT	426	575	6.4	19	4.4	123	318	183	1530	72	11630	3120
CFSM	.02	.03	.00	.00	.00	.01	.02	.01	.09	.00	.68	.19
IN.	.03	.04	.00	.00	.00	.01	.02	.01	.10	.00	.78	.21

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	56.5	12.3	17.9	20.4	25.5	25.4	30.8	68.6	33.0	5.89	19.9	22.2
MAX	1151	155	342	547	455	255	209	414	129	51.4	211	109
(WY)	1982	1965	1992	1968	1992	1992	1990	1965	1982	1962	1978	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1971	1971	1971	1962	1966	1980	1984	1964	1964	1980	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	6846.55		9079.71			
ANNUAL MEAN	18.8		24.9		28.2	
HIGHEST ANNUAL MEAN					114	1992
LOWEST ANNUAL MEAN					2.47	1988
HIGHEST DAILY MEAN	2580	May 12	3780	Aug 1	28100	Oct 13 1981
LOWEST DAILY MEAN	.00	Jul 12	.00	Oct 1	.00	Feb 1 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 18	.00	Oct 1	.00	Feb 1 1962
INSTANTANEOUS PEAK FLOW			6290	Aug 1	i80000	Oct 13 1981
INSTANTANEOUS PEAK STAGE			23.48	Aug 1	a28.60	Oct 13 1981
ANNUAL RUNOFF (AC-FT)	13580		18010		20450	
ANNUAL RUNOFF (CFSM)	.067		.089		.10	
ANNUAL RUNOFF (INCHES)	.91		1.21		1.37	
10 PERCENT EXCEEDS	6.8		9.7		14	
50 PERCENT EXCEEDS	.07		.13		.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 analyses: November 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1975 to current year.
WATER TEMPERATURE: November 1975 to current year.

INSTRUMENTATION.--Since March 1982, specific conductance and water temperature are continuously recorded at this station.

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 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. Prior to November 1975, this station was published as 08086300 Big Sandy Creek near Breckenridge.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 28,700 microsiemens Apr. 5, 10, 1976; minimum, 95 microsiemens Oct. 13, 1981.
WATER TEMPERATURE: Maximum, 37.0°C Aug. 9, 1987, July 16, 1989; minimum, 0.0°C Jan. 9, 10, 1977, Dec. 2, 3, 1985.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 16,000 microsiemens May 5; minimum, 123 microsiemens July 31, Aug. 1.
WATER TEMPERATURE: Maximum, 36.0°C June 8; minimum, 2.5°C Mar. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
DEC									
12...	1241	0.05	2850	5.0	580	450	180	32	370
FEB									
01...	0920	0.09	6200	5.5	1100	960	330	73	930
APR									
12...	1150	1.0	2080	15.0	410	270	120	26	240
JUN									
13...	0930	15	320	22.0	95	19	32	3.7	21
JUL									
18...	0933	0.52	776	26.5	170	74	52	8.7	78
AUG									
14...	1312	0.56	3210	29.0	660	500	200	38	400

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC								
12...	7	5.6	130	180	790	0.20	7.1	1640
FEB								
01...	12	5.0	160	440	1800	0.20	4.9	3680
APR								
12...	5	6.2	140	120	500	0.20	4.2	1100
JUN								
13...	0.9	5.4	76	15	36	0.20	7.1	166
JUL								
18...	3	6.6	92	35	150	0.20	11	397
AUG								
14...	7	6.4	160	170	850	0.20	14	1780

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

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.	1994	215.00	391	203	118	98	57	24	14	79
NOV.	1994	289.91	743	390	305	190	147	45	35	150
DEC.	1994	3.25	5220	2960	26	1500	13	320	2.8	980
JAN.	1995	9.46	4620	2560	65	1300	32	280	7.2	880
FEB.	1995	2.20	10600	6370	38	3300	19	650	3.9	*
MAR.	1995	62.24	2800	1550	260	770	129	170	29	540
APR.	1995	160.48	2500	1360	588	670	289	150	66	490
MAY	1995	92.40	2440	1330	333	660	164	150	37	470
JUNE	1995	769.02	589	315	655	150	319	36	74	120
JULY	1995	36.10	854	449	44	220	21	52	5.0	170
AUG.	1995	5865.46	224	116	1840	56	886	14	214	45
SEPT	1995	1574.19	1910	1050	4480	520	2220	120	494	370
TOTAL		9079.71	**	**	8800	**	4300	**	981	**
WTD.AVG.		25	660	357	**	180	**	40	**	130

FROM ADR

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	968	893	926	4040	2900	3520
2	---	---	---	---	---	---	1000	930	977	4630	4040	4350
3	---	---	---	---	---	---	1170	1000	1070	5540	4630	5020
4	---	---	---	---	---	---	1290	1080	1160	6050	5520	5780
5	---	---	---	---	---	---	1450	1210	1270	5840	5780	5820
6	---	---	---	---	---	---	1510	1280	1380	5790	5010	5340
7	---	---	---	---	---	---	1640	1490	1540	5150	4560	4840
8	---	---	---	---	---	---	1770	1530	1620	4800	4390	4600
9	---	---	---	---	---	---	1900	1730	1800	4510	4330	4420
10	---	---	---	---	---	---	2440	1860	2010	5040	4460	4700
11	---	---	---	---	---	---	3490	2380	2770	5100	4920	5040
12	---	---	---	---	---	---	4320	2870	3730	5170	5010	5060
13	---	---	---	---	---	---	4800	4280	4610	5900	5140	5370
14	---	---	---	4340	310	1710	7270	4800	5680	6180	5410	5590
15	---	---	---	503	310	435	6830	5110	5730	6580	6090	6320
16	---	---	---	483	425	438	5450	2030	3840	7040	6430	6680
17	---	---	---	502	425	461	3930	2890	3330	7590	6820	7050
18	---	---	---	597	482	541	3660	2460	3390	8930	6790	7840
19	---	---	---	674	597	649	4880	3100	3620	8490	3640	5660
20	---	---	---	1230	346	705	3690	2910	3150	3640	3160	3260
21	1610	299	388	461	346	386	4390	3180	3890	3660	3370	3540
22	477	358	417	422	345	378	4790	3390	4230	3920	3320	3500
23	636	477	538	536	403	450	5180	4730	4880	5020	3920	4530
24	714	616	667	689	459	522	6010	5110	5510	5030	4750	4900
25	793	694	732	651	363	409	6370	6010	6220	4790	4250	4500
26	832	773	801	496	401	449	6560	6300	6420	4360	4230	4280
27	910	832	878	610	496	559	6860	6540	6620	4700	4360	4470
28	909	870	895	724	610	664	8260	6630	7360	4950	4650	4780
29	928	889	913	856	723	784	9360	7320	8500	5500	4840	5150
30	946	907	934	894	856	877	9850	9280	9640	5880	5440	5620
31	---	---	---	---	---	---	10700	2720	7310	6160	5820	5970
MONTH	1610	299	716	4340	310	613	10700	893	4010	8930	2900	5080

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

FROM ADR

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6420	6160	6320	10100	9790	9900	6240	5380	6000	14400	13500	13900
2	6650	6420	6540	11200	9940	10200	6040	5560	5650	15000	14300	14500
3	7780	6530	6890	11700	11200	11500	6340	5640	6080	15400	13900	14700
4	8160	7130	7670	12000	11500	11700	6740	6040	6370	15900	14900	15300
5	8770	7380	7990	12100	11400	11700	6740	1240	4830	16000	11800	15200
6	9260	8390	8700	12500	11700	12000	2060	1080	1520	11800	767	2720
7	9720	8440	9030	13400	12300	12500	3620	1800	2550	1190	844	996
8	9900	9030	9330	13300	12300	12800	1880	1020	1270	1510	1190	1400
9	10800	9570	10400	14500	13000	13800	1700	1180	1490	1490	1360	1410
10	11100	10400	10700	15200	14400	14800	1840	1700	1790	1570	1470	1490
11	12200	10300	10900	15200	12800	14200	1980	1800	1850	1660	1550	1590
12	12900	12100	12600	13500	11000	12500	2180	1980	2080	1850	1640	1770
13	12800	12600	12700	11500	4360	6580	2430	2180	2310	2510	1850	2140
14	12800	11800	12500	6250	1070	1720	3480	2430	2740	2680	2420	2490
15	12500	9080	11400	2060	1660	1880	3620	3480	3560	3020	2680	2830
16	11400	9360	10600	1960	1720	1820	4160	3610	3780	3300	2900	3080
17	12100	11300	11700	2300	1960	2120	5570	4160	4550	3510	3230	3370
18	11900	11700	11800	2700	2300	2480	6130	5400	5630	3820	3430	3590
19	13000	11400	11900	3000	2700	2790	6580	5960	6300	4240	3670	3890
20	13000	11900	12700	3200	2980	3040	7300	6390	6840	4460	4040	4250
21	13300	12600	12900	3300	3140	3200	7800	6930	7370	4970	4320	4570
22	13300	11400	12200	3560	3300	3380	8550	7500	7980	5090	4600	4860
23	12400	11000	11400	3820	3560	3750	9150	8240	8500	6160	4980	5290
24	11900	10800	11400	4080	3740	4000	9780	8810	9140	6280	5430	5920
25	11900	11400	11600	4460	3960	4210	10200	9270	9790	6920	5950	6380
26	11800	9640	10800	4680	4200	4540	11000	9860	10400	7340	6570	6840
27	9950	9300	9530	4560	4200	4460	11900	10600	11100	8540	6990	8020
28	9790	9260	9510	5440	4460	5000	12400	11400	11900	8780	7860	8180
29	---	---	---	5640	5020	5360	13800	12300	12800	9700	8440	8870
30	---	---	---	5020	4800	4920	14000	12600	13300	10600	8970	9670
31	---	---	---	5400	4840	5070	---	---	---	11300	9530	10100
MONTH	13300	6160	10400	15200	1070	7030	14000	1020	5980	16000	767	6110

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11900	10500	11100	1060	791	962	388	123	182	11100	10100	10500
2	12100	11000	11400	1220	1060	1150	280	167	217	11400	10500	10800
3	12500	11500	11900	1680	268	586	421	238	345	11600	10800	11100
4	12900	11700	12100	960	555	764	473	180	410	11900	11100	11300
5	12700	11900	12400	1310	960	1200	567	203	336	11900	11200	11600
6	13500	12300	12900	---	---	---	579	367	487	12800	11800	12100
7	13600	13000	13200	---	---	---	842	579	736	13400	12400	12800
8	13800	13300	13500	---	---	---	1060	842	943	13900	12600	13000
9	14000	13600	13700	---	---	---	1350	1060	1190	14100	13400	13700
10	14200	322	12300	---	---	---	1670	1350	1490	14200	13100	13700
11	2050	242	514	---	---	---	2040	1670	1830	14500	12200	13900
12	322	261	284	---	---	---	2530	2040	2300	14900	13700	14300
13	359	281	323	---	---	---	3000	2530	2770	14600	161	4940
14	458	359	411	---	---	---	3900	3000	3340	443	282	334
15	656	458	532	---	---	---	4360	3600	3890	343	282	314
16	852	615	671	---	---	---	5120	4140	4530	444	343	386
17	1050	852	933	4710	568	1760	5610	4800	5100	668	444	516
18	1170	1050	1130	775	586	688	6140	5340	5590	972	223	638
19	---	---	---	899	695	823	6850	5750	6070	405	182	256
20	---	---	---	---	---	---	7190	6460	6640	284	203	245
21	---	---	---	---	---	---	7960	6990	7240	387	264	320
22	---	---	---	---	---	---	8350	7450	7710	571	387	474
23	---	---	---	---	---	---	8670	7830	8070	796	571	687
24	---	---	---	1060	204	567	8760	8140	8330	1080	796	940
25	---	---	---	286	184	231	8760	8400	8540	1410	1060	1230
26	---	---	---	245	204	222	8900	8290	8430	1810	1390	1520
27	---	---	---	---	---	---	9260	8530	8890	2040	1810	1950
28	---	---	---	---	---	---	9760	9100	9240	3390	2020	2560
29	5430	135	1890	---	---	---	10000	9360	9640	4110	3130	3350
30	791	135	564	---	---	---	10200	9650	9910	4250	3930	4080
31	---	---	---	1290	123	594	10700	10100	10300	---	---	---
MONTH	14200	135	6590	4710	123	796	10700	123	4670	14900	161	5780
YEAR	16000	123	5420									

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.0	4.5	6.0	9.0	6.0	7.5
2	---	---	---	---	---	---	10.5	7.5	8.5	6.5	3.5	5.0
3	---	---	---	---	---	---	12.5	10.0	11.0	5.5	4.0	5.0
4	---	---	---	---	---	---	12.5	10.5	11.5	6.0	3.5	4.5
5	---	---	---	---	---	---	12.0	9.5	11.0	5.0	3.0	4.0
6	---	---	---	---	---	---	14.0	11.0	12.5	9.5	4.5	6.0
7	---	---	---	---	---	---	14.0	11.5	12.5	7.0	4.5	6.0
8	---	---	---	---	---	---	12.0	10.0	11.0	9.5	6.0	7.5
9	---	---	---	---	---	---	10.0	7.0	8.0	9.5	5.0	7.5
10	---	---	---	---	---	---	7.5	5.5	6.5	12.0	8.0	9.5
11	---	---	---	---	---	---	8.5	6.0	7.5	12.0	8.0	10.0
12	---	---	---	---	---	---	8.0	6.0	7.0	13.0	10.5	11.5
13	---	---	---	---	---	---	8.5	7.5	8.0	12.0	9.0	10.5
14	---	---	---	16.0	14.0	15.0	11.5	8.5	10.0	10.0	6.0	8.0
15	---	---	---	14.0	13.0	13.5	11.5	11.0	11.0	10.0	6.0	8.5
16	---	---	---	13.0	10.5	12.0	11.5	9.0	10.5	12.5	8.5	10.5
17	---	---	---	16.0	11.5	13.5	9.5	7.5	8.5	12.5	10.5	11.5
18	---	---	---	14.5	11.0	12.0	9.5	6.5	8.5	11.5	8.5	10.0
19	---	---	---	16.0	12.5	14.0	11.0	8.0	9.5	10.5	6.0	8.5
20	---	---	---	16.5	13.5	15.0	11.0	9.0	10.0	10.5	6.0	8.0
21	23.0	20.5	21.5	14.0	12.0	13.0	10.0	7.0	8.5	12.0	8.5	10.0
22	22.5	18.5	20.5	13.0	11.5	12.5	9.5	4.5	7.5	9.5	7.0	8.5
23	21.5	18.5	19.5	12.0	9.5	10.5	8.5	6.0	7.5	9.5	4.0	6.5
24	22.0	19.0	20.5	10.5	9.0	9.5	9.5	8.0	8.5	8.5	4.5	6.5
25	20.5	14.5	17.5	12.0	10.0	11.0	9.5	9.0	9.0	10.0	5.0	8.0
26	15.0	11.5	13.5	13.0	11.0	12.0	9.0	7.5	8.5	13.5	9.0	10.5
27	15.0	13.5	14.0	14.0	11.5	13.0	9.5	8.5	9.0	12.5	9.0	10.5
28	16.5	14.0	15.0	11.5	8.0	9.5	9.5	8.5	9.0	11.5	9.0	10.0
29	17.0	14.0	15.5	11.0	6.5	8.0	12.5	9.0	10.0	9.5	7.0	8.0
30	19.0	16.5	17.5	7.0	4.0	5.5	10.0	8.5	9.5	10.0	5.0	7.0
31	---	---	---	---	---	---	13.0	9.0	11.0	10.0	5.0	7.5
MONTH	23.0	11.5	17.5	16.5	4.0	11.5	14.0	4.5	9.5	13.5	3.0	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.0	5.5	8.0	9.5	5.0	7.0	18.5	11.5	15.0	26.5	21.5	24.0
2	11.5	6.5	9.0	5.0	2.5	3.5	19.5	12.0	15.5	23.0	18.5	20.0
3	13.5	9.5	11.0	7.0	3.0	5.5	18.5	15.5	17.0	25.0	16.5	20.0
4	12.5	7.0	10.0	9.5	6.5	7.5	18.0	16.0	17.0	24.0	21.0	22.5
5	11.5	7.0	10.0	10.5	7.5	9.0	19.0	16.0	17.0	23.0	19.0	21.0
6	12.5	7.0	10.0	14.5	10.0	11.5	20.5	15.5	18.0	21.0	18.5	20.0
7	12.0	7.0	9.5	14.0	8.0	10.5	23.0	17.5	20.0	23.5	20.5	21.5
8	9.0	4.5	7.0	11.5	5.0	8.5	24.5	18.5	21.5	25.0	19.0	21.5
9	13.5	7.5	10.0	12.5	6.5	9.5	26.5	20.0	23.0	26.0	18.5	22.0
10	14.5	11.0	12.5	14.5	8.5	12.0	23.0	17.0	21.0	26.0	19.0	22.0
11	14.0	7.5	10.0	18.0	13.0	15.0	19.5	13.0	16.5	23.5	18.0	21.0
12	9.0	6.0	8.0	17.0	15.0	16.0	22.5	14.0	17.5	26.5	20.0	22.5
13	9.0	8.0	8.5	16.0	14.0	14.5	21.5	14.5	17.5	29.0	22.5	25.0
14	12.0	8.0	9.5	14.0	12.0	13.0	22.5	16.0	19.0	30.5	23.5	26.5
15	13.0	11.5	12.0	14.0	12.5	13.0	23.5	18.0	20.5	29.0	24.5	26.5
16	12.0	8.0	9.5	16.5	12.5	14.5	25.0	20.5	22.5	27.5	24.5	26.0
17	12.5	7.5	9.5	20.0	13.0	16.0	27.0	22.0	24.0	28.0	23.5	25.5
18	12.5	8.5	11.0	21.5	14.0	17.5	25.0	18.0	21.5	27.5	21.0	24.0
19	14.0	9.0	11.5	22.5	15.5	19.0	22.0	18.0	20.0	27.0	19.0	23.0
20	14.5	8.0	11.5	23.0	16.5	19.5	23.0	17.0	20.0	28.0	20.5	24.0
21	15.5	12.0	14.0	23.5	15.5	19.0	23.5	16.0	19.5	29.0	22.5	25.0
22	16.5	13.5	15.0	24.5	19.5	21.5	22.0	15.0	18.0	29.0	23.5	26.0
23	18.5	13.5	16.0	24.5	17.5	20.5	15.0	12.5	13.5	27.5	24.0	25.5
24	18.5	13.5	16.5	22.5	18.0	20.0	18.5	10.5	14.5	25.0	23.0	24.0
25	16.5	14.5	15.5	20.5	18.5	19.5	21.0	13.5	17.0	23.5	21.5	22.0
26	19.0	15.0	16.5	20.5	17.0	18.5	23.5	16.5	19.0	28.0	21.5	24.0
27	18.5	15.5	17.5	20.5	13.0	17.0	21.0	16.0	18.5	29.5	23.0	26.0
28	17.5	9.5	13.0	17.5	13.5	15.0	22.0	17.0	19.0	29.5	23.0	26.0
29	---	---	---	16.5	12.5	14.0	27.5	19.5	22.5	27.0	22.5	24.5
30	---	---	---	15.5	12.0	13.5	27.5	21.0	24.0	25.0	21.0	23.0
31	---	---	---	19.0	12.0	15.0	---	---	---	28.0	22.0	24.5
MONTH	19.0	4.5	11.5	24.5	2.5	14.0	27.5	10.5	19.0	30.5	16.5	23.5

08086290 BIG SANDY CREEK ABOVE BRECKENRIDGE, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.0	21.0	25.0	27.5	22.5	24.5	24.5	23.0	24.0	30.5	25.5	27.5
2	32.5	25.0	28.5	28.0	23.5	25.5	26.5	24.0	25.0	30.5	25.0	27.5
3	30.5	26.5	28.5	28.5	22.0	25.0	28.0	26.0	27.0	30.5	26.0	28.0
4	31.5	26.5	29.0	30.5	24.0	27.0	29.0	25.5	27.5	30.5	26.0	28.0
5	32.5	26.0	29.0	28.0	24.5	26.0	28.0	25.0	26.5	31.5	26.5	28.5
6	34.5	26.5	29.5	---	---	---	30.0	26.0	28.0	31.0	26.5	28.5
7	35.5	29.0	31.5	---	---	---	31.5	27.0	29.0	30.0	27.0	28.5
8	36.0	29.5	32.0	---	---	---	32.0	27.0	29.5	29.0	25.5	27.5
9	32.5	29.5	31.0	---	---	---	32.0	26.5	29.0	28.0	23.5	25.0
10	34.0	23.5	30.0	---	---	---	32.0	25.5	28.5	26.0	22.0	23.5
11	25.5	21.0	23.0	---	---	---	33.0	26.5	29.0	27.0	23.5	25.5
12	24.0	20.5	22.5	---	---	---	32.0	26.5	29.0	28.5	25.0	26.5
13	26.5	21.5	24.0	---	---	---	32.0	26.5	29.0	27.0	20.5	22.5
14	28.0	22.0	25.0	---	---	---	33.5	27.0	29.5	22.5	21.5	22.0
15	29.5	23.0	25.5	---	---	---	30.5	26.5	28.5	25.0	22.0	23.5
16	28.0	23.0	25.0	---	---	---	33.0	26.0	29.0	26.5	23.5	24.5
17	26.5	22.5	24.5	30.5	25.5	28.0	33.5	26.5	29.5	28.5	25.0	26.0
18	25.5	23.0	24.0	30.0	26.0	27.5	33.5	27.0	29.5	25.5	22.5	24.5
19	---	---	---	28.0	24.5	26.0	33.0	26.5	29.5	23.5	22.5	23.0
20	---	---	---	---	---	---	32.5	27.0	29.5	23.5	22.0	22.5
21	---	---	---	---	---	---	33.5	27.5	30.0	22.0	18.0	21.0
22	---	---	---	---	---	---	32.5	27.5	29.5	19.5	16.5	18.0
23	---	---	---	---	---	---	32.0	27.0	29.0	20.0	16.0	18.0
24	---	---	---	26.0	23.0	24.0	31.5	26.0	28.0	22.0	16.5	19.0
25	---	---	---	29.5	23.0	25.5	29.5	26.5	28.0	20.5	18.5	19.5
26	---	---	---	28.0	25.5	26.5	31.5	26.0	28.5	22.0	18.0	19.5
27	---	---	---	---	---	---	30.0	26.5	28.0	23.5	18.5	20.5
28	---	---	---	---	---	---	31.5	26.0	28.5	26.0	21.0	23.0
29	27.0	22.5	24.0	---	---	---	30.5	26.5	28.5	25.0	22.0	24.0
30	26.0	22.5	24.0	---	---	---	31.0	26.0	28.5	25.5	22.5	24.0
31	---	---	---	28.0	24.5	26.5	31.0	26.0	28.0	---	---	---
MONTH	36.0	20.5	27.0	30.5	22.0	26.0	33.5	23.0	28.5	31.5	16.0	24.0
YEAR	36.0	2.5	18.0									

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX

LOCATION.--Lat 32°49'53", long 98°58'03", Stephens County, Hydrologic Unit 12060105, on left bank just upstream from dam on Hubbard Creek, 1.4 mi upstream from U.S. Highway 183, 6.5 mi northwest of Breckenridge, and 12.6 mi upstream from mouth.

DRAINAGE AREA.--1,085 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--October 1962 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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

REMARKS.--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 September 1962 and the dam was completed in December 1962. The emergency spillway is a 2,000-foot-wide cut through natural ground near the left end of dam. The service spillway is a partially controlled morning-glory type, with 12 lift gates designed to discharge 30,000 ft³/s with a 17.5-foot head through a 22.0-foot-diameter concrete conduit. The dam is the property of the West Central Texas Municipal Water District. Figures given herein represent total contents. Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	1,208.0	-
Crest of emergency spillway	1,194.0	515,800
Top of gates	1,185.1	350,900
Top of conservation pool	1,183.0	317,800
Crest of spillway	1,176.6	230,100
Sill of gate	1,138.0	5,580
Lowest gated outlet (invert)	1,136.0	3,470

COOPERATION.--The capacity table was furnished by the West Central Texas Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 441,200 acre-ft Oct. 14, 1981, for several hours (elevation, 1,190.22 ft); minimum since normal operating level was reached in May 1969, 157,400 acre-ft Oct. 1, 1984 (elevation, 1,169.89 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 261,500 acre-ft Sept. 20 at 1400 hours (elevation, 1,179.06 ft); minimum, 239,500 acre-ft July 30 (elevation, 1,177.36 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,169.0	149,100	1,180.0	274,200	1,187.0	382,800
1,174.0	199,700	1,183.0	317,800	1,189.0	418,600
1,177.0	235,000	1,185.0	349,300	1,191.0	456,100

REVISIONS.--Revised figures of contents for water years 1990 to 1994, superseding those published in previous reports are given below.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	311800	297600	293200	294200
2	---	---	---	---	---	---	---	---	311600	297000	293200	294000
3	---	---	---	---	---	---	---	---	311000	296400	293500	293700
4	---	---	---	---	---	---	---	---	311200	295700	295700	293400
5	---	---	---	---	---	---	---	326800	311200	295400	299000	293200
6	---	---	---	---	---	---	---	322600	310600	295400	299500	292900
7	---	---	---	---	---	---	---	318400	309800	294700	299500	292600
8	---	---	---	---	---	---	---	316900	310200	294100	299500	292100
9	---	---	---	---	---	---	---	316300	309700	293500	299500	291900
10	---	---	---	---	---	---	---	316300	308800	293200	299200	291500
11	---	---	---	---	---	---	---	316300	308500	292200	299200	291200
12	---	---	---	---	---	---	---	316300	308500	293200	298600	290900
13	---	---	---	---	---	---	---	316600	307600	292500	298300	290900
14	---	---	---	---	---	---	---	316300	307000	292100	297900	290900
15	---	---	---	---	---	---	---	316800	306200	292200	297900	290800
16	---	---	---	---	---	---	---	315100	306000	294000	297700	290500
17	---	---	---	---	---	---	---	315000	305400	294100	297300	290800
18	---	---	---	---	---	---	---	315000	304900	294700	296700	290800
19	---	---	---	---	---	---	---	314800	304800	294500	296800	290500
20	---	---	---	---	---	---	---	314500	304200	294500	296700	290500
21	---	---	---	---	---	---	---	313900	303400	294500	296600	294000
22	---	---	---	---	---	---	---	313800	302400	294800	296300	294000
23	---	---	---	---	---	---	---	313400	302400	294800	296100	293700
24	---	---	---	---	---	---	---	313400	301900	295100	296100	293700
25	---	---	---	---	---	---	---	313300	300800	295100	296000	293500
26	---	---	---	---	---	---	---	312700	300300	295000	296000	293500
27	---	---	---	---	---	---	---	311800	299800	294800	295700	293400
28	---	---	---	---	---	---	---	311500	299200	294400	295400	293200
29	---	---	---	---	---	---	---	311400	298400	293700	295100	292800
30	---	---	---	---	---	---	---	310800	298200	293200	295000	292500
31	---	---	---	---	---	---	---	310400	---	293200	294700	---
MAX	---	---	---	---	---	---	---	---	311800	297600	299500	294200
MIN	---	---	---	---	---	---	---	---	298200	292100	293200	290500
(+)	---	---	---	---	---	---	---	1182.51	1181.68	1181.34	1181.44	1181.29
(@)	---	---	---	---	---	---	---	+28400	-12200	-5000	+1500	-2200

WTR YR 1990 MAX 341600 MIN 215500 (@) +61500

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292200	286700	286700	282700	286700	284800	281200	275200	277400	302800	294500	298700
2	292200	286500	286500	282700	286700	284200	281200	275200	e278000	302200	294400	298600
3	292500	286200	286200	282500	287200	284100	280800	275800	e284800	301600	294500	298000
4	292200	286700	286000	282500	287200	284500	280800	275800	301500	301600	294500	297400
5	292200	286700	286000	282500	287200	284500	281000	275600	302400	301100	294700	297900
6	292100	286600	284900	282800	287200	283900	280300	275600	302700	301100	294500	297400
7	291200	286000	284900	282800	287000	283900	279100	275600	304700	300800	294200	299200
8	291200	287300	285200	282800	286900	284200	279000	278700	305200	300200	294100	298700
9	291200	287700	285200	284800	286900	283900	278600	e278600	305900	299600	293500	298600
10	291200	287900	285200	284900	286900	284100	278300	e278600	306200	299200	293500	298200
11	290800	287900	285300	284900	286900	283900	278400	e278600	306400	298700	297400	298000
12	290500	287900	285200	285100	287000	283800	278400	e278600	305800	297900	300900	297700
13	290500	287900	284400	285500	287000	282900	279000	e278400	305900	297900	302500	302200
14	290000	287900	284600	285500	286000	282800	278900	e278400	305500	297400	303100	307400
15	290000	288000	284600	285500	285900	282500	278900	e278400	306100	297300	303100	307400
16	290000	287700	284800	285300	286000	282400	278700	e278400	306100	296600	302900	307300
17	289300	287500	284800	285100	286200	282400	278600	e278400	307400	296600	302500	307700
18	289000	287600	285100	285900	286000	282400	278300	e278600	307000	296600	302500	306700
19	288900	287600	285100	286900	285500	282500	277900	e278600	307000	296100	302100	307300
20	287900	287700	284200	286500	285500	282700	277600	e278600	307100	295100	302100	308200
21	287600	287700	283400	286500	285500	282700	277300	e278600	306700	294800	301100	307000
22	287600	287700	283100	286900	285800	281800	277000	e279100	306400	294800	300600	305900
23	287600	287700	283100	286900	286000	282000	276900	278300	305600	294400	300600	306100
24	287500	287700	283100	286900	285500	282200	276700	278600	305600	293400	300600	305900
25	287300	287700	283100	286900	285200	282200	277200	278600	305200	293500	300300	306100
26	287300	288000	283100	286700	285200	282400	277400	278400	304700	294500	300300	305900
27	287300	287600	283100	287000	285200	282500	276700	278100	304400	294800	299600	305500
28	287000	287300	283500	287300	285200	281700	276300	277700	303700	295300	299300	305600
29	287000	287000	282900	286000	---	281100	276000	277000	303500	295000	298900	305500
30	286900	287000	282700	286600	---	281100	275300	277200	302700	294800	298900	305500
31	286700	---	282700	286700	---	281400	---	277400	---	294700	298700	---
MAX	292500	288000	286700	287300	287200	284800	281200	279100	307400	302800	303100	308200
MIN	286700	286000	282700	282500	285200	281100	275300	275200	277400	293400	293500	297400
(+)	1180.89	1180.91	1180.60	1180.89	1180.78	1180.51	1180.08	1180.23	1181.99	1181.44	1181.72	1182.18
(@)	-5800	+300	-4300	+4000	-1500	-3800	-6100	+2100	+25300	-8000	+4000	+6800

CAL YR 1990 MAX 341600 MIN 215500 (@) +66300
WTR YR 1991 MAX 308200 MIN 275200 (@) +13000

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305500	307900	305300	310400	309200	300900	304300	302100	298400	300500	297000	300200
2	305500	306700	306100	309400	309400	298000	304400	301800	300300	299800	297300	302200
3	305800	307100	305900	308900	309700	297100	305200	301800	299800	299900	297900	302500
4	304000	307100	305900	308900	321400	302400	305200	301300	298900	300500	297900	302800
5	304000	307100	306100	309100	317200	297300	305000	301300	299000	300500	297900	303100
6	304100	307300	306200	309200	312200	296400	304400	300900	298900	300000	297900	303100
7	304100	306100	306400	309700	310300	297400	303700	300900	299000	299800	297900	303100
8	303800	307000	306700	309500	309700	298000	302800	300600	301600	299200	297400	302700
9	303400	306800	306700	309500	309400	299200	303700	300500	299600	298900	297000	302700
10	303400	306500	307000	310000	308300	299900	303700	300500	298200	298400	296700	302500
11	303400	306100	309200	309800	308300	300600	304000	299800	300300	298000	296300	302500
12	302800	306500	309700	309100	308900	300900	303500	299800	300300	297900	296000	302900
13	302900	307100	309400	307400	309500	301900	304000	299800	300000	297300	296000	302900
14	302400	307000	309400	307400	309400	301800	304300	300200	299600	296700	295000	302900
15	301800	306800	309800	308500	308500	302500	304000	300200	298600	295100	295000	302500
16	302200	307400	310000	308200	307400	302900	304100	300200	298200	294700	295000	302500
17	302200	307300	309700	307400	307700	303100	306700	300200	297900	294700	294700	301900
18	301300	307300	310000	308200	307600	303200	305900	300200	297900	294800	294200	301600
19	300900	306700	312500	308800	307600	303100	305900	301100	297900	295000	295100	301600
20	300900	306500	348800	309200	307700	303700	305900	301100	296700	294800	295500	301300
21	301100	307000	346300	309400	308300	303800	305600	301200	297700	295800	295300	301100
22	300800	306100	331300	309100	308800	303200	305600	301200	298000	295500	295300	300800
23	300800	306100	320300	308600	309400	303500	304300	301600	299600	295500	294700	300300
24	300600	305900	317300	309100	321500	303400	302800	301600	300000	295500	294700	300000
25	300900	305900	314200	309400	342900	304000	302200	301900	299800	295500	294200	300200
26	304700	305900	308900	310300	332800	304300	302200	299300	299800	295300	293800	299500
27	309800	306400	310100	310600	319800	304400	301900	298600	299800	294700	293400	299000
28	312800	306500	309700	308300	308800	304700	302400	300200	300000	294800	293400	298700
29	309200	306100	310000	307100	301200	304700	301600	300500	300300	294400	292900	298300
30	307700	304900	309700	308300	---	304400	302100	299900	300000	293100	292500	298300
31	307700	---	310400	308600	---	304900	---	299200	---	296300	295500	---
MAX	312800	307900	348800	310600	342900	304900	306700	302100	301600	300500	297900	303100
MIN	300600	304900	305300	307100	301200	296400	301600	298600	296700	293100	292500	298300
(+)	1182.33	1182.14	1182.51	1182.39	1181.89	1182.14	1181.95	1181.75	1181.81	1181.55	1181.50	1181.69
(@)	+2200	-2800	+5500	-1800	-7400	+3700	-2800	-2900	+800	-3700	-800	+2800

CAL YR 1991 MAX 348800 MIN 275200 (@) +27700
WTR YR 1992 MAX 348800 MIN 292500 (@) -7200

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297900	293100	291100	292500	293400	297100	291900	286900	283200	280300	268100	260700
2	298000	292600	290600	293100	293700	297600	291200	287000	282900	279800	267600	260700
3	298000	291800	290600	293500	293700	297600	290200	287000	282800	279700	267600	260300
4	297400	291100	289700	292900	293100	297600	288700	287200	282200	278600	267400	260000
5	297400	291100	289600	292900	292600	297600	288200	287000	281800	278100	267300	259500
6	297400	290600	290200	292900	292500	297900	288000	287300	281800	277900	266600	259500
7	296300	290300	290000	292900	293500	297900	288000	287000	281500	277400	266400	259300
8	296300	290200	290200	293100	293200	298300	288000	286700	281100	277000	266400	258700
9	296000	290500	290200	292800	293200	297900	288000	286900	282400	276600	266100	258700
10	295500	290500	289700	292900	293500	297600	287900	286900	283100	276300	265800	258500
11	295500	290200	289700	292900	293200	296700	287700	287000	284200	276000	265200	258500
12	295700	290200	290000	292800	292900	296700	287700	286600	284200	275500	265200	258100
13	295500	290000	290900	292800	293200	296700	287700	286600	284200	275000	264600	259100
14	295100	290000	292200	292800	292900	297000	287500	286000	284200	274600	264200	259800
15	294500	290000	292600	292800	293800	296900	287500	286000	283600	274500	263900	259800
16	294100	289600	292800	292800	294000	296700	287500	286000	283200	274100	263700	259500
17	293800	289600	292800	292800	293400	296300	287600	285600	283500	273500	263100	259100
18	293800	292200	293100	292500	294000	297000	287600	285300	283200	273500	262700	259300
19	293800	292200	292600	292900	294200	297100	287300	285300	283400	273100	262200	259300
20	293800	292100	292800	293500	294800	297100	286500	284900	282800	272700	261900	259000
21	293800	292100	293100	293500	294100	297100	286500	284900	282800	272300	261500	259000
22	293400	292600	293100	293500	294400	297300	286000	284500	282700	272000	261200	258700
23	293400	292800	292800	293100	293800	297700	285900	284500	282800	271800	260600	258700
24	293100	292100	292600	293100	294800	297700	286000	284500	282700	271100	260000	258300
25	292900	291600	292600	293100	295500	297700	285500	284200	282100	270700	260000	258300
26	292900	291300	292600	293700	295300	297600	285500	283900	282200	270100	259800	257900
27	292400	291200	292600	293200	295300	297400	285500	283900	282200	269700	259400	257900
28	292800	291200	293200	293200	295800	297600	285900	283500	281800	269300	259100	257400
29	292800	291100	293200	292500	---	296300	286700	283500	281100	269300	259000	257400
30	292500	290600	293500	292900	---	294800	286700	283900	281100	268900	260200	256900
31	292800	---	292100	293400	---	293500	---	283500	---	268500	260700	---
MAX	298000	293100	293500	293700	295800	298300	291900	287300	284200	280300	268100	260700
MIN	292400	289600	289600	292500	292500	293500	285500	283500	281100	268500	259000	256900
(+)	1181.31	1181.16	1181.26	1181.35	1181.52	1181.36	1180.89	1180.66	1180.49	1179.58	1179.00	1178.71
(@)	-5500	-2200	+1500	+1300	+2400	-2300	-6800	-3200	-2400	-12600	-7800	-3800

CAL YR 1992 MAX 342900 MIN 289600 (@) -18300
WTR YR 1993 MAX 298300 MIN 256900 (@) -41400

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256600	255300	252300	250700	248900	248000	244400	241300	277900	269500	262500	255100
2	255900	255300	252300	250600	248900	248400	244100	241000	277900	268900	261900	255900
3	256400	255300	253800	250600	248900	248300	243800	241000	277700	268400	261900	255500
4	256400	255100	253600	250400	248900	248300	243600	241400	277300	268100	261400	255200
5	256400	254800	253600	250200	248900	248300	243300	241400	277000	267700	260800	254900
6	256400	254500	253400	250100	248800	248300	243200	241300	276700	267900	260800	254500
7	255700	254300	253400	250000	248800	247900	242900	241000	276500	267600	260300	254500
8	255700	254000	253800	249700	248100	247600	242800	241000	276300	267300	260300	254800
9	254700	254000	253800	249800	248100	247500	242900	241300	276000	267000	260000	254800
10	254700	254000	253500	249800	248100	247300	242900	241800	275800	267600	259700	254400
11	254800	254100	253200	249800	247700	247200	243400	245600	275900	267900	259400	254400
12	255100	254400	252800	250000	247700	247200	243400	262500	275800	267600	259400	254400
13	255500	254100	252400	249800	247700	247200	243400	271200	275500	267300	259000	254100
14	255500	253900	252300	249400	247700	247500	243200	273700	274800	266900	258200	253800
15	255500	253600	252200	249200	247900	247500	242800	273900	274500	266900	258200	253600
16	255500	254400	252200	249200	247900	247200	242800	274200	274300	266500	257900	253500
17	256200	254400	251900	249200	247700	247300	242800	274200	274100	266000	257600	253500
18	256100	254100	251900	249000	247700	247500	242400	273900	273800	266000	257300	253000
19	257900	253900	251900	248800	247600	247500	242400	273700	273500	265600	257000	253000
20	258500	253900	251700	248500	247600	247100	241900	273500	273400	265000	256200	252600
21	257700	253800	251700	248500	248100	246800	241900	273400	273100	264500	256100	252600
22	257700	253500	251700	249600	248400	246800	241800	273100	272800	264500	256100	251700
23	257700	253800	251500	249600	248600	246700	241800	273000	272600	264100	255900	251100
24	257700	252700	251400	249800	248300	246100	241600	273000	272200	263800	255900	251000
25	257300	252400	251400	250100	248100	245700	241400	273000	271900	263400	255500	250900
26	257000	252400	251400	249700	248000	245500	241200	273800	271200	262600	255200	250900
27	256800	252400	251000	249300	248000	245600	240800	274600	271000	262200	254700	250900
28	256400	252400	250900	249000	248000	245300	241000	274600	270400	262200	254100	250400
29	255900	252400	250900	249000	---	245000	241700	274900	270100	261600	253900	250400
30	255600	252300	251000	249000	---	244700	241300	276700	269700	262500	253600	250000
31	255600	---	250900	248900	---	244800	---	277900	---	262500	254400	---
MAX	258500	255300	253800	250700	248900	248400	244400	277900	277900	269500	262500	255900
MIN	254700	252300	250900	248500	247600	244700	240800	241000	269700	261600	253600	250000
(+)	1178.61	1178.36	1178.25	1178.10	1178.03	1177.78	1177.50	1180.26	1179.67	1179.13	1178.52	1178.18
(@)	-1300	-3300	-1400	-2000	-900	-3200	-3500	+36600	-8200	-7200	-8100	-4400

CAL YR 1993 MAX 298300 MIN 250900 (@) -41200
WTR YR 1994 MAX 277900 MIN 240800 (@) -6900

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

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249700	247000	251000	249800	249600	247600	247900	244300	243600	243900	252200	253500
2	249600	246700	251300	249800	249600	247600	247900	244300	243600	245100	258100	253400
3	249400	246800	251300	249800	249400	247600	247900	244300	242800	246500	258700	252800
4	249400	246700	251300	249700	249200	247900	248100	244100	242700	246300	259300	252800
5	249300	246800	251100	249700	248900	247900	248600	245700	243300	246200	260400	252700
6	249300	246800	251100	249700	248900	248300	249200	246000	243400	246100	260800	251800
7	249200	246800	250600	249700	248900	247900	249200	246200	243200	246000	260600	251400
8	249000	246700	250500	249700	248900	247700	249200	246500	242800	245600	260200	251100
9	248900	246500	250400	249700	248900	247700	248900	246500	242700	245600	259800	250900
10	248500	246100	250400	249700	248900	247600	248400	246100	246100	245100	259800	250600
11	248300	246100	250400	249700	248900	247300	248100	246100	247500	245100	259300	250900
12	248300	245800	250400	249700	248900	247700	248000	246100	247900	244800	259000	251300
13	248000	245800	250400	249400	248900	248600	247900	246100	247900	244300	259000	251700
14	248000	250000	250400	249400	248900	249200	247700	245700	247300	243700	258500	252100
15	247700	250900	250500	249400	248800	249600	247600	245600	247100	243600	258500	252400
16	247700	251100	250500	249600	248900	249600	247500	245600	247000	243200	258200	252200
17	248300	251100	250500	249800	248900	249600	247300	245100	246500	243100	257800	252800
18	248300	251100	250500	250500	248900	249600	247300	244800	246200	242600	257600	259900
19	248300	251900	250400	250500	248900	249600	247100	244400	246200	242600	257000	261100
20	248600	251900	250400	250500	248900	249400	247100	244200	246000	242400	257000	261500
21	248800	251900	250200	250200	248900	249400	246300	243800	245700	242200	256600	260700
22	248800	251900	250000	250200	248600	249600	245700	243600	245500	242100	256200	260700
23	248800	251800	250000	250200	248600	249400	245700	243300	245100	241400	256100	260400
24	248100	251700	250000	250200	248400	249400	245700	243200	244800	241400	255700	260400
25	248100	251500	249800	250200	248400	249400	245600	243100	244300	241600	255500	260200
26	248100	252100	249800	250100	248400	249200	245300	243200	244100	241200	255200	260200
27	247600	251900	250000	250100	248400	248800	245000	243200	243800	240800	255100	260200
28	247600	251500	250100	249800	247600	248600	244800	243100	243800	240200	254800	260200
29	247200	251100	250000	249600	---	248400	244700	243200	243900	239700	254500	259900
30	247200	251100	250000	249600	---	247900	244600	243400	243900	239500	254000	259600
31	247200	---	249800	249600	---	247900	---	243600	---	241700	253800	---
MAX	249700	252100	251300	250500	249600	249600	249200	246500	247900	246500	260800	261500
MIN	247200	245800	249800	249400	247600	247300	244600	243100	242700	239500	252200	250600
(+)	1177.97	1178.27	1178.17	1178.15	1178.00	1178.02	1177.76	1177.68	1177.71	1177.53	1178.47	1178.92
(@)	-2800	+3900	-1300	-200	-2000	+300	-3300	-1000	+300	-2200	+12100	+5800

CAL YR 1994 MAX 277900 MIN 240800 (@) -1100
WTR YR 1995 MAX 261500 MIN 239500 (@) +9600

(+) 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 and biochemical analyses: September 1963 to current year.

324932098575101 - HUBBARD CREEK RESERVOIR SITE P01

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESERVOIR STORAGE (AC-FT)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)
MAR												
20...	1205	493000	1.00	1210	8.3	14.0	1.46	9.3	95	280	180	76
20...	1208	--	10.0	1210	8.3	14.0	--	9.3	95	--	--	--
20...	1212	--	20.0	1210	8.3	13.0	--	9.3	93	--	--	--
20...	1215	--	30.0	1210	8.2	12.5	--	9.2	91	--	--	--
20...	1219	--	40.0	1210	8.2	12.0	--	9.1	89	--	--	--
20...	1222	--	50.0	1210	8.2	11.5	--	8.8	85	--	--	--
20...	1225	--	63.0	1210	8.2	11.5	--	8.8	85	280	180	76
JUL												
27...	1120	486000	1.00	1300	8.1	29.0	1.92	6.1	84	290	190	75
27...	1124	--	10.0	1300	8.1	29.0	--	6.0	83	--	--	--
27...	1128	--	20.0	1300	8.0	28.5	--	5.9	80	--	--	--
27...	1133	--	30.0	1300	7.8	28.0	--	5.4	73	--	--	--
27...	1137	--	40.0	1300	7.3	26.5	--	1.2	16	--	--	--
27...	1141	--	50.0	1300	7.3	25.5	--	0.3	4	--	--	--
27...	1144	--	62.0	1300	7.4	24.5	--	0.6	8	300	180	81

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR											
20...	23	120	3	7.6	110	84	270	0.30	6.5	652	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	23	120	3	7.5	110	84	270	0.30	6.8	653	0.060
JUL											
27...	24	130	3	8.0	98	88	280	0.30	6.7	671	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	24	130	3	7.4	120	80	280	0.30	9.0	687	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR											
20...	<0.010	--	<0.050	<0.015	--	0.20	<0.010	<0.010	--	8	<1
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	<0.010	0.060	0.060	0.030	0.27	0.30	0.020	0.010	0.03	6	13
JUL											
27...	<0.010	--	<0.050	0.020	0.18	0.20	<0.010	<0.010	--	<3	7
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	<0.010	--	<0.050	0.020	0.18	0.20	<0.010	<0.010	--	20	170
27...	--	--	--	--	--	--	--	--	--	--	--
27...	<0.010	--	<0.050	0.270	0.23	0.50	<0.010	<0.010	--	150	1400

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

324649099000501 - HUBBARD CREEK RESERVOIR SITE P09

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L)
MAR										
20...	1133	1.00	1210	8.3	13.0	0.91	9.2	92	280	180
20...	1137	10.0	1210	8.2	12.5	--	9.2	91	--	--
20...	1141	20.0	1210	8.2	12.5	--	9.2	91	--	--
20...	1145	30.0	1210	8.2	12.5	--	9.1	90	--	--
20...	1148	43.0	1210	8.2	12.5	--	9.0	89	290	180
JUL										
27...	1040	1.00	1300	7.9	28.0	0.73	5.6	76	290	200
27...	1045	10.0	1300	7.8	28.0	--	5.5	74	--	--
27...	1050	20.0	1300	7.7	27.5	--	5.2	70	--	--
27...	1055	30.0	1300	7.3	26.5	--	1.6	21	--	--
27...	1059	43.0	1300	7.4	26.5	--	0.7	9	290	190

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
MAR										
20...	76	23	120	3	7.4	110	85	270	0.30	6.5
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	77	23	120	3	7.4	110	84	270	0.30	6.6
JUL										
27...	77	24	130	3	7.9	94	87	280	0.30	6.9
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	78	24	130	3	7.8	110	86	280	0.30	7.5

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR										
20...	652	<0.010	<0.050	<0.015	--	0.20	<0.010	<0.010	18	2
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	652	<0.010	<0.050	<0.015	--	0.30	<0.010	<0.010	3	3
JUL										
27...	669	--	--	--	--	--	--	--	<3	8
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	<0.010	<0.050	0.030	0.17	0.20	<0.010	<0.010	<10	200
27...	679	<0.010	<0.050	0.040	0.16	0.20	<0.010	<0.010	<3	470

324606099000201 - HUBBARD CREEK RESERVOIR SITE P10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
20...	1116	1.00	1210	8.2	13.5	9.0	91
20...	1118	10.0	1210	8.2	13.5	9.0	91
20...	1121	20.0	1210	8.2	13.0	9.0	90
20...	1124	33.0	1210	8.2	13.5	8.8	89
JUL							
27...	1021	1.00	1300	7.8	27.5	5.4	72
27...	1024	10.0	1300	7.8	27.5	5.4	72
27...	1027	20.0	1300	7.7	27.5	4.8	64
27...	1030	33.0	1300	7.5	27.0	0.7	9

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

324514099010201 - HUBBARD CREEK RESERVOIR SITE P11

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
20...	1038	1.00	1210	8.0	13.5	8.8	89
20...	1041	10.0	1200	7.9	13.5	8.8	89
20...	1045	24.0	1200	7.5	13.5	8.5	86
JUL							
27...	0938	1.00	1300	7.5	28.0	5.5	74
27...	0941	10.0	1300	7.3	27.5	5.2	70
27...	0945	23.0	1300	6.9	27.5	2.6	35

324301099001701 - HUBBARD CREEK RESERVOIR SITE P12

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
MAR										
20...	1057	1.00	1260	8.1	16.5	0.34	7.9	85	290	180
20...	1102	10.0	1250	8.0	16.0	--	7.5	80	300	190
JUL										
27...	0959	1.00	1280	7.8	28.5	0.18	5.4	74	290	180
27...	1005	10.0	1280	7.8	28.5	--	5.4	74	290	180

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
MAR										
20...	80	23	120	3	7.1	110	84	280	0.30	5.2
20...	81	23	120	3	7.1	110	84	290	0.30	5.4
JUL										
27...	79	23	130	3	7.7	110	83	270	0.40	7.3
27...	79	23	130	3	8.0	110	83	270	0.30	7.4

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR										
20...	667	<0.010	<0.050	<0.015	--	0.30	<0.010	<0.010	5	3
20...	678	<0.010	<0.050	<0.015	--	0.30	<0.010	<0.010	6	4
JUL										
27...	666	<0.010	<0.050	0.020	0.28	0.30	<0.010	<0.010	<3	2
27...	665	<0.010	<0.050	0.030	0.27	0.30	0.010	<0.010	<3	4

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

324949098594301 - HUBBARD CREEK RESERVOIR SITE P13

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
20...	1237	1.00	1210	8.3	14.5	9.3	96
20...	1240	10.0	1210	8.3	14.0	9.2	94
20...	1243	20.0	1210	8.3	13.5	9.2	93
20...	1247	30.0	1210	8.2	12.5	9.2	91
20...	1250	40.0	1210	8.2	12.0	9.0	88
20...	1253	50.0	1210	8.2	12.0	8.8	86
20...	1256	58.0	1210	8.2	12.0	8.8	86
JUL							
27...	1200	1.00	1300	8.1	29.0	6.1	84
27...	1203	10.0	1300	8.1	29.0	6.1	84
27...	1206	20.0	1300	8.0	29.0	5.8	80
27...	1209	30.0	1300	7.7	28.5	5.2	71
27...	1212	40.0	1300	7.3	26.0	0.3	4
27...	1215	50.0	1300	7.4	26.0	0.3	4
27...	1218	56.0	1300	7.4	26.0	0.4	5

324802099021601 - HUBBARD CREEK RESERVOIR SITE P15

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
20...	1313	1.00	1210	8.3	13.5	9.0	91
20...	1316	10.0	1210	8.3	13.5	9.0	91
20...	1319	20.0	1210	8.2	13.5	8.9	90
20...	1322	34.0	1210	8.3	12.5	8.8	87
JUL							
27...	1234	1.00	1300	8.1	28.5	6.0	82
27...	1237	10.0	1300	8.1	28.5	5.8	79
27...	1240	20.0	1300	8.0	28.5	5.3	72
27...	1243	33.0	1300	7.9	28.5	4.3	59

324653099032401 - HUBBARD CREEK RESERVOIR SITE P16

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
MAR										
20...	1334	1.00	1210	8.3	15.5	0.37	8.6	90	280	180
20...	1338	10.0	1210	8.2	15.0	--	8.5	88	--	--
20...	1342	20.0	1210	8.2	15.0	--	8.4	87	290	180
JUL										
27...	1257	1.00	1320	8.1	28.5	0.27	5.9	80	300	200
27...	1301	10.0	1320	8.1	28.5	--	5.9	80	--	--
27...	1306	19.0	1310	8.0	28.5	--	5.6	76	290	190

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
MAR										
20...	76	23	120	3	7.3	110	85	270	0.30	6.2
20...	--	--	--	--	--	--	--	--	--	--
20...	77	23	120	3	7.4	110	85	270	0.30	6.1
JUL										
27...	77	25	140	4	8.2	98	90	280	0.30	7.2
27...	--	--	--	--	--	--	--	--	--	--
27...	76	25	140	4	8.2	98	90	290	0.30	7.1

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

324653099032401 - HUBBARD CREEK RESERVOIR SITE P16--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR										
20...	653	<0.010	<0.050	<0.015	--	0.30	<0.010	<0.010	4	2
20...	--	--	--	--	--	--	--	--	--	--
20...	655	<0.010	<0.050	<0.015	--	0.30	<0.010	<0.010	<3	5
JUL										
27...	687	<0.010	<0.050	0.030	--	<0.20	<0.010	<0.010	<3	2
27...	--	--	--	--	--	--	--	--	--	--
27...	695	<0.010	<0.050	0.020	0.18	0.20	0.010	<0.010	<3	4

324608099042101 - HUBBARD CREEK RESERVOIR SITE P17

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR							
20...	1415	1.00	1210	8.1	18.0	8.3	92
20...	1417	10.0	1210	8.1	16.5	7.8	84
20...	1420	17.0	1210	8.1	15.0	6.7	70
JUL							
27...	1341	1.00	1450	8.0	29.5	5.8	80
27...	1344	10.0	1380	7.7	28.0	3.7	50
27...	1347	16.0	1370	7.6	28.0	1.5	20

324541099053601 - HUBBARD CREEK RESERVOIR SITE P18

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAR											
20...	1435	1.00	1270	8.1	18.0	0.55	8.1	90	320	180	86
20...	1441	10.0	1390	7.9	15.5	--	6.7	70	--	--	--
20...	1446	16.0	1390	7.9	15.0	--	5.2	54	350	200	95
JUL											
27...	1404	1.00	1570	7.8	30.5	0.52	4.8	67	340	230	82
27...	1409	10.0	1590	7.3	29.0	--	0.4	5	--	--	--
27...	1413	16.0	1570	7.4	29.0	--	0.4	5	330	220	83

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR											
20...	26	120	3	5.8	140	110	260	0.20	4.5	697	0.310
20...	--	--	--	--	--	--	--	--	--	--	--
20...	28	140	3	5.7	150	130	290	0.20	4.8	785	0.430
JUL											
27...	32	170	4	7.1	110	130	360	0.30	8.4	856	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	31	170	4	7.4	110	120	340	0.30	8.6	829	--

08086400 HUBBARD CREEK RESERVOIR NEAR BRECKENRIDGE, TX--Continued

324541099053601 - HUBBARD CREEK RESERVOIR SITE P18--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR											
20...	0.310	0.010	0.320	0.320	0.100	0.40	0.50	0.040	<0.010	4	6
20...	--	--	--	--	--	--	--	--	--	--	--
20...	0.430	0.020	0.450	0.450	0.210	0.39	0.60	0.010	<0.010	4	39
JUL											
27...	--	<0.010	--	<0.050	0.050	0.25	0.30	<0.010	<0.010	<3	49
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	<0.010	--	<0.050	0.040	0.16	0.20	<0.010	<0.010	<3	630

08088000 BRAZOS RIVER NEAR SOUTH BEND, TX

LOCATION.--Lat 33°01'27", long 98°38'37", Young County, Hydrologic Unit 12060201, on left bank 225 ft downstream from bridge on State Highway 67, 1.8 mi downstream from Clear Fork Brazos River, 2.0 mi northeast of South Bend, and at mile 758.2.

DRAINAGE AREA.--22,673 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--September 1938 to current year.
Water-quality records: Chemical analyses: July 1941 to Mar. 1948; Biochemical analyses: Nov. 1977 to Sept. 1991; Pesticide analyses: Mar. 1968 to April 1982; Sediment analyses: May to Sept. 1962 and Nov. 1977 to Sept. 1991.

REVISED RECORDS.--WDR TX-74-1: 1973. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,002.98 ft above mean 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.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. There are many small diversions upstream from station for municipal supply and oil field operations. 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 mi² in the Duck Creek basin. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1876 reached a stage of 36.2 ft, from information by Texas Department of Transportation and U.S. Army Corps of Engineers. Flood of Sept. 24, 1900, reached a stage of 29.5 ft, and flood of June 16, 1930, reached a stage of 35.5 ft, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s.

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 5	0900	11,500	17.51				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	163	161	112	e53	69	84	46	2410	179	348	128
2	37	133	155	109	e53	69	80	46	2410	171	736	120
3	35	113	146	113	e50	72	74	48	1830	173	2680	111
4	40	98	136	114	e47	73	78	46	1440	399	7980	107
5	36	95	129	119	e46	73	89	49	1250	1350	10800	103
6	34	133	126	114	e45	75	99	111	3540	665	7800	95
7	63	201	120	110	e44	77	96	125	2820	405	5330	92
8	105	190	117	108	e55	77	82	379	1710	337	4090	90
9	85	180	144	100	e69	76	74	1220	1280	264	2770	89
10	75	171	171	98	77	76	66	968	1060	202	1450	105
11	115	144	165	94	77	76	86	598	4600	165	957	134
12	112	127	178	90	76	75	93	480	4850	138	664	141
13	83	105	158	82	75	151	82	369	1690	121	492	376
14	75	1590	142	79	76	203	77	292	1810	108	368	299
15	71	1270	136	73	76	433	70	239	1340	97	278	239
16	63	343	125	74	75	258	68	193	954	92	214	199
17	1220	210	121	71	76	180	66	160	909	101	171	166
18	8910	218	119	e100	78	181	66	150	716	98	135	353
19	4480	275	119	e100	79	154	69	183	561	148	144	2550
20	2290	328	113	e91	79	137	73	270	458	149	164	2210
21	1940	213	109	e82	79	133	66	290	384	115	139	2110
22	1720	174	103	e53	78	122	58	203	333	89	152	1190
23	1210	202	101	e49	75	110	54	166	296	152	137	1280
24	576	446	100	e56	75	103	51	153	265	149	124	1140
25	366	343	98	e54	75	98	52	717	240	148	120	910
26	360	277	97	e50	76	96	51	432	226	116	123	655
27	474	235	95	e54	73	85	54	626	249	96	160	470
28	322	205	103	e54	68	95	60	1400	259	82	106	378
29	321	183	114	e55	---	107	56	2610	215	71	169	321
30	264	172	112	e54	---	95	52	1400	214	63	152	283
31	207	---	113	e53	---	86	---	1090	---	90	139	---
TOTAL	25730	8537	3926	2565	1905	3715	2126	15059	40319	6533	49092	16444
MEAN	830	285	127	82.7	68.0	120	70.9	486	1344	211	1584	548
MAX	8910	1590	178	119	79	433	99	2610	4850	1350	10800	2550
MIN	34	95	95	49	44	69	51	46	214	63	106	89
AC-FT	51040	16930	7790	5090	3780	7370	4220	29870	79970	12960	97370	32620

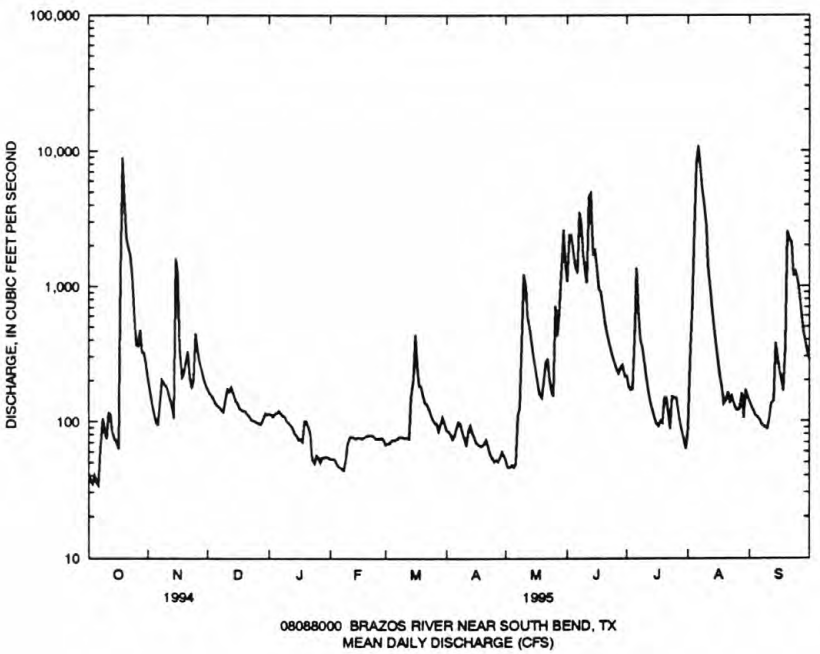
08088000 BRAZOS RIVER NEAR SOUTH BEND, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	1283	366	296	203	411	334	748	2300	1807	710	659	1018
MAX	11620	2143	6024	1743	8987	4143	7910	22430	8652	4406	9363	7201
(WY)	1942	1975	1992	1968	1992	1992	1957	1957	1982	1961	1978	1955
MIN	.000	1.13	.39	.54	.60	.64	.82	22.1	5.61	1.51	.32	.000
(WY)	1953	1944	1939	1940	1953	1940	1971	1984	1984	1956	1970	1952

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	133182.6		175951			
ANNUAL MEAN	365		482		846	
HIGHEST ANNUAL MEAN					3399	1957
LOWEST ANNUAL MEAN					59.9	1952
HIGHEST DAILY MEAN	11700	May 13	10800	Aug 5	84300	May 4 1941
LOWEST DAILY MEAN	2.7	Aug 20	34	Oct 6	.00	Oct 29 1938
ANNUAL SEVEN-DAY MINIMUM	3.9	Aug 14	41	Oct 1	.00	Oct 29 1938
INSTANTANEOUS PEAK FLOW			11500	Aug 5	87400	May 4 1941
INSTANTANEOUS PEAK STAGE			17.51	Aug 5	41.50	Aug 6 1978
ANNUAL RUNOFF (AC-FT)	264200		349000		613100	
10 PERCENT EXCEEDS	553		1260		1500	
50 PERCENT EXCEEDS	94		125		117	
90 PERCENT EXCEEDS	31		57		6.8	

e Estimated



08088000 BRAZOS RIVER NEAR SOUTH BEND, TX
MEAN DAILY DISCHARGE (CFS)

08088400 LAKE GRAHAM NEAR GRAHAM, TX

LOCATION.--Lat 33°08'04", long 98°36'48", Young County, Hydrologic Unit 12060201, near left end of earthen dam on Salt Creek, 2.2 mi northwest of Graham, 5 mi downstream from Briar Creek, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--221 mi².

PERIOD OF RECORD.--March 1958 to September 1963 (unpublished record), October 1963 to current year. Prior to October 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 October 1963, nonrecording gage at same site and datum.

REMARKS.--The lake is formed by a rolled earthfill dam 5,000 ft long. Lake Graham was connected with Lake Eddleman in 1959 by a cut channel at a gage height of 1,050.0 ft. Deliberate impoundment began Apr. 28, 1958, and dam was completed in July 1958. The uncontrolled emergency spillway is a 1,050-foot-wide cut at the right end of dam. The spillway is designed to discharge 136,500 ft³/s at a gage height of 1,087.5 ft. The dam is the property of the city of Graham and was built to impound water for municipal and industrial uses. In addition, water is used by the Texas Electric Service Co. for operation of their steam generating powerplant. The capacity table is based on an original survey of Lake Eddleman in 1928 and a Salt Creek survey of 1953. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Gage height (feet)	Capacity (acre-feet)
Top of dam	1,092.0	-
Crest of spillway	1,075.0	53,680
Bottom of interconnecting channel	1,050.0	8,670
Lowest gated outlet (invert)	1,050.0	8,670

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, 56,060 acre-ft Nov. 15 at 1800 hours (gage height, 1,075.91 ft); minimum daily, 49,430 acre-ft Oct. 6.

Capacity table (gage height, in feet, and total contents, in acre-feet)

1,060.0	21,240	1,069.0	39,180	1,075.0	53,680
1,064.0	28,580	1,071.0	43,820	1,077.0	58,990
1,067.0	34,760	1,073.0	48,660	1,080.0	67,660

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49630	53940	54120	53990	53680	53150	53760	53100	52870	53680	54230	52920
2	49630	53890	54120	53970	53680	53150	53710	53000	52770	53600	55250	52820
3	49600	53890	54120	53970	53600	53150	53710	52900	52770	53530	55480	52770
4	49630	53810	54120	53970	53600	53120	53710	52770	52710	53400	55660	52690
5	49580	53840	54100	53890	53600	53120	53780	53170	52660	54650	55560	52590
6	49430	53730	54070	53910	53600	53100	53780	53580	52660	54720	55320	52460
7	49950	53810	54050	53860	53450	53040	53810	53860	52610	54620	55120	52330
8	50120	53760	53970	53840	53480	53040	53810	54250	52490	54520	54960	52310
9	50100	54100	54120	53840	53430	53040	53760	54330	52430	54380	54750	52230
10	50050	54440	54280	53840	53430	52970	53730	54200	52910	54310	54720	52180
11	50000	54440	54310	53840	53550	52970	53680	54000	54380	54200	54590	52180
12	49950	54360	54310	53840	53500	53170	53650	53900	54980	54120	54460	52310
13	49920	54360	54310	53780	53500	53730	53600	53800	54830	53910	54380	52410
14	49900	54360	54280	53760	53480	54250	53530	53660	54670	53910	54280	52410
15	49830	55920	54230	53600	53500	54780	53530	53550	54520	53810	54180	52380
16	49830	55400	54230	53680	53480	54960	53530	53420	54360	53730	54070	52180
17	49920	55140	54180	53580	53450	54800	53600	53300	54230	53730	53990	52180
18	51170	54930	54180	53890	53430	54650	53600	53050	54150	53910	53910	52260
19	51220	54750	54100	53990	53430	54520	53600	52870	54070	54070	53840	52280
20	52610	55140	54100	53970	53400	54410	53550	52700	53990	54070	53810	52280
21	53170	55040	54050	53970	53400	54310	53550	52540	53860	53970	53760	52160
22	53500	54910	54050	53970	53350	54280	53380	52390	53860	53910	53680	52110
23	53500	54720	54020	53840	53300	54200	53350	52430	53730	53780	53600	52000
24	53500	54620	54020	53940	53300	54100	53320	52490	53710	53170	53530	51950
25	53940	54540	53990	53910	53270	54100	53350	52490	53580	53680	53400	51950
26	54150	54440	53990	53890	53200	54100	53270	52700	53500	53600	53400	51950
27	54150	54440	53990	53760	53200	54050	53220	52790	53430	53530	53320	51900
28	54150	54360	53990	53810	53120	53970	53170	52790	53350	53450	53220	51850
29	54150	54250	54050	53780	---	53910	53170	52790	53730	53350	53100	51800
30	54120	54200	54050	53760	---	53840	53100	52790	53730	53270	53020	51830
31	54020	---	54050	53760	---	53780	---	52890	---	53480	52990	---
MAX	54150	55920	54310	53990	53680	54960	53810	54330	54980	54720	55660	52920
MIN	49430	53730	53970	53580	53120	52970	53100	52390	52430	53170	52990	51800
(+)	1075.13	1075.20	1075.14	1075.03	1074.78	1075.04	1074.77	1074.69	1075.02	1074.92	1074.73	1074.27
(@)	+4340	+180	-150	-290	-640	+660	-680	-210	+840	-250	-490	-1160

CAL YR 1994 MAX 55920 MIN 43050 (@) +9100
WTR YR 1995 MAX 55920 MIN 49430 (@) +2150

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

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX

LOCATION.--Lat 32°52'20", long 98°25'32", Palo Pinto County, Hydrologic Unit 12060201, at Morris Sheppard Dam on the Brazos River, 2.6 mi upstream from Loving Creek, 11.3 mi southwest of Graford, and at mile 687.5.

DRAINAGE AREA.--23,596 mi², approximately, of which 9,566 mi² probably is noncontributing.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--March 1941 to current year. Prior to October 1977, published as Possum Kingdom Reservoir.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.10 ft above sea level. Prior to Mar. 19, 1968, mercury U-tube in powerhouse at present site and datum.

REMARKS.--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 began 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 ft³/s at a gage height of 1,000.0 ft. The outlet works consist of one controlled 54-inch diameter conduit. Water is used for power development, irrigation, municipal, industrial, and recreational purposes. Two generators located in the powerhouse at dam can produce 22,500 kilowatts at a 1,000-foot gage height. Eleven major reservoirs, with a combined capacity of 607,800 acre-ft, largely regulate the inflow. The capacity curve is based on recomputation of a survey made in 1974. For statement regarding regulation by National Resources Conservation Service floodwater-retarding structures, see station 08080950. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Gage height (feet)	Capacity (acre-feet)
Top of dam	1,024.0	--
Design flood (top of gates)	1,000.0	570,200
Crest of spillway	987.0	383,300
Invert of penstock	911.5	4,560
Lowest gated outlet (invert of 54-inch conduit)	874.8	0

COOPERATION.--Capacity table 3-C provided by the Brazos River Authority.

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).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 561,500 acre-ft Aug. 7 at 0800 hours (gage height, 999.50 ft); minimum daily, 489,400 acre-ft Oct. 6 (995.04 ft).

Capacity table (gage height, in feet, and total contents, in acre-feet)

967.0	198,700	982.0	328,300	994.0	474,000
970.0	221,100	985.0	360,500	997.0	519,800
973.0	245,100	988.0	395,100	1000.0	570,200
976.0	270,900	991.0	432,700	1003.0	638,500
979.0	298,500	994.0	474,100	1004.0	662,500

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492800	544600	548800	529800	522600	512200	518700	501400	512100	545600	521900	540000
2	492400	544900	549300	530000	523000	511000	518500	500400	517000	545400	537200	539000
3	492300	544900	549800	529000	522200	510800	519000	500700	520300	544200	536000	537800
4	491400	544100	549900	528900	522100	510000	520400	500200	524800	545900	539700	537700
5	490300	545100	548800	528100	521700	510500	521300	500800	526400	553300	548800	535700
6	490000	544600	548800	528400	521600	513500	521900	501400	528100	555200	559400	534200
7	490900	544900	547100	528400	520800	509400	520900	504500	533400	554900	553700	532600
8	490900	545100	545700	528900	520300	508900	521400	504200	536000	554200	550400	531300
9	490800	545200	545600	528700	520300	508700	519300	505400	537800	553700	554000	530200
10	490600	544600	545700	528700	520400	508900	519600	506700	540500	552800	554700	530300
11	490500	545200	543700	528100	520300	508300	518200	507500	547800	552000	553500	530300
12	490500	544600	543600	527900	518500	508700	516500	508400	555200	550300	553800	529700
13	490300	545400	542900	527100	518100	511700	515500	508100	555200	548300	553800	529800
14	490200	550300	542900	526900	518200	513200	514000	505700	555200	546800	553500	529400
15	490000	555100	542400	526800	518200	514900	514000	506200	557300	545200	552300	528200
16	490300	555600	542000	526900	517600	516600	514000	504600	559200	544600	552000	526400
17	491400	556600	541500	526600	517600	518100	512100	503200	559400	544200	551100	526000
18	498700	554400	540200	526600	517700	518500	512100	501400	559800	543900	549900	528500
19	512200	552300	539000	526100	517600	518700	511400	500200	559100	543700	548100	532300
20	524200	554400	538400	526600	517900	519000	510600	500200	557700	543600	548300	535400
21	532100	555100	537700	526600	517300	519300	509400	500700	556600	542400	547400	538500
22	536700	555100	536000	525300	516800	519500	508900	499300	555600	540700	547600	540700
23	539700	553500	535700	525300	516300	519500	507900	499400	554000	538400	546200	541900
24	542200	553500	535400	524700	515700	519300	506700	501300	553000	536300	544700	543900
25	543400	554400	534200	524300	514700	520000	506100	501000	551300	535200	543600	545200
26	544400	555100	533400	524200	514600	519600	504900	503500	549300	533400	543400	545900
27	545100	554400	532600	524700	514100	519500	504300	503500	549100	531800	542600	546200
28	545200	553300	533100	523800	513300	519000	503200	503200	548600	530200	542200	546100
29	545900	551000	533100	523700	---	518900	502300	506700	546100	527600	541900	545400
30	546400	549300	531600	522900	---	519000	501900	509100	546400	525000	541000	545400
31	545400	---	531500	522700	---	518700	---	509800	---	521100	539900	---
MAX	546400	556600	549900	530000	523000	520000	521900	509800	559800	555200	559400	546200
MIN	490000	544100	531500	522700	513300	508300	501900	499300	512100	521100	521900	526000
(+)	998.56	998.79	997.72	997.18	996.59	996.93	995.86	996.37	998.62	997.08	998.23	998.56
(@)	+52800	+3900	-17800	-8800	-9400	+5400	-16800	+7900	+36600	-25300	+18800	+5500

CAL YR 1994 MAX 559600 MIN 463900 (@) +62100
WTR YR 1995 MAX 559800 MIN 490000 (@) +52800

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

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: March 1962 to September 1977. Chemical and biochemical analyses: February 1978 to current year.

325208098254201 - POSSUM KINGDOM LAKE SITE AR

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1138	1.00	2550	8.2	11.0	9.0	86
06...	1140	10.0	2550	8.2	11.0	9.0	86
06...	1142	20.0	2550	8.2	11.0	9.0	86
06...	1144	30.0	2540	8.2	11.0	9.0	86
06...	1146	40.0	2540	8.2	11.0	9.0	86
06...	1148	50.0	2540	8.2	11.0	9.0	86
06...	1150	60.0	2550	8.2	11.0	8.9	85
06...	1153	70.0	2550	8.1	10.5	8.7	82
06...	1155	86.0	2560	8.1	10.5	8.6	81
MAY							
16...	1049	1.00	2500	8.4	23.5	7.6	94
16...	1052	10.0	2500	8.4	23.5	7.6	94
16...	1055	20.0	2500	8.5	21.5	7.9	94
16...	1058	30.0	2500	8.4	20.5	7.6	89
16...	1101	40.0	2520	8.0	18.0	5.6	62
16...	1104	50.0	2570	7.8	15.0	4.9	51
16...	1107	60.0	2580	7.8	14.5	5.0	52
16...	1110	70.0	2600	7.8	14.0	4.7	48
16...	1113	80.0	2600	7.8	14.0	4.5	46
16...	1116	93.0	2600	7.9	14.0	4.2	43
JUL							
26...	1205	1.00	2580	8.1	29.0	6.2	84
26...	1207	10.0	2580	8.1	28.5	6.2	84
26...	1210	20.0	2580	8.0	28.0	6.0	80
26...	1213	30.0	2610	7.7	27.0	4.3	57
26...	1216	40.0	2610	7.5	26.0	3.0	39
26...	1219	50.0	2540	7.4	23.0	1.2	15
26...	1222	60.0	2510	7.4	19.5	0.4	5
26...	1225	73.0	2520	7.6	18.5	0.5	6

325218098254101 - POSSUM KINGDOM LAKE SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESERVOIR STORAGE (AC-FT)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)
MAR												
06...	1052	511000	1.00	2550	8.2	11.0	6.71	9.2	88	470	350	120
06...	1055	--	10.0	2550	8.2	11.0	--	9.2	88	--	--	--
06...	1058	--	20.0	2550	8.2	11.0	--	9.1	87	--	--	--
06...	1102	--	30.0	2540	8.2	11.0	--	9.1	87	--	--	--
06...	1105	--	40.0	2550	8.2	10.5	--	9.1	86	--	--	--
06...	1108	--	50.0	2530	8.2	10.5	--	9.0	85	--	--	--
06...	1111	--	60.0	2540	8.1	10.5	--	8.9	84	--	--	--
06...	1116	--	70.0	2550	8.1	10.5	--	8.8	83	--	--	--
06...	1119	--	80.0	2570	8.1	10.5	--	8.4	79	--	--	--
06...	1122	--	90.0	2570	8.0	10.5	--	8.0	76	--	--	--
06...	1126	--	98.0	2570	8.0	10.5	--	7.7	73	470	350	120
MAY												
16...	1000	506000	1.00	2500	8.4	23.5	4.75	7.5	93	430	310	110
16...	1004	--	10.0	2500	8.4	23.0	--	7.6	93	--	--	--
16...	1008	--	20.0	2490	8.5	22.0	--	7.8	94	--	--	--
16...	1012	--	30.0	2500	8.4	20.0	--	7.2	83	--	--	--
16...	1016	--	40.0	2520	8.0	18.0	--	5.6	62	--	--	--
16...	1020	--	50.0	2550	7.8	15.0	--	5.1	53	--	--	--
16...	1025	--	60.0	2580	7.8	14.0	--	5.3	54	--	--	--
16...	1029	--	70.0	2600	7.8	14.0	--	5.1	52	--	--	--
16...	1035	--	80.0	2600	7.8	14.0	--	4.3	44	--	--	--
16...	1039	--	90.0	2600	7.7	14.0	--	4.0	41	--	--	--
16...	1043	--	98.0	2590	7.6	14.0	--	3.7	38	470	350	120
JUL												
26...	1108	534000	1.00	2580	8.1	29.0	4.21	6.1	83	410	310	100
26...	1112	--	10.0	2580	8.1	28.5	--	6.1	82	--	--	--
26...	1116	--	20.0	2590	8.0	28.5	--	6.0	81	--	--	--
26...	1121	--	30.0	2600	7.6	27.0	--	4.8	63	--	--	--
26...	1125	--	40.0	2610	7.3	25.5	--	2.6	33	--	--	--
26...	1130	--	50.0	2560	7.2	23.0	--	0.7	9	--	--	--
26...	1134	--	60.0	2530	7.2	19.0	--	0.3	3	--	--	--
26...	1138	--	70.0	2540	7.2	17.5	--	0.3	3	--	--	--
26...	1143	--	80.0	2550	7.1	16.5	--	0.4	4	--	--	--
26...	1148	--	90.0	2560	7.1	16.5	--	0.4	4	--	--	--
26...	1153	--	98.0	2550	7.1	16.0	--	0.4	4	410	290	100

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325218098254101 - POSSUM KINGDOM LAKE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR												
06...	41	370	7	7.5	120	320	580	0.40	6.2	1510	0.100	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	42	380	8	7.5	120	330	580	0.40	6.6	1540	0.110	0.110
MAY												
16...	37	350	7	7.4	120	300	530	0.30	5.2	1410	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	41	370	7	7.7	120	320	570	0.40	6.9	1510	0.210	0.210
JUL												
26...	39	360	8	7.0	100	310	590	0.40	4.6	1470	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	0.070	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	40	350	7	7.4	120	300	550	0.40	7.9	1430	0.060	0.060

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
06...	<0.010	0.100	0.100	0.050	0.25	0.30	<0.010	0.020	0.06	<10	<10
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	0.010	0.120	0.120	0.090	0.21	0.30	<0.010	0.020	0.06	<10	<10
MAY											
16...	<0.010	--	<0.050	0.030	0.37	0.40	0.020	<0.010	--	20	<10
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	0.010	0.220	0.220	0.070	0.33	0.40	0.020	0.030	0.09	20	220
JUL											
26...	<0.010	--	<0.050	0.030	0.17	0.20	<0.010	<0.010	--	<10	<10
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	<0.010	--	<0.050	0.080	0.22	0.30	0.010	<0.010	--	<10	<10
26...	<0.010	0.070	0.070	0.130	0.27	0.40	<0.010	<0.010	--	20	30
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	0.020	0.080	0.080	0.260	0.24	0.50	0.100	0.130	0.40	30	460

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325250098275301 - POSSUM KINGDOM LAKE SITE BR

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1247	1.00	2460	8.2	11.5	9.4	91
06...	1249	10.0	2450	8.2	11.0	9.4	90
06...	1251	20.0	2460	8.2	11.0	9.4	90
06...	1254	30.0	2460	8.2	11.0	9.3	89
06...	1256	40.0	2470	8.2	11.0	9.3	89
06...	1259	50.0	2470	8.2	11.0	9.2	88
06...	1302	66.0	2500	8.2	11.0	9.1	87
MAY							
16...	1219	1.00	2480	8.4	24.0	7.7	96
16...	1222	10.0	2480	8.4	24.0	7.7	96
16...	1225	20.0	2490	8.4	23.5	7.6	94
16...	1228	30.0	2490	8.3	20.5	7.1	83
16...	1231	40.0	2480	8.0	19.0	5.7	65
16...	1234	52.0	2500	7.8	17.0	4.2	46
JUL							
26...	1319	1.00	2590	8.2	30.0	6.3	87
26...	1322	10.0	2600	8.1	29.5	6.2	85
26...	1325	20.0	2620	8.0	29.0	5.8	79
26...	1328	30.0	2690	7.5	27.5	2.8	37
26...	1331	40.0	2730	7.4	26.0	0.9	12
26...	1334	54.0	2640	7.5	23.0	0.4	5

325256098275301 - POSSUM KINGDOM LAKE SITE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1210	1.00	2460	8.2	11.0	9.4	90
06...	1213	10.0	2450	8.2	11.0	9.4	90
06...	1215	20.0	2460	8.2	11.0	9.4	90
06...	1218	30.0	2470	8.2	11.0	9.3	89
06...	1220	40.0	2480	8.2	11.0	9.3	89
06...	1223	50.0	2480	8.2	10.5	9.3	88
06...	1226	60.0	2490	8.2	10.5	9.2	87
06...	1229	70.0	2510	8.2	10.5	9.0	85
06...	1231	80.0	2520	8.1	10.5	8.5	80
06...	1235	91.0	2540	8.1	10.5	7.9	75
MAY							
16...	1133	1.00	2480	8.4	24.0	7.7	96
16...	1137	10.0	2490	8.4	24.0	7.6	95
16...	1141	20.0	2490	8.4	23.5	7.5	93
16...	1145	30.0	2500	8.4	20.5	7.2	84
16...	1149	40.0	2500	8.0	18.5	5.5	62
16...	1153	50.0	2500	7.7	16.5	4.0	43
16...	1157	60.0	2530	7.7	15.0	3.8	40
16...	1201	70.0	2560	7.7	14.5	3.9	40
16...	1205	80.0	2570	7.7	14.0	3.8	39
16...	1209	90.0	2580	7.8	14.0	3.6	37
JUL							
26...	1240	1.00	2600	8.1	29.5	6.2	85
26...	1243	10.0	2600	8.1	29.5	6.1	84
26...	1247	20.0	2610	7.9	28.5	5.5	74
26...	1250	30.0	2680	7.5	26.5	2.8	36
26...	1253	40.0	2720	7.3	25.5	1.1	14
26...	1256	50.0	2660	7.4	23.5	0.3	4
26...	1259	60.0	2610	7.4	20.5	0.3	3
26...	1302	70.0	2590	7.4	18.5	0.3	3
26...	1306	80.0	2550	7.4	17.0	0.3	3
26...	1309	91.0	2550	7.6	16.5	0.5	5

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325129098311801 - POSSUM KINGDOM LAKE SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1355	1.00	2320	8.2	11.0	9.2	88
06...	1358	10.0	2330	8.2	11.0	9.2	88
06...	1401	20.0	2320	8.2	10.5	9.1	86
06...	1404	30.0	2330	8.2	10.5	9.0	85
06...	1407	40.0	2380	8.1	10.5	8.0	75
06...	1410	50.0	2420	8.0	10.5	7.8	74
06...	1413	60.0	2400	8.0	11.0	7.7	74
06...	1416	72.0	2430	8.0	11.0	7.7	74
MAY							
16...	1332	1.00	2440	8.4	22.0	7.8	94
16...	1336	10.0	2450	8.4	21.5	7.6	91
16...	1339	20.0	2450	8.3	20.5	6.7	78
16...	1343	30.0	2470	8.1	19.5	5.5	63
16...	1347	40.0	2480	7.9	18.5	4.5	51
16...	1350	50.0	2490	7.6	15.5	1.9	20
16...	1354	60.0	2510	7.5	14.5	1.6	17
16...	1358	72.0	2500	7.6	14.5	1.6	17
JUL							
26...	1430	1.00	2670	8.2	29.5	5.8	80
26...	1433	10.0	2670	8.1	29.0	5.7	78
26...	1437	20.0	2660	7.8	28.5	4.9	66
26...	1440	30.0	2710	7.3	27.0	0.7	9
26...	1443	40.0	2810	7.3	25.5	0.2	3
26...	1447	50.0	2890	7.4	23.5	0.3	4
26...	1450	60.0	2820	7.4	21.0	0.3	4
26...	1455	73.0	2660	7.5	19.0	0.4	5

325327098314001 - POSSUM KINGDOM LAKE SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR												
06...	1536	1.00	2290	8.3	11.0	2.16	9.5	91	420	300	110	35
06...	1539	10.0	2290	8.2	10.5	--	9.3	88	--	--	--	--
06...	1542	20.0	2280	8.2	10.5	--	9.1	86	--	--	--	--
06...	1545	30.0	2280	8.2	10.0	--	9.1	85	--	--	--	--
06...	1548	40.0	2300	8.2	10.5	--	9.0	85	--	--	--	--
06...	1550	50.0	2300	8.1	10.5	--	8.6	81	--	--	--	--
06...	1553	68.0	2360	7.9	10.5	--	6.8	64	430	310	110	37
MAY												
16...	1526	1.00	2460	8.4	24.0	1.74	7.8	98	420	310	110	36
16...	1531	10.0	2460	8.4	23.0	--	7.7	95	--	--	--	--
16...	1536	20.0	2470	8.3	22.0	--	7.1	86	--	--	--	--
16...	1541	30.0	2540	8.2	20.5	--	5.9	69	--	--	--	--
16...	1545	40.0	2560	8.1	20.0	--	5.1	59	--	--	--	--
16...	1550	50.0	2580	7.6	17.0	--	1.8	20	--	--	--	--
16...	1555	60.0	2510	7.5	15.5	--	1.0	11	--	--	--	--
16...	1600	67.0	2500	7.5	15.5	--	1.2	13	460	330	120	38
JUL												
26...	1608	1.00	2650	8.2	30.5	2.04	5.9	82	410	310	100	39
26...	1612	10.0	2660	8.2	30.5	--	5.9	83	--	--	--	--
26...	1617	20.0	2660	8.0	30.0	--	5.6	78	--	--	--	--
26...	1621	30.0	2700	7.4	28.0	--	1.9	25	--	--	--	--
26...	1625	40.0	2850	7.3	26.0	--	0.2	3	--	--	--	--
26...	1629	50.0	2970	7.3	24.0	--	0.2	2	--	--	--	--
26...	1633	60.0	2950	7.4	20.5	--	0.3	3	--	--	--	--
26...	1638	68.0	2770	7.5	20.0	--	0.4	5	490	340	130	39

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325327098314001 - POSSUM KINGDOM LAKE SITE DC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR											
06...	330	7	7.1	120	270	520	0.40	5.8	1350	0.120	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	350	7	7.0	120	270	540	0.40	6.4	1390	0.120	0.120
MAY											
16...	350	7	7.2	110	290	530	0.30	5.0	1390	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	350	7	7.3	130	290	540	0.30	6.4	1430	0.220	0.220
JUL											
26...	380	8	7.6	100	310	620	0.40	5.2	1520	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	390	8	6.9	140	300	620	0.40	8.3	1580	--	--

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR											
06...	<0.010	0.120	0.120	0.040	0.26	0.30	<0.010	<0.010	--	<10	<10
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	0.010	0.130	0.130	0.170	0.23	0.40	<0.010	0.020	0.06	20	40
MAY											
16...	<0.010	--	<0.050	<0.015	--	0.40	<0.010	<0.010	--	20	<10
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	0.020	0.240	0.240	0.080	0.42	0.50	0.030	<0.010	--	10	290
JUL											
26...	<0.010	--	<0.050	0.030	0.17	0.20	<0.010	<0.010	--	<10	<10
26...	--	--	--	--	--	--	--	--	--	--	--
26...	<0.010	--	<0.050	0.030	0.17	0.20	<0.010	<0.010	--	<10	<10
26...	<0.010	--	<0.050	0.040	0.16	0.20	0.020	0.010	0.03	20	20
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	<0.010	--	<0.050	0.660	0.24	0.90	0.120	0.150	0.46	90	610

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325347098265701 - POSSUM KINGDOM LAKE SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1611	1.00	2280	8.2	10.5	9.8	93
06...	1613	10.0	2280	8.2	10.0	8.9	84
06...	1615	20.0	2280	8.2	9.5	8.7	81
06...	1617	30.0	2280	8.2	9.5	8.6	80
06...	1620	40.0	2280	8.1	9.5	8.5	79
06...	1624	53.0	2460	8.0	10.0	7.5	70
MAY							
16...	1615	1.00	2550	8.4	24.0	8.0	100
16...	1618	10.0	2560	8.4	23.0	7.6	93
16...	1622	20.0	2720	8.1	21.5	5.5	66
16...	1626	30.0	3040	7.9	21.5	4.2	50
16...	1630	40.0	3370	7.7	21.0	2.6	31
16...	1634	52.0	2930	7.5	18.5	0.8	9
JUL							
26...	1657	1.00	2680	8.2	30.0	6.2	86
26...	1659	10.0	2680	8.0	29.0	5.4	74
26...	1702	20.0	2680	7.8	29.0	4.7	64
26...	1705	30.0	2710	7.4	28.0	1.7	23
26...	1708	40.0	2940	7.4	27.0	0.3	4
26...	1711	52.0	3080	7.4	24.5	0.4	5

325557098264401 - POSSUM KINGDOM LAKE SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1642	1.00	2310	8.3	10.0	9.7	91
06...	1644	10.0	2310	8.2	10.0	9.4	88
06...	1647	20.0	2340	8.2	10.0	9.2	86
06...	1650	30.0	2540	8.1	9.5	8.2	76
06...	1652	37.0	2740	8.0	10.0	7.4	70
MAY							
16...	1652	1.00	2690	8.4	24.5	7.5	95
16...	1655	10.0	2670	8.3	24.5	7.0	89
16...	1658	20.0	2750	8.2	24.0	6.4	80
16...	1701	30.0	3020	7.9	23.0	4.3	53
16...	1704	36.0	3120	7.8	23.0	3.8	47
JUL							
26...	1725	1.00	2640	8.3	30.5	6.3	88
26...	1728	10.0	2640	8.3	30.0	6.2	86
26...	1731	20.0	2600	8.0	29.5	4.8	66
26...	1734	30.0	2590	7.7	29.5	3.5	48
26...	1737	37.0	2710	7.6	29.0	1.4	19

325715098250501 - POSSUM KINGDOM LAKE SITE GC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)
MAR											
06...	1703	1.00	2580	8.2	10.5	0.49	9.1	87	460	330	120
06...	1707	10.0	2570	8.2	10.0	--	9.0	85	--	--	--
06...	1711	24.0	2930	8.1	9.5	--	8.2	76	500	360	130
MAY											
16...	1717	1.00	2960	8.4	25.0	0.46	7.5	96	490	360	130
16...	1722	10.0	2910	8.3	25.0	--	7.0	89	--	--	--
16...	1727	15.0	2890	8.2	24.5	--	6.2	78	--	--	--
16...	1732	23.0	3070	7.8	23.0	--	3.4	42	500	360	130
JUL											
26...	1749	1.00	2510	8.3	30.5	0.67	6.3	88	440	350	120
26...	1754	10.0	2500	8.1	30.0	--	5.1	71	--	--	--
26...	1759	24.0	2520	7.8	29.5	--	2.3	32	430	340	120

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325715098250501 - POSSUM KINGDOM LAKE SITE GC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR											
06...	38	390	8	6.8	130	290	620	0.40	5.1	1550	0.120
06...	--	--	--	--	--	--	--	--	--	--	--
06...	42	460	9	6.9	140	310	710	0.40	4.8	1750	0.110
MAY											
16...	40	430	8	7.4	120	310	670	0.30	4.8	1670	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	43	440	9	7.5	140	310	690	0.40	5.5	1710	--
JUL											
26...	34	360	7	7.0	89	310	580	0.40	7.2	1470	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	32	350	7	7.6	92	300	560	0.40	7.8	1430	--

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR											
06...	<0.010	0.120	0.120	0.080	0.22	0.30	<0.010	0.010	0.03	120	10
06...	--	--	--	--	--	--	--	--	--	--	--
06...	<0.010	0.110	0.110	0.130	0.27	0.40	<0.010	0.010	0.03	<10	40
MAY											
16...	<0.010	--	<0.050	<0.015	--	0.40	<0.010	0.010	0.03	20	<10
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	0.020	--	<0.050	0.210	0.39	0.60	<0.010	<0.010	--	20	200
JUL											
26...	<0.010	--	<0.050	0.030	0.17	0.20	0.010	<0.010	--	<10	<10
26...	--	--	--	--	--	--	--	--	--	--	--
26...	<0.010	--	<0.050	0.060	0.24	0.30	<0.010	<0.010	--	<10	120

325047098291201 - POSSUM KINGDOM LAKE SITE P03

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR							
06...	1317	1.00	2430	8.2	11.5	9.0	87
06...	1320	10.0	2410	8.2	11.5	9.0	87
06...	1323	20.0	2410	8.2	11.0	9.0	86
06...	1326	30.0	2410	8.2	11.0	8.9	85
06...	1329	40.0	2430	8.1	11.0	8.2	78
06...	1332	57.0	2450	8.0	11.0	8.0	76
MAY							
16...	1251	1.00	2420	8.4	23.0	8.2	101
16...	1254	10.0	2440	8.4	21.5	8.0	95
16...	1258	20.0	2430	8.2	20.5	6.4	75
16...	1301	30.0	2460	8.1	19.5	5.8	67
16...	1304	40.0	2470	7.9	18.0	4.6	51
16...	1308	50.0	2490	7.6	16.0	2.4	26
16...	1312	56.0	2520	7.6	15.5	2.0	21
JUL							
26...	1351	1.00	2630	8.1	29.5	6.0	82
26...	1354	10.0	2630	8.0	28.5	5.9	80
26...	1357	20.0	2640	7.8	28.0	4.9	66
26...	1400	30.0	2700	7.4	26.5	1.1	14
26...	1404	40.0	2750	7.4	25.0	0.3	4
26...	1407	50.0	2730	7.4	23.5	0.3	4
26...	1410	58.0	2630	7.5	21.0	0.4	5

08088500 POSSUM KINGDOM LAKE NEAR GRAFORD, TX--Continued

325125098323701 - POSSUM KINGDOM LAKE SITE P05

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1434	1.00	2320	8.2	11.0	9.3	89
06...	1437	10.0	2310	8.2	10.0	9.3	87
06...	1440	25.0	2310	8.2	10.0	9.6	89
MAY							
16...	1415	1.00	2430	8.3	21.5	7.4	88
16...	1418	10.0	2440	8.3	21.0	7.2	85
16...	1421	15.0	2440	8.3	20.5	6.8	80
16...	1425	24.0	2430	8.1	20.5	5.7	67
JUL							
26...	1510	1.00	2680	8.2	30.0	6.0	83
26...	1513	10.0	2680	8.0	28.5	5.5	74
26...	1516	24.0	2680	7.6	28.0	1.2	16

325301098342901 - POSSUM KINGDOM LAKE SITE P07

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
06...	1500	1.00	2280	8.2	11.0	9.3	89
06...	1502	10.0	2280	8.2	10.5	9.2	87
06...	1505	20.0	2290	8.2	10.5	9.1	86
06...	1507	30.0	2280	8.2	10.0	8.9	83
06...	1510	40.0	2280	8.2	10.0	8.8	82
06...	1512	55.0	2260	8.1	10.5	8.6	81
MAY							
16...	1451	1.00	2430	8.4	24.5	7.9	100
16...	1455	10.0	2450	8.4	23.5	7.9	98
16...	1458	20.0	2450	8.3	21.5	6.7	80
16...	1501	30.0	2460	7.8	19.0	3.7	42
16...	1504	40.0	2460	7.6	17.0	1.8	20
16...	1508	50.0	2450	7.5	15.0	0.3	3
16...	1511	59.0	2450	7.5	15.0	0.5	5
JUL							
26...	1535	1.00	2600	8.2	30.5	6.0	84
26...	1538	10.0	2610	8.1	30.0	5.7	79
26...	1541	20.0	2640	7.8	29.5	4.7	65
26...	1544	30.0	2630	7.4	27.0	0.2	3
26...	1547	40.0	2680	7.4	25.5	0.2	3
26...	1550	50.0	2680	7.4	23.5	0.3	4
26...	1553	56.0	2680	7.5	23.5	0.5	6

08088610 BRAZOS RIVER NEAR GRAFORD, TX

LOCATION.--Lat 32°51'29", long 98°24'41", Palo Pinto County, Hydrologic Unit 1206021, 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 gaging station near Palo Pinto. Prior to Feb. 8, 1995 at site 1.25 mi. upstream.

DRAINAGE AREA.--23,596 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--October 1989 to current year. Prior to Feb. 8, 1995, published as Brazos River at Morris Sheperd Dam near Graford (station 08088600).

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level. Prior to Feb. 8, 1995 at datum 4.92 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Possum Kingdom Lake (station 08088500).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	403	421	372	307	326	106	109	453	289	220	83
2	60	219	63	63	76	765	108	265	138	80	98	362
3	325	267	62	844	77	115	677	128	135	373	1860	383
4	639	62	63	65	215	319	416	477	135	85	3090	79
5	369	62	406	267	78	108	594	414	135	101	3100	506
6	74	268	412	289	166	108	235	306	635	684	3070	524
7	76	62	774	64	281	511	594	462	705	751	6840	506
8	75	282	583	64	165	237	111	508	531	494	5050	502
9	77	62	665	283	181	103	716	399	521	593	2280	394
10	74	477	277	64	180	103	126	395	139	448	1740	75
11	73	66	834	517	180	106	545	399	139	423	1540	80
12	75	64	519	283	754	109	866	197	1510	873	506	79
13	77	62	558	195	406	110	524	908	2510	710	458	522
14	74	580	423	62	169	109	561	690	1440	706	430	513
15	72	854	415	61	218	108	109	767	186	499	742	757
16	71	865	415	281	171	109	357	737	138	88	395	981
17	73	91	424	61	63	110	588	812	617	353	480	232
18	73	1510	763	366	220	110	549	724	605	387	782	82
19	847	1840	760	388	66	112	586	768	716	88	488	507
20	73	1500	511	287	66	112	449	150	819	297	436	79
21	65	453	407	61	316	114	557	125	717	701	477	488
22	61	401	769	547	314	113	111	782	706	609	83	483
23	62	750	420	298	319	112	337	138	709	693	499	394
24	63	437	61	513	318	113	493	120	694	712	490	398
25	559	89	783	288	401	116	110	128	688	769	501	385
26	64	89	784	293	232	114	648	129	708	718	386	568
27	62	474	276	64	373	196	300	129	124	711	282	598
28	442	743	278	389	250	106	502	532	783	750	391	524
29	229	1400	372	66	---	195	482	647	1560	1140	398	526
30	62	1100	999	369	---	106	295	545	122	1050	483	81
31	557	---	524	385	---	105	---	936	---	104	487	---
TOTAL	5563	15532	15021	8149	6562	5180	12652	13826	19018	16279	38082	11691
MEAN	179	518	485	263	234	167	422	446	634	525	1228	390
MAX	847	1840	999	844	754	765	866	936	2510	1140	6840	981
MIN	60	62	61	61	63	103	106	109	122	80	83	75
AC-FT	11030	30810	29790	16160	13020	10270	25100	27420	37720	32290	75540	23190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995#, BY WATER YEAR (WY)

MEAN	517	334	1454	551	1638	1398	1776	2380	3484	604	756	729
MAX	1819	656	7172	2197	8659	4948	7952	8503	8024	1201	1228	1507
(WY)	1992	1992	1992	1992	1992	1992	1990	1990	1992	1992	1995	1991
MIN	142	109	78.9	93.5	58.6	79.2	126	446	336	251	338	287
(WY)	1993	1994	1994	1994	1994	1994	1994	1995	1994	1990	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995#	
ANNUAL TOTAL	168811		167555			
ANNUAL MEAN	462		459		1296	
HIGHEST ANNUAL MEAN					3170	1992
LOWEST ANNUAL MEAN					396	1994
HIGHEST DAILY MEAN	12000	May 16	6840	Aug 7	43800	May 5 1990
LOWEST DAILY MEAN	14	Feb 14	60	Oct 1	14	Feb 14 1994
ANNUAL SEVEN-DAY MINIMUM	17	Feb 11	74	Oct 11	17	Feb 11 1994
INSTANTANEOUS PEAK FLOW			8440	Aug 7	43800	May 5 1990
INSTANTANEOUS PEAK STAGE			77.99	Aug 7	89.79	Apr 26 1990
ANNUAL RUNOFF (AC-FT)	334800		332300		939000	
10 PERCENT EXCEEDS	754		782		1890	
50 PERCENT EXCEEDS	110		373		389	
90 PERCENT EXCEEDS	36		73		37	

Period of regulated streamflow.

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 100 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 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--January 1924 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "near Mineral Wells" 1924-33.

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. 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 datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Since 1941, flow largely regulated by Possum Kingdom Lake (station 08088500) 20 mi upstream. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--16 years (water years 1925-40) prior to completion of Possum Kingdom Lake, 1,262 ft³/s (914,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-40).--Maximum discharge, 95,600 ft³/s June 16, 1930, at site 19 mi downstream from Mineral Wells (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 June 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	483	1410	353	381	330	88	505	984	153	2180	651
2	95	294	460	396	229	758	80	218	610	323	1250	126
3	116	238	221	346	89	775	78	426	166	105	935	429
4	206	260	183	744	105	200	76	255	113	416	3220	493
5	516	102	164	202	249	281	891	780	113	615	3310	111
6	296	80	613	389	112	89	750	828	122	165	3240	587
7	109	236	969	219	218	145	1160	576	762	828	7790	661
8	88	98	899	88	390	720	629	1240	833	890	9740	655
9	71	270	1010	186	247	189	979	928	659	597	2530	658
10	67	131	1190	215	235	89	359	748	665	731	1930	533
11	65	389	451	81	217	84	1060	697	1080	549	1690	121
12	65	104	1070	739	508	83	384	758	816	563	1380	87
13	65	82	766	298	1040	98	981	612	3130	1050	544	90
14	68	502	838	197	394	139	1340	993	2160	917	497	618
15	70	735	701	83	210	145	910	1260	1310	893	527	728
16	68	887	972	185	330	180	958	916	210	645	1030	955
17	67	809	691	220	209	168	341	1140	163	116	538	1210
18	184	655	678	90	123	140	628	1080	747	403	634	365
19	532	2000	1170	577	253	132	942	1120	795	457	995	186
20	567	3290	841	495	91	124	909	240	902	93	646	631
21	147	1740	1050	225	131	111	1080	155	1020	298	575	167
22	92	852	752	86	472	108	787	970	926	851	611	661
23	79	1010	1160	766	500	105	931	1100	939	754	117	635
24	523	781	402	354	385	102	442	473	918	842	567	523
25	444	612	191	640	583	98	611	231	902	849	614	536
26	353	286	1500	226	524	93	310	183	938	921	619	533
27	117	256	436	321	427	90	1050	146	894	867	493	754
28	346	930	374	110	420	91	441	183	161	847	343	782
29	230	1450	235	450	---	174	813	683	1970	1010	481	705
30	151	1660	904	250	---	90	801	770	996	1350	640	696
31	203	---	1110	444	---	169	---	969	---	1300	639	---
TOTAL	6390	21222	23411	9975	9072	6100	20809	21183	26004	20398	50305	15887
MEAN	206	707	755	322	324	197	694	683	867	658	1623	530
MAX	567	3290	1500	766	1040	775	1340	1260	3130	1350	9740	1210
MIN	65	80	164	81	89	83	76	146	113	93	117	87
AC-FT	12670	42090	46440	19790	17990	12100	41270	42020	51580	40460	99780	31510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995#, BY WATER YEAR (WY)

MEAN	1408	532	484	442	536	510	900	2144	1868	907	764	1020
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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995#	
ANNUAL TOTAL	163657		230756			
ANNUAL MEAN	448		632		961	
HIGHEST ANNUAL MEAN					4145	1957
LOWEST ANNUAL MEAN					98.5	1988
HIGHEST DAILY MEAN	7060	May 16	9740	Aug 8	81700	Apr 29 1957
LOWEST DAILY MEAN	17	Mar 28	65	Oct 11	3.4	Apr 15 1949
ANNUAL SEVEN-DAY MINIMUM	30	Apr 13	67	Oct 10	5.6	Nov 2 1940
INSTANTANEOUS PEAK FLOW			13500	Aug 7	85400	Apr 29 1957
INSTANTANEOUS PEAK STAGE			11.99	Aug 7	28.87	Apr 29 1957
ANNUAL RUNOFF (AC-FT)	324600		457700		696500	
10 PERCENT EXCEEDS	892		1090		1700	
50 PERCENT EXCEEDS	206		502		223	
90 PERCENT EXCEEDS	45		94		30	

Period of regulated streamflow.

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 589.98.

DRAINAGE AREA.--25,237 mi², of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1968 to current year.

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.

REMARKS.--No estimated daily discharges. Records good. Flow is largely regulated by releases from Possum Kingdom Lake (station 08088500) 96 mi upstream on the Brazos River, and by Lake Palo Pinto (station 08090300, discontinued) 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 a 53.0 mi² area in the East Keechi and Pollard Creeks drainage basins. There are many diversions above station for irrigation, municipal supply and oil field operations. Satellite telemeter at station.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	312	1270	753	247	281	177	578	784	1410	8730	614
2	337	253	1170	808	256	363	182	589	1130	596	18200	596
3	357	368	849	428	318	292	147	528	687	300	10600	572
4	250	453	484	393	283	557	140	371	537	280	3520	327
5	180	354	306	332	205	580	520	940	319	268	3480	346
6	158	358	248	571	149	300	1400	4350	247	763	3860	451
7	379	294	216	297	127	293	1580	2180	261	963	3620	291
8	351	213	293	301	177	231	1050	8990	260	485	5630	436
9	286	195	653	327	149	182	797	5130	645	704	9880	553
10	197	294	797	227	163	376	782	2680	599	572	3520	567
11	153	256	919	181	261	333	630	1450	1080	539	2820	547
12	133	299	808	220	217	224	774	1020	4000	488	2160	478
13	121	344	581	202	207	261	490	879	1780	417	2000	1150
14	116	569	682	343	324	458	1010	799	2160	633	1190	1480
15	114	1820	601	330	603	525	818	964	2630	670	870	1060
16	112	2090	575	253	417	408	814	944	1660	685	767	839
17	114	1390	503	204	267	509	684	1090	772	639	881	1000
18	960	1140	604	164	212	397	395	856	372	513	922	1810
19	1780	826	480	196	261	318	575	1100	308	382	741	4890
20	622	4430	508	204	202	264	858	942	594	392	1010	3620
21	1760	8970	728	249	158	227	1090	976	696	512	858	1370
22	2410	3950	545	401	186	200	790	736	780	278	732	937
23	863	1770	621	335	150	181	788	380	769	340	689	591
24	496	1160	520	212	128	170	686	1620	722	619	656	611
25	439	1220	678	347	290	163	392	1150	714	641	397	606
26	565	896	379	352	316	172	441	756	718	701	563	526
27	929	689	254	447	303	169	570	455	706	752	644	515
28	746	491	963	335	397	161	447	334	739	764	631	590
29	418	399	513	230	---	163	698	273	535	747	548	594
30	323	712	439	236	---	174	460	243	681	780	438	660
31	390	---	384	229	---	181	---	550	---	1360	521	---
TOTAL	16278	36515	18571	10107	6973	9113	20185	43853	27885	19193	91078	28627
MEAN	525	1217	599	326	249	294	673	1415	929	619	2938	954
MAX	2410	8970	1270	808	603	580	1580	8990	4000	1410	18200	4890
MIN	112	195	216	164	127	161	140	243	247	268	397	291
AC-FT	32290	72430	36840	20050	13830	18080	40040	86980	55310	38070	180700	56780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	1725	745	847	518	794	994	1146	2106	2286	723	899	749
MAX	17690	5000	12240	2835	9530	5970	13320	12090	13490	4376	7600	2666
(WY)	1982	1975	1992	1992	1992	1992	1990	1990	1982	1982	1978	1971
MIN	69.6	78.9	73.0	78.8	33.9	26.7	27.1	30.4	61.7	37.0	56.6	14.9
(WY)	1983	1980	1969	1969	1971	1971	1971	1988	1971	1978	1988	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	224185		328378			
ANNUAL MEAN	614		900		1130	
HIGHEST ANNUAL MEAN					4141	1982
LOWEST ANNUAL MEAN					120	1988
HIGHEST DAILY MEAN	13600	May 14	18200	Aug 2	87700	Oct 14 1981
LOWEST DAILY MEAN	27	Apr 19	112	Oct 16	1.2	Aug 2 1978
ANNUAL SEVEN-DAY MINIMUM	32	Apr 17	123	Oct 11	3.0	Jul 29 1978
INSTANTANEOUS PEAK FLOW			19000	Aug 2	96600	Oct 14 1981
INSTANTANEOUS PEAK STAGE			18.12	Aug 2	31.85	Oct 14 1981
ANNUAL RUNOFF (AC-FT)	444700		651300		818800	
10 PERCENT EXCEEDS	1060		1600		2150	
50 PERCENT EXCEEDS	261		535		292	
90 PERCENT EXCEEDS	68		197		48	

08090800 BRAZOS RIVER NEAR DENNIS, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1970 to current year.
WATER TEMPERTURE: October 1970 to current year.

REMARKS.--Mean monthly, annual concentrations, and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,410 microsiemens Apr. 18, 1984; minimum daily, 200 microsiemens Oct. 13, 1981.
WATER TEMPERATURE: Maximum daily, 38.5°C July 26, 1976; minimum daily, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,040 microsiemens Oct. 3; minimum daily, 284 microsiemens Aug. 3.
WATER TEMPERATURE: Maximum daily, 35.0°C on July 11 and 28; minimum daily, 5.0°C Jan. 5 and 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
DEC									
08...	1015	222	2200	7.6	15.0	430	290	110	38
JAN									
18...	1040	167	2330	8.1	11.0	440	260	110	40
MAR									
08...	1630	217	2520	7.6	11.0	440	310	110	41
MAY									
02...	1530	556	2200	8.2	20.0	420	300	110	35
JUN									
06...	1655	237	2040	7.8	32.0	430	280	110	38
JUL									
18...	1010	380	2310	8.2	30.0	380	260	90	38

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC									
08...	300	6	6.4	150	290	470	0.40	6.2	1310
JAN									
18...	330	7	6.3	180	300	500	0.3	3.5	1400
MAR									
08...	350	7	4.0	130	320	540	0.4	3.8	1450
MAY									
02...	300	6	6.7	120	260	470	0.4	3.4	1260
JUN									
06...	290	6	6.4	150	250	440	0.4	4.8	1230
JUL									
18...	310	7	7.2	120	270	510	0.40	4.9	1300

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.	1994	16278	1290	733	32200	260	11300	170	7290	250
NOV.	1994	36515	1280	711	70100	240	24100	160	15600	260
DEC.	1994	18571	2460	1430	71700	520	25900	330	16600	450
JAN.	1995	10107	2440	1410	38600	510	13900	330	8910	450
FEB.	1995	6973	2430	1410	26500	510	9550	320	6110	450
MAR.	1995	9113	2130	1220	30100	440	10800	280	6910	400
APR.	1995	20185	2050	1170	64000	420	22700	270	14600	390
MAY	1995	43853	1280	715	84700	250	29400	160	19000	250
JUNE	1995	27885	1870	1070	80400	380	28500	240	18300	350
JULY	1995	19193	2290	1320	68300	470	24500	300	15700	430
AUG.	1995	91078	1490	851	209000	300	74600	190	47900	280
SEPT	1995	28627	1490	850	65700	300	23300	190	15000	290
TOTAL		328378	**	**	842000	**	299000	**	192000	**
WTD.AVG.		900	1660	949	**	340	**	220	**	320

08090800 BRAZOS RIVER NEAR DENNIS, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2980	839	2260	2530	2500	2600	1840	e2410	1480	2480	501	2760
2	3030	1130	2660	2500	2460	2600	1930	2460	2230	2460	550	2690
3	3040	1690	2630	2470	2450	2580	1980	2150	2180	2430	284	2700
4	3010	2190	2600	2480	2480	2570	1990	2170	2280	2410	393	2680
5	2990	2240	2420	2450	2430	2590	1630	2300	2120	2320	549	2380
6	2880	2410	2230	2510	2440	2580	1700	667	2070	2050	2090	2610
7	2930	2540	e2300	2450	2450	2570	1800	1280	2120	1760	2290	2640
8	2920	2550	2190	2460	2410	2580	1400	547	1750	1600	2500	2660
9	2960	2330	2180	2510	2410	2510	1490	823	2310	1610	2550	2760
10	2890	2230	2320	2440	2410	e2560	1590	1110	2370	1400	2480	2790
11	2880	2470	2380	2340	2450	2580	1620	1060	794	2110	2500	2780
12	e2870	2510	2530	2290	2390	2540	1920	1230	858	2350	2520	2700
13	2860	2510	2350	2410	2350	2130	2000	1220	1410	2420	2460	2210
14	2710	2550	2300	2400	2380	1720	2280	1590	815	2470	2430	760
15	2630	672	2410	2380	2460	1490	2390	1810	2330	2520	e2410	783
16	2580	1200	2420	2410	2460	1610	2440	2020	2320	2520	2400	1570
17	2480	1430	2290	2420	2460	1910	2460	2210	2280	2430	2430	1860
18	731	1110	2520	2010	2430	2050	2370	2260	2140	2290	2510	1290
19	764	1180	2460	2280	2400	1890	2380	2350	2080	2170	2480	332
20	844	825	2480	2370	2440	e1820	2190	2400	2360	2320	2530	660
21	811	1230	2640	2340	2370	1750	2370	2460	2400	2440	2570	805
22	580	671	2610	2410	2380	1720	2380	2480	2420	2320	2590	1550
23	800	1320	2640	2440	2330	1790	2190	2360	2460	2000	2580	1540
24	1030	1420	2580	2400	2340	1800	2160	827	2470	2060	2500	1940
25	1080	1460	2670	2440	2420	1740	2170	1810	2490	2480	2470	2240
26	856	1580	2600	e2450	2380	1740	2270	1970	2500	e2500	2490	2200
27	1030	1890	2540	2450	2390	1760	2300	1950	2480	2540	2590	2340
28	1300	1730	2540	2480	2480	1750	2310	1930	2510	2540	2640	2500
29	967	1760	2470	2440	---	e1760	2430	1710	2510	2560	2620	2560
30	1080	2000	2400	2470	---	1760	2380	1680	2430	2570	2620	2640
31	1020	---	2400	2440	---	1810	---	1460	---	2360	2600	---
MEAN	1980	1720	2450	2420	2420	2090	2080	1760	2100	2270	2170	2060
MAX	3040	2550	2670	2530	2500	2600	2460	2480	2510	2570	2640	2790
MIN	580	671	2180	2010	2330	1490	1400	547	794	1400	284	332

WTR YR 1995 MEAN 2130 MAX 3040 MIN 284

e Estimated

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	19.0	11.0	9.0	12.0	9.0	18.0	---	29.0	29.0	25.0	32.0
2	27.0	18.0	12.0	8.0	13.5	6.0	20.0	22.0	30.0	27.0	26.0	33.0
3	27.0	23.0	14.0	7.0	14.0	6.0	18.5	18.0	28.0	31.0	26.0	29.0
4	28.0	22.0	15.0	6.0	12.0	7.0	18.0	22.0	30.0	31.0	29.0	28.0
5	27.5	19.0	16.0	5.0	13.0	7.0	17.0	22.0	30.0	30.0	30.0	32.0
6	26.0	17.0	17.0	8.5	13.5	14.0	20.5	20.0	31.0	31.0	28.0	32.0
7	23.0	20.0	15.0	6.0	9.0	10.5	22.0	22.0	31.5	31.0	28.0	30.0
8	22.0	20.0	13.0	10.0	10.0	10.0	25.0	18.0	31.5	33.0	27.0	29.0
9	17.0	19.0	9.5	11.5	12.0	12.0	26.0	23.5	30.0	29.0	27.5	27.0
10	20.0	16.0	10.0	14.5	14.5	---	15.0	25.0	31.0	34.0	30.0	27.0
11	21.5	16.0	9.0	15.0	10.0	15.0	18.0	23.0	26.0	35.0	29.5	29.0
12	---	15.0	8.5	15.0	8.0	15.0	21.0	25.0	26.0	34.5	31.0	27.5
13	22.0	15.0	9.0	13.5	7.0	15.0	25.0	28.5	30.0	34.0	29.0	27.0
14	19.5	17.0	9.5	13.0	7.0	15.0	22.0	31.0	27.0	33.5	32.0	27.0
15	19.0	16.0	10.0	11.0	10.0	15.0	24.5	31.0	29.0	32.0	---	28.0
16	22.0	15.0	12.0	12.5	8.5	18.0	25.0	28.0	25.0	32.0	32.0	29.0
17	23.0	15.5	13.0	14.0	11.0	19.0	25.0	27.5	28.0	33.5	32.5	28.0
18	22.0	15.0	11.0	10.0	12.0	18.0	25.0	26.0	30.0	32.0	34.0	25.0
19	23.0	15.0	12.0	9.5	10.0	22.0	19.0	26.0	30.0	31.0	32.0	24.0
20	27.0	14.0	12.0	10.5	17.0	---	22.5	26.0	31.0	33.0	34.0	25.5
21	24.0	16.0	12.0	10.0	16.5	16.0	24.0	26.0	31.5	34.0	34.0	22.5
22	23.5	15.0	11.0	9.0	15.5	24.0	20.0	28.0	32.0	34.0	33.0	20.0
23	20.0	14.0	10.0	9.0	15.0	24.0	16.0	26.5	32.0	30.0	33.0	21.0
24	21.0	12.0	10.0	8.5	18.0	22.5	20.0	24.0	32.0	33.5	32.0	19.0
25	18.0	13.0	8.0	10.5	14.5	22.0	21.0	23.0	31.0	34.0	29.0	23.0
26	17.0	14.0	10.0	---	17.0	19.0	21.0	28.0	30.0	---	33.0	24.0
27	17.0	14.0	10.0	13.5	17.0	19.0	20.0	29.0	27.0	24.0	29.0	27.0
28	19.0	13.5	10.0	10.0	13.5	15.0	23.0	24.0	30.0	35.0	33.0	28.0
29	20.0	10.0	10.5	9.0	---	16.0	24.0	28.0	29.5	34.0	32.0	28.5
30	18.0	11.0	11.0	10.0	---	15.0	22.0	26.0	28.0	32.0	28.0	22.5
31	20.0	---	11.0	9.5	---	17.5	---	24.5	---	28.0	32.0	---
MEAN	22.0	16.0	11.4	10.3	12.5	15.3	21.3	25.0	29.6	31.8	30.3	26.8
MAX	28.0	23.0	17.0	15.0	18.0	24.0	26.0	31.0	32.0	35.0	34.0	33.0
MIN	17.0	10.0	8.0	5.0	7.0	6.0	15.0	18.0	25.0	24.0	25.0	19.0

WTR YR 1995 MEAN 21.1 MAX 35.0 MIN 5.0

08090900 LAKE GRANBURY NEAR GRANBURY, TX

LOCATION.--Lat 32°22'27", long 97°41'20", Hood County, Hydrologic Unit 12060201, at right end of spillway of DeCordova Bend Dam on Brazos River, 2.6 mi upstream from Fall Creek, 7.5 mi southeast of Granbury, and at mile 542.5.

DRAINAGE AREA.--25,679 mi², of which 9,566 mi² probably is noncontributing.

WATER-CONTENT RECORDS

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1.11 ft below sea level.

REMARKS.--The lake is formed by an Ambursen-type concrete and earthfill dam 2,256 ft long, including a 932-foot concrete spillway. The dam was completed on Aug. 30, 1969, and deliberate impoundment began Sept. 15, 1969. The spillway consists of sixteen 36- by 35-foot tainter gates and two 7- by 8-foot sluice gates. Outflow through the sluice gates discharges into a bay where the outflow is then controlled by two 4- by 4.5-foot 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 mi² in the East Keechi, Kickapoo, and Ruckers Creeks drainage basins. The lake was built by the Brazos River Authority for the conservation of water for irrigation, municipal, and industrial uses. Water is also diverted into Squaw Creek Reservoir. The city of Granbury returns sewage effluent into Lake Granbury. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Gage height (feet)	Capacity (acre-feet)
Top of dam	706.5	-
Top of tainter gates (design flood)	693.0	153,500
Crest of spillway	658.0	15,440
Lowest gated outlet (invert)	640.0	2,200

COOPERATION.--The capacity curve, based on data prepared by the Ambursen Engineering Corporation, was provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 158,800 acre-ft Mar. 27, 1977 (gage height, 693.60 ft); minimum since since normal operating level was reached in October 1969, 97,600 acre-ft Aug. 9, 1978 (gage height, 685.28 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 153,500 acre-ft May 8 at 0315 hours (gage height, 693.00 ft); minimum, 137,800 acre-ft Aug. 8 (gage height, 691.11 ft).

Capacity table (gage height, in feet, and contents, in acre-feet)

685.0	96,000	689.0	121,900	693.0	153,500
687.0	108,200	692.0	145,000	694.0	162,400

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148800	148600	149400	148500	149400	148300	148900	148300	146400	149400	151000	149400
2	148800	149300	149400	149400	149800	148100	149500	148500	148500	149800	150100	150000
3	149400	149200	149400	149000	149300	148200	149700	149400	148600	148300	146000	150000
4	149600	148800	148800	148000	148800	148800	149600	150800	148600	147300	147700	150000
5	149400	148100	148400	147800	148900	149500	149700	150200	150700	147700	148400	149900
6	148900	148900	148200	148600	148900	148600	149900	149100	148300	148500	148400	149300
7	149500	149400	148100	148500	148900	147900	149700	150700	148400	149400	142500	149200
8	149300	148900	148800	148600	148500	147400	148700	147600	148800	149000	140200	148400
9	148600	148700	149400	148600	148800	147800	148100	148400	149000	149200	151600	148300
10	148500	148300	149600	148700	148800	148300	147700	150900	150700	149900	149300	148200
11	148600	148800	149400	148800	149000	149100	147700	149000	149100	149000	149100	148000
12	148600	149400	149300	148800	149000	150100	148700	148200	147200	148500	149100	147700
13	148700	150000	148000	147800	149300	148300	148900	148700	147600	148500	148600	149000
14	148300	151300	148100	148000	148400	147000	148900	149600	149200	149100	149100	148300
15	148200	147800	148100	148300	147900	147700	148900	149900	149100	149000	148300	148300
16	148300	150000	147900	148800	147900	148000	148400	150400	148200	148300	147700	148300
17	148600	150300	147700	149200	147900	148700	149700	149700	147300	148300	148600	149300
18	149300	149300	148000	147600	148500	148900	148900	148900	147600	148500	150100	151000
19	149100	148300	148600	147000	149000	148900	149800	149600	148300	148300	151500	148500
20	149600	153100	148900	147800	149100	149100	150000	149800	149100	147600	151000	147400
21	149000	151200	149400	148300	149200	148600	150100	150500	150000	148300	149800	145700
22	150700	149800	149100	149400	149100	148800	150100	149400	149900	148300	148400	145800
23	148300	148100	148900	149500	149400	149400	149200	146900	149200	148500	148600	146600
24	148900	148000	148400	149400	148300	149600	150000	148800	149000	149000	148600	147500
25	149000	148900	148300	149300	148400	149300	149300	148700	148300	149400	148600	148500
26	149000	149500	148700	148900	149000	148700	150000	147800	148200	150100	148600	149000
27	150300	149600	149100	149000	149800	147500	150000	148400	148300	149400	149100	149000
28	150300	149000	149400	149000	149300	147200	149300	148300	149200	149100	149200	148900
29	149300	148300	147800	148900	---	147200	150700	147500	149800	149400	149400	149000
30	148100	148300	147400	148600	---	148000	148500	147600	148400	149400	149300	149300
31	148400	---	148300	148700	---	148700	---	147700	---	146800	149400	---
MAX	150700	153100	149600	149500	149800	150100	150700	150900	150700	150100	151600	151000
MIN	148100	147800	147400	147000	147900	147000	147700	146900	146400	146800	140200	145700
(+)	692.41	692.40	692.40	692.44	692.51	692.44	692.42	692.32	692.41	692.22	692.52	692.51
(@)	-400	-100	0	+400	+600	-600	-200	-800	+700	-1600	+2600	-100

CAL YR 1994 MAX 153100 MIN 145300 (@) 0
WTR YR 1995 MAX 153100 MIN 140200 (@) +500

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

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: September 1970 to current year.

322227097412101 - LAKE GRANBURY SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAR												
09...	1036	148000	1.00	1540	8.2	11.0	0.98	9.6	88	340	190	91
09...	1039	--	10.0	1540	8.2	10.5	--	9.6	87	--	--	--
09...	1042	--	20.0	1540	8.2	10.5	--	9.4	85	--	--	--
09...	1045	--	30.0	1550	8.1	10.5	--	9.2	84	--	--	--
09...	1048	--	40.0	1540	8.1	10.5	--	9.0	82	--	--	--
09...	1051	--	50.0	1540	8.1	10.5	--	9.0	82	--	--	--
09...	1055	--	63.0	1550	8.0	10.5	--	8.5	77	330	190	89
JUN												
07...	1033	148000	1.00	1130	8.1	26.0	1.52	6.0	77	240	120	65
07...	1037	--	10.0	1130	7.9	25.5	--	5.2	66	--	--	--
07...	1042	--	20.0	1150	7.6	25.0	--	3.6	45	--	--	--
07...	1046	--	30.0	1160	7.4	24.5	--	1.2	15	--	--	--
07...	1051	--	40.0	1230	7.3	23.5	--	0.2	2	--	--	--
07...	1055	--	50.0	1350	7.3	23.0	--	0.1	1	--	--	--
07...	1100	--	61.0	1490	7.3	22.5	--	0.1	1	310	150	81
SEP												
05...	1104	150000	1.00	1070	8.1	30.0	1.28	4.5	61	210	110	56
05...	1108	--	10.0	1070	7.9	30.0	--	3.9	53	--	--	--
05...	1112	--	20.0	1080	7.2	29.5	--	0.4	5	--	--	--
05...	1116	--	30.0	1990	7.0	28.5	--	0.4	5	--	--	--
05...	1120	--	40.0	2220	7.0	28.0	--	0.4	5	--	--	--
05...	1124	--	50.0	2240	7.0	27.5	--	0.4	5	--	--	--
05...	1127	--	62.0	2260	6.8	27.0	--	0.5	6	400	250	110

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR												
09...	27	200	5	6.0	150	180	310	0.30	6.8	911	0.060	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	27	200	5	6.1	150	190	310	0.30	6.9	917	0.050	--
JUN												
07...	19	130	4	5.6	120	130	200	0.30	5.1	628	0.060	0.060
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	0.240	--
07...	--	--	--	--	--	--	--	--	--	--	0.300	0.300
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	25	180	4	5.7	150	160	270	0.30	8.0	824	0.020	0.020
SEP												
05...	16	130	4	5.4	100	110	200	0.20	7.9	585	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	31	310	7	6.5	160	240	470	0.30	10	1280	--	--

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322227097412101 - LAKE GRANBURY SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR											
09...	<0.010	0.060	0.060	0.050	0.35	0.40	<0.010	<0.010	--	<3	2
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<0.010	0.050	0.050	0.110	0.29	0.40	<0.010	<0.010	--	<3	59
JUN											
07...	0.020	0.080	0.080	0.020	--	<0.20	<0.010	<0.010	--	<3	2
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	<0.010	0.240	0.240	0.030	0.17	0.20	<0.010	<0.010	--	30	<10
07...	0.010	0.310	0.310	0.040	0.16	0.20	<0.010	<0.010	--	20	40
07...	--	--	--	--	--	--	--	--	--	--	--
07...	0.060	0.080	0.080	0.440	0.26	0.70	0.130	0.120	0.37	120	1100
SEP											
05...	<0.010	--	<0.050	<0.015	--	0.40	0.020	<0.010	--	9	2
05...	<0.010	--	<0.050	<0.015	--	0.30	0.020	<0.010	--	<10	<10
05...	<0.010	--	<0.050	0.020	0.38	0.40	0.020	<0.010	--	20	10
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	<0.010	--	<0.050	1.70	0.40	2.1	0.300	0.290	0.89	180	1000

322231097412001 - LAKE GRANBURY SITE AL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR							
09...	1102	1.00	1540	8.2	11.0	9.6	88
09...	1105	10.0	1540	8.2	11.0	9.6	88
09...	1108	20.0	1540	8.2	11.0	9.5	87
09...	1111	30.0	1530	8.2	10.5	9.3	85
09...	1114	40.0	1540	8.1	10.5	9.0	82
09...	1116	50.0	1540	8.1	10.5	9.0	82
09...	1118	57.0	1540	8.1	10.5	9.2	84
JUN							
07...	1107	1.00	1130	8.1	26.0	6.0	77
07...	1110	10.0	1130	8.0	26.0	5.7	73
07...	1113	20.0	1150	7.7	25.0	4.0	50
07...	1116	30.0	1170	7.4	24.5	1.5	19
07...	1119	40.0	1240	7.3	23.5	0.2	2
07...	1122	55.0	1470	7.4	22.5	0.3	4
SEP							
05...	1131	1.00	1070	8.2	30.5	4.9	67
05...	1133	10.0	1060	8.1	30.0	4.3	58
05...	1135	20.0	1210	7.3	29.5	0.3	4
05...	1138	30.0	1950	7.2	29.0	0.3	4
05...	1141	40.0	2120	7.2	28.0	0.4	5
05...	1145	51.0	2230	7.2	28.0	0.4	5

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322345097421901 - LAKE GRANBURY SITE BR

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1154	1.00	1560	8.2	11.0	9.6	88
09...	1156	10.0	1560	8.2	11.0	9.6	88
09...	1158	20.0	1560	8.2	11.0	9.4	86
09...	1200	30.0	1550	8.1	11.0	9.0	83
09...	1202	42.0	1550	8.1	11.0	9.1	84
JUN							
07...	1158	1.00	1110	8.3	27.0	6.8	89
07...	1201	10.0	1120	8.3	27.0	6.7	88
07...	1204	20.0	1140	8.0	26.5	5.5	71
07...	1207	30.0	1220	7.4	25.0	0.6	8
07...	1210	42.0	1200	7.4	24.5	0.3	4
SEP							
05...	1225	1.00	1260	8.3	31.5	5.6	78
05...	1227	10.0	1280	8.2	31.0	5.0	69
05...	1229	20.0	1730	7.3	30.0	0.2	3
05...	1232	30.0	2120	7.3	29.0	0.3	4
05...	1235	40.0	2250	7.3	28.5	0.3	4
05...	1237	49.0	2290	7.4	28.5	0.4	5

322341097420601 - LAKE GRANBURY SITE BC

WATER-QUALITY DATA, WAIER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR								
09...	1133	1.00	1570	8.2	11.0	0.91	9.6	88
09...	1135	10.0	1560	8.2	11.0	--	9.5	87
09...	1138	20.0	1560	8.2	11.0	--	9.4	86
09...	1141	30.0	1560	8.2	11.0	--	9.2	85
09...	1143	40.0	1560	8.2	10.5	--	9.2	84
09...	1146	50.0	1550	8.1	10.5	--	9.1	83
09...	1149	60.0	1560	8.1	10.5	--	9.1	83
JUN								
07...	1134	1.00	1110	8.3	27.0	1.43	6.7	88
07...	1137	10.0	1120	8.2	27.0	--	6.0	79
07...	1140	20.0	1120	8.0	26.5	--	5.0	65
07...	1143	30.0	1130	7.4	25.0	--	0.4	5
07...	1146	40.0	1220	7.3	24.0	--	0.1	1
07...	1149	50.0	1220	7.4	23.0	--	0.1	1
07...	1152	59.0	1400	7.4	23.0	--	0.2	2
SEP								
05...	1157	1.00	1250	8.3	31.5	1.19	5.6	78
05...	1200	10.0	1260	8.2	31.0	--	5.4	75
05...	1204	20.0	1710	7.3	30.0	--	0.2	3
05...	1207	30.0	2090	7.2	29.0	--	0.3	4
05...	1210	40.0	2240	7.2	28.5	--	0.3	4
05...	1214	50.0	2320	7.2	28.0	--	0.4	5
05...	1218	59.0	2370	7.2	27.5	--	0.5	7

322337097415401 - LAKE GRANBURY SITE BL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1208	1.00	1560	8.2	11.0	9.4	86
09...	1210	10.0	1560	8.2	11.0	9.2	85
09...	1213	20.0	1560	8.2	11.0	9.2	85
09...	1215	30.0	1560	8.2	11.0	9.4	86
JUN							
07...	1217	1.00	1110	8.3	27.5	6.6	87
07...	1220	10.0	1110	8.3	27.0	6.6	86
07...	1223	20.0	1120	8.0	26.5	5.4	70
07...	1226	31.0	1180	7.5	25.0	0.8	10
SEP							
05...	1244	1.00	1230	8.3	31.5	5.5	77
05...	1247	10.0	1260	8.2	31.0	5.1	71
05...	1250	20.0	1610	7.4	30.0	0.3	4
05...	1253	31.0	2060	7.5	29.5	0.4	5

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322537097414501 - LAKE GRANBURY SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR								
09...	1232	1.00	1480	8.3	11.0	0.52	10.4	96
09...	1234	13.0	1360	8.3	10.5	--	10.8	98
JUN								
07...	1237	1.00	1120	8.3	29.0	--	6.8	92
07...	1239	5.00	1110	8.3	28.5	--	6.5	87
07...	1242	13.0	1060	8.2	28.5	--	5.8	78
SEP								
05...	1307	1.00	1270	8.3	32.0	0.91	5.7	80
05...	1310	13.0	1250	8.2	31.0	--	4.6	64

322422097423901 - LAKE GRANBURY SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR								
09...	1250	1.00	1620	8.2	15.5	--	9.4	96
09...	1252	10.0	1610	8.2	12.5	--	9.1	87
09...	1255	20.0	1640	8.1	12.0	--	8.4	79
09...	1258	30.0	1640	8.2	11.5	--	8.7	81
09...	1301	40.0	1670	8.1	11.5	--	8.5	79
09...	1304	54.0	1790	8.0	11.5	--	8.6	80
JUN								
07...	1258	1.00	1140	8.1	29.0	0.82	6.0	81
07...	1301	10.0	1100	8.2	27.5	--	5.8	77
07...	1304	20.0	1320	7.7	26.0	--	2.8	36
07...	1307	30.0	1450	7.5	25.5	--	1.5	19
07...	1310	40.0	1480	7.4	25.0	--	0.4	5
07...	1313	52.0	1500	7.4	23.5	--	0.3	4
SEP								
05...	1325	1.00	1440	8.0	33.5	1.07	4.4	64
05...	1328	10.0	1370	7.8	31.0	--	3.2	44
05...	1331	20.0	2050	7.3	30.5	--	0.3	4
05...	1334	30.0	2170	7.4	29.5	--	0.3	4
05...	1338	40.0	2380	7.3	28.5	--	0.3	4
05...	1341	54.0	2410	7.3	28.0	--	0.4	5

322437097423901 - LAKE GRANBURY SITE DL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1310	1.00	1610	8.2	16.0	9.6	99
09...	1313	10.0	1610	8.2	12.5	8.8	84
09...	1317	19.0	1620	8.0	12.5	8.3	79
JUN							
07...	1319	1.00	1150	8.0	29.5	5.7	78
07...	1322	10.0	1110	8.1	27.5	5.4	71
07...	1325	19.0	1280	7.7	27.0	3.4	45
SEP							
05...	1348	1.00	1440	7.9	31.5	3.1	43
05...	1350	10.0	1390	7.7	31.5	2.8	39
05...	1353	18.0	1940	7.4	31.0	0.4	6

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322458097443101 - LAKE GRANBURY SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1327	1.00	1630	8.2	14.0	9.8	96
09...	1330	10.0	1630	8.2	13.5	9.6	93
09...	1333	20.0	1670	8.2	11.5	8.8	82
09...	1336	30.0	1670	8.2	11.5	8.9	83
09...	1339	40.0	1690	8.2	11.5	8.5	79
09...	1342	50.0	1730	8.1	11.5	8.2	76
JUN							
07...	1336	1.00	1140	8.3	29.5	6.9	94
07...	1339	10.0	1130	8.2	29.0	6.8	92
07...	1343	20.0	1150	8.1	28.0	5.7	76
07...	1346	30.0	1510	7.5	26.0	1.3	17
07...	1349	40.0	1490	7.4	25.0	0.5	6
07...	1352	49.0	1370	7.4	24.0	0.4	5
SEP							
05...	1411	1.00	1440	8.1	32.5	5.1	72
05...	1414	10.0	1440	8.0	32.0	4.7	66
05...	1417	20.0	1780	7.4	30.5	0.6	8
05...	1420	30.0	2210	7.3	30.0	0.2	3
05...	1423	40.0	2360	7.3	29.0	0.2	3
05...	1425	50.0	2410	7.2	28.0	0.4	5

322619097463301 - LAKE GRANBURY SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MAR											
09...	1439	1.00	1750	8.3	11.0	10.4	96	370	210	100	30
09...	1442	10.0	1750	8.3	11.0	10.0	93	--	--	--	--
09...	1445	20.0	1750	8.2	10.5	9.2	84	--	--	--	--
09...	1449	30.0	1820	8.2	10.5	8.5	77	--	--	--	--
09...	1452	38.0	1950	7.9	10.5	6.7	61	390	230	100	35
JUN											
07...	1410	1.00	1120	8.4	28.5	7.4	99	240	120	64	19
07...	1414	10.0	1110	8.3	28.0	6.7	89	--	--	--	--
07...	1419	20.0	1130	8.2	27.5	6.1	81	--	--	--	--
07...	1423	30.0	1420	7.9	27.5	3.8	50	--	--	--	--
07...	1427	37.0	1540	7.6	26.5	1.1	14	310	160	81	25
SEP											
05...	1510	1.00	1410	8.4	32.0	6.6	93	260	150	68	21
05...	1514	10.0	1390	8.1	31.0	4.7	65	--	--	--	--
05...	1519	20.0	1600	7.7	31.0	2.6	36	--	--	--	--
05...	1523	30.0	2230	7.4	30.0	0.3	4	--	--	--	--
05...	1527	36.0	2300	7.4	30.0	0.4	5	410	260	110	32

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
MAR											
09...	230	5	6.1	160	74	43	0.30	5.3	585	--	<0.010
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	260	6	5.7	170	240	410	0.30	5.2	1160	0.050	<0.010
JUN											
07...	120	3	5.6	120	120	190	0.30	5.4	596	--	<0.010
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	190	5	6.1	150	170	290	0.30	7.6	860	--	0.020
SEP											
05...	180	5	6.0	110	150	280	0.30	8.1	778	--	<0.010
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	<0.010
05...	--	--	--	--	--	--	--	--	--	--	<0.010
05...	310	7	6.3	150	250	480	0.30	9.8	1290	--	<0.010

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322619097463301 - LAKE GRANBURY SITE FC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR										
09...	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	<3	2
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	0.050	0.050	0.100	0.30	0.40	<0.010	0.010	0.03	<10	40
JUN										
07...	--	<0.050	0.020	--	<0.20	<0.010	<0.010	--	<3	7
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	<0.050	0.320	0.28	0.60	<0.010	0.010	0.03	<3	560
SEP										
05...	--	<0.050	<0.015	--	0.40	0.010	<0.010	--	<3	6
05...	--	--	--	--	--	--	--	--	--	--
05...	--	<0.050	0.020	0.28	0.30	0.030	<0.010	--	20	30
05...	--	<0.050	0.340	0.36	0.70	0.030	0.020	0.06	40	920
05...	--	<0.050	0.730	0.37	1.1	0.080	0.080	0.25	230	1400

322703097451401 - LAKE GRANBURY SITE GC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR							
09...	1508	1.00	1770	8.4	11.5	10.8	101
09...	1512	10.0	1760	8.4	11.0	10.6	98
09...	1517	23.0	1720	8.3	11.0	10.6	98
JUN							
07...	1444	1.00	1100	8.4	29.0	7.5	102
07...	1447	10.0	1120	8.4	29.0	6.5	88
07...	1450	23.0	1060	7.8	28.0	2.5	33
SEP							
05...	1341	1.00	1350	8.6	32.0	7.0	99
05...	1343	10.0	1370	8.5	31.5	6.4	89
05...	1346	23.0	1460	7.7	31.5	1.3	18

322834097470801 - LAKE GRANBURY SITE HC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR							
09...	1537	1.00	1990	8.4	10.5	11.0	101
09...	1540	10.0	2080	8.3	9.0	10.4	92
09...	1543	20.0	2100	8.2	8.5	9.8	86
09...	1546	30.0	2100	8.2	9.0	10.1	89
JUN							
07...	1514	1.00	1460	8.1	28.5	6.0	81
07...	1517	10.0	1460	8.0	27.5	5.3	70
07...	1520	20.0	1580	7.9	27.5	4.4	58
07...	1523	30.0	1580	7.8	27.5	3.3	44
SEP							
05...	1607	1.00	1420	8.4	31.0	5.9	82
05...	1610	10.0	1510	8.2	30.5	4.9	67
05...	1613	20.0	1760	7.9	31.0	3.7	51
05...	1616	31.0	2250	7.5	31.0	0.8	11

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

322819097483201 - LAKE GRANBURY SITE IC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1601	1.00	2060	8.3	10.0	10.7	97
09...	1604	10.0	2080	8.2	10.0	9.9	90
09...	1607	14.0	2100	8.2	9.0	9.7	86
JUN							
07...	1536	1.00	1550	8.0	28.5	5.8	78
07...	1540	5.00	1590	8.0	28.0	5.2	69
07...	1544	14.0	1550	7.7	27.5	2.6	34
SEP							
05...	1630	1.00	1630	8.2	30.5	5.3	73
05...	1633	13.0	1600	7.9	30.0	3.8	52

323318097480101 - LAKE GRANBURY SITE JC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR							
09...	1628	1.00	2340	8.2	10.5	10.6	97
09...	1630	10.0	2340	8.2	9.5	10.4	93
09...	1633	21.0	2330	8.1	9.5	10.0	90
JUN							
07...	1606	1.00	1760	8.2	29.5	6.9	95
07...	1609	10.0	1910	8.0	28.5	5.3	71
07...	1612	21.0	2060	7.5	28.0	1.4	19
SEP							
05...	1657	1.00	2590	8.2	32.0	6.4	90
05...	1700	10.0	2600	8.0	31.0	4.8	67
05...	1704	21.0	2580	7.4	30.5	0.5	7

323435097492001 - LAKE GRANBURY SITE KC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)
MAR										
09...	1648	1.00	2340	8.2	11.0	10.4	97	440	300	110
09...	1652	10.0	2330	8.2	10.0	10.0	91	--	--	--
09...	1657	17.0	2360	8.1	10.0	9.8	89	440	300	110
JUN										
07...	1630	1.00	2160	8.3	30.5	7.1	99	420	280	110
07...	1635	10.0	2150	8.0	28.5	5.4	73	--	--	--
07...	1641	16.0	2170	7.6	28.0	1.8	24	420	270	110
SEP										
05...	1721	1.00	2620	8.2	32.0	5.9	83	460	330	120
05...	1727	10.0	2620	8.1	30.5	5.1	70	--	--	--
05...	1734	17.0	2620	8.0	30.5	4.9	68	460	330	120

08090900 LAKE GRANBURY NEAR GRANBURY, TX--Continued

323435097492001 - LAKE GRANBURY SITE KC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
MAR									
09...	41	330	7	3.7	140	300	520	0.40	4.5
09...	--	--	--	--	--	--	--	--	--
09...	40	330	7	3.7	140	310	510	0.40	4.6
JUN									
07...	36	280	6	6.8	140	250	450	0.40	5.8
07...	--	--	--	--	--	--	--	--	--
07...	35	290	6	6.8	150	250	440	0.40	6.7
SEP									
05...	38	370	8	11	130	310	600	0.40	6.3
05...	--	--	--	--	--	--	--	--	--
05...	38	370	8	7.2	130	310	580	0.40	6.3

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR									
09...	1390	<0.010	<0.050	<0.015	0.30	<0.010	<0.010	20	20
09...	--	--	--	--	--	--	--	--	--
09...	1390	<0.010	<0.050	<0.015	0.30	<0.010	<0.010	<10	40
JUN									
07...	1230	<0.010	<0.050	0.020	<0.20	<0.010	<0.010	20	<10
07...	--	--	--	--	--	--	--	--	--
07...	1230	<0.010	<0.050	0.090	<0.20	<0.010	<0.010	20	560
SEP									
05...	1530	<0.010	<0.050	<0.015	0.30	0.010	<0.010	10	10
05...	--	<0.010	<0.050	<0.015	0.30	0.040	<0.010	20	<10
05...	1510	<0.010	<0.050	<0.015	0.30	0.020	<0.010	10	10

08091000 BRAZOS RIVER NEAR GLEN ROSE, TX

LOCATION.--Lat 32°16'18", long 97°39'48", Somervell County, Hydrologic Unit 12060201, at downstream side of bridge on U.S. Highway 67, 600 ft downstream from George's Creek, 4.1 mi upstream from Paluxy River, 6 mi northeast of Glen Rose, and at mile 511.2.

DRAINAGE AREA.--25,818 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--October 1923 to current year.
Water-quality records.--Chemical analyses: August to November 1946. Chemical and biochemical analyses: October 1980 to June 1987.

REVISED RECORDS.--WSP 1058: 1932. WSP 1512: 1946-47, 1949. WSP 1712: 1928(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 567.82 ft above sea level. Prior to May 7, 1931, nonrecording gage at site 2.5 mi downstream at same datum. May 7, 1931, to Sept. 30, 1957, water-stage recorder at site 2.4 mi downstream at same datum, used as supplementary gage Oct. 1, 1957, to Apr. 1, 1959. Apr. 27, 1950, to Sept. 30, 1957, water-stage recorder, present gage, used as supplementary gage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since September 1969, flow largely regulated by Lake Granbury (station 08090900) 31 mi upstream. There are many diversions above station for irrigation and municipal supplies, and for oil field operations. Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--46 years (water years 1924-69) prior to regulation by Lake Granbury, 1,567 ft³/s (1,135,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-69).--Maximum discharge, 97,600 ft³/s May 18, 1935 (gage height, 23.68 ft, from floodmarks); no flow at times prior to construction of Morris Sheppard Dam (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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	233	518	715	212	533	95	1430	1500	519	7000	265
2	221	188	1400	634	94	595	91	504	1040	425	18900	247
3	222	98	1560	846	56	292	79	675	360	396	27600	253
4	176	579	1370	1800	701	143	280	242	260	529	6710	289
5	95	1970	1200	748	244	136	593	69	259	477	3420	272
6	202	472	529	607	166	447	1760	50	1400	146	3090	264
7	218	93	487	574	163	765	2240	380	266	88	5130	271
8	305	63	490	558	153	600	2120	452	72	422	6270	277
9	435	742	557	568	153	194	1940	1040	49	543	3270	354
10	450	834	1670	559	155	66	644	666	390	208	6490	419
11	273	378	1700	326	154	51	1850	430	4290	329	3070	408
12	87	94	1580	285	160	52	441	2580	4040	508	2270	408
13	52	61	2170	1300	158	1370	143	1170	4440	187	2110	1300
14	39	51	1430	603	164	3010	514	692	230	119	1430	1580
15	147	3050	1350	308	710	2110	1070	462	2030	123	1100	947
16	275	1760	1270	286	763	952	1090	422	2770	638	1070	700
17	86	1200	1230	300	397	726	1060	1450	1550	638	316	775
18	63	1860	1080	581	138	636	1240	1450	716	254	78	3150
19	3260	1720	623	2010	74	567	668	726	142	216	69	7750
20	2120	2160	592	261	49	551	325	498	65	217	290	4790
21	2430	e8750	674	69	120	524	1210	487	47	225	1460	3080
22	1870	e9240	1260	53	137	675	780	646	156	120	1590	1310
23	2880	4220	1260	46	132	404	1600	1440	922	52	652	236
24	2070	2380	1250	185	134	131	622	1320	740	35	285	90
25	866	979	1210	275	453	109	465	741	598	64	256	70
26	805	952	1090	309	153	1630	463	1390	559	167	268	75
27	274	996	307	1040	141	1250	464	484	522	177	262	205
28	301	993	1010	348	139	1070	472	326	215	724	267	494
29	1270	979	2060	313	---	614	462	299	132	341	266	514
30	1160	998	1670	281	---	301	891	293	447	161	266	493
31	698	---	794	273	---	136	---	325	---	1470	270	---
TOTAL	23581	48093	35391	17061	6273	20640	25672	23139	30207	10518	105525	31286
MEAN	761	1603	1142	550	224	666	856	746	1007	339	3404	1043
MAX	3260	9240	2170	2010	763	3010	2240	2580	4440	1470	27600	7750
MIN	39	51	307	46	49	51	79	50	47	35	69	70
AC-FT	46770	95390	70200	33840	12440	40940	50920	45900	59920	20860	209300	62060

08091000 BRAZOS RIVER NEAR GLEN ROSE, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995#, BY WATER YEAR (WY)

MEAN	1812	872	1044	582	967	1165	1265	2198	2594	608	787	690
MAX	17860	6209	14960	3099	11290	6684	14360	13920	13660	4873	6621	2957
(WY)	1982	1975	1992	1992	1992	1992	1990	1990	1982	1982	1978	1972
MIN	22.3	13.7	25.1	34.4	15.9	34.3	9.99	30.5	145	12.1	17.2	20.7
(WY)	1989	1989	1989	1989	1984	1974	1974	1988	1972	1978	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995#	
ANNUAL TOTAL	275074.3		377386			
ANNUAL MEAN	754		1034		1216	
HIGHEST ANNUAL MEAN					4605	1992
LOWEST ANNUAL MEAN					115	1988
HIGHEST DAILY MEAN	17500	May 14	27600	Aug 3	82100	Dec 21 1991
LOWEST DAILY MEAN	8.0	Jul 30	35	Jul 24	.17	Jul 14 1984
ANNUAL SEVEN-DAY MINIMUM	11	Jul 25	107	Oct 12	5.8	Apr 19 1974
INSTANTANEOUS PEAK FLOW			32200	Aug 3	89600	Dec 21 1991
INSTANTANEOUS PEAK STAGE			21.21	Aug 3	35.76	Apr 28 1990
ANNUAL RUNOFF (AC-FT)	545600		748500		880700	
10 PERCENT EXCEEDS	1840		2110		2280	
50 PERCENT EXCEEDS	210		498		251	
90 PERCENT EXCEEDS	33		94		28	

e Estimated
Period of regulated streamflow.

BRAZOS RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1923 to September 1925, May 1947 to current year (water year 1924 is not complete). Prior to October 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 Sept. 30, 1925, nonrecording gage at bridge 1.8 mi downstream at datum 13.62 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow is affected at times by discharge from the flood-detention pools of fourteen floodwater-retarding structures with a combined capacity of 20,100 acre-ft. These structures control runoff from 90.8 mi² above this station. Rain gage at station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1877, 27.2 ft Apr. 17, 1908, present site and datum (discharge, 59,000 ft³/s). Flood of May 21, 1922, reached a stage of 26.0 ft, present site and datum (discharge, 53,000 ft³/s). Flood in November 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	42	88	148	82	54	114	68	209	72	6510	46
2	13	37	84	130	81	54	106	65	160	68	3560	42
3	12	37	84	122	77	54	99	68	107	74	4050	40
4	21	36	84	115	73	54	120	73	86	76	2120	37
5	52	260	80	109	71	54	260	134	79	78	1380	37
6	26	225	76	108	69	54	373	1270	123	92	984	35
7	20	120	75	102	67	71	257	429	119	77	610	34
8	18	83	73	96	65	71	194	2800	80	69	520	32
9	17	80	127	91	63	66	160	1210	67	63	408	32
10	16	119	342	90	63	60	184	503	197	58	289	31
11	15	97	251	87	63	55	171	348	9130	53	226	32
12	15	75	175	85	63	53	145	282	2110	50	180	32
13	15	65	144	83	63	244	124	236	1210	48	152	37
14	15	67	135	79	63	636	115	194	546	46	134	49
15	15	393	131	74	63	397	107	169	379	44	119	48
16	17	250	128	73	65	315	101	152	265	45	108	40
17	18	159	120	96	64	241	99	139	205	43	98	39
18	194	123	110	163	61	192	173	124	174	41	90	234
19	548	110	103	218	60	162	158	111	155	41	83	430
20	317	961	98	169	57	142	221	106	141	41	78	149
21	1560	761	92	136	55	127	139	98	127	38	73	110
22	359	310	87	120	54	119	116	92	115	37	69	146
23	174	205	82	107	54	112	104	87	106	35	64	85
24	137	175	81	99	52	105	95	86	97	33	61	70
25	293	169	77	94	51	108	89	92	88	31	59	66
26	221	152	74	102	52	143	84	92	81	31	56	65
27	121	138	73	120	54	210	80	93	80	29	53	62
28	79	121	128	110	55	149	76	87	89	26	51	58
29	61	106	246	97	---	138	73	79	82	26	49	53
30	51	95	196	89	---	134	70	78	76	25	51	45
31	45	---	156	85	---	122	---	87	---	6100	52	---
TOTAL	4478	5571	3800	3397	1760	4496	4207	9452	16483	7590	22337	2216
MEAN	144	186	123	110	62.9	145	140	305	549	245	721	73.9
MAX	1560	961	342	218	82	636	373	2800	9130	6100	6510	430
MIN	12	36	73	73	51	53	70	65	67	25	49	31
AC-FT	8880	11050	7540	6740	3490	8920	8340	18750	32690	15050	44310	4400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995, BY WATER YEAR (WY)

MEAN	65.8	31.4	57.0	45.2	67.8	80.6	122	251	101	33.3	28.4	30.4
MAX	724	211	1382	380	933	487	827	1191	890	245	721	335
(WY)	1960	1992	1992	1992	1992	1968	1990	1949	1989	1995	1995	1955
MIN	.000	1.05	3.47	4.70	5.49	5.84	6.46	3.34	1.48	.000	.000	.000
(WY)	1979	1984	1989	1984	1984	1956	1986	1988	1974	1978	1978	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1924 - 1995	
ANNUAL TOTAL	30569.23		85787			
ANNUAL MEAN	83.8		235		76.7	
HIGHEST ANNUAL MEAN					361	1992
LOWEST ANNUAL MEAN					6.24	1984
HIGHEST DAILY MEAN	2210	May 12	9130	Jun 11	26600	May 17 1949
LOWEST DAILY MEAN	.88	Aug 30	12	Oct 3	.00	Jul 13 1925
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 24	15	Oct 9	.00	Jul 20 1925
INSTANTANEOUS PEAK FLOW			20600	Jul 31	50000	Oct 4 1959
INSTANTANEOUS PEAK STAGE			17.78	Jul 31	25.40	Oct 4 1959
ANNUAL RUNOFF (AC-FT)	60630		170200		55570	
10 PERCENT EXCEEDS	158		291		104	
50 PERCENT EXCEEDS	26		89		14	
90 PERCENT EXCEEDS	5.6		37		1.5	

08091730 SQUAW CREEK RESERVOIR NEAR GLEN ROSE, TX

LOCATION.--Lat 32°18'00", long 97°47'12", Somervell County, Hydrologic Unit 12060202, on upstream side of intake structure near power house on Squaw Creek, 1.8 mi upstream from dam, 3.9 mi north of Glen Rose, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--64.0 mi².

PERIOD OF RECORD.--February 1977 to current year.
Water-quality records.--Chemical analyses: October 1982 to September 1984.

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

REMARKS.--The reservoir is formed by a rolled earthfill dam 4,360 ft long. Deliberate impoundment began in February 1977, and the dam was completed in June 1977. The flood-control outlet works consist of an ungated 100-foot-long concrete ogee spillway located at right end of dam. The low-flow outlet works consist of a concrete outlet tower with three 4- X 6-foot slide gates and one 6- X 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 into this reservoir. Figures given herein represent total contents. Satellite telemeter at station. Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	796.0	228,100
Crest of spillway	783.0	178,100
Crest of spillway (normal operating level)	775.0	151,100
Invert of slide gate (No. 1)	764.0	117,300
Invert of slide gate (No. 2)	715.0	24,670
Invert of slide gate (No. 3)	666.5	380
Lowest gated outlet (invert)	653.0	0

COOPERATION.--The capacity table, provided by Texas Utilities Services, Inc., was prepared by Freese and Nichols, Inc., Consulting Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 164,700 acre-ft Dec. 19, 1991 (elevation, 779.14 ft); minimum since normal operating level was reached in 1979, 141,200 acre-ft Sep. 16, 1992 (elevation, 771.98 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 157,400 acre-ft Aug. 3 at 0230 hours (elevation, 776.96 ft); minimum, 142,300 acre-ft Mar. 12 (elevation, 772.30 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

771.0	138,200	774.0	147,700	777.0	157,600
772.0	141,300	775.0	151,000	778.0	160,900
773.0	144,500	776.0	154,200	780.0	167,700

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145800	144600	148300	147300	145500	143100	144100	143800	146700	151900	156200	149300
2	145700	144700	148400	147200	145500	143000	144100	143700	146600	151800	157300	149200
3	145700	144700	148500	147200	145300	142900	144100	143800	146400	151800	156700	149000
4	145600	144900	148500	147100	145200	142800	144100	143700	146300	151700	155600	148800
5	145500	145000	148600	147000	145100	142800	144600	144900	146200	151900	154800	148600
6	145300	145000	148500	146900	145100	142900	144700	145500	146300	151900	154100	148400
7	145200	144700	148400	146800	144900	142500	144700	145700	146200	151900	153600	148300
8	145000	144800	148500	146800	144800	142600	144700	147600	146100	151900	153200	148300
9	144800	144800	148600	146800	144700	142500	144700	147600	146100	151900	152800	148300
10	144600	144800	148500	146700	144600	142500	144600	147600	148400	151900	152500	148200
11	144500	144800	148400	146700	144500	142300	144500	147600	152300	151900	152300	148300
12	144400	144800	148300	146600	144400	142600	144400	147600	152300	151900	152100	148300
13	144400	144800	148200	146400	144300	143300	144400	147600	152200	151800	151900	148600
14	144300	145200	148200	146300	144200	143800	144400	147600	152100	151800	151700	148700
15	144200	145600	148100	146300	144200	144100	144300	147600	152100	151700	151500	148700
16	144200	145700	147900	146200	144100	144200	144300	147500	152000	151700	151300	148800
17	144400	145800	147900	146300	144000	144200	144400	147400	152000	151800	151100	149100
18	144600	146000	147900	146300	144000	144200	144500	147200	152000	151700	151000	149600
19	144600	146200	147800	146300	143900	144200	144800	147200	152000	151800	150900	149700
20	145200	147200	147700	146300	143800	144200	144800	147100	152000	151700	150800	149700
21	145600	147400	147600	146300	143800	144200	144800	147000	152100	151600	150700	149900
22	145500	147600	147500	146100	143700	144200	144600	146900	152000	151600	150600	149700
23	145500	147700	147500	146100	143700	144100	144400	146700	152000	151600	150400	149700
24	145400	147800	147400	146000	143600	144100	144400	146700	152000	151500	150300	149700
25	145400	147900	147300	145900	143500	144200	144300	146600	151900	151500	150100	149700
26	145300	148100	147300	146100	143500	144300	144200	146500	151900	151400	150000	149800
27	145200	148100	147300	146000	143400	144300	144100	146500	152100	151400	149900	149800
28	145100	148200	147500	145900	143200	144300	144000	146400	152000	151400	149800	149900
29	145000	148200	147500	145700	---	144300	144000	146400	152000	151300	149700	149900
30	145000	148300	147400	145600	---	144300	144000	146300	151900	151200	149600	150000
31	144900	---	147400	145500	---	144200	---	146600	---	156900	149400	---
MAX	145800	148300	148600	147300	145500	144300	144800	147600	152300	156900	157300	150000
MIN	144200	144600	147300	145500	143200	142300	144000	143700	146100	151200	149400	148200
(+)	773.12	774.17	773.91	773.33	772.61	772.90	772.84	773.67	775.30	776.81	774.53	774.70
(@)	-1000	+3400	-900	-1900	-2300	+1000	-200	+2600	+5300	+5000	-7500	+600

CAL YR 1995 MAX 148600 MIN 144200 (@) -900
WTR YR 1995 MAX 157300 MIN 142300 (@) +4100

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

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 mi².

PERIOD OF RECORD.--October 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.

REMARKS.--No estimated daily discharges. Records good. No known diversions between Squaw Creek Reservoir and this station. Flow regulated since Feb. 15, 1977 by Squaw Creek Reservoir. During the year, low flows were sustained by releases from a pipeline used to divert water from Lake Granbury (station 08090900) to Squaw Creek Reservoir (station 08091730). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--4 years (1974-77) prior to regulation by Squaw Creek Reservoir 8.41 ft³/s (6,090 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1974-77).--Maximum discharge 9,030 ft³/s Apr. 8, 1975 (gage height, 11.90 ft), from rating curve extended above 1,000 ft³/s on basis of area-velocity study); minimum, 0.02 ft³/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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.0	3.0	2.6	3.0	2.8	3.0	3.9	7.7	42	737	4.3
2	1.9	3.4	3.0	2.6	3.0	2.8	2.7	4.0	4.7	35	621	3.7
3	2.0	3.8	3.2	2.6	3.0	2.8	2.6	5.0	4.6	30	927	3.5
4	2.3	9.0	3.2	2.6	3.0	2.8	3.2	4.8	4.4	21	602	3.2
5	2.2	4.8	3.2	2.8	3.0	2.8	6.9	15	4.4	32	404	3.3
6	2.2	2.5	3.1	2.8	3.0	2.8	4.0	15	6.5	40	267	5.2
7	2.4	2.4	2.9	3.0	3.0	5.6	3.5	7.9	5.4	41	196	5.2
8	2.5	2.5	2.6	3.0	3.0	3.0	3.5	57	5.4	41	141	5.4
9	2.4	3.3	2.6	3.2	3.0	2.8	3.5	7.8	5.4	41	105	5.3
10	2.3	2.8	2.6	3.2	3.0	2.8	3.8	6.0	8.5	38	85	5.0
11	2.2	2.8	2.7	3.2	3.0	2.8	3.8	5.8	69	36	71	5.0
12	2.2	2.8	2.8	3.2	3.0	2.8	3.5	5.7	68	36	57	5.0
13	2.2	2.8	2.8	3.2	3.0	21	3.3	5.2	65	33	44	6.0
14	2.1	4.4	2.8	3.2	3.0	6.5	3.2	4.7	59	31	32	5.3
15	2.4	3.7	2.8	3.2	3.0	6.1	3.2	4.7	55	27	20	5.3
16	2.3	3.0	2.7	3.2	3.0	4.0	3.2	4.7	52	25	13	5.1
17	2.2	3.0	2.6	4.3	3.0	3.8	3.3	4.7	49	25	10	5.6
18	3.4	3.0	3.1	5.0	3.0	3.6	3.8	4.7	47	26	8.7	7.4
19	2.2	3.6	2.8	3.9	3.0	3.3	7.3	4.7	46	26	8.2	4.9
20	22	9.2	2.8	3.6	3.0	3.0	9.6	4.4	46	25	8.1	4.4
21	4.2	3.1	2.8	3.5	3.0	3.0	3.5	4.3	46	19	8.0	5.7
22	2.6	2.8	2.8	3.5	3.0	2.9	3.7	4.0	46	14	7.4	4.8
23	2.6	2.7	2.9	3.5	2.9	2.8	3.8	4.0	46	13	6.3	4.5
24	2.9	3.0	3.0	3.5	2.8	2.8	4.0	4.0	46	13	6.2	4.3
25	3.2	3.0	3.0	3.5	2.8	2.9	4.6	4.0	46	12	5.8	4.3
26	3.0	3.0	3.0	3.5	2.8	3.2	4.0	4.0	40	8.3	5.5	4.4
27	2.8	3.0	2.8	3.4	2.8	3.0	4.3	3.9	42	8.3	5.0	4.4
28	2.8	3.0	3.5	3.2	2.8	3.0	4.4	3.8	49	7.4	4.8	4.7
29	2.8	3.0	2.7	3.2	---	3.0	4.3	3.8	46	7.4	4.7	4.7
30	2.8	3.0	2.6	3.0	---	3.0	3.8	3.8	46	7.1	4.5	4.4
31	2.9	---	2.6	3.0	---	3.0	---	6.0	---	354	5.1	---
TOTAL	97.9	105.4	89.0	101.2	82.9	120.5	121.3	221.3	1066.0	1114.5	4420.3	144.3
MEAN	3.16	3.51	2.87	3.26	2.96	3.89	4.04	7.14	35.5	36.0	143	4.81
MAX	22	9.2	3.5	5.0	3.0	21	9.6	57	69	354	927	7.4
MIN	1.9	2.4	2.6	2.6	2.8	2.8	2.6	3.8	4.4	7.1	4.5	3.2
AC-FT	194	209	177	201	164	239	241	439	2110	2210	8770	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995#, BY WATER YEAR (WY)

MEAN	10.7	8.72	27.5	8.36	15.0	25.3	22.2	56.5	48.3	7.74	12.5	5.27
MAX	110	81.5	416	66.0	162	132	169	336	362	36.0	143	14.8
(WY)	1992	1992	1992	1992	1992	1992	1990	1989	1989	1995	1995	1986
MIN	1.54	1.95	2.36	2.30	2.46	1.61	1.78	2.39	1.28	1.59	1.47	1.91
(WY)	1993	1993	1978	1994	1978	1978	1978	1978	1978	1978	1992	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1978 - 1995#	
ANNUAL TOTAL	1014.39		7684.6			
ANNUAL MEAN	2.78		21.1		20.7	
HIGHEST ANNUAL MEAN					89.9	1992
LOWEST ANNUAL MEAN					2.18	1978
HIGHEST DAILY MEAN	26	May 12	927	Aug 3	4380	Dec 20 1991
LOWEST DAILY MEAN	.74	Aug 19	1.9	Oct 1	.64	Oct 26 1992
ANNUAL SEVEN-DAY MINIMUM	1.7	Aug 18	2.1	Oct 1	.70	Oct 22 1992
INSTANTANEOUS PEAK FLOW			1670	Jul 31	8940	Jun 13 1989
INSTANTANEOUS PEAK STAGE			6.95	Jul 31	11.85	Jun 13 1989
ANNUAL RUNOFF (AC-FT)	2010		15240		15010	
10 PERCENT EXCEEDS	3.2		41		22	
50 PERCENT EXCEEDS	2.6		3.7		4.1	
90 PERCENT EXCEEDS	1.8		2.7		2.3	

Period of regulated streamflow.

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.

PERIOD OF RECORD.--July 1924 to September 1925. November 1947 to September 1985. October 1985 to current year (peaks above base discharge).

REVISED RECORDS.--WSP 1312: 1925(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 551.48 ft above sea level. July 29, 1924 to Sept. 30, 192 and Nov. 14, 1947 to May 28, 1949 nonrecording gage at railway bridge (now abandoned) 0.5 mi upstream at datum 5.00 ft higher. May 29 to July 7, 1949, nonrecording gage at present site and datum then in use (5.00 ft higher than present datum).

REMARKS.--Records good. Daily values and peak discharges less than 1,200 ft^3/s are not published. Since August 1984, flow from 100 mi^2 above this station has been affected by storage in Lake Pat Cleburne (station 08091900, discontinued) located 13 mi upstream. The city of Cleburne diverts water from Lake Pat Cleburne and returns sewage effluent to a tributary upstream from the station. Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE.--18 years (water years 1925, 1949-64) prior to regulation by Lake Pat Cleburne, 66.1 ft^3/s (47,890 acre-ft/yr); 21 years (water years 1965-85) regulated, 81.2 ft^3/s (58,830 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 62,200 ft^3/s May 7, 1969 (gage height, 31.23 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 1,200 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 21	0030	7,940	11.41	Mar. 13	0900	13,500	15.25
Oct. 21	2215	2,410	6.39	Apr. 20	0115	2,540	6.40
Nov. 5	0500	6,150	9.95	May 6	0230	4,680	8.64
Nov. 15	0415	2,720	6.72	May 8	1015	10,700	13.40
Dec. 10	0200	2,020	5.91	June 11	0445	12,600	14.68

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, and at mile 442.4.

DRAINAGE AREA.--27,189 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--December 1951 to current year. Prior to October 1970, published as Whitney Reservoir. Prior to October 1980, published as Whitney Lake.
Water-quality records.--Chemical analyses: March 1960 to September 1987. Chemical and biochemical analyses: September 1970 to August 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).

REMARKS.--The lake is formed by a concrete-gravity and rolled earthfill dam 17,695 ft long, including spillway. The dam was completed in April 1951, and deliberate impoundment began Dec. 10, 1951. Concrete spillway is 680 ft long and includes 17 tainter gates 38.0 by 40.0 ft each. Outlet works are comprised of 16 gate-operated conduits that are 5.0- by 9.0 ft each. The space between elevations 522.0 and 571.0 ft is reserved for flood-control storage. At maximum design elevation of 573.0 ft the spillway is designed to discharge 684,000 ft³/s. The capacity table is based on a survey made in April and May 1959. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	584.0	-
Design flood	573.0	2,100,000
Top of gates	571.0	1,999,500
Crest of spillway (sill of gates)	533.0	627,100
Top of conservation pool (top of designated power storage)	522.0	411,100
Lowest controlled outlet (invert)	448.83	4,270

COOPERATION.--Records of elevations and contents furnished by the U.S. Army Corps of Engineers and reviewed by the 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 April 1954, 250,200 acre-ft Nov. 1, 1956 (elevation 509.52 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 745,200 acre-ft May 10, (elevation, 537.71 ft); minimum, 523,000 acre-ft Oct. 6.

Capacity table (elevation, in feet, and total contents, in acre-feet)

524.0	444,100	544.0	925,700	558.0	1,420,000
525.0	461,200	548.0	1,053,000	560.0	1,501,000
530.0	559,400	551.0	1,156,000	561.0	1,542,000
535.0	675,300	554.0	1,266,000	571.0	2,000,000
540.0	807,600	556.0	1,342,000		

08092500 LAKE WHITNEY NEAR WHITNEY, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	532100	568400	625200	636500	623100	623500	629000	612400	633200	626800	657000	607300
2	531300	569000	624900	636800	622100	623100	626400	611000	633200	624900	697800	605900
3	529000	570600	626600	636100	622400	622600	625400	612600	631100	624000	734200	605900
4	528000	575400	627500	634200	622100	623100	636500	613000	630100	623100	726600	604100
5	526200	584800	629000	633000	622600	624500	641800	629000	630400	628700	701900	602200
6	523300	587300	629000	632700	622400	623100	640100	656500	627100	629200	683200	601300
7	524900	588200	629200	629700	621000	624700	640100	672000	625900	628000	673000	601500
8	525700	588400	629700	627800	618600	623300	635300	730000	624700	627800	666800	601800
9	525300	591500	632300	625400	618400	623800	632000	744700	623800	626800	655100	601300
10	525500	592900	635600	627300	619800	623300	635300	731300	634400	626400	651200	601500
11	525900	594000	636300	627100	618900	623300	633000	708800	688000	625700	648800	600900
12	525700	595200	637700	628000	616500	625700	632500	685200	691200	624700	645900	600900
13	525700	595600	639400	628000	616300	653100	629900	675500	687200	623500	641600	601500
14	525700	599900	643200	627500	617000	666800	625700	660900	670800	622600	637500	603400
15	526200	608400	644400	626400	618400	666600	624700	651700	659900	621400	635600	604700
16	526200	616300	644700	624200	620000	655800	623800	644900	659500	621900	633700	605000
17	528200	620000	643000	625900	620000	648000	623800	641300	656300	622600	630800	608700
18	532400	620000	641100	628500	619800	643700	626100	638900	651700	622100	627300	608900
19	537800	625200	636800	631600	620700	637500	632000	636100	645400	621400	623500	615600
20	543700	630400	631800	633700	620300	636100	638200	632700	638900	620700	622600	627300
21	555100	644200	627100	629900	619300	633400	636100	629200	635600	619300	620500	639200
22	560900	660900	623500	627500	619800	633000	635100	625700	632000	616300	619800	638700
23	565500	659000	623800	622100	620000	631800	628500	624500	632000	616300	618400	635600
24	573400	647600	623500	619600	620500	629000	623300	625900	629200	614900	616800	632000
25	575200	640100	620500	620300	621200	627100	621200	625200	629000	611000	616300	628200
26	573700	633400	620500	621700	623300	628500	620000	625900	628500	608700	615600	625200
27	573000	631800	622400	624000	624500	628700	614400	627100	629900	607500	615400	622400
28	571900	630100	625700	623800	625200	631100	612600	625900	628200	607500	614700	620000
29	570300	627800	628500	625900	---	633000	612100	629000	627300	607300	612400	618400
30	570600	625700	633200	623800	---	632300	610000	632000	626800	607700	609800	616800
31	569900	---	637700	623800	---	630800	---	631800	---	624500	608200	---
MAX	575200	660900	644700	636800	625200	666800	641800	744700	691200	629200	734200	639200
MIN	523300	568400	620500	619600	616300	622600	610000	611000	623800	607300	608200	600900
(+)	530.48	532.93	533.44	532.85	532.91	533.15	532.26	533.19	532.98	532.88	532.18	532.55
(@)	+36900	+55800	+12000	-13900	+1400	+5600	-20800	+21800	-5000	-2300	-16300	+8600

CAL YR 1994 MAX 660900 MIN 447300 (@) +146800
WTR YR 1995 MAX 744700 MIN 523300 (@) +83800

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

08092600 BRAZOS RIVER AT WHITNEY DAM NEAR WHITNEY, TX

LOCATION.--Lat 31°52'00", long 97°22'00", Hill County, Hydrologic Unit 12060202, immediately below Whitney Dam, 3.4 mi upstream from gaging station near Whitney, 4.0 mi upstream from Iron Creek, and 7.4 mi southwest of Whitney.

DRAINAGE AREA.--27,189 mi², of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--Chemical analyses: August 1946 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1947 to current year.
WATER TEMPERATURE: October 1947 to current year.

INSTRUMENTATION.--From July 1953 to September 1966, water temperature was continuously recorded at this station.

REMARKS.--Records of discharge are given for gaging 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 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, 3,620 microsiemens Aug. 24, 1978; minimum daily, 203 microsiemens May 23, 1952.
WATER TEMPERATURES: Maximum daily, 33.5°C July 3, 1973; minimum daily, 0.0°C Jan. 28, 29, 1948.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,500 microsiemens Oct. 7; minimum daily, 891 microsiemens Aug. 8.
WATER TEMPERATURE: Maximum daily, 27.5°C Aug. 4 and 18; minimum daily, 10.0°C Mar. 8-10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
18...	1249	25	1060	7.2	21.5	220	120	57	19	130
NOV										
29...	1137	4000	1460	8.1	17.5	290	170	75	26	170
JUN										
07...	1010	2500	1000	7.5	25.5	250	110	71	18	110
JUL										
05...	1326	405	944	7.9	23.0	230	86	65	16	97
AUG										
09...	0907	11300	845	7.7	28.0	190	75	54	14	92
SEP										
08...	1330	569	940	7.0	28.0	210	81	57	16	100

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT										
18...	4	3.9	96	130	200	0.2	5.6	603	--	--
NOV										
29...	4	5.7	130	180	290	0.30	7.2	831	--	--
JUN										
07...	3	4.4	150	110	170	0.3	6.4	578	--	--
JUL										
05...	3	4.2	140	94	140	0.3	6.6	508	--	--
AUG										
09...	3	4.5	120	88	150	0.20	7.5	481	6	33
SEP										
08...	3	5.0	130	100	160	0.2	7.6	522	--	--

08092600 BRAZOS RIVER AT WHITNEY DAM NEAR WHITNEY, TX--Continued

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.	1994	14389.7	1480	819	31800	280	10800	170	6780	300
NOV.	1994	45552	1470	817	101000	280	34200	170	21400	300
DEC.	1994	49081	1460	811	107000	280	36600	170	22800	300
JAN.	1995	40279	1430	789	85800	270	29100	170	18200	290
FEB.	1995	14942	1390	768	31000	260	10500	160	6520	290
MAR.	1995	60003.9	1390	770	125000	260	42200	160	26300	290
APR.	1995	70320	1300	715	136000	240	45700	150	28300	270
MAY	1995	140255	1120	608	230000	200	76400	120	46700	240
JUNE	1995	98025	1020	552	146000	180	48000	110	29200	230
JULY	1995	31660	975	526	44900	170	14700	100	8930	220
AUG.	1995	162821	926	498	219000	160	71500	98	43200	210
SEPT	1995	28424	1020	551	42300	180	13900	110	8460	230
TOTAL		755752.6	**	**	1300000	**	434000	**	267000	**
WTD.AVG.		2071	1170	637	**	210	**	130	**	250

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1480	1410	1470	e1460	1400	1430	e1360	1200	1050	e996	967	959
2	e1480	1480	1470	e1460	1400	1430	e1360	1180	1060	e997	953	e970
3	1470	1480	e1470	1440	1400	1430	1360	1170	e1060	997	946	e980
4	1480	1480	e1460	1440	e1400	e1430	1330	1190	e1060	e992	939	e970
5	1480	e1480	1460	1440	e1400	e1430	1360	1190	1050	984	e935	960
6	1490	e1470	1470	1430	1390	1430	1390	e1190	1050	971	e932	966
7	1500	1470	1470	e1430	1390	1430	1460	e1180	1050	974	928	975
8	e1470	e1460	1470	e1430	1390	1420	e1410	1180	1050	e975	891	983
9	e1470	1460	1470	1430	1390	1420	e1380	1160	1050	e975	894	e1010
10	e1460	1480	e1460	1430	1390	1420	1340	1150	e1040	977	910	e1000
11	1460	e1480	e1460	1430	e1390	e1400	1270	1110	e1030	975	914	995
12	1460	e1480	1460	1430	e1390	e1380	1280	1120	1020	974	e915	976
13	1460	e1480	1460	1430	1390	1350	1280	e1110	1010	972	e917	993
14	1460	1480	1470	e1430	1380	1410	1270	e1100	1010	974	918	992
15	e1460	1470	1460	e1430	1380	1400	e1270	1090	1010	e974	919	e995
16	e1480	1480	1460	e1420	1380	1390	e1270	1090	1020	e974	922	e997
17	1470	1470	e1460	1420	1380	1380	1270	1110	e1020	975	922	e1000
18	1460	1470	e1470	1400	e1380	e1410	1270	1070	e1020	975	924	1010
19	1460	e1470	1460	1410	e1380	e1420	1250	1060	1020	972	e922	1000
20	1470	1480	1460	1420	e1380	1400	1240	e1060	1020	972	e921	1010
21	1470	1480	1460	e1420	1380	1390	1250	e1160	998	970	920	1010
22	e1460	1480	1460	e1420	1380	1390	e1240	1070	1000	e970	924	1020
23	e1460	1480	1460	1410	1380	1390	e1230	1090	1000	e970	922	e1020
24	1480	e1470	e1460	1410	1380	1380	1210	1080	e998	971	922	e1020
25	1470	1460	e1460	1410	e1390	e1380	1210	1060	e993	971	923	1020
26	1470	e1470	e1460	1410	e1380	e1360	1210	1070	989	969	e925	1020
27	1470	e1480	1460	1410	1380	1360	1200	e1070	991	970	e926	1020
28	1470	1480	1450	e1410	1370	1380	1200	e1060	991	964	928	1080
29	e1470	1480	1450	e1410	---	1340	e1200	e1050	993	e960	929	1160
30	e1470	e1480	1450	1410	---	1340	e1200	1050	993	e956	930	e1160
31	1470	---	e1450	1410	---	1340	---	1060	---	953	935	---
MEAN	1470	1470	1460	1420	1390	1400	1290	1110	1020	974	925	1010
MAX	1500	1480	1470	1460	1400	1430	1460	1200	1060	997	967	1160
MIN	1460	1410	1450	1400	1370	1340	1200	1050	989	953	891	959

WTR YR 1995 MEAN 1240 MAX 1500 MIN 891

e Estimated

08092600 BRAZOS RIVER AT WHITNEY DAM NEAR WHITNEY, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	19.5	15.0	---	11.0	11.5	---	18.0	21.5	---	25.0	---
2	---	19.5	16.0	---	11.0	11.0	---	18.5	22.0	---	25.5	---
3	22.5	19.0	---	11.5	11.5	11.0	14.0	18.0	---	25.0	26.0	---
4	22.5	21.5	---	11.0	---	---	14.5	18.5	---	---	27.5	---
5	22.5	---	15.0	11.0	---	---	14.0	18.5	22.0	24.0	---	26.0
6	22.5	---	16.0	11.0	11.5	11.0	14.5	---	22.0	24.5	---	26.5
7	22.5	19.0	15.5	---	11.0	11.0	14.5	---	22.5	24.5	26.5	27.0
8	---	---	15.0	---	10.5	10.0	---	19.0	22.5	---	27.0	26.5
9	---	19.5	14.5	11.0	11.0	10.0	---	19.5	23.0	---	26.5	---
10	---	18.5	---	11.5	11.5	10.0	15.0	20.5	---	24.5	27.0	---
11	21.5	---	---	11.5	---	---	15.5	20.5	---	24.5	27.0	27.0
12	22.5	---	13.5	12.0	---	---	15.5	20.5	24.0	24.5	---	26.5
13	21.5	---	13.5	11.5	10.5	12.0	15.5	---	23.5	24.5	---	26.5
14	21.5	19.5	14.0	---	10.5	11.5	15.5	---	24.5	25.0	27.0	26.5
15	---	18.5	14.0	---	11.5	12.0	---	21.5	24.5	---	27.0	---
16	---	18.0	14.0	---	11.0	12.5	---	21.0	24.0	---	26.5	---
17	21.5	18.0	---	11.5	10.5	13.0	17.5	21.0	---	24.5	26.5	---
18	21.5	18.0	---	11.5	---	---	16.5	21.0	---	24.5	27.5	26.5
19	21.5	---	13.5	11.0	---	---	17.0	21.0	24.5	24.5	---	26.5
20	21.5	---	14.0	11.0	---	12.5	17.5	---	24.5	24.5	---	25.5
21	21.5	17.5	13.0	---	10.5	13.0	17.5	---	24.0	24.5	27.0	26.0
22	---	17.5	13.0	---	11.0	13.5	---	21.5	25.0	---	26.5	23.0
23	---	17.5	13.0	10.5	11.5	13.5	---	21.0	25.0	---	27.0	---
24	20.5	---	---	10.5	12.0	13.5	17.5	21.0	---	24.5	27.0	---
25	20.5	15.5	---	11.0	---	---	17.0	21.5	---	25.0	26.5	23.5
26	19.5	---	---	11.0	---	---	17.0	21.5	24.0	25.0	---	23.5
27	19.5	---	12.5	11.5	12.5	14.5	17.0	---	24.0	25.0	---	23.5
28	19.5	15.5	13.0	---	12.5	12.5	18.0	---	25.0	26.5	26.5	23.5
29	---	16.0	13.0	---	---	14.5	---	---	24.0	---	26.5	23.0
30	---	---	13.0	10.5	---	14.0	---	22.0	24.0	---	26.5	---
31	20.0	---	---	10.5	---	14.0	---	21.5	---	24.5	26.5	---
MEAN	21.3	18.2	14.0	11.1	11.2	12.3	16.0	20.3	23.6	24.7	26.6	25.4
MAX	22.5	21.5	16.0	12.0	12.5	14.5	18.0	22.0	25.0	26.5	27.5	27.0
MIN	19.5	15.5	12.5	10.5	10.5	10.0	14.0	18.0	21.5	24.0	25.0	23.0

WTR YR 1995 MEAN 18.8 MAX 27.5 MIN 10.0

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 mile 434.0.

DRAINAGE AREA.--27,244 mi², of which 9,566 mi², probably is noncontributing.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 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.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Most flow occurs as releases from Lake Whitney (station 08092500) 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. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--13 years (water years 1939-51) prior to regulation by Lake Whitney, 1,802 ft³/s (1,306,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1939-51).--Maximum discharge, 71,800 ft³/s May 18, 1949 (gage height, 31.03 ft), at site and datum then in use (Oct. 1, 1948, to Feb. 12, 1975).

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644	826	989	880	909	817	1430	1430	2680	948	1920	997
2	657	396	852	1240	1080	1200	1610	1290	2450	874	6480	909
3	1310	236	588	1200	514	800	1540	755	2570	1230	15000	388
4	1150	43	725	2170	679	14	2630	1210	1860	1170	19300	952
5	931	50	558	2020	659	5.3	1530	1510	2280	405	19400	1210
6	1200	217	830	1600	501	649	e4470	2690	2430	823	15300	736
7	518	507	428	1830	740	1360	e4430	2610	2500	1150	10600	600
8	26	36	785	2000	1630	1020	e4400	6530	1560	1060	10500	569
9	9.9	261	1520	2000	560	446	e4470	11700	1300	1100	10500	174
10	8.7	313	1200	420	199	456	e3990	13100	1510	1170	9250	14
11	9.1	256	1330	554	687	17	e2280	18200	1190	1150	5420	385
12	10	18	1210	1580	1260	7.6	e2270	15500	5780	1330	4160	556
13	10	16	892	1270	1040	1210	e1920	8960	11700	1230	4130	553
14	11	17	976	1320	20	1790	1400	8990	11700	1310	4110	541
15	13	112	2420	910	257	5990	1370	7220	9350	1050	2140	702
16	57	160	4670	1270	631	8680	1380	4350	4300	388	2230	728
17	332	226	3110	609	726	6870	1410	4230	4240	670	2220	503
18	33	499	2620	596	501	4210	1050	3010	4260	938	2260	645
19	24	667	2660	e850	20	4210	1100	2990	4280	902	2250	2470
20	16	706	4270	e600	479	3140	1130	2850	4320	1090	1330	787
21	21	1260	3620	e2500	491	2100	2170	2670	2490	997	1790	845
22	e21	2160	2870	e2500	21	2170	3340	3020	2390	1830	1940	820
23	e19	6000	1290	e2650	472	2170	3350	1950	2750	723	1670	1620
24	16	9290	1060	e1600	21	2110	3290	1820	1540	925	1460	1930
25	497	7130	2640	e680	440	1600	1830	1500	1120	1590	1180	1960
26	888	4550	1820	e610	41	1500	2450	1520	1400	1720	1050	1340
27	1230	3520	480	e620	25	1490	3130	1560	405	1080	307	1170
28	658	1760	1140	e1600	339	636	1840	1650	1320	981	574	1670
29	1540	2230	1150	e350	---	596	1650	1630	1150	1120	1320	1400
30	1180	2090	315	e1250	---	1320	1460	1640	1200	448	1550	1250
31	1350	---	63	e1000	---	1420	---	2170	---	258	1480	---
TOTAL	14389.7	45552	49081	40279	14942	60003.9	70320	140255	98025	31660	162821	28424
MEAN	464	1518	1583	1299	534	1936	2344	4524	3267	1021	5252	947
MAX	1540	9290	4670	2650	1630	8680	4470	18200	11700	1830	19400	2470
MIN	8.7	16	63	350	20	5.3	1050	755	405	258	307	14
AC-FT	28540	90350	97350	79890	29640	119000	139500	278200	194400	62800	323000	56380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995#, BY WATER YEAR (WY)

MEAN	1503	1034	862	1239	1036	1342	1298	3610	3600	1406	989	1010
MAX	12300	7201	7148	18010	11190	13700	7285	29670	35640	8110	5252	8249
(WY)	1982	1975	1992	1992	1992	1992	1990	1957	1957	1982	1995	1966
MIN	24.5	20.5	29.0	9.92	15.6	26.7	12.5	13.0	286	28.6	61.5	32.7
(WY)	1989	1984	1984	1953	1984	1953	1953	1988	1983	1978	1988	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1952 - 1995#	
ANNUAL TOTAL	332444.7		755752.6			
ANNUAL MEAN	911		2071		1580	
HIGHEST ANNUAL MEAN					6566	1992
LOWEST ANNUAL MEAN					141	1953
HIGHEST DAILY MEAN	9290	Nov 24	19400	Aug 5	55700	May 28 1957
LOWEST DAILY MEAN	8.7	Oct 10	5.3	Mar 5	.40	May 9 1953
ANNUAL SEVEN-DAY MINIMUM	10	Oct 9	10	Oct 9	.80	May 4 1953
INSTANTANEOUS PEAK FLOW			20200	Aug 5	58200	May 28 1957
INSTANTANEOUS PEAK STAGE			20.00	Aug 5	27.34	May 28 1957
ANNUAL RUNOFF (AC-FT)	659400		1499000		1144000	
10 PERCENT EXCEEDS	1930		4310		3160	
50 PERCENT EXCEEDS	660		1240		610	
90 PERCENT EXCEEDS	37		168		41	

e Estimated
Period of regulated streamflow.

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 that runs along top of Aquilla Dam on Aquilla Creek, and 3.4 miles north-northeast of Aquilla.

DRAINAGE AREA.--255 mi².

PERIOD OF RECORD.--October 1983 to current year.
Water Quality records.--Chemical and biochemical analyses: February 1984 to July 1992.

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

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 January 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. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-ft)
Top of dam	582.5	-
Spillway crest (uncontrolled)	564.5	213,700
Top of flood-control pool	556.0	146,000
Top of conservation pool	537.5	52,400
Invert, lowest gated outlet	503.0	932

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 119,000 acre-ft, Dec. 23, 1991 (elevation, 551.89 ft); minimum observed, 4,600 acre-ft Oct. 6-10, 1983 (elevation, 511.31 ft Oct. 6, 7, 9, 10 and 511.30 ft Oct. 8).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 107,600 acre-ft May 9 (elevation, 549.97 ft); minimum, 51,220 acre-ft Sep. 13 (elevation, 537.15 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

511.0	4,381	539.0	57,450	548.0	96,730
520.0	13,660	542.0	68,760	550.0	107,800
530.0	31,753	544.0	77,250	551.0	113,700
535.0	44,620	546.0	86,560	552.0	119,700
536.0	47,610				

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48870	53350	55410	59120	53390	53050	54530	63850	60790	53650	59910	52000
2	48840	53320	55200	58230	53190	53020	54290	63010	60420	53490	60020	51940
3	48780	53220	55000	57380	53120	52990	54320	61960	59520	53320	59700	51840
4	48780	53550	54800	56370	53090	52950	64420	60790	58620	53190	58940	51740
5	48690	55650	54630	55820	53090	52990	66680	63350	57910	53420	57980	51610
6	48590	55750	54390	55510	53050	52990	66640	79860	56930	53320	56930	51550
7	48660	55610	54220	55200	53050	53150	65850	82220	55920	53290	55890	51680
8	48720	55440	54220	54930	52950	53020	65030	106100	54930	53190	54900	51510
9	48590	55890	56170	54590	52920	52950	64110	105500	54490	53050	54120	51480
10	48500	56030	58980	54290	52950	52920	66990	100500	55270	52950	53920	51380
11	48440	55890	59050	53990	52990	52920	70430	95730	66200	52890	53720	51290
12	48380	55680	59010	54800	52920	53020	69570	90420	67430	52760	53590	51220
13	48380	55510	58940	55610	52950	68230	68030	84920	65690	52620	53450	51420
14	48350	55920	59260	55510	52920	72600	66360	79640	63880	52530	53320	51740
15	48410	59840	60930	55200	53020	73030	64760	74310	61960	52530	53190	51740
16	48440	60240	71050	54830	53020	72440	63280	69160	60680	52490	53050	51680
17	48560	59990	71430	54860	52920	71220	62520	64000	59700	52430	52920	51900
18	48940	59410	71260	55580	52920	69650	62520	59880	58690	52860	52790	52000
19	49060	58760	70100	55750	52860	68030	63130	58550	57700	52820	52690	52130
20	49250	58510	68350	55610	52860	66560	69900	58550	57140	52720	52590	52100
21	50870	58020	66480	55410	52820	64920	69120	58480	56790	52620	52490	52690
22	54560	57420	64530	55240	52720	63310	67870	58120	56440	52530	52390	53050
23	54590	57000	63240	55000	52790	61820	68110	57840	56100	52460	52330	53050
24	54630	56820	62230	54690	52720	60350	66680	57630	55750	52360	52260	52990
25	54830	56650	61260	54460	52760	59190	65850	57630	55380	52260	52230	52950
26	54630	56340	60200	54260	52950	58340	65620	57350	55000	52230	52130	52860
27	54390	56340	59480	54120	53050	57240	65270	57280	54660	52130	52100	52790
28	54120	56130	60790	54050	53090	56300	64880	57070	54290	52070	52000	52790
29	53920	55890	61230	53920	---	55340	64570	57280	53990	52000	51970	52720
30	53690	55680	60570	53690	---	54930	64040	59700	53790	52130	52130	52690
31	53550	---	59990	53520	---	54730	---	60240	---	57280	52070	---
MAX	54830	60240	71430	59120	53390	73030	70430	106100	67430	57280	60020	53050
MIN	48350	53220	54220	53520	52720	52920	54290	57070	53790	52000	51970	51220
(+)	537.86	538.49	539.71	537.85	537.72	538.21	540.80	539.78	537.93	538.95	537.41	537.60
(@)	+4610	+2130	+4310	-6470	-430	+1640	+9310	-3800	-6450	+3490	-5210	+620

CAL YR 1994 MAX 71430 MIN 48350 (@) +7500
WTR YR 1995 MAX 106100 MIN 48350 (@) +3750

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

08093500 AQUILLA CREEK NEAR AQUILLA, TX

LOCATION.--Lat 31°50'40", long 97°12'04", Hill County, Hydrologic Unit 12060202, at downstream side of highway embankment near left end of bridge on Farm Road 1304, 1.0 mi southeast of Aquilla, 1.2 mi downstream from Cobb Creek, 4.7 mi below Aquilla Dam, and 18.2 mi upstream from mouth.

DRAINAGE AREA.--308 mi².

PERIOD OF RECORD.--December 1938 to current year. Records of daily discharges for December 1924 to August 1925, published in WSP 608, are unreliable, and should not be used.
Water-quality records.--Chemical analysis: March 1960 to June 1966, October 1967 to September 1993. Chemical and biochemical analysis: January 1968 to September 1992. Specific conductance: May 1965 to June 1966, November 1967 to September 1982. Water temperature: May 1965 to June 1966, November 1967 to September 1982.

REVISED RECORDS.--WSP 1712: 1944(M), 1957-58. WDR TX-76-2: Drainage area. See PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 451.48 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good except those for daily discharges below 5 ft³/s, which are poor. Since May 1983, flow from 252 mi² above this station has been regulated by Aquilla Lake, 4.7 mi upstream (on Aquilla Creek). Deliberate impoundment of water began Apr. 24, 1983. Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--43 years (water years 1940-82) 119 ft³/s (5.25 in/yr), 86,220 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1939-82).--Maximum discharge, 53,300 ft³/s June 16, 1981 (gage height, 31.35 ft), from rating curve extended above 25,900 ft³/s on basis of slope-area measurement of 74,200 ft³/s; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 31, 1887, reached a stage of 34 ft, from information by local resident. Flood of Sept. 27, 1936, was the highest since 1887 and reached a stage of 33 ft from floodmark; discharge 84,500 ft³/s (by slope-area measurements at site 9 mi downstream) and 74,200 ft³/s (adjusted to gage site).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	35	120	556	110	36	99	246	218	15	395	.72
2	.16	35	119	535	110	35	99	377	305	15	173	.75
3	.09	35	118	531	81	36	98	654	559	15	248	.84
4	.06	36	118	525	37	36	764	652	550	15	402	.81
5	.03	199	115	407	37	36	366	670	543	15	489	.90
6	.06	46	114	222	37	35	565	3130	546	15	486	.95
7	.02	73	117	217	37	38	529	122	541	15	482	2.1
8	.25	109	118	216	36	36	519	3520	534	15	479	1.8
9	.25	115	457	213	37	35	515	2060	325	15	436	.84
10	.06	119	452	212	37	35	1430	2910	47	15	33	.86
11	.11	110	159	211	37	35	1670	2850	974	15	56	.96
12	.08	108	142	331	37	35	658	2820	495	15	11	1.0
13	.08	106	136	432	36	2250	868	2800	1010	15	11	1.5
14	.05	109	191	235	37	328	858	2740	996	12	11	3.8
15	.08	676	249	221	37	321	849	2690	989	1.8	11	3.4
16	.29	174	1020	218	37	561	846	2650	799	.99	11	1.6
17	.42	258	446	218	35	697	844	2610	567	.78	11	50
18	6.1	402	410	494	36	850	926	2280	563	15	11	12
19	4.7	407	615	288	36	834	1030	934	564	12	11	3.8
20	2.6	422	981	232	36	824	1470	17	380	3.9	11	2.4
21	7.4	410	964	222	37	817	865	57	186	2.0	10	37
22	256	398	953	219	37	811	849	311	177	.73	.98	15
23	22	397	760	221	37	802	854	300	169	.47	.88	4.0
24	76	121	537	216	37	757	832	299	165	.59	.76	2.6
25	118	117	533	214	37	598	583	299	161	.53	.79	2.2
26	118	125	531	214	75	515	254	297	159	.22	.72	2.2
27	118	127	530	190	53	510	251	296	157	.50	.80	2.2
28	117	122	782	116	38	508	249	291	155	.82	.70	2.0
29	114	122	693	111	---	511	248	285	155	.66	.65	2.1
30	112	122	564	109	---	314	245	334	87	.80	.74	2.1
31	78	---	561	110	---	101	---	205	---	863	1.1	---
TOTAL	1152.14	5635	13605	8456	1274	13337	20233	39706	13076	1111.79	3796.12	162.43
MEAN	37.2	188	439	273	45.5	430	674	1281	436	35.9	122	5.41
MAX	256	676	1020	556	110	2250	1670	3520	1010	863	489	50
MIN	.02	35	114	109	35	35	98	17	47	.22	.65	.72
AC-FT	2290	11180	26990	16770	2530	26450	40130	78760	25940	2210	7530	322

08093500 AQUILLA CREEK NEAR AQUILLA, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995#, BY WATER YEAR (WY)

MEAN	49.2	66.2	146	157	150	238	118	258	233	30.1	17.6	5.86
MAX	237	392	640	1221	589	1054	674	1281	717	111	122	39.8
(WY)	1994	1992	1992	1992	1992	1992	1995	1995	1987	1987	1995	1991
MIN	.000	.15	.32	.59	.18	3.25	1.00	.021	.043	.000	.000	.000
(WY)	1983	1983	1990	1984	1984	1986	1984	1984	1984	1984	1984	1983

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1983 - 1995#	
ANNUAL TOTAL	48641.46		121544.48			
ANNUAL MEAN	133		333		122	
HIGHEST ANNUAL MEAN					396	1992
LOWEST ANNUAL MEAN					2.24	1984
HIGHEST DAILY MEAN	1370	May 11	3520	May 8	3990	Dec 21 1991
LOWEST DAILY MEAN	.02	Oct 7	.02	Oct 7	.00	Oct 1 1982
ANNUAL SEVEN-DAY MINIMUM	.10	Oct 1	.10	Oct 1	.00	Oct 1 1982
INSTANTANEOUS PEAK FLOW			6780	May 6	53300	Jun 16 1981
INSTANTANEOUS PEAK STAGE			27.17	May 6	31.35	Jun 16 1981
ANNUAL RUNOFF (AC-FT)	96480		241100		88680	
10 PERCENT EXCEEDS	513		845		395	
50 PERCENT EXCEEDS	35		118		6.4	
90 PERCENT EXCEEDS	.59		.82		.00	

Period of regulated streamflow.

08094800 NORTH BOSQUE RIVER AT HICO, TX

LOCATION.--Lat 31°58'41", long 98°02'04", Hamilton County, Hydrologic Unit 12060204, on left bank at downstream side of bridge on U.S. Highway 281 near south boundary of Hico, 2.6 mi downstream from Gilmore Creek, 5.0 mi upstream from Honey Creek, and 92.4 mi upstream from mouth.

DRAINAGE AREA.--359 mi².

PERIOD OF RECORD.--January 1962 to current year.
Water-quality records.--Chemical and biochemical analyses: September 1991 to March 1994.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 982.46 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow is 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 mi² in the North Bosque River and Green Creek drainage basins. The city of Stephenville discharges sewage effluent into the river above this station. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--11 years (1963-73) 50.5 ft³/s (36,590 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1963-73).--Maximum discharge, 16,800 ft³/s May 16, 1965 (gage height, 21.83 ft); no flow at times in 1962-65, 1967-68, and 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 27.6 ft May 23, 1952, from floodmarks (discharge, 87,800 ft³/s, by contracted-opening measurement).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	59	130	79	52	78	51	209	52	3280	46
2	12	22	58	110	77	49	74	39	126	48	2460	45
3	8.0	24	56	103	76	47	70	46	90	44	4060	43
4	11	154	53	96	e73	47	228	48	74	41	1680	42
5	15	105	50	90	e70	46	782	279	61	59	1160	41
6	16	69	50	90	e68	46	581	2070	59	49	852	39
7	14	56	50	84	e66	47	293	468	58	43	664	38
8	17	52	48	81	e64	47	191	2200	52	40	420	36
9	18	97	102	79	e64	46	137	1090	48	36	264	34
10	14	72	272	78	e63	44	122	517	77	34	204	39
11	12	57	163	77	e62	43	103	356	1770	38	192	37
12	10	50	113	77	e60	43	86	285	900	34	171	36
13	11	49	92	76	e63	246	79	195	468	33	155	58
14	11	167	86	70	e64	449	73	143	279	32	141	81
15	17	142	86	66	e60	218	69	121	206	31	132	56
16	17	99	82	65	e58	185	71	108	178	35	125	43
17	17	81	80	76	55	143	68	99	157	43	109	38
18	549	76	74	145	56	115	212	89	138	30	100	64
19	334	1070	70	182	55	100	107	81	125	25	100	72
20	93	727	68	121	53	90	125	76	115	24	101	71
21	67	281	63	103	50	83	96	71	106	24	90	59
22	67	168	60	91	49	80	82	67	95	22	88	57
23	48	131	58	86	48	76	75	65	84	21	79	62
24	45	109	57	81	47	71	69	75	75	21	74	50
25	163	97	56	80	46	73	66	77	68	21	74	46
26	65	88	55	95	51	161	66	70	64	19	75	45
27	41	77	56	109	58	117	74	92	60	18	65	43
28	32	71	221	92	56	98	69	76	56	18	57	43
29	28	65	353	84	---	95	60	74	54	17	54	37
30	26	61	190	80	---	95	52	132	54	16	53	31
31	24	---	143	80	---	86	---	75	---	661	47	---
TOTAL	1813.0	4339	3024	2877	1691	3138	4258	9235	5906	1629	17126	1432
MEAN	58.5	145	97.5	92.8	60.4	101	142	298	197	52.5	552	47.7
MAX	549	1070	353	182	79	449	782	2200	1770	661	4060	81
MIN	8.0	22	48	65	46	43	52	39	48	16	47	31
AC-FT	3600	8610	6000	5710	3350	6220	8450	18320	11710	3230	33970	2840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995#, BY WATER YEAR (WY)

MEAN	38.4	24.1	73.9	34.3	69.4	61.4	85.1	197	133	14.5	43.9	23.0
MAX	348	189	1288	410	754	261	507	768	740	52.5	552	138
(WY)	1992	1992	1992	1992	1992	1977	1990	1990	1986	1995	1995	1991
MIN	.000	.000	.42	1.06	1.59	1.59	1.06	1.25	.57	.000	.000	.000
(WY)	1979	1981	1979	1986	1976	1976	1981	1981	1974	1974	1978	1981

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1974 - 1995#	
ANNUAL TOTAL	40924.3		56468.0			
ANNUAL MEAN	112		155		66.5	
HIGHEST ANNUAL MEAN					303	1992
LOWEST ANNUAL MEAN					3.42	1981
HIGHEST DAILY MEAN	4510	May 11	4060	Aug 3	13500	Dec 20 1991
LOWEST DAILY MEAN	2.8	Aug 4	8.0	Oct 3	.00	Jun 23 1974
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 11	12	Oct 1	.00	Jun 23 1974
INSTANTANEOUS PEAK FLOW			9560	Aug 3	27000	Dec 20 1991
INSTANTANEOUS PEAK STAGE			18.51	Aug 3	23.27	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	81170		112000		48160	
10 PERCENT EXCEEDS	189		219		107	
50 PERCENT EXCEEDS	21		.70		5.6	
90 PERCENT EXCEEDS	8.1		31		.38	

e Estimated
Period of regulated streamflow.

08095000 NORTH BOSQUE RIVER NEAR CLIFTON, TX
(Hydrologic index station)

LOCATION.--Lat 31°47'09", long 97°34'04", Bosque County, Hydrologic Unit 12060204, near right bank at downstream side of bridge on Farm Road 219, 0.5 mi northeast of Clifton, 2.5 mi downstream from Meridian Creek, and 42.0 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

PERIOD OF RECORD.--October 1923 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 788: 1924-26, 1928, 1930. WSP 1058: 1945(M). WSP 1512: 1924(M), 1927, 1928(M), 1929, 1930(M), 1931-33, 1934(M), 1935-37, 1939. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder, and crest-stage gage. Datum of gage is 605.43 ft above sea level. Prior to Oct. 1, 1955, and from Apr. 23, 1957, to Mar. 26, 1958, nonrecording gage at site 1.1 mi upstream at datum 17.02 ft higher; Oct. 1, 1955, to Apr. 22, 1957, and Mar. 27, 1958, to Sept. 30, 1959, water-stage recorder destroyed by floods of Apr. 27, 1957, and Oct. 4, 1959) and Oct. 1, 1959, to Jan. 1, 1961, nonrecording gage at present site and datum.

REMARKS.--Records good. The city of Clifton diverts water from the river upstream from this station for municipal use. The cities of Clifton and Meridian discharge sewage effluent into the river upstream and downstream, respectively, from the station. For statement regarding regulation by National Resources Conservation Service floodwater-retarding structures, see station 08094800. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--44 years (water years 1924-67), 195 ft³/s (141,300 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEAR, 1924-67).--Maximum discharge, 92,800 ft³/s Oct. 4, 1959 (gage height, 34.88 ft), from rating curve extended above 34,000 ft³/s on basis of contracted-opening measurement of 92,800 ft³/s; and step back water computation of 200,000 ft³/s; 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,300 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 4	1000	21,400	18.84	Aug. 1	0630	10,400	11.82
May 6	0400	17,100	15.87	Aug. 1	2100	11,100	12.21
May 8	1030	27,200	21.67	Aug. 2	1000	25,000	20.34
June 11	1300	29,100	22.83	Aug. 3	1100	15,700	15.04

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	96	192	544	260	208	282	251	885	143	8390	104
2	22	90	185	459	253	194	263	229	626	137	8150	93
3	21	350	182	427	242	187	244	250	380	130	9260	89
4	23	117	182	408	229	188	9450	292	297	122	3400	87
5	21	848	178	372	222	193	3250	382	255	174	1860	83
6	21	504	173	366	217	191	2500	e9200	238	211	1340	80
7	22	287	166	345	214	193	1360	1790	219	237	1010	78
8	26	208	160	321	209	186	944	15600	202	170	771	77
9	25	217	206	305	207	186	725	3880	185	138	511	75
10	27	213	1720	298	208	174	790	1870	176	119	386	74
11	23	211	867	294	206	169	2430	1290	16300	108	310	75
12	21	179	519	394	203	166	812	1150	3130	102	266	77
13	20	161	399	456	202	1490	571	928	1610	97	243	78
14	21	156	377	345	203	2500	472	699	952	93	223	90
15	23	646	1040	289	212	1210	405	556	642	87	203	146
16	24	537	1500	272	211	944	369	478	461	86	192	105
17	25	354	761	271	202	744	355	427	382	85	181	145
18	988	280	459	557	193	534	1380	384	338	88	161	262
19	1510	247	384	928	187	422	1070	342	308	94	146	115
20	303	676	345	570	183	367	1830	317	283	87	140	154
21	154	2080	307	426	178	324	816	299	256	80	140	127
22	132	804	282	370	173	303	543	280	236	76	129	123
23	106	471	264	339	171	283	430	265	215	72	120	105
24	667	368	259	315	170	264	379	268	193	70	113	100
25	1610	342	248	301	166	260	347	304	178	67	109	98
26	495	317	241	301	218	296	327	290	165	64	106	91
27	260	290	242	345	270	384	302	344	e162	64	103	88
28	181	256	1110	350	244	325	297	344	e160	62	100	86
29	135	226	1790	298	---	324	291	286	159	59	97	82
30	114	206	920	274	---	331	274	1510	149	57	96	79
31	104	---	665	265	---	307	---	598	---	94	125	---
TOTAL	7148	11737	16323	11805	5853	13847	33508	45103	29742	3273	38381	3066
MEAN	231	391	527	381	209	447	1117	1455	991	106	1238	102
MAX	1610	2080	1790	928	270	2500	9450	15600	16300	237	9260	262
MIN	20	90	160	265	166	166	244	229	149	57	96	74
AC-FT	14180	23280	32380	23420	11610	27470	66460	89460	58990	6490	76130	6080

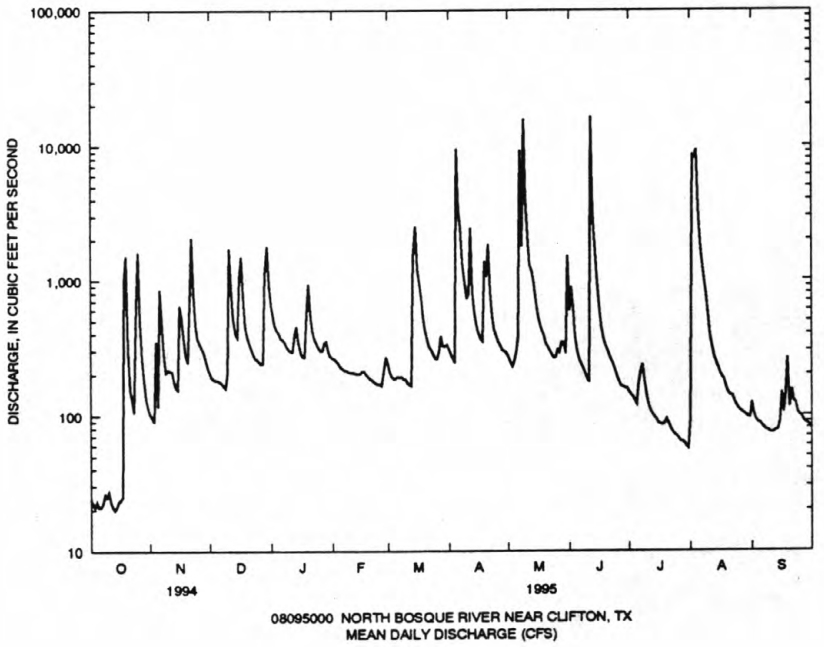
08095000 NORTH BOSQUE RIVER NEAR CLIFTON, TX--Continued
(Hydrologic index station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995#, BY WATER YEAR (WY)

MEAN	128	61.0	353	163	280	305	383	586	340	78.1	79.0	58.3
MAX	1206	430	7330	1405	3738	1316	2340	2412	1517	799	1238	449
(WY)	1972	1992	1992	1992	1992	1992	1990	1968	1989	1968	1995	1986
MIN	.79	.58	.85	2.93	9.77	6.30	2.74	1.40	.44	.17	.16	.088
(WY)	1979	1984	1984	1984	1976	1986	1983	1984	1984	1984	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995#	
ANNUAL TOTAL	118623		219786			
ANNUAL MEAN	325		602		234	
HIGHEST ANNUAL MEAN					1366	1992
LOWEST ANNUAL MEAN					11.7	1984
HIGHEST DAILY MEAN	23900	May 11	16300	Jun 11	96800	Dec 21 1991
LOWEST DAILY MEAN	13	Aug 12	20	Oct 13	.01	Oct 28 1983
ANNUAL SEVEN-DAY MINIMUM	13	Aug 11	22	Oct 1	.03	Oct 28 1983
INSTANTANEOUS PEAK FLOW			29100	Jun 11	200000	Dec 20 1991
INSTANTANEOUS PEAK STAGE			22.83	Jun 11	a38.30	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	235300		435900		169800	
10 PERCENT EXCEEDS	522		1020		360	
50 PERCENT EXCEEDS	54		251		27	
90 PERCENT EXCEEDS	19		81		3.0	

e Estimated
Period of regulated streamflow.
a From floodmark



08095000 NORTH BOSQUE RIVER NEAR CLIFTON, TX
MEAN DAILY DISCHARGE (CFS)

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 mi².

PERIOD OF RECORD.--August 1959, to current year.
Water-quality records.--Chemical and biochemical analyses: October 1980 to September 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.

REMARKS.--Records good. 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 of 207 mi². There are several small diversions above station. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--8 years (water years 1960-67), 263 ft³/s (190,500 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1960-67).--Maximum discharge, 107,000 ft³/s Oct. 4, 1959, (gage height, 40.22 ft, from floodmarks), from rating curve extended above 28,200 ft³/s on basis of slope-area measurement of 107,000 ft³/s; no flow Oct. 5-12, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1868, 44.6 ft (from floodmark) on Dec. 21, 1991. Flood in May 1908, reached a stage of 43 ft, floods in September 1936, and April 1945, reached a stage of about 38 ft, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 4	0830	31,500	28.56	June 11	1700	39,000	31.35
May 6	0600	34,000	29.57	Aug. 3	Unknown	Unknown	Unknown
May 8	1330	42,400	32.48				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	80	192	666	269	201	346	418	1350	e230	e10100	133
2	21	69	177	562	260	174	313	378	995	e213	e10200	114
3	19	352	172	506	240	167	286	418	622	e200	e10300	107
4	22	135	167	484	220	166	15200	498	450	e187	e5400	104
5	20	716	162	431	200	171	4820	458	373	e220	e2800	97
6	19	786	154	411	200	166	3530	15900	338	e255	e1900	92
7	19	376	148	384	191	169	2020	2670	318	e420	e1600	86
8	27	256	142	348	184	165	1510	25000	291	e350	e1400	86
9	23	200	178	326	180	159	1210	6460	262	e280	e890	82
10	25	272	1730	313	178	145	1030	2940	243	e270	e760	77
11	24	225	1140	306	178	136	3010	1990	21200	e250	e630	79
12	21	201	664	326	174	134	1270	1780	4980	e240	e500	79
13	19	161	481	604	171	1390	932	1540	2390	e225	e420	84
14	19	142	405	408	176	2780	803	1210	1610	e220	e360	85
15	23	616	1090	313	188	1560	700	952	1150	e210	e325	166
16	23	692	1470	284	190	1200	630	810	872	e200	e290	124
17	23	448	881	281	181	981	598	728	715	e200	e275	111
18	328	328	564	516	167	714	1630	655	614	e260	260	454
19	2350	276	455	1060	158	560	1480	567	540	e295	220	196
20	508	361	401	715	150	462	2410	518	476	e285	190	241
21	234	2520	361	519	141	389	1270	480	421	e255	183	273
22	162	1060	322	432	136	355	998	443	382	e230	169	258
23	129	621	294	382	130	330	833	415	345	e210	153	176
24	237	455	280	347	129	302	697	414	310	e190	144	145
25	2240	405	267	327	126	300	622	469	283	e180	136	138
26	715	371	255	323	189	451	570	446	258	e165	131	128
27	354	330	251	361	286	496	518	520	237	e160	127	121
28	231	288	988	402	248	409	500	533	237	e150	121	118
29	145	249	2150	326	---	390	490	447	237	e135	118	113
30	113	217	1160	291	---	421	455	2480	232	e120	115	107
31	93	---	813	277	---	385	---	1010	---	e170	148	---
TOTAL	8210	13208	17914	13231	5240	15828	50681	73547	42731	6975	50365	4174
MEAN	265	440	578	427	187	511	1689	2372	1424	225	1625	139
MAX	2350	2520	2150	1060	286	2780	15200	25000	21200	420	10300	454
MIN	19	69	142	277	126	134	286	378	232	120	115	77
AC-FT	16280	26200	35530	26240	10390	31390	100500	145900	84760	13830	99900	8280

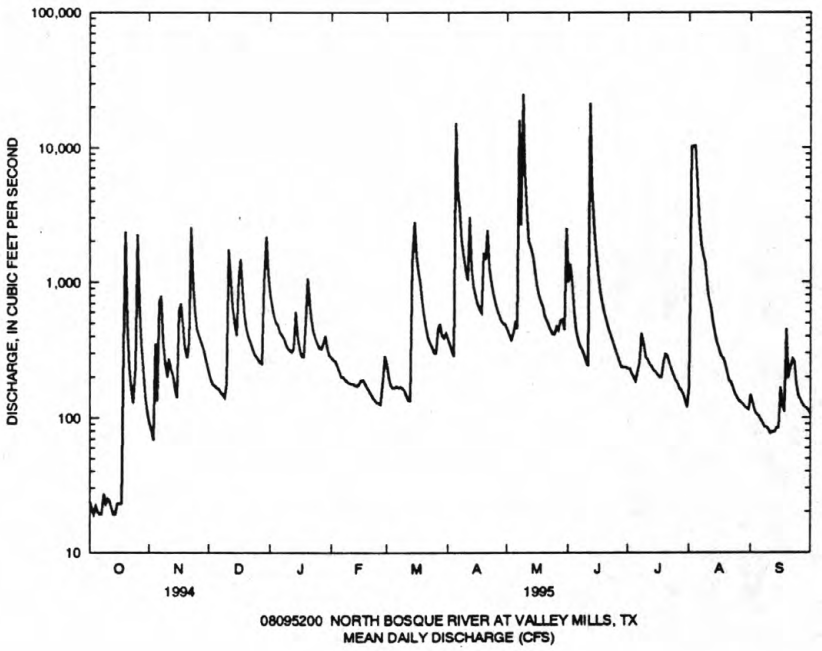
08095200 NORTH BOSQUE RIVER AT VALLEY MILLS, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	150	81.1	376	198	367	390	443	719	427	97.1	103	70.7
MAX	1349	549	7469	1760	5156	2126	2392	2776	1609	712	1625	344
(WY)	1972	1992	1992	1992	1992	1992	1977	1968	1989	1968	1995	1986
MIN	1.35	2.69	4.10	6.78	14.5	15.4	6.02	2.94	.63	.11	1.43	.000
(WY)	1979	1984	1979	1984	1984	1986	1984	1984	1984	1984	1978	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	132371		302104			
ANNUAL MEAN	363		828		285	
HIGHEST ANNUAL MEAN					1664	1992
LOWEST ANNUAL MEAN					14.6	1984
HIGHEST DAILY MEAN	20600	May 11	25000	May 8	123000	Dec 21 1991
LOWEST DAILY MEAN	14	Aug 14	19	Oct 3	.00	Jun 1 1984
ANNUAL SEVEN-DAY MINIMUM	14	Aug 14	21	Oct 1	.00	Jun 17 1984
INSTANTANEOUS PEAK FLOW			42400	May 8	220000	Dec 21 1991
INSTANTANEOUS PEAK STAGE			32.48	May 8	44.60	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	262600		599200		206400	
10 PERCENT EXCEEDS	662		1470		462	
50 PERCENT EXCEEDS	66		302		41	
90 PERCENT EXCEEDS	21		114		6.6	

e Estimated



08095200 NORTH BOSQUE RIVER AT VALLEY MILLS, TX
MEAN DAILY DISCHARGE (CFS)

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.

PERIOD OF RECORD.--August 1959 to September 1985 (continuous record). October 1985 to current year (peaks above base or annual maximum).

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.

REMARKS.--Records good. No known diversions above station. Recording rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE.--26 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 in 1960-64, 1967, 1971, 1978-79, 1981-84, and 1994.

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.

EXTREMES 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)
Apr. 5	1430	11,800	13.07	Aug. 2	0230	9,590	11.64

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.--August 1959 to September 1985 (continuous record). October 1985 to current year (peaks above base or annual maximum).

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.

REMARKS.--Records fair. Flow affected at times by discharge from the flood-detention pools of 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 Cree drainage basin. Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE.--26 years (1959-1985), 32.3 ft^3/s (23,400 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft^3/s Oct. 4, 1959 (gage height, 14.31 ft); no flow at times in 1959, 1963-64, 1971, 1978-79, and 1983-85.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 17.5 ft Sept. 26, 1936. Flood in April or May 1957 reached a stage of 15.7 ft, from information by local residents.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 5	1230	5,970	8.76

08095550 WACO LAKE NEAR WACO, TX

LOCATION.--Lat 31°34'46", long 97°11'51", McLennan County, Hydrologic Unit 12060203, in intake structure at Waco Dam on Bosque River, at northwest edge of city limits of Waco, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--1,652 mi².

PERIOD OF RECORD.--February 1965 to current year. Prior to October 1970, published as Waco Reservoir.
Water-quality records.--Chemical analyses: October 1969 to September 1982

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

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. Capacity table No. 2-C is based on a sedimentation survey completed in December 1970. Flow is affected at times by discharge from the flood-detention pools of 44 floodwater-retarding structures with a combined detention capacity of 76,460 acre-ft. These structures control runoff from 248 mi² in the Bosque River and Hog Creek drainage basins. An unknown amount of water was diverted for municipal and industrial uses. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	510.0	-
Design flood	505.0	824,400
Top of gates	500.0	722,500
Crest of spillway	465.0	229,900
Top of conservation pool	455.0	149,200
Lowest gated outlet (invert)	400.0	560

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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, 221,800 acre-ft May 9 (elevation, 464.11 ft); minimum, 129,400 acre-ft Oct. 15 (elevation, 452.19 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

445.0	85,800	464.0	220,900	482.0	425,100
450.0	114,900	468.0	258,800	484.0	453,500
452.0	128,100	472.0	300,800	486.0	483,000
453.0	135,000	476.0	347,100	488.0	513,600
454.0	142,000	479.0	384,800	490.0	545,200
459.0	179,200				

08095550 WACO LAKE NEAR WACO, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131500	143500	150700	155800	149900	152200	150200	152800	156700	150000	170000	150900
2	131300	143500	150700	154200	149800	152300	150000	151800	156600	150100	180400	150700
3	131100	144000	150900	152500	150100	152400	149800	151200	155600	150300	191200	150600
4	130900	145500	150900	151200	150300	152500	168400	151400	154400	150300	191600	150300
5	130600	146700	150900	150700	150600	152600	181400	152800	153000	150600	186700	150100
6	130400	148200	150800	150700	150500	152500	185600	176200	151400	151400	180400	149900
7	130500	148900	150600	150900	150100	151900	184000	177300	150300	151900	173400	150100
8	130800	149300	150600	151300	149800	151000	179500	208400	149800	152200	165600	149800
9	130400	149900	151000	151700	149600	150400	174000	220600	149900	152300	157600	149700
10	130200	150200	153000	152200	149500	150300	179900	213500	150800	152200	151100	149600
11	130000	150400	154800	152500	149800	150500	178800	204300	175300	151900	149700	149400
12	129800	150700	155700	153300	149800	151000	173900	194800	177500	151400	150200	149300
13	129600	151000	156300	154600	150100	161500	168000	184800	168000	150900	150600	149100
14	129600	151500	156800	154800	150200	168400	163500	174200	158300	150600	151100	149400
15	129700	153000	157700	154700	150400	169600	159800	164900	152900	150700	151700	149400
16	130000	154200	160700	154500	150600	168700	156000	157300	151200	150700	151900	149400
17	130200	154700	159700	153100	150700	166100	154200	153300	151200	150900	152200	149700
18	130600	154500	157700	151600	150700	162900	154900	151000	152200	150800	152300	149700
19	134500	153300	155500	151900	150800	159200	156600	150400	152900	150600	152500	150300
20	135600	152100	153200	152600	150900	155500	161900	150300	153700	150300	152600	150300
21	136100	154100	151300	152700	150900	152300	161700	150000	153800	150000	152600	153600
22	136300	154200	150700	152700	150900	150900	161700	150000	152900	149800	152600	153100
23	136400	153400	151000	152700	150900	150400	161400	150300	152300	149700	152300	151800
24	137400	152400	151200	152400	150900	150600	158300	150700	151900	149500	152700	150500
25	141400	151900	151300	152200	151000	151300	154500	150600	151400	149300	152300	149700
26	142700	152100	151500	152000	151000	152200	151600	150100	150900	149000	151900	149500
27	143200	152000	151400	151800	151600	152500	149900	149800	150900	148800	151400	149500
28	143400	151700	154500	151600	151900	152000	150300	149900	150300	148600	150900	149400
29	143500	151400	158000	151300	---	151700	151700	150100	149700	148300	150600	149400
30	143700	151000	158000	150900	---	151200	152900	153800	149700	148300	150900	149300
31	143700	---	157200	150400	---	150800	---	156000	---	150000	150900	---
MAX	143700	154700	160700	155800	151900	169600	185600	220600	177500	152300	191600	153600
MIN	129600	143500	150600	150400	149500	150300	149800	149800	149700	148300	149700	149100
(+)	454.24	455.25	456.10	455.17	455.37	455.22	455.51	455.93	455.07	455.11	455.24	455.02
(@)	+12100	+7300	+6200	-6800	+1500	-1100	+2100	+3100	-6300	+300	+900	-1600

CAL YR 1994 MAX 198100 MIN 129600 (@) +11500
WTR YR 1995 MAX 220600 MIN 129600 (@) +17700

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

08096500 BRAZOS RIVER AT WACO, TX

LOCATION.--Lat 31°32'09", long 97°04'23", McLennan County, Hydrologic Unit 12060202, on left bank 2.2 mi downstream from bridge on LaSalle Avenue and at mile 400.7.

DRAINAGE AREA.--29,573 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--September 1898 to current year (January 1912 to September 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. Sept. 14, 1898, to Mar. 28, 1918, May 6, 1922, to Feb. 12, 1925, nonrecording gage, and Mar. 28, 1918, to May 5, 1922, Feb. 13, 1925, to Aug. 14, 1969, water-stage recorder. Prior to Aug. 14, 1969, at site 3.9 mi upstream at datum 7.46 ft higher.

REMARKS.--Records fair. Flow is largely regulated by Lake Whitney and by Waco Lake (stations 08092500 and 08095550). 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 sewage effluent to the river above station. There are many other small diversions above station for municipal supply, irrigation, and for oil field operations that will not appreciably affect flow. Flow is affected at times by discharge from the flood-detention pools of eleven floodwater-retarding structures with a combined detention capacity of 6,420 acre-ft. These structures control runoff from 20.4 mi² in the Aquilla and Hackberry Creeks drainage basins. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--42 years (water years 1899-1940), 2,560 ft³/s (1,855,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEAR 1899-1940).--Maximum discharge since 1847, 246,000 ft³/s Sept. 27, 1936 (gage height, 40.90 ft), at former site and datum, levee on left bank was overtopped and broken by flood; no flow Aug. 20,21, 1918, and probably for several days in August 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1550	2770	3540	2090	1480	3600	2810	5440	1840	4040	1700
2	895	1190	1890	4560	2490	1980	3610	3140	4440	1450	7750	1190
3	933	476	1680	4470	1520	1940	3220	3760	4700	1420	16500	1320
4	1820	939	1640	4840	1360	1150	7550	2800	4450	1910	22900	390
5	1010	1660	1670	4510	1470	703	7460	2990	3930	1660	23500	1380
6	1450	627	1630	3960	1590	974	10200	14200	4500	753	22700	1530
7	1550	908	2140	3060	1540	2440	10200	9720	4410	1650	17100	973
8	756	567	1260	3540	2740	2930	10800	21500	3940	1700	16700	981
9	266	602	2260	3120	1710	1730	10700	25400	2460	1430	16600	905
10	203	798	4580	3040	1660	1540	11400	23200	1810	1630	15500	675
11	184	744	2610	990	829	1270	15200	28500	7670	1750	9000	2880
12	181	523	2660	2960	1940	1120	9230	29200	7330	1590	5320	50
13	178	406	2270	4870	2400	8880	8580	20900	18100	1780	5150	15
14	173	397	2720	3590	1240	7920	7770	19200	18400	1620	5160	12
15	293	1630	4580	3030	729	8770	6880	18200	16000	1620	3390	36
16	362	1100	10300	2900	1350	13200	6800	12900	8600	1430	2990	984
17	510	1030	7970	3260	1480	13400	6110	11600	5790	529	2960	1270
18	740	1560	6200	4010	1300	9660	5180	9520	5690	1280	2910	1070
19	333	2660	5980	3990	1100	9410	4940	7110	5640	1350	2900	2010
20	246	2350	7830	2730	837	9040	7580	4820	5570	1380	3020	2110
21	208	3110	7080	2500	1230	6890	6360	4460	3780	1510	1960	1860
22	374	3090	6030	4290	1090	5890	9470	4600	3900	1220	2380	2520
23	272	5650	4490	4460	816	5170	11100	3740	3910	2200	2090	2400
24	238	9650	2790	4320	1060	4820	9660	3070	3700	576	2270	3480
25	897	9380	3240	3270	725	3850	7990	3270	2280	1420	2300	3190
26	1220	5510	4580	2270	1180	3610	5820	3120	2220	2000	1560	2790
27	1690	5370	2660	2080	1000	3820	5730	3120	2590	1790	1620	1870
28	1170	3080	4140	1880	791	4000	4170	2910	1440	1230	747	2050
29	1450	3290	5570	2980	---	3260	2760	2710	2780	1180	1200	1950
30	1880	3350	4900	1820	---	3220	2350	3180	2150	1370	2200	1900
31	1520	---	3570	2660	---	3590	---	3120	---	1730	1870	---
TOTAL	24102	73197	123690	103500	39267	147657	222420	308770	167620	45998	226287	45491
MEAN	777	2440	3990	3339	1402	4763	7414	9960	5587	1484	7300	1516
MAX	1880	9650	10300	4870	2740	13400	15200	29200	18400	2200	23500	3480
MIN	173	397	1260	990	725	703	2350	2710	1440	529	747	12
AC-FT	47810	145200	245300	205300	77890	292900	441200	612400	332500	91240	448800	90230

08096500 BRAZOS RIVER AT WACO, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995#, BY WATER YEAR (WY)

MEAN	2039	1485	1482	1882	2008	2243	2886	5715	4522	1729	1130	1255
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	46.6	55.8	40.8	44.6	28.0	77.3	160	43.5	386	49.2	98.3	97.5
(WY)	1984	1984	1955	1955	1984	1971	1955	1988	1971	1978	1988	1983

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995#	
ANNUAL TOTAL	634788		1527999			
ANNUAL MEAN	1739		4186		2366	
HIGHEST ANNUAL MEAN					9611	1992
LOWEST ANNUAL MEAN					322	1984
HIGHEST DAILY MEAN	10300	Dec 16	29200	May 12	121000	Apr 22 1945
LOWEST DAILY MEAN	19	Aug 16	12	Sep 14	.12	Aug 7 1988
ANNUAL SEVEN-DAY MINIMUM	196	Aug 3	211	Oct 9	4.4	May 13 1988
INSTANTANEOUS PEAK FLOW			30300	May 11	144000	Apr 22 1945
INSTANTANEOUS PEAK STAGE			20.81	May 11	36.70	Apr 22 1945
ANNUAL RUNOFF (AC-FT)	1259000		3031000		1714000	
10 PERCENT EXCEEDS	4600		9570		4830	
50 PERCENT EXCEEDS	1120		2660		844	
90 PERCENT EXCEEDS	252		751		142	

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 mi², of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 279.29 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Many diversions above station for municipal supply, irrigation, and industrial uses. Flow is affected by 20 upstream reservoirs with a total combined capacity of 4,181,000 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 mi² in the Aquilla, Tehuacana, Castleman Creeks, and Cow Bayou basins. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1909, 42 ft in December 1913 and 40 ft in September 1936, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	936	1200	3090	3950	2460	1020	2760	2250	5080	2080	4070	2010
2	968	1240	2460	3710	1950	1330	2910	2680	5900	1820	11100	1770
3	818	900	1670	4420	2260	1790	2790	2990	4980	1470	19700	1580
4	784	645	1530	4280	1440	1740	2720	3490	5030	1450	24700	1400
5	1470	500	1390	4610	1260	1250	8050	2620	4370	1900	26900	1020
6	953	1790	1400	4230	1320	726	8940	4720	4540	1390	26300	1110
7	1060	1080	1290	3650	1380	750	10300	16500	4680	753	22500	1470
8	1480	751	1810	2920	1360	2180	10200	14400	4390	1230	18300	1220
9	1110	700	1240	3410	2470	2570	10400	26000	3400	1330	18000	1070
10	408	479	2200	3050	1630	1550	10200	28900	2450	1150	17800	1010
11	247	539	4240	2720	1500	1210	13600	28200	4100	1290	15100	872
12	181	596	2630	1160	898	964	15500	29800	8010	1450	8320	2450
13	150	533	2490	4130	1550	9520	9710	29800	13400	1400	5530	858
14	134	401	2070	6390	2110	18300	9000	23400	19500	1490	5330	396
15	142	350	3900	4330	1310	13100	7650	21300	19100	1430	5260	343
16	150	1010	8450	3170	754	14000	7060	18500	13800	1400	3440	285
17	228	1440	13200	3000	1070	15100	6910	14200	7500	1310	3160	482
18	323	881	10000	3200	1230	12700	6130	12400	6020	795	3070	1090
19	598	1190	7100	4290	1220	9360	5330	9700	5890	868	3030	1190
20	518	2260	6430	4040	1090	9100	5630	6760	5850	1090	2970	1220
21	313	1990	7820	2810	700	8220	7580	5240	5540	1150	2930	1810
22	220	2750	6840	2840	1010	6340	7050	4870	4030	1220	2230	1620
23	177	3020	5610	4100	1020	5210	10800	4840	4050	1170	2350	2570
24	264	5990	4010	4200	676	4760	12100	3640	4090	1640	2190	2750
25	226	9300	2740	3840	941	4240	9840	3340	3170	651	2310	3300
26	358	8070	3440	3030	714	3360	7800	3330	2420	973	2350	2950
27	720	5260	4020	2190	1010	3130	5900	3320	2510	1610	1720	2470
28	1100	4790	3020	2080	918	3360	5650	3340	2430	1510	1660	1770
29	1050	2900	6230	2070	---	3220	3620	3150	2000	1010	1240	1830
30	923	3070	7620	2640	---	2770	2700	3270	2530	971	1130	1780
31	1390	---	6150	1790	---	2770	---	3680	---	1280	1920	---
TOTAL	19399	65625	136090	106250	37251	165640	228830	340630	180760	40281	266610	45696
MEAN	626	2187	4390	3427	1330	5343	7628	10990	6025	1299	8600	1523
MAX	1480	9300	13200	6390	2470	18300	15500	29800	19500	2080	26900	3300
MIN	134	350	1240	1160	676	726	2700	2250	2000	651	1130	285
AC-FT	38480	130200	269900	210700	73890	328500	453900	675600	358500	79900	528800	90640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995#, BY WATER YEAR (WY)

MEAN	1790	2162	2249	2687	2822	3468	3476	6382	5411	1853	1338	1274
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	382	84.4	167	127
(WY)	1984	1984	1984	1984	1984	1971	1978	1988	1984	1978	1988	1983

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995#	
ANNUAL TOTAL	708708		1633062			
ANNUAL MEAN	1942		4474		2908	
HIGHEST ANNUAL MEAN					11320	1992
LOWEST ANNUAL MEAN					329	1984
HIGHEST DAILY MEAN	16500	May 14	29800	May 12	70300	Dec 22 1991
LOWEST DAILY MEAN	134	Oct 14	134	Oct 14	23	Feb 24 1984
ANNUAL SEVEN-DAY MINIMUM	176	Oct 11	176	Oct 11	23	Sep 15 1984
INSTANTANEOUS PEAK FLOW			30400	May 13	78700	Feb 4 1986
INSTANTANEOUS PEAK STAGE			17.37	May 13	30.78	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	1406000		3239000		2107000	
10 PERCENT EXCEEDS	6080		10600		6480	
50 PERCENT EXCEEDS	946		2570		1060	
90 PERCENT EXCEEDS	357		740		228	

Period of regulated streamflow.

08098290 BRAZOS RIVER NEAR HIGHBANK, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: November 1967 to current year. Pesticide analyses: November 1976 to June 1981. Sediment analyses: October 1974 to July 1994.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1967 to current year.
WATER TEMPERATURES: November 1967 to February 1984, and December 1989 to current year.

INSTRUMENTATION.--Since September 1980, specific conductance is recorded continuously at this station. From October 1980, to February 1984, and since December 1989, water temperature is recorded continuously at this station.

REMARKS.--Interruptions in the record were due to malfunctions of the instruments and siltation over probes. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,000 microsiemens Aug. 24, 1978; minimum daily, 140 microsiemens Mar. 8, 1984.
WATER TEMPERATURES (1980-84, 1989-90): Maximum daily, 35.5°C July 15, 16, 1978; minimum daily, 0.0°C on several days during December 1983 and December 1989.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,540 microsiemens Nov. 3; minimum daily, 170 microsiemens May 9.
WATER TEMPERATURES: Maximum daily, 34.0°C July 12; minimum daily, 9.0°C Jan. 2 and 3 and Feb. 13 and 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN									
26...	1140	2880	1190	--	12.0	260	130	74	19
MAR									
06...	1430	705	997	--	15.5	260	110	77	17
08...	1200	2130	1110	--	10.0	270	120	80	18
APR									
27...	1345	5210	682	--	20.0	220	60	69	11
28...	1045	4860	794	8.0	19.5	220	71	69	12
JUL									
06...	1245	1680	895	7.9	30.0	230	83	68	15

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JAN									
26...	130	3	4.9	130	130	200	0.40	6.3	646
MAR									
06...	100	3	4.5	150	110	140	0.40	5.3	544
08...	120	3	5.1	160	120	170	0.40	7.5	616
APR									
27...	59	2	3.9	160	68	80	0.40	7.1	393
28...	72	2	3.9	150	82	110	0.20	--	440
JUL									
06...	92	3	3.9	150	91	130	0.30	7.8	497

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.	1994	19399	1270	728	38100	220	11400	150	7910	290
NOV.	1994	65625	834	467	82800	120	22100	91	16100	210
DEC.	1994	136090	962	541	199000	150	54500	110	39200	240
JAN.	1995	106250	878	492	141000	130	37400	95	27300	230
FEB.	1995	37251	1020	577	58000	160	16000	110	11500	260
MAR.	1995	165640	748	417	186000	110	47600	79	35300	200
APR.	1995	228830	681	377	233000	92	56800	70	43000	190
MAY	1995	340630	391	213	196000	47	42800	37	34200	120
JUNE	1995	180760	539	297	145000	69	33900	54	26200	150
JULY	1995	40281	887	496	53900	130	14100	95	10400	230
AUG.	1995	266610	723	401	289000	99	71500	75	53800	200
SEPT	1995	45696	1060	600	74000	170	20800	120	14800	260
TOTAL		1633062	**	**	1696000	**	429000	**	320000	**
WTD.AVG.		4474	691	385	**	97	**	72	**	190

08098290 BRAZOS RIVER NEAR HIGHBANK, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	e1450	1340	1140	1240	1340	1150	1250	813	523	645
2	---	---	e1450	1400	1280	1340	1320	1150	1270	813	525	674
3	---	---	e1480	1540	1450	1490	1310	1110	1170	650	528	609
4	---	---	e1480	1520	1460	1490	1360	1130	1250	891	544	725
5	---	---	e1450	1340	1260	1300	1200	1160	1180	921	799	843
6	1500	792	1140	1340	1250	1300	1170	1130	1150	1200	831	1020
7	---	---	e1450	1270	450	748	1210	1110	1140	1200	1080	1140
8	---	---	e1400	660	450	526	1220	1120	1170	1210	1090	1150
9	---	---	e1380	700	460	621	1230	1120	1150	1210	1090	1150
10	---	---	e1350	740	520	671	1190	1000	1160	1220	1110	1190
11	---	---	e1350	940	710	881	1020	914	982	1230	1160	1190
12	---	---	e1400	920	870	888	988	692	827	1210	904	1150
13	---	---	e1410	1130	880	988	780	464	591	1200	881	1110
14	1480	1340	1460	1130	1050	1090	937	559	744	925	603	782
15	1510	1330	1370	1140	1050	1090	809	575	763	689	606	645
16	1490	1270	1360	1140	1050	1100	815	498	662	852	622	665
17	1470	1270	1300	1090	860	949	1060	526	835	972	686	910
18	1330	1100	1270	890	680	725	805	563	680	958	657	830
19	1270	1050	1150	890	700	756	1080	783	964	978	577	819
20	1140	1050	1090	930	670	820	1080	836	1020	682	591	632
21	1100	1050	1080	700	450	540	1230	974	1090	712	580	649
22	1270	1090	1120	670	480	539	1230	1080	1100	717	584	643
23	1310	1100	1160	730	611	709	1330	1070	1200	1000	659	788
24	1460	1130	1250	---	---	e600	1340	1260	1310	1000	883	942
25	1320	1050	1240	---	---	e500	1310	1250	1270	---	---	e1100
26	1290	1050	1130	---	---	e650	1330	1020	1160	---	---	e1150
27	1140	1050	1090	---	---	e900	1370	1060	1240	1110	1040	1080
28	1140	1050	1090	---	---	e1100	1370	1140	1300	1080	980	1040
29	1300	1050	1100	---	---	e1420	1140	798	1030	1050	850	926
30	1280	1000	1120	1350	1140	1240	891	557	776	940	830	865
31	1290	730	974	---	---	---	638	518	546	930	750	802
MONTH	1510	730	1280	1540	450	940	1370	464	1030	1230	523	899

e Estimated

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1000	890	966	970	930	955	800	600	706	1000	900	967
2	1050	820	930	970	820	932	760	600	710	1010	900	977
3	1020	890	947	890	730	817	940	760	878	1010	810	976
4	970	910	934	920	810	868	950	800	897	860	700	785
5	1030	970	1010	920	810	851	1070	510	920	880	700	789
6	1070	980	1040	1010	870	942	540	400	444	770	670	720
7	1120	1050	1080	1040	1010	1030	780	410	614	670	210	411
8	1070	1040	1060	1100	1030	1060	840	780	815	320	210	259
9	1110	1000	1050	1070	810	930	820	790	805	300	170	220
10	1050	950	989	1010	860	925	810	800	808	350	200	314
11	1130	1010	1080	1070	1010	1040	810	450	743	380	340	354
12	1160	1080	1120	1070	1040	1050	460	410	433	390	370	382
13	1170	930	1100	1050	220	502	600	430	521	400	370	385
14	1020	930	994	630	300	437	640	600	624	370	350	358
15	1170	980	1070	310	210	300	660	620	627	360	350	358
16	1140	1010	1090	770	300	499	680	600	646	370	350	359
17	1170	1100	1130	990	770	943	700	600	644	360	330	339
18	1160	1150	1150	1050	970	1010	690	600	646	430	330	354
19	1150	990	1060	1000	860	901	790	610	749	350	330	340
20	1050	960	993	900	860	880	780	650	744	370	310	337
21	1050	1010	1030	880	800	867	730	600	673	380	300	366
22	1050	970	1010	880	750	820	660	400	519	390	370	381
23	1060	1030	1040	800	710	779	810	600	705	410	310	396
24	1040	950	1020	890	700	822	700	600	647	410	390	400
25	1000	920	961	900	800	845	770	600	729	---	---	e500
26	1020	1000	1010	950	810	884	790	700	745	---	---	e600
27	1040	1000	1030	970	950	960	720	600	675	---	---	e600
28	1040	930	990	970	900	947	860	620	749	---	---	e650
29	---	---	---	970	810	913	880	780	833	---	---	e650
30	---	---	---	890	800	856	920	800	881	---	---	e700
31	---	---	---	850	710	804	---	---	---	---	---	e650
MONTH	1170	820	1030	1100	210	851	1070	400	704	1010	170	512

e Estimated

08098290 BRAZOS RIVER NEAR HIGHBANK, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	e600	---	---	e950	877	487	716	830	683	757
2	---	---	e550	---	---	e900	752	424	519	868	684	785
3	---	---	e550	---	---	e900	574	213	399	961	858	881
4	---	---	e550	---	---	e850	736	532	659	930	814	912
5	---	---	e550	---	---	e850	770	651	755	932	805	903
6	---	---	e550	---	---	e850	793	759	778	946	921	933
7	---	---	e550	920	900	e904	805	655	780	947	910	925
8	---	---	e550	913	811	e862	742	645	674	932	905	919
9	---	---	e600	913	804	874	743	646	706	951	908	932
10	---	---	e800	905	804	874	714	691	699	974	924	957
11	---	---	e800	879	858	870	791	651	720	983	947	967
12	460	300	371	901	859	879	792	663	773	1060	965	1010
13	330	190	244	913	811	884	882	663	834	1200	1060	1130
14	390	300	375	913	822	865	895	861	881	1260	1200	1230
15	410	380	392	854	835	843	897	875	887	1320	1260	1300
16	430	400	412	846	766	811	887	779	864	1310	1290	1300
17	430	380	399	839	787	818	901	770	864	1290	895	1150
18	---	---	e750	871	809	843	881	781	851	1170	895	1050
19	---	---	e700	895	852	878	861	772	844	1270	1140	1200
20	---	---	e700	906	864	887	863	774	842	1420	1270	1360
21	---	---	e680	908	868	887	854	821	845	1370	1090	1270
22	---	---	e700	899	869	879	856	823	839	1260	1050	1170
23	---	---	e700	903	870	887	848	823	839	1340	1190	1260
24	---	---	e700	977	872	914	848	815	831	---	---	e1100
25	---	---	e700	916	864	887	953	784	881	---	---	e1050
26	---	---	e900	941	835	903	966	930	944	---	---	e1050
27	---	---	e1000	1010	941	970	956	911	933	---	---	e1100
28	---	---	e950	996	966	986	971	902	927	---	---	e1200
29	---	---	e1100	967	841	935	973	939	964	---	---	e1200
30	---	---	e900	959	853	930	939	885	915	---	---	e1200
31	---	---	---	919	876	891	941	794	859	---	---	---
MONTH	460	190	644	1010	766	886	973	213	801	1420	683	1070
YEAR	1540	170	887									

e Estimated

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.5	24.0	25.0	19.5	18.0	19.0	15.5	13.5	14.5	11.5	10.0	10.5
2	26.5	24.0	25.5	20.5	18.0	19.0	15.0	14.0	14.5	10.5	9.0	9.5
3	27.0	25.0	26.0	23.0	20.0	21.5	16.0	15.0	15.5	11.0	9.0	10.0
4	27.5	26.0	26.5	23.5	22.0	23.0	18.0	16.0	17.0	---	---	---
5	27.5	25.5	26.5	21.5	21.0	21.5	18.5	16.0	17.5	---	---	---
6	26.5	25.0	26.0	21.5	19.5	20.5	19.5	17.5	18.5	---	---	---
7	26.0	25.0	25.5	21.0	18.0	19.5	19.5	18.5	19.0	---	---	---
8	25.5	23.0	23.5	21.5	19.0	20.0	19.0	18.0	18.5	---	---	---
9	23.0	21.0	21.5	21.5	17.5	20.0	18.0	13.0	15.0	13.0	10.0	11.5
10	21.0	20.0	20.5	17.5	16.0	17.0	13.5	12.0	12.5	14.5	12.0	13.0
11	21.0	19.0	20.0	18.5	16.5	17.5	13.5	11.0	12.5	14.5	12.0	13.0
12	20.0	18.5	19.5	17.5	16.0	17.0	11.0	10.0	10.5	13.5	12.0	12.5
13	20.5	20.0	20.5	19.5	17.0	18.0	11.5	10.0	10.5	14.5	10.0	12.0
14	20.5	19.0	20.0	20.5	19.0	20.0	13.0	10.0	11.5	14.5	13.5	14.0
15	20.0	19.0	19.5	20.5	17.0	18.5	13.5	12.5	13.0	13.5	12.0	13.0
16	22.5	20.0	21.5	17.5	16.0	17.0	13.5	13.0	13.0	14.5	12.0	13.0
17	23.5	22.0	22.5	17.5	16.0	17.0	13.5	12.0	13.0	14.5	14.0	14.5
18	23.5	22.0	22.5	18.5	16.5	17.0	13.5	12.0	12.5	14.5	11.0	12.5
19	24.5	21.5	23.0	19.5	18.0	18.5	13.5	12.0	12.5	12.5	10.0	11.5
20	26.5	23.0	25.0	19.0	17.0	18.5	13.5	12.0	13.0	13.0	11.0	12.0
21	27.5	24.0	26.0	18.5	15.5	17.0	13.5	12.0	13.0	13.5	11.5	12.5
22	27.5	24.0	26.0	17.5	15.5	17.0	13.5	12.5	13.0	13.0	11.0	12.0
23	25.5	23.0	25.0	17.5	15.0	16.0	13.5	12.0	12.5	12.0	10.0	10.5
24	25.5	22.0	24.0	14.5	13.5	14.0	13.5	12.0	12.5	11.5	10.0	11.0
25	24.5	19.5	22.0	16.5	15.0	16.5	12.5	11.0	11.5	13.5	10.0	11.0
26	20.5	17.5	19.5	17.5	14.0	16.0	12.5	11.0	11.5	13.0	10.0	11.5
27	19.5	18.0	19.0	19.5	18.0	19.0	12.5	11.0	11.5	15.0	12.5	13.5
28	19.5	17.0	18.5	18.5	16.0	17.5	11.5	11.0	11.5	14.5	13.0	14.0
29	19.5	17.5	19.0	17.5	15.0	16.0	11.5	11.0	11.0	13.5	11.0	12.5
30	22.5	19.0	21.0	16.5	15.0	15.5	12.0	10.0	11.0	12.0	10.5	11.5
31	21.0	19.0	20.0	---	---	---	11.5	10.0	11.0	13.0	10.0	11.5
MONTH	27.5	17.0	22.5	23.5	13.5	18.0	19.5	10.0	13.5	15.0	9.0	12.0

08098290 BRAZOS RIVER NEAR HIGHBANK, TX--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.5	11.0	12.5	15.0	12.5	13.5	18.5	15.5	17.0	23.5	22.5	23.0
2	14.5	11.5	13.0	12.5	10.0	11.0	19.5	16.0	17.5	23.0	21.0	22.0
3	14.5	12.0	13.5	10.0	9.0	10.0	18.0	17.0	17.5	21.5	20.5	21.0
4	15.0	11.5	13.5	11.0	10.0	10.5	17.5	17.0	17.5	23.5	20.5	22.0
5	15.0	12.0	13.5	16.0	11.0	13.5	17.0	15.5	16.5	24.5	22.0	23.0
6	15.0	11.5	13.0	17.0	14.0	15.5	17.5	15.5	16.5	24.0	22.0	23.0
7	13.5	11.5	13.0	17.0	11.5	14.0	18.0	16.5	17.5	22.0	21.0	21.5
8	13.5	10.5	12.0	12.0	10.0	11.0	19.0	17.0	18.0	23.0	21.5	22.0
9	12.5	11.0	11.5	12.5	9.0	10.5	20.0	18.0	19.0	21.5	20.0	21.0
10	14.0	11.5	13.0	14.0	10.5	12.0	19.5	18.0	19.0	22.5	21.0	22.0
11	13.5	11.0	12.5	15.0	12.0	13.5	18.0	17.0	17.5	22.0	21.5	22.0
12	11.0	10.0	10.5	17.5	14.0	15.5	18.0	16.0	17.0	21.5	21.0	21.0
13	10.0	9.0	9.5	17.0	15.0	16.0	19.5	17.0	18.0	22.5	21.0	21.5
14	9.5	9.0	9.0	16.0	14.5	15.5	20.0	18.5	19.0	23.5	22.5	23.0
15	12.5	9.5	11.0	15.0	15.0	15.0	20.0	19.0	19.5	24.0	23.0	23.5
16	13.0	11.5	12.5	15.0	14.0	14.5	20.5	19.5	20.0	24.5	23.0	23.5
17	14.5	11.0	12.5	14.5	13.5	14.0	21.0	19.5	20.5	24.0	23.5	24.0
18	15.0	11.0	13.0	15.0	13.5	14.5	22.0	20.0	21.0	24.0	23.0	23.5
19	17.0	13.0	15.0	16.5	14.5	15.5	22.5	20.5	21.5	24.0	22.5	23.5
20	18.0	13.0	15.5	17.0	15.5	16.5	22.0	20.0	21.0	25.0	22.5	23.5
21	18.5	14.5	16.5	17.0	16.0	16.5	22.0	20.0	21.0	25.5	23.0	24.0
22	17.5	15.0	16.5	18.5	16.0	17.5	21.5	19.5	21.0	25.5	23.5	24.5
23	20.0	16.0	18.0	20.5	18.0	19.0	19.5	17.5	18.5	25.5	24.0	25.0
24	19.5	17.5	18.5	19.5	18.5	19.0	18.5	17.0	17.5	25.5	24.5	25.0
25	18.0	16.0	17.0	19.5	18.5	19.0	19.5	17.5	18.5	25.5	24.5	25.0
26	17.5	16.0	16.5	19.5	18.5	19.0	20.5	18.5	19.5	26.0	24.5	25.5
27	20.0	17.5	18.5	19.0	17.0	18.0	21.5	19.0	20.0	26.0	25.0	25.5
28	19.0	15.0	17.5	18.0	16.0	17.0	21.5	19.5	20.5	26.5	25.5	26.0
29	---	---	---	16.0	14.5	15.5	23.5	20.0	21.5	26.5	26.0	26.0
30	---	---	---	17.0	14.0	15.5	24.5	21.5	23.0	26.5	26.0	26.0
31	---	---	---	17.5	15.5	16.5	---	---	---	26.5	25.0	26.0
MONTH	20.0	9.0	14.0	20.5	9.0	15.0	24.5	15.5	19.0	26.5	20.0	23.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.0	25.5	26.0	28.0	27.0	27.0	27.0	24.0	25.5	---	---	---
2	27.0	25.0	26.0	28.0	27.5	28.0	---	---	---	---	---	---
3	27.5	25.5	26.5	28.5	27.5	28.0	---	---	---	---	---	---
4	28.0	26.0	27.0	28.5	28.0	28.5	---	---	---	---	---	---
5	28.5	26.5	27.5	28.5	27.5	28.0	---	---	---	---	---	---
6	28.0	27.0	27.5	---	---	e28.0	---	---	---	---	---	---
7	29.0	26.5	27.5	32.5	29.5	30.5	---	---	---	---	---	---
8	29.0	27.0	28.0	32.5	28.5	30.5	---	---	---	---	---	---
9	29.0	27.5	28.0	33.5	29.0	31.5	---	---	---	---	---	---
10	29.5	28.0	28.5	33.5	29.5	31.5	---	---	---	---	---	---
11	29.0	26.5	27.5	34.0	30.0	32.0	---	---	---	---	---	---
12	26.5	24.5	26.0	34.0	30.0	32.0	---	---	---	---	---	---
13	27.0	23.5	25.0	33.5	30.5	32.0	---	---	---	---	---	---
14	26.0	24.5	25.5	32.5	30.0	31.5	---	---	---	---	---	---
15	26.0	25.0	25.5	32.5	29.5	31.0	---	---	---	---	---	---
16	26.0	25.0	25.5	31.0	29.0	30.0	---	---	---	---	---	---
17	27.5	25.5	26.5	31.5	27.5	29.5	---	---	---	---	---	---
18	27.5	25.5	26.5	31.5	28.5	30.0	---	---	---	---	---	---
19	28.0	26.5	27.0	32.0	28.0	30.0	---	---	---	---	---	---
20	28.0	26.5	27.5	32.0	28.0	30.0	---	---	---	---	---	---
21	28.5	27.0	27.5	32.0	28.0	30.0	---	---	---	---	---	---
22	28.5	27.0	28.0	31.5	28.5	30.0	---	---	---	---	---	---
23	29.0	27.5	28.0	31.0	28.0	29.5	---	---	---	---	---	---
24	29.0	28.0	28.5	30.0	28.0	29.0	---	---	---	---	---	---
25	29.0	28.0	28.5	30.5	27.5	29.0	---	---	---	---	---	---
26	29.0	28.0	28.5	31.5	27.5	29.5	---	---	---	---	---	---
27	29.0	28.0	28.5	31.5	28.0	30.0	---	---	---	---	---	---
28	28.5	27.5	28.0	32.0	28.0	30.0	---	---	---	---	---	---
29	28.0	26.5	27.0	31.0	27.5	28.5	---	---	---	---	---	---
30	27.0	26.0	26.5	28.0	26.0	27.0	---	---	---	---	---	---
31	---	---	---	26.5	25.5	26.0	---	---	---	---	---	---
MONTH	29.5	23.5	27.0	34.0	25.5	29.5	27.0	24.0	25.5	---	---	---
YEAR	34.0	9.0	19.5									

e Estimated

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 mi downstream from Hog Creek, and 250.1 mi upstream from mouth.

DRAINAGE AREA.--479 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1960 to September 1985 (continuous-record station); October 1985 to current year, (flood-hydrograph partial-record station).

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,209.93 ft above sea level. Prior to Nov. 22, 1960, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Beginning Oct. 1, 1985, only daily discharges greater than 600 ft³/s are published. Flow is regulated by Leon Reservoir (capacity 40,200 acre-ft), about 17.5 mi upstream. There are numerous diversions above station for municipal, steam powerplant operation, and other uses. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s Apr. 26, 1990 (gage height, 19.00 ft, from floodmarks), from rating curve extended above 17,600 ft³/s; prior to Apr. 26, 1990, maximum discharge, 7,540 ft³/s June 21, 1968, (gage height, 15.50 ft); no flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 19.3 ft occurred in May 1908 at a point 2,000 ft downstream from present gage site and is the highest since that time, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 21	0330	1,620	11.00	Aug. 2	0930	6,160	15.00
May 8	2230	1,540	10.48				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	2670	---
2	---	---	---	---	---	---	---	---	---	---	5830	---
3	---	---	---	---	---	---	---	---	---	---	4790	---
4	---	---	---	---	---	---	---	---	---	---	3680	---
5	---	---	---	---	---	---	---	---	---	---	1520	---
6	---	---	---	---	---	---	---	---	---	---	831	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	1290	---	---	---	---
9	---	---	---	---	---	---	---	1040	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	1020	---	---	---
12	---	---	---	---	---	---	---	---	875	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	703
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	926	---	---	---	---	---	---	---	---	---	610
21	---	837	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---

08099100 LEON RIVER NEAR DE LEON, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1980 to September 1982, and October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
NOV												
15...	1310	9.4	1150	8.2	14.0	14	7.4	8.8	89	1.3	340	120
JAN												
11...	1025	12	1250	8.3	9.0	13	2.2	11.8	108	1.0	370	160
APR												
11...	1342	77	783	7.9	15.5	18	14	9.7	103	1.2	230	92
JUN												
13...	0942	445	635	7.9	23.5	27	35	7.7	95	2.0	180	75
JUL												
11...	1012	1.7	1700	8.1	24.5	16	2.4	7.4	94	0.9	470	280
AUG												
29...	0820	4.4	1990	7.9	24.5	12	5.1	5.8	74	1.2	630	340

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
NOV											
15...	100	21	97	2	5.8	210	96	180	0.30	12	640
JAN											
11...	110	23	110	2	4.8	210	99	220	0.30	6.2	700
APR											
11...	72	13	63	2	6.1	140	61	130	0.20	6.1	436
JUN											
13...	57	10	51	2	6.6	110	49	96	0.20	5.5	342
JUL											
11...	140	30	160	3	6.5	190	160	320	0.30	9.7	941
AUG											
29...	190	37	180	3	5.9	280	170	390	0.30	16	1160

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
NOV											
15...	12	<1	--	--	0.010	--	<0.050	<0.015	--	0.30	0.050
JAN											
11...	11	<1	--	0.060	<0.010	0.060	0.060	<0.015	--	<0.20	<0.010
APR											
11...	35	6	29	--	<0.010	--	<0.050	<0.015	--	0.40	<0.010
JUN											
13...	99	10	89	0.080	<0.010	0.080	0.080	0.030	0.37	0.40	0.020
JUL											
11...	7	6	1	0.050	<0.010	0.050	0.050	0.030	0.17	0.20	<0.010
AUG											
29...	14	4	10	--	<0.010	--	<0.050	<0.015	--	0.20	0.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV											
15...	0.050	0.15	5.4	--	--	--	--	--	--	--	--
JAN											
11...	<0.010	--	6.8	<1	170	<0.5	<1.0	<5	<3	<10	14
APR											
11...	<0.010	--	7.0	--	--	--	--	--	--	--	--
JUN											
13...	0.020	0.06	8.0	1	120	<0.5	<1.0	<5	<3	<10	16
JUL											
11...	<0.010	--	3.9	--	--	--	--	--	--	--	--
AUG											
29...	0.020	0.06	7.1	2	270	<0.5	<1.0	<5	<3	<10	14

08099100 LEON RIVER NEAR DE LEON, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	<10	16	170	0.1	10	<10	<1	<1.0	820	<6	6
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	<10	5	<1	0.1	<10	<10	<1	1.0	380	<6	<3
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
29...	<10	26	290	<0.1	30	<10	<1	<1.0	1300	<6	8

08099300 SABANA RIVER NEAR DE LEON, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 32°06'50", long 98°36'19", Comanche County, Hydrologic Unit 12070201, on left bank at downstream end of bridge on Farm Road 587, 0.6 mi downstream from Spring Branch, 4.0 mi west of De Leon, 4.2 mi upstream from Turkey Creek, and 12.2 mi upstream from mouth.

DRAINAGE AREA.--264 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1960 to September 1985 (continuous-record station). October 1985 to current year.(flood-hydrograph partial-record station).

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. 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.

REMARKS.--No estimated daily discharges. Records good. Beginning Oct. 1, 1985, only daily discharges greater than 250 ft³/s are published. Flow may be slightly affected by Nabors Lake 0.4 mi upstream on Spring Branch. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft³/s Apr. 26, 1990 (gage height, 23.65 ft), from floodmark, from rating curve extended above 17,000 ft³/s; prior to Apr. 26, 1990, maximum discharge, 10,400 ft³/s June 5, 1986, (gage height, 21.99 ft); no flow at times most years.

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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 19	0300	2,890	19.01	May 8	1300	2,390	17.99
Nov. 20	1830	2,450	18.15	Aug. 1	1330	8,960	21.63
Apr. 5	2230	1,830	16.17	Sept. 18	1600	2,000	16.82

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	5520	---
2	---	---	---	---	---	---	---	---	---	---	1150	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	873	---	---	---	420	---
6	---	---	---	---	---	---	987	546	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	1690	---	---	---	---
9	---	---	---	---	---	---	---	315	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	683	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	514
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	1220	---	---	---	---	---	---	---	---	---	---	933
19	1230	---	---	---	---	---	---	---	---	---	---	---
20	---	1350	---	---	---	---	---	---	---	---	---	---
21	---	458	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	376	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---

08099300 SABANA RIVER NEAR DE LEON, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
NOV												
15...	1548	14	992	8.2	15.0	17	4.3	10.6	110	1.2	340	100
JAN												
11...	1325	14	1190	8.2	10.5	25	13	11.9	113	1.2	380	150
APR												
11...	1642	34	1020	8.0	18.5	45	12	9.1	103	1.8	320	100
JUN												
13...	1210	73	604	7.9	23.5	150	78	8.0	99	3.4	160	64
JUL												
11...	1345	4.9	859	8.2	29.5	68	15	8.8	122	2.4	250	96
AUG												
29...	1305	3.4	1230	7.9	25.5	14	3.0	7.2	93	1.2	460	140

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
NOV												
15...	98	24	73	2	5.4	240	120	100	0.30	14	580	11
JAN												
11...	100	31	98	2	5.4	230	110	180	0.30	9.9	672	17
APR												
11...	88	24	86	2	6.2	220	82	140	0.30	13	571	21
JUN												
13...	44	13	51	2	7.8	100	33	100	0.20	7.7	319	64
JUL												
11...	69	20	70	2	6.3	160	61	120	0.40	9.0	452	29
AUG												
29...	130	32	95	2	4.7	320	150	130	0.40	18	755	4

DATE	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
NOV											
15...	2	9	0.130	--	<0.010	0.130	0.130	<0.015	--	0.30	0.020
JAN											
11...	2	15	0.130	--	<0.010	0.130	0.130	0.020	0.28	0.30	0.020
APR											
11...	7	14	0.060	--	<0.010	0.060	0.060	<0.015	--	0.50	0.030
JUN											
13...	8	56	0.350	0.350	0.030	0.380	0.380	0.080	0.62	0.70	0.120
JUL											
11...	13	16	0.150	0.150	0.010	0.160	0.160	0.030	0.37	0.40	0.030
AUG											
29...	2	2	0.110	--	<0.010	0.110	0.110	<0.015	--	0.20	0.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV											
15...	<0.010	--	5.1	--	--	--	--	--	--	--	--
JAN											
11...	0.010	0.03	6.5	<1	120	<0.5	<1.0	<5	<3	<10	12
APR											
11...	0.040	0.12	10	--	--	--	--	--	--	--	--
JUN											
13...	0.110	0.34	12	2	83	<0.5	1.0	<5	<3	<10	46
JUL											
11...	0.030	0.09	7.4	--	--	--	--	--	--	--	--
AUG											
29...	0.010	0.03	5.0	2	160	<0.5	<1.0	<5	<3	<10	11

08099300 SABANA RIVER NEAR DE LEON, TX--Continued
(Flood-hydrograph partial-record station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	<10	19	100	0.1	<10	<10	<1	<1.0	990	<6	<3
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	<10	6	8	<0.1	<10	<10	<1	<1.0	510	<6	<3
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
29...	<10	37	180	0.4	30	<10	<2	<1.0	1000	<6	9

08099400 PROCTOR LAKE NEAR PROCTOR, TX

LOCATION.--Lat 31°58'07", long 98°29'09", Comanche County, Hydrologic Unit 12070201, in intake structure at Proctor Lake on Leon River, 2.0 mi upstream from U.S. Highways 67 and 377, 3.5 mi west of Proctor, and 228.1 mi upstream from mouth.

DRAINAGE AREA.--1,259 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--January 1963 to current year. Prior to October 1970, published as Proctor Reservoir.

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.

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 July 5, 1963. The gates were closed July 6, 1963, but the lake was operated as a detention basin to elevation 1,156.0 ft until construction was completed. Deliberate impoundment began Sept. 30, 1963. The spillway is a gated concrete gravity structure located on the left bank, with an ogee weir section and basin. The spillway is controlled by eleven 40.0- by 35.0-foot tainter gates. The spillway was designed to discharge 431,800 ft³/s at an elevation of 1,201.0 ft. The lake is operated for flood control and water conservation. Inflow is partly regulated by 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 mi² in the Leon River and Rush Creek drainage basins. The capacity table is based on a survey made in 1946. Borrow is not included in capacity totals. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	1,206.0	-
Design flood	1,201.0	433,000
Top of gates	1,197.0	374,200
Crest of spillway (top of conservation pool)	1,162.0	59,400
Lowest gated outlet (invert)	1,128.0	68

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 383,100 acre-ft May 2, 1990 (elevation, 1,197.63 ft); minimum since first filling of lake, 18,900 acre-ft Oct. 4, 1984 (elevation, 1,149.37 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 126,500 acre-ft Aug. 7 (elevation, 1,173.36 ft); minimum, 49,630 acre-ft Oct. 17 (elevation, 1,159.76 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

1,157.0	32,210	1,172.0	116,900	1,184.0	218,100
1,158.0	42,793	1,175.0	138,700	1,186.0	238,900
1,161.0	54,890	1,178.0	162,700	1,188.0	260,800
1,164.0	69,060	1,181.0	189,200	1,190.0	283,900
1,168.0	91,170				

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51250	58840	64400	60790	60930	59850	59620	61870	70850	61680	85120	76550
2	51120	58930	63580	60790	60600	59810	59480	61110	70290	61440	103200	75370
3	50960	58840	62820	61020	60270	59760	59950	60510	69420	61110	113300	74140
4	50910	59350	62060	60970	59950	59810	62480	60180	68610	60970	120200	72980
5	50710	59350	61250	60830	59670	59850	67350	62820	67550	61300	125200	71730
6	50540	59350	60740	60830	59530	60600	74040	68000	66760	61160	126500	70490
7	50660	59300	60320	60600	59480	60040	75790	70230	65970	61210	125500	69370
8	50500	59300	60230	60510	59440	59850	76280	77090	65030	61160	123500	68150
9	50330	59580	60040	60370	59440	59810	76170	83010	64400	61070	121200	67000
10	50210	59440	59670	60270	59440	59760	76280	84840	64310	60880	118800	66160
11	50090	59390	59390	60180	59480	59670	75370	85300	67350	60690	116400	65030
12	49960	59350	59390	60090	59350	60180	74890	85180	70700	60460	113900	64110
13	49840	59350	59480	59900	59440	61300	74250	84950	72770	60270	111400	65520
14	49840	59900	59580	59810	59390	62530	73610	84490	73190	60040	108900	66610
15	49760	59810	59720	59810	59530	63010	73030	83980	72720	59760	106600	66210
16	49720	59760	59810	59990	59670	62770	72250	83240	72040	59580	104000	65470
17	49920	59850	59850	60090	59530	62480	71780	82500	71260	59390	101600	64550
18	50910	59900	59900	60410	59530	62060	71060	81490	70390	59120	99260	66610
19	56170	60040	59990	60550	59530	61540	70540	80490	69520	58800	96960	68410
20	57520	63290	60090	60550	59530	61020	69880	79380	68610	58610	94680	68960
21	57970	69010	60090	60650	59530	60740	69160	78390	67700	58340	92440	69570
22	58340	70490	59900	60790	59530	60650	68710	77410	66760	58110	90220	69110
23	58430	70130	59760	60790	59530	60510	67650	76550	65820	57880	88320	68560
24	59070	69570	59760	60830	59530	60320	66900	75690	64940	57700	86800	67900
25	59210	68960	59670	60930	59480	60460	66160	74730	63920	57520	85470	67150
26	59160	68150	59580	61070	59760	60410	65570	73820	63340	57300	84210	66260
27	59120	67600	59900	61210	59850	60270	64790	72930	62860	57070	82960	65430
28	59070	66900	60370	61250	59850	60230	64020	72090	62480	56800	81660	64550
29	59070	66060	60460	61300	---	60090	63490	71570	62150	56620	80380	63630
30	59020	65230	60650	61250	---	59950	62630	70900	61870	56220	79110	62960
31	59020	---	61020	61160	---	59810	---	70700	---	59760	77790	---
MAX	59210	70490	64400	61300	60930	63010	76280	85300	73190	61680	126500	76550
MIN	49720	58840	59390	59810	59350	59670	59480	60180	61870	56220	77790	62960
(+)	1161.92	1163.23	1162.35	1162.38	1162.10	1162.09	1162.69	1164.32	1162.53	1162.08	1165.66	1162.76
(@)	+7690	+6210	-4210	+140	-1310	-40	+2820	+8070	-8830	-2110	+18030	-14830

CAL YR 1994 MAX 150900 MIN 49720 (@) +1490
WTR YR 1995 MAX 126500 MIN 49720 (@) +11630

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

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: January 1964 to July 1982, January 1990 to current year.

REVISED RECORDS.--TX-93-2 Phytoplankton.

315814098291201 - PROCTOR LAKE SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
FEB										
08...	1008	59400	1.00	596	8.2	10.0	0.91	10.7	97	21
08...	1010	--	10.0	596	8.1	10.0	--	10.4	94	--
08...	1012	--	20.0	595	8.1	10.0	--	10.4	94	--
08...	1014	--	27.0	596	8.0	10.0	--	10.4	94	--
APR										
12...	0935	74900	1.00	710	8.3	17.0	0.73	7.8	84	K13
12...	0937	--	10.0	710	8.3	17.0	--	7.8	84	--
12...	0939	--	20.0	709	8.3	17.0	--	7.6	82	--
12...	0941	--	30.0	704	8.2	17.0	--	7.0	75	--
AUG										
01...	0830	85100	1.00	673	8.0	27.5	0.49	5.2	69	K350
01...	0832	--	10.0	673	8.0	27.5	--	5.2	69	--
01...	0834	--	20.0	673	8.0	27.5	--	5.2	69	--
01...	0836	--	27.0	674	7.9	27.5	--	5.2	69	--

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)
FEB									
08...	K1	190	62	50	15	44	1	7.6	120
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	--	190	63	50	16	45	1	7.2	130
APR									
12...	K7	220	77	58	19	55	2	6.9	150
12...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
12...	--	220	72	57	18	53	2	6.9	140
AUG									
01...	160	190	66	47	17	55	2	7.4	120
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
01...	--	190	71	47	18	58	2	7.0	120

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
FEB									
08...	47	78	0.20	3.4	320	0.040	0.040	0.020	0.060
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	45	77	0.20	3.5	321	0.040	0.040	0.020	0.060
APR									
12...	57	100	0.20	3.2	387	0.060	0.060	0.020	0.080
12...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
12...	57	100	0.20	3.4	382	0.060	0.060	0.020	0.080
AUG									
01...	48	100	0.20	5.7	353	--	--	<0.010	--
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
01...	48	96	0.20	5.6	353	--	--	<0.010	--

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

315814098291201 - PROCTOR LAKE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB									
08...	0.060	0.040	0.36	0.40	<0.010	<0.010	--	<3	<1
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	0.060	0.050	0.35	0.40	<0.010	<0.010	--	<3	5
APR									
12...	0.080	0.100	0.30	0.40	<0.010	<0.010	--	<3	1
12...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
12...	0.080	0.140	0.36	0.50	0.030	0.020	0.06	4	40
AUG									
01...	<0.050	0.090	0.41	0.50	<0.010	<0.010	--	<3	11
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
01...	<0.050	0.100	0.30	0.40	<0.010	<0.010	--	4	27

315823098282801 - PROCTOR LAKE SITE AL

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB							
08...	1028	1.00	595	8.2	10.5	10.6	97
08...	1030	10.0	594	8.2	10.0	10.5	95
08...	1032	20.0	594	8.2	10.0	10.5	95
08...	1034	28.0	595	8.2	10.0	10.3	93
APR							
12...	0956	1.00	721	8.4	17.0	8.0	86
12...	0958	10.0	724	8.4	17.0	7.8	84
12...	1000	20.0	724	8.3	17.0	7.8	84
12...	1002	31.0	724	8.3	17.0	7.5	80
AUG							
01...	0852	1.00	678	7.8	27.5	4.8	64
01...	0854	10.0	678	7.8	27.5	4.8	64
01...	0856	20.0	677	7.8	27.5	4.7	63
01...	0858	28.0	676	7.8	27.0	4.6	61

315832098302301 - PROCTOR LAKE SITE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB							
08...	1044	1.00	660	8.2	10.5	10.4	95
08...	1046	10.0	695	8.2	10.5	10.1	92
08...	1048	18.0	697	8.2	10.5	10.0	91
APR							
12...	1010	1.00	617	8.2	17.5	7.3	79
12...	1012	10.0	623	8.1	17.5	6.8	74
12...	1014	21.0	674	8.0	17.0	5.3	57
AUG							
01...	0905	1.00	680	8.0	27.0	5.2	69
01...	0907	10.0	678	8.0	27.0	5.1	67
01...	0909	18.0	659	7.9	27.0	5.0	66

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

315837098314201 - PROCTOR LAKE SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
08...	1055	1.00	764	8.3	10.0	10.9	99
08...	1057	6.00	773	8.3	10.0	10.5	95
APR							
12...	1029	1.00	588	8.1	17.0	6.9	74
12...	1031	9.00	587	8.0	16.5	6.3	67
AUG							
01...	0918	1.00	302	7.9	23.5	4.7	58
01...	0920	7.00	295	7.9	23.5	4.6	57

315943098273101 - PROCTOR LAKE SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
08...	1112	1.00	603	8.3	10.5	11.2	102
08...	1114	10.0	603	8.2	9.5	10.4	93
APR							
12...	1045	1.00	737	8.5	17.5	8.4	91
12...	1047	13.0	738	8.5	17.5	8.2	89
AUG							
01...	0934	1.00	650	7.8	26.5	4.7	61
01...	0936	11.0	526	7.7	25.5	4.9	63

315924098285501 - PROCTOR LAKE SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)
FEB											
08...	1122	1.00	630	8.3	10.5	0.61	11.1	102	34	K1	200
08...	1124	10.0	634	8.2	10.0	--	10.4	94	--	--	--
08...	1126	20.0	635	8.2	10.0	--	10.4	94	--	--	200
APR											
12...	1056	1.00	789	8.5	17.5	0.73	7.9	86	K4	K8	240
12...	1058	10.0	800	8.5	17.5	--	7.7	83	--	--	--
12...	1100	23.0	824	8.5	17.5	--	7.8	84	--	--	250
AUG											
01...	0945	1.00	670	7.8	27.5	0.55	4.7	63	120	250	190
01...	0947	10.0	671	7.8	27.5	--	4.6	61	--	--	--
01...	0949	20.0	673	7.8	27.0	--	4.6	61	--	--	190

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
FEB											
08...	70	54	16	48	1	7.4	130	49	88	0.20	3.6
08...	--	--	--	--	--	--	--	--	--	--	--
08...	78	55	16	49	1	7.2	120	50	88	0.20	3.7
APR											
12...	83	64	19	63	2	6.6	150	63	120	0.20	3.3
12...	--	--	--	--	--	--	--	--	--	--	--
12...	91	67	20	68	2	6.8	160	66	130	0.20	3.4
AUG											
01...	73	48	18	59	2	7.4	120	47	100	<0.10	6.0
01...	--	--	--	--	--	--	--	--	--	--	--
01...	73	48	18	58	2	7.4	120	47	100	0.20	6.0

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

315924098285501 - PROCTOR LAKE SITE EC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
08...	345	0.020	<0.050	<0.015	--	0.30	<0.010	<0.010	--	<3	<1
08...	--	--	--	--	--	--	--	--	--	--	--
08...	344	0.020	<0.050	0.020	0.28	0.30	<0.010	<0.010	--	<3	7
APR											
12...	432	0.010	<0.050	0.090	0.41	0.50	<0.010	<0.010	--	<3	<1
12...	--	--	--	--	--	--	--	--	--	--	--
12...	457	<0.010	<0.050	0.050	0.35	0.40	<0.010	<0.010	--	<3	4
AUG											
01...	358	<0.010	<0.050	0.150	0.35	0.50	0.020	0.020	0.06	<3	5
01...	--	--	--	--	--	--	--	--	--	--	--
01...	357	<0.010	<0.050	0.150	0.35	0.50	0.030	0.020	0.06	<3	4

320040098293501 - PROCTOR LAKE SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
FEB											
08...	1141	1.00	815	8.3	10.5	0.46	11.0	101	K3	<1	260
08...	1143	9.00	830	8.2	10.5	--	10.1	93	--	--	260
APR											
12...	1117	1.00	863	8.5	18.0	0.61	7.6	83	K1	K9	260
12...	1119	12.0	863	8.4	17.5	--	6.3	68	--	--	260
AUG											
01...	1002	1.00	668	7.8	26.0	0.18	5.4	70	150	160	190
01...	1004	10.0	661	7.8	25.5	--	5.2	67	--	--	180

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
FEB											
08...	94	72	19	66	2	7.1	160	65	120	0.20	4.3
08...	90	73	19	67	2	7.2	170	67	120	0.20	4.5
APR											
12...	100	70	20	73	2	6.5	160	66	140	0.20	5.2
12...	97	70	20	72	2	6.5	160	66	130	0.20	5.4
AUG											
01...	78	48	16	61	2	7.0	110	48	100	0.20	6.7
01...	71	47	15	60	2	6.9	110	48	110	0.20	6.8

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
08...	452	0.010	<0.050	<0.015	--	0.30	0.020	0.010	0.03	<3	1
08...	461	0.020	<0.050	0.020	0.28	0.30	<0.010	0.010	0.03	<3	4
APR											
12...	475	<0.010	<0.050	0.060	0.34	0.40	<0.010	0.020	0.06	<3	2
12...	466	<0.010	<0.050	0.100	0.30	0.40	0.010	0.020	0.06	6	7
AUG											
01...	352	<0.010	<0.050	0.180	0.52	0.70	0.040	0.030	0.09	<3	2
01...	359	<0.010	<0.050	0.180	0.32	0.50	0.040	0.030	0.09	<3	6

08099400 PROCTOR LAKE NEAR PROCTOR, TX

Proctor Lake Site AC (315814098291201)

Phytoplankton Analyses October 1994 to September 1995

Date	2-8-95
Time	1008
TOTAL CELLS/mL	23,971
NUMBER OF SPECIES	17
DEPTH COLLECTED (ft.)	1.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	178
Order Pennales	
Cocconeis placentula	92
Cymbella lanceolata	92
Fragilaria crotonensis	322
CHLOROPHYTA	
Ankistrodesmus falcatus	446
Chlamydomonas sp.	178
Closterium dianae	59
Cosmarium sp.	30
Pediastrum duplex	30
Scenedesmus bijuga	59
Scenedesmus opoliensis	149
Selenastrum Westii	149
CYANOPHYTA	
Aphanocapsa delicatissima	16,357
Aphanocapsa elachista	4,164
Chroococcus limneticus	595
Merismopedia tenuissima	952
EUGLENOPHYTA	
Trachelomonas sp.	119

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

Proctor Lake Site FC (320040098293501)

Phytoplankton Analyses October 1994 to September 1995

Date	2-8-95
Time	1141
TOTAL CELLS/mL	17,695
NUMBER OF SPECIES	12
DEPTH COLLECTED (ft.)	0.75

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	59
Order Pennales	
Fragilaria crotonensis	1,696
Pinnularia brevicostata	58
CHLOROPHYTA	
Ankistrodesmus falcatus	714
Scenedesmus bijuga	89
Scenedesmus opoliensis	30
Staurastrum sp.	30
CYANOPHYTA	
Aphanocapsa delicatissima	7,732
Aphanocapsa elachista	5,948
Chroococcus limneticus	357
Merismopedia tenuissima	952
EUGLENOPHYTA	
Trachelomonas sp.	30

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

Proctor Lake Site AC (315814098291201)

Phytoplankton Analyses October 1994 to September 1995

Date	4-12-95
Time	0935
TOTAL CELLS/mL	7,733
NUMBER OF SPECIES	13
DEPTH COLLECTED (ft.)	1.2

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	30
Order Pennales	
Fragilaria crotonensis	30
CHLOROPHYTA	
Ankistrodesmus falcatus	89
Chlamydomonas sp.	59
Cosmarium sp.	357
Scenedesmus opoliensis	119
Selenastrum Westii	59
CYANOPHYTA	
Anabaena spiroides	595
Aphanocapsa delicatissima	3,569
Aphanocapsa elachista	595
Chroococcus limneticus	595
EUGLENOPHYTA	
Trachelomonas sp.	714
CRYPTOPHYTA	
Cryptomonas erosa	922

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

Proctor Lake Site FC (320040098293501)

Phytoplankton Analyses October 1994 to September 1995

Date	4-12-95
Time	1117
TOTAL CELLS/mL	10,525
NUMBER OF SPECIES	20
DEPTH COLLECTED (ft.)	1.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	191
Stephanodiscus astraea	76
Order Pennales	
Fragilaria crotonensis	139
Navicula cuspidata	69
Navicula sp.	69
Nitzschia denticula	35
Pinnularia brevicostata	69
Synedra ulna	35
CHLOROPHYTA	
Ankistrodesmus falcatus	416
Chlamydomonas sp.	119
Pediastrum duplex	178
Scenedesmus bijuga	30
Scenedesmus opoliensis	208
Selenastrum Westii	297
Staurastrum sp.	59
CYANOPHYTA	
Aphanocapsa delicatissima	6,840
Aphanocapsa elachista	1,190
Chroococcus limneticus	119
EUGLENOPHYTA	
Trachelomonas sp.	327
CRYPTOPHYTA	
Cryptomonas erosa	59

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

Proctor Lake Site AC (315814098291201)

Phytoplankton Analyses October 1994 to September 1995

Date	8-1-95
Time	0830
TOTAL CELLS/mL	49,220
NUMBER OF SPECIES	16
DEPTH COLLECTED (ft.)	0.80

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	223
Stephanodiscus astraea	74
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	268
CHLOROPHYTA	
Ankistrodesmus falcatus	1,190
Cosmarium sp.	30
Pediastrum duplex	178
Selenastrum Westii	119
CYANOPHYTA	
Anabaena spiroides	595
Anabaenopsis Elenkinii	1,903
Aphanocapsa delicatissima	8,922
Aphanocapsa elachista	1,784
Chroococcus limneticus	2,022
Merismopedia tenuissima	13,205
Oscillatoria sp.	18,439
EUGLENOPHYTA	
Trachelomonas sp.	238
PYRRHOPHYTA	
Peridinium pusillum	30

08099400 PROCTOR LAKE NEAR PROCTOR, TX--Continued

Proctor Lake Site FC (320040098293501)

Phytoplankton Analyses October 1994 to September 1995

Date	8-1-95
Time	1002
TOTAL CELLS/mL	30,305
NUMBER OF SPECIES	15
DEPTH COLLECTED (ft.)	0.30

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	649
Stephanodiscus astraea	65
Order Pennales	
Asterionella formosa var. *formosa*	74
Gyrosignma acuminatum	37
Navicula sp.	37
CHLOROPHYTA	
Ankistrodesmus falcatus	297
Chlamydomonas sp.	59
Pediastrum duplex	30
Scenedesmus opoliensis	30
CYANOPHYTA	
Anabaenopsis Elenkinii	595
Aphanocapsa delicatissima	1,190
Chroococcus limneticus	357
Merismopedia tenuissima	238
Oscillatoria sp.	26,171
EUGLENOPHYTA	
Trachelomonas sp.	476

08099500 LEON RIVER NEAR HASSE, TX

LOCATION.--Lat 31°57'28", long 98°27'32", Comanche County, Hydrologic Unit 12070201, at left bank near upstream end of bridge on U.S. Highways 67 and 377, 500 ft upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 0.3 mi upstream from Walnut Creek, 2.0 mi downstream from Proctor Lake, 2.1 mi northeast of Hasse, and 225.2 mi upstream from mouth.

DRAINAGE AREA.--1,261 mi².

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1980 to September 1982, October 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB 07...	1247	35	676	8.2	10.0	15	8.5	10.7	98	2.3	210	68
APR 12...	1315	591	716	8.3	18.0	25	23	9.4	103	1.9	220	78
JUL 31...	1330	73	698	7.8	27.0	20	22	5.5	72	2.1	190	64

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
FEB 07...	57	17	50	1	7.0	150	50	88	0.30	4.1	361	20
APR 12...	58	19	55	2	7.0	150	57	99	0.20	3.5	387	54
JUL 31...	48	18	59	2	7.4	130	49	110	0.20	6.1	377	54

DATE	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
FEB 07...	2	18	0.090	0.090	0.020	0.110	0.110	0.030	0.37	0.40	<0.010
APR 12...	7	47	0.070	0.070	0.020	0.090	0.090	0.110	0.29	0.40	0.020
JUL 31...	11	43	0.080	0.080	0.020	0.100	0.100	0.110	0.39	0.50	0.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
FEB 07...	<0.010	--	8.2	1	92	<0.5	<1.0	<5	<3	<10	<3
APR 12...	0.020	0.06	7.7	<1	95	<0.5	<1.0	<5	<3	<10	6
JUL 31...	0.020	0.06	8.0	2	88	<0.5	<1.0	<5	<3	<10	4

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB 07...	<10	6	51	<0.1	<10	<10	<1	<1.0	400	<6	<3
APR 12...	<10	8	10	0.2	<10	<10	<1	<1.0	440	<6	<3
JUL 31...	<10	7	42	<0.1	<10	<10	<1	<1.0	430	<6	4

08100000 LEON RIVER NEAR HAMILTON, TX

LOCATION.--Lat 31°47'19", long 98°07'16", Hamilton County, Hydrologic Unit 12070201, at downstream side of bridge on U.S. Highway 281, 2.2 mi upstream from Mesquite Creek, 3.6 mi downstream from Bear Creek, 5.9 mi north of Hamilton, and 172.9 mi upstream from mouth.

DRAINAGE AREA.--1,891 mi².

PERIOD OF RECORD.--January 1925 to September 1931, September 1960 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 955.38 ft above sea level. Jan. 7, 1925, to Sept. 30, 1931, nonrecording gage 1.4 mi downstream at datum 1.87 ft higher. Sept. 1 to Nov. 22, 1960, nonrecording gage at same site and at 5.00-foot higher datum. Nov. 22, 1960, to Sept. 30, 1972, recording gage at same site and at 5.00-foot higher datum.

REMARKS.--No estimated daily discharges. Records fair. Since 1960 this station has been regulated by Proctor Lake (station 08099400) 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 mi². Rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION 9 years (water years 1926-31, 1961-63) prior to regulation by Proctor Lake 148 ft³/s (107,500 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1926-31, 1961-63).--Maximum discharge, 18,600 ft³/s Sept. 9, 1962 (gage height, 26.93 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1858, 38.4 ft in May 1908 and December 1913; flood in September 1911 reached a stage of 37.0 ft, all at present site and datum, from information by local residents. The flood in October 1959 reached a stage of 34.1 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	40	503	368	115	109	251	544	1430	237	2410	609
2	15	39	507	325	183	101	234	532	1310	167	2960	596
3	35	39	507	305	254	98	215	537	865	133	2150	585
4	100	39	505	224	245	98	8780	556	801	128	2190	572
5	35	93	498	181	243	97	9080	653	753	670	1630	557
6	38	180	493	229	235	97	7080	4240	716	1400	1440	534
7	38	101	450	262	223	98	1900	1950	675	550	1360	517
8	40	68	292	246	139	98	1150	3230	594	274	1290	509
9	38	60	334	234	108	97	1180	2300	558	195	1290	508
10	34	82	918	230	105	87	1080	978	545	167	1370	524
11	30	84	662	229	103	83	983	930	3970	151	1400	575
12	29	68	436	521	103	82	914	937	1480	136	1380	521
13	24	60	360	399	101	353	857	890	590	126	1360	521
14	22	55	210	256	101	566	825	836	354	104	1330	804
15	27	115	194	231	103	380	790	784	307	82	1300	829
16	32	144	186	177	103	333	762	752	642	94	1270	591
17	34	102	162	135	101	583	747	724	653	92	1230	551
18	567	78	143	316	97	523	963	708	629	92	1210	867
19	707	84	133	446	93	499	864	768	610	84	1210	827
20	145	333	123	348	89	487	834	745	599	76	1190	646
21	70	1210	109	243	85	464	745	720	583	73	1160	757
22	50	391	100	196	82	431	684	695	571	63	1130	746
23	42	493	114	174	81	239	660	679	557	59	1100	652
24	50	539	170	160	79	207	647	707	545	61	1070	605
25	715	595	146	149	79	233	622	766	535	60	950	580
26	480	584	134	147	104	682	595	733	519	51	721	574
27	106	560	136	152	138	486	582	788	460	42	661	564
28	70	538	622	146	130	321	582	794	270	37	639	554
29	56	509	1090	132	---	309	569	751	245	28	625	541
30	48	501	580	124	---	298	555	2440	244	19	616	520
31	44	---	409	120	---	264	---	1150	---	61	603	---
TOTAL	3744	7784	11226	7405	3622	8803	45730	33817	22610	5512	40245	18336
MEAN	121	259	362	239	129	284	1524	1091	754	178	1298	611
MAX	715	1210	1090	521	254	682	9080	4240	3970	1400	2960	867
MIN	15	39	100	120	79	82	215	532	244	19	603	508
AC-FT	7430	15440	22270	14690	7180	17460	90710	67080	44850	10930	79830	36370

08100000 LEON RIVER NEAR HAMILTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995#, BY WATER YEAR (WY)

MEAN	82.6	86.1	145	143	192	184	272	520	398	265	159	126
MAX	719	823	2581	1839	2121	1036	1524	4284	1780	1395	1298	961
(WY)	1965	1992	1992	1992	1992	1992	1995	1990	1990	1992	1995	1986
MIN	.044	.041	.040	1.49	1.43	.58	.38	1.16	2.09	.26	3.76	2.41
(WY)	1968	1983	1979	1981	1981	1986	1984	1984	1971	1964	1981	1969

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995#	
ANNUAL TOTAL	140065		208834			
ANNUAL MEAN	384		572		214	
HIGHEST ANNUAL MEAN					1219	1992
LOWEST ANNUAL MEAN					3.92	1981
HIGHEST DAILY MEAN	6480	May 13	9080	Apr 5	21200	Dec 21 1991
LOWEST DAILY MEAN	14	Apr 18	15	Oct 2	.00	Oct 16 1963
ANNUAL SEVEN-DAY MINIMUM	19	Apr 14	28	Oct 10	.00	Oct 16 1963
INSTANTANEOUS PEAK FLOW			12900	Apr 4	32100	Dec 20 1991
INSTANTANEOUS PEAK STAGE			29.95	Apr 4	35.02	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	277800		414200		155300	
10 PERCENT EXCEEDS	1470		1170		583	
50 PERCENT EXCEEDS	63		436		16	
90 PERCENT EXCEEDS	29		61		.74	

Period of regulated streamflow.

08100500 LEON RIVER AT GATESVILLE, TX

LOCATION.--Lat 31°25'58", long 97°45'42", Coryell County, Hydrologic Unit 12070201, on right bank at upstream side of county road bridge, 800 ft downstream from U.S. Highway 84 bridge in Gatesville, 0.3 mi downstream from Dodds Creek, 5.2 mi upstream from Cottonwood Creek, and 99.0 mi upstream from mouth.

DRAINAGE AREA.--2,342 mi².

PERIOD OF RECORD.--October 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.

REMARKS.--Records good. Some upstream regulation by Proctor Lake (08099400) since July 6, 1963, 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 mi² in the northeast tributaries and Pecan Creek drainage basins. There are numerous diversions above station for irrigation, municipal supply, and oil field operation. The city of Hamilton, located about 70 mi upstream from this station, diverts flow from the river for municipal use and returned sewage effluent to the stream. The city of Gatesville obtains all of their municipal water supply from ground-water wells, but discharges sewage effluent back to the Leon River downstream from this station. Recording rain gage at station. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--13 years, (water year 1951-1963), 267 ft³/s (193,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1951-1963).--Maximum discharge, 51,200 ft³/s Oct. 4, 1959 (gage height, 34.14 ft), from rating curve extended above 41,000 ft³/s; no flow at times in 1951-52 and 1954-55.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1854, about 35 ft in May 1908, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	85	592	668	281	339	543	689	2320	e422	1170	624
2	29	78	592	607	275	302	446	669	1940	e418	3560	618
3	30	75	595	563	263	277	426	657	2020	e361	3520	616
4	31	77	597	548	370	268	2400	672	1250	e232	3540	606
5	30	113	595	500	390	263	7660	679	956	e228	2650	597
6	113	93	589	416	387	261	9360	1520	885	e551	2100	587
7	58	212	581	395	383	260	8110	4490	839	1990	1680	572
8	57	255	573	441	380	254	6810	6230	790	927	1460	556
9	53	174	503	431	353	245	2100	5640	720	544	1360	541
10	52	127	537	418	267	235	1800	5550	659	351	1320	542
11	49	109	969	411	240	230	2140	2310	2340	288	1410	546
12	49	138	886	441	233	218	1830	1370	4040	252	1480	579
13	44	148	649	630	230	662	1330	1380	3790	228	1470	567
14	40	124	559	932	230	795	1180	1250	1270	207	1440	543
15	41	156	463	517	229	807	1090	1110	689	188	1420	624
16	40	195	662	439	234	717	1020	999	531	162	1390	895
17	36	262	498	406	234	597	972	941	605	134	1340	659
18	43	249	411	396	228	672	1770	916	766	148	1300	591
19	292	198	347	612	223	708	2010	867	739	163	1260	725
20	897	165	312	730	217	671	1770	886	709	146	1250	787
21	432	209	288	634	202	656	1590	891	689	132	1230	716
22	212	1040	264	508	194	637	1170	857	669	122	1210	654
23	129	718	239	429	190	626	992	831	650	114	1180	808
24	123	502	223	392	185	522	882	817	632	103	1130	673
25	114	619	258	366	192	408	847	829	613	92	1090	622
26	249	659	306	349	386	495	816	882	601	91	1010	598
27	812	661	278	344	694	874	773	888	e582	89	805	586
28	329	646	554	350	405	704	736	907	e563	83	679	579
29	186	628	1260	336	---	580	730	2250	e511	76	661	569
30	132	608	1410	313	---	532	718	1370	e430	69	645	560
31	104	---	921	293	---	530	---	2880	---	78	632	---
TOTAL	4839	9323	17511	14815	8095	15345	64021	52227	33798	8989	46392	18740
MEAN	156	311	565	478	289	495	2134	1685	1127	290	1497	625
MAX	897	1040	1410	932	694	874	9360	6230	4040	1990	3560	895
MIN	29	75	223	293	185	218	426	657	430	69	632	541
AC-FT	9600	18490	34730	29390	16060	30440	127000	103600	67040	17830	92020	37170

08100500 LEON RIVER AT GATESVILLE, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

MEAN	112	130	246	212	335	318	422	754	556	319	181	154
MAX	714	907	4580	2517	3752	1939	2134	4899	2191	1472	1497	868
(WY)	1965	1992	1992	1992	1992	1992	1995	1990	1987	1992	1995	1986
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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	157746		294095			
ANNUAL MEAN	432		806		311	
HIGHEST ANNUAL MEAN					1758	1992
LOWEST ANNUAL MEAN					6.22	1978
HIGHEST DAILY MEAN	5830	May 15	9360	Apr 6	49100	Dec 21 1991
LOWEST DAILY MEAN	19	Apr 21	29	Oct 2	.00	Jul 21 1971
ANNUAL SEVEN-DAY MINIMUM	23	Apr 17	42	Oct 12	.00	Aug 13 1984
INSTANTANEOUS PEAK FLOW			9760	Apr 5	68000	Dec 21 1991
INSTANTANEOUS PEAK STAGE			26.42	Apr 5	35.00	Dec 21 1991
INSTANTANEOUS LOW FLOW			25	Oct 5	.00	Jul 21 1971
ANNUAL RUNOFF (AC-FT)	312900		583300		225600	
10 PERCENT EXCEEDS	1370		1460		781	
50 PERCENT EXCEEDS	106		579		38	
90 PERCENT EXCEEDS	40		119		1.8	

e Estimated

08100600 LEON RIVER AT NORTH FORT HOOD, TX

LOCATION.--Lat 31°23'01", long 97°42'06", Coryell County, on downstream side of State Highway 36, 9.8 mi downstream from City of Gatesville Sewage Disposal Plant.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.-- Chemical and biochemical analyses; December 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
DEC												
05...	1337	606	620	7.9	15.0	180	92	8.8	89	1.9	210	61
JAN												
17...	1135	544	598	8.2	13.0	23	41	9.9	97	1.3	250	46
FEB												
28...	0933	580	386	8.1	14.5	45	230	8.6	86	3.3	150	24
APR												
13...	1030	1620	660	8.1	17.5	16	190	9.3	99	1.6	270	53
JUN												
09...	0934	1010	718	7.8	27.0	53	120	6.5	84	1.7	270	70
AUG												
15...	1157	1670	525	7.9	28.0	320	160	6.3	82	1.3	160	19

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
DEC												
05...	56	17	45	1	6.6	150	47	75	0.30	5.6	344	168
JAN												
17...	72	16	28	0.8	4.0	200	37	40	0.30	7.5	327	71
FEB												
28...	44	8.9	17	0.6	3.8	120	24	25	0.30	7.2	207	408
APR												
13...	78	19	32	0.8	4.5	220	44	50	0.40	10	372	550
JUN												
09...	72	21	49	1	5.9	200	53	82	0.50	6.1	411	268
AUG												
15...	44	13	36	1	6.9	140	32	61	0.20	8.3	289	486

DATE	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
DEC											
05...	16	152	0.310	--	<0.010	0.310	0.310	0.020	1.2	1.2	0.040
JAN											
17...	14	57	0.480	0.480	0.010	0.490	0.490	0.050	0.65	0.70	0.050
FEB											
28...	46	362	0.520	0.520	0.030	0.550	0.550	0.140	0.36	0.50	0.050
APR											
13...	34	516	0.380	0.380	0.020	0.400	0.400	0.030	0.27	0.30	0.030
JUN											
09...	38	230	0.500	--	<0.010	0.500	0.500	0.030	0.47	0.50	0.060
AUG											
15...	40	446	0.150	--	<0.010	0.150	0.150	<0.015	--	0.40	0.070

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
DEC											
05...	0.040	0.12	--	2	110	<0.5	<1.0	<5	<3	<10	41
JAN											
17...	0.050	0.15	6.2	--	--	--	--	--	--	--	--
FEB											
28...	0.050	0.15	19	<1	62	<0.5	2.0	<5	<3	<10	21
APR											
13...	0.030	0.09	13	--	--	--	--	--	--	--	--
JUN											
09...	0.050	0.15	9.4	2	140	<0.5	<1.0	<5	<3	<10	<3
AUG											
15...	0.070	0.21	12	--	--	--	--	--	--	--	--

08100600 LEON RIVER AT NORTH FORT HOOD, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC											
05...	<10	<4	3	<0.1	<10	<10	<1	<1.0	410	<6	<3
JAN											
17...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	10	5	<1	<0.1	<10	<10	<1	<1.0	290	<6	<3
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	10	6	<1	<0.1	<10	<10	<1	<1.0	560	<6	<3
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--

08101000 COWHOUSE CREEK AT PIDCOKE, TX

LOCATION.--Lat 31°17'05", long 97°53'05", Coryell County, Hydrologic Unit 12070202, on left bank 125 ft downstream from bridge on Farm Road 116, 0.1 mi downstream from Bee House Creek, 0.6 mi northeast of Pidcoke, 4.9 mi upstream from Table Rock Creek, and 34.6 mi upstream from mouth.

DRAINAGE AREA.--455 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1712: 1955. WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 736.71 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. No known diversion above station. Several observations of water temperatures were made during the year. Rain gage at station. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 13	0330	5,600	13.81	Apr. 5	1130	4,860	13.45
Apr. 4	1800	19,100	26.65	May 8	1430	5,380	14.14

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

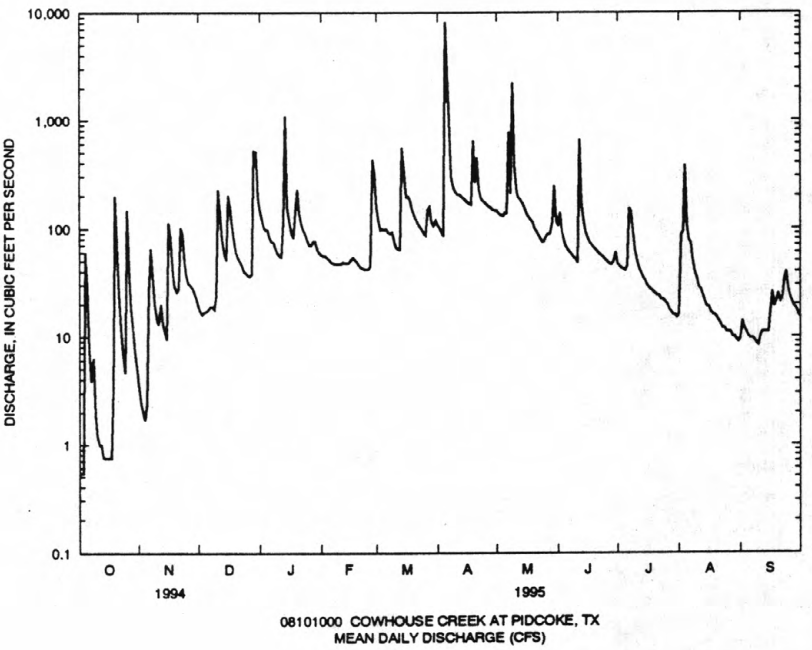
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	2.4	17	122	56	119	101	138	140	45	87	14
2	.54	2.0	16	104	56	98	93	133	95	43	94	12
3	.54	1.7	17	97	54	100	85	130	79	42	375	11
4	60	2.4	17	98	52	98	8080	139	69	41	106	10
5	29	26	18	83	49	99	2730	138	63	45	78	9.7
6	7.5	65	19	76	48	92	994	768	60	153	73	9.6
7	3.9	37	19	74	47	90	300	210	57	141	50	9.4
8	6.3	20	18	65	47	93	237	2210	54	85	40	8.7
9	1.9	14	24	59	47	76	218	379	52	59	34	8.4
10	1.2	13	226	56	47	67	206	212	48	49	29	10
11	1.0	20	139	55	49	65	206	193	653	42	27	11
12	1.0	13	80	115	48	64	197	182	173	39	24	11
13	.76	11	58	1090	48	555	191	169	111	35	21	11
14	.75	9.5	51	158	48	319	183	154	91	33	19	11
15	.75	112	201	111	51	196	177	138	81	30	19	17
16	.75	83	156	90	54	198	170	129	74	28	17	26
17	.75	38	106	82	52	183	166	121	70	27	16	19
18	3.2	29	77	142	49	151	639	114	67	26	16	21
19	198	26	61	227	46	135	267	102	64	25	15	25
20	72	28	54	140	44	123	450	94	61	24	14	21
21	25	102	49	113	43	112	231	87	58	24	13	22
22	12	90	45	98	42	104	192	80	56	22	12	34
23	7.2	49	40	88	42	98	180	75	54	22	12	40
24	4.6	36	39	77	42	91	172	76	51	21	11	28
25	147	31	37	70	45	87	164	85	49	20	11	23
26	44	30	36	70	431	149	160	89	47	18	11	21
27	18	28	38	76	317	157	154	89	46	17	10	19
28	12	25	516	76	156	115	149	114	49	16	9.9	18
29	7.3	22	505	65	---	106	147	246	60	16	9.4	16
30	5.3	19	193	60	---	118	145	117	47	15	9.0	15
31	3.6	---	145	57	---	107	---	105	---	16	9.6	---
TOTAL	676.38	985.0	3017	3894	2110	4165	17384	7016	2679	1219	1271.9	511.8
MEAN	21.8	32.8	97.3	126	75.4	134	579	226	89.3	39.3	41.0	17.1
MAX	198	112	516	1090	431	555	8080	2210	653	153	375	40
MIN	.54	1.7	16	55	42	64	85	75	46	15	9.0	8.4
AC-FT	1340	1950	5980	7720	4190	8260	34480	13920	5310	2420	2520	1020
CFSM	.05	.07	.21	.28	.17	.30	1.27	.50	.20	.09	.09	.04
IN.	.06	.08	.25	.32	.17	.34	1.42	.57	.22	.10	.10	.04

08101000 COWHOUSE CREEK AT PIDCOKE, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	84.9	36.7	84.9	74.9	117	104	132	233	113	36.5	17.8	34.3
MAX	1416	425	1894	767	1573	637	1033	2116	702	399	240	433
(WY)	1960	1966	1992	1961	1992	1970	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	17373.90		44929.08			
ANNUAL MEAN	47.6		123		89.0	
HIGHEST ANNUAL MEAN					482	1992
LOWEST ANNUAL MEAN					1.18	1978
HIGHEST DAILY MEAN	1920	May 13	8080	Apr 4	35200	Oct 4 1959
LOWEST DAILY MEAN	.22	Aug 3	.54	Oct 1	.00	May 21 1951
ANNUAL SEVEN-DAY MINIMUM	.28	Jul 30	.82	Oct 11	.00	Jul 6 1951
INSTANTANEOUS PEAK STAGE			26.65	Apr 4	44.30	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	34460		89120		64470	
ANNUAL RUNOFF (CFSM)	.10		.27		.20	
ANNUAL RUNOFF (INCHES)	1.42		3.67		2.66	
10 PERCENT EXCEEDS	92		192		141	
50 PERCENT EXCEEDS	10		54		6.2	
90 PERCENT EXCEEDS	.75		10		.00	



08101000 COWHOUSE CREEK AT PIDCOKE, TX
MEAN DAILY DISCHARGE (CFS)

08101000 COWHOUSE CREEK AT PIDCOKE, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: December 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
DEC												
05...	0940	18	520	7.9	15.0	18	3.7	9.0	91	0.8	240	0
JAN												
17...	1315	83	545	8.0	14.0	15	6.0	9.3	93	0.7	250	42
FEB												
28...	1148	153	425	8.3	15.0	24	62	8.8	89	1.0	190	24
APR												
13...	1221	193	624	8.2	18.5	11	5.7	9.7	105	0.2	300	37
JUN												
09...	1202	51	556	8.1	28.0	10	12	8.1	107	1.1	250	28
AUG												
15...	1445	18	466	8.2	31.0	21	3.5	8.2	112	2.1	200	22

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
DEC											
05...	68	18	20	0.6	3.4	260	34	22	0.30	6.3	330
JAN											
17...	73	17	17	0.5	3.2	210	35	21	0.30	10	306
FEB											
28...	56	12	15	0.5	2.8	170	27	17	0.30	9.4	242
APR											
13...	85	21	20	0.5	2.4	260	42	25	0.40	12	368
JUN											
09...	63	22	21	0.6	2.1	220	34	23	0.50	11	312
AUG											
15...	50	18	21	0.6	3.7	180	31	21	0.30	10	261

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)
DEC											
05...	9	12	0	0.110	--	<0.010	0.110	0.110	<0.015	--	0.30
JAN											
17...	13	6	7	0.750	0.750	0.010	0.760	0.760	0.020	0.38	0.40
FEB											
28...	120	22	98	0.510	0.510	0.020	0.530	0.530	0.020	0.28	0.30
APR											
13...	20	3	17	0.690	--	<0.010	0.690	0.690	<0.015	--	0.30
JUN											
09...	14	3	11	0.370	--	<0.010	0.370	0.370	0.020	0.28	0.30
AUG											
15...	<1	<1	--	--	--	<0.010	--	<0.050	0.020	0.48	0.50

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
DEC											
05...	<0.010	<0.010	--	2	69	<0.5	<1.0	<5	<3	<10	10
JAN											
17...	<0.010	<0.010	4.6	--	--	--	--	--	--	--	--
FEB											
28...	<0.010	<0.010	7.0	<1	59	<0.5	3.0	<5	<3	<10	16
APR											
13...	<0.010	<0.010	4.5	--	--	--	--	--	--	--	--
JUN											
09...	0.010	<0.010	2.9	2	71	<0.5	<1.0	<5	<3	<10	9
AUG											
15...	<0.010	<0.010	6.7	--	--	--	--	--	--	--	--

08101000 COWHOUSE CREEK AT PIDCOKE, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC											
05...	<10	6	2	<0.1	10	<10	<1	<1.0	630	<6	3
JAN											
17...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	20	5	<1	<0.1	<10	<10	<1	<1.0	500	<6	4
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	<10	10	2	<0.1	<10	<10	<1	<1.0	860	<6	<3
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--

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 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--March 1954 to current year. Prior to October 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.

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 December 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. Beginning January 1976, the capacity table is based on a sedimentation survey made in 1966. There are many small diversions upstream for irrigation, municipal supply, and oil field operations. For statement regarding regulation by National Resource Conservation Service floodwater-retarding structures, see station 08100500.
Satellite
telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	662.0	-
Design flood	656.9	-
Crest of spillway	631.0	1,086,000
Top of conservation pool	594.0	442,000
Service outlet (invert)	540.0	51,240
Lowest gated outlet (invert)	483.0	0

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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, 531,900 acre-ft Apr. 10 (elevation, 600.83 ft); minimum, 427,700 acre-ft Oct. 18 (elevation, 592.84 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

550.0	89,300	606.0	606,100	627.0	994,100
570.0	203,700	611.0	685,600	630.0	1,063,000
591.0	405,800	616.0	773,100	632.0	1,110,000
594.0	448,200	620.0	848,600	634.0	1,159,000
600.0	520,500	624.0	928,900	636.0	1,209,800

08102000 BELTON LAKE NEAR BELTON, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	437700	433500	447200	459500	444200	449700	443100	443700	459000	458000	444500	446000
2	433200	433100	447600	458000	443800	450200	442500	444200	461500	457600	450400	445300
3	433300	433000	448100	456300	443700	450400	443200	446000	463200	456400	457800	444700
4	432600	434500	448500	454400	443200	450700	456200	447500	465000	455800	461200	444000
5	432000	436000	448700	453100	443100	451200	481900	449000	464000	455800	464000	443400
6	432100	436000	449400	450700	443000	450600	497700	450700	461200	455800	464000	443100
7	431900	435900	449400	448500	443000	450600	510700	454300	458500	456300	462800	444800
8	432400	435800	449700	446200	442500	449400	520400	468000	455400	458900	460800	445200
9	431400	436300	449600	444200	442500	448100	529000	474900	453300	459400	458400	445500
10	430700	435900	449900	443400	442600	447300	531200	478600	451000	458700	455900	446100
11	429900	435900	450000	443400	443100	446600	525700	481300	454300	457100	453500	446500
12	429300	435800	451500	444200	442700	445600	521500	478300	456100	453800	452300	446800
13	428600	435900	452600	446700	442700	457800	516400	473200	459500	449600	450900	447200
14	428200	436300	454300	447500	443000	461400	510200	467900	462300	447900	449500	448200
15	428200	438000	455800	448500	442700	461800	504100	461900	460300	447600	448100	448700
16	428200	438300	457200	448500	443100	461200	498000	456100	457100	447600	447600	448900
17	427700	438600	458900	447900	443000	460000	492600	452300	453800	447300	447600	450000
18	429400	439000	458900	446000	443000	458400	487900	449500	450500	447200	447500	450400
19	429700	439400	457100	445100	443200	456200	485200	448400	448500	446800	447600	450700
20	429800	440200	454500	445700	443200	454900	483400	448200	447700	446700	447600	450900
21	431100	440200	451900	446500	443200	452800	479200	448100	447600	446500	447600	451500
22	431600	440900	449000	447300	443200	450100	475900	448000	447500	445800	447200	450600
23	431500	442500	448000	447100	443400	449200	470300	447700	447300	445200	446700	450200
24	432500	443400	447900	446700	443400	447700	464100	448200	447200	444800	446600	450500
25	433800	444000	447700	446100	444700	447100	458500	448100	446800	444500	446600	450500
26	433600	445000	447600	445600	445500	446200	453000	447900	446700	444100	447000	450100
27	433500	446300	448200	445200	447700	445600	448200	447700	448600	443700	447200	449700
28	434300	446800	454800	445100	449200	445600	445300	447600	450500	443400	447000	449500
29	434600	447000	458100	445000	---	445200	444600	448900	457500	443000	446500	449100
30	434300	447200	459800	444700	---	444700	443600	452900	458400	443200	446700	448900
31	434200	---	460500	444300	---	443800	---	455800	---	444000	446500	---
MAX	437700	447200	460500	459500	449200	461800	531200	481300	465000	459400	464000	451500
MIN	427700	433000	447200	443400	442500	443800	442500	443700	446700	443000	444500	443100
(+)	593.37	594.42	595.47	594.19	594.58	594.15	594.13	595.10	595.30	594.16	594.36	594.55
(@)	-3700	+13000	+13300	-16200	+4900	-5400	-200	+12200	+2600	-14400	+2500	+2400

CAL YR 1994 MAX 486900 MIN 427700 (@) +16500
WTR YR 1995 MAX 531200 MIN 427700 (@) +11000

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

08102000 BELTON LAKE NEAR BELTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1961 to September 1984, January 1994 to August 1995 (discontinued).

310640097283701 - BELTON LAKE SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
FEB										
15...	0805	443000	1.00	470	7.9	12.0	1.80	9.4	90	K13
15...	0807	--	10.0	470	7.9	12.0	--	9.4	90	--
15...	0809	--	20.0	469	7.9	12.0	--	9.4	90	--
15...	0811	--	30.0	470	7.9	12.0	--	9.4	90	--
15...	0813	--	40.0	469	7.9	12.0	--	9.6	91	--
15...	0815	--	50.0	470	7.9	12.0	--	9.5	91	--
15...	0817	--	60.0	470	7.8	12.0	--	9.6	91	--
15...	0819	--	70.0	470	7.8	12.0	--	9.4	90	--
15...	0821	--	80.0	470	7.8	12.0	--	9.4	90	--
15...	0823	--	90.0	470	7.8	12.0	--	9.4	90	--
15...	0825	--	100	470	7.8	12.0	--	9.4	90	--
15...	0827	--	107	470	7.8	12.0	--	9.4	90	--
APR										
19...	0943	485000	1.00	473	8.3	20.0	2.38	9.0	102	<1
19...	0945	--	10.0	479	8.2	19.5	--	8.8	98	--
19...	0947	--	20.0	478	8.3	18.5	--	9.1	100	--
19...	0949	--	30.0	476	8.2	18.0	--	8.8	96	--
19...	0951	--	40.0	478	8.1	18.0	--	8.1	88	--
19...	0953	--	50.0	478	8.1	17.5	--	7.9	85	--
19...	0955	--	60.0	480	8.0	16.5	--	7.4	78	--
19...	0957	--	70.0	486	7.8	15.5	--	6.6	68	--
19...	0959	--	80.0	509	7.6	14.5	--	5.1	51	--
19...	1001	--	90.0	510	7.6	13.5	--	4.7	46	--
19...	1003	--	100	510	7.6	13.5	--	4.5	44	--
19...	1005	--	111	508	7.5	13.5	--	4.5	44	--
AUG										
15...	0800	448000	1.00	442	7.9	28.0	3.05	4.7	61	K2
15...	0802	--	10.0	442	7.9	28.0	--	4.8	63	--
15...	0804	--	20.0	440	7.9	28.0	--	4.6	60	--
15...	0806	--	30.0	445	7.6	27.5	--	2.4	31	--
15...	0808	--	40.0	449	7.5	27.5	--	1.1	14	--
15...	0810	--	50.0	458	7.4	27.0	--	0	0	--
15...	0812	--	60.0	467	7.4	26.5	--	0	0	--
15...	0814	--	70.0	468	7.4	25.5	--	0	0	--
15...	0816	--	80.0	478	7.3	25.0	--	0	0	--
15...	0818	--	90.0	493	7.2	24.5	--	0	0	--
15...	0820	--	100	508	7.2	23.5	--	0	0	--
15...	0822	--	106	512	7.1	23.0	--	0	0	--

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310640097283701 - BELTON LAKE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)
FEB									
15...	K7	170	38	47	13	30	1	4.9	130
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	170	37	47	13	29	1	5.1	130
APR									
19...	K8	180	38	51	12	26	0.9	4.5	140
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	190	42	53	13	29	0.9	4.8	140
AUG									
15...	1	160	27	42	13	25	0.9	4.2	130
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	200	7	57	13	25	0.8	4.5	190

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310640097283701 - BELTON LAKE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
FEB									
15...	32	49	0.30	6.7	264	0.220	0.220	0.010	0.230
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	32	50	0.30	6.9	265	0.220	0.220	0.010	0.230
APR									
19...	31	43	0.30	6.5	259	0.260	0.260	0.020	0.280
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	0.270	0.270	0.020	0.290
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	0.320	--	<0.010	0.320
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	34	49	0.30	6.4	277	0.340	--	<0.010	0.340
AUG									
15...	29	36	0.30	6.7	235	--	--	<0.010	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	<0.010	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	<0.010	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	19	36	0.30	12	283	--	--	<0.010	--

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310640097283701 - BELTON LAKE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB									
15...	0.230	0.020	0.18	0.20	<0.010	<0.010	--	<3	<1
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	0.230	0.020	0.18	0.20	<0.010	<0.010	--	<3	8
APR									
19...	0.280	<0.015	--	0.30	<0.010	<0.010	--	<3	<1
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	0.290	0.020	0.18	0.20	<0.010	<0.010	--	<10	<10
19...	--	--	--	--	--	--	--	--	--
19...	0.320	<0.015	--	0.30	<0.010	<0.010	--	<10	<10
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	0.340	<0.015	--	0.20	<0.010	<0.010	--	<3	8
AUG									
15...	<0.050	0.020	0.28	0.30	<0.010	<0.010	--	<3	<1
15...	--	--	--	--	--	--	--	--	--
15...	<0.050	0.040	0.26	0.30	<0.010	<0.010	--	20	<10
15...	--	--	--	--	--	--	--	--	--
15...	<0.050	0.050	0.25	0.30	<0.010	<0.010	--	40	10
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	<0.050	1.50	0.20	1.7	0.130	0.140	0.43	150	280

310829097312201 - BELTON LAKE SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
FEB											
15...	1220	1.00	467	7.9	12.5	1.20	9.5	91	0.230	--	<0.010
15...	1222	10.0	467	7.9	12.0	--	9.3	89	--	--	--
15...	1224	20.0	467	7.9	12.0	--	9.3	89	--	--	--
15...	1226	30.0	468	7.9	12.0	--	9.3	89	--	--	--
15...	1228	40.0	467	7.9	12.0	--	9.4	89	--	--	--
15...	1230	50.0	467	7.9	12.0	--	9.4	89	--	--	--
15...	1232	60.0	468	7.9	11.5	--	9.2	87	--	--	--
15...	1234	70.0	469	7.9	11.5	--	9.0	85	0.260	--	<0.010
APR											
19...	1134	1.00	462	8.4	20.5	1.16	8.9	102	0.250	0.250	0.020
19...	1136	10.0	463	8.3	20.0	--	8.3	94	--	--	--
19...	1138	20.0	473	8.2	19.0	--	8.0	89	--	--	--
19...	1140	30.0	475	8.2	18.5	--	7.7	85	--	--	--
19...	1142	40.0	472	8.0	17.5	--	7.0	75	--	--	--
19...	1144	50.0	483	8.0	17.0	--	6.5	69	--	--	--
19...	1146	60.0	489	7.8	16.0	--	5.0	52	--	--	--
19...	1148	70.0	501	7.6	15.0	--	3.2	33	--	--	--
19...	1150	76.0	505	7.6	15.0	--	2.5	26	0.400	0.400	0.010
AUG											
15...	1025	1.00	429	8.3	30.0	1.22	6.6	89	--	--	<0.010
15...	1027	10.0	429	8.3	30.0	--	6.4	87	--	--	--
15...	1029	20.0	434	8.2	29.5	--	5.6	75	--	--	--
15...	1031	30.0	435	8.1	29.5	--	5.2	70	--	--	--
15...	1033	40.0	450	7.4	28.0	--	0	0	--	--	--
15...	1035	50.0	453	7.4	27.5	--	0	0	--	--	--
15...	1037	55.0	460	7.4	27.0	--	0	0	--	--	<0.010

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310829097312201 - BELTON LAKE SITE CC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
15...	0.230	0.230	0.020	0.18	0.20	0.030	<0.010	--	<10	<10
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	0.260	0.260	0.040	0.16	0.20	<0.010	0.010	0.03	<10	<10
APR										
19...	0.270	0.270	<0.015	--	0.20	<0.010	<0.010	--	<10	<10
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	0.410	0.410	0.030	0.27	0.30	<0.010	<0.010	--	20	70
AUG										
15...	--	<0.050	0.030	0.27	0.30	<0.010	<0.010	--	20	<10
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	<0.050	0.180	0.22	0.40	<0.010	<0.010	--	50	120

310923097332601 - BELTON LAKE SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB												
15...	1255	1.00	467	7.9	11.5	0.90	9.8	92	<1	<1	180	37
15...	1257	10.0	467	7.9	11.5	--	9.7	91	--	--	--	--
15...	1259	24.0	467	7.9	11.5	--	9.8	92	--	--	180	37
APR												
19...	1210	1.00	503	8.1	21.5	0.76	7.3	85	31	K18	230	30
19...	1212	10.0	463	8.2	20.5	--	7.3	83	--	--	--	--
19...	1214	20.0	464	8.2	19.5	--	7.7	86	--	--	--	--
19...	1216	27.0	467	8.2	19.0	--	7.4	82	--	--	170	15
AUG												
15...	1045	1.00	422	8.2	30.5	0.61	6.0	82	K3	--	150	27
15...	1047	10.0	422	8.2	30.5	--	5.9	81	--	--	--	--
15...	1049	24.0	423	8.2	30.0	--	5.9	80	--	--	150	24

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
FEB												
15...	50	13	29	0.9	4.8	140	32	46	0.30	6.4	267	0.250
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	50	13	28	0.9	4.6	140	32	48	0.30	6.5	268	0.250
APR												
19...	69	14	15	0.4	3.2	200	28	21	0.30	9.8	282	0.280
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	50	12	25	0.8	4.3	160	30	40	0.30	6.2	265	0.280
AUG												
15...	40	13	24	0.8	4.0	130	28	34	0.30	6.9	226	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	40	12	23	0.8	3.9	120	28	35	0.30	6.8	224	--

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310923097332601 - BELTON LAKE SITE DC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
15...	--	<0.010	0.250	0.250	0.020	0.18	0.20	<0.010	<0.010	<3	<1
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	<0.010	0.250	0.250	0.020	0.18	0.20	<0.010	<0.010	<3	<1
APR											
19...	0.280	0.010	0.290	0.290	0.040	0.26	0.30	<0.010	<0.010	<3	<1
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	0.280	0.020	0.300	0.300	0.030	0.27	0.30	<0.010	<0.010	<3	2
AUG											
15...	--	<0.010	--	<0.050	<0.015	--	0.20	<0.010	<0.010	<3	<1
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	<0.010	--	<0.050	0.020	0.28	0.30	0.010	<0.010	<3	1

310829097294301 - BELTON LAKE SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB							
15...	0920	1.00	472	7.8	12.0	9.1	87
15...	0922	10.0	473	7.8	12.0	9.0	86
15...	0924	20.0	473	7.8	12.0	9.0	86
15...	0926	30.0	473	7.8	12.0	9.0	86
15...	0928	40.0	473	7.8	12.0	9.0	86
15...	0930	50.0	472	7.8	12.0	9.2	88
15...	0932	60.0	471	7.8	12.0	9.1	87
15...	0934	70.0	470	7.8	12.0	9.2	88
15...	0936	80.0	470	7.8	12.0	9.2	88
15...	0938	90.0	470	7.8	12.0	9.1	87
15...	0940	97.0	470	7.8	12.0	9.2	88
APR							
19...	1245	1.00	492	8.4	20.0	8.5	96
19...	1247	10.0	491	8.4	20.0	8.5	96
19...	1249	20.0	498	8.3	19.5	7.8	88
19...	1251	30.0	485	8.2	18.5	7.8	86
19...	1253	40.0	478	8.2	18.0	7.8	85
19...	1255	50.0	481	8.1	17.5	7.4	80
19...	1257	60.0	491	8.0	16.5	6.7	71
19...	1259	70.0	527	7.8	16.0	5.1	53
19...	1301	80.0	532	7.6	14.5	3.0	30
19...	1303	90.0	530	7.6	14.0	2.8	28
19...	1305	100	529	7.6	14.0	2.7	27
AUG							
15...	0945	1.00	435	8.4	29.5	6.8	91
15...	0947	10.0	434	8.3	29.5	6.5	87
15...	0949	20.0	445	7.8	29.0	3.4	45
15...	0951	30.0	452	7.4	28.5	0.1	1
15...	0953	40.0	449	7.4	28.0	0	0
15...	0955	50.0	406	7.4	27.5	0	0
15...	0957	60.0	478	7.3	26.5	0	0
15...	0959	70.0	487	7.3	26.5	0	0
15...	1001	80.0	511	7.2	25.0	0	0
15...	1003	90.0	513	7.2	25.0	0	0
15...	1005	96.0	523	7.1	24.0	0	0

08102000 BELTON LAKE NEAR BELTON, TX--Continued

310938097300201 - BELTON LAKE SITE FC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
15...	0950	1.00	482	7.8	12.0	8.9	85
15...	0952	10.0	484	7.8	12.0	8.8	84
15...	0954	20.0	486	7.8	12.0	8.8	84
15...	0956	30.0	487	7.8	12.0	8.8	84
15...	0958	40.0	485	7.8	12.0	8.8	84
15...	1000	50.0	485	7.8	11.5	8.8	83
15...	1002	60.0	485	7.8	11.5	8.8	83
15...	1004	70.0	486	7.8	11.5	8.8	83
15...	1006	76.0	486	7.8	11.5	8.9	84
APR							
19...	1338	1.00	441	8.3	21.0	8.2	95
19...	1340	10.0	450	8.1	20.5	7.4	85
19...	1342	20.0	463	8.1	20.0	7.0	79
19...	1344	30.0	483	8.0	19.0	6.2	69
19...	1346	40.0	529	7.9	17.5	5.3	57
19...	1348	50.0	539	7.8	17.0	4.7	50
19...	1350	60.0	546	7.6	16.0	2.8	29
19...	1352	70.0	542	7.5	15.0	1.6	16
19...	1354	78.0	538	7.6	15.0	1.4	14
AUG							
15...	1115	1.00	444	8.4	30.5	7.0	96
15...	1117	10.0	444	8.4	30.0	6.7	91
15...	1119	20.0	444	8.2	30.0	5.9	80
15...	1121	30.0	434	7.5	29.0	0.7	9
15...	1123	40.0	448	7.4	28.0	0	0
15...	1125	50.0	385	7.4	27.0	0	0
15...	1127	60.0	476	7.2	26.0	0	0
15...	1129	73.0	521	7.1	25.0	0	0

311004097275601 - BELTON LAKE SITE GC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
FEB											
15...	1020	1.00	501	7.8	12.0	1.50	8.8	84	0.290	--	<0.010
15...	1022	10.0	501	7.8	12.0	--	8.8	84	--	--	--
15...	1024	20.0	501	7.8	12.0	--	8.8	84	--	--	--
15...	1026	30.0	503	7.8	12.0	--	8.8	84	--	--	--
15...	1028	40.0	503	7.8	12.0	--	8.8	84	--	--	--
15...	1030	50.0	505	7.8	11.5	--	8.7	82	--	--	--
15...	1032	62.0	506	7.8	12.0	--	8.7	83	0.310	--	<0.010
APR											
19...	1415	1.00	418	8.1	21.5	0.49	7.6	89	0.490	0.490	0.050
19...	1417	10.0	419	8.0	21.0	--	7.1	82	--	--	--
19...	1419	20.0	432	7.9	20.0	--	6.0	68	--	--	--
19...	1421	30.0	480	7.8	18.5	--	5.1	56	--	--	--
19...	1423	40.0	525	7.8	17.5	--	4.7	51	--	--	--
19...	1425	50.0	542	7.7	17.0	--	3.5	37	--	--	--
19...	1427	65.0	548	7.6	16.0	--	1.2	13	0.640	--	<0.010
AUG											
15...	1145	10.0	444	8.2	29.5	0.76	5.5	74	--	--	<0.010
15...	1147	10.0	444	8.2	29.5	--	5.5	74	--	--	--
15...	1149	20.0	444	8.0	29.5	--	4.3	58	--	--	--
15...	1151	30.0	444	7.6	29.5	--	2.4	32	--	--	--
15...	1153	40.0	418	7.4	28.5	--	0	0	--	--	--
15...	1155	50.0	368	7.3	27.0	--	0	0	--	--	--
15...	1157	59.0	411	7.2	26.5	--	0	0	--	--	<0.010

08102000 BELTON LAKE NEAR BELTON, TX--Continued

311004097275601 - BELTON LAKE SITE GC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB										
15...	0.290	0.290	0.070	0.23	0.30	<0.010	<0.010	--	<10	<10
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	0.310	0.310	0.070	0.23	0.30	<0.010	<0.010	--	<10	<10
APR										
19...	0.540	0.540	<0.015	--	0.40	<0.010	0.020	0.06	20	<10
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	0.640	0.640	<0.015	--	0.30	0.010	0.010	0.03	10	150
AUG										
15...	--	<0.050	0.020	0.28	0.30	0.030	<0.010	--	<10	10
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	<0.050	0.940	0.26	1.2	0.140	0.140	0.43	180	290

311042097300701 - BELTON LAKE SITE HC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB							
15...	1045	1.00	511	7.9	11.5	9.5	89
15...	1047	10.0	513	7.9	11.5	9.2	87
15...	1049	20.0	516	7.9	11.5	9.1	86
15...	1051	30.0	531	7.9	11.0	8.6	80
15...	1053	37.0	531	7.9	11.0	8.6	80
APR							
19...	1452	1.00	432	8.0	22.0	7.4	87
19...	1454	10.0	425	8.0	21.5	6.8	80
19...	1456	20.0	413	7.8	20.0	5.9	67
19...	1458	30.0	416	7.8	20.0	5.2	59
19...	1500	44.0	495	7.6	18.0	1.6	17
AUG							
15...	1215	1.00	445	8.3	30.0	6.4	87
15...	1217	10.0	446	8.2	30.0	6.0	81
15...	1219	20.0	448	8.1	29.5	5.5	74
15...	1221	34.0	449	8.0	29.5	4.3	58

311254097291301 - BELTON LAKE SITE IC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB												
15...	1135	1.00	541	8.0	11.5	0.90	10.0	94	<1	<1	220	33
15...	1137	10.0	559	7.9	11.0	--	9.3	87	--	--	--	--
15...	1139	20.0	585	7.8	10.5	--	8.5	78	--	--	--	--
15...	1141	27.0	586	7.8	11.0	--	8.6	80	--	--	250	38
APR												
19...	1513	1.00	503	8.0	22.0	0.37	7.3	86	K14	20	210	40
19...	1515	10.0	498	8.0	21.5	--	7.1	83	--	--	--	--
19...	1517	20.0	487	8.0	21.5	--	6.8	80	--	--	--	--
19...	1519	26.0	442	7.7	20.5	--	4.7	54	--	--	180	19
AUG												
15...	1230	1.00	450	8.5	30.5	0.46	7.1	97	K5	K10	150	31
15...	1232	10.0	449	8.4	30.0	--	6.6	89	--	--	--	--
15...	1234	20.0	495	7.6	29.5	--	1.7	23	--	--	--	--
15...	1236	25.0	500	7.5	29.5	--	1.4	19	--	--	170	38

08102000 BELTON LAKE NEAR BELTON, TX--Continued

311254097291301 - BELTON LAKE SITE IC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
FEB												
15...	62	15	30	0.9	4.4	180	37	47	0.30	7.0	315	0.360
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	71	17	31	0.9	3.8	210	41	49	0.30	7.1	347	0.360
APR												
19...	65	12	19	0.6	5.0	170	28	29	0.30	9.8	274	0.540
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	0.530
19...	56	10	17	0.5	4.9	160	23	24	0.20	10	245	0.450
AUG												
15...	39	13	28	1	5.5	120	29	47	0.30	8.4	242	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	46	13	33	1	6.2	130	30	55	0.30	9.4	271	--

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB												
15...	0.360	0.010	0.370	0.370	0.020	0.18	0.20	<0.010	<0.010	--	<3	<1
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	0.360	0.010	0.370	0.370	0.050	0.15	0.20	<0.010	<0.010	--	<3	4
APR												
19...	0.540	0.060	0.600	0.600	0.060	0.24	0.30	0.030	0.040	0.12	<3	1
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	0.530	0.060	0.590	0.590	0.070	0.33	0.40	0.030	0.040	0.12	<10	<10
19...	0.450	0.080	0.530	0.530	0.140	0.26	0.40	0.030	0.040	0.12	3	7
AUG												
15...	--	<0.010	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	<3	5
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	<0.010	--	<0.050	0.120	0.28	0.40	0.010	0.020	0.06	<3	77

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site AC (310640097283701)

Phytoplankton Analyses October 1994 to September 1995

Date	2-15-95
Time	0805
TOTAL CELLS/mL	5,056
NUMBER OF SPECIES	11
DEPTH COLLECTED (ft.)	3.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	149
Order Pennales	
Amphora ovalis	36
Asterionella formosa	71
Cocconeis placentula	36
Navicula sp.	36
CHLOROPHYTA	
Ankistrodesmus falcatus	89
Chlamydomonas sp.	30
Closterium dianae	89
Mougeotia sp.	1,487
CYANOPHYTA	
Aphanocapsa delicatissima	2,974
EUGLENOPHYTA	
Trachelomonas sp.	59

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site DC (310923097332601)

Phytoplankton Analyses October 1994 to September 1995

Date	2-15-95
Time	1255
TOTAL CELLS/mL	7,554
NUMBER OF SPECIES	11
DEPTH COLLECTED (ft.)	1.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	178
Order Pennales	
Cymbella lanceolata	30
Meridion circulare	30
Navicula sp.	30
CHLOROPHYTA	
Ankistrodesmus falcatus	208
Chlamydomonas sp.	59
Closterium dianae	30
Mougeotia sp.	2,409
CYANOPHYTA	
Anabaena spiroides	1,487
Aphanocapsa delicatissima	2,974
EUGLENOPHYTA	
Trachelomonas sp.	119

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site IC (311254097291301)

Phytoplankton Analyses October 1994 to September 1995

Date	2-15-95
Time	1135
TOTAL CELLS/mL	12,432
NUMBER OF SPECIES	12
DEPTH COLLECTED (ft)	1.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	30
Order Pennales	
Cocconeis placentula	59
CHLOROPHYTA	
Ankistrodesmus falcatus	89
Chlamydomonas sp.	119
Closterium dianae	30
Scenedesmus opoliensis	30
Selenastrum Westii	59
CYANOPHYTA	
Anabaena spiroides	3,480
Aphanizomenon flos-aquae	1,784
Aphanocapsa delicatissima	5,651
Chroococcus limneticus	595
EUGLENOPHYTA	
Trachelomonas sp.	506

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site AC (310640097283701)

Phytoplankton Analyses October 1994 to September 1995

Date	4-19-95
Time	943
TOTAL CELLS/mL	8,684
NUMBER OF SPECIES	15
DEPTH COLLECTED (ft.)	3.9

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	30
Order Pennales	
Navicula cuspidata	59
Navicula sp.	30
Nitzschia denticula	30
CHLOROPHYTA	
Ankistrodesmus falcatus	178
Asterococcus superbus	89
Chlamydomonas sp.	89
Gloecystis ampla	89
Lagerheimia subsalsa	30
CYANOPHYTA	
Anabaena sp.	595
Aphanizomenon flos-aquae	5,948
Aphanocapsa delicatissima	595
Chroococcus limneticus	476
EUGLENOPHYTA	
Trachelomonas sp.	238
CRYPTOPHYTA	
Cryptomonas erosa	208

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site DC (310923097332601)

Phytoplankton Analyses October 1994 to September 1995

Date	4-19-95
Time	1210
TOTAL CELLS/mL	10,379
NUMBER OF SPECIES	9
DEPTH COLLECTED (ft.)	1.25

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	1,546
Order Pennales	
Fragilaria crotonensis	89
CHLOROPHYTA	
Ankistrodesmus falcatus	149
Chlamydomonas sp.	149
CYANOPHYTA	
Aphanizomenon flos-aquae	7,435
Aphanocapsa delicatissima	297
Chroococcus limneticus	238
EUGLENOPHYTA	
Trachelomonas sp.	387
CRYPTOPHYTA	
Cryptomonas erosa	89

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site IC (311254097291301)

Phytoplankton Analyses October 1994 to September 1995

Date	4-19-95
Time	1513
TOTAL CELLS/mL	7,822
NUMBER OF SPECIES	15
DEPTH COLLECTED (ft.)	0.6

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	30
Stephanodiscus astraea	59
Order Pennales	
Cocconeis placentula	30
Synedra ulna	30
CHLOROPHYTA	
Ankistrodesmus falcatus	89
Chlamydomonas sp.	59
Cosmarium sp.	357
Scenedesmus opoliensis	119
Selenastrum Westii	59
CYANOPHYTA	
Aphanizomenon flos-aquae	595
Aphanocapsa delicatissima	3,569
Aphanocapsa elachista	595
Chroococcus limneticus	595
EUGLENOPHYTA	
Trachelomonas sp.	714
CRYPTOPHYTA	
Cryptomonas erosa	922

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site AC (310640097283701)

Phytoplankton Analyses October 1994 to September 1995

Date	8-15-95
Time	800
TOTAL CELLS/mL	12,163
NUMBER OF SPECIES	8
DEPTH COLLECTED (ft.)	5.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	671
Nitzschia denticula	192
CHLOROPHYTA	
Ankistrodesmus falcatus	297
Chlamydomonas sp.	59
Staurastrum sp.	119
CYANOPHYTA	
Aphanizomenon flos-aquae	1,784
Aphanocapsa delicatissima	8,922
Chroococcus limneticus	119

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site DC (310923097332601)

Phytoplankton Analyses October 1994 to September 1995

Date	8-15-95
Time	1045
TOTAL CELLS/mL	9,189
NUMBER OF SPECIES	5
DEPTH COLLECTED (ft.)	1.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Nitzschia denticula	535
CHLOROPHYTA	
Ankistrodesmus falcatus	862
Cosmarium sp.	30
Staurastrum sp.	30
CYANOPHYTA	
Aphanocapsa delicatissima	7,732

08102000 BELTON LAKE NEAR BELTON, TX--Continued

Belton Lake Site IC (311254097291301)

Phytoplankton Analyses October 1994 to September 1995

Date	8-15-95
Time	1230
TOTAL CELLS/mL	41,130
NUMBER OF SPECIES	11
DEPTH COLLECTED (ft.)	0.75

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	74
Nitzschia denticula	74
CHLOROPHYTA	
Ankistrodesmus falcatus	1,041
Cosmarium sp.	30
Pediastrum duplex	30
Staurastrum sp.	59
CYANOPHYTA	
Aphanocapsa delicatissima	14,275
Chroococcus limneticus	238
Merismopedia tenuissima	9,755
Oscillatoria sp.	15,465
EUGLENOPHYTA	
Trachelomonas sp.	89

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to current year.

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.

REMARKS.--No estimated daily discharges. Records good. The city of Temple diverts water from the pool at gage and returns sewage effluent to Little Elm Creek downstream from station. The Brazos River Authority returns sewage effluent to the Leon River downstream from station for their Temple-Belton plant. Flow regulated by Belton Lake (station 08102000) since Mar. 8, 1954. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--30 years (water years 1924-53) prior to regulation by Belton Lake, 659 ft³/s (477,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1924-53).--Maximum discharge, 56,500 ft³/s Apr. 22, 1945 (gage height, 24.41 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1913 reached a stage of 25 ft, and a flood in September 1921 reached a stage of 21 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588	189	356	1440	441	203	973	1030	856	569	131	732
2	593	189	350	1450	440	203	539	537	849	564	305	732
3	368	183	350	1440	440	201	168	125	855	560	963	728
4	229	194	350	1430	440	203	172	132	851	558	1940	725
5	228	183	350	1440	440	200	185	245	1600	554	2110	636
6	231	194	348	1440	440	500	1060	471	2230	556	2450	539
7	235	180	348	1440	440	714	2700	477	2220	554	2460	369
8	247	178	345	1450	440	709	3630	1220	2230	548	2480	245
9	238	186	350	1440	416	715	3930	3120	1830	546	2460	252
10	239	155	346	969	325	709	4730	4100	1560	804	2460	249
11	240	88	348	478	279	715	4960	4430	1570	1030	2290	245
12	236	86	345	473	279	710	4950	4660	1560	1670	1870	246
13	237	86	342	476	284	746	4940	4640	1560	2150	1870	250
14	238	77	343	474	283	723	4930	4630	1950	1080	1870	251
15	240	72	432	473	285	1320	4920	4620	2250	239	1870	370
16	236	54	267	473	261	1790	4910	4360	2250	242	1450	451
17	221	45	114	994	195	1790	4900	3580	2250	238	1060	447
18	199	37	353	1400	199	1790	4900	2660	2100	215	1060	447
19	190	41	1140	1090	193	1790	4900	1470	1740	197	1070	447
20	193	39	1530	489	195	1790	4900	897	1070	196	1070	543
21	186	36	1530	486	195	1790	4900	900	627	194	1070	606
22	178	34	1530	484	195	1790	4900	897	629	195	1070	606
23	184	32	787	484	199	1790	4900	895	627	191	1070	597
24	191	35	249	590	199	1340	4660	888	627	156	1070	596
25	185	39	249	749	201	971	4250	881	628	124	877	596
26	186	34	251	749	197	971	4250	875	588	123	729	596
27	185	35	253	617	200	966	3830	870	577	118	732	596
28	189	189	283	440	202	972	2510	868	601	117	732	586
29	185	352	254	440	---	970	1420	860	567	117	730	581
30	189	350	916	440	---	973	1280	867	566	121	732	569
31	188	---	1430	440	---	973	---	861	---	141	732	---
TOTAL	7472	3592	16439	26678	8303	31027	104197	57066	39418	14667	42783	14833
MEAN	241	120	530	861	297	1001	3473	1841	1314	473	1380	494
MAX	593	352	1530	1450	441	1790	4960	4660	2250	2150	2480	732
MIN	178	32	114	440	193	200	168	125	566	117	131	245
AC-FT	14820	7120	32610	52920	16470	61540	206700	113200	78190	29090	84860	29420

08102500 LEON RIVER NEAR BELTON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN	351	314	278	479	430	700	718	1076	1141	808	341	182
MAX	3918	3058	1924	5066	2902	6134	5170	4560	6002	6287	3084	1657
(WY)	1960	1960	1961	1992	1961	1992	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	178519.06		366475			
ANNUAL MEAN	489		1004		569	
HIGHEST ANNUAL MEAN					3067	1992
LOWEST ANNUAL MEAN					4.71	1955
HIGHEST DAILY MEAN	4900	May 18	4960	Apr 11	10200	Mar 6 1992
LOWEST DAILY MEAN	.96	Apr 27	32	Nov 23	.00	Oct 1 1953
ANNUAL SEVEN-DAY MINIMUM	19	Feb 10	35	Nov 21	.00	Oct 1 1953
INSTANTANEOUS PEAK FLOW			4980	Apr 10	56500	Apr 22 1945
INSTANTANEOUS PEAK STAGE			7.63	Apr 10	24.41	Apr 22 1945
ANNUAL RUNOFF (AC-FT)	354100		726900		412200	
10 PERCENT EXCEEDS	1720		2450		2060	
50 PERCENT EXCEEDS	117		564		38	
90 PERCENT EXCEEDS	28		183		4.3	

08102500 LEON RIVER NEAR BELTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: March 1961 to August 1964; January 1994 to current year.
Water temperature: March 1957 to October 1972; recorded continuously from March 1957 to September 1964.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB												
15...	0953	288	494	8.1	12.0	13	3.2	10.9	103	0.3	180	76
APR												
19...	1002	4900	491	7.8	17.0	9	5.2	--	--	0.6	190	42
AUG												
15...	0905	1870	477	7.6	25.5	16	2.9	7.9	98	1.2	180	21

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
FEB												
15...	50	13	27	0.9	5.2	100	32	51	0.30	6.7	249	7
APR												
19...	53	13	28	0.9	4.2	140	32	44	0.30	6.5	269	13
AUG												
15...	51	12	25	0.8	4.9	160	25	36	0.30	9.4	259	7

DATE	RESIDUE VOLA-TILE, SUS-PENDED (MG/L)	RESIDUE FIXED NON FILTER-ABLE (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)
FEB											
15...	12	0	0.300	--	<0.010	0.300	0.300	<0.015	--	0.30	0.020
APR											
19...	1	12	0.360	--	<0.010	0.360	0.360	0.020	0.28	0.30	<0.010
AUG											
15...	<1	--	0.060	0.060	0.020	0.080	0.080	0.370	0.23	0.60	0.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
FEB											
15...	<0.010	--	5.5	2	71	0.5	4.0	<5	4	<10	11
APR											
19...	<0.010	--	8.2	2	73	<0.5	<1.0	<5	<3	<10	6
AUG											
15...	0.030	0.09	4.3	3	79	<0.5	2.0	<5	<3	<10	53

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB											
15...	30	4	6	<0.1	30	<10	<1	<1.0	380	<6	14
APR											
19...	<10	7	2	<0.1	<10	<10	<1	<1.0	410	<6	<3
AUG											
15...	<10	5	120	<0.1	<10	<10	<1	<1.0	400	<6	<3

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 mi².

PERIOD OF RECORD.--October 1962 to current year.
Water-quality records.--Chemical analyses: March to June 1964, October 1980 to September 1982, October 1987 to August 1990. Biochemical analyses: October 1980 to September 1982, October 1987 to August 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.

REMARKS.--Records good. 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 mi² 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 sewage effluent to Sulphur Creek, upstream from this station. Several observations of water temperature were made during the year. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1871, occurred in September 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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 25	0130	6,250	9.25

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	24	26	106	58	175	156	126	548	78	270	12
2	36	24	27	86	56	149	147	119	317	66	109	11
3	33	24	35	80	54	145	140	118	200	57	320	11
4	34	26	33	80	51	142	1280	115	161	50	113	11
5	35	85	33	77	50	144	2230	104	137	55	56	11
6	34	47	33	75	49	138	1470	107	122	53	43	11
7	40	32	33	70	50	171	756	140	109	117	34	11
8	66	28	33	63	45	e167	502	1400	96	79	31	11
9	39	27	36	58	46	141	392	821	84	57	26	11
10	41	26	122	57	48	118	327	319	73	43	16	13
11	41	25	97	56	51	114	285	259	435	35	13	30
12	40	25	61	57	51	113	241	544	337	29	12	15
13	39	26	50	725	52	e1100	212	276	193	27	13	15
14	37	26	48	149	52	e794	196	208	146	25	13	19
15	40	50	52	104	56	e430	186	172	118	24	11	21
16	39	31	78	90	56	387	177	148	98	23	9.8	12
17	39	28	74	79	55	336	173	136	84	21	9.5	15
18	43	29	61	76	54	273	1140	130	75	26	10	124
19	42	30	54	136	52	245	476	114	70	21	8.9	224
20	35	31	51	125	48	232	356	104	63	22	8.5	76
21	33	29	49	103	47	213	274	97	60	20	8.4	41
22	33	27	47	86	50	205	217	91	57	14	8.9	33
23	34	27	45	79	57	193	189	83	51	13	8.9	27
24	36	30	43	73	54	177	177	92	47	13	9.2	27
25	767	30	42	70	73	174	168	111	43	11	17	24
26	62	31	41	74	464	173	155	111	39	11	13	20
27	36	30	44	76	837	169	147	112	39	11	9.5	20
28	31	29	218	74	241	162	139	125	36	10	12	19
29	27	29	480	65	---	162	141	1370	220	9.9	12	17
30	25	27	174	59	---	165	137	321	92	9.9	12	12
31	24	---	126	58	---	165	---	229	---	10	15	---
TOTAL	1896	933	2346	3166	2857	7472	12586	8202	4150	1040.8	1252.6	904
MEAN	61.2	31.1	75.7	102	102	241	420	265	138	33.6	40.4	30.1
MAX	767	85	480	725	837	1100	2230	1400	548	117	320	224
MIN	24	24	26	56	45	113	137	83	36	9.9	8.4	11
AC-FT	3760	1850	4650	6280	5670	14820	24960	16270	8230	2060	2480	1790

08103800 LAMPASAS RIVER NEAR KEMPNER, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	91.2	62.8	165	118	228	211	186	314	231	62.2	45.9	64.2
MAX	453	398	3193	1107	3526	1502	1106	2995	1716	365	378	417
(WY)	1986	1987	1992	1992	1992	1970	1977	1965	1987	1976	1966	1970
MIN	6.73	11.0	11.5	10.3	10.9	13.5	8.86	6.57	5.98	5.78	4.18	8.12
(WY)	1964	1990	1964	1984	1984	1984	1984	1984	1984	1964	1963	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	24513		46805.4			
ANNUAL MEAN	67.2		128		148	
HIGHEST ANNUAL MEAN					949	1992
LOWEST ANNUAL MEAN					10.7	1984
HIGHEST DAILY MEAN	2280	May 27	2230	Apr 5	42500	Dec 21 1991
LOWEST DAILY MEAN	11	Aug 8	8.4	Aug 21	1.4	Jul 17 1971
ANNUAL SEVEN-DAY MINIMUM	12	Aug 2	9.0	Aug 18	2.2	Jul 18 1963
INSTANTANEOUS PEAK STAGE				Oct 25	35.00	Dec 20 1991
ANNUAL RUNOFF (AC-FT)	48620		92840		107100	
10 PERCENT EXCEEDS	100		263		265	
50 PERCENT EXCEEDS	31		56		32	
90 PERCENT EXCEEDS	18		13		11	

e Estimated

08103900 SOUTH FORK ROCKY CREEK NEAR BRIGGS, TX
(Hydrologic benchmark station)

LOCATION.--Lat 30°54'41", long 98°02'12", Burnet County, Hydrologic Unit 12070203, at upstream side of bridge on Ranch Road 963, 6 mi above confluence with North Fork Rocky Creek, 7 mi west of Briggs, and 12.9 mi above mouth of Rocky Creek.

DRAINAGE AREA.--33.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1963 to current year.

REVISED RECORDS.--WDR TX-74-1: 1972-73(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder, concrete control, and crest-stage gages. Datum of gage is 955.8 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 25	0030	4,750	10.78

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.95	4.7	15	6.1	6.3	7.3	7.2	8.8	2.7	.00	.00
2	.00	.52	4.8	14	5.7	6.1	6.5	6.4	5.7	2.2	.32	.00
3	.00	.52	5.0	14	5.5	6.3	6.1	6.6	4.2	1.8	.38	.00
4	.00	.63	5.0	13	4.8	6.4	10	7.0	3.4	1.6	.32	.00
5	.00	25	4.8	13	4.9	6.4	57	6.2	2.9	1.3	7.9	.00
6	.00	4.3	4.6	14	4.7	6.1	29	6.1	2.6	1.9	2.2	.00
7	.00	2.6	4.5	12	5.1	21	21	5.6	2.5	2.5	.55	.00
8	.00	2.2	4.3	11	5.1	9.3	18	38	2.4	2.1	.28	.00
9	.00	2.0	4.3	11	5.1	7.7	16	11	2.2	1.5	.14	.00
10	.00	1.9	4.3	11	5.2	7.4	14	7.5	2.0	1.1	.01	.00
11	.00	1.8	3.9	11	5.1	7.4	13	6.2	47	.96	.00	.00
12	.00	1.7	3.5	11	5.1	7.4	13	6.1	7.9	.84	.00	.00
13	.00	1.7	3.5	13	5.1	22	12	6.2	4.8	.70	.00	.00
14	.00	1.7	3.7	10	5.2	13	12	5.3	3.8	.57	.00	.00
15	.00	16	5.3	9.3	5.8	11	11	4.5	3.2	.51	.00	.00
16	.00	11	5.9	9.5	5.0	11	11	4.1	2.9	.45	.00	.00
17	.00	8.2	4.7	9.4	4.4	10	11	4.3	2.7	.39	.00	.00
18	.00	7.2	4.1	9.3	4.2	10	23	8.1	2.7	.31	.00	.00
19	.00	8.4	3.9	8.9	4.2	10	13	4.7	2.5	.26	.00	.00
20	.00	8.3	3.8	8.6	3.5	9.7	32	3.6	2.2	.25	.00	.00
21	.00	7.0	3.1	8.6	3.4	9.3	16	3.1	2.0	.19	.00	.00
22	.00	6.4	3.0	8.5	3.5	9.4	13	2.9	1.9	.08	.00	.00
23	.00	6.2	2.9	7.7	3.5	8.8	13	2.8	1.7	.00	.00	.00
24	13	6.1	2.9	7.5	3.8	8.3	11	4.8	1.6	.00	.00	.00
25	285	6.5	2.8	7.7	17	8.5	10	4.4	1.7	.00	.00	.00
26	4.4	6.7	2.8	8.5	21	8.5	9.6	3.8	1.6	.00	.00	.00
27	1.7	6.5	3.3	8.9	9.6	7.9	9.3	3.1	1.7	.00	.00	.00
28	1.1	5.3	40	7.3	7.3	7.1	9.1	2.8	8.6	.00	.00	.00
29	.84	5.0	26	6.2	---	7.1	8.6	2.6	19	.00	.00	.00
30	.71	4.6	18	6.1	---	7.5	7.9	6.8	4.5	.00	.00	.00
31	.86	---	17	6.0	---	7.4	---	6.9	---	.00	.00	---
TOTAL	307.61	166.92	210.4	311.0	168.9	284.3	443.4	198.7	160.7	24.21	12.10	0.00
MEAN	9.92	5.56	6.79	10.0	6.03	9.17	14.8	6.41	5.36	.78	.39	.000
MAX	285	25	40	15	21	22	57	38	47	2.7	7.9	.00
MIN	.00	.52	2.8	6.0	3.4	6.1	6.1	2.6	1.6	.00	.00	.00
AC-FT	610	331	417	617	335	564	879	394	319	48	24	.00
CFSM	.30	.17	.20	.30	.18	.28	.44	.19	.16	.02	.01	.00
IN.	.34	.19	.24	.35	.19	.32	.50	.22	.18	.03	.01	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	4.11	3.91	7.93	9.70	17.4	17.0	13.1	23.4	19.5	4.71	2.05	3.62
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	1221.57		2288.24			
ANNUAL MEAN	3.35		6.27		10.6	
HIGHEST ANNUAL MEAN					49.2	1992
LOWEST ANNUAL MEAN					.036	1978
HIGHEST DAILY MEAN	285	Oct 25	285	Oct 25	1510	Jun 19 1976
LOWEST DAILY MEAN	.00	Jun 28	.00	Oct 1	.00	May 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 28	.00	Oct 1	.00	May 9 1963
INSTANTANEOUS PEAK FLOW			4750	Oct 25	31200	Jun 19 1976
INSTANTANEOUS PEAK STAGE			10.78	Oct 25	22.70	Jun 19 1976
ANNUAL RUNOFF (AC-FT)	2420		4540		7690	
ANNUAL RUNOFF (CFSM)	.10		.19		.32	
ANNUAL RUNOFF (INCHES)	1.36		2.56		4.33	
10 PERCENT EXCEEDS	6.0		13		24	
50 PERCENT EXCEEDS	1.3		4.2		.70	
90 PERCENT EXCEEDS	.00		.00		.00	

08103900 SOUTH FORK ROCKY CREEK NEAR BRIGGS, TX--Continued
(Hydrologic benchmark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1961 to January 1964. Chemical and biochemical analyses: January 1968 to current year. Pesticide analyses: July 1971 to July 1982. Sediment analyses: May to June 1963, February 1968 to current year. Radiochemical analyses: January 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
OCT												
26...	1043	3.5	281	7.5	15.0	5.1	8.3	84	8800	8000	140	28
JAN												
18...	0935	9.0	520	7.8	12.5	0.30	9.3	91	220	320	250	24
APR												
12...	0900	12	501	8.1	14.5	0.10	8.8	89	180	1200	260	39
JUN												
08...	0956	2.3	490	7.9	26.0	0.20	6.6	85	50	600	240	11

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT												
26...	34	12	5.5	0.2	2.6	0	131	107	110	16	8.5	0.30
JAN												
18...	61	23	8.3	0.2	1.0	0	275	226	230	18	13	0.40
APR												
12...	63	25	8.9	0.2	1.0	0	273	224	220	17	12	0.50
JUN												
08...	55	25	11	0.3	1.2	0	282	231	230	14	13	0.60

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)
OCT											
26...	7.7	169	153	0.190	<0.010	0.190	0.190	<0.015	0.49	0.30	0.30
JAN											
18...	7.8	276	270	0.060	<0.010	0.060	0.060	<0.015	--	--	<0.20
APR											
12...	7.7	277	272	--	<0.010	--	<0.050	<0.015	--	--	<0.20
JUN											
08...	10	268	271	--	<0.010	--	<0.050	<0.015	--	--	<0.20

DATE	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)
OCT											
26...	<0.010	0.020	<0.010	6	0.06	95	70	33	<3	52	4
JAN											
18...	0.010	<0.010	<0.010	7	0.17	76	<10	46	<3	<3	10
APR											
12...	<0.010	<0.010	<0.010	8	0.26	64	<10	49	<3	4	5
JUN											
08...	<0.010	<0.010	<0.010	7	0.04	70	<10	49	<3	5	9

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)
OCT											
26...	4	<10	2	<1	<1.0	1000	<6	--	--	--	--
JAN											
18...	2	10	<1	<1	<1.0	2100	<6	0.15	1.1	<1.0	0.030
APR											
12...	2	<10	<1	<1	<1.0	2300	<6	--	1.0	0.0	--
JUN											
08...	2	<10	1	<1	<1.0	2000	<6	--	--	--	--

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX

LOCATION.--Lat 31°01'20", long 97°31'57", Bell County, Hydrologic Unit 12070203, in intake structure at Stillhouse Hollow Dam on Lampasas River, 5 mi southwest of Belton, and 16.0 mi upstream from mouth.

DRAINAGE AREA.--1,313 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--September 1966 to current year. Prior to October 1970, published as Stillhouse Hollow Reservoir.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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

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 Sept. 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. The capacity curve is based on maps prepared by Brazos River Authority in 1937 and supplemented by contour maps prepared by the U.S. Army Corps of Engineers in 1958. There are many small diversions upstream for irrigation, municipal supply and for oil field operations. For statement regarding regulation by National Resource Conservation Service floodwater-retarding structures, see station 08103800. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	698.0	-
Design flood	693.2	1,013,300
Crest of spillway	666.0	630,400
Top of conservation pool	622.0	235,700
Lowest gated outlet (invert)	515.0	775

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 654,000 acre-ft Mar. 4, 1992 (elevation, 667.97 ft); minimum since conservation storage was reached on Apr. 12, 1969, 178,300 acre-ft Oct. 5, 1984 (elevation, 612.18 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 246,100 acre-ft Apr. 10 (elevation, 623.60 ft); minimum, 226,200 acre-ft Oct. 14 (elevation, 620.51 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

620.0	223,100	625.0	255,500	628.0	276,500
621.0	229,300	626.0	262,300	629.0	283,500
622.0	235,700	627.0	269,300	630.0	290,800
623.0	242,200	624.0	248,800		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226900	231600	234500	239500	236300	238700	236600	237000	239700	240000	237300	234000
2	226700	231500	234600	239500	236200	238800	236600	237200	240400	240000	237800	233800
3	226700	231700	234700	239300	236400	238900	236600	237400	240600	240100	237800	233700
4	226600	232200	234700	239200	236500	239100	236900	237400	240700	239900	238200	233500
5	226600	232500	234800	238900	236700	239100	241900	237400	240400	240000	238200	233300
6	226400	232700	234900	238500	236800	238900	245200	237400	239800	241200	238000	233100
7	226900	232800	234900	238000	236900	238700	245700	237500	239300	241200	237800	233800
8	227100	232900	235000	237600	237000	238400	245800	239000	239000	241300	237600	233600
9	226800	233100	235100	237100	237100	238000	245500	241100	238800	241100	237300	233400
10	226700	232900	234900	236700	237200	237700	245700	241500	238600	241000	237100	233300
11	226600	232900	234900	236300	237100	237600	245200	241400	239500	240800	236900	233200
12	226400	232800	235100	236300	236900	237800	244500	241500	240000	240700	236700	233000
13	226300	232900	235300	237200	236900	240900	243900	241200	240100	240400	236500	233000
14	226300	233000	235800	237800	236800	243000	243000	240400	240000	240200	236200	233100
15	226600	233500	236900	238200	236800	243400	242400	239500	239800	240000	236100	233100
16	226700	233600	237100	238500	236700	243000	241600	238300	239600	240400	235900	233000
17	226800	233800	237200	238400	236600	242600	241100	238000	239500	240200	235800	233100
18	226900	234000	237400	238000	236500	242100	240900	237500	239200	240000	235600	233100
19	227000	234100	237200	237400	236500	241400	241500	237200	238900	240100	235500	233400
20	227000	234400	236600	237200	236400	240700	241300	237100	238700	239900	235400	233700
21	227100	234400	235900	237100	236300	239900	240800	236900	238400	239600	235300	233800
22	227100	234400	235600	236900	236200	239100	240600	236700	238100	239300	235100	233500
23	227000	234400	235600	236700	236100	238300	239800	236500	237800	239000	234900	233300
24	227100	234400	235700	236500	236000	237800	238900	236600	237800	238700	234800	233300
25	231000	234400	235800	236400	236300	237600	238000	236500	237700	238400	234700	233100
26	231400	234500	235800	236300	236700	237300	237400	236400	237600	238100	234600	233100
27	231500	234600	236200	236400	238000	236700	237100	236300	238000	237800	234500	233000
28	231500	234600	237400	236600	238500	236500	236900	236300	238300	237500	234400	232900
29	231500	234600	238700	236700	---	236500	237100	237000	239500	237100	234300	232900
30	231500	234600	239300	236700	---	236500	237100	238700	240000	237100	234200	232800
31	231500	---	239600	236500	---	236600	---	239500	---	237300	234100	---
MAX	231500	234600	239600	239500	238500	243400	245800	241500	240700	241300	238200	234000
MIN	226300	231500	234500	236300	236000	236500	236600	236300	237600	237100	234100	232800
(+)	621.34	621.83	622.60	622.12	622.43	622.14	622.22	622.59	622.67	622.25	621.75	621.55
(@)	+4600	+3100	+5000	-3100	+2000	-1900	+500	+2400	+500	-2700	-3200	-1300

CAL YR 1994 MAX 252700 MIN 226300 (@) +3500
WTR YR 1995 MAX 245800 MIN 226300 (@) +5900

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

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: October 1969 to September 1982, January 1988 to current year.

REVISED RECORDS.--TX-93-2 Phytoplankton.

310129097315901 - STILLHOUSE HOLLOW LAKE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESER-VOIR STORAGE (AC-FT)	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
FEB										
06...	1020	237000	1.00	557	8.2	12.5	3.05	9.6	91	<1
06...	1022	--	10.0	558	8.2	12.5	--	9.5	90	--
06...	1024	--	20.0	557	8.2	12.5	--	9.6	91	--
06...	1026	--	30.0	557	8.2	12.5	--	9.6	91	--
06...	1028	--	40.0	557	8.2	12.5	--	9.5	90	--
06...	1030	--	50.0	557	8.2	12.5	--	9.5	90	--
06...	1032	--	60.0	558	8.2	12.0	--	9.5	89	--
06...	1034	--	70.0	557	8.2	12.0	--	9.3	87	--
06...	1036	--	80.0	557	8.1	12.0	--	8.9	83	--
06...	1038	--	90.0	558	8.0	12.0	--	8.8	83	--
06...	1040	--	100	558	8.0	12.0	--	8.7	82	--
06...	1042	--	115	560	7.6	12.0	--	7.9	74	--
APR										
11...	1155	245000	1.00	561	8.6	17.5	3.40	8.8	94	K2
11...	1157	--	10.0	561	8.6	17.5	--	8.8	94	--
11...	1159	--	20.0	561	8.6	17.5	--	8.9	95	--
11...	1201	--	30.0	561	8.6	17.5	--	8.8	94	--
11...	1203	--	40.0	561	8.6	17.0	--	8.8	93	--
11...	1205	--	50.0	564	8.4	14.5	--	9.0	90	--
11...	1207	--	60.0	564	8.1	13.0	--	7.5	72	--
11...	1209	--	70.0	563	8.1	12.5	--	7.4	71	--
11...	1211	--	80.0	564	8.0	12.0	--	6.6	62	--
11...	1213	--	90.0	564	8.0	12.0	--	6.3	59	--
11...	1215	--	100	564	8.0	12.0	--	6.3	59	--
11...	1217	--	115	564	8.0	12.0	--	6.2	59	--
AUG										
14...	0855	236000	1.00	515	8.4	29.5	3.35	6.9	93	K1
14...	0857	--	10.0	514	8.4	29.0	--	6.8	91	--
14...	0859	--	20.0	515	8.3	29.0	--	6.7	89	--
14...	0901	--	30.0	519	8.2	28.0	--	5.7	75	--
14...	0903	--	35.0	526	7.9	27.5	--	3.9	51	--
14...	0905	--	40.0	552	7.5	25.0	--	0	0	--
14...	0907	--	50.0	566	7.5	22.0	--	0	0	--
14...	0909	--	60.0	572	7.4	19.0	--	0	0	--
14...	0911	--	70.0	576	7.4	18.5	--	0	0	--
14...	0913	--	80.0	579	7.3	17.0	--	0	0	--
14...	0915	--	90.0	581	7.3	16.5	--	0	0	--
14...	0917	--	100	583	7.3	16.5	--	0	0	--
14...	0919	--	112	586	7.2	16.5	--	0	0	--

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310129097315901 - STILLHOUSE HOLLOW LAKE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)
FEB									
06...	<1	180	32	39	21	37	1	3.3	150
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	190	35	40	21	38	1	3.2	150
APR									
11...	K10	190	41	43	21	39	1	3.0	150
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	190	41	43	21	39	1	3.1	150
AUG									
14...	K2	170	33	34	21	35	1	2.6	140
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	200	24	46	21	38	1	2.7	180

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310129097315901 - STILLHOUSE HOLLOW LAKE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
FEB									
06...	20	73	0.30	8.2	293	0.060	0.060	0.020	0.080
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	21	72	0.30	8.2	295	0.070	0.070	0.020	0.090
APR									
11...	20	74	0.30	7.5	300	--	--	<0.010	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	<0.010	--
11...	--	--	--	--	--	0.110	--	<0.010	0.110
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	20	73	0.30	8.1	300	0.130	--	<0.010	0.130
AUG									
14...	22	62	0.30	7.1	267	--	--	<0.010	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	<0.010	--
14...	--	--	--	--	--	--	--	<0.010	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	17	69	0.30	9.9	311	--	--	<0.010	--

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310129097315901 - STILLHOUSE HOLLOW LAKE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB									
06...	0.080	0.040	--	<0.20	0.020	<0.010	--	<3	1
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	0.090	0.080	0.12	0.20	<0.010	<0.010	--	<3	20
APR									
11...	<0.050	<0.015	--	<0.20	<0.010	<0.010	--	<3	<1
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	<0.050	<0.015	--	<0.20	<0.010	<0.010	--	<10	<10
11...	0.110	<0.015	--	<0.20	<0.010	<0.010	--	<10	<10
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	0.130	<0.015	--	<0.20	<0.010	<0.010	--	<3	7
AUG									
14...	<0.050	0.030	--	<0.20	<0.010	<0.010	--	<3	<1
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	<0.050	<0.015	--	0.20	<0.010	<0.010	--	10	<10
14...	<0.050	0.030	--	<0.20	<0.010	<0.010	--	20	<10
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	<0.050	0.370	0.23	0.60	0.020	0.010	0.03	200	300

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310033097333001 - STILLHOUSE HOLLOW LAKE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
06...	1110	1.00	558	8.3	12.5	9.6	91
06...	1112	10.0	558	8.2	12.5	9.6	91
06...	1114	20.0	557	8.2	12.5	9.5	90
06...	1116	30.0	557	8.2	12.5	9.5	90
06...	1118	40.0	558	8.3	12.5	9.5	90
06...	1120	50.0	558	8.2	12.0	9.5	89
06...	1122	60.0	558	8.2	12.5	9.4	89
06...	1124	70.0	559	8.2	12.0	9.2	87
06...	1126	80.0	559	8.2	12.0	8.9	84
06...	1128	90.0	560	8.2	12.0	8.7	82
06...	1130	100	560	8.2	12.0	8.6	81
06...	1132	112	560	8.2	12.0	8.6	81
APR							
11...	1250	1.00	562	8.6	17.5	8.5	91
11...	1252	10.0	562	8.6	17.5	8.6	92
11...	1254	20.0	562	8.6	17.5	8.6	92
11...	1256	30.0	562	8.6	17.5	8.6	92
11...	1258	40.0	562	8.6	17.0	8.6	91
11...	1300	50.0	565	8.3	13.0	7.8	75
11...	1302	60.0	564	8.2	13.0	7.4	72
11...	1304	70.0	565	8.2	12.5	7.1	68
11...	1306	80.0	565	8.1	12.5	6.4	61
11...	1308	90.0	566	8.0	12.5	6.0	57
11...	1310	100	565	8.0	12.0	5.7	54
11...	1312	112	566	8.1	12.0	5.7	54
AUG							
14...	0950	1.00	513	8.4	29.0	6.8	91
14...	0952	10.0	513	8.4	29.0	6.8	91
14...	0954	20.0	513	8.4	29.0	6.7	89
14...	0956	30.0	519	8.2	28.0	5.4	71
14...	0958	40.0	547	7.5	25.5	0.1	1
14...	1000	50.0	567	7.4	21.0	0	0
14...	1002	60.0	573	7.4	19.5	0	0
14...	1004	70.0	575	7.4	18.5	0	0
14...	1006	80.0	580	7.3	17.5	0	0
14...	1008	90.0	584	7.3	17.0	0	0
14...	1010	100	583	7.3	16.5	0	0
14...	1012	105	585	7.3	16.5	0	0

310128097353601 - STILLHOUSE HOLLOW LAKE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L)
FEB												
06...	1158	1.00	560	8.2	12.5	2.13	9.6	91	<1	<1	190	40
06...	1200	10.0	561	8.2	12.5	--	9.6	91	--	--	--	--
06...	1202	20.0	561	8.2	12.5	--	9.6	91	--	--	--	--
06...	1204	30.0	561	8.2	12.5	--	9.5	90	--	--	--	--
06...	1206	40.0	561	8.2	12.0	--	9.5	89	--	--	--	--
06...	1208	50.0	567	8.1	12.0	--	9.2	87	--	--	--	--
06...	1210	60.0	567	8.1	12.0	--	9.0	85	--	--	--	--
06...	1212	70.0	563	8.1	12.0	--	8.9	84	--	--	--	--
06...	1214	80.0	562	8.1	12.0	--	9.1	86	--	--	--	--
06...	1216	88.0	562	8.2	12.0	--	9.2	87	--	--	190	34
APR												
11...	1350	1.00	570	8.6	18.0	2.50	8.7	94	K7	20	200	38
11...	1352	10.0	567	8.6	17.5	--	8.7	93	--	--	--	--
11...	1354	20.0	566	8.6	17.0	--	8.6	91	--	--	--	--
11...	1356	30.0	570	8.5	16.0	--	8.2	85	--	--	--	--
11...	1358	40.0	572	8.3	14.5	--	7.3	73	--	--	--	--
11...	1400	50.0	572	8.1	13.0	--	6.2	60	--	--	--	--
11...	1402	60.0	569	8.1	13.0	--	6.3	61	--	--	--	--
11...	1404	70.0	571	8.1	13.0	--	5.6	54	--	--	--	--
11...	1406	80.0	572	8.0	12.5	--	5.1	49	--	--	--	--
11...	1408	90.0	572	8.1	12.5	--	4.8	46	--	--	200	37
AUG												
14...	1040	1.00	508	8.4	30.5	1.83	6.9	94	K1	<1	170	34
14...	1042	10.0	508	8.4	30.5	--	6.8	93	--	--	--	--
14...	1044	20.0	514	8.2	29.5	--	5.7	77	--	--	--	--
14...	1046	30.0	522	7.9	28.0	--	3.4	45	--	--	--	--
14...	1048	40.0	531	7.6	27.0	--	0.5	6	--	--	--	--
14...	1050	50.0	564	7.4	22.5	--	0	0	--	--	--	--
14...	1052	60.0	578	7.3	19.5	--	0	0	--	--	--	--
14...	1054	70.0	584	7.3	18.5	--	0	0	--	--	--	--
14...	1056	80.0	590	7.2	17.5	--	0	0	--	--	--	--
14...	1058	85.0	589	7.2	18.0	--	0	0	--	--	200	23

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310128097353601 - STILLHOUSE HOLLOW LAKE CC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
FEB												
06...	40	21	39	1	3.2	150	25	71	0.30	8.1	296	0.080
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	40	21	38	1	3.3	150	21	73	0.30	8.3	297	0.070
APR												
11...	47	21	36	1	2.9	170	21	68	0.30	7.2	303	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	0.050
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	0.110
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	44	21	39	1	3.0	160	20	74	0.30	8.2	306	0.150
AUG												
14...	32	21	35	1	2.9	130	22	60	0.30	7.1	259	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	47	21	37	1	2.7	180	15	66	0.30	10	309	--

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB												
06...	0.080	0.020	0.100	0.100	0.040	0.16	0.20	<0.010	0.010	0.03	<3	1
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	0.070	0.020	0.090	0.090	0.050	--	<0.20	<0.010	<0.010	--	<3	5
APR												
11...	--	<0.010	--	<0.050	<0.015	--	<0.20	<0.010	<0.010	--	<3	<1
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	0.050	0.010	0.060	0.060	<0.015	--	<0.20	<0.010	<0.010	--	<10	<10
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	<0.010	0.110	0.110	<0.015	--	<0.20	<0.010	<0.010	--	<10	<10
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	<0.010	0.150	0.150	0.020	0.18	0.20	<0.010	<0.010	--	<3	26
AUG												
14...	--	<0.010	--	<0.050	<0.015	--	<0.20	<0.010	<0.010	--	<3	<1
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	<0.010	--	<0.050	0.040	0.16	0.20	<0.010	<0.010	--	10	<10
14...	--	<0.010	--	<0.050	0.020	0.18	0.20	<0.010	<0.010	--	20	70
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	<0.010	--	<0.050	0.660	0.24	0.90	<0.010	0.010	0.03	210	320

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310130097371701 - STILLHOUSE HOLLOW LAKE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
06...	1250	1.00	566	8.2	12.5	9.7	92
06...	1252	10.0	567	8.2	12.5	9.6	91
06...	1254	20.0	572	8.2	12.0	9.4	88
06...	1256	30.0	572	8.2	12.0	9.4	88
06...	1258	40.0	576	8.1	12.0	9.0	85
06...	1300	50.0	578	8.1	12.0	9.0	85
06...	1302	60.0	580	8.1	12.0	8.4	79
06...	1304	74.0	589	8.0	12.0	8.0	75
APR							
11...	1437	1.00	571	8.6	18.5	8.6	94
11...	1439	10.0	571	8.6	18.5	8.6	94
11...	1441	20.0	571	8.6	17.5	8.3	89
11...	1443	30.0	573	8.2	14.0	6.5	64
11...	1445	40.0	576	8.2	13.5	5.7	56
11...	1447	50.0	575	8.1	13.5	5.5	54
11...	1449	60.0	578	8.1	13.5	5.0	49
11...	1451	75.0	579	8.1	13.0	4.4	43
AUG							
14...	1125	1.00	510	8.4	30.5	6.9	94
14...	1127	10.0	510	8.4	30.5	6.8	93
14...	1129	20.0	517	8.2	30.0	5.6	76
14...	1131	30.0	526	7.8	28.5	2.3	30
14...	1133	40.0	551	7.4	25.0	0	0
14...	1135	50.0	576	7.2	21.5	0	0
14...	1137	60.0	586	7.2	19.5	0	0
14...	1139	71.0	590	7.2	18.5	0	0

310037097383201 - STILLHOUSE HOLLOW LAKE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)
FEB												
06...	1320	1.00	621	8.2	12.5	1.52	9.6	91	K1	<1	220	34
06...	1322	10.0	612	8.2	12.5	--	9.5	90	--	--	--	--
06...	1324	20.0	616	8.1	12.0	--	9.4	89	--	--	--	--
06...	1326	30.0	643	8.1	12.0	--	8.8	83	--	--	--	--
06...	1328	36.0	680	8.0	12.0	--	7.3	69	--	--	250	42
APR												
11...	1504	1.00	485	8.4	19.0	1.00	7.7	85	31	20	210	29
11...	1506	10.0	484	8.3	19.0	--	7.4	81	--	--	--	--
11...	1508	20.0	484	8.3	18.5	--	6.7	73	--	--	--	--
11...	1510	30.0	498	8.0	16.5	--	3.9	41	--	--	--	--
11...	1512	37.0	520	8.0	16.0	--	3.2	33	--	--	200	30
AUG												
14...	1155	1.00	526	8.4	30.5	0.91	6.8	93	<1	K2	170	0
14...	1157	10.0	529	8.3	30.5	--	6.5	89	--	--	--	--
14...	1159	20.0	559	8.0	30.0	--	4.4	60	--	--	--	--
14...	1201	34.0	595	7.4	28.0	--	0	0	--	--	190	50

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

310037097383201 - STILLHOUSE HOLLOW LAKE EC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
FEB												
06...	53	22	38	1	3.2	190	23	73	0.30	6.4	333	0.130
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	0.120
06...	--	--	--	--	--	--	--	--	--	--	--	0.120
06...	62	24	41	1	3.1	210	26	74	0.30	6.1	364	0.110
APR												
11...	57	17	19	0.6	2.6	180	19	32	0.30	9.2	267	0.150
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	0.140
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	52	18	26	0.8	2.8	170	20	46	0.30	8.7	279	0.090
AUG												
14...	35	21	35	1	2.7	170	20	64	0.30	8.0	290	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	43	21	39	1	2.9	140	15	67	0.30	11	286	--

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
06...	0.130	0.020	0.150	0.150	0.060	--	<0.20	<0.010	<0.010	<3	1
06...	--	--	--	--	--	--	--	--	--	--	--
06...	0.120	0.020	0.140	0.140	0.060	0.14	0.20	<0.010	<0.010	<10	10
06...	0.120	0.020	0.140	0.140	0.110	0.19	0.30	<0.010	<0.010	<10	20
06...	0.110	0.020	0.130	0.130	0.210	0.19	0.40	<0.010	<0.010	<3	26
APR											
11...	0.150	0.010	0.160	0.160	0.050	0.25	0.30	<0.010	<0.010	12	1
11...	--	--	--	--	--	--	--	--	--	--	--
11...	0.140	0.020	0.160	0.160	0.090	0.21	0.30	<0.010	<0.010	10	<10
11...	--	--	--	--	--	--	--	--	--	--	--
11...	0.090	0.020	0.110	0.110	0.360	0.14	0.50	<0.010	<0.010	6	41
AUG											
14...	--	<0.010	--	<0.050	<0.015	--	0.20	<0.010	<0.010	<3	2
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	<0.010	--	<0.050	0.040	0.16	0.20	<0.010	<0.010	<10	30
14...	--	<0.010	--	<0.050	0.350	0.15	0.50	<0.010	<0.010	200	270

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site AC (310129097315901)

Phytoplankton Analyses October 1994 to September 1995

Date	2-6-95
Time	1020
TOTAL CELLS/mL	4,877
NUMBER OF SPECIES	7
DEPTH COLLECTED (ft.)	5.0

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Stephanodiscus astraea	30
Order Pennales	
Fragilaria crotonensis	178
CHLOROPHYTA	
Chlamydomonas sp.	89
Cosmarium sp.	59
Oocystis sp.	30
Scenedesmus opoliensis	30
CYANOPHYTA	
Aphanocapsa delicatissima	4,461

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site EC (310037097383201)

Phytoplankton Analyses October 1994 to September 1995

Date	2-6-95
Time	1320
TOTAL CELLS/mL	4,699
NUMBER OF SPECIES	8
DEPTH COLLECTED (ft.)	2.5

Organisms	Cell/mL
BACILLARIOPHYTA	
Order Pennales	
Amphora ovalis	74
Navicula sp.	74
CHLOROPHYTA	
Cosmarium sp.	30
Oocystis sp.	30
CYANOPHYTA	
Aphanocapsa flos-aquae	595
Aphanocapsa delicatissima	3,271
CHRYSOPHYTA	
Dinobryon sociale	357
EUGLENOPHYTA	
Trachelomonas sp.	268

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site AC (310129097315901)

Phytoplankton Analyses October 1994 to September 1995

Date	4-11-95
Time	1155
TOTAL CELLS/mL	7,463
NUMBER OF SPECIES	8
DEPTH COLLECTED (ft.)	5.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	59
Order Pennales	
Diatoma hiemale	30
CHLOROPHYTA	
Chlamydomonas sp.	59
CYANOPHYTA	
Aphanizomenon flos-aquae	6,543
Aphanocapsa delicatissima	297
CHRYSOPHYTA	
Dinobryon sociale	297
EUGLENOPHYTA	
Trachelomnas sp.	59
CRYPTOPHYTA	
Cryptomonas erosa	119

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site EC (310037097383201)

Phytoplankton Analyses October 1994 to September 1995

Date	4-11-95
Time	1504
TOTAL CELLS/mL	12,727
NUMBER OF SPECIES	10
DEPTH COLLECTED (ft.)	1.65

Organisms	Cell/mL
BACILLARIOPHYTA	
Order Centrales	
Cyclotella ocellata	59
Order Pennales	
Synedra ulna	89
CHLOROPHYTA	
Ankistrodesmus falcatus	59
CYANOPHYTA	
Anabaena sp.	595
Aphanizomenon flos-aquae	10,409
Aphanocapsa delicatissima	892
Chroococcus limneticus	119
CHRYSOPHYTA	
Dinobryon sociale	59
EUGLENOPHYTA	
Trachelomnas sp.	268
CRYPTOPHYTA	
Cryptomonas erosa	178

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site AC (310129097315901)

Phytoplankton Analyses October 1994 to September 1995

Date	8-14-95
Time	855
TOTAL CELLS/mL	8,655
NUMBER OF SPECIES	9
DEPTH COLLECTED (ft.)	5.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Fragilaria crotonensis var. *crotonensis*	268
Synedra ulna var. *ulna*	268
CHLOROPHYTA	
Ankistrodesmus falcatus	3,063
Chlamydomonas sp.	89
Cosmarium sp.	30
CYANOPHYTA	
Aphanocapsa delicatissima	4,758
Chroococcus limneticus	119
EUGLENOPHYTA	
Trachelomonas sp.	30
PYRRHOPHYTA	
Peridinium pusillum	89

08104050 STILLHOUSE HOLLOW LAKE NEAR BELTON, TX--Continued

Stillhouse Hollow Lake Site EC (310037097383201)

Phytoplankton Analyses October 1994 to September 1995

Date	8-14-95
Time	1155
TOTAL CELLS/mL	12,760
NUMBER OF SPECIES	12
DEPTH COLLECTED (ft.)	1.5

Organisms	Cells/mL
BACILLARIOPHYTA	
Order Pennales	
Asterionella formosa var. *formosa*	43
Fragilaria crotonensis var. *crotonensis*	556
Synedra ulna var. *ulna*	86
CHLOROPHYTA	
Ankistrodesmus falcatus	5,770
Cosmarium sp.	30
Staurastrum sp.	59
CYANOPHYTA	
Aphanizomenon flos-aquae	1,190
Aphanocapsa delicatissima	4,164
Chroococcus limneticus	238
Merismopedia tenuissima	476
EUGLENOPHYTA	
Trachelomonas sp.	59
PYRRHOPHYTA	
Peridinium pusillum	89

08104500 LITTLE RIVER NEAR LITTLE RIVER

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 mi downstream from confluence of Leon and Lampasas Rivers, and 95.8 mi upstream from mouth.

DRAINAGE AREA.--5,228 mi².

PERIOD OF RECORD.--October 1923 to May 1929, August 1962 to current year.
Water-quality records.--Chemical analyses: October 1964 to September 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.

REMARKS.--No estimated daily discharges. Records fair. Many small diversions upstream for irrigation and municipal supply affect very low flows. Flow regulated by Belton Lake (station 08102000) on Leon River beginning Mar. 8, 1954, and by Stillhouse Hollow Lake (station 08104050) on the Lampasas River beginning Sept. 2, 1966. Sewage 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 mi². Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1924-28), 709 ft³/s (513,700 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS 1924-28).--Maximum discharge, 28,400 ft³/s Oct. 2, 1927, (gage height 43.3 ft); minimum, 8.9 ft³/s Aug. 12, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 46.8 ft in September 1921, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	227	421	2260	791	358	1500	1600	1690	661	260	935
2	624	226	414	2190	767	362	1240	1270	1280	634	386	935
3	530	232	415	2160	593	364	489	283	1230	620	727	945
4	273	234	414	2160	572	363	523	382	1210	604	2240	920
5	274	550	404	2190	568	361	1010	403	1610	610	2290	860
6	271	309	410	2360	570	568	1600	768	2700	669	2730	651
7	273	268	405	2360	561	1330	3030	784	2770	699	2810	559
8	584	253	403	2350	567	1290	3820	1680	2780	655	2910	345
9	319	256	404	2360	552	1290	3890	3320	2380	645	2910	302
10	287	283	417	2130	476	1260	4640	4520	1980	816	2900	290
11	281	174	404	1170	491	1090	5600	4810	2570	1240	2990	388
12	277	152	408	1150	507	1080	5880	5210	2130	1630	2390	285
13	275	151	404	843	501	3350	5870	5300	2040	2450	2360	277
14	270	150	409	729	503	1660	5830	5520	2200	1850	2320	279
15	297	293	1420	710	510	1770	5820	5520	2620	275	2320	490
16	322	241	1120	703	500	2840	5840	5460	2520	266	2110	495
17	312	162	378	1070	410	2780	5830	4710	2510	259	1480	508
18	357	152	387	2250	401	2760	5900	3570	2500	235	1450	586
19	526	153	1080	2180	393	2750	5840	2390	2090	210	1450	504
20	282	157	2160	1140	390	2750	5930	1340	1680	200	1440	565
21	253	146	2180	930	386	2730	5790	1310	902	192	1430	707
22	238	132	2110	907	383	2720	5820	1300	890	188	1400	725
23	229	127	1430	891	386	2720	5980	1280	879	182	1390	699
24	222	127	406	925	384	2460	5800	1270	751	174	1420	690
25	427	127	394	1250	390	1750	5360	1270	723	126	1270	681
26	270	130	386	1250	581	1740	5290	1240	692	123	886	682
27	237	124	385	1180	430	1730	4730	1230	628	122	887	680
28	232	149	1850	632	413	1720	3670	1220	974	122	902	675
29	228	418	1330	594	---	1520	2040	1240	1060	120	921	665
30	230	417	1090	589	---	1510	1970	1640	710	123	919	651
31	232	---	2250	782	---	1500	---	1350	---	223	994	---
TOTAL	10022	6520	26088	44395	13976	52476	126532	73190	50699	16923	52892	17974
MEAN	323	217	842	1432	499	1693	4218	2361	1690	546	1706	599
MAX	624	550	2250	2360	791	3350	5980	5520	2780	2450	2990	945
MIN	222	124	378	589	383	358	489	283	628	120	260	277
AC-FT	19880	12930	51750	88060	27720	104100	251000	145200	100600	33570	104900	35650

08104500 LITTLE RIVER NEAR LITTLE RIVER--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962- 1995#, BY WATER YEAR (WY)

MEAN	446	454	523	884	948	1190	1407	2048	1872	1202	535	407
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	102	59.4	150	165	85.2	12.1	41.3
(WY)	1979	1990	1964	1971	1984	1967	1984	1978	1967	1972	1963	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995#	
ANNUAL TOTAL	243478		491687			
ANNUAL MEAN	667		1347		993	
HIGHEST ANNUAL MEAN					5054	1992
LOWEST ANNUAL MEAN					179	1984
HIGHEST DAILY MEAN	4510	May 21	5980	Apr 23	62000	May 17 1965
LOWEST DAILY MEAN	73	Apr 28	120	Jul 29	8.2	Aug 6 1963
ANNUAL SEVEN-DAY MINIMUM	89	Sep 20	130	Jul 24	9.5	Aug 3 1963
INSTANTANEOUS PEAK FLOW			6090	Apr 20	79600	May 17 1965
INSTANTANEOUS PEAK STAGE			17.79	Mar 13	42.85	May 17 1965
INSTANTANEOUS LOW FLOW			114	Nov 28	8.2	Aug 6 1963
ANNUAL RUNOFF (AC-FT)	482900		975300		719100	
10 PERCENT EXCEEDS	2630		2900		3130	
50 PERCENT EXCEEDS	232		751		266	
90 PERCENT EXCEEDS	98		232		63	

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 mi².

PERIOD OF RECORD.--March 1980 to current year.
Water-quality records.--Chemical and biochemical analyses: October 1980 to August 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.

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. Satellite telemeter at station. Figures given herein represent total content. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	861.0	246,700
Design flood	856.2	221,200
Crest of spillway	834.0	130,800
Top of conservation pool	791.0	37,080
Lowest gated outlet (invert of 11-foot conduit)	720.0	0

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 136,900 acre-ft Mar. 4, 1992 (elevation, 835.86 ft); minimum, 466 acre-ft Mar. 4, 1980 (elevation, 724.46 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,810 acre-ft June 5 (elevation, 792.30 ft); minimum, 23,340 acre-ft Oct. 14 (elevation, 778.48 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

720.0	240	782.0	26,720	801.0	51,990
740.0	2,400	784.0	28,800	816.0	81,600
760.0	9,700	786.0	31,000	828.0	112,500
778.0	22,900	788.0	33,327	834.0	130,800
780.0	24,760	795.0	42,570	836.0	137,370

08104650 LAKE GEORGETOWN NEAR GEORGETOWN, TX--Continued

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23760	25620	25780	28880	31900	33170	36730	37160	38580	38290	36560	34480
2	23710	25590	25780	29040	31960	33210	36860	37130	38690	38300	36530	34390
3	23670	25580	25780	29200	32010	33230	36920	37160	38740	38290	36510	34320
4	23640	25600	25780	29330	32070	33280	37110	37200	38800	38250	36430	34230
5	23570	25660	25780	29460	32090	33310	37810	37230	38720	38230	36440	34140
6	23520	25670	25790	29590	32150	33370	37980	37250	38550	38230	36390	34050
7	23570	25660	25800	29710	32180	33390	37670	37290	38390	38180	36340	34090
8	23600	25660	25800	29820	32220	33390	37330	37770	38230	38130	36280	34000
9	23530	25660	25840	29940	32270	33430	37150	37870	38070	38050	36210	33930
10	23500	25630	25820	30060	32310	33470	37300	37900	37900	37970	36140	33850
11	23440	25610	25810	30150	32360	33490	37380	37770	37820	37900	36080	33770
12	23410	25580	25810	30300	32390	33630	37440	37660	37660	37810	36010	33700
13	23370	25570	25810	30460	32430	34910	37450	37560	37490	37710	35940	33640
14	23350	25560	25890	30560	32470	35110	37360	37450	37400	37650	35870	33580
15	23370	25620	26170	30640	32530	35260	37290	37360	37400	37570	35790	33520
16	23360	25660	26290	30750	32550	35420	37300	37290	37380	37490	35720	33460
17	23350	25690	26330	30850	32600	35580	37250	37280	37380	37480	35690	33370
18	23480	25710	26370	30950	32640	35690	37170	37300	37380	37410	35560	33310
19	23480	25740	26410	31020	32660	35800	37330	37300	37380	37340	35490	33280
20	23450	25760	26450	31100	32700	35910	37520	37300	37370	37270	35420	33270
21	23430	25770	26480	31170	32710	36020	37580	37300	37340	37190	35350	33420
22	23410	25770	26490	31240	32740	36120	37540	37290	37330	37120	35270	33340
23	23390	25770	26520	31320	32780	36230	37480	37170	37290	37020	35170	33270
24	23370	25770	26530	31360	32840	36300	37380	37210	37270	36940	35100	33210
25	25630	25780	26570	31440	32930	36390	37280	37210	37210	36860	35020	33150
26	25700	25800	26580	31550	33000	36470	37230	37210	37170	36770	34940	33090
27	25730	25800	26630	31640	33100	36520	37230	37230	37150	36690	34850	33030
28	25720	25800	27790	31710	33140	36590	37210	37230	37110	36610	34780	32980
29	25700	25790	28250	31750	---	36650	37200	37250	38180	36520	34680	32920
30	25680	25790	28490	31800	---	36700	37200	38210	38270	36510	34600	32870
31	25660	---	28720	31860	---	36700	---	38390	---	36500	34550	---
MAX	25730	25800	28720	31860	33140	36700	37980	38390	38800	38300	36560	34480
MIN	23350	25560	25780	28880	31900	33170	36730	37130	37110	36500	34550	32870
(+)	780.93	781.06	783.92	786.75	787.84	790.71	791.09	791.99	791.90	790.55	789.01	787.62
(@)	+1860	+130	+2930	-3140	+1280	+3560	+500	+1190	-120	-1770	-1950	-1680

CAL YR 1994 MAX 31820 MIN 23350 (@) -3130
WTR YR 1995 MAX 38800 MIN 23350 (@) +9070

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

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 mi².

PERIOD OF RECORD.--June 1968 to current year.
Water-quality records.--Chemical and biochemical analyses: October 1980 to August 1989.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.06 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Beginning Mar. 3, 1980, flow largely regulated by Lake Georgetown (station 08104650) located about 1.0 mi upstream from gage. Several measurements of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--11 years (water years 1969-79), 88.1 ft³/s (63,830 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1969-79).--Maximum discharge, 35,000 ft³/s Sept. 17, 1974 (gage height, 26.20 ft); no flow July 23-25, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 39.5 ft in September 1921. Flood in April 1957 reached a stage of 34.5 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.5	5.8	7.0	7.2	6.2	6.6	52	14	7.2	7.5	13
2	4.5	5.6	6.0	7.2	7.2	6.1	6.6	29	13	7.2	7.1	13
3	4.5	5.7	5.8	7.2	7.2	6.1	7.2	9.3	13	7.2	6.4	13
4	4.5	5.7	6.0	6.9	6.9	6.1	8.1	9.3	13	7.3	6.5	14
5	4.7	7.5	5.9	6.2	6.9	6.1	9.0	9.2	69	7.6	6.3	14
6	4.6	5.8	5.8	6.2	6.9	5.8	110	9.3	110	20	6.9	14
7	5.3	5.8	5.6	6.3	7.1	6.0	256	9.1	110	31	7.2	14
8	6.0	5.8	5.9	6.3	7.2	6.1	254	13	109	30	7.4	15
9	4.6	5.8	5.9	6.4	7.2	6.2	170	10	109	29	7.4	15
10	4.5	5.8	5.3	6.6	7.2	6.2	17	31	108	27	7.4	14
11	4.6	5.8	5.1	6.8	7.2	6.1	16	94	109	27	6.9	14
12	4.7	5.6	5.1	7.1	7.2	5.9	16	93	108	27	6.1	14
13	4.8	5.5	5.2	7.0	7.2	7.0	53	94	108	27	6.5	14
14	4.5	5.3	5.6	6.9	7.2	6.1	94	94	63	21	6.1	14
15	4.8	5.7	7.1	6.9	7.2	5.8	95	80	13	13	6.1	14
16	4.6	5.8	7.0	6.9	6.9	6.9	47	59	14	15	5.6	14
17	4.8	5.8	6.6	6.9	6.2	6.9	73	34	14	16	5.6	14
18	6.8	5.8	6.5	6.9	6.3	6.8	124	15	13	15	5.6	15
19	5.5	5.6	6.5	6.6	5.8	6.5	58	14	13	13	5.6	14
20	4.6	5.6	6.5	6.3	5.8	6.9	18	14	13	9.8	5.8	14
21	4.6	5.5	6.1	6.3	5.7	6.5	26	15	14	6.5	6.6	16
22	4.5	5.4	5.7	6.3	5.7	6.9	92	15	14	6.3	13	14
23	4.4	5.6	5.8	6.3	6.7	6.2	93	13	14	6.5	13	14
24	4.7	5.6	5.8	6.3	7.1	6.9	93	13	12	6.3	14	13
25	21	5.6	5.6	6.3	6.1	6.9	93	12	15	6.2	13	12
26	6.7	5.6	5.6	6.3	6.5	6.9	75	12	15	6.3	14	13
27	5.8	5.6	5.8	7.0	6.4	5.5	52	13	11	6.4	14	13
28	5.6	5.3	8.4	7.2	6.8	3.3	51	13	7.2	6.6	13	13
29	5.4	5.3	7.1	7.2	---	2.6	51	13	7.5	6.4	14	13
30	5.6	5.6	6.7	7.2	---	7.0	51	17	7.3	6.6	14	13
31	5.5	---	6.7	7.2	---	6.3	---	14	---	6.8	14	---
TOTAL	171.1	170.6	188.5	208.2	189.0	190.8	2115.5	922.2	1253.0	428.2	272.6	414
MEAN	5.52	5.69	6.08	6.72	6.75	6.15	70.5	29.7	41.8	13.8	8.79	13.8
MAX	21	7.5	8.4	7.2	7.2	7.0	256	94	110	31	14	16
MIN	4.4	5.3	5.1	6.2	5.7	2.6	6.6	9.1	7.2	6.2	5.6	12
AC-FT	339	338	374	413	375	378	4200	1830	2490	849	541	821

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

MEAN	17.0	22.3	45.4	49.8	81.8	117	73.5	87.3	164	177	9.27	36.5
MAX	153	171	254	343	485	832	574	323	938	962	27.2	461
(WY)	1982	1982	1986	1992	1986	1992	1992	1992	1992	1987	1992	1981
MIN	1.18	1.72	1.97	1.39	4.06	1.30	.44	.71	.60	4.47	1.30	1.37
(WY)	1983	1986	1984	1986	1990	1980	1980	1980	1980	1989	1982	1982

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1980 - 1995#	
ANNUAL TOTAL	4298.2		6523.7			
ANNUAL MEAN	11.8		17.9		73.3	
HIGHEST ANNUAL MEAN					358	1992
LOWEST ANNUAL MEAN					4.00	1980
HIGHEST DAILY MEAN	32	Mar 15	256	Apr 7	4500	Jun 9 1981
LOWEST DAILY MEAN	1.2	Jan 7	2.6	Mar 29	.00	Sep 27 1981
ANNUAL SEVEN-DAY MINIMUM	3.8	Jan 5	4.6	Oct 1	.01	Oct 2 1981
INSTANTANEOUS PEAK FLOW			277	Apr 6	3500	Sep 17 1974
INSTANTANEOUS PEAK STAGE			6.48	Apr 6	26.20	Sep 17 1974
ANNUAL RUNOFF (AC-FT)	8530		12940		53110	
10 PERCENT EXCEEDS	29		49		141	
50 PERCENT EXCEEDS	5.8		7.0		6.5	
90 PERCENT EXCEEDS	4.5		5.5		2.1	

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 mi².

PERIOD OF RECORD.--Water years 1948, 1962-67 (occasional low-flow measurements), December 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.

REMARKS.--No estimated daily discharges. Records good. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 25	0400	7,360	11.01

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	12	15	87	36	21	33	21	146	30	22	.93
2	.48	10	13	83	35	21	34	15	109	21	27	.88
3	.42	10	13	75	34	24	31	15	92	15	7.1	.90
4	.44	10	15	66	32	24	35	16	82	12	11	1.3
5	.44	50	15	59	33	26	78	16	76	9.7	23	1.2
6	.42	42	14	64	33	23	167	17	69	9.2	14	1.0
7	3.7	23	13	63	31	23	61	19	64	9.0	8.1	1.1
8	10	19	12	58	30	21	47	178	61	8.4	3.4	1.8
9	3.9	18	20	64	30	16	43	77	58	8.9	2.7	1.2
10	2.1	15	17	56	30	18	46	36	55	6.6	1.9	.99
11	1.1	14	15	54	30	19	41	28	85	4.1	1.5	1.0
12	1.2	16	14	57	31	21	36	28	78	4.1	1.3	.97
13	1.2	16	12	116	30	425	35	29	60	3.4	1.5	1.0
14	1.6	15	13	64	28	100	34	28	56	3.5	1.8	.96
15	2.9	18	150	57	29	64	33	25	50	4.0	1.3	.93
16	2.2	29	89	55	28	60	34	20	41	4.3	1.2	.90
17	2.9	27	51	55	27	54	34	18	36	3.9	1.3	.91
18	5.8	21	38	51	27	49	36	30	37	2.5	1.2	.96
19	12	21	35	48	28	48	34	16	33	4.8	1.2	1.0
20	5.6	23	32	47	27	46	59	15	26	13	1.4	1.0
21	5.8	20	30	46	24	42	42	15	24	6.2	1.5	3.0
22	4.6	18	30	47	23	42	37	13	24	6.4	1.2	17
23	5.6	17	29	44	24	42	42	9.0	20	8.0	1.0	2.9
24	4.5	17	29	41	26	41	33	12	17	3.5	1.0	2.2
25	1570	20	29	41	30	42	28	13	17	2.1	.97	2.0
26	89	19	28	43	38	42	27	18	11	2.6	.91	1.4
27	34	18	27	44	35	39	25	31	9.6	1.8	.84	1.2
28	23	16	772	41	28	36	24	28	11	1.5	.94	.97
29	18	14	298	40	---	35	26	63	251	1.4	.96	1.4
30	16	14	128	38	---	36	25	1520	64	3.0	.88	1.5
31	14	---	107	36	---	35	---	303	---	9.1	.93	---
TOTAL	1843.45	582	2103	1740	837	1535	1260	2672.0	1762.6	223.0	145.03	54.50
MEAN	59.5	19.4	67.8	56.1	29.9	49.5	42.0	86.2	58.8	7.19	4.68	1.82
MAX	1570	50	772	116	38	425	167	1520	251	30	27	17
MIN	.42	10	12	36	23	16	24	9.0	9.6	1.4	.84	.88
AC-FT	3660	1150	4170	3450	1660	3040	2500	5300	3500	442	288	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	36.4	21.2	45.8	51.9	78.7	62.4	65.3	99.0	120	25.1	14.4	20.2
MAX	221	124	489	441	711	367	337	247	851	85.8	131	306
(WY)	1974	1975	1992	1968	1992	1992	1977	1975	1981	1976	1974	1981
MIN	.069	.16	.22	.34	.81	1.61	1.04	.24	.37	.13	.036	.022
(WY)	1979	1989	1989	1990	1990	1976	1984	1984	1971	1978	1980	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	6729.92		14757.58			
ANNUAL MEAN	18.4		40.4		50.5	
HIGHEST ANNUAL MEAN					203	1992
LOWEST ANNUAL MEAN					2.15	1984
HIGHEST DAILY MEAN	1570	Oct 25	1570	Oct 25	7830	Sep 3 1981
LOWEST DAILY MEAN	.12	Jul 18	.42	Oct 3	.00	Jul 3 1971
ANNUAL SEVEN-DAY MINIMUM	.12	Jul 24	.91	Aug 27	.00	Jul 3 1971
INSTANTANEOUS PEAK STAGE			11.01	Oct 25	24.60	Sep 3 1981
ANNUAL RUNOFF (AC-FT)	13350		29270		36620	
10 PERCENT EXCEEDS	20		63		96	
50 PERCENT EXCEEDS	3.2		21		13	
90 PERCENT EXCEEDS	.22		1.2		.34	

08105100 BERRY CREEK NEAR GEORGETOWN, TX

LOCATION.--Lat 30°41'28", long 97°39'21", Williamson County, Hydrologic Unit 12070205, on right bank at upstream side of upstream service road on Interstate Highway 35, 2.9 mi north of the county courthouse at Georgetown, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--83.1 mi².

PERIOD OF RECORD.--July 1967 to current year.
Water-quality records.--Sediment records: October 1976 to September 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.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1921 occurred September 1921, 25 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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 25	0800	1040	5.85	Mar. 13	0930	2,510	8.90
Dec. 28	1500	1380	6.69				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.94	2.5	35	16	8.4	12	14	57	6.2	16	.94
2	.00	1.1	2.5	28	16	8.4	11	13	25	6.2	16	.89
3	.00	1.1	2.5	28	16	8.6	12	13	17	6.2	4.2	.74
4	.00	1.1	2.5	27	14	8.9	12	12	16	6.1	3.9	.70
5	.00	3.8	2.5	26	14	9.2	48	11	15	6.0	3.9	.49
6	.00	1.3	2.5	27	13	9.2	124	10	14	5.8	3.8	.37
7	.00	1.3	2.5	27	12	9.2	29	9.6	12	5.8	3.5	.33
8	.14	1.3	2.5	24	11	8.8	20	112	12	5.8	3.5	.56
9	.00	1.3	3.7	23	11	8.8	16	50	11	5.6	3.4	.56
10	.00	1.4	3.3	23	11	8.5	16	20	10	5.4	3.2	.56
11	.00	1.4	3.2	23	10	8.4	14	17	13	5.3	3.1	.56
12	.00	1.4	3.2	22	9.3	8.4	14	16	10	5.0	2.9	.56
13	.00	1.4	3.2	25	9.2	625	13	16	10	4.9	3.0	.52
14	.00	1.4	3.6	25	9.1	72	13	15	10	5.0	2.6	.40
15	.03	1.6	161	21	8.8	31	13	14	9.6	4.9	2.5	.39
16	.08	1.6	88	21	8.6	28	12	14	9.0	4.6	2.4	.27
17	.12	1.6	25	21	8.4	26	11	13	8.6	4.5	2.1	.27
18	.50	1.6	16	20	8.2	22	12	13	8.3	4.5	1.8	.16
19	.12	1.6	14	20	8.0	19	10	12	8.1	4.3	1.6	.13
20	.08	1.6	14	20	8.1	18	17	12	7.7	4.1	1.6	.08
21	.08	1.6	14	20	8.2	17	24	11	7.6	4.1	1.6	.33
22	.08	1.6	14	20	7.8	15	16	10	7.4	3.9	1.3	.35
23	.08	1.6	14	19	8.1	14	48	9.9	7.4	3.7	1.2	.27
24	.08	1.6	14	19	8.1	14	22	9.8	7.4	3.5	1.2	.27
25	186	1.6	14	19	8.1	14	15	9.6	7.4	3.4	1.2	.27
26	10	1.9	14	18	8.1	14	14	9.5	7.2	3.3	1.2	.26
27	1.4	2.2	14	18	8.3	14	13	9.1	7.0	3.1	1.2	.16
28	1.2	2.2	545	18	8.1	14	14	8.6	7.0	3.1	1.1	.16
29	1.2	2.5	161	18	---	14	15	8.3	7.0	3.0	.94	.16
30	1.1	2.5	54	18	---	13	14	184	6.8	2.9	.78	.13
31	1.1	---	42	17	---	12	---	41	---	3.1	.94	---
TOTAL	203.39	49.14	1258.2	690	286.5	1100.8	624	717.4	355.5	143.3	97.66	11.84
MEAN	6.56	1.64	40.6	22.3	10.2	35.5	20.8	23.1	11.8	4.62	3.15	.39
MAX	186	3.8	545	35	16	625	124	184	57	6.2	16	.94
MIN	.00	.94	2.5	17	7.8	8.4	10	8.3	6.8	2.9	.78	.08
AC-FT	403	97	2500	1370	568	2180	1240	1420	705	284	194	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	15.9	8.88	23.7	28.4	49.7	34.0	33.6	47.2	53.5	13.5	5.05	7.98
MAX	158	74.2	238	264	409	172	168	148	321	45.9	18.3	82.4
(WY)	1975	1975	1992	1968	1992	1992	1977	1979	1981	1973	1975	1974
MIN	.000	.000	.000	.000	.019	.010	.005	.003	.025	.000	.000	.000
(WY)	1979	1989	1989	1990	1984	1984	1984	1971	1978	1978	1978	1978

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	1844.55		5537.73			
ANNUAL MEAN	5.05		15.2		26.6	
HIGHEST ANNUAL MEAN					106	1992
LOWEST ANNUAL MEAN					.047	1984
HIGHEST DAILY MEAN	545	Dec 28	625	Mar 13	4670	Oct 31 1974
LOWEST DAILY MEAN	.00	Jul 10	.00	Oct 1	.00	May 4 1971
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 10	.00	Oct 1	.00	May 4 1971
INSTANTANEOUS PEAK STAGE			8.90	Mar 13	19.33	Oct 31 1974
ANNUAL RUNOFF (AC-FT)	3660		10980		19280	
10 PERCENT EXCEEDS	2.8		23		48	
50 PERCENT EXCEEDS	.57		8.1		4.8	
90 PERCENT EXCEEDS	.00		.31		.00	

08105600 GRANGER LAKE NEAR GRANGER, TX

LOCATION.--30°41'34", long 97°19'34", Williamson County, Hydrologic Unit 12070205, at Granger Dam on San Gabriel River, 1.5 mi south of Friendship, 2.2 mi upstream from Willis Creek, 7.1 mi east of Granger, and at mile 31.9.

DRAINAGE AREA.--730 mi².

PERIOD OF RECORD.--January 1980 to current year.
Water-quality records.--Chemical and biochemical analyses: October 1980 to August 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.

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. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	555.0	674,500
Designed flood	550.3	580,000
Crest of spillway	528.0	244,200
Top of conservation pool	504.0	65,510
Lowest gated outlet (invert of 18-foot conduit)	457.0	0

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 268,200 acre-ft Mar. 5, 1992 (elevation, 530.11 ft); minimum, 615 acre-ft Jan. 21, 1980 (elevation, 462.60 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 83,860 acre-ft June 3 (elevation, 507.85 ft); minimum, 60,440 acre-ft Oct. 6 (elevation, 502.80 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

460.0	390	511.0	101,600	526.0	222,800
480.0	9,130	515.0	127,500	528.0	244,200
500.0	49,960	518.0	149,900	529.0	255,400
502.0	57,280	521.0	174,900	530.0	266,900
503.0	61,260	524.0	202,700	531.0	278,800
507.0	79,510				

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60730	70280	66040	71890	66170	66480	65990	66830	82670	67410	65990	65460
2	60690	69970	66080	70880	66170	66300	66040	66700	83550	67500	67720	65460
3	60610	69830	66170	69970	65990	66040	66080	66520	83290	67590	67720	65460
4	60610	69790	66210	68980	65950	65900	66340	66390	82100	67500	67410	65460
5	60570	70240	66300	68350	65810	65680	66830	66210	80210	67500	67050	65370
6	60450	69970	66390	68170	65770	65770	67410	65990	78060	67590	66790	65330
7	61510	69420	66390	67990	65640	65950	67940	65900	75910	67590	66430	65290
8	63730	68890	66520	67720	65640	66080	68440	68750	73800	67630	66080	65290
9	63730	68440	67190	67410	65810	66170	68840	68980	72820	67680	65770	65240
10	63690	67720	67280	67280	65990	66260	68890	68620	72580	67680	65680	65240
11	63640	67100	67280	67050	66170	66480	68530	68260	73620	67630	65640	65370
12	63640	66570	67320	67410	66340	66790	67770	68030	72770	67590	65640	65370
13	63600	66300	67410	67630	66520	75280	66570	67770	71010	67500	65640	65370
14	63600	66120	67720	67410	66700	76250	66340	67540	69330	67410	65640	65370
15	63770	65950	70100	67190	66700	76440	66700	67370	67860	67370	65550	65370
16	63940	65770	72440	66920	66520	74900	67140	66880	67140	67280	65460	65370
17	64980	65770	73000	66790	66340	73190	67500	66650	67230	67140	65420	65290
18	66080	65860	73050	66430	66120	71470	67540	66520	67410	67010	65370	65420
19	66700	66040	72910	66340	65950	69700	68300	66340	67590	66830	65330	65420
20	66880	66260	71840	66340	65770	67860	69290	66080	67630	66740	65290	65460
21	67010	66260	69920	66340	65640	66970	69200	65990	67590	66570	65290	65730
22	67050	66300	67810	66300	65810	66570	69020	66040	67410	66430	65240	65640
23	67100	66430	67100	66300	65950	66300	68660	66120	67140	66340	65240	65590
24	67100	66520	66920	66260	66080	66120	68390	66260	66920	66170	65240	65590
25	71010	66570	66830	66260	66390	66040	68120	66340	66700	66080	65200	65590
26	71380	66650	66700	66390	66790	65990	67770	66430	66520	65990	65160	65590
27	71430	66520	66650	66480	66880	65810	67370	66610	66520	65900	65110	65640
28	71240	66430	71520	66430	66700	65640	67230	66650	66520	65810	65110	65640
29	71010	66300	73620	66340	---	65810	67100	67940	66970	65640	65070	65640
30	70780	66170	73470	66300	---	65810	67050	76690	67280	65810	65370	65640
31	70510	---	72720	66260	---	65950	---	78660	---	65950	65460	---
MAX	71430	70280	73620	71890	66880	76440	69290	78660	83550	67680	67720	65730
MIN	60450	65770	66040	66260	65640	65640	65990	65900	66520	65640	65070	65240
(+)	505.12	504.15	505.60	504.17	504.27	504.10	504.35	506.83	504.40	504.10	503.99	504.03
(@)	+9740	-4340	+6550	-6460	+440	-750	+1100	+11610	-11380	-1330	-490	+180

CAL YR 1994 MAX 73620 MIN 60450 (@) +6600
WTR YR 1995 MAX 83550 MIN 60450 (@) +4870

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

08105700 SAN GABRIEL RIVER AT LANEPORT, TX

LOCATION.--Lat 30°41'39", long 97°16'43", Williamson County, Hydrologic Unit 12070205, on right bank at upstream side of county bridge, 0.2 mi north of Laneport, 3.4 mi downstream from Willis Creek, 7.5 mi northwest of Thrall, and 26.2 mi upstream from mouth.

DRAINAGE AREA.--738 mi².

PERIOD OF RECORD.--July 1965 to current year.
Water-quality records.--Chemical and biochemical analyses: July 1972 to August 1989. Continuous daily water temperature records: December 1976 to March 1982.

REVISED RECORDS.--WDR 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.

REMARKS.--No estimated daily discharges. Records good. Flow partly regulated by Granger Lake (station 08105600) since Jan. 21, 1980. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--14 years (water years 1966-79), 289 ft³/s (209,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1966-79).--Maximum discharge, 31,200 ft³/s Oct. 31, 1974 (gage height, 30.80 ft); minimum daily, 0.28 ft³/s Aug. 25-28, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1910, 39.6 ft, occurred September 1921. Other significant flood occured April 1957, 34.6 ft; and October 1959, 33.8 ft; from floodmarks at present site and datum (discharges not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	168	80	759	142	197	72	161	60	30	24	4.2
2	6.5	166	56	757	142	195	71	160	17	30	24	4.3
3	6.3	166	22	754	143	193	72	160	373	29	71	4.1
4	6.5	168	22	746	144	193	74	158	792	29	172	3.8
5	6.5	173	23	562	145	195	74	157	1110	30	171	3.8
6	6.5	254	23	288	144	108	104	157	1400	29	172	3.8
7	9.6	324	24	286	144	8.9	165	157	1400	30	172	3.9
8	174	325	21	288	83	7.9	165	180	1390	29	172	4.1
9	10	326	24	287	22	7.5	165	213	852	36	101	3.6
10	6.8	325	25	289	22	7.9	165	291	286	49	19	3.8
11	5.4	320	22	292	23	7.6	230	286	317	55	9.5	3.8
12	5.1	320	23	293	22	7.5	416	289	565	61	5.7	3.6
13	4.8	242	23	293	22	126	725	292	1140	59	5.4	3.5
14	4.8	165	25	291	22	13	367	290	1100	59	5.4	3.9
15	5.9	164	45	290	91	197	9.9	289	959	60	5.4	3.8
16	5.8	163	48	290	195	928	8.8	289	560	59	5.6	3.4
17	6.7	87	27	292	196	1180	78	221	41	59	5.7	3.3
18	7.1	8.3	168	291	196	1170	170	154	37	59	5.6	3.5
19	8.4	7.7	314	216	196	1150	124	152	36	59	5.6	3.7
20	5.8	7.3	729	147	196	1150	174	149	101	58	5.0	3.7
21	5.4	7.5	1230	146	124	774	194	81	152	58	4.7	4.3
22	5.2	7.4	1200	147	24	292	304	15	164	46	5.0	3.6
23	5.2	7.2	658	146	24	292	306	14	163	25	4.5	3.4
24	33	7.1	178	146	23	226	303	14	162	24	4.7	3.3
25	87	20	178	138	24	163	306	14	162	25	4.7	3.3
26	89	78	177	144	25	163	306	14	98	25	4.5	2.1
27	126	79	176	145	106	160	303	14	33	25	4.5	3.3
28	169	78	200	144	202	137	238	14	31	25	4.6	3.3
29	169	79	187	142	---	73	160	14	32	23	4.4	3.1
30	168	79	486	142	---	73	160	42	32	25	4.2	3.2
31	167	---	769	142	---	73	---	18	---	26	4.5	---
TOTAL	1322.8	4321.5	7183	9293	2842	9468.3	6009.7	4459	13565	1236	1207.2	108.5
MEAN	42.7	144	232	300	101	305	200	144	452	39.9	38.9	3.62
MAX	174	326	1230	759	202	1180	725	292	1400	61	172	4.3
MIN	4.8	7.1	21	138	22	7.5	8.8	14	17	23	4.2	2.1
AC-FT	2620	8570	14250	18430	5640	18780	11920	8840	26910	2450	2390	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995#, BY WATER YEAR (WY)

MEAN	72.0	102	193	245	281	380	270	379	491	475	37.0	74.2
MAX	464	378	953	1233	1334	2210	1685	1153	1732	2196	134	922
(WY)	1982	1982	1986	1987	1992	1992	1992	1992	1981	1992	1992	1981
MIN	3.21	3.99	3.06	5.25	2.62	3.24	3.53	2.87	9.88	.19	.018	.000
(WY)	1983	1983	1983	1981	1980	1980	1984	1984	1994	1984	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1980 - 1995#	
ANNUAL TOTAL	22530.1		61016.0			
ANNUAL MEAN	61.7		167		250	
HIGHEST ANNUAL MEAN					1015	1992
LOWEST ANNUAL MEAN					21.4	1980
HIGHEST DAILY MEAN	1230	Dec 21	1400	Jun 6	6870	Mar 5 1992
LOWEST DAILY MEAN	1.0	Sep 22	2.1	Sep 26	.00	Aug 21 1984
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 20	3.1	Sep 24	.00	Aug 21 1984
INSTANTANEOUS PEAK FLOW			1470	Jun 5	31200	Oct 31 1974
INSTANTANEOUS PEAK STAGE			9.87	Jun 5	30.80	Oct 31 1974
ANNUAL RUNOFF (AC-FT)	44690		121000		181100	
10 PERCENT EXCEEDS	168		322		784	
50 PERCENT EXCEEDS	10		78		32	
90 PERCENT EXCEEDS	5.1		4.6		3.4	

Period of regulated streamflow.

08106350 LITTLE RIVER NEAR ROCKDALE, TX

LOCATION.--Lat 30°45'38", long 97°00'49", Milam County, Hydrologic Unit 12070204, on right bank downstream from Alcoa pumping station, 200 ft downstream from mouth of San Gabriel River, and 6.8 mi north of Rockdale.

DRAINAGE AREA.--6,959 mi².

PERIOD OF RECORD.--February 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 299.12 ft above sea level.

REMARKS.--Records fair. Daily discharges are not published above 1,000 ft³/s. There are numerous diversions for irrigation and municipal supply above station. For statement regarding regulations by National Resource Conservation Service floodwater-retarding structures in the Little River basin, see station number 08104500. Flow from the San Gabriel river is largely regulated by Granger Lake (station 08105600). 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 mi², in the Brushy Creek drainage basin. The Aluminum Company of America diverts water from Little River to their plant reservoir. Satellite telemeter at station

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 38.34 ft Dec. 21, 1991 (maximum discharge not determined); minimum daily discharge 13 ft³/s May 9, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 31.87 ft Mar. 14, at 0300 hours (maximum discharge not determined); minimum daily discharge, 127 ft³/s Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	614	564	---	e950	878	---	---	---	---	426	912
2	430	579	581	---	e990	779	---	---	---	---	503	849
3	641	549	564	---	e980	755	---	---	---	989	---	847
4	606	565	541	---	e840	751	786	688	---	885	---	833
5	272	---	538	---	e795	748	---	657	---	860	---	826
6	246	---	522	---	e780	744	---	692	---	847	---	787
7	246	---	512	---	e760	779	---	940	---	891	---	618
8	---	889	509	---	e745	---	---	---	---	905	---	568
9	---	799	509	---	e695	---	---	---	---	858	---	381
10	---	764	541	---	e670	---	---	---	---	849	---	360
11	829	766	577	---	e580	---	---	---	---	998	---	333
12	626	696	551	---	e570	---	---	---	---	---	---	403
13	535	612	525	---	e580	---	---	---	---	---	---	319
14	457	468	544	---	e580	---	---	---	---	---	---	313
15	436	427	---	---	e595	---	---	---	---	---	---	337
16	---	469	---	---	e620	---	---	---	---	643	---	484
17	---	607	---	---	e680	---	---	---	---	567	---	513
18	---	362	---	---	e645	---	---	---	---	536	---	541
19	---	273	---	---	e625	---	---	---	---	529	---	603
20	---	260	---	---	e600	---	---	---	---	509	---	566
21	848	275	---	---	e570	---	---	---	---	489	---	712
22	587	261	---	---	e520	---	---	---	---	475	---	839
23	477	233	---	---	e450	---	---	---	---	441	---	844
24	413	215	---	---	e470	---	---	---	---	405	---	791
25	422	201	665	---	505	---	---	---	---	395	---	751
26	---	215	584	---	631	---	---	---	---	328	---	723
27	---	282	559	---	865	---	---	---	933	279	864	715
28	988	270	---	---	831	---	---	---	859	271	848	710
29	827	259	---	e900	---	---	---	---	---	268	837	703
30	719	512	---	e820	---	---	---	---	---	254	835	671
31	657	---	---	e800	---	---	---	---	---	273	850	---
TOTAL	---	---	---	---	19122	---	---	---	---	---	---	18852
MEAN	---	---	---	---	683	---	---	---	---	---	---	628
MAX	---	---	---	---	990	---	---	---	---	---	---	912
MIN	---	---	---	---	450	---	---	---	---	---	---	313
AC-FT	---	---	---	---	37930	---	---	---	---	---	---	37390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	683	---	---	---	---	---	---	628
MAX	---	---	---	---	683	---	---	---	---	---	---	628
(WY)	---	---	---	---	1995	---	---	---	---	---	---	1995
MIN	---	---	---	---	683	---	---	---	---	---	---	628
(WY)	---	---	---	---	1995	---	---	---	---	---	---	1995

e Estimated

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1916 to current year.

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. 2, 1916, to Sept. 30, 1922, nonrecording gage at site 2.2 mi upstream at different datum. Oct. 1, 1922, to Apr. 8, 1926, nonrecording gage at McCowan bridge 1,990 ft upstream at same datum. Apr. 9, 1926, to Oct. 9, 1933, no recording gage at same location but at 1.58 ft lower datum. Oct. 10, 1933, to Aug. 13, 1992, recording gage at site 2,020 ft upstream at same datum. Aug. 14 to Oct. 21, 1992, non-recording gage at site.

REMARKS.--Records poor. Many small diversions for irrigation and municipal supply affect low flows. Since Mar. 8, 1954, 50 percent of the drainage area has been regulated by Belton Lake (station 08102000) on the Leon River, since Sept. 21, 1966, an additional 19 percent of the drainage area by Stillhouse Hollow Lake (station 08104050) on the Lampasas River, and since Jan. 21, 1980, an additional 10 percent of the drainage area by Granger Lake (station 08105700) on the San Gabriel River. The Aluminum Co. of American 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. Treated 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 mi² in the Nolan, Donahoe, and Brushy Creeks drainage basins. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1918-53), prior to regulation by Belton Lake, 1,807 ft³/s (1,309,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1918-53).--Maximum discharge since 1852, 647,000 ft³/s Sept. 10, 1921 (gage height, 53.2 ft, present datum, from floodmark), from rating curve extended above 110,000 ft³/s on basis of slope-area measurement of 647,000 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1852 reached about the same stage as that of Sept. 10, 1921. Flood in December 1913, reached a stage of 49.0 ft. Stages based on information furnished by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	689	608	3120	1050	875	2820	2100	8790	1550	692	881
2	314	648	614	3030	1090	779	2850	1810	10500	1240	891	825
3	655	609	606	2940	1080	743	2670	1640	6280	1120	953	817
4	663	606	564	2890	938	733	1940	e900	3000	1010	1160	805
5	334	1640	570	2860	876	730	1970	e850	2990	1030	2050	801
6	254	2010	568	2640	864	722	4590	e900	3700	e980	2230	817
7	250	1300	561	2640	861	693	4120	e1500	4500	911	2550	670
8	3920	1010	548	2640	847	1330	5170	e3500	4370	940	2640	637
9	4800	891	543	2620	777	1370	e5200	e6000	4230	895	2670	419
10	2860	844	572	2600	717	1330	e5300	5410	3100	993	2550	372
11	1030	840	618	2420	638	1320	5400	5380	3290	1050	2460	337
12	749	777	617	1700	589	1200	5910	5380	5780	1370	2420	411
13	636	676	572	2130	620	6300	6030	5380	3670	1650	2000	325
14	525	534	565	2440	616	14700	6150	5380	3390	1050	1920	305
15	487	461	2130	1480	637	7230	5790	5380	3480	1810	1920	331
16	546	463	8280	1310	752	4500	5690	5380	3480	857	1930	471
17	5550	687	6600	1260	820	5730	5620	5400	3070	714	1920	537
18	2850	445	1910	1520	729	5570	5790	5710	2760	630	1770	552
19	2710	296	1310	e2380	677	5390	5900	6310	2700	607	1290	638
20	2470	274	1670	2300	661	5320	5950	3060	2280	607	1190	608
21	1040	272	2960	1560	644	5370	6070	1800	2020	570	1310	677
22	696	264	3130	1300	548	4750	5930	1580	1410	607	1320	862
23	536	237	3060	1240	472	4600	5930	1470	1360	588	1200	846
24	453	209	2090	1220	491	4560	e5900	1520	1340	462	1190	810
25	427	198	1050	1220	488	4160	e5500	1510	1240	547	1190	769
26	2150	197	896	1460	598	3300	e5400	1470	1310	476	1120	742
27	2120	270	862	1510	835	3210	5310	1330	1220	363	857	731
28	1120	276	2320	1490	810	3210	4820	1320	1030	381	817	724
29	942	271	7470	1100	---	3140	3710	1510	1240	381	837	714
30	816	426	4960	956	---	2980	2270	5290	1740	363	837	687
31	739	---	2610	928	---	2900	---	9040	---	400	837	---
TOTAL	42750	18320	61434	60904	20725	108745	145700	105210	99270	26152	48721	19121
MEAN	1379	611	1982	1965	740	3508	4857	3394	3309	844	1572	637
MAX	5550	2010	8280	3120	1090	14700	6150	9040	10500	1810	2670	881
MIN	108	197	543	928	472	693	1940	850	1030	363	692	305
AC-FT	84790	36340	121900	120800	41110	215700	289000	208700	196900	51870	96640	37930

08106500 LITTLE RIVER AT CAMERON, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995#, BY WATER YEAR (WY)

MEAN	1280	995	1318	1622	2024	1925	2188	3258	2695	1652	638	592
MAX	10140	5063	8579	9662	13030	14420	10560	12970	11330	9426	5106	3141
(WY)	1960	1975	1992	1992	1992	1992	1992	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995#	
ANNUAL TOTAL	358809		757052			
ANNUAL MEAN	983		2074		1680	
HIGHEST ANNUAL MEAN					7759	1992
LOWEST ANNUAL MEAN					174	1956
HIGHEST DAILY MEAN	8280	Dec 16	14700	Mar 14	84200	May 18 1965
LOWEST DAILY MEAN	27	Sep 27	108	Oct 1	.00	Jul 12 1956
ANNUAL SEVEN-DAY MINIMUM	33	Sep 23	235	Nov 21	.00	Jul 12 1956
INSTANTANEOUS PEAK FLOW			15500	Mar 14	116000	Apr 5 1957
INSTANTANEOUS PEAK STAGE			28.04	Mar 14	39.56	Apr 5 1957
ANNUAL RUNOFF (AC-FT)	711700		1502000		1217000	
10 PERCENT EXCEEDS	2960		5380		4750	
50 PERCENT EXCEEDS	429		1240		492	
90 PERCENT EXCEEDS	87		472		64	

e Estimated

08106500 LITTLE RIVER AT CAMERON, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1959 to September 1974 and February 1994 to current year. Chemical and biochemical analyses: January 1968 to July 1993. Sediment analyses: February 1978 to July 1993.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1959 to current year.
WATER TEMPERATURES: October 1959 to current year.

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 regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas District office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,280 microsiemens Sept. 25, 26, 1963; minimum daily, 154 microsiemens Sept. 13, 1974.
WATER TEMPERATURES: Maximum daily, 33.0°C Aug. 6, 1964, Aug. 1, 1969; minimum daily, 0.0°C Dec. 25, 26, 29, 30, 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 695 microsiemens Nov. 27; minimum daily, 206 microsiemens Oct. 17.
WATER TEMPERATURE: Maximum daily, 31.0°C on many days during July.; minimum daily, 9.0°C Feb. 13-14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN 31...	1200	920	565	8.0	11.0	210	40	64	12
MAR 06...	1225	721	592	8.0	14.0	220	39	64	14
JUN 15...	1402	3450	446	7.8	--	180	35	52	12

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JAN 31...	33	1	4.0	170	37	49	0.30	6.4	307
MAR 06...	37	1	3.5	180	40	49	0.30	--	315
JUN 15...	24	0.8	3.4	140	28	34	0.30	7.1	247

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.	1994	42750	370	210	24300	29	3330	20	2260	150
NOV.	1994	18320	496	279	13800	40	1980	30	1490	190
DEC.	1994	61434	423	239	39700	33	5550	24	3940	170
JAN.	1995	60904	523	294	48400	42	6990	32	5310	200
FEB.	1995	20725	583	326	18300	48	2700	38	2150	210
MAR.	1995	108745	484	273	80100	39	11500	29	8530	190
APR.	1995	145700	516	290	114000	42	16400	32	12400	200
MAY	1995	105210	472	266	75700	38	10800	28	7930	180
JUNE	1995	99270	431	244	65300	34	9150	24	6520	170
JULY	1995	26152	534	300	21200	44	3080	33	2360	200
AUG.	1995	48721	494	279	36700	40	5240	30	3890	190
SEPT	1995	19121	508	286	14800	41	2120	31	1590	190
TOTAL		757052	**	**	552000	**	78800	**	58400	**
WTD.AVG.		2074	479	270	**	39	**	29	**	190

08106500 LITTLE RIVER AT CAMERON, TX--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	487	621	478	561	600	558	535	320	470	607	511
2	659	500	575	490	563	572	556	535	278	450	570	511
3	589	507	545	494	560	569	555	542	363	500	612	510
4	528	519	564	498	565	577	578	560	432	526	472	499
5	534	412	571	504	572	590	596	576	432	535	472	500
6	545	418	568	518	558	589	482	586	428	537	475	500
7	549	450	564	524	557	593	491	601	455	538	482	508
8	304	462	562	525	556	601	521	536	459	542	478	510
9	316	419	566	526	557	568	522	442	460	537	476	528
10	354	443	562	524	579	548	524	463	480	531	480	546
11	404	469	562	523	582	552	522	493	471	538	484	567
12	443	478	564	531	596	560	517	500	379	523	485	574
13	460	478	581	554	599	403	510	501	427	508	491	565
14	495	485	574	452	613	329	511	500	451	493	489	567
15	512	533	432	512	611	364	516	505	463	496	491	638
16	523	544	319	524	615	461	520	505	477	521	491	538
17	206	564	346	524	577	492	518	505	490	562	489	513
18	372	548	407	529	570	499	520	505	504	578	495	571
19	327	614	449	524	576	509	519	411	506	589	501	488
20	368	643	472	530	576	508	507	487	512	592	499	449
21	449	643	472	565	580	511	499	500	523	575	499	456
22	441	576	480	565	579	530	514	514	524	576	499	551
23	452	595	481	563	615	533	507	524	545	580	499	470
24	508	627	510	563	621	533	501	528	542	590	497	488
25	559	643	533	564	624	536	500	532	540	596	496	488
26	379	662	544	554	626	552	507	532	543	600	495	489
27	396	695	564	548	643	551	509	537	533	607	507	480
28	451	657	504	552	595	551	506	531	553	607	513	484
29	443	612	348	568	---	549	507	534	537	615	514	485
30	457	609	318	574	---	558	527	318	583	630	513	488
31	474	---	392	565	---	556	---	290	---	580	512	---
MEAN	455	543	502	531	587	530	521	504	474	552	503	516
MAX	659	695	621	574	643	601	596	601	583	630	612	638
MIN	206	412	318	452	556	329	482	290	278	450	472	449

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	19.0	14.0	12.0	12.0	13.0	16.0	21.0	25.0	25.0	28.0	28.0
2	24.0	19.0	13.0	10.0	12.0	11.0	16.0	20.0	25.0	25.0	28.0	29.0
3	25.0	21.0	14.0	10.0	12.0	10.0	16.0	20.0	26.0	26.0	28.0	29.0
4	25.0	22.0	15.0	10.0	13.0	10.0	16.0	21.0	26.0	26.0	28.0	30.0
5	24.0	20.0	16.0	10.0	13.0	12.0	16.0	21.0	25.0	27.0	29.0	29.0
6	25.0	19.0	18.0	11.0	13.0	14.0	17.0	23.0	26.0	28.0	29.0	29.0
7	25.0	19.0	18.0	10.0	12.0	12.0	17.0	24.0	26.0	28.0	28.0	28.0
8	19.0	20.0	18.0	12.0	11.0	12.0	17.0	22.0	26.0	28.0	28.0	28.0
9	18.0	21.0	15.0	12.0	11.0	11.0	17.0	20.0	26.0	28.0	28.0	28.0
10	19.0	18.0	13.0	15.0	12.0	12.0	17.0	22.0	26.0	29.0	28.0	27.0
11	18.0	17.0	13.0	15.0	12.0	13.0	14.0	21.0	25.0	29.0	28.0	27.0
12	18.0	17.0	13.0	16.0	10.0	15.0	15.0	20.0	23.0	29.0	28.0	27.0
13	18.0	18.0	11.0	15.0	9.0	15.0	16.0	20.0	23.0	28.0	28.0	27.0
14	18.0	20.0	12.0	14.0	9.0	16.0	16.0	23.0	24.0	26.0	28.0	28.0
15	18.0	18.0	13.0	13.0	11.0	15.0	16.0	22.0	25.0	26.0	28.0	28.0
16	20.0	18.0	14.0	13.0	11.0	15.0	17.0	22.0	25.0	28.0	28.0	29.0
17	21.0	18.0	14.0	14.0	11.0	14.0	17.0	22.0	25.0	29.0	28.0	29.0
18	22.0	18.0	13.0	13.0	12.0	14.0	16.0	20.0	25.0	30.0	28.0	27.0
19	22.0	18.0	13.0	13.0	14.0	14.0	17.0	21.0	25.0	30.0	28.0	28.0
20	23.0	18.0	13.0	13.0	15.0	16.0	18.0	21.0	25.0	30.0	29.0	26.0
21	23.0	19.0	14.0	13.0	15.0	11.0	17.0	22.0	25.0	30.0	29.0	26.0
22	24.0	17.0	13.0	13.0	15.0	18.0	19.0	23.0	25.0	30.0	29.0	22.0
23	24.0	15.0	13.0	11.0	17.0	18.0	16.0	24.0	25.0	30.0	29.0	22.0
24	23.0	15.0	13.0	12.0	17.0	18.0	17.0	24.0	26.0	31.0	28.0	22.0
25	22.0	15.0	12.0	11.0	15.0	18.0	17.0	23.0	26.0	31.0	28.0	22.0
26	19.0	17.0	12.0	12.0	15.0	18.0	18.0	23.0	26.0	31.0	29.0	23.0
27	18.0	20.0	11.0	13.0	18.0	17.0	18.0	23.0	26.0	31.0	29.0	24.0
28	18.0	17.0	11.0	13.0	15.0	15.0	18.0	25.0	27.0	31.0	30.0	25.0
29	18.0	16.0	10.0	12.0	---	14.0	20.0	25.0	26.0	30.0	29.0	26.0
30	19.0	15.0	11.0	11.0	---	14.0	21.0	23.0	24.0	28.0	28.0	26.0
31	19.0	---	11.0	11.0	---	14.0	---	23.0	---	28.0	28.0	---
MEAN	21.1	18.1	13.4	12.4	12.9	14.2	16.9	22.1	25.3	28.6	28.4	26.6
MAX	25.0	22.0	18.0	16.0	18.0	18.0	21.0	25.0	27.0	31.0	30.0	30.0
MIN	18.0	15.0	10.0	10.0	9.0	10.0	14.0	20.0	23.0	25.0	28.0	22.0

08108700 BRAZOS RIVER AT SH 21 NR BRYAN, TX

LOCATION.--Lat 30°37'36", long 96°32'38", Brazos-Burleson County line, Hydrologic Unit 12070101, on right bank, 8 ft downstream from bridge on State Highway 21, 2.1 mi upstream from Little Brazos River, 10.5 mi west of Bryan.

DRAINAGE AREA.--39,049 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--July 1993 to current year. August 1899 to December 1902, February 1918 to July 1993, published as Brazos River Nr. Bryan (08109000) 4.8 mi downstream. Monthly figures only for some periods, published in WSP 1312. Prior to September 1925, published as "near College Station".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 188.64 ft above sea level. Aug. 1, 1899, to Dec. 31, 1902, and Feb. 23, 1918, to Sept. 17, 1925, nonrecording gage at site 12.3 mi downstream at different datum. Sept. 11, 1925, to Oct. 24, 1932 nonrecording a gage at site 4.2 mi downstream at different datum. Oct. 25, 1932, to Sept. 30, 1993, recording gage at site 4.8 mi downstream at different datum. Since Oct. 1, 1993, recording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow is partly 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 mi². Since 1941, at least 10 percent of drainage area is regulated by upstream reservoirs. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--24 years (water years 1900-1902, 1919-25, 1927-40), 5,652 ft³/s (4,095,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum stage since at least 1854, 63 ft Sept. 12 1921, present site and datum (discharge not determined).

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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1240	1760	2560	1260	5430	1890	1190	13200	1320	1050	1450
2	1230	1490	2000	2450	1350	4750	1690	1620	11200	1230	924	996
3	1090	1720	1330	2230	1500	4560	1430	1500	9450	1200	804	1110
4	850	2000	797	2210	1380	4200	1200	1280	8540	1210	1070	741
5	940	1550	572	2320	1230	3880	985	1620	6690	1150	1020	788
6	968	1250	636	2330	1030	2420	812	1370	6150	1120	597	497
7	773	1270	591	2270	1040	1880	694	1190	5530	1110	517	343
8	1090	1310	586	2040	763	1610	648	992	5330	1140	563	479
9	940	1190	988	1270	593	1520	1190	1050	5080	1060	583	855
10	783	1370	873	1320	586	1480	1450	1210	4450	1020	613	1060
11	875	1360	800	1610	673	1700	980	5430	5190	1200	544	2050
12	926	1110	987	1380	1240	2330	712	8170	4840	1030	413	1180
13	764	905	1310	1070	1470	2280	624	8610	4800	594	562	1130
14	890	1010	2630	890	1360	2010	595	14200	4630	737	584	1140
15	1130	881	3000	1200	1090	1690	610	20300	4500	758	538	1070
16	1140	1040	2620	1010	799	1630	690	17200	4520	592	508	982
17	991	1090	1570	946	617	1850	826	16500	4500	525	787	960
18	680	1020	1320	826	570	1770	876	17400	4040	545	701	1030
19	1040	1910	1370	792	592	2020	692	13600	3740	1170	450	847
20	1750	1590	1240	822	587	1870	624	12100	3250	1800	385	526
21	3750	1240	990	979	645	1690	746	11000	2540	1150	541	449
22	5820	1240	997	1030	3190	1620	1030	10200	2310	896	1120	573
23	3870	1270	1370	986	14500	1490	1230	11300	2210	1160	1320	671
24	3080	1190	1660	1160	17200	1370	1160	12400	1690	1160	1070	423
25	1870	1070	1470	1100	11400	1480	1030	11300	1570	1130	928	609
26	1570	1060	1460	822	9180	1900	1030	10400	2560	1410	1090	576
27	1540	1140	1490	688	6520	1580	1080	9740	2770	1480	971	408
28	1380	1790	1520	686	5820	1280	1070	10400	2820	1240	881	450
29	1260	1880	2190	986	---	1850	1050	13500	2660	1090	1030	950
30	1070	1740	2380	678	---	2250	982	12000	1660	889	1070	885
31	970	---	2420	531	---	2120	---	12100	---	886	1270	---
TOTAL	46310	39926	44927	41192	88185	69510	29626	270872	142420	33002	24504	25228
MEAN	1494	1331	1449	1329	3149	2242	988	8738	4747	1065	790	841
MAX	5820	2000	3000	2560	17200	5430	1890	20300	13200	1800	1320	2050
MIN	680	881	572	531	570	1280	595	992	1570	525	385	343
AC-FT	91860	79190	89110	81700	174900	137900	58760	537300	282500	65460	48600	50040

08108700 BRAZOS RIVER AT SH 21 NR BRYAN, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	1494	1331	1449	1329	3149	2242	988	8738	4747	1065	912	964
MAX	1494	1331	1449	1329	3149	2242	988	8738	4747	1065	1034	1086
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1993	1993
MIN	1494	1331	1449	1329	3149	2242	988	8738	4747	1065	790	841
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 WATER YEAR		WATER YEARS 1993 - 1994	
ANNUAL TOTAL	855702			
ANNUAL MEAN	2344		2344	
HIGHEST ANNUAL MEAN			2344	1994
LOWEST ANNUAL MEAN			2344	1994
HIGHEST DAILY MEAN	20300	May 15	20300	May 15 1994
LOWEST DAILY MEAN	343	Sep 7	343	Sep 7 1994
ANNUAL SEVEN-DAY MINIMUM	530	Sep 21	530	Sep 21 1994
INSTANTANEOUS PEAK FLOW	20900	May 15	20900	May 15 1994
INSTANTANEOUS PEAK STAGE	22.30	May 15	22.30	May 15 1994
ANNUAL RUNOFF (AC-FT)	1697000		1698000	
10 PERCENT EXCEEDS	5370		4540	
50 PERCENT EXCEEDS	1200		1160	
90 PERCENT EXCEEDS	596		640	

08108700 BRAZOS RIVER AT SH 21 NR BRYAN, TX--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	596	1780	2910	10300	2520	1680	4410	5180	16300	4080	13600	2590
2	753	1660	3190	7860	3040	1710	4550	4570	16800	3470	16400	2610
3	828	1640	2910	7060	2830	1790	4460	4480	17800	2800	21700	2390
4	1090	1410	2220	7400	2890	2130	4260	4540	10200	2350	26000	2120
5	1100	1470	2040	7110	2350	2220	4240	4180	8180	2140	29000	2010
6	1230	2440	1860	7300	1990	1920	12000	3430	7450	2310	31100	1860
7	1140	3450	1840	6540	1990	1590	14600	6860	8370	2270	29800	1750
8	1810	2490	1750	5980	1990	1430	13400	16700	9340	2040	25300	1940
9	7260	1710	2050	5370	2010	2780	14200	22600	8860	1980	21100	1710
10	6140	1560	1860	5750	2540	3490	14500	30600	7770	2140	20300	1510
11	3220	1330	2240	5500	2320	2750	14500	31000	5990	1990	19600	1400
12	1380	1280	4150	5460	1920	2420	19100	31000	8930	2050	15700	1330
13	1040	1320	3010	8150	1590	5640	18300	32400	13300	2520	10200	2250
14	860	1230	2840	11500	1770	32800	14800	31600	16900	2810	7510	1590
15	751	1070	3260	11800	2340	34900	14300	28800	21200	3590	7230	1140
16	1610	909	22200	7590	1980	20500	12800	28500	20800	3160	6980	1030
17	12400	1080	29600	5030	1530	19600	12400	22000	15800	2090	5570	1000
18	11700	1880	22200	4200	1570	19400	12400	20000	10500	1800	4810	1160
19	6330	1400	13300	4570	1730	15800	11800	18700	8630	1550	4250	1940
20	4540	1410	9320	6370	1750	14100	11400	15400	8340	1370	4090	1900
21	3060	2040	8680	5940	1600	13200	12200	10300	7810	1510	4010	2230
22	1570	2140	11000	4200	1370	11900	13200	7620	7150	1540	3980	2990
23	1170	2480	10200	3920	1380	9910	13200	6890	5090	1590	3390	2360
24	929	2750	8490	4830	1400	8740	17100	6620	4950	1450	3380	2960
25	765	5470	5680	4980	1250	8140	17200	5680	4840	1770	3260	2990
26	737	8700	3730	4950	1310	6940	14800	5170	4390	1400	3290	3410
27	2030	7160	4010	4630	1370	5420	12700	5100	3340	1200	3220	3190
28	2370	4800	5450	3750	1630	5060	11200	4950	3070	1580	2560	2830
29	1820	4420	e13900	3440	---	5220	10500	5660	3380	1560	2400	2220
30	1770	2900	e16900	3000	---	5110	7340	6780	3220	1320	2120	2180
31	1450	---	14100	3260	---	4460	---	12200	---	1330	2070	---
TOTAL	83449	75379	236890	187740	53960	272750	361860	439510	288700	64760	353920	62590
MEAN	2692	2513	7642	6056	1927	8798	12060	14180	9623	2089	11420	2086
MAX	12400	8700	29600	11800	3040	34900	19100	32400	21200	4080	31100	3410
MIN	596	909	1750	3000	1250	1430	4240	3430	3070	1200	2070	1000
AC-FT	165500	149500	469900	372400	107000	541000	717700	871800	572600	128500	702000	124100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995h, BY WATER YEAR (WY)

MEAN	2093	1922	4545	3692	2538	5520	6525	11460	7185	1577	4414	1338
MAX	2692	2513	7642	6056	3149	8798	12060	14180	9623	2089	11420	2086
(WY)	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995	1995	1995
MIN	1494	1331	1449	1329	1927	2242	988	8738	4747	1065	790	841
(WY)	1994	1994	1994	1994	1995	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1993 - 1995h	
ANNUAL TOTAL	1120257		2481508			
ANNUAL MEAN	3069		6799		4572	
HIGHEST ANNUAL MEAN					6799	1995
LOWEST ANNUAL MEAN					2344	1994
HIGHEST DAILY MEAN	29600	Dec 17	34900	Mar 15	34900	Mar 15 1995
LOWEST DAILY MEAN	343	Sep 7	596	Oct 1	343	Sep 7 1994
ANNUAL SEVEN-DAY MINIMUM	530	Sep 21	962	Oct 1	530	Sep 21 1994
INSTANTANEOUS PEAK FLOW			38500	Mar 15	38500	Mar 15 1995
INSTANTANEOUS PEAK STAGE			29.65	Mar 15	29.65	Mar 15 1995
ANNUAL RUNOFF (AC-FT)	2222000		4922000		3312000	
10 PERCENT EXCEEDS	9240		16900		12100	
50 PERCENT EXCEEDS	1380		3750		1740	
90 PERCENT EXCEEDS	610		1390		800	

e Estimated
h See "PERIOD OF RECORD" paragraph.

08109000 BRAZOS RIVER NEAR BRYAN, TX

LOCATION.--Lat 30°36'50", long 96°29'11", Brazos-Burleson County line, Hydrologic Unit 12070101, on left bank 2.4 mi downstream from Little Brazos River, 5 mi downstream from Texas and New Orleans Railroad Co. bridge, 9 mi southwest of Bryan, and at mile 281.1.

DRAINAGE AREA.--39,515 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--August 1899 to December 1902, February 1918 to January 1926, June 1926 to September 1993. Monthly figures only for some periods, published in WSP 1312. Prior to September 1925, published as "near College Station".

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 192.33 ft above sea level. Aug. 1, 1899, to Dec. 31, 1902, and Feb. 23, 1918, to Sept. 17, 1925, nonrecording gage at site 7.5 mi downstream at different datum. Sept. 11, 1925, to Oct. 24, 1932, nonrecording a gage at site 3,000 ft upstream at present datum. Since Oct. 25, 1932, recording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records fair. Flow is partly 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, muncipal, 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 mi². Since 1941, at least 10 percent of drainage area is regulated by upstream reservoirs. Several obervations of water temperature were made during the year. Satellite telemeter at station. Water year 1993 not previously published.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--24 years (water years 1900-1902, 1919-25, 1927-40) prior to regulation by many upstream reservoirs, 5,652 ft/s (4,095,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1900-1902, 1919-25, 1927-40).--Maximum gage height, 54 ft Sept. 12 1921, present site and datum (discharge not detemined); minimum daily, 89 ft/s Aug. 24, 1934. Maximum stage since at least 1854, that of Sept. 12, 1921.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 5, 1913, reached a stage of 51 ft, present site and datum, from information by Texas and New Orleans Railroad Co. at their bridge 5 mi upstream and from comparison of maximum stages reached by floods in 1913 and 1921 at gage near College Station. Flood in 1854 reached about the same stage as flood of Dec. 5, 1913.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	614	1030	1840	5690	9580	9890	7760	3160	8320	1250	998
2	1640	555	906	1790	4120	12300	8990	9520	3240	9120	1210	940
3	1570	533	839	1640	3530	16400	8380	16000	3030	9500	1160	940
4	1470	522	815	1760	3540	13600	10600	14600	2690	8510	1170	1130
5	1380	602	839	1670	11600	12300	14300	11700	3070	7940	1120	1130
6	1240	634	888	1610	17400	11800	12000	15000	3140	6790	800	954
7	1080	581	900	1880	14200	11400	11000	19000	2740	6510	998	851
8	1130	622	815	2090	10300	11200	16200	17100	2550	6070	1130	794
9	1300	923	806	2670	7780	11000	19100	13600	2520	4750	1040	787
10	1450	821	790	3860	7070	9310	15200	25400	2270	3420	754	854
11	1250	873	955	4660	6550	7300	12100	35900	2450	2930	1080	909
12	972	928	1270	3600	7460	8220	10600	29000	2840	2350	1140	673
13	789	997	1440	3350	6790	17200	9760	14600	2480	2110	1080	789
14	676	1060	1510	2650	5760	17100	9400	11300	4270	2150	1050	1310
15	630	1100	3880	2400	5300	13700	10100	11000	4210	2110	1080	1190
16	853	978	17300	2330	4890	11000	11300	9330	2910	2060	1050	1210
17	982	957	18700	2190	8830	9650	9880	7690	2860	2010	828	1160
18	1230	927	11400	2120	9470	9830	8970	6390	2570	1810	964	1020
19	1230	1080	7950	2980	6730	10200	8660	6190	3340	1600	1080	889
20	826	2120	5620	3810	5740	25400	9180	6600	10600	1600	986	1110
21	677	6920	4530	7550	5300	38800	8000	5320	12400	1610	1070	996
22	618	6260	4260	7180	4430	33100	8100	4470	29300	1510	868	953
23	708	3530	4040	4620	4270	29200	9910	4400	25100	1350	964	1200
24	958	3220	3770	3820	3560	28500	7700	6680	10800	1240	1060	1140
25	957	2610	3010	3120	3080	21300	6590	6490	4720	1300	1040	1080
26	1030	1950	2410	2690	3010	17900	6480	5020	4030	1250	989	1320
27	1280	2030	2370	2450	4710	16000	7560	4430	11300	1230	996	1300
28	1600	1760	1940	2170	6950	14800	7490	3610	11000	1210	1050	1810
29	1270	1520	2350	2260	---	14100	6970	2790	7840	1190	1070	1740
30	851	1300	2060	5920	---	12900	7220	3850	7260	1330	976	1410
31	674	---	1890	7540	---	12200	---	3820	---	1400	1010	---
TOTAL	33761	48527	111283	100220	188060	487290	301630	338560	190690	106280	32063	32587
MEAN	1089	1618	3590	3233	6716	15720	10050	10920	6356	3428	1034	1086
MAX	1640	6920	18700	7550	17400	38800	19100	35900	29300	9500	1250	1810
MIN	618	522	790	1610	3010	7300	6480	2790	2270	1190	754	673
AC-FT	66960	96250	220700	198800	373000	966500	598300	671500	378200	210800	63600	64640

08109000 BRAZOS RIVER NEAR BRYAN, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1993#, BY WATER YEAR (WY)

MEAN	3802	3557	4081	4739	5598	5507	6623	11650	8652	3740	1867	2282
MAX	25800	24290	32000	46160	43270	41360	33650	52650	50410	13280	6287	13230
(WY)	1960	1975	1992	1992	1992	1992	1945	1957	1957	1992	1992	1942
MIN	111	214	171	212	221	271	408	675	899	903	640	232
(WY)	1953	1989	1955	1955	1984	1954	1951	1978	1956	1952	1963	1988

SUMMARY STATISTICS	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1941 - 1993#	
ANNUAL TOTAL	6733151		1970951			
ANNUAL MEAN	18400		5400		5170	
HIGHEST ANNUAL MEAN					21720	1992
LOWEST ANNUAL MEAN					627	1984
HIGHEST DAILY MEAN	83400	Feb 26	38800	Mar 21	161000	Dec 23 1991
LOWEST DAILY MEAN	522	Nov 4	522	Nov 4	90	Oct 28 1952
ANNUAL SEVEN-DAY MINIMUM	577	Nov 1	577	Nov 1	92	Nov 1 1952
INSTANTANEOUS PEAK FLOW			39500	Mar 21	172000	May 5 1944
INSTANTANEOUS PEAK STAGE			21.01	Mar 21	43.20	May 5 1944
ANNUAL RUNOFF (AC-FT)	13360000		3909000		3746000	
10 PERCENT EXCEEDS	46400		12600		12500	
50 PERCENT EXCEEDS	14200		2690		1740	
90 PERCENT EXCEEDS	956		882		479	

08109700 MIDDLE YEGUA CREEK NEAR DIME BOX, TX

LOCATION.--Lat 30°20'21", long 96°54'16", Lee County, Hydrologic Unit 12070102, on right bank 25 ft upstream from centerline of State Highway 21, 4.5 mi upstream from West Yegua Creek, 5.0 mi southwest of Dime Box, and 17.5 mi upstream from mouth.

DRAINAGE AREA.--236 mi².

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 295.4 ft above sea level (furnished by Texas Department of Transportation June 30 to July 21, 1970, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Several observations of water temperature were made during the year. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1851, 16 ft in December 1913, from information by local residents.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	2300	6060	13.74	Mar. 16	0700	972	10.16
Dec. 16	2400	6060	13.74	June 2	1400	3570	12.62
Dec. 30	0700	2200	11.06	June 15	1400	565	9.29
Jan. 14	1300	2070	11.54				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

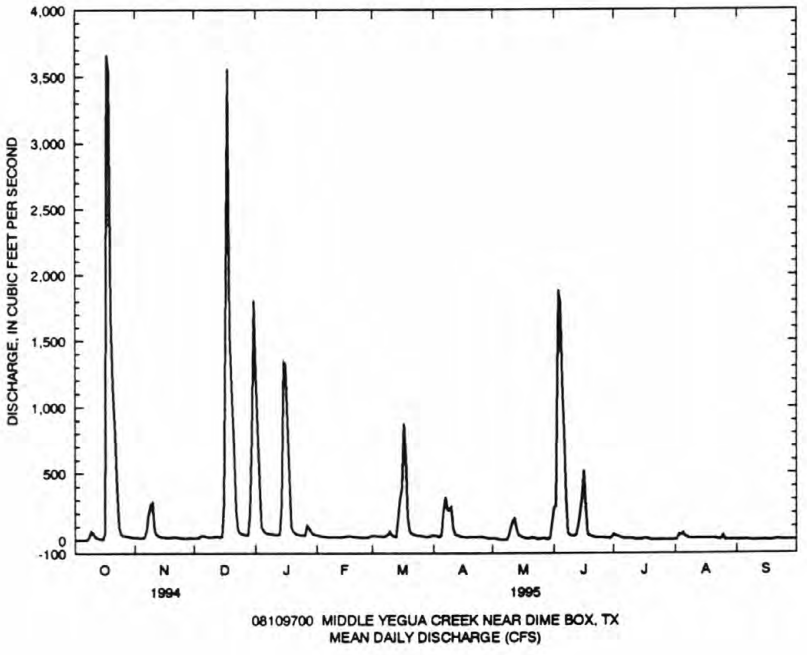
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	19	17	847	35	36	35	13	256	36	9.5	.86
2	1.0	18	18	436	32	32	30	10	1880	32	44	1.1
3	1.8	17	30	102	31	31	26	5.7	1790	23	38	.41
4	1.8	16	33	67	28	29	33	4.2	1190	19	53	.20
5	1.1	21	33	56	26	30	228	3.5	817	15	28	.10
6	.91	83	28	52	25	29	320	2.6	320	13	19	.05
7	.74	184	25	50	25	33	231	2.2	55	13	15	.00
8	20	263	24	49	24	45	221	26	40	13	13	.00
9	66	280	24	45	25	66	244	92	33	13	12	.00
10	56	75	28	42	24	40	95	139	30	11	12	.00
11	30	41	30	41	25	29	48	161	43	6.6	12	.00
12	17	33	28	45	25	26	38	91	100	6.4	12	.00
13	12	28	25	266	25	167	32	40	201	6.0	14	.00
14	6.6	25	29	1340	27	308	28	30	322	7.6	14	.06
15	4.6	23	272	1320	30	398	25	23	520	12	13	.04
16	55	21	1960	892	32	876	22	17	239	13	12	.02
17	3660	20	3560	472	32	622	20	14	45	13	12	.02
18	3530	20	1550	101	28	171	23	13	33	6.8	12	.03
19	1680	22	1060	67	24	66	26	13	27	.20	12	.06
20	1160	23	705	53	23	50	24	26	24	1.1	11	5.4
21	804	23	230	46	23	42	24	18	21	2.1	8.3	4.8
22	471	20	79	42	21	40	25	12	20	3.0	6.3	2.9
23	100	17	58	39	21	37	26	6.8	21	3.4	6.1	1.4
24	47	16	50	38	20	33	27	8.4	20	3.2	35	.55
25	37	15	44	37	20	31	25	13	19	2.9	3.0	.25
26	33	15	41	110	21	30	21	13	17	2.9	.59	.18
27	30	17	39	95	30	29	17	9.0	16	3.7	.47	.26
28	27	18	203	64	35	25	15	6.6	15	3.8	.43	.36
29	24	18	776	51	---	29	14	19	21	2.7	.37	.47
30	21	17	1810	43	---	39	13	134	47	2.1	.28	.49
31	21	---	1250	39	---	36	---	236	---	3.9	.17	---
TOTAL	11920.65	1408	14059	6947	737	3455	1956	1202.0	8182	294.40	428.51	20.01
MEAN	385	46.9	454	224	26.3	111	65.2	38.8	273	9.50	13.8	.67
MAX	3660	280	3560	1340	35	876	320	236	1880	36	53	5.4
MIN	.74	15	17	37	20	25	13	2.2	15	.20	.17	.00
AC-FT	23640	2790	27890	13780	1460	6850	3880	2380	16230	584	850	40

08109700 MIDDLE YEGUA CREEK NEAR DIME BOX, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	29.9	41.9	87.0	70.8	93.7	63.2	61.5	127	109	6.76	1.83	16.3
MAX	385	415	694	481	891	280	355	662	1052	67.7	18.2	368
(WY)	1995	1975	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	30042.10		50609.57			
ANNUAL MEAN	82.3		139		58.8	
HIGHEST ANNUAL MEAN					256	1992
LOWEST ANNUAL MEAN					.55	1964
HIGHEST DAILY MEAN	3660	Oct 17	3660	Oct 17	9470	Dec 22 1991
LOWEST DAILY MEAN	.00	Jul 22	.00	Sep 7	.00	Aug 1 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 22	.00	Sep 7	.00	Aug 1 1962
INSTANTANEOUS PEAK FLOW			6060	Oct 17	12500	Dec 22 1991
INSTANTANEOUS PEAK STAGE			13.74	Oct 17	15.39	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	59590		100400		42610	
10 PERCENT EXCEEDS	45		259		92	
50 PERCENT EXCEEDS	11		25		4.9	
90 PERCENT EXCEEDS	.99		1.1		.00	



08109700 MIDDLE YEGUA CREEK NEAR DIME BOX, TX
MEAN DAILY DISCHARGE (CFS)

08109800 EAST YEGUA CREEK NEAR DIME BOX, TX

LOCATION.--Lat 30°24'26", long 96°49'02", Burleson County, Hydrologic Unit 12070102, on left bank 49 ft upstream from centerline of State Highway 21, 0.8 mi downstream from Buffalo Creek, 3.5 mi north of Dime Box, and 12.2 mi upstream from mouth.

DRAINAGE AREA.--244 mi².

PERIOD OF RECORD.--August 1962 to current year.
Water-quality records.--Chemical and biochemical analyses: November 1980 to August 1987.
Sediment analyses: June 1966 to September 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.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions above station for irrigation. Two observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	0800	9,080	12.98	Mar. 15	0400	1,320	9.72
Dec. 16	2100	4,410	11.58	April 5	1800	1,140	9.55
Dec. 29	2400	2,100	10.35	April 7	1800	1,210	9.62
Jan. 13	1600	2,460	10.60	June 2	2200	2,220	10.44

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	36	34	296	54	50	41	31	967	61	33	22
2	19	35	33	103	52	45	38	28	1620	38	84	23
3	18	35	48	78	52	45	35	27	1790	31	114	23
4	19	35	51	e66	51	46	53	29	942	33	69	19
5	20	47	42	e64	49	48	418	29	307	30	35	18
6	19	109	35	e73	48	50	610	28	62	29	26	17
7	18	138	36	e74	48	75	953	27	50	29	23	17
8	44	74	37	70	48	97	864	76	42	27	25	17
9	114	45	36	e66	47	61	279	147	37	28	23	17
10	113	38	41	e61	48	47	70	220	35	28	23	17
11	48	37	40	57	49	43	51	138	59	26	23	17
12	36	38	37	75	48	41	42	47	124	26	22	17
13	38	37	35	e1490	e47	370	39	39	125	26	22	56
14	38	36	40	e1790	e49	996	34	36	54	25	25	124
15	34	36	526	e906	e50	1170	33	33	41	25	20	51
16	237	36	2990	e300	e52	520	33	31	36	25	20	26
17	6490	35	2500	e97	e55	175	33	29	32	24	19	22
18	4120	36	1240	e83	e52	91	36	35	31	20	19	20
19	1770	38	535	e74	e50	72	40	127	30	20	19	20
20	1010	39	161	e66	e48	63	44	365	30	21	19	28
21	508	38	87	e61	e46	58	56	610	29	22	19	28
22	225	38	71	e60	e44	57	45	144	28	22	18	48
23	106	36	63	e58	e42	51	47	39	28	24	20	46
24	80	33	60	57	40	47	79	38	29	24	21	29
25	75	34	50	56	38	44	54	35	29	23	22	24
26	78	37	47	208	42	42	40	33	29	23	22	23
27	74	37	45	134	54	38	36	33	28	25	22	21
28	70	37	203	98	58	33	34	33	27	24	20	21
29	e66	36	1440	67	---	38	33	62	27	24	17	21
30	e51	35	1680	58	---	45	32	220	54	24	21	20
31	e39	---	873	55	---	44	---	211	---	26	21	---
TOTAL	15595	1321	13116	6801	1361	4602	4202	2980	6722	833	886	852
MEAN	503	44.0	423	219	48.6	148	140	96.1	224	26.9	28.6	28.4
MAX	6490	138	2990	1790	58	1170	953	610	1790	61	114	124
MIN	18	33	33	55	38	33	32	27	27	20	17	17
AC-FT	30930	2620	26020	13490	2700	9130	8330	5910	13330	1650	1760	1690

08109800 EAST YEGUA CREEK NEAR DIME BOX, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	35.7	40.4	81.5	76.2	107	78.9	80.2	129	119	17.9	7.71	23.5
MAX	503	347	651	418	934	276	364	656	813	221	67.1	506
(WY)	1995	1975	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	37703		59271			
ANNUAL MEAN	103		162		66.1	
HIGHEST ANNUAL MEAN					245	1992
LOWEST ANNUAL MEAN					3.93	1971
HIGHEST DAILY MEAN	6490	Oct 17	6490	Oct 17	9490	May 24 1975
LOWEST DAILY MEAN	15	Sep 7	17	Aug 29	.00	Aug 1 1962
ANNUAL SEVEN-DAY MINIMUM	17	Jul 24	17	Sep 6	.00	Aug 1 1962
INSTANTANEOUS PEAK FLOW			9080	Oct 17	14000	May 24 1975
INSTANTANEOUS PEAK STAGE			12.98	Oct 17	13.91	May 24 1975
ANNUAL RUNOFF (AC-FT)	74780		117600		47910	
10 PERCENT EXCEEDS	70		222		80	
50 PERCENT EXCEEDS	25		40		9.1	
90 PERCENT EXCEEDS	19		21		.17	

e Estimated

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 mi².

PERIOD OF RECORD.--February 1966 to current year. Prior to October 1970, published as Somerville Reservoir.

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

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. Capacity table is based on Geological Survey topographic maps dated 1959. The lake was designed for flood control and water conservation. Satellite telemeter at station. Figures given herein represent total contents. Data regarding the dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	280.0	-
Design flood	274.5	1,028,800
Crest of spillway	258.0	507,500
Top of conservation pool	238.0	160,100
Lowest gated outlet (invert of 10-foot conduit)	206.0	200

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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, 344,500 acre-ft Oct. 24 (elevation, 250.41 ft); minimum, 143,900 acre-ft Oct. 14 (elevation, 236.54 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

230.0	83,100	246.0	268,800	256.0	460,300
236.0	138,200	248.0	301,600	258.0	507,500
237.0	148,900	250.0	336,900	259.0	532,300
240.0	184,000	252.0	375,000	260.0	557,900
243.0	223,900	254.0	416,100		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146000	317000	229200	271700	227300	172300	162500	160800	194500	174700	156000	156400
2	145700	314000	226800	271700	224800	170600	161100	160500	200700	173100	155700	156200
3	145400	310900	224500	270100	222100	169300	160100	160500	203800	171700	156100	156200
4	145200	308400	221800	267200	219400	167900	162600	160500	208200	170300	156400	156000
5	144900	306000	219300	264100	216400	166600	170100	160700	211700	169000	156600	155800
6	144400	303000	216800	261600	213800	165300	178800	160300	213400	167700	156500	155600
7	144100	299600	214900	258800	211200	165100	185400	160300	213000	166800	156500	155300
8	145400	297900	212700	255700	208300	164300	187600	164000	211200	166100	156400	155100
9	145000	295200	211200	253300	205800	164300	188100	164600	208900	165200	156200	154900
10	144900	292200	208900	250900	203300	162900	188800	165000	209600	164500	156100	154700
11	144800	289000	206300	247800	200400	161600	187200	165200	208300	163900	155900	154400
12	144600	285900	204300	248000	197700	160800	185500	165200	206600	163500	156100	154600
13	144300	282400	202700	249900	195100	171600	183800	164800	205400	162600	156200	155200
14	144100	280000	201700	253900	192700	175100	182300	164300	203300	162300	157300	155300
15	144200	277100	207400	258800	190600	178600	180600	163800	201900	162300	157600	155300
16	164400	274000	227900	260700	188700	179000	178800	163000	200900	162100	157500	155500
17	244500	271000	253000	260800	186900	180400	177500	162300	199300	161900	157800	155100
18	300900	267900	267500	259900	185400	181100	176100	162200	197500	161700	157800	155200
19	325100	264900	271700	257700	183900	180300	174600	161700	195600	161300	157800	155500
20	334700	262400	273100	255000	182300	179100	173000	161500	193800	161300	157500	155600
21	340200	259300	272100	252100	180600	177700	171300	161400	192000	161000	157700	156600
22	343000	256000	269900	249900	179100	177000	170100	161600	190100	160800	157500	157000
23	344300	253300	267100	246800	177500	174800	168200	161700	188100	160500	157400	156900
24	342800	250100	264100	243900	176000	173500	166400	161500	186400	160000	157400	156900
25	339800	247200	261400	241100	174600	172000	164700	161300	184000	159900	157300	156800
26	336300	244500	258200	240200	173100	170600	163200	161000	182400	159800	157100	156800
27	333100	241400	255400	239500	173200	169100	162400	160800	180200	159300	157100	156700
28	330000	238300	258300	237700	173200	167100	161900	160700	178700	158400	156900	156700
29	326700	235400	260500	235600	---	165900	161600	161100	176800	157400	156800	156600
30	323700	232200	264700	232600	---	164500	161400	173200	175700	156700	156400	156500
31	320500	---	269600	230100	---	163600	---	180800	---	156100	156400	---
MAX	344300	317000	273100	271700	227300	181100	188800	180800	213400	174700	157800	157000
MIN	144100	232200	201700	230100	173100	160800	160100	160300	175700	156100	155700	154400
(+)	249.09	243.58	246.05	243.43	239.12	238.30	238.11	239.74	239.32	237.65	237.67	237.68
(@)	+174200	-88300	+37400	-39500	-56900	-9600	-2200	+19400	-5100	-19600	+300	+100

CAL YR 1994 MAX 344300 MIN 144100 (@) +122200
WTR YR 1995 MAX 344300 MIN 144100 (@) +10200

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

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 mi².

PERIOD OF RECORD.--October 1962 to current year.
Water-quality records.--Sediment records: June 1966 to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 220.26 ft above sea level.

REMARKS.--Records poor. The city of Caldwell discharges sewage effluent into creek above station. Several observations of water temperature were made during the year. Rain gage at station. Satellite telemeter at station.

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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 17	0830	26,400	19.33	Jan. 13	0730	2,370	15.14
Dec. 16	1000	8,350	17.22	Apr. 6	1700	1,960	14.88

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	12	2.6	108	31	19	17	7.3	574	53	241	1.6
2	.00	11	4.3	57	27	16	e16	6.7	699	23	585	1.3
3	.00	8.2	4.5	45	24	14	14	6.1	609	10	259	1.4
4	.00	7.0	6.9	36	20	13	32	5.8	390	6.7	41	1.4
5	.00	18	10	30	18	13	477	5.9	67	5.1	20	1.2
6	.00	24	11	27	16	14	1580	6.0	35	4.4	12	1.3
7	.00	21	7.8	24	16	115	1080	6.5	24	3.8	7.1	1.2
8	.00	15	6.0	23	15	82	362	50	17	3.4	5.3	1.4
9	.00	9.6	6.8	21	15	39	89	81	14	3.0	26	1.3
10	5.3	6.2	6.7	20	15	25	51	101	5.6	2.8	16	1.3
11	8.0	5.0	6.1	19	14	18	35	16	44	2.6	7.7	1.3
12	9.4	4.4	8.4	357	14	15	27	22	70	2.3	5.3	1.3
13	9.4	5.2	9.0	2050	15	457	22	19	65	2.1	4.3	1.5
14	7.2	4.2	8.2	1720	16	1040	15	15	39	1.9	5.4	1.6
15	6.2	3.4	150	1380	17	593	17	12	16	1.8	18	1.6
16	532	6.9	5210	323	20	196	15	11	19	1.8	9.9	1.8
17	18000	8.5	2330	88	21	84	14	e8.9	e19	1.6	6.2	1.9
18	4470	6.8	1400	71	19	54	15	e8.3	e12	1.6	4.6	2.1
19	2550	5.4	387	66	17	37	15	55	e7.7	1.5	3.9	1.6
20	1340	4.1	83	52	15	30	14	121	e5.6	1.2	3.2	3.3
21	256	3.4	53	42	13	25	16	93	5.3	1.1	2.8	33
22	74	2.7	41	34	12	22	20	24	4.9	1.7	2.5	239
23	47	2.4	32	29	11	20	9.9	14	4.7	1.5	2.5	27
24	35	2.4	26	26	11	18	11	11	4.3	1.2	2.4	11
25	27	2.8	22	24	9.8	17	28	8.8	3.9	.99	6.0	8.2
26	22	2.6	20	176	10	15	18	7.5	3.5	.87	5.3	5.4
27	19	2.0	18	948	11	14	13	6.4	3.2	.76	4.0	4.0
28	18	2.4	178	305	17	14	11	6.1	2.9	.60	3.1	3.2
29	16	2.3	887	79	---	13	9.0	6.5	2.9	.76	2.6	3.1
30	15	2.3	703	50	---	14	8.3	219	3.5	.97	2.2	2.9
31	13	---	397	39	---	17	---	347	---	1.8	1.9	---
TOTAL	27479.50	211.2	12035.3	8269	459.8	3063	4051.2	1307.8	2771.0	145.85	1316.2	368.2
MEAN	886	7.04	388	267	16.4	98.8	135	42.2	92.4	4.70	42.5	12.3
MAX	18000	24	5210	2050	31	1040	1580	347	699	53	585	239
MIN	.00	2.0	2.6	19	9.8	13	8.3	5.8	2.9	.60	1.9	1.2
AC-FT	54510	419	23870	16400	912	6080	8040	2590	5500	289	2610	730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	55.3	38.5	86.0	93.9	124	81.7	114	135	125	8.08	4.88	21.2
MAX	886	350	646	687	948	357	692	451	841	61.5	42.5	428
(WY)	1995	1975	1992	1991	1992	1979	1977	1992	1968	1968	1995	1974
MIN	.000	.000	.000	.19	1.20	.44	.23	1.16	.060	.000	.000	.000
(WY)	1964	1968	1968	1971	1967	1971	1972	1978	1971	1964	1964	1963

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	43009.71		61478.05			
ANNUAL MEAN	118		168		73.6	
HIGHEST ANNUAL MEAN					237	1992
LOWEST ANNUAL MEAN					1.42	1971
HIGHEST DAILY MEAN	18000	Oct 17	18000	Oct 17	18000	Oct 17 1994
LOWEST DAILY MEAN	.00	Jul 6	.00	Oct 1	.00	Jun 16 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 6	.00	Oct 1	.00	Jun 16 1963
INSTANTANEOUS PEAK FLOW			26400	Oct 17	26400	Oct 17 1994
INSTANTANEOUS PEAK STAGE			19.33	Oct 17	19.33	Oct 17 1994
ANNUAL RUNOFF (AC-FT)	85310		121900		53320	
10 PERCENT EXCEEDS	41		227		77	
50 PERCENT EXCEEDS	2.8		14		2.6	
90 PERCENT EXCEEDS	.00		1.6		.00	

e Estimated

08110200 BRAZOS RIVER AT WASHINGTON, TX

LOCATION.--Lat 30°21'40", long 96°09'18", Washington County, Hydrologic Unit 12070101, near right bank beneath floor of bridge on State Highway 105, 2.4 mi upstream from Navasota River, 2.5 mi north of Washington, and at mile 228.8.

DRAINAGE AREA.--41,192 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--November 1965 to September 1983. Stage only site October 1983 to September 1995 (discontinued). Gage heights collected in this vicinity since 1915 are contained in reports of the National Weather Service.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 140.13 ft above sea level.

REMARKS.--Records good. Backwater at times from the Navasota River. There are many diversions above station for irrigation, municipal, industrial, and oil field operations. At times, flow affected by five upstream reservoirs with a combined capacity of 4,955,000 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 mi² above station. Satellite telemeter at station.

AVERAGE DISCHARGE.--17 years (1965-83), 5,153 ft³/s (3,733,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 82,500 ft³/s Jan. 24, 1968 (gage height, 33.60 ft); maximum gage height, 48.00 ft Dec. 26, 1991; minimum discharge, 170 ft³/s Oct. 22, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1856, 62.0 ft Dec. 6, 1913, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 37.50 ft Oct. 18 at 0300 hours; minimum, 2.75 ft Oct. 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.96	6.44	7.21	14.61	8.20	---	8.22	8.60	18.99	7.22	11.12	---
2	2.76	6.62	7.76	12.69	8.05	---	8.40	7.80	18.27	7.43	15.01	---
3	3.01	6.40	7.66	11.50	7.99	---	8.09	7.27	19.06	6.52	17.27	---
4	3.15	6.43	6.87	11.62	7.81	---	9.48	7.49	15.51	5.83	19.27	---
5	3.37	6.34	6.50	11.54	7.56	---	11.91	7.12	12.44	5.58	20.72	---
6	3.35	6.81	6.23	11.74	7.00	---	15.64	6.42	11.17	5.44	21.78	---
7	3.77	7.80	5.99	11.73	6.85	---	17.60	6.27	10.68	5.56	21.61	---
8	3.55	7.87	5.94	11.57	6.79	---	16.87	15.00	11.36	5.13	20.18	---
9	8.23	6.77	5.93	11.07	6.79	---	16.14	18.05	11.17	4.71	17.98	---
10	9.42	6.29	6.76	10.86	6.86	7.36	16.09	21.86	10.79	4.97	17.42	---
11	7.60	6.06	5.98	10.53	7.23	7.08	15.82	22.40	9.85	4.87	17.17	---
12	4.81	5.83	7.91	10.16	6.57	6.54	17.96	22.18	9.77	4.60	15.78	---
13	3.85	5.82	7.19	15.82	6.40	11.26	18.26	22.75	13.97	5.03	12.86	---
14	3.46	5.77	6.74	15.09	6.12	23.03	16.00	22.74	14.90	5.34	11.12	---
15	3.22	5.61	8.84	16.20	6.77	26.03	15.46	21.01	17.68	5.97	10.52	---
16	14.47	5.38	25.39	14.60	---	21.20	14.39	20.40	17.85	6.10	10.16	---
17	37.40	5.26	28.32	14.14	---	19.37	13.82	19.31	15.84	4.97	9.23	---
18	36.31	6.01	26.51	13.08	---	19.13	13.75	18.55	12.63	4.30	8.10	---
19	31.26	6.12	21.87	13.02	---	17.20	13.49	17.93	11.02	4.06	7.35	---
20	24.56	5.69	18.41	14.09	---	15.50	13.21	16.76	10.73	3.55	6.98	---
21	18.94	5.98	16.17	14.04	---	15.95	13.20	13.59	10.36	3.65	6.85	---
22	15.00	6.59	16.12	12.34	---	15.72	14.30	11.11	10.15	3.79	6.79	6.71
23	12.43	6.56	15.02	10.91	---	14.25	13.92	9.88	8.90	3.81	6.37	5.86
24	10.10	6.95	13.82	10.83	---	13.26	16.13	9.27	8.43	3.83	6.01	6.07
25	8.73	8.30	12.57	10.51	---	12.27	16.66	8.67	8.28	3.65	6.09	6.13
26	7.09	11.20	10.83	12.73	---	11.20	15.40	7.90	8.21	4.03	6.04	6.30
27	6.37	11.28	10.19	12.38	---	9.66	13.89	7.77	7.05	3.23	6.01	6.23
28	8.03	9.33	11.08	10.98	---	8.99	12.56	7.57	6.72	3.60	5.55	5.87
29	6.97	8.91	16.60	10.27	---	9.34	12.04	8.17	6.95	4.61	5.11	5.25
30	6.89	7.82	19.67	9.64	---	9.21	10.68	10.08	7.37	4.58	5.10	4.96
31	6.43	---	17.62	9.22	---	8.46	---	12.83	---	4.47	4.98	---
MAX	37.40	11.28	28.32	16.20	---	---	18.26	22.75	19.06	7.43	21.78	---
MIN	2.76	5.26	5.93	9.22	---	---	8.09	6.27	6.72	3.23	4.98	---

08110325 NAVASOTA RIVER ABOVE GROESBECK, TX

LOCATION.--Lat 31°34'27", long 96°31'14", Limestone County, Hydrologic Unit 12070103, in city of Groesbeck at water supply pumping plant, 1.2 mi downstream from Springfield Lake, 3.7 mi north of Groesbeck, and 161.4 mi upstream from mouth.

DRAINAGE AREA.--239 mi².

PERIOD OF RECORD.--July 1975 to May 1978 (periodic gage-height and low-flow measurements only), June 1978 to current year.
Water-quality records.--Chemical analyses: November 1967 to June 1989.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 396.65 ft above sea level.

REMARKS.--Records good. Flow is partly regulated by Lake Mexia 7.4 mi upstream (capacity, 9,400 acre-ft) and by Springfield Lake 1.2 mi upstream (approximate capacity, 3,100 acre-ft). 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 washwater and sewage effluent into river downstream from gage. Raingage at station. Satellite telemeter at station.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	116	15	24	3.7	10	33	.03	6340	.00
2	.00	.00	.00	54	12	25	2.7	5.4	26	.02	7450	.00
3	.00	.00	.00	40	14	24	2.0	4.3	20	.05	2750	.00
4	.00	.00	.00	29	7.4	18	3.9	4.6	14	.01	762	.00
5	.00	.31	.00	18	5.3	16	6.0	3.9	9.1	.05	190	.00
6	.00	.01	.00	19	3.8	12	24	457	5.8	.08	66	.00
7	.00	.00	.00	13	2.8	25	118	3470	3.2	.07	39	.00
8	.05	.00	.00	8.7	1.9	12	95	4310	2.2	.05	25	.00
9	.00	.00	.00	6.7	1.2	8.4	52	4820	e2.0	.02	15	.00
10	.00	.01	.01	5.3	1.2	6.5	40	2190	e4.0	.02	8.9	.00
11	.00	.01	.00	5.1	3.5	5.6	36	395	e250	.00	5.5	.00
12	.00	.00	.00	7.5	2.4	4.9	79	112	e310	.00	3.4	.00
13	.00	.00	.00	179	1.8	1300	76	55	e150	.00	2.1	.00
14	.00	.00	.01	515	2.3	3430	44	42	e70	.00	1.1	.00
15	.00	.00	23	197	2.8	1490	29	30	e33	.00	.56	.00
16	.00	.02	1790	78	3.7	348	19	18	e15	.00	.23	.00
17	.00	.02	1780	55	2.3	134	12	11	e7.2	.04	.12	.00
18	.01	.00	524	142	1.4	74	23	9.9	e4.3	.06	.03	.00
19	.02	.00	143	390	1.5	48	21	20	3.3	.07	.04	.00
20	.00	.00	66	331	1.8	34	20	30	2.3	.04	.04	.00
21	.04	.00	44	139	1.2	24	14	24	1.2	.01	.03	.03
22	.07	.00	32	79	.75	18	14	15	.79	.00	.04	.01
23	.02	.00	23	52	.43	15	66	8.6	.73	.00	.02	.00
24	.00	.00	15	33	.68	11	507	5.2	.36	.00	.03	.00
25	.01	.00	10	24	1.2	7.3	254	3.6	.25	.00	.01	.00
26	.00	.00	6.8	23	5.0	7.4	86	2.4	.19	.00	.02	.00
27	.00	.00	5.0	49	23	6.7	51	2.8	.00	.00	.00	.00
28	.00	.00	100	58	27	5.3	31	2.1	.02	.00	.02	.00
29	.00	.01	1090	43	---	4.9	20	13	.03	.00	.00	.00
30	.00	.00	809	29	---	4.6	13	27	.04	.00	.00	.00
31	.00	---	271	19	---	4.2	---	34	---	533	.00	---
TOTAL	0.22	0.39	6731.82	2757.3	147.36	7147.8	1762.3	16135.8	968.01	533.62	17659.19	0.04
MEAN	.007	.013	217	88.9	5.26	231	58.7	521	32.3	17.2	570	.001
MAX	.07	.31	1790	515	27	3430	507	4820	310	533	7450	.03
MIN	.00	.00	.00	5.1	.43	4.2	2.0	2.1	.00	.00	.00	.00
AC-FT	.4	.8	13350	5470	292	14180	3500	32010	1920	1060	35030	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

MEAN	39.2	42.3	200	88.1	247	181	75.6	333	117	4.63	39.1	.75
MAX	347	450	1154	518	909	1109	541	1384	554	51.4	570	5.24
(WY)	1982	1986	1992	1991	1986	1990	1979	1979	1981	1981	1995	1979
MIN	.000	.013	.075	.35	.65	.72	.61	.19	.13	.009	.000	.000
(WY)	1993	1995	1990	1989	1981	1981	1981	1984	1984	1984	1994	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1978 - 1995	
ANNUAL TOTAL	30662.32		53843.85			
ANNUAL MEAN	84.0		148		114	
HIGHEST ANNUAL MEAN					270	1992
LOWEST ANNUAL MEAN					17.8	1984
HIGHEST DAILY MEAN	6100	Feb 23	7450	Aug 2	17300	May 11 1979
LOWEST DAILY MEAN	.00	Jul 13	.00	Oct 1	.00	Jun 14 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 13	.00	Oct 1	.00	Jun 14 1978
INSTANTANEOUS PEAK FLOW			10000	Aug 1	27200	May 11 1979
INSTANTANEOUS PEAK STAGE			10.72	Aug 1	15.06	May 11 1979
ANNUAL RUNOFF (AC-FT)	60820		106800		82860	
10 PERCENT EXCEEDS	78		124		104	
50 PERCENT EXCEEDS	.33		2.3		1.5	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08110430 BIG CREEK NEAR FREESTONE, TX

LOCATION.--Lat 31°30'24", long 96°19'28", Limestone County, Hydrologic Unit 12070103, 12 ft to left and 25 ft downstream from left end of bridge on State Highway 164, 5.1 mi southwest of Freestone, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--97.2 mi².

PERIOD OF RECORD.--July 1975 to June 1978 (periodic gage-height and low-flow measurements only), July 1978 to current year.

REVISED RECORDS.--WDR TX-92-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 362.94 ft above sea level. Apr. 25, 1985, to Aug. 17, 1987, at site 62 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Several observations of water temperature were made during the year. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1950, 19 ft in April 1957, from information by local residents.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 5	2130	844	12.78	Feb. 27	0200	625	12.18
Dec. 16	1900	1660	13.30	Mar. 14	0030	1600	13.26
Dec. 29	1430	1120	12.94	May 9	1800	735	12.59
Jan. 13	0930	1740	13.35	July 31	1200	514	11.52

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.7	4.6	90	23	84	19	8.2	7.7	.16	279	.01
2	.00	2.5	4.2	60	21	44	16	7.0	7.8	.20	204	.01
3	.00	2.2	4.1	39	19	41	14	6.1	6.1	.17	47	.00
4	.00	3.7	4.1	29	18	45	14	6.9	4.3	.12	14	.00
5	.00	512	4.2	23	16	40	22	7.7	3.1	.43	8.3	.00
6	.00	580	4.3	21	15	35	42	7.3	2.6	1.4	5.7	.00
7	.00	153	5.5	22	15	66	38	9.4	2.2	3.4	4.1	.00
8	1.3	27	4.7	20	14	63	24	162	1.9	1.9	3.1	.00
9	.02	15	4.3	17	14	33	17	551	1.8	1.0	2.1	.00
10	1.5	17	6.9	17	15	23	14	522	1.6	.47	1.4	.00
11	.98	19	8.5	17	18	20	12	121	27	.21	.83	.00
12	.08	13	6.8	215	27	19	11	32	61	.10	.37	.00
13	.02	8.8	5.8	1550	21	527	9.6	21	16	.07	.22	.00
14	.00	7.3	7.1	805	21	1150	9.0	17	7.6	.05	.20	2.5
15	.00	6.4	697	368	32	514	9.0	14	4.4	.03	.35	2.0
16	.41	5.9	1510	94	30	235	9.0	11	3.0	.03	.54	.01
17	11	6.0	1130	52	23	161	9.1	9.6	2.2	.03	.29	.01
18	37	5.7	504	64	18	75	23	8.5	1.8	.02	.18	.02
19	111	5.5	162	184	17	45	46	7.2	1.5	.13	.18	1.5
20	23	5.4	57	136	16	34	22	6.0	.98	1.9	.14	3.8
21	133	5.7	39	52	14	28	16	5.2	.75	20	.12	56
22	196	5.5	31	38	13	24	15	4.7	.68	5.3	.07	74
23	139	4.9	24	36	13	22	81	4.5	.81	1.9	.17	13
24	22	4.6	20	29	27	21	137	4.1	.64	.73	.18	6.5
25	9.0	4.6	17	24	20	21	40	4.0	.42	.16	.08	4.3
26	7.5	4.9	15	81	187	20	20	4.0	.23	.07	.05	3.1
27	7.2	5.0	14	285	597	17	13	4.0	.22	.04	.04	1.4
28	5.0	4.9	170	161	337	15	11	3.7	.29	.03	.02	.61
29	4.0	4.8	817	58	---	18	9.3	3.8	.20	.02	.02	.34
30	3.5	4.9	639	35	---	25	7.5	4.8	.17	.13	.02	.21
31	3.0	---	290	27	---	23	---	6.5	---	285	.02	---
TOTAL	715.51	1447.9	6211.1	4649	1601	3488	729.5	1584.2	168.99	325.20	572.79	169.32
MEAN	23.1	48.3	200	150	57.2	113	24.3	51.1	5.63	10.5	18.5	5.64
MAX	196	580	1510	1550	597	1150	137	551	61	285	279	74
MIN	.00	2.2	4.1	17	13	15	7.5	3.7	.17	.02	.02	.00
AC-FT	1420	2870	12320	9220	3180	6920	1450	3140	335	645	1140	336

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

MEAN	26.2	30.6	97.2	57.7	95.9	77.1	40.6	107	44.9	6.05	2.97	4.08
MAX	205	150	609	262	274	209	192	335	159	62.0	18.5	33.4
(WY)	1985	1986	1992	1991	1992	1990	1979	1990	1989	1981	1995	1991
MIN	.000	.001	.056	.20	3.36	4.50	3.31	.26	.43	.012	.000	.000
(WY)	1990	1989	1981	1981	1981	1986	1984	1984	1984	1986	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1978 - 1995	
ANNUAL TOTAL	21231.04		21662.51			
ANNUAL MEAN	58.2		59.3		49.1	
HIGHEST ANNUAL MEAN					138	1992
LOWEST ANNUAL MEAN					4.58	1984
HIGHEST DAILY MEAN	1610	Feb 23	1550	Jan 13	8390	Dec 21 1991
LOWEST DAILY MEAN	.00	Aug 4	.00	Oct 1	.00	Sep 24 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 11	.00	Oct 1	.00	Sep 29 1983
INSTANTANEOUS PEAK FLOW			1740	Jan 13	17500	Dec 21 1991
INSTANTANEOUS PEAK STAGE			13.35	Jan 13	16.33	Dec 21 1991
ANNUAL RUNOFF (AC-FT)	42110		42970		35590	
10 PERCENT EXCEEDS	131		136		86	
50 PERCENT EXCEEDS	5.5		7.7		3.2	
90 PERCENT EXCEEDS	.01		.03		.00	

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX

LOCATION.--Lat 31°19'30", long 96°19'08", Leon County, Hydrologic Unit 12070103, in left end bypass pier of Sterling C. Robertson Dam on the Navasota River, 7.5 mi northwest of Marquez, and 124 mi upstream from mouth.

DRAINAGE AREA.--675 mi².

WATER-CONTENT RECORDS

PERIOD OF RECORD.--November 1978 to current year.

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

REMARKS.--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 sewage effluent into stream above lake. Satellite telemeter at station. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam	380.0	-
Design flood	370.0	334,735
Crest of spillway	369.6	327,760
Top of gates	365.0	253,905
Top of conservation pool	363.0	225,445
Concrete gated spillway	337.0	21,125
Lowest gated outlet (invert)	322.0	265

COOPERATION.--Records of daily lake elevations are obtained in cooperation with the Brazos River Authority. Area and capacity tables were furnished by the Brazos River Authority and are based on U.S. Geological Survey topographic maps.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 245,000 acre-ft Dec. 21, 1991 (elevation, 364.38 ft); minimum, 10,740 acre-ft Nov. 30, 1978, (elevation, 332.63 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 234,900 acre-ft Jan. 13, at 1200 hours (elevation, 363.67 ft); minimum, 193,000 acre-ft Oct. 7, at 1700 hours (elevation, 360.52 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

332	9,580	348	72,900	360	187,000
336	18,400	352	103,800	364	239,600
340	31,300	356	141,900	365	254,000
344	49,200				

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195300	201500	205800	225600	223800	226100	223800	225300	222100	217100	222000	212800
2	195100	201100	205800	224200	223000	225300	223400	224700	222000	216500	229400	212700
3	195300	201600	205800	223200	222400	224300	223700	225000	221900	215800	227600	212300
4	194700	201900	205700	222300	221900	223900	224300	225200	221700	215800	226700	211900
5	194100	205800	205700	221900	222000	223500	226000	225600	221600	216600	226000	211500
6	193700	207500	205600	223000	221700	222800	225400	224900	221200	216700	224500	211100
7	195500	207900	205600	222400	221900	225800	224600	227100	220900	216600	223000	211200
8	198200	207800	206000	222400	221500	223900	224500	231300	220700	216300	221100	211100
9	197700	209200	206600	222400	221500	223200	224300	232900	220500	216100	219400	210700
10	197300	208400	206100	222600	221700	222300	227800	232100	220100	215800	218600	210200
11	197000	208100	205600	222800	222400	221900	224900	226700	222100	215700	218300	209800
12	196800	207900	205700	229700	221700	221900	225000	224100	221700	215200	218200	209400
13	196700	207900	205100	232200	221900	229300	225200	223900	221700	214600	217800	209600
14	196500	208100	206600	227600	222100	228100	224600	223200	221600	214200	217700	209900
15	196500	208500	218200	226000	222900	226100	224900	222800	221300	214000	217300	209600
16	197800	208000	230300	224300	223100	224600	225000	222700	221200	213700	217100	209400
17	198300	207900	231000	223500	222400	223900	225400	223000	220900	213500	216900	210500
18	200100	207800	229300	223700	222300	223000	226300	222800	220700	213100	216600	210500
19	200700	207500	226700	223200	222300	222400	228500	222300	220500	212300	216600	212000
20	200900	207800	225000	223100	222300	223100	226300	222000	220200	212000	216300	212400
21	201700	207600	224100	222000	222300	223000	226000	221700	219800	211500	216100	217300
22	202900	207600	222400	223200	222000	223500	227600	221500	219700	211200	215800	217100
23	203000	207200	221700	221900	222100	223800	227000	221300	219400	210900	215300	217100
24	203300	207000	221700	222000	222400	223700	227400	221300	219200	210100	215200	216900
25	203700	206900	221700	222300	222400	223500	227200	221300	218800	209600	214800	217100
26	203100	204900	221700	224100	224600	224300	227200	221100	218300	209200	214500	216500
27	202900	207100	221900	225800	227400	224100	226700	220900	217900	208800	214100	216300
28	202600	206600	227200	226700	227800	223900	225400	220900	217700	208400	213800	216200
29	202500	206600	232400	226300	---	224100	225400	221500	217500	207900	213600	215800
30	202400	206200	230700	225200	---	223900	224500	222000	217500	209000	213500	216100
31	202400	---	227900	224100	---	224100	---	222000	---	213700	213100	---
MAX	203700	209200	232400	232200	227800	229300	228500	232900	222100	217100	229400	217300
MIN	193700	201100	205100	221900	221500	221900	223400	220900	217500	207900	213100	209400
(+)	361.24	361.54	363.17	362.89	363.16	362.89	362.92	362.74	362.41	362.12	362.07	362.30
(@)	+6900	+3800	+21,700	-3800	+3700	-3700	+400	-2500	-4500	-3800	-600	+3000

CAL YR 1994 MAX 232400 MIN 193700
WTR YR 1995 MAX 232900 MIN 193700

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

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical and biochemical analyses: January 1980 to current year.

311937096194601 - LAKE LIMESTONE SITE AR

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
14...	1130	1.00	236	7.5	10.5	10.1	91
14...	1132	10.0	236	7.5	10.5	10.1	91
14...	1134	20.0	236	7.5	10.5	10.1	91
14...	1136	30.0	236	7.5	10.5	10.1	91
14...	1138	37.0	236	7.5	10.5	10.0	90
APR							
21...	0952	1.00	233	7.4	20.0	7.8	87
21...	0954	10.0	234	7.3	20.0	7.6	85
21...	0956	20.0	234	7.2	20.0	7.5	84
21...	0958	30.0	234	7.1	19.5	6.6	73
21...	1000	38.0	234	7.1	19.0	5.5	60
AUG							
09...	1015	1.00	250	7.5	28.5	4.9	64
09...	1017	10.0	251	7.3	28.0	3.5	45
09...	1019	20.0	251	7.2	28.0	3.4	44
09...	1021	30.0	247	7.0	27.5	0.1	1
09...	1023	37.0	259	7.1	27.5	0.1	1

311941096191401 - LAKE LIMESTONE SITE AC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	RESERVOIR STORAGE (AC-FT)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)
FEB												
14...	1145	222000	1.00	238	7.4	11.0	0.58	10.0	93	69	16	21
14...	1147	--	10.0	238	7.4	11.0	--	10.0	93	--	--	--
14...	1149	--	20.0	237	7.4	10.5	--	10.0	91	--	--	--
14...	1151	--	30.0	237	7.4	10.5	--	10.0	91	--	--	--
14...	1153	--	44.0	237	7.4	10.5	--	9.9	91	69	17	21
APR												
21...	1006	226000	1.00	233	7.4	20.0	0.67	7.7	86	66	17	20
21...	1008	--	10.0	233	7.3	20.0	--	7.6	85	--	--	--
21...	1010	--	20.0	233	7.2	19.5	--	7.4	82	--	--	--
21...	1012	--	30.0	233	7.1	19.5	--	7.0	77	--	--	--
21...	1014	--	37.0	235	7.0	19.0	--	5.5	60	--	--	--
21...	1016	--	44.0	240	6.9	18.5	--	3.4	37	69	15	21
AUG												
09...	1034	219000	1.00	254	7.8	29.0	1.20	6.4	84	75	13	23
09...	1036	--	10.0	255	7.5	28.5	--	5.1	66	--	--	--
09...	1038	--	20.0	252	7.4	28.0	--	4.2	54	--	--	--
09...	1040	--	25.0	249	7.1	28.0	--	1.8	23	--	--	--
09...	1042	--	30.0	245	7.0	27.5	--	0.2	3	--	--	--
09...	1044	--	43.0	275	7.1	27.0	--	0	0	81	2	25

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX--Continued

311941096191401 - LAKE LIMESTONE SITE AC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
FEB												
14...	4.0	16	0.8	3.9	53	17	22	0.10	6.9	124	0.290	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	4.0	16	0.8	4.1	52	17	23	0.10	6.9	125	0.280	--
APR												
21...	3.9	16	0.9	4.5	49	18	24	0.20	5.5	123	0.250	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	0.300	--
21...	--	--	--	--	--	--	--	--	--	--	0.320	0.320
21...	4.0	16	0.8	4.3	54	18	26	0.10	7.3	131	0.270	0.270
AUG												
09...	4.3	17	0.9	4.5	62	17	24	0.20	4.2	132	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	0.040	0.040
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	4.5	16	0.8	5.0	79	14	23	0.20	8.5	148	--	--

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
14...	<0.010	0.290	0.290	<0.015	--	0.40	0.020	0.020	0.06	11	4
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<0.010	0.280	0.280	0.020	0.28	0.30	0.020	0.020	0.06	27	38
APR											
21...	<0.010	0.250	0.250	<0.015	--	0.40	0.010	0.010	0.03	15	7
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	<0.010	0.300	0.300	0.020	0.38	0.40	0.020	0.020	0.06	30	30
21...	0.020	0.340	0.340	0.030	0.37	0.40	0.020	0.020	0.06	20	<10
21...	0.030	0.300	0.300	0.140	0.36	0.50	0.020	0.020	0.06	64	240
AUG											
09...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	6	14
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	<0.010	--	<10	40
09...	0.030	0.070	0.070	0.040	0.26	0.30	0.010	0.010	0.03	150	350
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<0.010	--	<0.050	0.760	0.44	1.2	0.170	0.180	0.55	820	2300

312458096205101 - LAKE LIMESTONE SITE BC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
FEB												
14...	1210	1.00	212	7.3	10.5	0.46	9.9	91	60	15	18	3.7
14...	1212	10.0	214	7.3	10.5	--	9.8	90	--	--	--	--
14...	1214	20.0	216	7.3	10.5	--	9.8	90	--	--	--	--
14...	1216	27.0	215	7.4	10.5	--	9.8	90	60	14	18	3.7
APR												
21...	1040	1.00	237	7.5	21.5	0.61	7.8	90	69	18	21	4.0
21...	1042	10.0	236	7.5	21.0	--	7.6	87	--	--	--	--
21...	1044	20.0	236	7.3	21.0	--	6.9	79	--	--	--	--
21...	1046	28.0	239	7.1	21.0	--	5.6	64	69	15	21	4.0
AUG												
09...	1106	1.00	242	8.4	30.0	0.80	6.5	87	74	15	23	4.1
09...	1108	10.0	240	8.1	30.0	--	5.5	74	--	--	--	--
09...	1110	20.0	239	7.7	29.5	--	4.2	56	--	--	--	--
09...	1112	26.0	216	7.1	29.0	--	0.2	3	67	5	21	3.6

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX--Continued

312458096205101 - LAKE LIMESTONE SITE BC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
FEB											
14...	14	0.8	4.2	45	15	21	0.10	7.9	112	0.300	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	15	0.8	4.0	46	15	21	0.10	7.7	114	0.300	0.300
APR											
21...	16	0.8	4.2	51	18	26	0.10	4.2	125	0.050	0.050
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	0.080	--
21...	16	0.8	4.3	54	18	25	0.10	5.6	127	0.070	0.070
AUG											
09...	16	0.8	4.9	59	15	23	0.20	5.2	127	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	12	0.6	4.9	62	12	17	0.20	8.3	117	--	--

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB											
14...	<0.010	0.300	0.300	0.040	0.36	0.40	<0.010	0.030	0.09	28	2
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	0.010	0.310	0.310	0.040	0.36	0.40	0.020	0.020	0.06	35	4
APR											
21...	0.010	0.060	0.060	0.030	0.37	0.40	<0.010	<0.010	--	11	6
21...	--	--	--	--	--	--	--	--	--	--	--
21...	<0.010	0.080	0.080	0.040	0.36	0.40	0.020	<0.010	--	20	20
21...	0.010	0.080	0.080	0.120	0.38	0.50	<0.010	0.010	0.03	65	130
AUG											
09...	<0.010	--	<0.050	<0.015	--	0.30	<0.010	0.010	0.03	<3	10
09...	<0.010	--	<0.050	<0.015	--	0.30	0.030	0.020	0.06	<10	40
09...	<0.010	--	<0.050	0.050	0.35	0.40	0.020	0.020	0.06	10	240
09...	<0.010	--	<0.050	0.140	0.36	0.50	0.030	0.040	0.12	28	410

312625096205901 - LAKE LIMESTONE SITE CC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB							
14...	1240	1.00	206	7.2	10.0	9.9	88
14...	1242	10.0	207	7.3	10.0	9.9	88
14...	1244	17.0	208	7.3	10.0	9.8	87
APR							
21...	1118	1.00	241	7.9	22.0	8.2	95
21...	1120	10.0	258	7.4	21.5	6.6	76
21...	1122	19.0	258	7.4	21.5	6.4	74
AUG							
09...	1124	1.00	247	8.7	30.5	7.0	94
09...	1126	10.0	247	8.5	30.0	6.2	83
09...	1128	17.0	249	8.2	30.0	5.2	70

08110470 LAKE LIMESTONE NEAR MARQUEZ, TX--Continued

312622096224201 - LAKE LIMESTONE SITE DC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB							
14...	1255	1.00	208	7.3	9.5	10.0	88
14...	1257	10.0	214	7.3	9.5	10.0	88
14...	1259	19.0	215	7.3	9.5	10.0	88
APR							
21...	1100	1.00	242	7.7	21.5	8.2	94
21...	1102	10.0	241	7.6	21.0	7.8	89
21...	1104	17.0	242	7.5	21.0	7.5	85
AUG							
09...	1142	1.00	193	8.3	31.0	6.8	93
09...	1144	10.0	154	7.2	29.0	3.5	46
09...	1146	18.0	160	7.0	28.0	0.2	3

312726096240001 - LAKE LIMESTONE SITE EC

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (uS/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
FEB												
14...	1305	1.00	209	7.3	9.5	0.27	10.2	90	66	12	21	3.3
14...	1307	13.0	211	7.3	9.0	--	9.9	86	66	12	21	3.3
APR												
21...	1138	1.00	295	7.6	23.0	0.46	7.2	85	88	15	28	4.3
21...	1140	6.00	282	7.4	22.0	--	6.1	71	--	--	--	--
21...	1142	13.0	282	7.4	22.0	--	5.8	67	85	14	27	4.2
AUG												
09...	1158	1.00	144	7.6	31.5	0.50	5.9	81	54	2	18	2.3
09...	1200	4.00	141	7.3	30.5	--	4.4	59	--	--	--	--
09...	1202	6.00	142	7.3	30.5	--	3.9	53	--	--	--	--
09...	1204	12.0	144	7.2	30.5	--	3.0	41	55	0	18	2.4

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
FEB											
14...	13	0.7	3.4	54	14	17	0.10	9.4	115	0.240	0.240
14...	13	0.7	3.8	54	14	17	0.10	9.4	115	0.220	0.220
APR											
21...	19	0.9	4.3	73	22	27	0.20	1.8	150	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	19	0.9	4.3	71	20	27	0.10	2.2	146	--	--
AUG											
09...	5.0	0.3	4.9	53	6.0	5.6	0.10	13	87	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	5.2	0.3	4.9	56	5.9	5.5	0.10	14	90	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
FEB											
14...	0.020	0.260	0.260	0.120	0.38	0.50	0.040	0.040	0.12	32	3
14...	0.010	0.230	0.230	0.110	0.39	0.50	0.040	0.040	0.12	41	3
APR											
21...	<0.010	--	<0.050	0.020	0.38	0.40	0.020	0.020	0.06	25	18
21...	--	--	--	--	--	--	--	--	--	--	--
21...	<0.010	--	<0.050	0.070	0.43	0.50	0.020	0.020	0.06	36	54
AUG											
09...	<0.010	--	<0.050	<0.015	--	0.50	0.100	0.100	0.31	44	19
09...	<0.010	--	<0.050	<0.015	--	0.40	0.100	0.110	0.34	50	<10
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<0.010	--	<0.050	0.060	0.44	0.50	0.110	0.120	0.37	71	72

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 mi northeast of Easterly, and 105.7 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

PERIOD OF RECORD.--March 1924 to current year.
Water-quality records.--Chemical analyses: December 1941 to September 1947, February 1966 to August 1985. Sediment records: October 1968 to September 1973.

REVISED RECORDS.--WSP 898: 1924, 1926-27, 1928(M), 1929-30, 1931(M). WSP 1512: 1932(M), 1936. WDR TX-76-2: Drainage area. WDR TX-78-2: 1974(M), 1977.

GAGE.--Water-stage recorder. Datum of gage is 271.46 ft above sea level. Prior to June 11, 1932, nonrecording gage at railroad bridge 1.0 mi downstream at 19.86-foot higher datum. June 11, 1932, to Sept. 30, 1978, water-stage recorder 46 ft upstream at 5.00-foot higher datum.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow is largely regulated by Lake Mexia (capacity, 9,400 acre-ft) and Lake Limestone (station 08110470). There are numerous diversions above station for irrigation, municipal supply, and oil field operation. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-60), 406 ft³/s (5.70 in/yr), 294,100 acre-ft/yr.

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1925-60).--Maximum discharge, 60,300 ft³/s May 2, 1944 (gage height, 27.13 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1845, 29 ft in June 1899, from information by local residents (discharge, 90,000 ft³/s), from rating curve extended above 60,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	15	12	4150	428	1100	48	119	36	13	924	12
2	8.8	24	12	2430	423	799	45	38	38	13	1870	11
3	9.0	14	13	1070	418	597	42	30	36	13	4600	12
4	9.1	13	13	731	418	443	46	29	31	12	12000	11
5	8.5	20	14	344	194	435	136	29	25	13	6390	11
6	7.9	70	14	78	68	426	1100	29	22	15	2330	10
7	8.2	79	15	63	60	520	1780	35	20	13	1010	9.9
8	342	33	15	58	57	934	982	733	19	14	805	10
9	169	25	16	54	55	554	249	2700	20	11	777	10
10	62	22	22	55	56	441	87	7390	19	10	746	9.9
11	28	19	30	61	66	414	68	9010	34	9.1	208	9.7
12	21	16	e20	187	77	170	57	6370	38	7.7	39	9.7
13	14	15	e15	2600	73	634	45	3200	36	26	26	9.7
14	12	15	e10	13200	74	2720	41	905	27	72	21	9.7
15	12	15	e1600	6980	81	10200	43	475	23	74	19	11
16	17	15	e6500	3210	82	6580	42	138	21	74	18	11
17	102	15	e3800	1610	76	3970	41	59	19	76	17	11
18	131	15	e2600	1040	67	1870	49	55	17	78	17	11
19	89	15	e4000	1030	62	862	99	50	16	80	15	9.9
20	50	15	2760	963	59	211	152	39	15	80	15	23
21	30	16	1730	888	56	104	156	29	14	69	15	57
22	23	15	929	835	54	84	148	26	13	65	14	111
23	39	14	765	259	e55	73	165	24	13	64	13	152
24	24	13	181	96	e55	64	200	22	13	63	13	87
25	19	13	57	86	e50	59	356	21	13	65	14	34
26	22	13	47	105	e50	55	368	21	13	68	12	23
27	19	14	44	264	e400	51	358	27	12	68	13	17
28	16	13	136	553	e1200	47	356	30	12	68	13	14
29	15	13	1250	513	---	46	347	29	13	67	13	13
30	14	12	2740	459	---	49	209	29	14	69	12	12
31	13	---	5050	437	---	50	---	28	---	238	12	---
TOTAL	1343.2	606	34410	44409	4814	34562	7815	31719	642	1607.8	31991	742.5
MEAN	43.3	20.2	1110	1433	172	1115	260	1023	21.4	51.9	1032	24.7
MAX	342	79	6500	13200	1200	10200	1780	9010	38	238	12000	152
MIN	7.9	12	10	54	50	46	41	21	12	7.7	12	9.7
AC-FT	2660	1200	68250	88090	9550	68550	15500	62910	1270	3190	63450	1470

08110500 NAVASOTA RIVER NEAR EASTERLY, TX--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	207	298	675	526	709	623	627	973	512	68.8	70.8	121
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	15.1	17.8	8.36	6.88	1.88	.37	.81	1.20
(WY)	1964	1964	1964	1964	1967	1972	1972	1972	1971	1964	1963	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995#	
ANNUAL TOTAL	118826.2		194661.5			
ANNUAL MEAN	326		533		450	
HIGHEST ANNUAL MEAN					1172	1992
LOWEST ANNUAL MEAN					15.4	1963
HIGHEST DAILY MEAN	9060	Feb 24	13200	Jan 14	57400	Dec 22 1991
LOWEST DAILY MEAN	7.9	Oct 6	7.7	Jul 12	.19	Aug 11 1980
ANNUAL SEVEN-DAY MINIMUM	8.6	Oct 1	8.6	Oct 1	.26	Jul 12 1964
INSTANTANEOUS PEAK FLOW			16400	Jan 14	61800	Dec 22 1991
INSTANTANEOUS PEAK STAGE			22.63	Jan 14	27.22	Dec 22 1991
ANNUAL RUNOFF (AC-FT)	235700		386100		325700	
10 PERCENT EXCEEDS	775		1080		964	
50 PERCENT EXCEEDS	31		46		28	
90 PERCENT EXCEEDS	13		12		2.6	

e Estimated
Period of regulated streamflow

08111000 NAVASOTA RIVER NEAR BRYAN, TX
(Flood-hydrograph partial-record station)

LOCATION.--Lat 30°52'10", long 96°11'32", Brazos-Madison County line, Hydrologic Unit 12070103, on right bank at upstream side of bridge on U.S. Highway 190, 2.5 mi upstream from Shepard Creek, 17 mi northeast of Bryan, and 68.4 mi upstream from mouth.

DRAINAGE AREA.--1,454 mi².

PERIOD OF RECORD.--January 1951, to September 1994, (continuous-record station); October 1994 to current year (flood hydrograph partial-record station).
Water-quality records.--Chemical and biochemical analyses: October 1958, to September 1981. Sediment records: October 1973, to September 1981.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 224.64 ft above sea level of 1929.

REMARKS.--Records fair. Beginning Oct. 1, 1994, only daily discharges greater than 750 ft³/s are published. Flow partially regulated by Lake Mexia since June 1961, and now largely regulated by Lake Limestone (station 08110470) since October 1978. There are numerous diversions above station for irrigation, municipal, and oil field operations. Satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--27 years (water years 1952-78), 557 ft³/s (403,400 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEAR 1952-78).--Maximum discharge, 38,200 ft³/s Apr. 29, 1966, (gage height, 16.57 ft); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1840, that of Dec. 23, 1991; next highest stage was about 19.5 ft in June 1899, from information by local residents.

EXTREMES FOR PERIOD OF RECORD.--Maximim gage height, 19.97 ft Dec. 23, 1991, 66,600 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.32 ft Jan. 16 at 1300 hours, 11,600 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	1820	---	---	---	---	---	---	---	---
2	---	---	---	2820	---	926	---	---	---	---	---	---
3	---	---	---	3850	---	1070	---	---	---	---	---	---
4	---	---	---	3570	---	956	---	---	---	---	1030	---
5	---	---	---	2720	---	---	---	---	---	---	1320	---
6	---	---	---	1860	---	---	1490	---	---	---	2180	---
7	---	---	---	920	---	---	1410	---	---	---	4780	---
8	---	---	---	---	---	---	1480	---	---	---	4400	---
9	---	---	---	---	---	---	1840	---	---	---	3330	---
10	---	---	---	---	---	929	1850	863	---	---	2340	---
11	---	---	---	---	---	755	1070	1280	---	---	e1610	---
12	---	---	---	---	---	---	---	2010	---	---	e1140	---
13	---	---	---	1690	---	973	---	4310	---	---	e825	---
14	---	---	---	1890	---	1690	---	6320	---	---	---	---
15	---	---	---	2630	---	1390	---	4690	---	---	---	---
16	---	---	3340	10000	---	2000	---	3360	---	---	---	---
17	992	---	3340	7460	---	6420	---	2040	---	---	---	---
18	1180	---	2300	4720	---	6660	---	1020	---	---	---	---
19	830	---	2510	3450	---	4640	---	---	---	---	---	---
20	---	---	3780	2540	---	3420	---	---	---	---	---	---
21	---	---	5000	1930	---	2290	---	---	---	---	---	---
22	---	---	3880	1530	---	1040	---	---	---	---	---	---
23	---	---	3150	1270	---	---	---	---	---	---	---	---
24	---	---	2290	1010	---	---	---	---	---	---	---	---
25	---	---	1550	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	1060	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	831	---	---	---	---	---	---	---	---	---
31	---	---	1240	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated

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 mi², approximately, of which 9,566 mi² probably is non-contributing.

PERIOD OF RECORD.--October 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 Sept. 30, 1963, nonrecording gage at site 1,500 ft downstream at datum 10.00 ft higher. Oct. 1, 1964, to July 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.

REMARKS.--Records good. There are many diversions above station for irrigation, municipal and industrial uses, and for oil field operations. At times, flow is affected by reservoirs on the Brazos River above Waco (see station 08096500) and by reservoirs on the Lampasas and Little Rivers above Cameron. For statement regarding regulation by National Resource Conversation Service floodwater-retarding structures, see station 08110200. Satellite telemeter at station.

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 July 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	4540	5710	20500	8230	4370	6920	9120	16100	5180	2940	2430
2	1320	4390	4950	15700	7160	3800	6440	7150	23900	5040	8540	2560
3	1100	4520	5640	12700	6580	3770	6370	6130	23000	5250	15200	2970
4	1170	4350	5730	11100	6410	3980	7080	5560	22800	4530	19200	2910
5	1260	4540	4810	10900	6100	4290	11200	5510	17200	3980	23000	2690
6	1430	4560	4290	10900	5800	4630	15600	5190	12400	3660	26000	2440
7	1460	4740	4030	11300	5230	6030	19300	4650	10100	3490	28200	2350
8	1830	5630	3870	11500	4990	5880	20800	5540	9270	3520	27900	2120
9	1880	5790	3790	11400	4900	4420	19500	13900	9710	3190	24500	2130
10	4080	4780	4090	10700	4800	4290	18100	21500	9510	2870	20900	2210
11	6570	4210	5100	10100	4800	5320	17800	28200	9210	2920	19900	1970
12	5500	3990	4260	9440	5040	5270	17700	29400	8270	2910	19300	1780
13	3470	3750	5170	10100	4590	8220	20900	29700	8710	2680	16700	1670
14	2300	3670	5230	16000	4340	17700	21000	30900	12700	2860	12700	1750
15	1880	3620	4670	16600	4130	33100	17700	30200	15500	3190	10400	2450
16	1860	3480	16400	18200	4510	37300	16200	27100	19700	3550	9480	1840
17	71700	3280	39800	16500	4570	28500	14600	25700	19900	3800	8850	1420
18	103000	3140	46400	19400	4050	24700	13400	23500	16300	3170	e8100	1270
19	89200	3560	42200	17300	3630	23500	13200	22300	11800	2490	e7300	1270
20	79200	3880	32200	15100	3650	19900	12800	21600	9510	2220	e6100	1600
21	45900	3550	24800	16200	3690	17700	12400	19100	8950	1930	e5000	2410
22	31100	3720	20700	15800	3580	18500	12600	14400	8560	1820	4390	3020
23	21400	4190	19500	13300	3410	18100	13800	10700	8200	1940	4320	4550
24	15200	4280	17400	11100	3200	15900	13800	8730	7070	1980	4080	4140
25	11400	4610	15300	10400	3220	14100	17200	7720	6250	1990	3760	4110
26	8830	5880	13300	12700	3160	12300	18100	6800	6040	1900	3740	4160
27	6490	9010	11100	22600	3040	10400	15900	5830	5880	2120	3650	4080
28	5290	9510	10100	14500	4270	8460	13500	5570	5070	1730	3620	3980
29	6100	7690	11900	11000	---	7700	11700	5400	4720	1690	3330	3610
30	5290	6700	19800	9780	---	8700	10700	7060	4860	2430	2890	3100
31	4920	---	24200	8960	---	7850	---	10300	---	2910	2720	---
TOTAL	543430	143560	436440	421780	131080	388680	436310	454460	351190	92940	356710	78990
MEAN	17530	4785	14080	13610	4681	12540	14540	14660	11710	2998	11510	2633
MAX	103000	9510	46400	22600	8230	37300	21000	30900	23900	5250	28200	4550
MIN	1100	3140	3790	8960	3040	3770	6370	4650	4720	1690	2720	1270
AC-FT	1078000	284800	865700	836600	260000	770900	865400	901400	696600	184300	707500	156700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	4646	4725	6104	6982	7972	7630	8775	14640	11230	4876	2480	2880
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	572	426	922	1145	1027	1175	726	454
(WY)	1953	1989	1955	1940	1971	1954	1954	1988	1956	1971	1963	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	2174184		3835570			
ANNUAL MEAN	5957		10510		6904	
HIGHEST ANNUAL MEAN					26170	1992
LOWEST ANNUAL MEAN					1216	1984
HIGHEST DAILY MEAN	103000	Oct 18	103000	Oct 18	138000	May 1 1957
LOWEST DAILY MEAN	918	Sep 30	1100	Oct 3	137	Nov 6 1952
ANNUAL SEVEN-DAY MINIMUM	1090	Sep 26	1290	Oct 1	140	Nov 3 1952
INSTANTANEOUS PEAK FLOW			109000	Oct 17	143000	May 2 1957
INSTANTANEOUS PEAK STAGE			51.58	Oct 17	54.21	May 2 1957
ANNUAL RUNOFF (AC-FT)	4312000		7608000		5001000	
10 PERCENT EXCEEDS	13300		21500		17800	
50 PERCENT EXCEEDS	2580		6100		2540	
90 PERCENT EXCEEDS	1300		2420		688	

e Estimated

08114000 BRAZOS RIVER AT RICHMOND, TX
(National stream-quality accounting network)

LOCATION.--Lat 29°34'56", long 95°45'27", Fort Bend County, Hydrologic Unit 12070104, on right bank at downstream side of upstream 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.--45,007 mi², approximately, of which 9,566 mi² probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1903 to June 1906, October 1922 to current year. Published as "at Rosenberg" October 1922 to September 1931. June to November 1901 and June to September 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 Sept. 30, 1931, nonrecording chain gage at Rosenberg 7.6 mi upstream at datum about 17 ft higher; Oct. 1, 1931, to Sept. 30, 1975, water-stage recorder at 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.

REMARKS.--No estimated daily discharges. Records fair. Considerable water is diverted above station for irrigation and for municipal supply. For statement regarding regulation by upstream reservoirs and by National Resource Conservatio Service Floodwater-retarding structures, see station 08110200. Rain gage at station. Satellite telemeter at station

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--20 years (water years 1904-05, 1923-40) 7,209 ft³/s (5,223,000 acre-ft/yr).

EXTREMES FOR PERIOD PRIOR TO REGULATION (WATER YEARS, 1904-05, 1923-40).--Maximum discharge, 123,000 ft³/s June 6, 1929 (gage height, 53.6 ft, from floodmark), present site and datum; minimum daily, 35 ft³/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; June 13, 1885, 57.7 ft; July 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	865	6790	7950	24000	10800	6860	9370	11900	12200	5500	2730	3020
2	775	6440	7410	22100	9780	8170	8120	10700	18700	5510	3160	2950
3	995	5930	7610	17700	8800	6000	7300	8560	26400	5360	4490	2750
4	1330	5890	6980	14600	7690	4910	8410	6950	26000	5340	13500	2920
5	1090	5920	7300	12800	7300	4750	10800	6160	23800	5260	18500	3110
6	993	6010	6730	12100	7050	4840	15200	5740	19200	4690	22900	3050
7	1080	6060	5890	12000	6770	5320	19000	5570	14800	4260	26000	2720
8	1490	5940	5380	12100	6230	6480	22100	5540	12100	3820	28200	2540
9	2140	6270	5100	12400	5840	7790	22300	5810	10500	3720	28100	2370
10	2300	7020	5010	12500	5730	6090	20800	11300	10400	3620	25100	2100
11	2280	6620	4870	12100	5630	4970	19100	20700	11300	3210	21700	2060
12	4760	5790	5380	11900	5490	5190	18400	27900	10600	2850	20300	2190
13	6230	5280	5780	16300	5570	6700	18200	30400	9690	2820	19700	2070
14	5120	4970	5420	14500	5550	13400	20400	30900	8860	2780	17800	2040
15	3730	4750	6400	16700	5180	23900	21600	31800	12000	2620	14800	1840
16	2900	4720	6550	18000	4950	36100	18800	31200	15100	2690	12300	1900
17	7750	4570	14000	18900	4860	39400	17000	28000	19200	3070	10800	2510
18	60300	4440	36300	18800	5170	32200	15700	26200	20200	3590	9910	2060
19	82700	4210	45900	21000	5040	26600	14500	24200	17600	3840	9050	1610
20	87100	4150	45000	20300	4590	24600	14100	22500	13900	3140	7450	1430
21	87600	4510	36400	17000	4270	21400	13900	21800	11300	2630	6180	1310
22	82500	4680	27600	17000	4180	18700	13400	19800	10200	2440	5410	1640
23	64300	4300	22300	17800	4170	18700	13300	16000	9510	2150	4940	2550
24	40800	4770	20400	15800	4120	18700	14100	12700	8910	1860	4710	3500
25	24700	5070	18700	13400	3960	17100	14300	10200	8230	1780	4660	4620
26	17100	5320	16700	12700	3810	15400	16200	8580	6940	1840	4390	4310
27	13200	5710	14900	16200	3790	13900	18200	7690	6460	1860	4100	4300
28	10400	7930	13400	25800	4860	12300	16700	6660	6600	1810	3940	4320
29	8250	10100	12400	21600	---	10900	14500	6170	7040	1960	3830	4240
30	7670	9510	13000	14900	---	9370	12900	6620	6350	1730	3730	4210
31	7660	---	18900	12200	---	9180	---	7310	---	1830	3490	---
TOTAL	640108	173670	455660	505200	161180	439920	468700	475560	394090	99580	365870	82240
MEAN	20650	5789	14700	16300	5756	14190	15620	15340	13140	3212	11800	2741
MAX	87600	10100	45900	25800	10800	39400	22300	31800	26400	5510	28200	4620
MIN	775	4150	4870	11900	3790	4750	7300	5540	6350	1730	2730	1310
AC-FT	1270000	344500	903800	1002000	319700	872600	929700	943300	781700	197500	725700	163100

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued
(National stream-quality accounting network)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995#, BY WATER YEAR (WY)

MEAN	5135	5517	6987	8018	8846	8569	9305	15730	12350	4999	2651	3229
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	702	445	829	1100	786	717	550	414
(WY)	1953	1989	1955	1952	1971	1954	1954	1978	1956	1956	1963	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995#	
ANNUAL TOTAL	2412072		4261778			
ANNUAL MEAN	6608		11680		7602	
HIGHEST ANNUAL MEAN					26620	1992
LOWEST ANNUAL MEAN					1403	1984
HIGHEST DAILY MEAN	87600	Oct 21	87600	Oct 21	118000	May 5 1957
LOWEST DAILY MEAN	755	Aug 21	775	Oct 2	55	Jul 5 1956
ANNUAL SEVEN-DAY MINIMUM	863	Aug 15	1020	Oct 1	93	Jul 4 1956
INSTANTANEOUS PEAK FLOW			88100	Oct 21	119000	May 5 1957
INSTANTANEOUS PEAK STAGE			50.30	Oct 21	50.30	Oct 21 1994
ANNUAL RUNOFF (AC-FT)	4784000		8453000		5507000	
10 PERCENT EXCEEDS	13800		23300		19100	
50 PERCENT EXCEEDS	2860		7410		2960	
90 PERCENT EXCEEDS	1170		2550		778	

Period of regulated streamflow.

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued
(National stream-quality accounting network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1941 to current year. Chemical and biochemical analyses: January 1968 to current year. Pesticide analyses: October 1967 to May 1982. Sediment analyses: April 1957 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to current year.
WATER TEMPERATURE: November 1950 to current year.
SUSPENDED-SEDIMENT DISCHARGE: January 1966 to September 1986.

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 regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the U. S. Geological Survey Texas District office upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,600 microsiemens Sept. 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, Sept. 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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,130 microsiemens Oct. 8 and Dec. 1; minimum daily 152 microsiemens Oct. 19.
WATER TEMPERATURE: Maximum daily, 31.0°C several days during Jul. and Sept.; minimum daily, 9.5°C Dec. 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR											
09...	1440	7860	574	8.0	14.0	130	10.3	99	2.6	250	820
MAY											
02...	1420	10600	602	8.0	22.0	130	8.2	94	1.0	140	68
JUN											
23...	1112	9520	635	7.6	27.0	140	6.9	87	1.3	32	20
JUL											
31...	1312	1600	755	8.3	28.0	46	7.3	94	1.8	1100	340
SEP											
07...	1220	2720	723	8.0	30.0	25	6.8	90	1.2	K12	56

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
MAR											
09...	170	48	51	9.4	46	2	4.3	0	145	119	53
MAY											
02...	190	44	55	12	44	1	4.0	0	174	142	49
JUN											
23...	170	41	53	10	48	2	4.1	0	162	133	57
JUL											
31...	220	62	63	16	69	2	4.2	0	197	161	68
SEP											
07...	200	40	55	14	59	2	4.7	5	180	155	63

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR											
09...	65	0.20	8.3	337	312	0.700	0.700	0.020	0.720	0.720	<0.015
MAY											
02...	64	0.30	7.0	350	324	0.710	--	<0.010	0.710	0.710	<0.015
JUN											
23...	73	0.30	7.7	361	335	0.420	--	<0.010	0.420	0.420	<0.015
JUL											
31...	94	0.30	11	438	423	0.090	--	<0.010	0.090	0.090	<0.015
SEP											
07...	89	0.30	9.9	410	389	--	--	<0.010	--	<0.050	<0.015

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued
(National stream-quality accounting network)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	ALUM-INUM, DIS-SOLVED (UG/L AS AL)
MAR											
09...	1.5	0.80	0.80	0.210	0.060	0.040	0.12	306	6490	93	50
MAY											
02...	1.0	0.30	0.30	0.060	0.040	0.040	0.12	257	7360	98	--
JUN											
23...	0.92	0.50	0.50	0.140	0.040	0.040	0.12	402	10300	87	10
JUL											
31...	0.49	0.40	0.40	0.070	<0.010	0.010	0.03	98	423	99	--
SEP											
07...	0.40	0.40	0.40	0.060	<0.010	0.020	0.06	63	463	99	10

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
MAR											
09...	95	<3	58	10	2	20	1	<1	<1.0	410	<6
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
JUN											
23...	83	<3	9	13	2	<10	1	<1	<1.0	470	<6
JUL											
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	100	6	<3	13	<1	10	2	<2	<1.0	550	<6

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.	1994	640108	214	120	208000	22	38700	18	31600	69
NOV.	1994	173670	511	287	135000	60	28300	46	21800	150
DEC.	1994	455660	482	271	333000	58	71200	44	54300	140
JAN.	1995	505200	387	218	297000	42	57700	34	46100	120
FEB.	1995	161180	590	331	144000	72	31300	54	23700	170
MAR.	1995	439920	473	266	316000	55	65000	42	50500	140
APR.	1995	468700	511	287	363000	60	75900	46	58500	150
MAY	1995	475560	559	314	403000	69	88100	52	66400	160
JUNE	1995	394090	485	272	290000	58	61400	44	47000	150
JULY	1995	98070	647	363	96100	82	21800	61	16100	190
AUG.	1995	360390	517	290	282000	63	60900	47	46200	150
SEPT	1995	82190	688	386	85600	89	19800	66	14500	190
TOTAL		4254738	**	**	2952000	**	620000	**	477000	**
WTD.AVG.		11660	458	257	**	54	**	41	**	140

08114000 BRAZOS RIVER AT RICHMOND, TX--Continued
(National stream-quality accounting network)

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	630	1130	579	490	561	647	640	684	684	796	737
2	979	516	1110	420	496	453	---	630	540	684	786	739
3	843	430	911	439	495	453	668	609	447	664	764	---
4	905	436	---	410	521	491	680	588	---	668	635	771
5	1060	530	894	378	570	569	549	656	350	692	340	768
6	1110	555	867	380	570	644	505	646	384	628	---	742
7	1120	554	863	434	576	648	419	---	334	666	282	768
8	1130	590	863	469	580	645	377	700	368	613	512	742
9	1070	539	807	430	628	572	442	739	453	640	601	732
10	1010	588	791	477	603	495	595	718	505	627	634	707
11	1030	653	767	490	598	426	387	727	562	621	659	732
12	964	594	755	510	---	581	461	386	558	641	647	731
13	1080	504	749	439	595	600	612	381	548	654	640	710
14	553	604	686	448	626	542	620	---	560	706	621	745
15	447	597	640	558	652	414	661	651	560	---	618	770
16	202	566	702	517	680	403	---	738	582	---	599	744
17	470	506	770	347	694	335	445	747	522	703	596	762
18	---	463	330	453	679	375	492	656	---	732	570	811
19	152	466	287	379	628	---	545	644	678	724	574	794
20	160	---	300	295	673	323	555	630	687	717	---	786
21	173	485	338	295	721	577	575	606	675	694	665	810
22	183	503	319	---	757	707	580	515	689	672	677	797
23	193	494	307	380	701	711	579	513	638	697	672	842
24	215	---	343	432	699	605	572	477	636	695	677	863
25	224	---	463	433	717	583	603	492	720	721	715	738
26	232	580	534	399	728	575	595	491	742	758	727	659
27	245	618	581	386	735	569	500	569	745	795	725	491
28	260	574	561	421	672	548	645	598	755	788	732	479
29	292	480	505	---	---	562	573	690	682	775	---	571
30	330	768	491	492	---	549	604	715	664	768	---	651
31	368	---	534	---	---	620	---	702	---	769	---	---
MEAN	602	549	640	432	633	538	553	616	581	696	633	731
MAX	1130	768	1130	579	757	711	680	747	755	795	796	863
MIN	152	430	287	295	490	323	377	381	334	613	282	479

WTR YR 1995 MEAN 601 MAX 1130 MIN 152

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	17.0	9.5	12.0	12.0	16.0	18.0	20.0	25.0	28.0	29.0	30.0
2	24.0	20.0	15.0	10.0	13.0	15.0	---	20.0	25.0	28.0	28.0	30.0
3	26.0	21.0	17.0	10.0	14.0	13.0	18.0	20.0	25.0	29.0	28.0	---
4	26.0	23.0	---	10.0	14.0	13.0	18.0	23.0	---	29.0	29.0	31.0
5	26.0	23.0	18.0	10.0	13.0	14.0	17.0	24.0	26.0	29.0	28.0	31.0
6	26.0	21.0	18.0	10.0	13.0	15.0	17.0	25.0	26.0	28.0	---	31.0
7	27.0	20.0	19.0	10.0	14.0	16.0	17.0	---	27.0	28.0	29.0	31.0
8	22.0	22.0	20.0	20.0	13.0	12.0	17.0	25.0	27.0	29.0	29.0	30.0
9	20.0	23.0	20.0	11.0	13.0	12.0	19.0	24.0	29.0	30.0	29.0	30.0
10	20.0	20.0	16.0	13.0	14.0	13.0	19.0	24.0	29.0	30.0	29.0	30.0
11	20.0	20.0	14.0	18.0	16.0	14.0	19.0	25.0	28.0	30.0	29.0	30.0
12	20.0	20.0	13.0	15.0	---	14.0	19.0	24.0	28.0	30.0	29.0	30.0
13	20.0	20.0	14.0	15.0	12.0	12.0	20.0	24.0	27.0	30.0	29.0	30.0
14	20.0	20.0	15.0	15.0	12.0	17.0	20.0	---	26.0	30.0	29.0	30.0
15	20.0	20.0	16.0	15.0	14.0	17.0	21.0	25.0	26.0	---	29.0	30.0
16	22.0	20.0	16.0	14.0	14.0	17.0	---	25.0	26.0	30.0	29.0	29.0
17	24.0	19.0	15.0	15.0	13.0	17.0	21.0	25.0	26.0	30.0	29.0	29.0
18	---	20.0	15.0	15.0	12.0	17.0	21.0	25.0	---	30.0	29.0	30.0
19	22.0	20.0	14.0	13.0	14.0	---	22.0	23.0	26.0	30.0	29.0	30.0
20	22.0	---	15.0	13.0	14.0	18.0	22.0	24.0	26.0	30.0	---	29.0
21	23.0	19.0	14.0	13.0	15.0	18.0	21.0	24.0	27.0	30.0	30.0	29.0
22	23.0	18.0	13.0	---	15.0	18.0	22.0	24.0	27.0	31.0	30.0	25.0
23	24.0	18.0	13.0	12.0	16.0	20.0	21.0	24.0	28.0	31.0	30.0	22.0
24	24.0	---	13.0	12.0	17.0	21.0	19.0	25.0	28.0	31.0	30.0	23.0
25	24.0	---	12.0	12.0	17.0	21.0	19.0	25.0	28.0	31.0	30.0	24.0
26	22.0	---	11.0	14.0	18.0	22.0	20.0	26.0	28.0	31.0	30.0	24.0
27	21.0	18.0	12.0	15.0	18.0	21.0	20.0	26.0	28.0	31.0	30.0	24.0
28	20.0	20.0	12.0	14.0	18.0	21.0	20.0	27.0	29.0	31.0	30.0	25.0
29	20.0	16.0	12.0	---	---	19.0	20.0	27.0	29.0	31.0	---	26.0
30	20.0	16.0	12.0	12.0	---	17.0	20.0	26.0	28.0	31.0	---	26.0
31	20.0	---	12.0	---	---	18.0	---	25.0	---	28.0	---	---
MEAN	22.5	20.0	14.5	13.0	14.5	16.5	19.5	24.5	27.0	30.0	29.0	28.0
MAX	27.0	23.0	20.0	20.0	18.0	22.0	22.0	27.0	29.0	31.0	30.0	31.0
MIN	20.0	16.0	9.5	10.0	12.0	12.0	17.0	20.0	25.0	28.0	28.0	22.0

WTR YR 1995 MEAN 21.5 MAX 31.0 MIN 9.5

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 mi².

PERIOD OF RECORD.--May 1947 to June 1950, March 1952 to current year.

REVISED RECORDS.--WSP 1148: 1947. WSP 1712: 1957-58, 1959(M). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.39 ft above sea level. Prior to June 30, 1950, and May 29, 1959, to Mar. 29, 1960, nonrecording gage at datum 10.00 ft higher. March 1952 to May 28, 1959, and Mar. 30, 1960, to Sept. 30, 1967, water-stage recorder at datum 10.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Channel was rectified in 1956. No diversions above station. Low flow supplemented by drainage from irrigated fields.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, 24.4 ft in August 1945 before channel rectification, from information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	1800	6,000	24.23	Apr. 4	2000	1,840	20.95
Jan. 13	0600	2,260	21.91				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.61	1.2	.82	82	13	69	28	1.5	301	110	12	1.6
2	.65	1.1	4.2	32	8.5	28	17	1.5	78	39	13	1.4
3	.63	1.1	341	22	6.0	25	9.7	1.5	27	21	13	1.3
4	.58	.97	108	15	3.9	18	785	1.6	15	16	11	.86
5	.59	.93	41	9.4	3.0	13	736	1.3	9.4	15	9.7	1.0
6	.59	.96	24	6.5	2.4	9.3	270	1.8	4.9	30	8.0	.95
7	.62	.90	15	4.6	2.2	152	92	1.6	3.5	11	6.6	.93
8	11	.85	9.9	2.9	1.9	64	43	31	3.0	8.3	5.8	.98
9	9.2	.85	6.1	2.2	1.9	25	25	13	3.1	8.6	4.9	.85
10	1.6	1.3	3.8	1.7	1.8	14	16	11	3.0	8.0	4.5	1.3
11	.68	.98	2.4	1.4	1.7	8.4	9.7	8.3	131	7.1	4.5	1.7
12	.62	.92	1.6	129	1.6	5.8	5.3	4.8	48	6.5	5.2	.91
13	.62	.81	1.5	1430	1.6	333	3.7	2.4	21	5.9	5.8	.84
14	.62	1.1	1.8	238	1.7	193	2.9	1.8	15	5.6	5.3	.99
15	30	1.7	7.3	91	1.6	69	2.7	1.6	11	6.1	6.9	1.0
16	39	.90	79	43	1.7	33	2.3	1.3	7.2	6.5	6.1	.77
17	156	.80	107	26	1.7	20	2.0	1.4	4.9	8.1	8.0	1.2
18	3920	.85	40	85	1.6	14	2.0	1.5	3.8	8.1	7.7	1.9
19	2910	9.7	22	70	1.6	7.9	1.9	1.5	11	7.4	5.5	1.2
20	585	1.7	13	32	1.6	5.2	7.5	1.5	5.3	6.7	4.2	1.2
21	180	.99	8.2	20	1.6	3.2	5.4	1.6	6.7	5.9	2.9	1.7
22	69	.89	6.2	14	1.2	2.3	2.1	1.6	6.5	5.4	2.4	2.0
23	33	.83	3.8	12	3.3	2.0	1.9	1.4	5.7	5.2	5.5	2.1
24	21	.81	2.1	14	17	2.0	1.8	1.7	4.9	5.1	4.7	1.6
25	13	.81	1.4	11	2.4	1.5	1.8	1.6	4.1	4.6	6.4	1.4
26	8.2	.82	1.1	232	1.9	1.5	1.4	1.6	4.6	4.4	19	1.2
27	5.1	.86	1.1	370	1.6	1.5	1.7	1.6	4.1	4.8	3.9	1.2
28	3.4	.86	80	125	210	1.4	1.6	2.0	4.6	5.0	2.1	1.0
29	2.5	.87	251	50	---	108	1.6	129	148	4.8	1.9	.74
30	1.8	.89	101	27	---	152	1.6	571	337	4.9	2.0	.93
31	1.6	---	97	19	---	55	---	231	---	9.4	2.2	---
TOTAL	8007.21	38.25	1382.32	3217.7	300.0	1437.0	2082.6	1036.0	1232.3	394.4	200.7	36.75
MEAN	258	1.27	44.6	104	10.7	46.4	69.4	33.4	41.1	12.7	6.47	1.22
MAX	3920	9.7	341	1430	210	333	785	571	337	110	19	2.1
MIN	.58	.80	.82	1.4	1.2	1.4	1.4	1.3	3.0	4.4	1.9	.74
AC-FT	15880	76	2740	6380	595	2850	4130	2050	2440	782	398	73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

MEAN	46.2	34.9	39.3	37.8	46.5	20.6	35.6	42.7	50.2	15.4	25.3	41.7
MAX	258	298	194	186	223	130	218	224	467	166	284	399
(WY)	1995	1986	1987	1974	1959	1957	1973	1982	1960	1961	1983	1979
MIN	.000	.000	.000	.000	.039	.000	.000	.33	.023	.019	.000	.000
(WY)	1948	1956	1949	1957	1962	1954	1954	1963	1948	1956	1948	1948

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1947 - 1995	
ANNUAL TOTAL	16159.44		19365.23			
ANNUAL MEAN	44.3		53.1		36.2	
HIGHEST ANNUAL MEAN					91.1	1973
LOWEST ANNUAL MEAN					3.18	1947
HIGHEST DAILY MEAN	3920	Oct 18	3920	Oct 18	7080	Jun 26 1960
LOWEST DAILY MEAN	.57	Sep 27	.58	Oct 4	.00	Jun 13 1947
ANNUAL SEVEN-DAY MINIMUM	.60	Sep 21	.61	Oct 1	.00	Jun 13 1947
INSTANTANEOUS PEAK FLOW			6000	Oct 18	10400	Jun 26 1960
INSTANTANEOUS PEAK STAGE			24.23	Oct 18	24.23	Oct 18 1994
ANNUAL RUNOFF (AC-FT)	32050		38410		26250	
10 PERCENT EXCEEDS	60		87		49	
50 PERCENT EXCEEDS	1.7		4.6		1.6	
90 PERCENT EXCEEDS	.82		.93		.00	

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 mi², approximately, of which 9,566 mi² probably is noncontributing.

PERIOD OF RECORD.--April 1967 to September 1980, Apr. 25 1984 to current year.
Water-quality records.--Chemical and biochemical analyses: October 1967 to September 1980. Specific Conductance: October 1967 to September 1980. Water Temperature: October 1967 to September 1980. Sediment analyses: October 1974 to September 1980.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

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

REMARKS.--Records fair. Water is diverted above station for irrigation, industrial, and municipal supply and materially affect low flows. For regulation by upstream reservoirs and by National Re3source Conservation Service floodwater-retarding structures, see Brazos River at Washington (station 08110200). Satellite telemeter at station.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915	8560	9770	25100	e13200	e7700	11600	13400	13500	8410	1960	3330
2	873	7790	8700	27100	e11700	9790	10700	12300	17100	6640	2620	3040
3	828	7300	15900	23600	e10500	9250	9460	10800	24300	5940	2830	2840
4	1010	6870	15100	18900	e9600	7200	10500	8900	27900	5470	6480	2700
5	1080	6810	10800	15600	e8800	e6200	19300	7730	26500	5570	13600	2840
6	892	6750	9130	13900	8410	e6000	24100	7060	23100	5530	19100	2840
7	837	6800	7910	13200	8120	6730	24700	6760	17800	4840	23400	2760
8	985	6790	6900	13100	7750	8200	25500	6910	13400	4190	27000	2560
9	1530	6720	6310	13300	7220	8770	26200	7360	10900	3810	28600	2470
10	1780	7340	5970	13600	6830	8570	25200	8220	9760	3670	27300	2310
11	1850	7650	5830	13500	6690	6890	23100	15400	10200	3520	24000	2150
12	2190	7090	5740	13000	6530	6000	21400	25100	10800	3150	21300	2150
13	4420	6410	6380	19300	6420	8840	20400	31000	10000	2910	20100	2190
14	4980	5980	6390	22600	6550	14500	20900	32700	8920	2880	19000	2120
15	3990	5680	6540	19600	6400	21600	23400	33100	9120	2790	16300	2050
16	3960	5490	7270	20000	6060	32900	22800	33300	12200	2680	13100	1920
17	3200	5470	8610	20500	5810	41600	20100	31300	16200	2820	10800	2090
18	20200	5360	26800	22100	5830	40100	18400	28600	19700	3050	9500	2390
19	71800	5200	43400	23900	6030	33000	16700	26700	19600	3330	8700	2100
20	80700	4990	48900	24600	5770	28900	15600	24400	16100	3250	7640	1890
21	83000	5000	e43000	21600	5330	26000	15500	23200	12400	2740	6490	1800
22	83900	5340	e34000	19000	5080	22300	15200	21900	10200	2450	5640	1780
23	83400	5230	e28000	19600	5030	20400	14600	18800	9290	2270	5040	2090
24	76100	5090	24000	19300	5100	20600	14700	14900	8760	2050	4570	2680
25	56300	5560	22000	16700	5200	19800	15300	11700	8230	1820	4360	3600
26	36100	5800	19800	14700	4900	17900	16000	9540	7360	1770	4220	4040
27	22000	6050	17600	18400	4750	16100	18600	8250	6480	1780	4000	3850
28	15500	6730	15800	25600	e5700	14600	19400	7460	6190	1770	3840	3930
29	11800	9200	15500	28200	---	14300	17500	7820	6810	1740	3720	3950
30	9620	10700	14600	21700	---	16000	15100	10600	9510	1800	3690	3830
31	9120	---	16800	15800	---	12600	---	12900	---	1810	3650	---
TOTAL	694860	195750	513450	597100	195310	513340	551960	518110	402330	106450	352550	80290
MEAN	22410	6525	16560	19260	6975	16560	18400	16710	13410	3434	11370	2676
MAX	83900	10700	48900	28200	13200	41600	26200	33300	27900	8410	28600	4040
MIN	828	4990	5740	13000	4750	6000	9460	6760	6190	1740	1960	1780
AC-FT	1378000	388300	1018000	1184000	387400	1018000	1095000	1028000	798000	211100	699300	159300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

MEAN	4938	5747	7794	10770	10770	11430	10840	14190	13820	4810	2808	3100
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	369	290	866	1119	596	498	540	312	367	246	596	504
(WY)	1989	1989	1989	1971	1971	1971	1971	1978	1971	1971	1985	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1967 - 1995	
ANNUAL TOTAL	2605578		4721500			
ANNUAL MEAN	7139		12940		8662	
HIGHEST ANNUAL MEAN					29050	1992
LOWEST ANNUAL MEAN					1634	1978
HIGHEST DAILY MEAN	83900	Oct 22	83900	Oct 22	83900	Oct 22 1994
LOWEST DAILY MEAN	330	Jul 19	828	Oct 3	40	Apr 7 1967
ANNUAL SEVEN-DAY MINIMUM	540	Jul 17	919	Oct 1	44	Apr 4 1967
INSTANTANEOUS PEAK FLOW			84400	Oct 22	84400	Oct 22 1994
INSTANTANEOUS PEAK STAGE			51.82	Oct 22	51.89	Jan 3 1992
ANNUAL RUNOFF (AC-FT)	5168000		9365000		6275000	
10 PERCENT EXCEEDS	15500		25500		21800	
50 PERCENT EXCEEDS	3040		8770		3550	
90 PERCENT EXCEEDS	983		2430		727	

e Estimated

08117500 SAN BERNARD RIVER NEAR BOLING, TX

LOCATION.--Lat 29°18'48", long 95°53'37", Wharton-Fort Bend County line, Hydrologic Unit 12090401, on left bank at downstream side of bridge on Farm Road 442, 2.5 mi downstream from Snake Creek, and 4.5 mi northeast of Boling.

DRAINAGE AREA.--727 mi².

PERIOD OF RECORDS.--May 1954 to current year.
Water-quality records.--Chemical and biochemical analyses: February 1978 to September 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.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Part of low flow is drainage from areas irrigated with diversions from the Colorado River. There are numerous diversions above station for irrigation and for other uses.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 43.5 ft in 1913 (probably December). Flood in September 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 ft³/s:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 21	0100	19,700	19.45	Jan. 13	2400	4,690	21.62
Dec. 3	2000	4,470	21.07	Mar. 30	0400	3,450	18.38

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	308	23	948	e400	1130	e900	87	1790	1050	182	71
2	106	221	67	1300	e300	675	e400	95	1960	1350	227	74
3	102	173	3450	1010	e240	602	e100	122	1560	1450	303	74
4	109	142	3720	780	e180	727	e1100	120	1110	1250	387	68
5	113	114	2120	594	e160	820	e800	118	794	694	376	65
6	119	100	e1000	428	e130	704	e700	156	636	444	316	73
7	129	103	e900	309	e110	1080	e500	178	484	427	269	79
8	150	110	e700	231	95	1460	e300	195	312	495	223	83
9	223	123	e400	181	84	1060	e200	339	199	393	208	82
10	646	121	e280	123	82	741	e140	556	143	328	216	84
11	878	103	e200	94	80	718	e100	731	205	282	226	92
12	751	88	e150	93	68	832	e90	684	960	242	218	117
13	644	72	e100	3320	65	1150	e80	610	1010	212	220	111
14	587	61	e85	4260	62	e1000	e70	556	613	195	244	98
15	513	52	e70	3660	56	e700	e60	416	383	174	392	99
16	431	44	70	3830	53	e450	e54	279	294	169	612	101
17	429	39	83	3620	52	e290	e50	188	229	176	641	106
18	4030	37	289	2640	51	e280	e45	131	174	182	482	113
19	13300	133	467	1840	50	e700	e70	96	137	206	294	117
20	18500	170	377	1210	48	1110	e160	82	127	211	190	121
21	19400	110	347	794	46	830	127	70	137	189	131	119
22	17800	73	387	557	44	560	101	55	150	166	96	320
23	15000	51	379	444	44	360	91	57	149	162	108	572
24	11000	39	299	320	42	241	103	66	151	150	150	430
25	7340	33	210	284	39	179	105	64	150	131	154	309
26	5150	30	148	676	39	140	99	71	139	134	123	234
27	3650	28	106	2500	39	118	88	75	126	161	125	179
28	2050	27	79	e2000	847	102	73	81	108	154	120	133
29	1070	25	75	e1200	---	1160	65	127	114	158	98	97
30	681	24	1160	e900	---	2960	76	551	624	157	77	71
31	474	---	1360	e500	---	1590	---	1420	---	152	69	---
TOTAL	125488	2754	19101	40646	3506	24469	6847	8376	14968	11644	7477	4292
MEAN	4048	91.8	616	1311	125	789	228	270	499	376	241	143
MAX	19400	308	3720	4260	847	2960	1100	1420	1960	1450	641	572
MIN	102	24	23	93	39	102	45	55	108	131	69	65
AC-FT	248900	5460	37890	80620	6950	48530	13580	16610	29690	23100	14830	8510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN	581	475	437	577	701	369	469	677	877	339	207	580
MAX	4048	4069	2497	2316	4303	2142	3348	2840	5083	1417	710	3794
(WY)	1995	1986	1992	1979	1992	1957	1973	1972	1993	1961	1983	1979
MIN	3.27	5.23	6.19	6.57	15.2	5.97	15.2	22.8	10.4	10.7	26.8	35.2
(WY)	1957	1956	1990	1957	1967	1956	1963	1956	1956	1956	1956	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	259992		269568			
ANNUAL MEAN	712		739		527	
HIGHEST ANNUAL MEAN					1357	1992
LOWEST ANNUAL MEAN					37.9	1956
HIGHEST DAILY MEAN	19400	Oct 21	19400	Oct 21	21000	Jun 28 1960
LOWEST DAILY MEAN	23	Dec 1	23	Dec 1	1.7	Dec 7 1988
ANNUAL SEVEN-DAY MINIMUM	27	Mar 30	27	Nov 25	2.2	Dec 1 1988
INSTANTANEOUS PEAK FLOW			19700	Oct 21	21200	Jun 28 1960
INSTANTANEOUS PEAK STAGE			41.44	Oct 21	42.41	Jun 28 1960
ANNUAL RUNOFF (AC-FT)	515700		534700		381500	
10 PERCENT EXCEEDS	1070		1200		1280	
50 PERCENT EXCEEDS	166		181		122	
90 PERCENT EXCEEDS	43		65		18	

e Estimated

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 1995

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Brazos River Basin				
08084100	Deadman Creek near Nugent, Tex.	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.	--	1967-95	10-06-94	15.9
					12-15-94	22.6
					02-09-95	17.8
					04-13-95	17.9
					06-15-95	24.1
					08-17-95	21.8
08104290	Salado Creek above Salado, Tex.	Lat 30°56'42", long 97°32'30", Bell County, 0.2 mi upstream from I.H. 35, at Salado.	--	1984-88, 1990-95	02-01-95	19.5
					05-23-95	11.8
					07-11-95	6.81
					08-01-95	5.49
08104310	Salado Creek below Salado Springs, at Salado, Tex.	Lat 30°57'07", long 92°21'26", Bell County, on right bank downstream from low-water crossing in the Mill Creek Country Club and subdivision at Salado.	--	1984-87†, 1988, 1990-95	02-01-95	35.9
					04-07-95	47.6
					04-07-95	47.5
					05-22-95	27.7
					07-11-95	17.4
					08-01-95	13.8
08104795	North Fork San Gabriel River upstream from State Highway 418 at Georgetown, Tex.	Lat 30°38'44", long 97°40'49", Williamson County, 0.2 mi upstream from State Highway 418 at Georgetown.	--	1984-88, 1990-95	01-31-95	11.6
					05-23-95	13.6
					07-11-95	25.8
					08-01-95	8.01
08104950	South Fork San Gabriel River upstream from State Highway 418 at Georgetown, Tex.	Lat 30°38'38", long 97°40'50", Williamson County, 0.2 mi upstream from State Highway 418 at Georgetown.	--	1984-88, 1990-95	02-09-95	26.2
					05-25-95	18.1
					07-11-95	11.2
					08-01-95	5.47
08105000	San Gabriel River at Georgetown, Tex.	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, 1990-95	02-09-95	57.0
					05-24-95	51.6
					07-11-95	56.6
					08-01-95	30.1
08105095	Berry Creek upstream from I.H. 35 near Georgetown, Tex.	Lat 30°42'11", long 97°39'58", Williamson County, about 1.4 mi upstream from I.H. 35 near Georgetown.	--	1984-88, 1990-95	02-01-95	8.40
					05-24-95	1.83
					07-11-95	0
					07-31-95	0
					08-01-95	0
08105160	Dry Berry Creek near Georgetown, Tex.	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.	--	1986-88, 1990-95	01-31-95	4.38
					05-23-95	0
					07-11-95	0
					08-01-95	0
08105200	Berry Creek at State Highway 971 near Georgetown, Tex.	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.	--	1964-73, 1984-87†, 1988, 1990-95	01-31-95	27.5
					05-25-95	12.7
					07-11-95	4.29
					08-01-95	3.60

See footnotes at end of table.

Discharge measurements made at low-flow partial-record station during water year 1995--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Brazos River Basin--Continued				
08105300	San Gabriel River near Weir, Tex.	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, and 54.8 mi upstream from mouth.	563	1976-90† 1991-95	02-09-95 05-26-95 07-11-95 08-01-95	90.9 123 59.2 27.8

† 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 of flood-profile definition. Gages at these stations usually consist of a device that will register the peak stage occuring between inspections 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 1995

Station name	Location	Period of record	Water Year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
	San Jacinto River Basin							
Goose Creek at Baytown, Tex. 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.	1984-95	10-17-94	*22.04	--	10-17-94	*22.04	--
Willow Creek near Tomball, Tex. 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.	1984-95	10-18-94	31.81	4,070	10-18-94	31.81	4,070
Cypress Creek at Sharp Road near Hockley, Tex. 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, 1979-95	10-18-94	*69.86	--	10-18-94	*69.86	--
Buffalo Bayou near Fulshear, Tex. 08072350	Lat 29°43'22", long 95°46'01", Harris 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.	1986-95	10-18-94	14.29	--	02-21-94	b15.84	--
South Mayde Creek near Addicks, Tex. 08072700	Lat 29°48'03", long 95°41'33", Harris County, at bridge on Groeschke Road, 3.2 mi west of Addicks, and 4.6 mi upstream from Langham Creek. Drainage area is 32.3 mi^2.	1974-95	10-18-94	*107.01	--	08-31-81	108.76	4,080
Langham Creek near Addicks, Tex. 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	1974-95	10-18-94	*100.67	--	08-31-81	102.25	3,360
Whiteoak Bayou at Alabonson Road at Houston, Tex. 08074020	Lat 29°52'14", long 95°28'49", Harris County, at bridge on Alabonson Road, in northwest of Houston, 1.0 mi upstream from Vogel Creek, and 2.5 mi upstream from Cole Creek. Drainage area is 34.5 mi^2.	1984-95	10-18-94	*45.17	3,980	03-04-92	49.58	8,610
Little Whiteoak Bayou at Trimble Street at Houston, Tex. 08074540	Lat 29°47'33", long 95°22'06", Harris County, at bridge on Trimble Street, Houston. Drainage area is 18.0 mi^2.	1979-95	10-17-94	*39.29	--	03-04-92	43.17	--
Brays Bayou at Alief, Tex. 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.	1977-95	10-18-94	16.83	--	03-04-92	21.16	--
Keegans Bayou at Keegan Road near Houston, Tex. 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, 1975-95	10-18-94	*80.27	--	04-14-66	83.55	--
Brays Bayou at Gessner Drive, Houston, Tex. 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.	1977-95	10-18-94	*60.83	11,000	03-04-92	65.42	16,900
Greens Bayou at Cutten Road near Houston, Tex. 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.	1965-95	10-18-94	*114.41	740	02-21-69 10-25-84	*118.04 *116.85	508 2,110
Carpenters Bayou at IH-10 near Channelview, Tex. 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.	1991-95	10-17-94	*17.53	--	10-17-94	*17.53	--

See footnotes at end of table.

Annual maximum stage and (or) discharge during water year 1995--Continued

Station name	Location	Period of record	Water Year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
Clear Creek Basin								
Beamer Street Ditch at Houston, Tex. 08077505	Lat 29°35'30", long 95°13'19", Harris County, at bridge on Hughes Road in southeast Houston. Drainage area is 5.19 mi^2.	1984-95	10-18-94	*31.48	--	10-18-94	31.48	--
Turkey Creek near Friendswood, Tex. 08077520	Lat 29°35'02", long 95°11'13", Harris County, at bridge on Dixie Farm Road in southern on Dixie Farm Road Harris County, 2.4 mi upstream from Clear Creek, and 3.9 mi north-northeast of Friendswood. Drainage area is 6.78 mi^2.	1985-95	10-18-94	*27.97	--	10-18-94	*27.97	--
Horsepen Bayou at Bay Area Blvd., Houston, Tex. 08077630	Lat 29°35'00", long 95°06'12", Harris County, at upstream bridge on Bay Area Blvd., in southeast Houston, and 2.0 mi upstream from Armand Bayou. Drainage area is 17.8 mi^2.	1985-95	05-30-95	*11.60	--	08-01-89	*12.35	--
Brazos River Basin								
Blackwater Draw tributary near Floyd, N. Mex. 08079300	Lat 34°14'52", long 103°44'51", Roosevelt County, 0.5 mi below section road and 10 mi west of Floyd. Drainage area is 10 mi^2.	1963-94	06-19-93	n	--	1969	5.96	3,400
Running Water Draw near Clovis, N. Mex. 08080600	Lat 34°31'55", long 103°12'05", CurryCounty, 0.25 mi upstream from State Highway 18 and 8 mi west Clovis, New Mexico. Drainage area is 109 mi^2.	1953-56, 1957-64†, 1965-94	08-03-94	6.32	4,220	07-24-92	--	8,000

* Elevation, in feet.
† Operated as a continuous-record station.
b Revised.
c Gage height not determined.
d Discharge not determined.
e Estimated.
n No evidence of any flow during water year.

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 1995

Station no.	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Brazos River Basin				
Catclaw Creek at Abilene, Tex. 08083420	Clear Fork Brazos River	Lat 32°28'31", long 99°44'56", Taylor County, in Sear Park 320 ft downstream from bridge on Ambler Street in Abilene, and 1.8 mi upstream from mouth.	13.0	1971-79†, 1993-95	10-06-94	0
					12-09-94	0
					12-13-94	0
					01-31-95	0
					04-10-95	5.92
					06-13-95	0.51
					06-15-95	0.09
					08-17-95	0
Cedar Creek at I-20 at Albilene, Tex. 08083480	Clear Fork Brazos River	Lat 32°29'58", long 99°42'57", Taylor County, on Cedar Creek bridge on IH-20 Service Road.	--	1993-95	10-06-94	0.01
					12-13-94	0.87
					01-31-95	0.84
					04-10-95	16.1
					06-13-95	4.08
					08-17-95	0.43
Leon River at North Ft. Hood, Tex. 08100600	--	Lat 31°23'01", long 97°42'06", Coryell County, on downstream side of State Highway 36, 9.8 mi downstream from City of Gatesville Sewage Disposal Plant.	--	1990-95	12-05-94	606
					01-17-95	544
					02-28-95	580
Yegua Creek nr Sommerville, Tex. 08110000	Brazos River	Lat 30°19'18", long 96°30'26", Burleson County, on left bank 40 ft downstream from bridge on State Highway 36, 1.0 mi downstream from Sommerville Lake, 2.0 mi south of Sommerville, and 5.0 mi upstream from Davidson Creek.	1,009	1924-91†, 1992-95	11-16-94	1,590
					12-05-94	1,490
					12-12-94	1,180
					02-28-95	901
					03-09-95	640

† Operated as a continuous-record station.

	Page
Access to WATSTORE data	14
Accuracy of the records	11
Acre-foot, definition of	14
Addicks Reservoir near Addicks	76
Adenosine triphosphate (ATP), definition of	14
Algae, definition of	14
Algal growth potential (AGP), definition of	14
Aquilla Creek near Aquilla	230-231
Aquilla Lake above Aquilla	229
Arrangement of records	11
Artificial substrate, definition of	20
Ash mass, definition of	15
Bacteria, definition of	15
Barker Reservoir near Addicks	73
Beamer Street Ditch at Houston	368
Bear Creek near Barker	74
Bed load, definition of	19
discharge, definition of	19
Bed material, definition of	15
Belton Lake near Belton	277-296
Berry Bayou at Forest Oaks Street, Houston	127-128
Berry Creek, at State Highway 971 near Georgetown	365
near Georgetown	325
upstream from Interstate Highway 35 near Georgetown	365
Big Creek, near Freestone	346
near Needville	361
Big Sandy Creek above Breckenridge	171-177
Biochemical oxygen demand (BOD), definition of	15
Biomass, definition of	15
Blackwater Draw tributary near Floyd, N. Mex.	368
Blue-green algae, definition of	18
Bottom material, definition of	15
Brays Bayou, at Alief Road, Alief	367
at Gessner Drive, Houston	367
at Houston	115-118
Brazos River, at Morris Sheppard Dam near Graford	203
at Richmond	356-360
at Seymour	156-158
at State Highway 21 near Bryan	233-235
at Waco	241-242
at Washington	344
at Whitney Dam near Whitney	225-227
near Aquilla	228
near Bryan	336-337
near Dennis	205-207
near Glen Rose	217-218
near Hempstead	355
near Highbank	243-247
near Palo Pinto	204
near Rosharon	362
near South Bend	190-191
Brazos River Basin, crest-stage partial-record stations in	368
gaging-station records in	147-362
low-flow partial-record stations in	365-366
Brickhouse Gully at Costa Rica Sreet, Houston	89
Buffalo Bayou, at Houston	82-87
at McKee Street, Houston	100-106
at Piney Point	81
at Turning Basin, Houston	107-113
at West Belt Drive, Houston	78-80
near Addicks	77
near Fulshear	367
near Katy	72
California Creek near Stamford	162
Carpenters Bayou at IH-10 near Channelview	367
Cat Claw Creek at Abilene	369
Cedar Creek at I-20 at Abilene	369
Cells/volume, definition of	15
Chemical oxygen demand (COD), definition of	15
Chlorophyll, definition of	15
Chocolate Bayou near Alvin	145-146
Chocolate River Basin, gaging-station records in	145-146
Classification of records	11
Clear Creek atFriendswood	139
Clear Creek Basin, crest-stage partial-record stations in	368
gaging-station records in	139
Clear Fork Brazos River, at Fort Griffin	163
at Nugent	161
near Roby	160
Coastal Basin, gaging-station records in	140-141
Cole Creek at Deihl Road, Houston	88
Color Unit, definition of	15
Contents, definition of	15
Continuing-record station, definition of	11
Control, definition of	15
structure	15
Cooperation	1
Cowhouse Creek at Pidcoke	273-276
Crest-stage partial-record stations	367-368
definition of	7
Cubic-foot-per-second day, definition of	16
Cubic foot per second (ft3/s), definition of	16
Cubic foot per second per square mile (CFSM), definition of	16
Cypress Creek at Grant Road near Cypress	41
at House and Hahl Road near Cypress	39
at Katy-Hockley Road near Hockley	38
at Sharp Road near Hockley	367
at Stubner-Airline Road near Westfield	42
near Westfield	43-44
Data, collection and computation	7
presentation	8,13
table of daily mean values	9
Davidson Creek near Lyons	343
Deadman Creek near Nugent	365
Definition of terms	14
Diatoms, definition of	18
Discharge, at partial-record stations	365-369
definition of	16
Dissolved, definition of	16
trace elements concentration	14
Dissolved-solids concentration, definition of	16
Diversity index, definition of	16
Double Mountain Fork Brazos River, at Justiceburg	147-150
near Aspermont	151-153
Downstream order numbering	6
Drainage area, definition of	16
Drainage basin, definition of	16
Dry Berry Creek near Georgetown	365
Dry mass, definition of	15
East Fork San Jacinto River, near New Caney	46-52
near Cleveland	45
East Yegua Creek near Dime Box	340-341
Explanation of the records	6
Fecal coliform bacteria, definition of	15
Fecal streptococcal bacteria, definition of	15
Gage height, definition of	16
Gaging station, definition of	16
Gaging-station records	25-363
Garners Bayou near Humble	136
Goose Creek at Baytown	367
Granger Lake near Granger	326
Green algae, definition of	18
Greens Bayou, at Cutten Road near Houston	367
at Ley Road at Houston	138
at U.S. Highway 75 near Houston	133
near Houston	134-135
Halls Bayou at Houston	137
Hardness, definition of	16
Highland Bayou Basin, gaging-station records in	142-144
Hog Creek near Crawford	238
Horsepen Bayou at Bay Area Blvd., Houston	368
Hubbard Creek below Albany	164-170
Hubbard Creek Reservoir near Breckenridge	178-189
Hunting Bayou at Interstate Highway 610 at Houston	130-132

	Page
Hydrographs:	
Brazos River near South Bend	191
Buffalo Bayou at West Belt Drive, Houston	80
Cowhouse Creek at Pidcoke	274
Hubbard Creek below Albany	165
Hunting Bayou at Interstate 610, Houston	131
North Bosque River at Valley Mills	236
North Bosque River near Clifton	234
Whiteoak Bayou at Houston	91
Hydrologic Benchmark Network	6,16
Hydrologic conditions	2
Hydrologic unit	16
Identifying estimated daily discharge	11
Illustrations	3,4
Instantaneous discharge, definition of	16
Introduction	1
Keegans Bayou, at Keegan Road near Houston	367
at Roark Road near Houston	114
Laboratory measurements	13
Lake Conroe near Conroe	25-31
Lake Georgetown near Georgetown	321-322
Lake Graham near Graham	192
Lake Granbury near Granbury	208-216
Lake Houston near Sheldon	58-69
Lake Limestone near Marquez	347-351
Lake Whitney near Whitney	223-224
Lake Surveys (Water Quality):	
Belton Lake near Belton	279-296
Conroe, Lake, near Conroe	26-31
Granbury, Lake, near Granbury	209-216
Houston, Lake, near Sheldon	59-69
Hubbard Creek Reservoir near Breckenridge	184-189
Limestone, Lake, near Marquez	348-351
Possum Kingdom Lake near Graford	195-202
Proctor Lake near Proctor	256-265
Stillhouse Hollow Lake near Belton	305-318
Lakes and reservoirs:	
Addicks Reservoir near Addicks	76
Aquilla Lake above Aquilla	229
Barker Reservoir near Addicks	73
Belton Lake near Belton	277-296
Conroe, Lake, near Conroe	25-31
Georgetown, Lake, near Georgetown	321-322
Graham, Lake, near Graham	192
Granbury, Lake, near Granbury	208-216
Granger Lake near Granger	326
Houston, Lake, near Sheldon	58-69
Hubbard Creek Reservoir near Breckenridge	178-189
Limestone, Lake, near Marquez	347-351
Moses Lake-Galveston Bay near Texas City	140-141
Possum Kingdom Lake near Graford	193-202
Proctor Lake near Proctor	254-265
Somerville Lake near Somerville	342
Squaw Creek Reservoir near Glen Rose	220
Stillhouse Hollow Lake near Belton	304-318
Waco Lake near Waco	239-240
Whitney, Lake, near Whitney	223-224
LaMarque Levee Pump Station near LaMarque	142-144
Lampasas Rivernear Kempner	300-301
Langham Creek, at West Little York Road near Addicks	75
near Addicks	367
Leon River, at Gatesville	269-270
at north Fort Hood	271,369
near Belton	297-299
near De Leon	248-250
near Hamilton	267-268
near Hasse	266
Little Cypress Creek near Cypress	40
Little River, at Cameron	329-332
near Little River	319-320
near Rockdale	328
Little Whiteoak Bayou at Trimble Street at Houston	367
Low-flow partial-record stations	365-366
definition of	7
Luce Bayou above Lake Houston near Huffman	56-57
Mean concentration, definition of	19
Mean discharge, definition of	16
Metamorphic stage, definition of	17
Methylene blue active substance (MBAS), definition of.	17
Micrograms per gram, definition of	17
Micrograms per liter, definition of	17
Middle Bosque River near McGregor	237
Middle Yegua Creek near Dime Box	338
Millers Creek near Munday	159
Milligrams of carbon per area or volume per unit time	18
Milligrams of oxygen per area or volume per unit time	18
Milligrams per liter, definition of	17
Miscellaneous sampling sites	11
Moses Lake-Galveston Bay near Texas City	140-141
National Stream-quality accounting network (NASQAN), definition of	6,17
National Trends Network (NTN), definition of	6,17
National Water-Quality Assessment (NAWQA) Program	6
Natural substrate, definition of	20
Navasota River, above Groesbeck	345
near Bryan	354
near Easterly	352-353
Nolan River at Blum	222
North Bosque River, at Hico	232
at Valley Mills	235-236
near Clifton	233-234
North Fork San Gabriel River, near Georgetown	323
upstream from State Highway 418 at Georgetown	365
On-site measurements and sample collection	12
Organic mass, definition of	15
Organism, definition of	17
Organism count/area, definition of	17
Organism count/volume, definition of	17
Other records available	11
Paluxy River at Glen Rose	219
Parameter code, definition of	17
Partial-record station, definition of	11,17
Partial-record stations, crest-stage	367-368
low-flow	365-366
Particle size, definition of	17
Particle-size classification, definition of	17
Percent composition, definition of	18
Periphyton, definition of	18
Pesticides, definition of	18
Phytoplankton, definition of	18
Picocurie, definition of	18
Plankton, definition of	18
Polychlorinated biphenyls (PCBs), definition of	18
Possum Kingdom Lake near Graford	193-202
Primary productivity, definition of	18
Proctor Lake near Proctor	254-265
Publication of techniques of water-resources investigations	21
Radiochemical program	6,18
Records, accuracy of	11
arrangement of	11
classification of	11
explanation of	6
of stage and water discharge	7
of surface-water quality	11
other available	11
Recoverable from bottom material, definition of	19
Remark codes	14
Reservoirs. See Lakes and reservoirs.	
Return period, definition of	19
Running Water Draw near Clovis, N. Mex.	368
Runoff in inches, definition of	19
Sabana River near De Leon	251-253
Salado Creek, above Salado	365
below Salado Springs	365
Salt Fork Brazos River near Aspermont	154-155
San Bernard River Basin, gaging-stations records in	363
San Bernard River near Boling	363
San Gabriel River, at Georgetown	365
at Laneport	327
near Weir	366
San Jacinto River near Sheldon	70-71
San Jacinto River Basin, crest-stage partial-record stations in	367
gaging-station records in	25-138
Sea level, definition of	19
Sediment, collection and examination	12
definition of	19
Sims Bayou, at Hiram Clarke Street, Houston	119
at Houston	120-126
Sodium adsorption ratio (SAR), definition of	19
Solute, definition of	19

	Page
Somerville Lake near Somerville	342
South Fork Rocky Creek near Briggs	302-303
South Fork San Gabriel River at Georgetown	324
upstream from State Highway 418 at Georgetown	365
South Mayde Creek near Addicks	367
Special networks and programs	6
Specific conductance, definition of	19
Spring Creek at Spring	36-37
Squaw Creek near Glen Rose	221
Squaw Creek Reservoir near Glen Rose	220
Stage-discharge relation, definition of	19
Station identification numbers	6
Station manuscript	8
Statistics of monthly mean data	9
Stillhouse Hollow Lake near Belton	304-318
Streamflow, definition of	2,19
yearly summary	2
Substrate, definition of	20
Summary statistics	9
Supplementary gage, definition of	16
Surface area, definition of	20
Surficial bed matrerial, definition of	20
Suspended (as used in tables of chemical analyses), definition of	20
Suspended, recoverable, definition of	20
Suspended sediment, definition of	19
Suspended-sediment, concentration, definition of	19
discharge, definition of	19
load, definition of	19
Suspended, total, definition of	20
Taxonomy, definition of	20
Thermograph, definition of	20
Time-weighted average, definition of	20
Tons per acre-foot, definition of	20
Tons per day, definition of	20
Total coliform bacteria, definition of	15
Total (in tables of chemical analyses), definition of	20
Total discharge, definition of	21
Total organism count, definition of	17
Total, recoverable, definition of	21
Total sediment discharge, definition of	19
Total sediment load, definition of	19
Tritium network	6,21
Turkey Creek near Friendwood	368
Vince Bayou at Pasadena	129
Waco Lake near Waco	239-240
Water quality yearly summary	5
Water temperature	12
Water year, definition of	21
WATSTORE data, access to	14
WDR, definition of	21
Weighted average, definition of	21
West Fork San Jacinto River, above Lake Houston near Porter	34-35
below Lake Conroe near Conroe	32
near Conroe	33
Wet mass, definition of	15
Whiteoak Bayou, at Alabonson Road at Houston	367
at Houston	90-92
at Main Street, Houston	93-99
Willow Creek near Tomball	367
WSP, definition of	21
Yegua Creek near Sommerville	369
Zooplankton, definition of	18

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

USGS LIBRARY - RESTON
3 1818 00237327 0

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
8011 Cameron Road, Building 1
Austin, TX 78753