

GEOLOGICAL SURVEY CIRCULAR 61



August 1949

# INDEX OF SURFACE-WATER RECORDS

## PART 8.—WESTERN GULF OF MEXICO BASINS

TO SEPTEMBER 30, 1948

Prepared by Austin District

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Free on application to the Director, Geological Survey, Washington 25, D. C.

# INDEX OF SURFACE-WATER RECORDS

## PART 8.—WESTERN GULF OF MEXICO BASINS TO SEPTEMBER 30, 1948

### EXPLANATION

The index lists the stream-flow and reservoir stations in the Western Gulf of Mexico Basins for which records have been or are to be published for periods prior to September 30, 1948. The stations are listed in downstream order. Tributary streams are indicated by indention.

Many stations on canals and drains in the Rio Grande Basin between Santa Fe and San Marcial, N. Mex., are not listed in this index. Many stations on canals and ditches in the Pecos River Basin, downstream from Pecos, N. Mex., are not included in this index.

Station names are given in their most recently published forms. Parentheses around part of a station name indicate that the inclosed word or words were used in an earlier published name of the station or in a name under which records were published by some agency other than the Geological Survey.

The drainage areas, in square miles, are the latest figures published or otherwise available at this time. Drainage areas that were obviously inconsistent with other drainage areas on the same stream have been omitted. Some drainage areas not published by the Geological Survey are listed with an appropriate footnote stating the published source of the figure of drainage area.

Under "period of record" breaks of less than a 12-month period are not shown. A dash not followed immediately by a closing date shows that the station was in operation on September 30, 1948. The years given are calendar years. Periods of records published by agencies other than the Geological Survey are listed in parentheses only when they contain more detailed information or are for periods not reported in publications of the Geological Survey.

Records both of gage height and of discharge are listed for stream-flow stations, and records of gage height and of contents (or of change in contents) are listed for stations on reservoirs. Records of gage heights only and records consisting only of monthly figures either of stream flow or reservoir contents are designated by symbols and footnotes. For early years when daily discharges were not generally published by the Geological Survey, published daily gage heights and a published rating table were considered to be equivalent to daily discharges.

An alphabetical index of streams, canals, and reservoirs is given on pages 17 to 20.

<u>Basin</u>	<u>Drainage Area</u> <u>(square miles)</u>	<u>Period of Record</u>
<u>Mormontau River Basin</u>		
Bayou Nezpique near Basile, La.....	—	1938-
Cypress Creek near Pine Prairie, La.....	—	1948-
Bayou des Cannes near Eunice, La.....	—	1938-
Bayou Plaquemine Brule near Crowley, La.....	—	1942-
<u>Calcasieu River Basin</u>		
Calcasieu River near Glenmora, La.....	499	1943-
Calcasieu River near Oberlin, La.....	753	1922-25; 1938-
Calcasieu River near Kinder, La.....	1,700	1922-25; 1938-
Whiskey Chitto Creek near Oberlin, La.....	510	1939-
Bundick Creek near Dry Creek, La.....	238	1939-
Beckwith Creek near Dequincy, La.....	148	1945-
Hickory Branch at Kernan, La.....	82.2	1945-
<u>Sabine River Basin</u>		
Sabine River near Golden, Tex.....	1,199	1924-26.
Sabine River near Mineola, Tex.....	1,445	1939-
Sabine River near Gladewater, Tex.....	2,846	1932-
Sabine River near Longview, Tex.....	3,013	1904-06; 1923-32.
Sabine River near Tatum, Tex.....	3,586	1939-
Sabine River at Logansport, La.....	4,858	1903-06; 1907-23**; 1924-
Sabine River near Milam, Tex.....	6,543	1939-
Sabine River near Sabinetown, Tex.....	6,754	1923-25.
Sabine River near Bon Wier, Tex.....	8,323	1923-34; 1939-
Sabine River near Ruliff, Tex.....	9,440	1924-
Lake Fork Sabine River near Quitman, Tex.....	586	1924-26; 1939-
Big Sandy Creek near Big Sandy, Tex.....	235	1939-
Cherokee Bayou near Elderville, Tex.....	116	1939-
Bayou San Miguel near Zwolle, La.....	—	1948-
Bayou Anacoco near Leesville, La.....	—	1948-
<u>Neches River Basin</u>		
Neches River near Reese, Tex.....	851	1924-27.
Neches River near Neches, Tex.....	1,129	1939-
Neches River near Alto, Tex.....	1,903	1944-
Neches River near Diboll, Tex.....	2,670	1923-25; 1939-
Neches River near Rockland, Tex.....	3,539	1903-23**; 1924-
Neches River at Evadale, Tex.....	7,908	1904-06; 1923-
Mud Creek near Jacksonville, Tex.....	382	1939-
Mud Creek at Ponta, Tex.....	490	1924-27.
Angelina River near Alto, Tex.....	1,274	1940-***
Angelina River near Lufkin, Tex.....	1,575	1923-34; 1939-
Angelina River at Horger, Tex.....	3,435	1928-
Striker Creek near Summerfield, Tex.....	148	1940-
Bowles Creek seepage investigation.....	—	1942.
Attoyac Bayou near Chireno, Tex.....	502	1924-25; 1939-
Arenoso Creek near San Augustine, Tex.....	76	1938-40.
Ayish Bayou at San Augustine, Tex.....	—	1924-25.
Village Creek near Kountze, Tex.....	837	1924-27; 1939-
<u>Trinity River Basin</u>		
Bridgeport Reservoir above Bridgeport, Tex.....	978	1932-***
Trinity River, West Fork, at Bridgeport, Tex.....	1,012	1915-30.
Trinity River, West Fork, near Boyd, Tex.....	1,603	1947-
Eagle Mountain Reservoir above Fort Worth, Tex.....	1,821	1934-***
Trinity River, West Fork, at Lake Worth Dam, above Fort Worth, Tex.....	1,942	1923-34.
Trinity River, West Fork, at Fort Worth, Tex.....	2,501	1920-
Trinity River, West Fork, at Grand Prairie, Tex.....	2,956	1925-
Trinity River at Dallas, Tex.....	6,001	1898-99*; 1903-06; 1907-20**; 1920-
Trinity River near Rosser, Tex.....	8,057	1924; 1924-25*; 1938-

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

\*\*\* Fragmentary.

<u>Trinity River Basin--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Trinity River near Oakwood, Tex.....	12,840	1905-23**; 1923-
Trinity River near Midway, Tex.....	14,390	1939-
Trinity River at Riverside, Tex.....	15,510	1903-06; 1923-
Trinity River at Romayor, Tex.....	17,200	1924-
Trinity River at Liberty, Tex.....	17,500	1938-40*; 1940-***
Big Sandy Creek near Bridgeport, Tex.....	346	1936-
Clear Fork of Trinity River near Aledo, Tex.....	253	1947-
Clear Fork Trinity River near Benbrook, Tex.....	433	1947-
Clear Fork Trinity River at Fort Worth, Tex.....	522	1924-
Village Creek near Handley, Tex.....	130	1925-30.
Mountain Creek near Grand Prairie, Tex.....	267	1925-33.
Elm Fork Trinity River near Denton, Tex.....	1,096	1923-27.
Lake Dallas near Lake Dallas, Tex.....	1,160	1928-
Elm Fork Trinity River near Carrollton, Tex.....	2,542	1923-
Elm Fork Trinity River near Dallas, Tex.....	2,585	1920-28.
Denton Creek near Roanoke, Tex.....	634	1923-27; 1939-
Denton Creek near Grapevine, Tex.....	746	1947-
East Fork Trinity River near Rockwall, Tex.....	831	1923-
Cedar Creek near Mabank, Tex.....	741	1938-
Chambers Creek near Emhouse, Tex.....	782	1924-25.
Chambers Creek near Corsicana, Tex.....	958	1939-
Richland Creek near Richland, Tex.....	760	1924-25*; 1939-
<u>San Jacinto River Basin</u>		
San Jacinto River, West Fork (San Jacinto River) near Conroe, Tex.....	832	1924-27; 1939-
San Jacinto River, West Fork (San Jacinto River) near Humble, Tex.....	1,811	1928-
San Jacinto River near Huffman, Tex.....	2,791	1936-
Spring Creek near Spring, Tex.....	400	1939-
Cypress Creek near Westfield, Tex.....	262	1944-
East Fork San Jacinto River near Cleveland, Tex.....	330	1939-
Peach Creek at Splendora, Tex.....	120	1943-
Caney Creek near Splendora, Tex.....	104	1944-
Barker Reservoir near Clodine, Tex.....	105	1945-
Barker Reservoir near Addicks, Tex.....	150	1945-
Buffalo Bayou near Addicks, Tex.....	310	1945-
Buffalo Bayou at Houston, Tex.....	362	1936-
Addicks Reservoir near Addicks, Tex.....	129	1948-
Whiteoak Bayou at Houston, Tex.....	92	1936-
Brays Bayou at Houston, Tex.....	100	1936-
<u>Clear Creek Basin</u>		
Clear Creek near Pearland, Tex.....	--	1944***; 1946***; 1947-***
Hickory Slough near Pearland, Tex.....	--	1944***; 1946***; 1947-***
<u>Chocolate Bayou Basin</u>		
Chocolate Bayou near Alvin, Tex.....	--	1944***; 1946***; 1947-***
<u>Bastrop Bayou Basin</u>		
Austin Bayou near Danbury, Tex.....	--	1944***; 1946***; 1947-***
<u>Oyster Creek Basin</u>		
Oyster Creek near Angleton, Tex.....	--	1944-
<u>Brazos River Basin</u>		
Brazos River, Double Mountain Fork, at Lubbock, Tex.....	--	1939-
Brazos River, Double Mountain Fork, near Aspermont, Tex.....	a/7,979	1923-34; 1939-
Brazos River at Seymour, Tex.....	b/14,490	1923-
Brazos River near Graham, Tex.....	c/15,730	1915-20.

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

\*\*\* Fragmentary.

a/ 6,470 square miles probably noncontributing.

b/ 9,240 square miles probably noncontributing.

<u>Brazos River Basin—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Brazos River near South Bend, Tex.....	b/ 21,600	1938-
Possum Kingdom Reservoir near Graford, Tex.....	b/ 22,550	1941-**
Brazos River near Palo Pinto, Tex.....	b/ 22,760	1933-
Brazos River near Mineral Wells, Tex.....	b/ 23,150	1924-33.
Brazos River at Brazos, Tex.....	b/ 23,260	1914-20.
Brazos River near Glen Rose, Tex.....	b/ 24,840	1923-
Brazos River near Whitney, Tex.....	b/ 26,090	1938-
Brazos River at Waco, Tex.....	b/ 28,500	1898-1911; 1912-14**; 1914-
Brazos River near Marlin, Tex.....	b/ 29,150	1938-
Brazos River near Lewis (Hearne), Tex.....	—	1898-99*.
Brazos River near Bryan, Tex.....	b/ 38,430	1925-
Brazos River near College Station, Tex.....	b/ 38,530	1918-25.
Brazos River near Hempstead, Tex.....	b/ 42,670	1938-
Brazos River near San Felipe, Tex.....	b/ 43,690	1938-45; 1945-*
Brazos River at Rosenberg, Tex.....	b/ 44,020	1922-31.
Brazos River at Richmond, Tex.....	b/ 44,050	1903-06; 1931-
Brazos River at East Columbia, Tex.....	b/ 44,540	1938-39*; 1939-40***; 1940-41*; 1942-***
Salt Fork Brazos River near Aspermont, Tex.....	c/ 4,834	1923-25; 1939-
White River at Plainview, Tex.....	—	1939-
Clear Fork Brazos River at Nugent, Tex.....	2,220	1924-
Clear Fork Brazos River at Fort Griffin, Tex.....	3,974	1923-
Clear Fork Brazos River at Crystal Falls, Tex.....	4,323	1921-29.
Clear Fork Brazos River near Crystal Falls, Tex.....	5,658	1928-
Clear Fork Brazos River near Eliasville, Tex.....	5,740	1915-20; 1923-25.
Fort Phantom Hill Reservoir near Nugent, Tex.....	478	1940-**
Palo Pinto Creek near Santo, Tex.....	507	1924-25.
Paluxy Creek at Glen Rose, Tex.....	399	1923-25; 1947-
Nolands River at Blum, Tex.....	275	1924-25; 1947-
Aquilla Creek near Aquilla, Tex.....	309	1924-25; 1938-
North Bosque River near Clifton, Tex.....	974	1923-
South Bosque River near Speegleville, Tex.....	388	1924-30.
Deer Creek at Chilton, Tex.....	81.8	1934-36.
Leon River near Hasse, Tex.....	1,276	1939-
Leon River near Hamilton, Tex.....	1,895	1925-31.
Leon River near Belton, Tex.....	3,547	1923-
Little River near Little River, Tex.....	5,253	1923-29.
Little River at Cameron, Tex.....	7,034	1916-
Cowhouse Creek near Killean, Tex.....	650	1924-25; 1939-42.
Lampasas River at Youngsfort, Tex.....	1,242	1924-
Sulphur Creek seepage investigations.....	—	1942.
San Gabriel River at Georgetown, Tex.....	415	1924-25; 1934-
San Gabriel River at Circleville, Tex.....	602	1924-34.
Brushy Creek at Coupland, Tex.....	198	1924-26.
Big Elm Creek near Temple, Tex.....	68.5	1934-36.
Big Elm Creek near Buckholts, Tex.....	166	1934-36.
North Elm Creek near Ben Arnold, Tex.....	30.3	1934-36.
Yegua Creek near Somerville, Tex.....	990	1924-
Navasota River near Easterly, Tex.....	949	1924-
American Canal Co.'s canal (Brazos Valley Irrigation Co.'s canal), near Fulshear, Tex.....	—	1931-
Richmond Irrigation Co.'s canal near Richmond, Tex.....	—	1931-
Dry Creek near Richmond, Tex.....	10.3	1947-
Big Creek near Needville, Tex.....	37.6	1947-
Big Creek near Guy, Tex.....	112	1947-
Fairchild Creek near Needville, Tex.....	24.9	1947-

Colorado River (of Texas) Basin

Colorado River near Ira, Tex.....	d/ 3,617	1947-
Colorado River at Colorado City (Colorado), Tex.....	d/ 4,082	1923-25; 1946-
Colorado River at Robert Lee, Tex.....	e/ 15,770	1939-

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents

\*\*\* Fragmentary.

b/ 9,240 square miles probably noncontributing.

c/ 2,770 square miles probably noncontributing.

d/ 2,590 square miles probably noncontributing.

e/ 11,600 square miles probably noncontributing.

<u>Colorado River Basin—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Colorado River near Robert Lee, Tex.....	e/ 15,860	1923-27.
Colorado River near Bronte, Tex.....	e/ 15,940	1915-18; 1918-20*.
Colorado River at Ballinger, Tex.....	e/ 16,840	1907-15**; 1915-
Colorado River at Winchell, Tex.....	f/ 24,580	1939-
Colorado River near Milburn, Tex.....	f/ 24,600	1923-34.
Colorado River near Chadwick, Tex.....	f/ 30,600	1915-22.
Colorado River near San Saba, Tex.....	f/ 30,600	1930-
Colorado River near Tow, Tex.....	f/ 31,120	1923-34.
Buchanan Reservoir near Burnet, Tex.....	f/ 31,250	1937-**
Colorado River at Marble Falls, Tex.....	f/ 36,120	1916-26.
Marshall Ford Reservoir near Austin, Tex.....	f/ 37,900	1940-**
Colorado River at dam above Austin, Tex.....	f/ 38,000	1895-98.
Colorado River at Austin, Tex.....	f/ 38,160	1898-
Evaporation at Austin, Tex.....	—	1911, 1916-39.
Colorado River at Smithville, Tex.....	f/ 39,650	1930-
Colorado River at La Grange, Tex.....	f/ 40,200	1938-
Colorado River at Columbus, Tex.....	f/ 40,840	1903*; 1904-11; 1916-30; 1939-
Colorado River near Eagle Lake, Tex.....	f/ 40,940	1930-39.
Colorado River at Wharton, Tex.....	f/ 41,150	1916-25; 1938-
Colorado River at Bay City, Tex.....	f/ 41,420	1948-
Colorado River seepage investigations.....	—	1918; 1925.
Bull Creek near Ira, Tex.....	388	1947-
Bluff Creek near Ira, Tex.....	38.0	1947-
Deep Creek near Snyder, Tex.....	120	1923-25.
Morgan Creek near Colorado City, Tex.....	236	1947-
Champlin Creek near Colorado City, Tex.....	158	1947-
Elm Creek at Ballinger, Tex.....	458	1932-
South Concho River (head of Concho River) at Christoval, Tex.....	434	1930-
Lake Nasworthy near San Angelo, Tex.....	h/ 2,659	1930-**
South Concho River at San Angelo, Tex.....	h/ 2,687	1931-
South Concho River seepage investigations.....	—	1918; 1925.
Concho River near San Angelo, Tex.....	e/ 4,492	1915-
Concho River near Paint Rock, Tex.....	e/ 5,538	1915-
Concho River seepage investigations.....	—	1918; 1925.
South Concho Irrigation Co.'s canal at Christoval, Tex.....	—	1939-
Middle Concho River near Tankersly, Tex.....	h/ 1,280	1930-
Middle Concho River seepage investigations.....	—	1918; 1925.
Spring Creek near Tankersly, Tex.....	734	1930-
Spring Creek seepage investigations.....	—	1918; 1925.
Dove Creek near Knickerbocker, Tex.....	—	1944-
Dove Creek seepage investigations.....	—	1925.
Dove Creek Springs near Knickerbocker, Tex.....	—	1944-*
North Concho River at Sterling City, Tex.....	i/ 690	1939-
North Concho River near Carlsbad, Tex.....	j/ 1,529	1924-
North Concho River at San Angelo, Tex.....	j/ 1,795	1915-31; 1947-
North Concho River seepage investigations.....	—	1918; 1925.
Brownwood Reservoir near Brownwood, Tex.....	1,535	1933-41**; 1944-**
Pecan Bayou at Brownwood, Tex.....	1,614	1917-18; 1923-
Hords Creek Reservoir near Valera, Tex.....	—	1948-
Hords Creek near Valera, Tex.....	—	1947-
Hords Creek at Coleman, Tex.....	107	1940-
San Saba River at Menard, Tex.....	1,151	1915-
San Saba River near San Saba, Tex.....	3,038	1904-06; 1915-30.
San Saba River at San Saba, Tex.....	3,046	1930-
San Saba River seepage investigations.....	—	1918; 1933; 1940.
Noyes Canal at Menard, Tex.....	—	1924-
Brady Creek at Brady, Tex.....	575	1939-
North Llano River near Junction, Tex.....	914	1915-
North Llano River seepage investigation.....	—	1925.
Llano River near Junction, Tex.....	1,762	1915-

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

e/ 11,600 square miles probably noncontributing.

f/ 11,900 square miles probably noncontributing.

g/ 275 square miles probably noncontributing.

h/ 152 square miles probably noncontributing.

i/ 75 square miles probably noncontributing.

j/ 123 square miles probably noncontributing.

<u>Colorado River tributaries--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Llano River near Castell, Tex.....	3,514	1923-39.
Llano River at Llano, Tex.....	4,000	1939-
Llano River seepage investigations.....	—	1918; 1925.
South Llano River seepage investigations.....	—	1918; 1925.
Johnson Fork Llano River seepage investigations.....	—	1925.
Pedernales River at Stonewall, Tex.....	647	1924-34.
Pedernales River near Johnson City, Tex.....	947	1939-
Pedernales River near Spicewood, Tex.....	1,294	1923-39.
Barton Creek at Austin, Tex.....	125	1917-18.
Barton Springs at Austin, Tex.....	—	1918-26*; 1940-*
Little Walnut Creek near Austin, Tex.....	12	1924-26.
Onion Creek near Del Valle, Tex.....	337	1924-30.
Dry Creek at Buescher Lake, near Smithville, Tex.....	1.48	1939-
<u>Lavaca River Basin</u>		
Lavaca River at Hallettsville, Tex.....	101	1939-
Lavaca River near Edna, Tex.....	887	1938-
Lavaca River seepage investigation.....	—	1948.
Navidad River near Ganado, Tex.....	1,116	1939-
<u>Guadalupe River Basin</u>		
Guadalupe River at Hunt, Tex.....	370	1941-
Guadalupe River near Comfort, Tex.....	916	1917-32.
Guadalupe River at Comfort, Tex.....	990	1939-
Guadalupe River near Spring Branch, Tex.....	1,432	1922-
Guadalupe River above Comal River, at New Braunfels, Tex.....	1,666	1927-
Guadalupe River at New Braunfels, Tex.....	1,774	1898-99; 1915-27.
Guadalupe River near Gonzales, Tex.....	3,603	1915-22.
Guadalupe River near Cuero, Tex.....	5,020	1903-06; 1915-16.
Guadalupe River below Cuero, Tex.....	5,073	1916-35.
Guadalupe River at Victoria, Tex.....	5,311	1934-
Guadalupe River seepage investigation.....	—	1928-29.
Johnson Creek near Ingram, Tex.....	150	1941-
Hueco Springs near New Braunfels, Tex.....	—	1944- <del>///</del>
Comal River at New Braunfels, Tex.....	k/ 94	1882-1927*; 1927-
San Marcos Springs at San Marcos, Tex.....	—	1921- <del>///</del>
San Marcos River at San Marcos, Tex.....	40	1915-21.
San Marcos River at Luling, Tex.....	833	1939-
San Marcos River at Ottine, Tex.....	1,249	1915-43.
Blanco River at Wimberley, Tex.....	378	1924-26; 1928-
Blanco River seepage investigation.....	—	1924.
Plum Creek near Lockhart, Tex.....	184	1925-30.
Plum Creek near Luling, Tex.....	356	1930-
Peach Creek near Dilworth, Tex.....	445	1930-33.
Sandies Creek near Westhoff, Tex.....	493	1930-34.
Coleta Creek near Schroeder, Tex.....	365	1930-33.
Coleta Creek near Victoria, Tex.....	514	1939-
San Antonio River at San Antonio, Tex.....	k/ 42	1915-29; 1939-
San Antonio River at Calaveras, Tex.....	1,786	1918-25.
San Antonio River near Falls City, Tex.....	2,071	1925-
San Antonio River at Goliad, Tex.....	3,918	1924-29; 1939-
San Pedro Creek at San Antonio, Tex.....	2.64	1916-29.
Medina River near Pipe Creek, Tex.....	412	1922-34.
Medina Reservoir (Lake) near San Antonio, Tex.....	587	1913- <del>///</del>
Medina River near Riomedina, Tex.....	606	1922-34.
Medina River near San Antonio, Tex.....	1,225	1939-
Medina River seepage past station near Riomedina, Tex.....	—	1922-34.
Medina River seepage investigations.....	—	1925; 1929-30.
Medina Canal near Riomedina, Tex.....	—	1922-34.
Cibolo Creek near Bulverde, Tex.....	198	1946-
Cibolo Creek above Bracken, Tex.....	251	1946-
Cibolo Creek at Selma, Tex.....	280	1946-
Cibolo Creek at Sutherland Springs, Tex.....	665	1924-29.
Cibolo Creek near Falls City, Tex.....	831	1930-

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

~~///~~ Discharge measurements only at regular intervals.

k/ Normal flow of river comes from springs; drainage area of stream not applicable.



<u>Mission River Basin</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Mission River at Refugio, Tex.....	643	1939-
<u>Nueces River Basin</u>		
Nueces River at Laguna, Tex.....	764	1923-
Nueces River near Uvalde, Tex.....	1,930	1927-39.
Nueces River below Uvalde, Tex.....	1,947	1939-
Nueces River near Cinonia, Tex.....	2,151	1915-25.
Nueces River near Asherton, Tex.....	4,082	1939-
Nueces River near Cotulla, Tex.....	5,030	1915-18.
Nueces River at Cotulla, Tex.....	5,260	1923-
Nueces River near Tilden, Tex.....	8,192	1942-
Nueces River near Three Rivers, Tex.....	15,600	1915-
Lake Corpus Christi near Mathis, Tex.....	—	1942-**
Nueces River near Mathis, Tex.....	16,660	1939-
Nueces River at Calallen, Tex.....	16,920	1915-18; 1918-*
Nueces River seepage investigations.....	—	1924-25; 1931-33; 1939-40; 1948.
West Nueces River near Brackettville, Tex.....	700	1939-
West Nueces River seepage investigation.....	—	1941.
Frio River at Concan, Tex.....	485	1923-
Frio River near Frio Town, Tex.....	1,465	1924-27.
Frio River near Derby, Tex.....	3,493	1915-
Frio River at Fowlerton, Tex.....	4,224	1915-19.
Frio River at Calliham, Tex.....	5,491	1924-26; 1932-
Frio River at Three Rivers, Tex.....	7,031	1915.
Frio River seepage investigations.....	—	1925; 1931-32.
Dry Frio River seepage investigations.....	—	1925.
Sabinal River near Sabinal, Tex.....	206	1942-
Sabinal River seepage investigations.....	—	1934; 1942.
Leona River spring flow near Uvalde, Tex.....	—	1939-
Leona River near Divot, Tex.....	565	1924-29.
Leona River seepage investigations.....	—	1925; 1931-32; 1934; 1939; 1946-47.
Frio Lake Outlet near Fowlerton, Tex.....	—	1915-19.
Atascosa River at Whitsett, Tex.....	1,171	1924-26; 1932-
<u>Rio Grande Basin</u>		
Rio Grande at Thirtymile Bridge near Creede, Colo.....	163	1909-13; (1913-33)m/; 1933-
Rio Grande at Wason, below Creede, Colo.....	705	1907-13; (1913-33)m/; 1933-
Rio Grande near Del Norte, Colo.....	1,320	1889-1906; 1908-13; (1913-33)m/; 1933-
Rio Grande near Monte Vista, Colo.....	1,590	(1926-33)m/; 1933-
Rio Grande at Alamosa, Colo.....	1,710	1912-13; (1913-33)m/; 1933-
Rio Grande above mouth of Trinchera Creek, near La Sauses, Colo.....	5,740	1936-
Rio Grande near Lobatos, Colo.....	7,700	1899-1913; (1913-33)m/; 1933-
Rio Grande near Cerro, N. Mex.....	—	1948-
Rio Grande below (at) Taos Junction Bridge near Taos, N. Mex.....	9,730	(1925; 1926-30)m/; 1930-
Rio Grande at Embudo, N.Mex.....	10,400	1889-1903; 1912-16; (1916-30)m/; 1930-
Rio Grande at Otowi Bridge <u>n/</u> near San Ildefonso, N. Mex.....	14,300	1895-1905; 1909-14; (1915-30)m/; 1930-
Rio Grande at (near) Cochiti, N. Mex.....	14,600	(1925**; 1926-30)m/; 1930-
Rio Grande at San Felipe, N. Mex.....	16,100	(1926-30)m/; 1930-
Rio Grande near Bernalillo, N. Mex.....	—	1941-
Rio Grande at Albuquerque, N. Mex.....	—	1942-
Rio Grande near (at) Isleta, N. Mex.....	17,750	1936-38.
Rio Grande near Belen, N. Mex.....	—	1942-
Rio Grande near Bernardo, N. Mex.....	19,230	1936-39; 1941-
Rio Grande at San Acacia, N. Mex.....	26,770	(1925**; 1926-27*)m/; 1936-
Rio Grande at (near) San Marcial, N. Mex.....	27,700	1895-
Elephant Butte Reservoir at Elephant Butte, N. Mex.....	—	(1924-39**)o/; 1940-

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

m/ In reports of State Engineer.

n/ In early reports, designated as at Water Tank, at Rio Grande, and near Buckman.

o/ In International Boundary Commission Water Bulletins.

<u>Rio Grande Basin--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Rio Grande below Elephant Butte Dam, N. Mex.....	—	1916-
Caballo Reservoir near Arrey, N. Mex.....	—	1938-
Rio Grande below Caballo Dam, N. Mex.....	—	1938-
Rio Grande at Percha Dam, near Arrey, N. Mex.....	—	(1926-31)m/.
Rio Grande at Leasburg Dam, near Fort Seldon, N. Mex.....	—	(1926-31)m/.
Rio Grande near El Paso, Tex.....	o/ 29,267	1889-93; (1894)o/;
		1895-1931; (1932-)o/
Rio Grande below American Dam, Tex.....	o/ 29,271	(1938-)o/
Rio Grande at Cd. Juarez, Chih., Mex.....	o/ 29,359	(1938-)o/
Rio Grande at Island Station near El Paso, Tex.....	o/ 29,977	(1938-)o/
Rio Grande at County Line Station near El Paso, Tex.....	o/ 30,648	(1938-)o/
Rio Grande at Tornillo Bridge near Fabens, Tex.....	—	(1924-27)o/; 1927-31;
		(1931-37)o/.
Rio Grande near Fort Hancock, Tex.....	—	1900-03.
Rio Grande below Old Fort Quitman near Finlay, Tex.....	o/ 31,990	1923-31; (1931-)o/
Rio Grande at La Nutria, Tex.....	o/ 33,917	(1935-41)o/.
Rio Grande above Presidio, Tex (Upper Presidio).....	o/ 35,000	1900-14; 1919-20; 1923-26;
		(1926-)o/
Rio Grande below Presidio, Tex (Lower Presidio).....	o/ 59,767	1900-15; 1919-20; 1923-26;
		(1924-)o/
Rio Grande at Johnson Ranch, Tex.....	o/ 66,451	(1936-)o/
Rio Grande at Boquillas, Tex.....	o/ 70,657	(1924-28)o/**; 1928-31;
		(1931-36)o/.
Rio Grande at and near Langtry, Tex.....	o/ 79,375	1900-14; 1919-20; 1924-31;
		(1931-)o/
Rio Grande near Devils River, Tex.....	—	1900-15; 1919-20.
Rio Grande near Del Rio, Tex.....	o/ 121,911	1923-31; (1931-)o/
Rio Grande at Eagle Pass, Tex.....	o/ 125,504	1900-16; 1923-31; (1931-)o/
Rio Grande near Laredo, Tex.....	o/ 130,859	1900-14; 1922-26; (1924-)o/
Rio Grande at Zapata, Tex.....	o/ 154,426	(1932-)o/
Rio Grande at Roma, Tex.....	o/ 157,448	1900-14; 1922-25; 1929-31;
		(1924-29)o/; (1931-)o/
Rio Grande at Rio Grande City, Tex.....	o/ 170,986	(1924-)o/
Rio Grande at Hidalgo, Tex.....	o/ 171,831	1928-31; (1931-)o/
Rio Grande at Las Palmas, Tam., Mex.....	—	(1945-)o/
Rio Grande at Buenos Aires, Tam., Mex.....	—	(1943-44)o/.
Rio Grande at Mercedes Bridge, Tex.....	o/ 171,861	(1935-41)o/.
Rio Grande at Matamoros, Tam., Mex.....	o/ 171,883	1900-14; 1922-26; (1926-)o/
Rio Grande at Lower Brownsville Station, Tex.....	o/ 171,887	(1934-)o/
Rio Grande seepage investigations.....	—	1925-26; 1928.
Clear Creek below Continental Reservoir, Colo.....	51.7	(1929-33)m/; 1933-
Clear Creek near Creede, Colo.....	—	1910.
Goose Creek near Wagonwheel Gap, Colo.....	53.6	1924-26; 1939-
South Fork Rio Grande at South Fork, Colo.....	216	1910-13; (1913-22)m/; 1936-
Pinos Creek near Del Norte, Colo.....	53	(1919-24)m/; 1936-
San Francisco Creek near Del Norte, Colo.....	13.1	1936-42.
Empire Canal below Bowen Drain Crossing, near Alamosa, Colo.....	—	1936.
Bowen drain below Empire Canal Crossing, near Alamosa, Colo.....	—	1936.
Rock Creek near Monte Vista, Colo.....	33.6	(1919-24)m/; 1935-
Rock Creek near Alamosa, Colo.....	—	1936.
<u>Closed basin in San Luis Valley, Colo.</u>		
San Luis Creek at Villa Grove, Colo.....	—	1911-12.
San Luis Creek near Villa Grove, Colo.....	—	1910; (1911-12; 1922-26)m/.
Kerber Creek at Ashley Ranch, near Villa Grove, Colo.....	38	(1923-26)m/; 1936-
Kerber Creek near Villa Grove, Colo.....	80	1911-12; (1923-26)m/.
Kerber Creek below (near) Villa Grove, Colo.....	—	(1922)m/.
Saguache Creek near Saguache, Colo.....	595	1910-12; (1914-33)m/; 1933-
North Crestone Creek near Crestone, Colo.....	10.7	1936-
South Crestone Creek near Crestone, Colo.....	—	(1915)m/; 1936.
Willow Creek near Crestone, Colo.....	—	(1915)m/; 1936.
Spanish Creek near Crestone, Colo.....	—	(1915)m/; 1936.
Cottonwood Creek near Crestone, Colo.....	—	(1915)m/; 1936.
Deadman Creek near Crestone, Colo.....	—	(1915)m/; 1936.
Carnero Creek near La Garita, Colo.....	117	(1919-33)m/; 1933-

\*\* Only monthly figures of discharge or contents.

m/ In reports of State Engineer.

o/ In International Boundary Commission Water Bulletins.

<u>Rio Grande tributaries--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
<u>Closed basin in San Luis Valley, Colo--continued</u>		
La Garita Creek near La Garita, Colo.....	61	(1919-33)m/; 1933-
North lateral Farmers Union ditch near Hooper, Colo.....	—	1936.
Farmers Union drain near Hooper, Colo.....	—	1936.
Arena (Sand) Creek near Crestone, Colo.....	—	1936.
Prairie ditch near Mosca, Colo.....	—	1936.
Seepage and waste from Rio Grande into closed basin.....	—	1936.
Alamosa Creek at Jasper, Colo.....	64	1931-33.
Alamosa Creek above Terrace Reservoir (near Monte Vista), Colo.....	107	1911-12; (1915-19)m/ (1923-27)m/; 1934-
Alamosa Creek below Terrace Reservoir (near La Jara), Colo.....	116	1909-12; (1915; 1917-20; 1923-33)m/; 1933-
Alamosa Creek near Capulin, Colo.....	138	1936.
La Jara Creek at Callegos Ranch, near Capulin, Colo.....	79	1936-
La Jara Creek near Capulin, Colo.....	—	(1916-17; 1919-33)m/; 1933-35.
La Jara Creek below Empire Canal, near Sanford, Colo.....	—	1936.
La Jara Creek at Mouth, near Alamosa, Colo.....	286	(1925-32)m/ 1936.
La Jara drain near Sanford, Colo.....	—	1936.
Trinchera Creek above Turners Ranch, near Fort Garland, Colo.....	45	(1923-33)m/; 1933-
Trinchera Creek above Mountain Home Reservoir, near Fort Garland, Colo.....	61	(1923-33)m/; 1933-
Trinchera Creek below Smith Reservoir, near Blanca, Colo.....	396	(1929-33)m/; 1933-
Trinchera Creek at Mouth, near La Sauses, Colo.....	—	1936.
Sangre de Cristo Creek near Fort Garland, Colo.....	187	(1916; 1923-33)m/; 1933-
Sangre de Cristo Creek above Smith Reservoir, near Blanca, Colo...	231	(1929-33)m/; 1933-34; 1936.
Ute Creek at upper station, near Fort Garland, Colo.....	23.3	1936; 1939-41.
Ute Creek near Fort Garland, Colo.....	32	(1916; 1923-33)m/; 1933-
Conejos River at Platoro, Colo.....	44.4	1937-
Conejos River at Counsellors Cabin, near Mogote, Colo.....	211	1943-47.
Conejos River near Mogote, Colo.....	282	1899-1900; 1903-13; (1913-33)m/; 1933-
Conejos River near La Sauses, Colo.....	887	(1921-33)m/; 1933-
San Antonio River near Ortiz, Colo.....	—	1911.
San Antonio River at Ortiz, Colo.....	110	(1915; 1919-20; 1924-33)m/; 1933-
San Antonio River at mouth, near Manassa, Colo.....	348	(1923-33)m/; 1933-
Los Pinos River near Ortiz, Colo.....	167	(1914-20; 1924-33)m/; 1933-
Culebra River near Chama, Colo.....	—	(1924-26)m/ (1909)m/; 1910-11; (1927-33)m/; 1933-
Culebra Creek at San Luis, Colo.....	220	1938-
Culebra Creek below San Luis, Colo.....	255	1936.
Culebra Creek at mouth, near San Acacio, Colo.....	—	1937-
Costilla Creek above reservoir near Costilla, N. Mex.....	—	1937-
Costilla Creek below reservoir near Costilla, N. Mex.....	—	1936.
Costilla Creek near Costilla, N. Mex.....	—	1944-
Costilla Creek at Garcia, Colo.....	—	1912-13**; 1936; 1948-
Costilla Creek near Jaroso, Colo (near mouth, N. Mex.).....	—	1937-
Casias Creek near Costilla, N. Mex.....	—	1937-
Santistevan Creek near Costilla, N. Mex.....	—	1944-***
Acequia Madre at Costilla, N. Mex.....	—	1944-***
Mesa ditch near Garcia, Colo.....	—	1944-***
Middle ditch at Garcia, Colo.....	—	1944-***
Cordillera ditch at Garcia, Colo.....	—	1944-***
Cerro Canal at Costilla, N. Mex.....	—	1944-***
Cerro Canal near Jaro, Colo.....	—	1944-***
New Mexico Branch Cerro Canal near Jaroso, Colo.....	—	1944-***
Alire ditch at Garcia, Colo.....	—	1944-***
Eastdale No. 1 Intake Canal near Jaroso, Colo.....	—	1937-
Latir Creek near Cerro, N. Mex.....	—	1940-
Red River (Rio Colorado) near Red River, N. Mex.....	—	1910-11*.
Red River (Rio Colorado) above Questa, N. Mex.....	—	1912-15; (1915-24; 1924-25**; 1926-30)m/; 1930-
Red River (Rio Colorado) near Questa, N. Mex.....	112	

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

m/ In reports of State Engineer.

<u>Rio Grande tributaries—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Red River (Rio Colorado) below Questa, N. Mex.....	—	1910-15; (1915-24; 1924-25**; 1926-28)m/.
Cabresto Creek near Questa, N. Mex.....	—	1943-
Llano ditch near Questa, N. Mex.....	—	1943-**
Rio Hondo near Valdez, N. Mex.....	—	1934-
Rio Hondo at Valdez, N. Mex.....	38	(1916-24; 1924-25**; 1926-30)m/; 1930-34.
Rio Hondo at (near) Arroyo Hondo, N. Mex.....	—	1910-12*; 1912-15; (1915-24; 1924-25**; 1926-28)m/; 1932-
Rio Pueblo de Taos near Taos, N. Mex.....	—	1910*; 1911-16; 1940-
Rio Pueblo de Taos at Taos, N. Mex.....	—	1936-41.
Rio (Pueblo de) Taos at Los Cordovas, N. Mex.....	—	1910-15; (1915-24; 1924-25**; 1926-30)m/; 1930-
Acequia Madre at Taos, N. Mex.....	—	1940-41**.
North Channel of Rio Pueblo de Taos at Taos, N. Mex.....	—	1936-41.
Rio Lucero near (Taos) Arroyo Seco, N. Mex.....	—	1910*; 1911-16; 1933-
Rio Lucero below diversions near Arroyo Seco, N. Mex.....	—	1934-41.
Tenorio ditch near Arroyo Seco, N. Mex.....	—	1935-39; 1940-**
Rio Lucero diversions near Arroyo Seco, N. Mex.....	—	1932-33.
Indian ditch near Arroyo Seco, N. Mex.....	—	1934-39; 1940-**
Seco ditch near Arroyo Seco, N. Mex.....	—	1934-39; 1940-**
Juan Manual ditch near Arroyo Seco, N. Mex.....	—	1935-39; 1940-**
Prado ditch near Arroyo Seco, N. Mex.....	—	1934-39; 1940-**
Rio Fernando de Taos near Taos, N. Mex.....	64	1910*; 1912-15; (1915-24; 1924-25**; 1926-28)m/.
Rio Ranchos de Taos near Ranchos de Taos, N. Mex.....	149	(1920-24; 1924-25**; 1926)m/.
Carson Reservoir near (Stong) Carson, N. Mex.....	—	1940-
Embudo Creek at Dixon, N. Mex.....	305	(1923-24; 1924-25**; 1926-30)m/; 1930-
Pueblo Creek near Penasco, N. Mex.....	—	1936-41.
Picuris ditch near Penasco, N. Mex.....	—	1936-39; 1940-41**.
Alcalde ditch (at Alcalde) near Chamita, N. Mex.....	—	1936-39; 1940-41**.
San Rafael ditch at Alcalde, N. Mex.....	—	1936-39; 1940-41**.
Acequia Madre at Alcalde, N. Mex.....	—	1936-39; 1940-41**.
Rio Chama (Chama River) near (at) Chama, N. Mex.....	—	1912-17.
Rio Chama (Chama River) at Parkview, N. Mex.....	405	1912-16; (1925-30)m/; 1930-
El Vado Reservoir near Tierra Amarilla, N. Mex.....	—	1935-
Rio Chama (Chama River at El Vado) (near Tierra Amarilla) below El Vado Dam, N. Mex.....	—	1913-16; (1920-24)m/; 1935-
Rio Chama (Chama River) at Abiquiu, N. Mex.....	—	1895-97*.
Rio Chama near Abiquiu, N. Mex.....	—	1942-
Rio Chama (Chama River) near (at) Chamita, N. Mex.....	—	1912-15; (1915-24; 1924-25**; 1926-30)m/; 1930-
Brazos River near Brazos, N. Mex.....	—	1912-17.
Brazos River at Brazos, N. Mex.....	—	1912-13.
Little Brazos River near Brazos, N. Mex.....	—	1914-15.
Nutrias Creek near Tierra Amarilla, N. Mex.....	—	1914-15*.
Willow Creek near Parkview, N. Mex.....	—	1936-
Nutrias Creek near Cebolla, N. Mex.....	—	1914-15.
Horn River (Rio Canjilon) near Canjilon, N. Mex.....	—	1911-14.
El Rito Creek near El Rito, N. Mex.....	—	1931-
Rio Ojo Caliente at La Madera, N. Mex.....	—	1932-
Rio Vallecitos at Vallecitos, N. Mex.....	—	1911-14.
Chamita ditch near Chamita, N. Mex.....	—	1936-39; 1940-41**.
Santa Clara ditch near Espanola, N. Mex.....	—	1936-39; 1940-41**.
Rio Medio (head of Rio Santa Cruz) above Cundiyo, N. Mex.....	20	(1915-24; 1924-25**; 1926-28)m/.
Rio Santa Cruz (Rio Medio) at Cundiyo, N. Mex.....	—	(1915-24; 1924-25**; 1926-31)m/; 1931-
Rio Santa Cruz (Rio Medio) above Chimayo, N. Mex.....	40	(1928-29)m/.
Rio Santa Cruz (Rio Medio) at Chimayo, N. Mex.....	42	(1915-24; 1924-25**; 1926-27)m/.

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\*\* Only monthly figures of discharge or contents.

m/ In reports of State Engineer.

<u>Rio Grande tributaries—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Rio Santa Cruz at Riverside, N. Mex.....	—	1942-
Rio Frijoles at Cundiyo, N. Mex.....	13	(1915-24; 1924-25**; 1926-28)m/.
Rio Chiquito at Cordova, N. Mex.....	34	(1915-24; 1924-25**; 1926-27)m/.
Rio Chiquito at Chimayo, N. Mex.....	45	(1915-24; 1924-25***)m/.
Santa Clara Creek near Espanola, N. Mex.....	—	1936-41.
Hill Acequia near Espanola, N. Mex.....	—	1939-41**.
Guachypangue ditch near Espanola, N. Mex.....	—	1936-39; 1939-41**.
San Ildefonso ditch near Espanola, N. Mex.....	—	1939-41**.
Nambe Creek (head of Pojoaque Creek) near Nambe, N. Mex.....	—	1932-
Nambe Creek at Pojoaque Bridge near Nambe, N. Mex.....	—	1936-41.
Nambe Canal near Nambe, N. Mex.....	—	1932-39; 1939-**
Llano Frio ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Llano ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Mocha ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Comunidad ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Ortiz ditch at Nambe, N. Mex.....	—	1936-39; 1939-**
Canyon ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Acequia Rincon near Nambe, N. Mex.....	—	1936-39; 1939-**
Las Joyas ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Trujillo ditch near Nambe, N. Mex.....	—	1936-39; 1939-45**.
Barranco Alto ditch near Nambe, N. Mex.....	—	1936-39; 1939-**
Jacona ditch near Nambe, N. Mex.....	—	1936-39.
Jacona ditch near San Ildefonso, N. Mex.....	—	1940-48**.
Rio Tesuque above diversions near Santa Fe, N. Mex.....	—	(1919)m/; 1936-
Rio Tesuque at Tesuque near Santa Fe, N. Mex.....	—	1938-41.
Rio Tesuque at Tesuque Bridge near Santa Fe, N. Mex.....	—	1936-38.
Rito Tesuque near Santa Fe, N. Mex.....	—	1936-41.
Cajon Grande ditch near Santa Fe, N. Mex.....	—	1936-39; 1939-41**.
De la Cruz ditch near Santa Fe, N. Mex.....	—	1936-39; 1939-41**.
Acequia Madre near Santa Fe, N. Mex.....	—	1936-39; 1939-41**.
Acequia Medio near Santa Fe, N. Mex.....	—	1936-39; 1939-47**.
Hubbard ditch near Santa Fe, N. Mex.....	—	1938-39; 1939-41**.
Mitchell ditch near Santa Fe, N. Mex.....	—	1936-39; 1939-**
Post ditch near Tesuque Pueblo, N. Mex.....	—	1936-39; 1939-41**.
Qwlyo ditch near Tesuque Pueblo, N. Mex.....	—	1936-39; 1939-41**.
Corral ditch near Tesuque Pueblo, N. Mex.....	—	1936-39; 1939-41**.
Del Barranco ditch near San Ildefonso, N. Mex.....	—	1936-39; 1939-41**.
De la Otra Banda ditch near San Ildefonso, N. Mex.....	—	1936-39; 1939-41**.
Rancho ditch near San Ildefonso, N. Mex.....	—	1936-39; 1939-41**.
De los Indios ditch near San Ildefonso, N. Mex.....	—	1936-39; 1939-41**.
Well ditch near San Ildefonso, N. Mex.....	—	1938-39; 1939-**
Ortiz ditch near San Ildefonso, N. Mex.....	—	1936-39; 1939-41**.
Santa Fe Creek at Monument Rook near Santa Fe, N. Mex.....	—	1910.
McClure (Granite Point) Reservoir near Santa Fe, N. Mex.....	—	1947-
Santa Fe Creek (above reservoir) near Santa Fe, N. Mex.....	—	1913-14; (1915-24; 1924-25**; 1926-30)m/; 1930-
Santa Fe Creek (below first diversion) near Santa Fe, N. Mex.....	—	1910; 1913*.
Nichols Reservoir near Santa Fe, N. Mex.....	—	1942-
Santa Fe Creek at Santa Fe, N. Mex.....	40	1907-10; 1911*.
Santa Fe Water and Light Co. ditch near Santa Fe, N. Mex.....	—	1910*.
Arroyo Hondo near Santa Fe, N. Mex.....	13.5	1913-14; (1915-22)m/.
Gallisteo Creek at Domingo, N. Mex.....	—	1941-
San Felipe east side acequia near Domingo, N. Mex.....	—	1936-39; 1939-41**.
Jemez Creek near Jemez, N. Mex.....	—	1936-41.
Jemez Creek at San Ysidro, N. Mex.....	—	1936-41.
Jemez Creek (Rio Jemez) near San Ysidro, N. Mex.....	1,158	(1923-24; 1924-25**; 1926-27*)m/.
Jemez Creek near Bernalillo, N. Mex.....	—	1936-38; 1943-
Rio Las Vacas near Cuba, N. Mex.....	—	1938-41.
Rio Guadalupe near Jemez Springs, N. Mex.....	—	1938-41.
Rio Cebolla near Jemez Springs, N. Mex.....	—	1939.
Jemez west side ditch near Jemez, N. Mex.....	—	1936-39; 1939-41**.
Jemez east side ditch near Jemez, N. Mex.....	—	1936-39; 1939-41**.

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\*\* Only monthly figures of discharge or contents.

m/ In reports of State Engineer.

Note.— Many stations on canals and drains in the Rio Grande Basin between Santa Fe and San Marcial, N. Mex., are not listed in this index. Records for those stations from 1936 to 1938 are published in Water-Supply Papers 858 and 876.

<u>Rio Grande tributaries—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
<u>Jemez Creek tributaries—Continued</u>		
Antonio Pecos ditch near Jemez, N. Mex.....	—	1936-39; 1939-41**.
San Ysidro ditch near San Ysidro, N. Mex.....	—	1936-39; 1939-41**.
Zia ditch near San Ysidro, N. Mex.....	—	1936-39; 1939-41**.
Tijeras Creek near Albuquerque, N. Mex.....	—	(1921-22)m/; 1943-
Rio Puerco near Cabezón, N. Mex.....	360	1943-
Rio Puerco at Cabezón, N. Mex.....	—	1944-
Rio Puerco near Guadalupe, N. Mex.....	1,860	1943.
Rio Puerco at Rio Puerco, N. Mex.....	5,160	1910-12*; 1913-14; (1915-24; 1924-25**; 1926-27)m/; 1934-
Rio Puerco near Bernardo (La Joya), N. Mex.....	—	1911-14*; 1939-
La Jara Creek near La Jara, N. Mex.....	—	1932-33.
Chico Arroyo near Guadalupe, N. Mex.....	1,390	1943-
Bluewater Creek (head of San Jose River) near Bluewater, N. Mex...	235	1912-14; (1915-19; 1921-24; 1924-25**; 1926-30)m/; 1930-
Bluewater Creek at Grants, N. Mex.....	383	1912-13; 1914*; (1915-24; 1924-25**; 1926)m/.
San Jose River near Grants, N. Mex.....	—	1936-
San Jose River near San Fidel, N. Mex.....	—	1936-41.
San Jose River near Casa Blanca, N. Mex.....	—	1936-41.
San Jose River near Laguna, N. Mex.....	—	1937-41.
San Jose River at Correo, N. Mex.....	—	1943-
San Jose River near Sawanee, N. Mex.....	550	1910; 1911*; 1912-14; (1915-17)m/.
San Mateo Reservoir at San Mateo, N. Mex.....	—	1939-43**.
Encinal Creek near Casa Blanca, N. Mex.....	—	1936-39; 1939-40**.
Paguate Creek near Laguna, N. Mex.....	—	1937-41.
McCartys South Side ditch near San Fidel, N. Mex.....	—	1940-41**.
McCartys North Side ditch near San Fidel, N. Mex.....	—	1940-41**.
Acomita Reservoir outlet near San Fidel, N. Mex.....	—	1938-40; 1940-41**.
Seama-Paraje ditch near Casa Blanca, N. Mex.....	—	1937-39; 1939-41**.
Casa Blanca ditch at Casa Blanca, N. Mex.....	—	1937-39; 1939-41**.
New Laguna ditch near New Laguna, N. Mex.....	—	1937-39; 1939-41**.
Laguna ditch at New Laguna, N. Mex.....	—	1937-39; 1939-41**.
Mesita ditch near Laguna, N. Mex.....	—	1936-39; 1939-41**.
Paguate Reservoir outlet near Laguna, N. Mex.....	—	1940-41**.
New Laguna ditch wasteway near Casa Blanca, N. Mex.....	—	1937-39; 1939-41**.
Rio Salado near San Acacia, N. Mex.....	—	1948-
Socorro Main Canal north at San Acacia, N. Mex.....	—	1936-41; 1941**.
Socorro Main Canal south (at end) near San Antonio, N. Mex.....	—	1937-38; 1948**.
San Antonio Riverside drain near San Antonio, N. Mex.....	—	1936-38; 1948**.
San Antonio Riverside drain near San Marcial, N. Mex.....	—	1948**.
Elmendorf Interior drain near San Antonio, N. Mex.....	—	1936-38**; 1948**.
Alamosa River near Monticello, N. Mex.....	470	(1929)m/; 1931-42.
Las Palomas River near Las Palomas, N. Mex.....	166	(1931)m/.
Diversions from the Rio Grande into The American Canal at El Paso, Tex.....	—	(1938-)o/
Diversions from the Rio Grande into Acquia Madre (Mexican Canal) near Juarez, Chih., Mex.....	—	(1938-)o/
Diversions from the Rio Grande in the El Paso Valley, Tex.....	—	(1938-)o/
Tornillo drain at mouth at Alamo Alto, Tex.....	—	1931-38.
Tornillo Canal at wasteway near Alamo Alto, Tex.....	—	(1930-31)m/; 1931-38.
Hudspeth Canal at head near Alamo Alto, Tex.....	—	(1930-31)m/; 1931-38.
Rio Conchos at Cuchillo Parado, Chih., Mex.....	—	(1945-)o/
Rio Conchos near Ojinaga, Chih., Mex.....	o/ 22,600	(1924-)o/**
Diversions from Rio Grande between Upper and Lower Presidio Stations, Tex.....	—	(1932-33)o/; 1934**o/.
Alamito Creek near Presidio, Tex.....	o/ 1,504	(1932-)o/
Terlingua Creek near Terlingua, Tex.....	o/ 1,070	(1932-)o/
Lozier Creek near Langtry, Tex.....	o/ 1,806	(1932-35)o/.
Pecos River near Cowles, N. Mex.....	—	1910-14; (1915-19)m/.
Pecos River (at Irvin's Ranch near Cowles) near Pecos, N. Mex.....	189	(1919-24; 1924-25**; 1926-30)m/; 1930-
Pecos River near San Jose, N. Mex.....	539	1939-40.
Pecos River near Anton Chico, N. Mex.....	1,050	1910; 1911*; 1912-14; (1915-24; 1924-25**; 1926-30)m/.

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o/ In International Boundary Commission Water Bulletins.

Note.— Figures of drainage area shown for stations in the Pecos River Basin represent the contributing area.

<u>Rio Grande tributaries—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
Pecos River at Santa Rosa, N. Mex.....	2,650	1903-05*; 1906; 1910-14; (1915-24; 1924-25**; 1926-30)m/; 1930-
Pecos River near Puerto de Luna, N. Mex.....	3,970	1938-
Alamogordo Reservoir near (Guadalupe) Fort Sumner, N. Mex.....	4,390	1939-**
Pecos River (near Guadalupe) below Alamogordo Dam, N. Mex.....	4,390	1912-14; (1915-24; 1924-25**; 1926-30)m/; 1930-
Pecos River near Fort Sumner, N. Mex.....	—	1904-10; 1912-13; (1921- 23**)m/.
Pecos River near Acme, N. Mex.....	11,380	(1921-23**)m/; 1937-
Pecos River near Roswell, N. Mex.....	—	1903-05*; 1906.
Pecos River near Lake Arthur, N. Mex.....	14,760	1938-
Pecos River near (Dayton) Artesia, N. Mex.....	15,300	1905-25; (1925**; 1926-31)m/; 1931-
Lake McMillan at Lakewood, N. Mex.....	16,990	1907*; 1939-**
Pecos River below McMillan Dam (near Lakewood), N. Mex.....	16,990	1906-09; 1910-11*; 1939-40; 1946-
Pecos River below Major Johnson Springs near Carlsbad, N. Mex.....	—	1947-
Pecos River at dam site 3 near Carlsbad, N. Mex.....	17,620	1939-40; 1944-
Lake Avalon near Carlsbad, N. Mex.....	18,070	1939-**
Pecos River (at Avalon) below Avalon Dam, near Carlsbad, N. Mex.....	18,070	1906-07; 1940.
Pecos River at Carlsbad, N. Mex.....	18,100	1903-06; 1907-08*; 1914-25; (1925-28)m/; 1928-30; (1930-31)m/; 1931-
Pecos River near Malaga, N. Mex.....	19,190	(1920-25); (1925-31)m/; 1931-
Pecos River at Pierco Canyon crossing near Malaga, N. Mex.....	19,260	1938-41.
Pecos River at Red Bluff, N. Mex.....	19,540	1937-
Pecos River near Angeles, Tex.....	20,540	1914-37.
Red Bluff Reservoir near Orla, Tex.....	20,720	1937-
Pecos River near Orla, Tex.....	21,300	1937-
Pecos River near Porterville, Tex.....	—	1922-26.
Pecos River above Barstow (above Barstow Canal), Tex.....	—	1916-21.
Pecos River above Barstow (below Barstow Canal), Tex.....	—	1922-26.
Pecos River near Pecos, Tex.....	—	1898-1907.
Pecos River at Pecos, Tex.....	22,100	1939-
Pecos River near Barstow, Tex.....	—	1914-15.
Pecos River below Barstow, Tex.....	25,980	1939-40.
Pecos River near Grandfalls, Tex.....	—	1915-26.
Pecos River below Grandfalls, Tex.....	27,820	1939-
Pecos River near Buena Vista, Tex.....	—	1921-26.
Pecos River near Girvin, Tex.....	29,560	1939-
Pecos River near Sheffield, Tex.....	31,660	1921-25; 1939-
Pecos River near Comstock (Moorhead), Tex.....	o/35,293	1898*; 1900-31; (1931-)o/ 1918.
Pecos River seepage investigation.....	—	(1915-24; 1924-25**; 1926-30)m/; 1930-
Gallinas River near Montezuma, N. Mex.....	84	1903*; 1904-14; (1915-24; 1924-25**; 1926-30)m/; 1930-
Gallinas River at Montezuma, N. Mex.....	87	1911-14; (1915-20)m/.
South Fork Gallinas River near El Porvenir, N. Mex.....	25	1911*.
Rio Ruidoso (head of Rio Hondo) near Ruidoso, N. Mex.....	—	1910-11*.
Rio Ruidoso near Glencoe, N. Mex.....	—	1930-
Rio Ruidoso at Hondo, N. Mex.....	307	1930-31.
Rio Hondo at Hondo, N. Mex.....	—	(1908-09)m/; 1939-
Rio Hondo at Diamond A Ranch near Roswell, N. Mex.....	960	1903-05*; 1906.
Rio Hondo at Hondo Reservoir, N. Mex.....	—	1903-05*; 1906.
Rio Hondo at Roswell, N. Mex.....	—	(1908-09**)m/; 1930-31.
Rio Bonito at Angus, N. Mex.....	—	(1908-09**)m/; 1930-31.
Rio Bonito (near Fort Stanton) near Lincoln, N. Mex.....	—	1930-
Rio Bonito at Hondo, N. Mex.....	306	1905.
Taylor-Moore ditch near Roswell, N. Mex.....	—	1906-09*.
Hondo Reservoir inlet near Roswell, N. Mex.....	—	1906.
Hondo Reservoir scour gate near Roswell, N. Mex.....	—	1939-
Rio Felix at old highway bridge, near Hagerman, N. Mex.....	932	

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<u>Rio Grande tributaries--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
<u>Pecos River tributaries--Continued</u>		
Rio Felix near Hagerman, N. Mex.....	—	1932-39
Cottonwood Creek near Lake Arthur, N. Mex.....	1,922	1932-
Penasco River at Elk, N. Mex.....	—	1910-11*.
Penasco River (at Cleve's Ranch) near Elk, N. Mex.....	—	1911*.
Penasco River (at Y.O. Crossing) near Hope, N. Mex.....	730	(1921-24; 1924-25**; 1926-29)m/.
Penasco River near Dayton, N. Mex.....	1,300	1905-06; 1906-08*.
Black River above Malaga, N. Mex.....	343	1940; 1946-
Black River (near) at Malaga, N. Mex.....	360	1914-15; 1939-40
Delaware River near Malaga, N. Mex.....	—	1912-13.
Delaware River near Red Bluff, N. Mex.....	967	1937-
Delaware River near Angeles, Tex.....	—	1914-15.
Seepage below east side Red Bluff Dam near Orla, Tex.....	—	1939-40.
Seepage below west side Red Bluff Dam near Orla, Tex.....	—	1939-40.
Salt (Screwbean) Draw near Orla, Tex.....	455	1939-40; 1943-
John Camp pump near Orla, Tex.....	—	1940.
Joe B. Neel pump near Riverton, Tex.....	—	1940.
M. R. Estes pump near Mentone, Tex.....	—	1940.
Reeves County Water Improvement District No. 2 Canal near Mentone (Farmers Independent Canal near Porterville), Tex.....	—	1922-25; 1939-
Ward County Water Improvement District No. 3 Canal near Barstow, Tex.....	—	1939-
Cedarvale Canal near Barstow, Tex.....	—	1922-25.
Margueretta flume near Pecos, Tex.....	—	1898; 1900-07.
West Valley ditch near Pecos, Tex.....	—	1904.
Boxley Canal near Barstow, Tex.....	—	1923-25.
Ward County Irrigation District No. 1 Canal (Barstow Canal), near Barstow, Tex.....	—	1922-25; 1939-
Drainage into Soda Lake near Barstow, Tex.....	—	1939-40.
Reeves County Water Improvement District No. 2 Canal Wasteway near Pecos, Tex.....	—	1939-40.
John T. Yarbrough pump near Pecos, Tex.....	—	1940.
Ward County Irrigation District No. 1 lateral No. 1 wasteway near Pecos, Tex.....	—	1939-40.
Barstow drainage ditch No. 1 near Barstow, Tex.....	—	1939-40.
Rock Quarry Draw near Barstow, Tex.....	—	1939-40.
Barstow drainage ditch below confluence of ditches 2, 3, and 4 near Barstow, Tex.....	—	1939-40.
Ward County Irrigation District No. 1 Canal wasteway below Barstow, Tex.....	—	1940.
Madera Canyon (head of Toyah Creek) near Toyahvale, Tex.....	54	1932-
Madera Canyon seepage investigation.....	—	1932-33.
Toyah Creek near Pecos, Tex.....	1,024	1939-40; 1943-45.
Toyah Creek below Toyah Lake near Pecos, Tex.....	3,709	1939-
Toyah Creek seepage investigation.....	—	1932-33.
Little Aguja Canyon seepage investigation.....	—	1932.
Big Aguja Canyon seepage investigation.....	—	1932.
Phantom Lake Spring near Toyahvale, Tex.....	—	1931-33; 1942-///
Giffin Springs at Toyahvale, Tex.....	—	1931-33; 1942-///
San Solomon Springs at Toyahvale, Tex.....	—	1931-33; 1941-
Main Canal of Reeves County Water Improvement District No. 1 seepage investigation.....	—	1931; 1933.
Lateral Canals of Reeves County Water Improvement District No. 1 seepage investigation.....	—	1931.
Seepage investigations in Reeves County Water Improvement District No. 1, Tex.....	—	1935.
Seepage investigations on laterals in Toyah Creek Basin, Reeves County, Tex.....	—	1940.
Reservoir Outlet Canal of Reeves County Water Improvement District No. 1 seepage investigation.....	—	1932-33.
West Sandia Spring at Balmorhea, Tex.....	—	1931-33; 1942-///
West Sandia Creek seepage investigation.....	—	1932.

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<u>Rio Grande tributaries--Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
<u>Pecos River tributaries--Continued</u>		
<u>Toyah Creek tributaries--Continued</u>		
East Sandia Spring at Balmorhea, Tex.....	—	1931-33; 1942- <del>44</del>
Cherry Canyon seepage investigation.....	—	1932.
Salt Draw near Pecos, Tex.....	1,882	1939-40; 1943-45.
Limpia Creek (head of Barrilla Creek) near Fort Davis, Tex.....	303	1925-32.
Limpia Creek seepage investigation.....	—	1932-33.
Barrilla Creek near Saragosa, Tex.....	612	1924-26; 1932.
Barrilla Creek near Pecos, Tex.....	733	1940.
Grandfalls-Big Valley Canal near Barstow, Tex.....	—	1922-25; 1939-
E. W. Fate pump near Grandfalls, Tex.....	—	1940.
Pecos County Water Improvement District No. 2 upper diversion Canal (Imperial Highline Canal), near Grandfalls, Tex.....	—	1922-25; 1939-
Pecos County Water Improvement District No. 2 Canal near Imperial, Tex.....	—	1940-
Ward County Water Improvement District No. 2 Canal near Grandfalls, Tex.....	—	1939-
Pecos County Water Improvement District No. 2 lower diversion Canal (Imperial Lowline Canal), near Grandfalls, Tex.....	—	1922-25; 1939-40.
Pecos County Water Improvement District No. 3 Canal near Grandfalls, Tex.....	—	1939-40.
Pecos County Water Improvement District No. 3 Canal near Imperial, Tex.....	—	1940-
Pecos County Water Improvement District No. 3 Canal below Buena Vista, Tex.....	—	1940.
Ward County Water Improvement District No. 2 lateral No. 2 wasteway below Grandfalls, Tex.....	—	1939-40.
Ward County Water Improvement District No. 2 Canal wasteway below Grandfalls, Tex.....	—	1939-40.
Pecos County Water Improvement District No. 3 Canal wasteway below Buena Vista, Tex.....	—	1940.
Pecos County Water Improvement District No. 2 west lateral wasteway near Buena Vista, Tex.....	—	1940.
Pecos County Water Improvement District No. 2 east lateral wasteway below Buena Vista, Tex.....	—	1940.
Drainage from Powell Lake below Buena Vista, Tex.....	—	1940.
Comanche Springs at Fort Stockton, Tex.....	—	1941-
Leon Springs and flowing wells, 8 miles west of Fort Stockton, Tex.....	—	1947- <del>48</del>
San Pedro Springs 7 miles northeast of Fort Stockton, Tex.....	—	1947- <del>48</del>
Seepage investigations on canals in Comanche Creek basin, Pecos County, Tex.....	—	1939.
Goodenough Springs near Comstock, Tex.....	o/ 1.0	1929-31; (1924-29) o/; (1931-) o/
Devils River near Juno, Tex.....	2,733	1925-
Devils River near Del Rio, Tex.....	o/ 4,185	1923-31; (1931-) o/
Devils River at Devils River, Tex.....	—	1900-1914.
Devils River seepage investigation.....	—	1925; 1928-29.
Cienegas Creek near Del Rio, Tex.....	o/ 18	(1931-35) o/.
Arroya Las Vacas near Villa Acuna, Coah., Mex.....	o/ 146	(1938-) o/.
San Felipe Creek near Del Rio, Tex.....	o/ 62	(1931-) o/.
Sycamore Creek near Del Rio, Tex.....	o/ 515	(1932-35) o/.
Pinto Creek near Del Rio, Tex.....	o/ 229	1928-31; (1931-) o/
Rio San Diego at Jimenez, Coah., Mex.....	o/ 931	(1932-) o/.
Las Moras Creek near Eagle Pass, Tex.....	o/ 162	(1932-35) o/.
Las Moras Springs at Brackettville, Tex.....	—	1938-*
Rio San Rodrigo near El Moral (Paso De Las Mulas), Coah., Mex.....	o/ 586	(1932-) o/.
Diversions from the Rio Grande into Maverick Canal extension below the power plant near Eagle Pass, Tex.....	—	(1939-) o/.
Rio Escondido at Villa Fuente, Coah., Mex.....	o/ 1,130	(1932-) o/.
Los Lores Creek near San Ignacio, Tex.....	o/ 606	(1932-35) o/.
Rio Salado near Guerrero, Tamaulipas, Mex.....	o/ 21,528	1900-1913; (1924-) o/

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~~44~~ Discharge measurements only at regular intervals.

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<u>Rio Grande tributaries—Continued</u>	<u>Drainage Area (square miles)</u>	<u>Period of Record</u>
El Tigre Arroyo near Zapata, Tex.....	o/ 261	(1932-36) o/.
Rio Alamo at Cd. Mier "El Paso del Contaro", Tam., Mex.....	o/ 1,675	(1924-) o/
Rio San Juan near Santa Rosalia Ranch, Tam., Mex.....	o/ 13,000	1902-14; (1924-) o/
Rio San Juan at La Quemado, Tam., Mex.....	—	1900-02.
Rio San Juan below Azucar Dam, Tam., Mex.....	o/ 12,473	(1943-45) o/.
Rio San Juan above Rio Grande City, Tex.....	—	(1946-) o/
Los Olmos Creek near Rio Grande City, Tex.....	o/ 535	(1932-36) o/.
Rio San Juan below Rio Grande City, Tex.....	—	(1946-) o/
Goodwin Canal above Penitas, Tex.....	—	1928-31.
Edinburg Canal at Penitas, Tex.....	—	1928-31.
Mission Canal near Mission, Tex.....	—	1928-31.
Granjeno Canal near Mission, Tex.....	—	1928-31.
McAllen Canal near Hidalgo, Tex.....	—	1928-31.
Rio Bravo Canal near Hidalgo, Tex.....	—	1928-31.
South Floodway south of McAllen, Tex.....	—	(1932-) o/
North Floodway south of McAllen, Tex.....	—	(1932-) o/
North Floodway near Sebastian, Tex.....	—	(1940-) o/
Diversions from Rio Grande into the Retamal Canal near Rio Bravo, Tam., Mex.....	—	(1939-) o/
Rancho Viejo Floodway near Brownsville, Tex.....	—	(1936-) o/
Diversions from Rio Grande on United States side below Rio Grande City, Tex.....	—	(1938-) o/

## INTERIOR BASINS IN NEW MEXICO

Mimbres River Basin

Mimbres River near Mimbres, N. Mex.....	183	(1921-24; 1924-25**; 1926-30)m/; 1930-
Mimbres River near Faywood, N. Mex.....	485	1908-10; 1911*; 1912-14; (1915-24; 1924-25**; 1926-30)m/; 1930-
Bear Canyon near Mimbres, N. Mex.....	—	1937-
Lampbright Draw near Santa Rita, N. Mex.....	—	1912-14; (1915-22)m/.
Whitewater (Draw) Creek at Hurley, N. Mex.....	35	1913-14*.
Cameron Creek at Fort Bayard, N. Mex.....	—	1907-10; 1911-13*.
Cameron Creek near Hurley, N. Mex.....	46	1913-14*.
Stevens Creek near Fort Bayard, N. Mex.....	—	1907-14*.
Rio de Arena near Hurley, N. Mex.....	16	1913-14*.

Tularosa Valley Basin

Rio Tularosa at Mescalero, N. Mex.....	—	1910-11*.
Rio Tularosa near Bent, N. Mex.....	—	1911*.
Rio Tularosa near Tularosa, N. Mex.....	—	1912-14; (1916-17)m/; 1931-
Rio La Luz on Cogan's Ranch, near La Luz, N. Mex.....	—	(1912**)m/.
Rio La Luz near La Luz, N. Mex.....	30	1911-12*.
Rio La Luz at La Luz, N. Mex.....	—	1910-13*; 1931-32.
Alamogordo-La Luz ditch at La Luz, N. Mex.....	—	1934-41; 1941-*
Rio Fresno near Mountain Park, N. Mex.....	44	1911-12*; (1912**)m/.
Alamo Creek at Wood Ranch near Alamogordo, N. Mex.....	—	1931-37.
Alamogordo Water Supply (at intake) near Alamogordo, N. Mex.....	—	1932-41; 1941-*

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## ALPHABETICAL LIST OF STREAMS AND RESERVOIRS

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Boxley Canal, Tex.....	14	Crestone Creek, South, Colo.....	8
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Brays Bayou, Tex.....	3	Culebra River, Colo.....	9
Brasos River, N. Mex.....	10	Cypress Creek, La.-Tex.....	2,3
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Brasos River, Double Mountain Fork, Tex..	3	Deep Creek, Tex.....	5
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