

TEXAS BOARD OF WATER ENGINEERS

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**TEXAS
INDEX OF SURFACE WATER RECORDS
1882-1951**

**DISCHARGE, SEDIMENT, CHEMICAL QUALITY,
AND WATER TEMPERATURE**

Prepared cooperatively by the Geological Survey,
United States Department of the Interior
under the direction of C. E. Ellsworth,
District Engineer

May 1952

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AND WATER TEMPERATURE

INTRODUCTION

The purpose of this report is to provide a convenient index of basic data on Texas streams and reservoirs during the years 1882 to 1951. Included are records of flow, stage, contents, temperature, chemical quality, and sediment load. These records have been collected on a continuous or periodic basis at stations maintained by the U. S. Geological Survey, the Texas State Board of Water Engineers, and other agencies.

The first stream flow station in Texas was established by the U. S. Geological Survey on the Rio Grande at El Paso in 1889. A few miscellaneous records of stream flow were collected prior to that time. In 1897 a systematic study was begun by the U. S. Geological Survey on some central Texas streams; however, not until 1915, when the Texas Legislature appropriated funds for stream measurement investigations by the Texas State Board of Water Engineers, was a substantial beginning made toward the systematic collection of stream flow records. In the same year the State Board of Water Engineers entered into an agreement with the U. S. Geological Survey for cooperative investigations of the water resources of the State. These cooperative investigations have continued to date.

In recent years, the State Board of Water Engineers and the U. S. Geological Survey have expanded investigations through cooperation with the Corps of Engineers, U. S. Army; the Bureau of Reclamation, U. S. Department of Interior; the Soil Conservation Service, U. S. Department of Agriculture; and several River Authorities and other political subdivisions of the State of Texas.

The Weather Bureau, U. S. Department of Commerce, maintains a network of river stage stations for flood forecasting operations. Such stations common to the Weather Bureau and the U. S. Geological Survey are maintained and operated jointly for the sake of efficiency and economy. At some of the stations, records of stage collected by the Weather Bureau extend beyond the period of discharge records collected by the U. S. Geological Survey. The index includes such Weather Bureau records even though they are published only in official publications of the Weather Bureau.

Subsequent to July 1931 the International Boundary and Water Commission, United States and Mexico, assumed the operation of all stream flow stations on the Rio Grande and near the mouth of its

tributaries. Records collected by that agency are published in its annual series of Water Bulletins. These records are included in the index to provide information on this important river basin.

The Soil Conservation Service, U. S. Department of Agriculture, has maintained a cooperative sediment program with the State Board of Water Engineers for many years. Records collected under this program have been published by those agencies.

The U. S. Geological Survey is the principal Federal agency that collects and publishes basic data on stream flow, stage, chemical quality, water temperature, and reservoir content of Texas streams. These data, with few exceptions, have been published in U. S. Geological Survey publications and in special reports of the State Board of Water Engineers.

Data contained in this report were compiled from official publications and files of the U. S. Geological Survey, U. S. Soil Conservation Service, U. S. Weather Bureau, International Boundary and Water Commission, and the State Board of Water Engineers.

EXPLANATION

The index lists the stations in downstream order adopted by the U. S. Geological Survey in 1951 and shows graphically the periods for which records of stream flow, stage, chemical quality, water temperature, reservoir content, and sediment load are available.

Station names are those given in the most recent publications. Parentheses around part of a station name indicate that the enclosed words were used in an earlier publication.

Breaks of less than twelve months in the periods of record are not shown. No attempt was made to identify partial years at the beginning or ending of a period of record but any year having a partial record was shown in the index. No indication was made as to whether a record is continuous or periodic, or as to its accuracy. The primary intent is to show that certain types of records are available at the locations for the indicated periods.

Surface water records listed herein are found in the files or in publications of the U. S. Geological Survey, the International Boundary and Water Commission, the U. S. Weather Bureau, and the U. S. Geological Survey's cooperating agencies.

Compilation of the index was made from U. S. Geological Survey's Surface Water district office files and the following publications:

Index of Surface Water Records, U. S. Geological Survey
Circulars No. 112 and 144.

Inventory of Published and Unpublished Chemical Analyses of Surface Waters in the Western United States; compiled under auspices of Subcommittee on Hydrologic Data, Federal Inter-Agency River Basin Committee, October 1948.

Inventory of Published and Unpublished Sediment-Load Data in the United States, compiled under the auspices of Subcommittee on Sedimentation, Federal Inter-Agency River Basin Committee, April 1949.

Flow of the Rio Grande and Tributary Contribution, International Boundary and Water Commission Water Bulletins No. 1-18.

The Rio Grande portion of the index was corrected to 1950 in the El Paso Office of the International Boundary and Water Commission.

U. S. Weather Bureau records were compiled from current lists submitted by the various district offices in this region.

The Index was compiled under the direction of C. E. Ellsworth, District Engineer, Austin, Texas, by P. H. Holland and C. Ruth Swanson.

RED RIVER BASIN

Index of records collected by the U.S. Geological Survey and other agencies at the same location
Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years

(Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1916	1916	1920	1925	1936	1936	1945	1945	1950	Stream and Location
23															Lake Kemp near Wabell, Tex.
24															Wichita River at Wichita Falls, Tex.
25															Lake Kickapoo near Archer City, Tex.
26															Little Wichita River near Archer City, Tex.
27															Red River near Terral, Okla.
28															Red River near Gainesville, Tex.
29															Lake Texoma near Denison, Tex.
30															Red River near Colbert, Okla. (Denison, Tex.)
31															Red River at Arthur City, Tex.
32															Red River at Index, Ark.
33															South Sulphur River near Cooper, Tex.
34															North Sulphur River near Cooper, Tex.
35															Whiteoak Creek near (below) Talco, Tex.
36															Sulphur River near Darden, Tex.
37															Cypress Creek near Pittsburg, Tex.
38															Boggy Creek near Dangersfield, Tex.
39															Ellison Creek Reservoir near Dangersfield, Tex.
40															Cypress Creek near Jefferson, Tex.
40a															Black Cypress Bayou near Karnack, Tex.

Discharge
 Gage heights only
 Gage heights and discharge measurements
 Periodic discharge measurements
 Water temperature
 Sediment
 Chemical quality
 Reservoir contents

NECHES RIVER BASIN

Index of records collected by the U.S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
57									■						Neches River near Reese, Tex. ✓
58												■	■	■	Neches River near Neches, Tex. ✓
59													■	■	Neches River near Alto, Tex. ✓
60									■			■	■	■	Neches River near Diboll, Tex. ✓
61				■	■	■	■	■	■	■	■	■	■	■	Neches River near Rockland, Tex. ✓
62														■	Lake Tyler near Whitehouse, Tex.
63												■	■	■	Mud Creek near Jacksonville, Tex. ✓
64									■						Mud Creek at Ponta, Tex. ✓
65												■			Bowles Creek seepage investigation
66												■	■	■	Striker Creek near Summerfield, Tex. ✓
67												■	■	■	Angelina River near Alto, Tex. ✓
68									■	■	■	■	■	■	Angelina River near Lufkin, Tex. ✓
69												■			Arenoso Creek near San Augustine, Tex. <i>out</i>
70									■			■	■	■	Attoyac Bayou near Chireno, Tex. <i>2</i>
71									■						Ayish Bayou at San Augustine, Tex. <i>out</i>
72									■	■	■	■	■	■	Angelina River at Horgan, Tex. ✓
73														■	Dam B Reservoir at Town Bluff, Tex.
74														■	Neches River at Town Bluff, Tex.

Discharge ■ Gage heights only ■ Gage heights and discharge measurements ■ Periodic discharge measurements ■
 Reservoir contents ■ Sediment ■ Chemical quality ■ Water temperature ■

SAN JACINTO RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
125															San Jacinto River, West Fork (San Jacinto River) near Conroe, Tex. ✓
126															Spring Creek near Spring, Tex. ✓
127															Cypress Creek near Westfield, Tex. ✓
128															San Jacinto River, West Fork (San Jacinto River) near Humble, Tex. ✓
129															East Fork San Jacinto River near Cleveland, Tex. ✓
130															Peach Creek at Splendora, Tex. ✓
131															Caney Creek near Splendora, Tex. ✓
132															San Jacinto River near Huffman, Tex. ✓
133															Barker Reservoir near Addicks, Tex.
134															Addicks Reservoir near Addicks, Tex.
135															Buffalo Bayou near Addicks, Tex. ✓
136															Buffalo Bayou at Houston, Tex. ✓
137															Whiteoak Bayou at Houston, Tex. ✓
138															Brays Bayou at Houston, Tex. ✓

Discharge
 Gage heights only
 Gage heights and discharge measurements
 Periodic discharge measurements
 Reservoir contents
 Sediment
 Chemical quality
 Water temperature

CLEAR CREEK, CHOCOLATE BAYOU, BASTROP BAYOU, & OYSTER CREEK BASINS

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	Stream and Location	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950
	<u>Clear Creek Basin</u>														
139	Clear Creek near Pearland, Tex. <i>out</i>														
140	Hickory Slough near Pearland, Tex. <i>out</i>														
	<u>Chocolate Bayou Basin</u>														
141	Chocolate Bayou near Alvin, Tex. <i>out</i>														
	<u>Bastrop Bayou Basin</u>														
142	Austin Bayou near Danbury, Tex. <i>out</i>														
	<u>Oyster Creek Basin</u>														
143	Oyster Creek near Angleton, Tex. <i>out</i>														

Discharge
 Gage heights only
 Gage heights and discharge measurements
 Periodic discharge measurements
 Reservoir contents
 Sediment
 Chemical quality
 Water temperature

BRAZOS RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
144												█			Brazos River, Double Mountain Fork, at Lubbock, Tex.
145														█	Brazos River, Double Mountain Fork, near Rotan, Tex.
146								█	█	█		█	█	█	Brazos River, Double Mountain Fork, near Aspermont, Tex.
147												█			White River at Plainview, Tex.
148														█	Salt Fork Brazos River near Peacock, Tex.
149								█	█			█	█	█	Salt Fork Brazos River near Aspermont, Tex.
150								█	█	█		█		█	Brazos River at Seymour, Tex.
151							█	█							Brazos River near Graham, Tex.
152												▨			Fort Phantom Hill Reservoir near Nugent, Tex.
153								█	█	█		█	█	█	Clear Fork Brazos River at Nugent, Tex.
154														█	Paint Creek near Haskell, Tex.
155								█	█	█		█	█	█	Clear Fork Brazos River at Fort Griffin, Tex.
156								█	█	█				█	Clear Fork Brazos River at Crystal Falls, Tex.
157										█	█	█	█	█	Clear Fork Brazos River near Crystal Falls, Tex.
158							█	█	█						Clear Fork Brazos River near Eliasville, Tex.
159												█	█	█	Brazos River near South Bend, Tex.
160												▨	▨	▨	Possum Kingdom Reservoir near Graford, Tex.
161										█	█	█	█	█	Brazos River near Palo Pinto, Tex.

Discharge █ Gage heights only ▨ Gage heights and discharge measurements ▨ Periodic discharge measurements ▨
 Reservoir contents ▨ Sediment ▨ Chemical quality █ Water temperature ▨

BRAZOS RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
162									█	█	█	█	█	█	Brazos River near Mineral Wells, Tex.
163						█	█	█	█	█	█	█	█	█	Brazos River at Brazos, Tex.
164									█					█	Palo Pinto Creek near Santo, Tex.
165									█	█	█	█	█	█	Brazos River near Glen Rose, Tex.
166									█				█	█	Paluxy Creek at Glen Rose, Tex.
167									█				█	█	Nolands River at Blum, Tex.
168												█	█	█	Brazos River near Whitney, Tex.
169									█			█	█	█	Aquilla Creek near Aquilla, Tex.
170									█	█	█	█	█	█	North Bosque River near Clifton, Tex.
171									█	█				█	South Bosque River near Speegleville, Tex.
172				█	█	█	█	█	█	█	█	█	█	█	Brazos River at Waco, Tex.
173												█	█	█	Brazos River near Marlin, Tex.
174										█	█				Deer Creek at Chilton, Tex.
175														█	Leon River near Eastland, Tex.
176												█	█	█	Leon River near Hasse, Tex.
177									█	█					Leon River near Hamilton, Tex.
178														█	Leon River at Gatesville, Tex.
179														█	Cowhouse Creek near Pidcoke, Tex.

Discharge █ Gage heights only █ Gage heights and discharge measurements █ Periodic discharge measurements █
 Reservoir contents █ Sediment █ Chemical quality █ Water temperature █

BRAZOS RIVER BASIN

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 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
180									█			█			Cowhouse Creek near Killeen, Tex.
181									█	█	█	█	█	█	Leon River near Belton, Tex.
182														█	Leon River seepage investigation
183													█		Sulphur Creek seepage investigation
184									█	█	█	█	█	█	Lampasas River at Youngsfort, Tex. *
185									█	█	█	█	█	█	Little River near Little River, Tex.
186									█			█	█	█	San Gabriel River at Georgetown, Tex.
187									█	█	█	█	█	█	San Gabriel River at Circleville, Tex.
188									█	█					Brushy Creek at Coupland, Tex.
189								█	█	█	█	█	█	█	Little River at Cameron, Tex.
190											█	█	█	█	Big Elm Creek near Temple, Tex.
191											█	█	█	█	Big Elm Creek near Buckholtz, Tex.
192											█	█	█	█	North Elm Creek near Ben Arnold, Tex.
193				█	█	█	█	█	█	█	█	█	█	█	Brazos River near Valley Junction (Lewis), Tex.
194									█	█	█	█	█	█	Brazos River near Bryan, Tex.
195				█	█	█	█	█	█	█	█	█	█	█	Brazos River near College Station, Tex.
196									█	█	█	█	█	█	Yegua Creek near Somerville, Tex.
197									█	█	█	█	█	█	Navosota River near Easterly, Tex.
															* Quality samples collected near Belton, 19 miles downstream.

Discharge █ Gage heights only ||||| Gage heights and discharge measurements ████ Periodic discharge measurements ██████
 Reservoir contents █████ Sediment ████████ Chemical quality █████ Water temperature |||||

BRAZOS RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
198															Navasota River near Bryan, Tex.
199															Brazos River near Hempstead, Tex.
200															Brazos River near San Felipe, Tex.
201															American Canal Co.'s Canal (Brazos Valley Irrigation Co.'s Canal), near Fulshear, Tex.
202															Brazos River at Rosenberg, Tex.
203															Richmond Irrigation Co.'s Canal near Richmond, Tex.
204															Brazos River at Richmond, Tex.
205															Brazos River near Juliff, Tex.
206															Dry Creek near Richmond, Tex.
207															Big Creek near Needville, Tex.
208															Fairchild Creek near Needville, Tex.
209															Big Creek near Guy, Tex.
210															Brazos River at East Columbia, Tex.

Discharge Gage heights only Gage heights and discharge measurements Periodic discharge measurements
 Reservoir contents Sediment Chemical quality Water temperature

COLORADO RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
211															Colorado River (above Bull Creek) near Knapp, Tex.
212														■	Bull Creek near Ira, Tex.
213														■	Bluff Creek near Ira, Tex.
214														■	Colorado River near Ira, Tex.
215								■	■						Deep Creek near Snyder, Tex.
216								■	■					■	Colorado River at Colorado City (Colorado), Tex.
217														■	Morgan Creek near Colorado City, Tex.
218														■	Lake Colorado City near Colorado City, Tex.
219														■	Champlin Creek near Colorado City, Tex.
220												■	■	■	Colorado River at Robert Lee, Tex.
221									■	■					Colorado River near Robert Lee, Tex.
222							■	■	■						Colorado River near Bronte, Tex.
223														■	Oak Creek near Blackwell, Tex.
224				■	■	■	■	■	■	■	■	■	■	■	Colorado River at Ballinger, Tex.
225										■	■	■	■	■	Elm Creek at Ballinger, Tex.
226								■	■	■	■	■	■	■	South Concho Irrigation Co.'s Canal at Christoval, Tex.
227										■	■	■	■	■	South Concho River (head of Concho River) at Christoval, Tex.
228										■	■	■	■	■	Middle Concho River near Tankersly, Tex.

Discharge ■■■■■■ Gage heights only ||||| Gage heights and discharge measurements ■■■■■■ Periodic discharge measurements ■■■■■■
 Reservoir contents ■■■■■■ Sediment ○○○○○○○○○○ Chemical quality ■■■■■■ Water temperature ■■■■■■

COLORADO RIVER BASIN

Index of records collected by the U.S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
229								■							Middle Concho River seepage investigations
230													■	■	Dove Creek Springs near Knickerbocker, Tex.
231													■	■	Dove Creek near Knickerbocker, Tex.
232									■					■	Dove Creek seepage investigation
233										■	■	■	■	■	Spring Creek near Tankersly, Tex.
234								■						■	Spring Creek seepage investigations
235										▨	▨	▨	▨	▨	Lake Nasworthy near San Angelo, Tex.
236										■	■	■	■	■	South Concho River at San Angelo, Tex.
237								■						■	South Concho River seepage investigations
238													■	■	North Concho River at Sterling City, Tex.
239									■	■	■	■	■	■	North Concho River near Carlsbad, Tex.
240							■	■	■	■	■	■	■	■	North Concho River at San Angelo, Tex.
241								■						■	North Concho River seepage investigations
242								■	■	■	■	■	■	■	Concho River near San Angelo, Tex.
243								■	■	■	■	■	■	■	Concho River near Paint Rock, Tex.
244								■						■	Concho River seepage investigations
245													■	■	Mukewater Creek at Trickham, Tex.
246													■	■	Colorado River at Winchell, Tex.

Discharge ■ Gage heights only ▨ Gage heights and discharge measurements ▨ Periodic discharge measurements ▨
 Reservoir contents ▨ Sediment ▨ Chemical quality ▨ Water temperature ▨

COLORADO RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
247									█	█	█				Colorado River near Milburn, Tex.
248														█	Dry Prong Deep Creek near Mercury, Tex.
249														▨	Hords Creek Reservoir near Valera, Tex.
250													█	█	Hords Creek near Valera, Tex.
251												█	█	█	Hords Creek at Coleman, Tex.
252									▨	▨	▨	▨	▨	▨	Brownwood Reservoir near Brownwood, Tex.
253														▨	Brown County Water Improvement District No. 1 Canal near Brownwood, Tex.
254							█	█	█	█	█	█	█	█	Pecan Bayou at Brownwood, Tex.
255								█	█	█	█	█	█	█	Noyes Canal at Menard, Tex.
256							█	█	█	█	█	█	█	█	San Saba River at Menard, Tex.
257												█	█	█	Brady Creek at Brady, Tex.
258					█	█	█	█	█	█	█	█	█	█	San Saba River near San Saba, Tex.
259														█	San Saba River at San Saba, Tex.
260														█	San Saba River seepage investigations
261							█	█	█	█	█	█	█	█	Colorado River near San Saba (Chadwick), Tex.
262								█	█	█	█	█	█	█	Colorado River near Tow, Tex.
263												▨	▨	▨	Buchanan Reservoir near Burnet, Tex.
264													█	█	Colorado River (below Inks Dam) near Burnet, Tex.

Discharge █ Gage heights only ▨ Gage heights and discharge measurements ▨ Periodic discharge measurements ▨
 Reservoir contents ▨ Sediment ▨ Chemical quality ▨ Water temperature ▨

COLORADO RIVER BASIN

Index of records collected by the U.S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
265							█	█	█	█	█	█	█	█	North Llano River near Junction, Tex.
266									█						North Llano River seepage investigation
267								█		█					South Llano River seepage investigations
268							█	█	█	█	█	█	█	█	Llano River near Junction, Tex.
269									█						Johnson Fork Llano River seepage investigation
270									█	█	█	█	█	█	Llano River near Castell, Tex.
271													█	█	Llano River at Llano, Tex.
272								█		█					Llano River seepage investigations
273							█	█	█	█	█	█	█	█	Colorado River at Marble Falls, Tex.
274									█	█	█	█	█	█	Pedernales River at Stonewall, Tex.
275													█	█	Pedernales River near Johnson City, Tex.
276									█	█	█	█	█	█	Pedernales River near Spicewood, Tex.
277													██████████	██████████	Lake Travis near Austin, Tex.
278															Colorado River at dam above Austin, Tex.
279			██████████	██████████	██████████	██████████	██████████	██████████	██████████	██████████	██████████	██████████	██████████	██████████	Barton Springs at Austin, Tex.
280				█	█				█	█	█	█	█	█	Mill Spring (Old Mill Spring) at Austin, Tex.
281							█								Barton Creek at Austin, Tex.

Discharge █ Gage heights only ||||| Gage heights and discharge measurements ██████████ Periodic discharge measurements ██████████
 Reservoir contents ██████████ Sediment ██████████ Chemical quality ██████████ Water temperature ██████████

GUADALUPE RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
298															Guadalupe River at Hunt, Tex.
299															Johnson Creek near Ingram, Tex.
300															Guadalupe River near Comfort, Tex.
301															Guadalupe River at Comfort, Tex.
302															Guadalupe River near Spring Branch, Tex.
303															Hueco Springs near New Braunfels, Tex.
304															Guadalupe River above Comal River, at New Braunfels, Tex.
305															Comal River at New Braunfels, Tex.
306															Guadalupe River at New Braunfels, Tex.
307															San Marcos Springs at San Marcos, Tex.
308															San Marcos River at San Marcos, Tex.
309															Blanco River at Wimberley, Tex.
310															Blanco River seepage investigation
311															San Marcos River at Luling, Tex.
312															Plum Creek near Lockhart, Tex.
313															Plum Creek near Luling, Tex.
314															San Marcos River at Ottine, Tex.
315															Guadalupe River near Gonzales, Tex.

Discharge Gage heights only Gage heights and discharge measurements Periodic discharge measurements
 Reservoir contents Sediment Chemical quality Water temperature

GUADALUPE RIVER BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
316										█	█				Peach Creek near Dilworth, Tex.
317										█	█				Sandies Creek near Westhoff, Tex.
318				█	█		█								Guadalupe River near Cuero, Tex.
319							█	█	█	█	█				Guadalupe River below Cuero, Tex.
320															Guadalupe River at Victoria, Tex.
321										█	█				Coleta Creek near Schroeder, Tex.
322												█	█	█	Coleta Creek near Victoria, Tex.
323							█	█	█	█		█	█	█	San Antonio River at San Antonio, Tex.
324							█	█	█	█					San Pedro Creek at San Antonio, Tex.
325								█	█	█	█				Medina River near Pipe Creek, Tex.
326							//////	//////	//////	//////	//////	//////	//////	//////	Medina Reservoir (Lake) near San Antonio, Tex.
327								█	█	█	█				Medina Canal near Riomedina, Tex.
328								█	█	█	█				Medina River near Riomedina, Tex.
329								█	█	█	█				Medina River seepage past station near Riomedina, Tex.
330												█	█	█	Medina River near San Antonio, Tex.
331									█	█					Medina River seepage investigations
332								█	█						San Antonio River at Calaveras, Tex.
333										█	█	█	█	█	San Antonio River near Falls City, Tex.

Discharge █ Gage heights only ||||| Gage heights and discharge measurements // Periodic discharge measurements |||||
 Reservoir contents //// Sediment ||||| Chemical quality █ Water temperature |||||

RIO GRANDE BASIN

Index of records collected by the U.S. Geological Survey and other agencies at the same location
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 (Index does not identify partial year records)

No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
375		█	█	█	█	█	█	█	█	█	█	█	█	█	Rio Grande near El Paso, Tex. **
376												█	█	█	Diversions from the Rio Grande into The American Canal at El Paso, Tex. **
377												█	█	█	Rio Grande below American Dam, Tex. **
378												█	█	█	Diversions from the Rio Grande into Acquia Madre (Mexican Canal) near Juarez, Chih., Mex. **
379												█	█	█	Rio Grande at Cd. Juarez, Chih., Mex. **
380												█	█	█	Rio Grande at Island Station near El Paso, Tex. **
381									█	█	█	█	█	█	Rio Grande at Tornillo Bridge near Fabens, Tex. **
382												█	█	█	Diversions from the Rio Grande in the El Paso Valley, Tex. **
383										█	█	█	█	█	Tornillo drain at mouth at Alamo Alto, Tex.
384										█	█	█	█	█	Tornillo Canal at wasteway near Alamo Alto, Tex.
385										█	█	█	█	█	Hudspeth Canal at head near Alamo Alto, Tex.
386												█	█	█	Rio Grande at County Line Station near El Paso, Tex. **
387				█	█										Rio Grande near Fort Hancock, Tex. **
388									█	█	█	█	█	█	Rio Grande below Old Fort Quitman near Finlay, Tex. **
389											█	█	█	█	Rio Grande at La Nutria, Tex. **
390				█	█	█	█	█	█	█	█	█	█	█	Rio Grande above Presidio, Tex. (Upper Presidio) **
391												█	█	█	Diversions from Rio Grande between Upper and Lower Presidio Stations, Tex. **
392													█	█	Rio Conchos at Cuchillo Parado, Chih., Mex. **

Discharge █ Gage heights only ||||| Gage heights and discharge measurements ████ Periodic discharge measurements ██████
 Reservoir contents ██████ Sediment ○○○○○○ Chemical quality ██████ Water temperature ██████

RIO GRANDE BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
 Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years
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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
393									■	■	■	■	■	■	Rio Conchos near Ojinaga, Chih., Mex. **
394				■	■	■	■	■	■	■	■	■	■	■	Rio Grande above Presidio, Tex. (Lower Presidio) **
395										■	■	■	■	■	Alamito Creek near Presidio, Tex. **
396										■	■	■	■	■	Terlinqua, Creek near Terlinqua, Tex. **
397											■	■	■	■	Rio Grande at Johnson Ranch, Tex. **
398									■	■	■	■	■	■	Rio Grande at Boquillas, Tex. **
399													■	■	Rio Grande at Special Stations in the Big Bend, Tex. **
400											■	■	■	■	Lozier Creek near Langtry, Tex. **
401				■	■	■	■	■	■	■	■	■	■	■	Rio Grande at Langtry, Tex. **
402												■	■	■	Pecos River at Red Bluff, N. Mex.
403							■	■	■	■	■	■	■	■	Delaware River near Malaga, N. Mex.
404							■	■	■	■	■	■	■	■	Delaware River near Red Bluff, N. Mex.
405							■	■	■	■	■	■	■	■	Delaware River near Angeles, Tex.
406							■	■	■	■	■	■	■	■	Pecos River near Angeles, Tex.
407											■	■	■	■	Red Bluff Reservoir near Orla, Tex.
408											■	■	■	■	Seepage below east side Red Bluff Dam near Orla, Tex.
409											■	■	■	■	Seepage below west side Red Bluff Dam near Orla, Tex.
410											■	■	■	■	Salt (Screwbean) Draw near Orla, Tex.

Discharge ■ Gage heights only ■■■■■■■■■■ Gage heights and discharge measurements ■■■■■■■■■■ Periodic discharge measurements ■■■■■■■■■■
 Reservoir contents ■■■■■■■■■■ Sediment ■■■■■■■■■■ Chemical quality ■■■■■■■■■■ Water temperature ■■■■■■■■■■

RIO GRANDE BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
411															John Camp pump near Orla, Tex.
412												█	█	█	Pecos River near Orla, Tex.
413															Joe B. Neel pump near Riverton, Tex.
414															M. R. Estes pump near Mentone, Tex.
415								█	█						Pecos River near Porterville, Tex.
416								█	█						Reeves County W. I. D. No. 2 Canal near Mentone (Farmers Independent Canal near Porterville), Tex.
417															Ward County Water Improvement District No. 3 Canal near Barstow, Tex.
418								█	█						Cedarvale Canal near Barstow, Tex.
419								█	█						Boxley Canal near Barstow, Tex.
420								█	█						Pecos River above Barstow (above Barstow Canal), Tex.
421				█	█	█									Margueretta flume near Pecos, Tex.
422					█										West Valley ditch near Pecos, Tex.
423								█	█						Ward County Irrigation District No. 1 Canal (Barstow Canal), near Barstow, Tex.
424															Drainage into Soda Lake near Barstow, Tex.
425								█	█						Pecos River above Barstow (below Barstow Canal), Tex.
426				█	█	█									Pecos River near Pecos, Tex.
427															Reeves County Water Improvement District No. 2 Canal wasteway near Pecos, Tex.
428															Pecos River at Pecos, Tex.

Discharge Gage heights only Gage heights and discharge measurements Periodic discharge measurements
 Reservoir contents Sediment Chemical quality Water temperature

RIO GRANDE BASIN

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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
429												■			John T. Yarborough pump near Pecos, Tex.
430												■			Ward County Irrigation District No. 1 lateral No. 1 wasteway near Pecos, Tex.
431												■	■		Barstow drainage ditch No. 1 near Barstow, Tex.
432							■								Pecos River near Barstow, Tex.
433												■			Rock Quarry Draw near Barstow, Tex.
434									■			■	■		Barstow drainage ditch below confluence of ditches 2, 3, and 4 near Barstow, Tex.
435												■			Ward County Irrigation District No. 1 Canal wasteway below Barstow, Tex.
436											■	■	■	■	Madera Canyon (head of Toyah Creek) near Toyahvale, Tex.
437										■					Madera Canyon seepage investigation
438										○	○	○	○	○	Phantom Lake Spring near Toyahvale, Tex.
439										■					Little Aguja Canyon seepage investigation
440										■					Big Aguja Canyon seepage investigation
441										○	○	○	○	○	Giffin Springs at Toyahvale, Tex.
442										○	○	○	○	○	San Solomon Springs at Toyahvale, Tex.
443										■	■	■			Reeves County Water Improvement District No. 1 seepage investigations
444										■	■				Reservoir Outlet Canal of Reeves County Water Improvement District No. 1 seepage investigation
445										■			■	■	West Sandia Spring at Balmorhea, Tex.
446										■					West Sandia Creek seepage investigation

Discharge ■ Gage heights only ▤ Gage heights and discharge measurements ▩ Periodic discharge measurements ▨
 Reservoir contents ▩ Sediment ▩ Chemical quality ○ Water temperature ▨

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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
447										■			■		East Sandia Spring at Balmorhea, Tex.
448										■					Cherry Canyon seepage investigation
449												■	■		Toyah Creek near Pecos, Tex.
450												■	■		Salt Draw near Pecos, Tex.
451									■	■					Limpia Creek (head of Barrilla Creek) near Fort Davis, Tex.
452										■					Limpia Creek seepage investigation
453									■	■					Barrilla Creek near Saragosa, Tex.
454															Barrilla Creek near Pecos, Tex.
455												■	■	■	Toyah Creek below Toyah Lake near Pecos, Tex.
456										■					Toyah Creek seepage investigation
457									■	■				■	Grandfalls-Big Valley Canal near Barstow, Tex.
458												■	■		Pecos River below Barstow, Tex.
459												■			E. W. Pate pump near Grandfalls, Tex.
460									■	■				■	Pecos County W. I. D. No. 2 upper diversion Canal (Imperial Highline Canal), near Grandfalls, Tex.
461												■	■	■	Ward County Water Improvement District No. 2 Canal near Grandfalls, Tex.
462									■	■					Pecos County W. I. D. No. 2 lower diversion Canal (Imperial Lowline Canal), near Grandfalls, Tex.
463												■	■	■	Pecos County Water Improvement District No. 2 Canal near Imperial, Tex.
464												■			Pecos County Water Improvement District No. 2 west lateral wasteway near Buena Vista, Tex.

Discharge ■ Gage heights only ■■■■■■■■■■ Gage heights and discharge measurements ■■■■■■■■■■ Periodic discharge measurements ■■■■■■■■■■
 Reservoir contents ■■■■■■■■■■ Sediment ■■■■■■■■■■ Chemical quality ■■■■■■■■■■ Water temperature ■■■■■■■■■■

RIO GRANDE BASIN

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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
465							■	■	■	■		■			Pecos River near Grandfalls, Tex.
466												■			Pecos County Water Improvement District No. 3 Canal near Grandfalls, Tex.
467												■	■	■	Pecos County Water Improvement District No. 3 Canal near Imperial, Tex.
468												■			Pecos County Water Improvement District No. 3 Canal below Buena Vista, Tex.
469												■			Ward County Water Improvement District No. 2 lateral No. 2 wasteway below Grandfalls, Tex.
470												■			Ward County Water Improvement District No. 2 Canal wasteway below Grandfalls, Tex.
471												■	■	■	Pecos River below Grandfalls, Tex.
472								■	■	■					Pecos River near Buena Vista, Tex.
473													■	■	Leon Springs and flowing wells, 8 miles west of Fort Stockton, Tex.
474												■			Pecos County Water Improvement District No. 2 east lateral wasteway below Buena Vista, Tex.
475												■			Pecos County Water Improvement District No. 3 Canal wasteway below Buena Vista, Tex.
476												■	■	■	Drainage from Powell Lake below Buena Vista, Tex.
477										■	■	■	■	■	Comanche Springs at Fort Stockton, Tex.
478													■	■	San Pedro Springs 7 miles northeast of Fort Stockton, Tex.
479												■			Seepage investigations on canals in Comanche Creek basin, Pecos County, Tex.
480												■	■	■	Pecos River near Girvin, Tex.
481								■	■	■		■	■	■	Pecos River near Sheffield, Tex.
482				■	■	■	■	■	■	■	■	■	■	■	Pecos River near Comstock (Moorhead), Tex. **

Discharge ■ Gage heights only ▤ Gage heights and discharge measurements ▨ Periodic discharge measurements ▩
 Reservoir contents ▩ Sediment ▩ Chemical quality ▩ Water temperature ▩

RIO GRANDE BASIN

Index of records collected by the U. S. Geological Survey and other agencies at the same location
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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
501											█				Las Moras Creek near Eagle Pass, Tex. **
502											█	█	█	█	Rio San Rodrigo near El Moral (Paso De Las Mulas), Coah., Mex. **
503														█	Return flow to Rio Grande from Maverick Power Plant near Eagle Pass, Tex. **
504				█	█	█	█	█	█	█	█	█	█	█	Rio Grande at Eagle Pass, Tex. **
505											█	█	█	█	Rio Escondido at Villa Fuente, Coah., Mex. **
506				█	█	█	█		█	█	█	█	█	█	Rio Grande at Laredo, Tex. **
507											█	█			Dolores Creek near San Ignacio, Tex. **
508				█	█	█	█		█	█	█	█	█	█	Rio Salado near Guerrero, Tam., Mex. **
509											█	█	█	█	Rio Grande at Zapata, Tex. **
510											█	█			El Tigre Arroyo near Zapata, Tex. **
511											█	█	█	█	Rio Alamo at Cd. Mier "El Paso del Contaro", Tam., Mex. **
512				█	█	█	█	█	█	█	█	█	█	█	Rio Grande at Roma, Tex. **
513				█	█	█	█		█	█	█	█	█	█	Rio San Juan near Santa Rosalia Ranch, Tam., Mex. **
514				█											Rio San Juan at La Quemado, Tam., Mex. **
515													█		Rio San Juan below Azucar Dam, Tam., Mex. **
516														█	Contributions from Rio San Juan above Rio Grande City, Tex. **
517											█	█			Los Olmos Creek near Rio Grande City, Tex. **
518											█	█	█	█	Rio Grande at Rio Grande City, Tex. **

Discharge █ Gage heights only ||||| Gage heights and discharge measurements █ Periodic discharge measurements █
 Reservoir contents █ Sediment █ Chemical quality █ Water temperature █

RIO GRANDE BASIN

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No.	1885	1890	1895	1900	1905	1910	1915	1920	1925	1930	1935	1940	1945	1950	Stream and Location
519															Contributions from Rio San Juan below Rio Grande City, Tex. **
520										█					Goodwin Canal above Penitas, Tex.
521										█					Edinburg Canal at Penitas, Tex.
522									█	█		█	█	█	North Floodway south of McAllen, Tex. **
523												█	█	█	North Floodway near Sebastian, Tex. **
524															Rio Grande at Mission Pumping Plant, near Mission, Tex.
525										█					Mission Canal near Mission, Tex.
526										█					Granjeno Canal near Mission, Tex.
527									█	█		█	█	█	South Floodway south of McAllen, Tex. **
528										█					McAllen Canal near Hidalgo, Tex.
529										█					Rio Bravo Canal near Hidalgo, Tex.
530										█	█	█	█	█	Rio Grande at Hidalgo, Tex. **
531													█	█	Rio Grande at Buenos Aires, Tam., Mex. **
532												█	█	█	Diversions from Rio Grande into the Retamal Canal near Rio Bravo, Tam., Mex. **
533													█	█	Rio Grande at Las Palmas, Tam., Mex. **
534										█	█	█	█	█	Rio Grande at Mercedes Bridge, Tex. **
535												█	█	█	Rio Grande near San Benito, Tex.
536											█	█	█	█	Rancho Viejo Floodway near Brownsville, Tex. **

07

Discharge
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ALPHABETICAL LIST OF STREAMS AND RESERVOIRS

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