# TEXAS BOARD OF WATER ENGINEERS

H. A. Beckwith, Chairman A. P. Rollins, Member James S. Guleke, Member

# 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

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#### **TEXAS**

# INDEX OF SURFACE WATER RECORDS 1882-1951

# DISCHARGE, SEDIMENT, CHEMICAL QUALITY, 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.

# ARKANSAS 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.	П	1885			1890			1895				0061			1905			0.00	1310			915			1920			1925	36.3			1930			1935			Š	340			1945				1950				Stream and Location
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2																												113	*												37:00	0.00	266	**************************************	103	22	٦.		C	anadian River near Canadian, Tex.
3					П																																	1				Н	П		124	11/1	4		P	alo Duro Creek near Spearman, Tex.
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#### 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.			882	0			400	200			006			905	П		9		Ī		315		T	1920	Ī		1	626			1930				1935			1940				1945			040	1330		П	Stream and Location
5																																								ļ					12/1	120			Tierra Blanca Creek at reservoir near Umbarger, Tex.
6		Ц						Ц			Ц	Ш												Ш								Ц							H										Tierra Blanca Creek seepage investigation
7		Ц			Ц	Ш		Ц		Ш								Ц				Ш		Ц					Ц				L	Ц		L		L	L	17400 17400	N 200		83 Z/						Palo Duro Creek near Canyon, Tex.
8					Ц			Ц		Ш										Ш		Ц		Ц				+				Ц	1	Ц			L I	2) 769	28	╪	H	H	+	+	72	Ш	Ц		Red River, Prairie Dog Town Fork, near Canyon, Tex.
9											Ц	Ш	Ц		Ц						1	Ц	1	Ц	$\perp$	L		1				Ц	L	Ц	1			ŧ		ŧ	Ц	Ц	ļ				Ш		North Tule Creek at reservoir near Tulia, Tex.
10					$\coprod$	$\perp$	Ц	$\prod$	$\downarrow$	Ш	Ц	Ц			Ц							Ц		Ц		L		1	Ц			Ц						Ø 250	52Q	*6° Ø	© <del>'</del> 6;	Ц		L.	0.0 %	7./IV			Red River, Prairie Dog Town Fork, near Brice, Tex.
11		Ц		1	Ц	Ш		Ц						L	Ш					Ц				Ш	1				Ш		L								Ц							28.53			Mulberry Creek near Brice, Tex.
12		Ц		1				Ц			Ц				Ц					Ц				Ц	1	L		•			L	Ц		Ц		L	R6 2	255	223	828	5 3.9 5	H	ŧ						Red River, Prairie Dog Town Fork, near Estelline, Tex.
13		Ц			Ц		$\perp$	Ц						L				Ц		Ш		Ц		Ц	1		Ц	╧				Ц	L	Ц	1		-		Ц			Ц	•	2	Ħ				Lake Childress near Childress, Tex.
14					П										Ц			Ц						Ш			Ц	1				Ц		Ц								Ц				12/2			Groesbeck Creek near Quanah, Tex.
15					Ц			Ц										Ц		Ц				Ц	1	L		1	Ц		L	Ц		Ц	1	L	Ц	$\downarrow$	Ц			Ц		L	**************************************			Ĺ	Wanderers Creek near Chillicothe, Tex.
16	$\perp$			$\perp$	Ц		1	Ц	1					Ц		Ц		Ц		Ц				Ц	1	L	Ц	1		1	L	Ц	$\downarrow$	Ц	1				Ц			Ц		L					Wanderers Creek at Odell, Tex.
17	4		Ш		Ц	Ц		Ц	1	Ц		$\prod$		Ц	Ц	Ц			1	Ц		Ц	1	Ц	1			1		1	L			Ц	1		Ц	1	Ц							φ.	H	L	Salt Fork Red River near Clarendon, Tex.
18		Ц	Ц		Ц			$\coprod$	1		$\perp$	Ц		Ц	Ц		$\perp$	Ц		Ц		Ш		Ц	1		Ц		Ш		L	Ц		Ц	1		Ŀ	1	Ц										Elm Creek near Shamrock, Tex.
19		Ц			Ш			Ц				Ц			Ш	Ц				Ц				Ц		L					L			Ц				L	Ц				+	_					Quitaque Creek near Quitaque, Tex.
20																																									19		***	al=121	<i>111</i>				Roaring Springs near Roaring Springs, Tex.
21								Ц				$\prod$		Ц		Ц		$\coprod$						Ц			4	-		-	L	Ц			+		862	£ 58:	2376	95 8	629	100 A	868	\$5					Pease River near Crowell, Tex.
22						Ш		Ш						Ш		Ц								$\coprod$			4					Ц																	Red River near Burkburnett, Tex.
								Ц																																									
								П									I																																

Reservoir contents 1999 Sediment 1808880888088 Chemical quality DOCCOOC Water temperature

agencies at the same location — Calendar Years	Stream and Location	Lake Kemp near Wabelle, Tex. Wichita River at Wichita Falls, Tex.	Lake Kickapoo near Archer City, Tex.	Little Wichita River near Archer City, Tex.	Red River near Terral, Okla.	Red River near Gainesville, Tex.	Lake Texoma near Denison, Tex.	Red River near Colbert, Okla. (Denison, Tex.)	Red River at Arthur City, Tex.	Red River at Index, Ark.	South Sulphur Hiver near Cooper, Tex.	North Sulphur River near Cooper, Tex.	Whiteoak Greek near (below) Talco, Tex.	Sulphur River near Darden, Tex.	Cypress Creek near Pittsburg, Tex.	Boggy Greek near Daingerfield, Tex.	Ellison Creek Reservoir near Daingerfield, Tex.	Cypress Creek near Jefferson, Tex.	Black Cypress Bayou near Karnack, Tex.	
RED RIVER BASIN S. Geological Survey and other cal Quality, and Temperature es not identify partial year records)	9461			26	93	28					33	The state of the s	35	96		8	39		POP	

### SABINE 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)

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41		Ц	1		Ц	1	L		1	$\perp$			1	L	Ц	1		1	Ц	1	L	Ц		L	Ц	_	Ц	1	L	Ц		ŧ	ŧ	Ц			Ц		Ц	1	L	Ц		1				1	Ц		Ц		Ц	1	Sabine River near Golden, Tex.
42					Ц		L		1		L				Ц		Ц	1							Ц					Ц				Ц			Ц		Ц				4	$\pm$	Ė		+	+	Ц	, i	100	<u> </u>			Sabine River near Mineola, Tex.
43																															•	1	Ļ												ļ			1		Z	***	II			Lake Fork Sabine River near Quitman, Tex.
44																																												+	Ł		_	1		Zi.	177	<i>''</i>			Big Sandy Creek near Big Sandy, Tex.
45			I															l																		I		Ļ	Ц	_	-			1	Ļ		4	ļ		Z	111	"			Sabine River near Gladewater, Tex.
46																		Ŧ							П			Ī				ļ	I		1	ļ																			Sabine River near Longview, Tex.
47																												Ī				I												-				_		Z,					Cherokee Bayou near Elderville, Tex.
48																																																		1		2			Lake Cherokee near Longview, Tex.
49																																													-			1		ii	11/2	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Sabine River near Tatum, Tex.
50																		Ŧ		+	ļ		-			ļ		+	-			1	ļ		4	ļ	Ц	N K K		žo st	(v(o)	260	o): :		: KO	0342	63 %	X200	o :42(c)	in in	7/2	19 11			Sabine River at Logansport, La.
51																																											Ц					1		2	<i>1</i> /2				Sabine River near Milam, Tex.
52							L																									_																							Sabine River at Sabinetown, Tex.
53											L																																								*//	<b>3</b>			Little Cow Creek at Burkeville, Tex.
54																																											L	$\perp$			L			2	///				McGraw Creek near Burkeville, Tex.
55																							11	11111	1	ı	111	ını	1	1110		-			1	+		Ļ		m	11111	11	Ц	+				1		2	2/7	<i></i>			Sabine River near Bon Wier, Tex.
56																																													8			===	373		*///				Quicksand Creek near Bon Wier, Tex.
56a						I				I								I										T	Ī		•	I	L		I	Į		ļ		Į	L			Ţ	Į			T	<u>()</u>	77/7	7//	11			Sabine River near Ruliff, Tex.
56ъ									I														I						I			I	Ĺ										4	9											Sabine River near Terry, Tex.
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# 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)

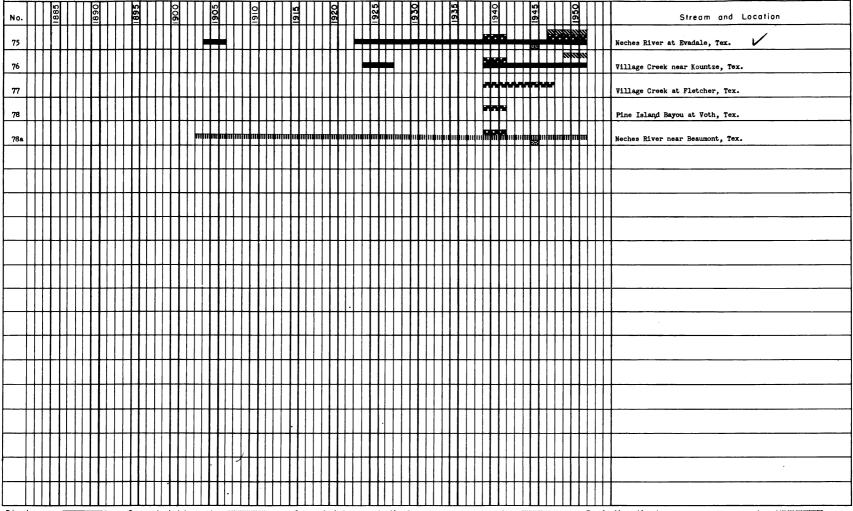
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57	П			П								Ī																																					Neches River near Reese, Tex.
58																																						+	L		-	H		11	///				Neches River near Neches, Tex.
59																												ŀ						Ц							÷	Н		22		_			Neches River near Alto, Tex.
60																									-									Ц				+	Ł			Н			-	٩.			Neches River near Diboll, Tex.
61															1	-	ŀ	Н	-		F		L			Н		H		- 8	2 SX	600 H	स जार	<u>ن</u> ري	क्ष्य व	'e ***	90		200	***	1976	¥ 10)	650.5	%:%¢	// ***				Neches River near Rockland, Tex.
62																		Ц		Ц						Ц					L			Ц			Ш									-	Ш		Lake Tyler near Whitehouse, Tex.
63																		Ц		Ц		Ц		Ц		Ц								Ц				-	Ł		ļ	H		77	77	2			Mud Creek near Jacksonville, Tex.
64																				Ц						Н	+	Ė	Ц		L	Ц		Ц			Ц			Ц					Ц		Ц		Mud Creek at Ponta, Tex.
65																				Ц			L	Ц				L	Ц		L	Ц		Ц			Ц	1	E			l			Ц				Bowles Creek seepage investigation
66																										Ц			Ц					Ц					L		+			77					Striker Creek near Summerfield, Tex.
67																				Ц												Ц		Ц				+	Ļ		+			7	Ш				Angelina River near Alto, Tex.
68																									-			L		+	L		+	Ц			H		-		_	H		Z					Angelina River near Lufkin, Tex.
69										L										Ц					$\perp$				Ц			Ц		Ц		_	Н												Arenoso Creek near San Augustine, Tex. 12
70																																		Ц			H				1			777	<i>1</i> 2	<u></u>			Attoyac Bayou near Chireno, Tex.
n																																		Ш											Ш				Ayish Bayou at San Augustine, Tex.
72																														1	l		-	Ц		ļ	Ц		•			3° 88	398	22.0	277	<i>11</i>			Angelina River at Horger, Tex.
73		T	$\prod$		T																																								4				Dam B Reservoir at Town Bluff, Tex.
74									I																I																			пп		22			Neches River at Town Bluff, Tex.
			П					I																																									
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#### 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)



Discharge Gage heights only IIIIIIIIIIIIIII Gage heights and discharge measurements Periodic discharge measurements

Reservoir contents Sediment Seguestion Chemical quality Che

#### TRINITY 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. 88		068	Π	895	П			П	905				$\prod$	915	П		920			925			930	П		1935			940	П		945			1950	П		Stream and Location
79																								20			77.		<b>,</b>	**		П				4		Bridgeport Reservoir above Bridgeport, Tex.
80											$\prod$			H	H	Ц	_			+																		Trinity River, West Fork, at Bridgeport, Tex.
81		Ш					$\prod$	$\prod$									I									L			4			Ц	4		100			Big Sandy Creek near Bridgeport, Tex.
82		Ш							П					П																								Trinity River, West Pork, near Boyd, Tex.
83														П											4	,,		,	7	72	وو		771	7.57.2	مرم	2		Eagle Mountain Reservoir above Fort Worth, Tex.
84	Ш								П			П								4				H	$\bot$													Trinity River, West Fork, at Lake Worth Dam, above Fort Worth, Tex.
85		П							$\prod$		П		П	П																						×.		Clear Fork Trinity River near Aledo, Tex.
86																																			11/2			Clear Fork Trinity River near Benbrook, Tex.
87									П										-	4						$\pm$		+							100			Clear Fork Trinity River at Fort Worth, Tex.
88													14 11			1011	4	H	Ļ	Ц	H	Ļ			Н	+			Ц				-	×	3/12			Trinity River, West Fork, at Fort Worth, Tex.
89	$\prod$	$\prod$	$\prod$											П																					17.5	8		Marine Creek at Fort Worth, Tex.
90		Ш							П					П			I			H		-	Ц															Village Creek near Handley, Tex.
91		$\top \Pi$									П									H	H	ļ	Н	Н		4			Ц			Н	_	*	ant.	S .		Trinity River, West Fork, at Grand Prairie, Tex.
92									П					П						H	H	4	Ц	Ц														Mountain Creek near Grand Prairie, Tex.
93	$\prod$								П					П																					dik			Elm Fork Trinity River near Sanger, Tex.
94				П																				П					П			$\prod$			100			Isle du Bois Creek near Pilot Point, Tex.
95				$\prod$	Ш				$\prod$	П	$\prod$		$\prod$														П		П			$\prod$			de			Clear Creek near Sanger, Tex.
96									$\prod$		$\prod$								I		H																	Elm Fork Trinity River near Denton, Tex.
			$\prod$						$\prod$																			I							$\prod$			
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#### TRINITY 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			900		1905		016				2			1920			900	25.0			930			32.0	255		I	940				945			1950		Stream and Location
97																											,		727.	42		,	7	~	4		27	74	-		77	4		 Lake Dallas near Lake Dallas, Tex.
98																																									77			 Elm Fork Trinity River near Lewisville, Tex.
99																																									77	11/11		Denton Creek near Justin, Tex.
100		$\prod$																						1													L		270 69.		12	112/1		Denton Creek near Roanoke, Tex.
101																																									7	17/1	1	Denton Creek near Grapevine, Tex.
102										Ц		Ц												-				L				ŧ	H		Ļ		-	Ц	1		77	11711		Elm Fork Trinity River near Carrollton, Tex.
103	Ц			Ц						Ц		Ц						$\prod$						+	L																			Elm Fork Trinity River near Dallas, Tex.
104		$\coprod$		Ц	Ц					Ц		Ц						$\prod$																							111111			Turtle Creek at Dallas, Tex.
105				Ц					пп	Ц		Н		ļ	Н	+			$\downarrow$	Н	+	Н		+	Ļ		+	H				÷	Н	ļ	Ł	Н	ļ		<b>70</b>		77	11/11	S	Trinity River at Dallas, Tex.
106										Ц																																	_	Honey Creek near McKinney, Tex.
107				Ц								Ц	Ц															L		Ц								Ц				11211		East Fork Trinity River at McKinney, Tex.
108	Ц	Ц					1	Ц		Ц		Ц		$\downarrow$	Ц		Ц														Ц					Ц		Ц				100		Sister Grove Creek near Princeton, Tex.
109		Ц				Ц	1			Ц		Ц	Ц	$\perp$	Ц		Ц			Ц	$\downarrow$						$\downarrow$				Ц					Ц		Ц	1			11111		East Fork Trinity River near Lavon, Tex.
110		Ш		Ц		Ш		Ц		Ц		Ш		L				Ц						+		=	-	L			4	╪		ļ	H		ŧ	20 6	9% (o)	2	Ħ	10/1		East Fork Trinity River near Rockwall, Tex.
111		Ш		Ц				Ц		Ц					Ц					Ц		Ц																Ц	L	Ш		11/11		East Fork Trinity River near Crandall, Tex.
112												Ц											,	min										95 X	8 633		Ė		Ŧ			11/11		Trinity River near Rosser, Tex.
113		$\coprod$									Ĺ									Ш															L		ļ	Ц			20	11111		Cedar Creek near Mabank, Tex.
<b>a</b> 14		$\coprod$										$\coprod$									$\prod$			I																				Chambers Creek near Enhouse, Tex.
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		$\prod$										$\prod$									$\prod$													$\prod$										

#### TRINITY 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)

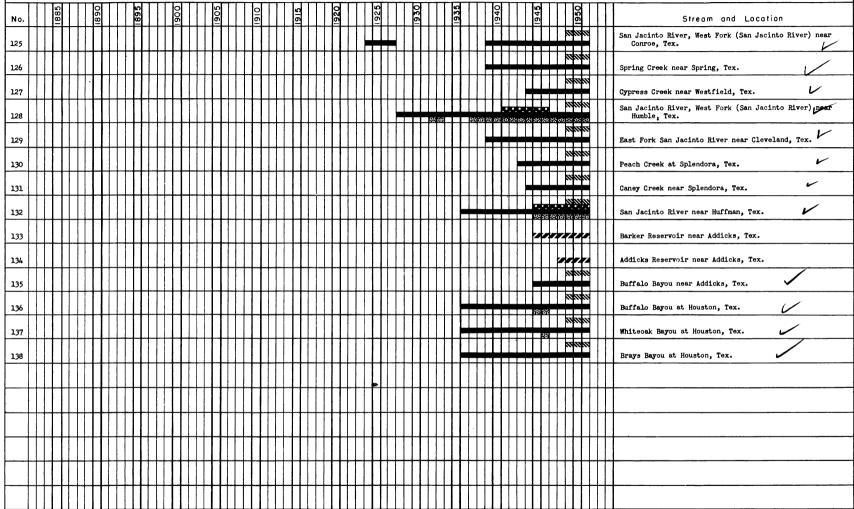
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117						П	П	П			ш	Ш		Ш	Ш					Ш		$\coprod$	Ш	H	$^{++}$	Н	H	$\pm \pm$			Ш	Chambers Creek near Corsicana, Tex.
				$\prod_{i}$	$\neg \neg$		Ш									E								H				H	177			Richland Creek near Richland, Tex.
118		TT		Ш						$\prod$		$\mathbb{H}$			Ш		H					Н			H		Н	1111			Ш	Trinity River near Oakwood, Tex.
															Ш		Ш		Ш	Ц	$\coprod$	$\coprod$		H	H	H	H	H	177	_		Trinity River near Midway, Tex.
119									11191	1 11 11		1111111		•	mem				H		$\coprod$	$\coprod$		$\coprod$	$\parallel$	H	$\coprod$		77			Trinity River at Riverside, Tex.
120																							800	8.25	2 263	(4)07.0	0 660	92 5KS 1	XXX 30-55	ñ-101		Trinity River at Romayor, Tex.
121							1	1110111	non		111111	1111111		1	1188111				111111		1111	11111	110111						128			Trinity River at Liberty, Tex.
122				Ш		Ш	Ш						Ш		Ш		Ш			$\coprod$	Ц	Ц		Ш	Ц	$\prod$	$\perp$		$\perp$	ш		Trinity River near Moss Bluff, Tex.
123						Ш									Ш		Ц			Ш	Ш	Ц		Ш		Ш	Ш		**	40		Trinity River near Cove, Tex.
124																					Ш	Ш			Ш	Ц						Trinity River at Anahuac, Tex.
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#### 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)



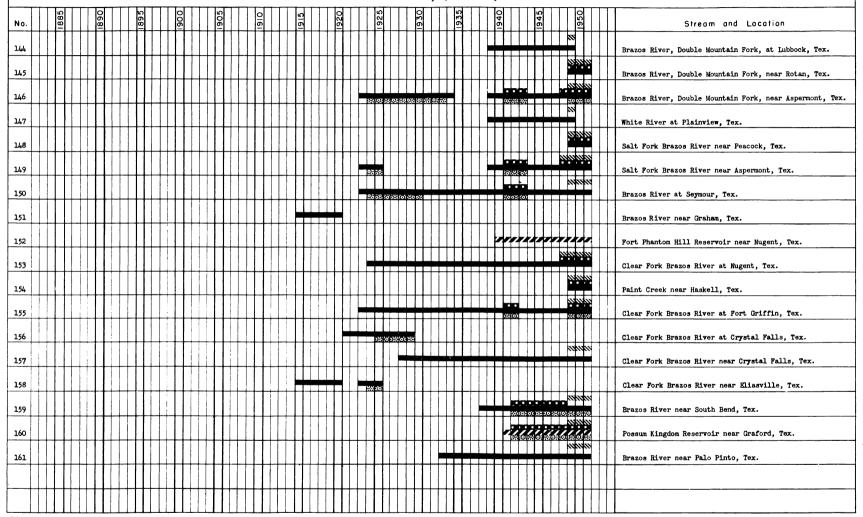
8 OYSTER CREEK BASINS	other agencies at the same location	erature — Calendar Years records)	Stream and Location	Clear Creek Basin	Clear Creek near Pearland, Tex.	Hickory Slough near Pearland, Tex.		Chocolate Basin	Chocolate Bayou near Alvin, Tex.		Bastrop Bastn	Austin Bayou near Danbury, Tex.		Orster Creek Basin	Oyster Creek near Angleton, Tex.			surements waskawamme Periodic discharge measurements waskawamme
BAYOU, BASTROP BAYOU,	by the U.S. Geological Survey and other agencies at the same	nt, Chemical Quality, and Temperature (Index does not identify partial year records)	926															Gage heights and discharge measurements www
CLEAR CREEK, CHOCOLATE	records collected	Discharge, Sediment, .Cher	G161 G061 G06															Gage heights only imminimum Gage
	Index of		G881		139	071			141			271			11/3			Discharge

#### 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)



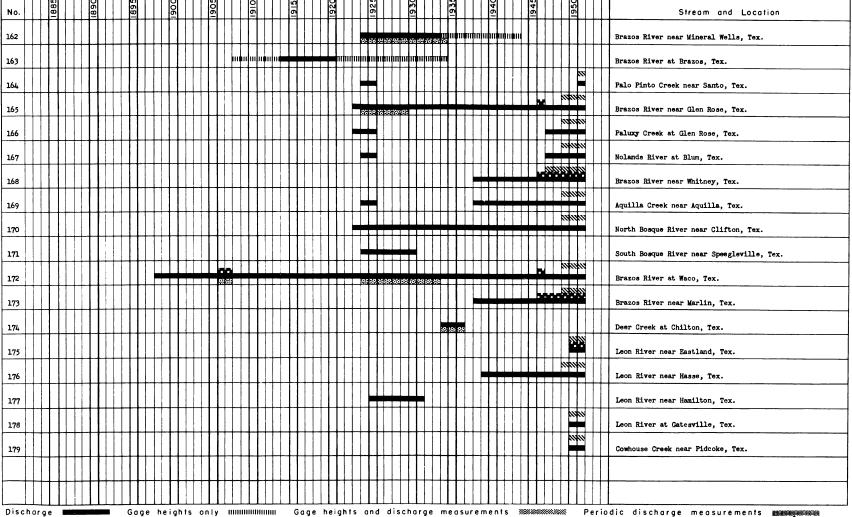
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#### BRAZOS RIVER BASIN

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)

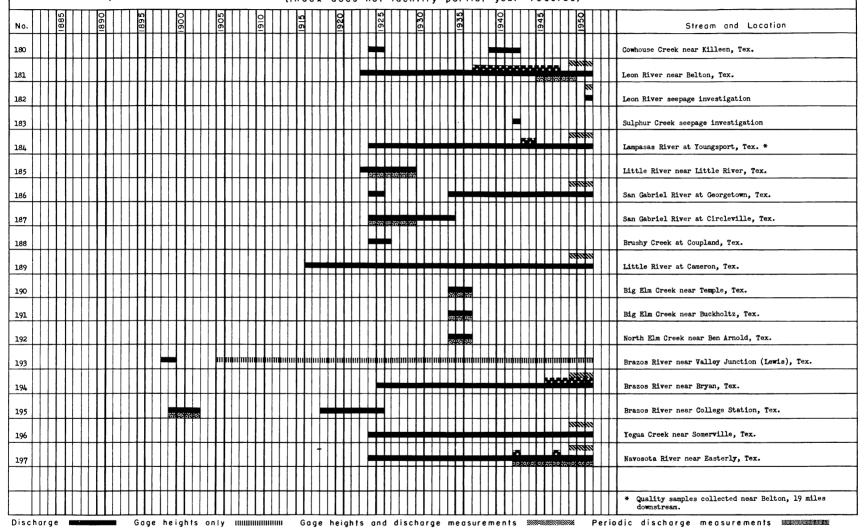


#### BRAZOS RIVER BASIN

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)

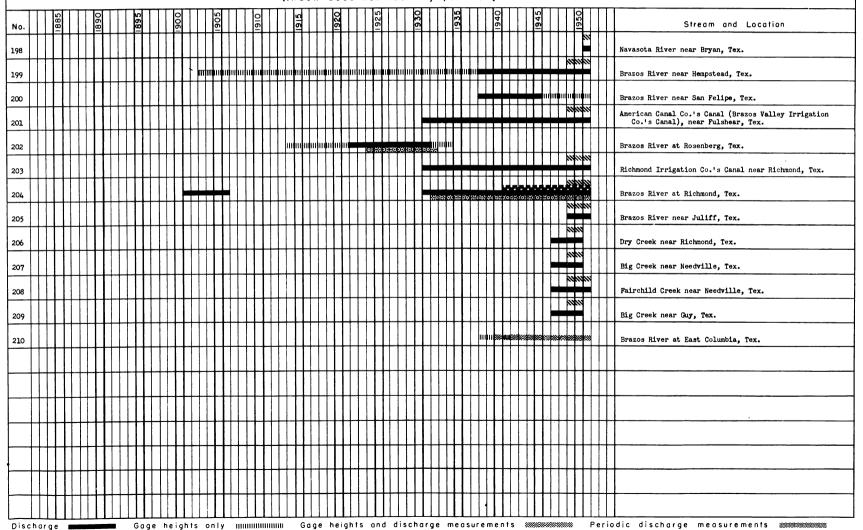


#### BRAZOS RIVER BASIN

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)

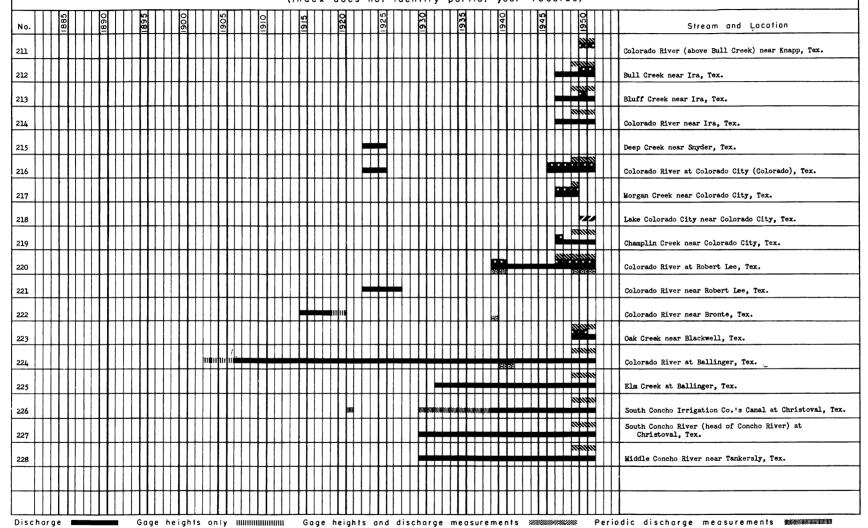


## COLORADO RIVER BASIN

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)



Reservoir contents 200000000000 Sediment 3900000000000 Chemical quality IDDDDDDDD Water temperature www.

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# 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)

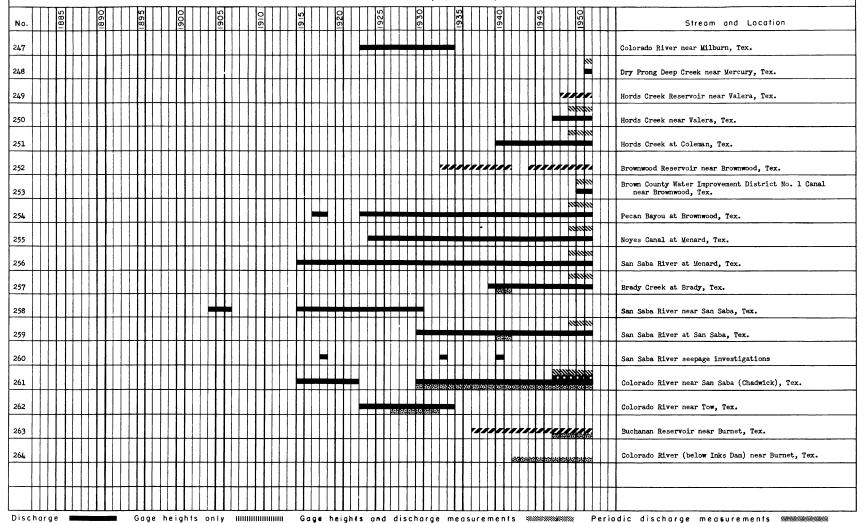
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229						$\prod$																					Ŀ																						Middle Concho River seepage investigations
230																		Ш			Ш											Ц		Ц				1							///	S S			Dove Creek Springs near Knickerbocker, Tex.
231									L		1	Ш		Ц	Ц		Ц	Ц						Ц	Ц	$\prod$						Ш		Ц		L	Ц	1			ŧ			<i>[</i> ]				1	Dove Creek near Knickerbocker, Tex.
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236		Ц		Ц	$\coprod$		1	Ц		Ц	1	Ц		$\coprod$	$\perp$	4	$\prod$	Ц	1	H	$\coprod$		H		Ц	$\coprod$	$\downarrow$	$\prod$	1	Ц	•			Ħ	+	+	H	+			ŧ	H						1	South Concho River at San Angelo, Tex.
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238				$\parallel$		$\prod$	$\downarrow$	$\coprod$	1		1	Ц	1		$\perp$	Ц	Ц		1		$\coprod$	1	Ш		$\prod$	$\parallel$	$\downarrow$	$\coprod$	-	Ц	$\parallel$	Ц	4	Ц	$\downarrow$	1		+	Н	H	ŧ				,,,			4	North Concho River at Sterling City, Tex.
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#### 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)

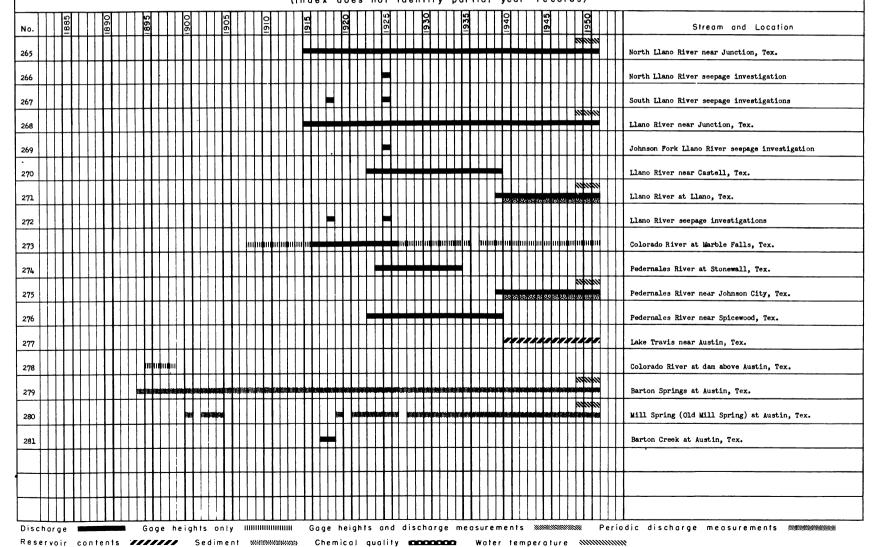


#### COLORADO RIVER BASIN

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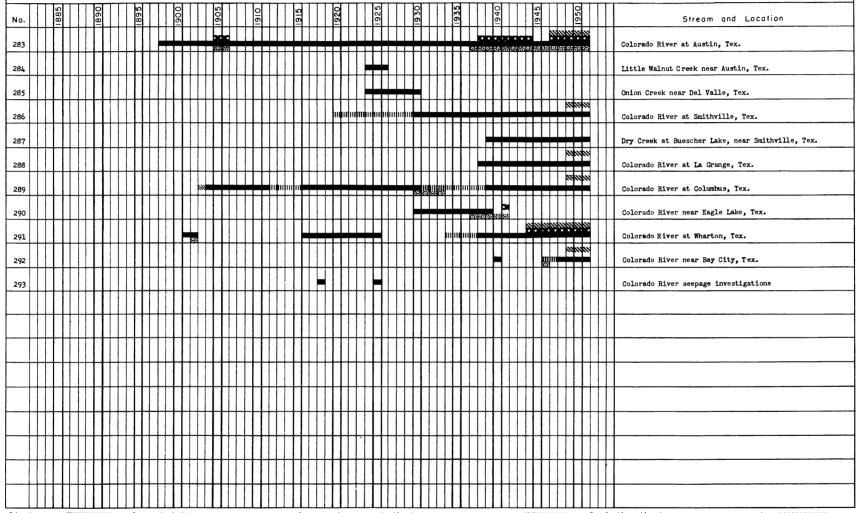
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#### COLORADO RIVER BASIN

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)



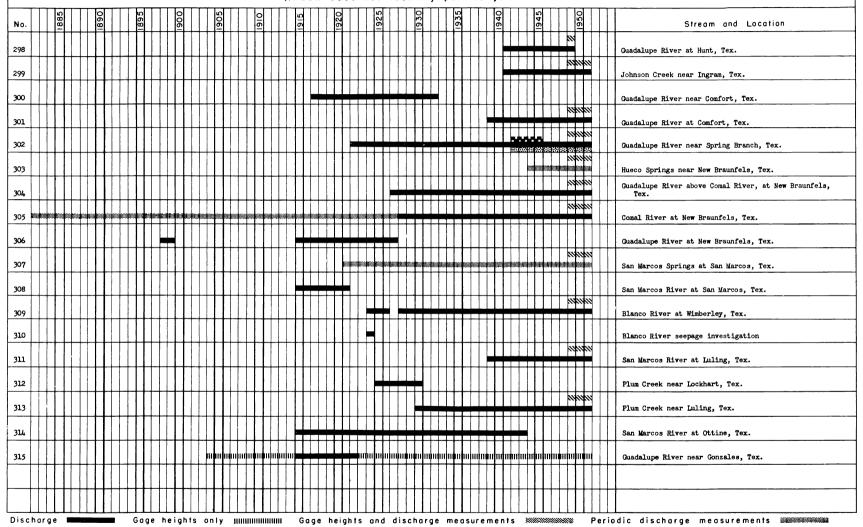
	agencies at the same location	Calendar Years		Stream and Location	Lavaca River at Hallettaville, Tex.	Lavaca River near Edna, Tex.	Lavaca River seepage investigation	Navidad Rjver near Ganado, Tex.															odic discharge measurements ************************************
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#### 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)

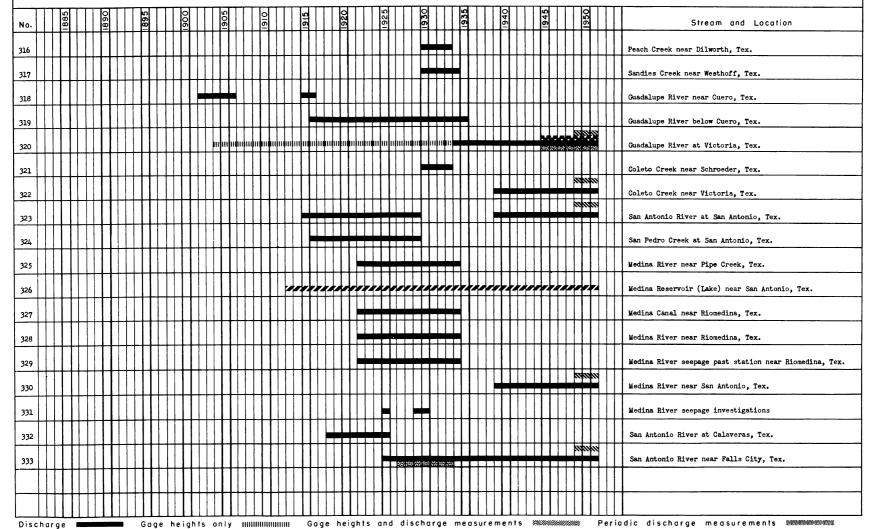


#### GUADALUPE RIVER BASIN

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)



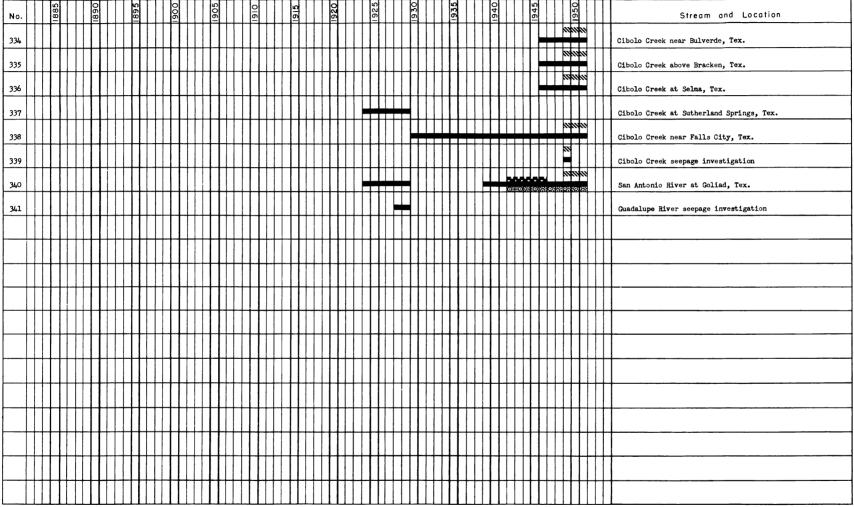
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#### GUADALUPE RIVER BASIN

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)



	agencies at the same location	Calendar Years		Stream and Location	Mission River at Refugio, Tex.				-																Periodic discharge measurements ************************************
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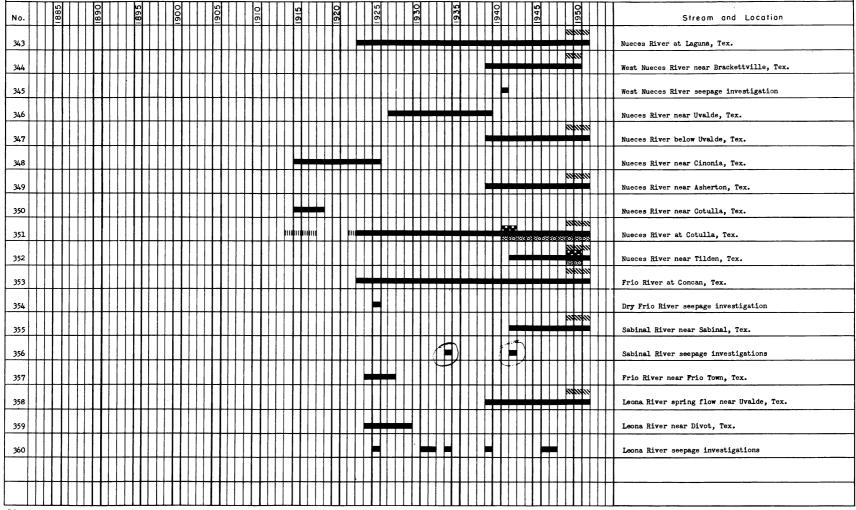
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#### NUECES RIVER BASIN

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)



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#### NUECES RIVER BASIN

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363																								ļ																																Frio River at Fowlerton, Tex.
364																	1						Ц							•	+	H					L		1	+	ļ			+	-	Ļ		Н		╪	Z	777	_			Frio River at Calliham, Tex.
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373																									ļ		,,			911(1			111		11		n	111	118	1	11111	1	111	1101	11111	11111	u		11111	11011						Nueces River at Calallen, Tex.
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#### RIO GRANDE BASIN

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Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years

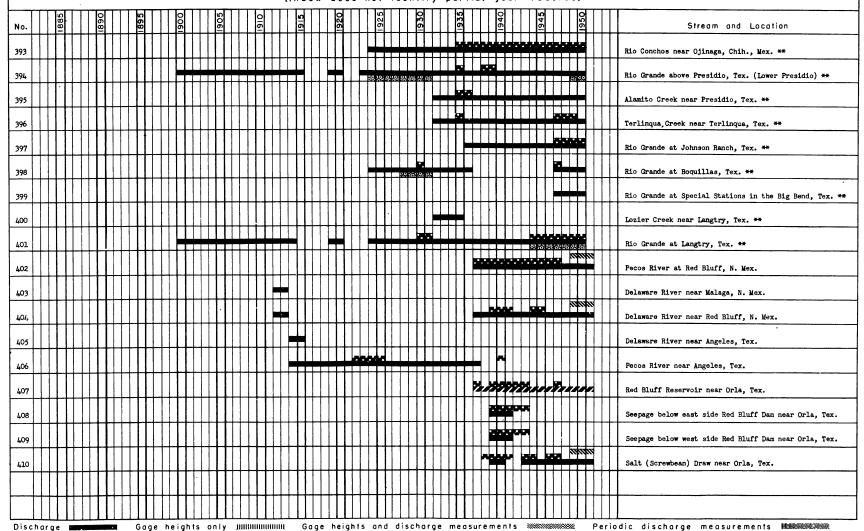
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Tornillo Canal at wasteway near Alamo Alto, Tex.  Hudspeth Canal at head near Alamo Alto, Tex.  Rio Grande at County Line Station near El Paso, T  Rio Grande near Fort Hancock, Tex. **  Rio Grande below Old Fort Quitman near Finlay, Te  Rio Grande at La Nutria, Tex. **  Rio Grande above Presidio, Tex. (Upper Presidio)  Diversions from Rio Grande between Upper and Lowe Presidio Stations, Tex. **	382																																				Ц	1			1						Diversions from the Rio Grande in the El Paso Valley, Tex. **
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391 Presidio Stations, Tex. **	390														Н		+	H								8	; o ;	iii Xè			þ														•		Rio Grande above Presidio, Tex. (Upper Presidio) **
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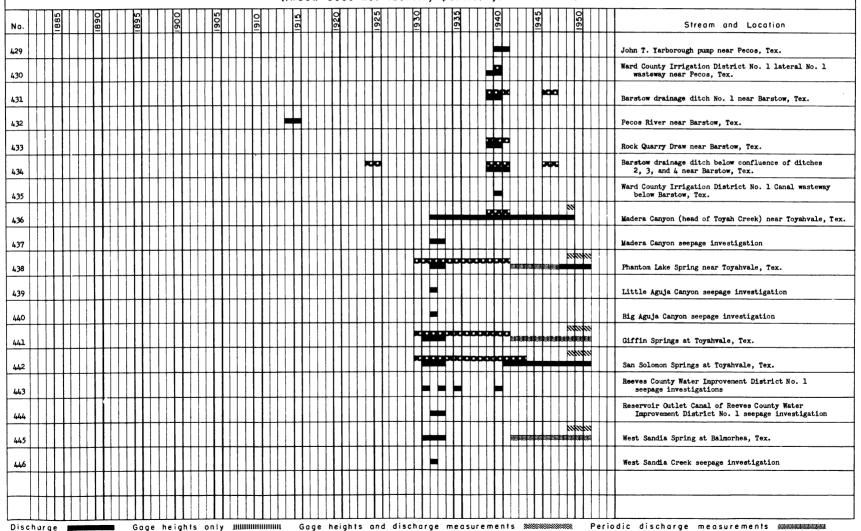
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411																																						J	ohn Camp pump near Orla, Tex.
412						Ш																							22 101									P	ecos River near Orla, Tex.
413						Ш																																J	oe B. Neel pump near Riverton, Tex.
414						Ш		Ш										1											L									l v	. R. Estes pump near Mentone, Tex.
415																												•	4									F	ecos River near Porterville, Tex.
416						Ш																											L		$\pm$		1	F	eeves County W. I. D. No. 2 Canal near Mentone (Farmers Independent Canal near Porterville), Tex.
417																													4		H		Ļ			1171		W	ard County Water Improvement District No. 3 Canal near Barstow, Tex.
418																																						c	edarvale Canal near Barstow, Tex.
419						Ш	Ш																															E	oxley Canal near Barstow, Tex.
420						Ш					1					-	H			-	H								-									F	ecos River above Barstow (above Barstow Canal), Tex.
421						Ц		H		Ł																												ע	argueretta flume near Pecos, Tex.
422						Ц						Ц			Ц		Ц				Ц															Ц		V	est Valley ditch near Pecos, Tex.
423						Ш		Ц				Ц							H					Ц									Ė		77	777		,	Mard County Irrigation District No. 1 Canal (Barstow Canal), near Barstow, Tex.
424						Ш	Ц	Ш																												Ш		ı	rainage into Soda Lake near Barstow, Tex.
425													1				l		4		Ц							•		•								ŀ	ecos River above Barstow (below Barstow Canal), Tex.
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448			Ц												Ц						Ц												F			L							Ц								Cherry Canyon seepage investigation
449			Ш					Ц	Ц											Ц					L			Ц						Ц				_	ø	Ц											Toyah Creek near Pecos, Tex.
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451																														ļ		+	-																		Limpia Creek (head of Barrilla Creek) near Fort Davis, Tex.
452																																																			Limpia Creek seepage investigation
453								Ц			Ц				Ц				$\perp$	Ш	Ц		Ш				-	Н															Ц			Ш					Barrilla Creek near Saragosa, Tex.
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456																					Ц																														Toyah Creek seepage investigation
457																											-											•	1			F	Ц			27	un	"			Grandfalls-Big Valley Canal near Barstow, Tex.
458													Ц				L		$\perp$									Ц											+				Ц								Pecos River below Barstow, Tex.
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460																			l		Ц						+	Н										ı		Н		Ŧ	Ц	H		777	10/11				Pecos County W. I. D. No. 2 upper diversion Canal (Imperial Highline Canal), near Grandfalls, Tex.
461																																							+				Ц			77	mu	×			Ward County Water Improvement District No. 2 Canal near Grandfalls, Tex.
462																											ļ											1		Ц											Pecos County W. I. D. No. 2 lower diversion Canal (Imperial Lowline Canal), near Grandfalls, Tex.
463				П	T														I																										Į	77	11111			Ī	Pecos County Water Improvement District No. 2 Canal near Imperial, Tex.
464		I								I						I																I							•											I	Pecos County Water Improvement District No. 2 west lateral wasteway near Buena Vista, Tex.
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Reservoir contents 2000 Sediment 12000 Chemical quality Appears Water temperature annuments

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#### RIO GRANDE BASIN

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Discharge, Sediment, Chemical Quality, and Temperature — Calendar Years

(Index does not identify partial year records)

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467		П													П												$\prod$			40			Į			11/11	N.			Pecos County Water Improvement District No. 3 Canal near Imperial, Tex.
468		Ħ							$\prod$																															Pecos County Water Improvement District No. 3 Canal below Buena Vista, Tex.
469						$\prod$																								×										Ward County Water Improvement District No. 2 lateral No. 2 wasteway below Grandfalls, Tex.
470																														1										Ward County Water Improvement District No. 2 Canal wasteway below Grandfalls, Tex.
471									Ц																		Ц			56 233	75.9X				4					Pecos River below Grandfalls, Tex.
472																			00		4									7	~									Pecos River near Buena Vista, Tex.
473							П				$\prod$																							i	<b>3</b>		1 1			Leon Springs and flowing wells, 8 miles west of Fort Stockton, Tex.
474	$\prod$								П		П																			×										Pecos County Water Improvement District No. 2 east lateral wasteway below Buena Vista, Tex.
475	Ħ								$\prod$																					e										Pecos County Water Improvement District No. 3 Canal wasteway below Buena Vista, Tex.
476									$\prod$																					4										Drainage from Powell Lake below Buena Vista, Tex.
477				$\prod$																					•	-			4	40						un	_			Comanche Springs at Fort Stockton, Tex.
478									П																												)/ (3)			San Pedro Springs 7 miles northeast of Fort Stockton, Tex.
479									$\prod$																															Seepage investigations on canals in Comanche Creek basin, Pecos County, Tex.
480		П		П																										X 90	e e e									Pecos River near Girvin, Tex.
481									$\prod$												*									e): 60	266			$\Pi$		77				Pecos River near Sheffield, Tex.
482									$\frac{1}{2}$	$\blacksquare$		I				Ŧ		L					ŧ							9		1555 1555	88 98	362	2369	e: e:				Pecos River near Comstock (Moorhead), Tex. **
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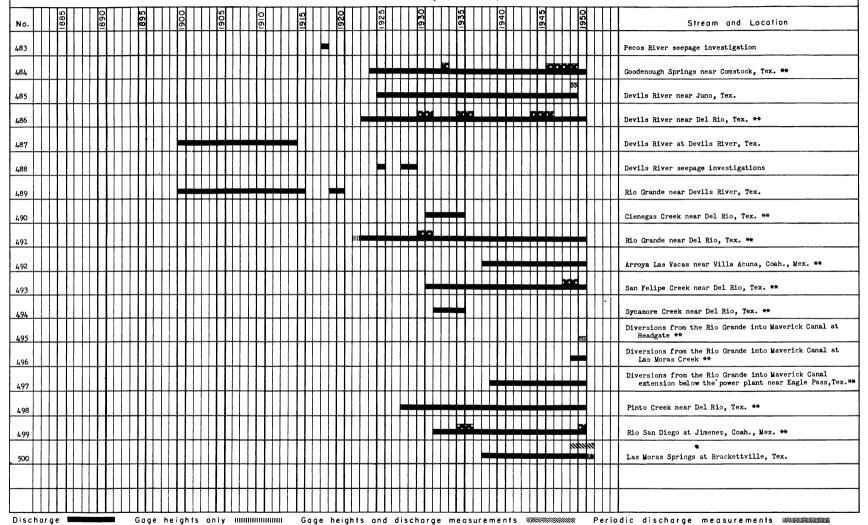
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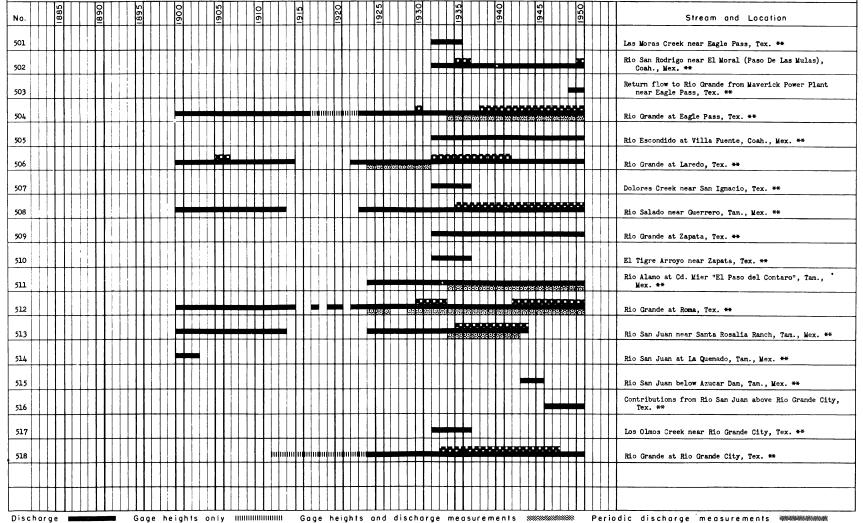
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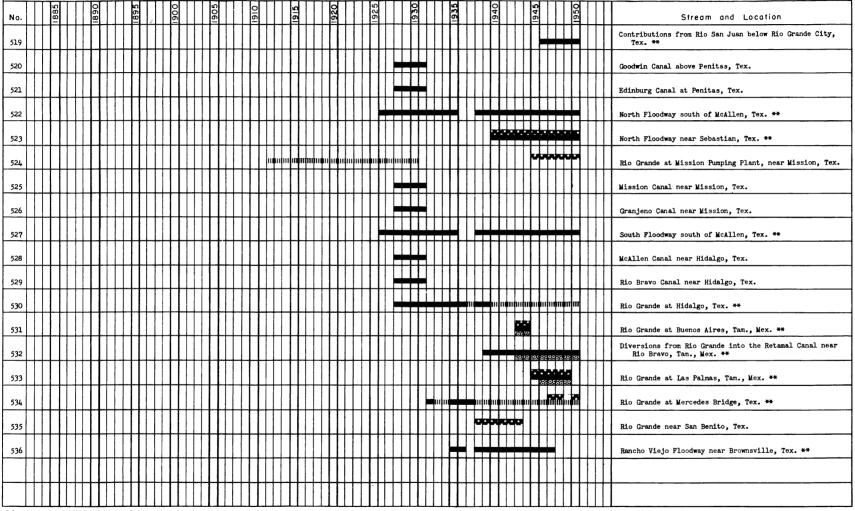


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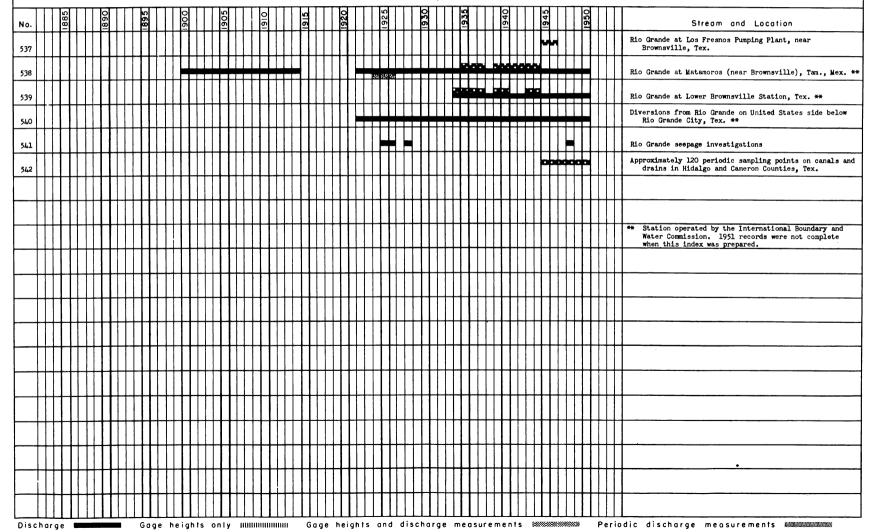
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