

TEXAS WATER COMMISSION

Joe D. Carter, Chairman  
O. F. Dent, Commissioner  
H. A. Beckwith, Commissioner

Bulletin 6410

SUSPENDED-SEDIMENT LOAD OF

TEXAS STREAMS

Compilation Report

October 1959-September 1961

By

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S U S P E N D E D - S E D I M E N T   L O A D   O F  
T E X A S   S T R E A M S

Compilation Report

October 1959-September 1961

INTRODUCTION

Bulletin 6410 covers the 1960 and 1961 water years, and is a supplement to Texas Board of Water Engineers Bulletin 6108, which presented the results of suspended-sediment-load measurements made at permanent observation points from the beginning of record through the 1959 water year. (A water year extends from October 1 through the following September 30, and is identified by the year in which it ends.) No short-period reconnaissance-type determinations are compiled in Bulletin 6108 or Bulletin 6410.

STATUS OF SUSPENDED-SEDIMENT SAMPLING STATIONS

During the period covered by this report, the Texas Water Commission operated 25 suspended-sediment sampling stations, and the International Boundary and Water Commission operated 13 stations. No stations were established or discontinued by either agency during this period.

Records from one station operated by the U. S. Geological Survey are included in this report.

COOPERATION

The following agencies cooperated with the Texas Water Commission in the operation of, or furnished data for, suspended-sediment sampling stations included in this report:

Lower Colorado River Authority, Austin  
Brazos River Authority, Waco  
Chambers-Liberty Counties Navigation District, Anahuac  
City of Corpus Christi  
U. S. Geological Survey, Surface Water Branch, Austin

The International Boundary and Water Commission, United States and Mexico, furnished records for 13 stations in the Rio Grande Basin.

The U. S. Geological Survey, Quality of Water Branch, Austin, furnished records for one station in the Colorado River Basin.

EXPLANATION OF DATA

Suspended-sediment sampling stations operated by the Texas Water Commission at or near streamflow measuring stations use streamflow records collected by the U. S. Geological Survey in the determination of estimated sediment loads. Those suspended-sediment sampling stations operated by the Texas Water Commission at Possum Kingdom Reservoir, Buchanan Reservoir, and Inks Lake, where samples are collected from releases, use computed-release records furnished by the reservoir operators in the determination of estimated suspended-sediment loads.

Monthly streamflow quantities are rounded to four significant figures. Summary values are also rounded, and therefore are not the exact sum of the monthly values. No summary values are shown for columns having missing data. Zero values were not printed in the tabulations, but are indicated where blanks appear in a column having a summary value.

Samples are collected in 8-ounce narrow-neck bottles at a position approximately 1 foot below the water surface. The percentage of suspended sediment by weight obtained from the sample is multiplied by the factor 1.102 to obtain the mean percentage of the suspended sediment in the vertical. Laboratory determinations were equated to the corresponding streamflow in determining the total suspended-sediment load.

The Texas Water Commission assumes that the average weight of 1 cubic foot of streamflow is 62.5 pounds and 1 cubic foot of deposited sediment weights 70 pounds. It therefore follows that:

$$\begin{aligned} \text{One acre-foot of streamflow} &= 1,361.25 \text{ tons} \\ \text{One acre-foot of sediment} &= 1,524.60 \text{ tons} \end{aligned}$$

No attempt has been made to estimate or compute that sediment which may be moved by a flowing stream along its bottom and commonly referred to as "bed load."

Sediment and streamflow records of the Pecos River and the Rio Grande were collected by the International Boundary and Water Commission, United States and Mexico. A sediment weight of 66.7 pounds per cubic foot, or 1,452 tons per acre-foot, was used in determining suspended-sediment loads in the Rio Grande Basin. The three methods of sample collection used are explained in the Boundary Commission's annual water bulletin, "Flow of the Rio Grande and Related Data."

The U. S. Geological Survey assumes a water density of 62.4 pounds per cubic foot when suspended-sediment samples contain 28,000 parts per million sediment or less. When higher concentrations are encountered, a sliding scale is used. Total suspended-sediment load is reported in tons.

Suspended-sediment samples were collected at the station "Colorado River at Columbus" by the depth integration method using a US D-43 sampler.

RECORDS OF SUSPENDED-SEDIMENT LOADS FROM SAMPLING STATIONS

OPERATED BY

TEXAS WATER COMMISSION,

1960 AND 1961 WATER YEARS

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5800 S. UNIVERSITY AVENUE  
CHICAGO, ILLINOIS 60637



SABINE RIVER BASIN  
SABINE RIVER AT LOGANSPORT

Net Drainage Area: 4,839 square miles (revised).

Location: U. S. Highway 84 bridge at Logansport, Louisiana. Flow records were obtained from stream gaging station "Sabine River at Logansport, Louisiana," located 4600 feet upstream from sampling point.

Records Available: December 1, 1932 to December 27, 1933; September 1, 1935 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	132,400	13,025	9	0.007
NOVEMBER	66,870	3,550	2	0.004
DECEMBER	250,200	13,537	9	0.004
JANUARY	633,500	40,410	27	0.005
FEBRUARY	440,300	32,071	21	0.005
MARCH	484,300	33,654	22	0.005
APRIL	97,620	4,722	3	0.004
MAY	88,730	6,789	4	0.006
JUNE	47,930	11,813	8	0.018
JULY	75,020	4,538	3	0.004
AUGUST	21,370	1,439	1	0.005
SEPTEMBER	31,110	1,737	1	0.004
SUMMARY	2,369,350	167,285	110	0.005

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	53,540	17,511	11	0.024
NOVEMBER	92,100	22,547	15	0.018
DECEMBER	760,100	30,658	20	0.003
JANUARY	649,900	432,731	284	0.049
FEBRUARY	403,400	121,564	80	0.022
MARCH	521,000	26,709	18	0.004
APRIL	387,200			
MAY	60,530	7,757	5	0.009
JUNE	177,600	22,549	15	0.009
JULY	204,200	16,693	11	0.006
AUGUST	35,140			
SEPTEMBER	75,450	9,410	6	0.009
SUMMARY				

NECHES RIVER BASIN  
NECHES RIVER NEAR ROCKLAND

Net Drainage Area: 3,637 square miles (revised).

Location: U. S. Highway 69 bridge between Woodville and Lufkin. Flow records were obtained from stream gaging station "Neches River near Rockland," located 2,200 feet downstream from sampling point.

Records Available: August 8, 1930 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	30,350	2,933	2	0.007
NOVEMBER	57,970	3,031	2	0.004
DECEMBER	140,200	22,259	15	0.012
JANUARY	274,100	18,384	12	0.005
FEBRUARY	288,700	17,678	12	0.004
MARCH	316,600	11,680	8	0.003
APRIL	91,810	5,394	4	0.004
MAY	78,240	5,220	3	0.005
JUNE	52,710	5,020	3	0.007
JULY	50,090	3,102	2	0.005
AUGUST	27,530	1,766	1	0.005
SEPTEMBER	13,020	404	0	0.002
SUMMARY	1,421,520	96,871	64	0.005

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	33,100	2,446	2	0.005
NOVEMBER	87,210	10,991	7	0.009
DECEMBER	538,400	40,182	26	0.005
JANUARY	757,100	43,118	28	0.004
FEBRUARY	400,200	16,345	11	0.003
MARCH	438,500	18,585	12	0.003
APRIL	320,800	15,740	10	0.004
MAY	60,970	6,042	4	0.007
JUNE	49,730	4,449	3	0.007
JULY	127,200	14,339	9	0.008
AUGUST	23,670	2,196	1	0.007
SEPTEMBER	84,680	18,549	12	0.016
SUMMARY	2,921,560	192,982	125	0.005

NECHES RIVER BASIN  
ANGELINA RIVER NEAR ZAVALLA

Net Drainage Area: 2,892 square miles (revised).

Location: State Highway 147 bridge between Broaddus and Zavalla. Flow records were obtained from stream gaging station "Angelina River near Zavalla," at the same location.

Records Available: September 1, 1945 to May 31, 1952; January 1, 1953 to May 31, 1961

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	24,060	2,897	2	0.009
NOVEMBER	55,590	1,407	1	0.002
DECEMBER	144,200	2,894	2	0.001
JANUARY	225,100	11,480	8	0.004
FEBRUARY	214,500	9,004	6	0.003
MARCH	322,300	19,046	12	0.004
APRIL	92,600	5,752	4	0.005
MAY	68,150	3,451	2	0.004
JUNE	42,520	2,139	1	0.004
JULY	35,770	2,703	2	0.006
AUGUST	20,010	1,377	1	0.005
SEPTEMBER	19,800	949	1	0.004
SUMMARY	1,264,600	63,099	42	0.004

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	46,070	1,372	1	0.002
NOVEMBER	107,500	1,804	1	0.001
DECEMBER	596,000	13,821	9	0.002
JANUARY	603,100	11,301	7	0.001
FEBRUARY	332,500	5,957	4	0.001
MARCH	447,300	21,587	14	0.004
APRIL	367,400	17,736	12	0.004
MAY	94,520	6,858	4	0.005
JUNE	61,510			
JULY	112,200			
AUGUST	24,460			
SEPTEMBER	83,220			
SUMMARY				



TRINITY RIVER BASIN  
TRINITY RIVER NEAR ROSSER

Net Drainage Area: 8,146 square miles (revised).

Location: State Highway 34 bridge between Rosser and Ennis. Flow records were obtained from stream gaging station "Trinity River near Rosser," at the same location.

Records Available: November 22, 1938 to June 27, 1940; March 1, 1953 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	321,100	202,412	133	0.039
NOVEMBER	54,930	27,799	18	0.037
DECEMBER	190,200	33,577	22	0.013
JANUARY	431,400	42,237	28	0.007
FEBRUARY	183,900	23,719	16	0.009
MARCH	85,650	7,011	5	0.006
APRIL	41,290	13,840	9	0.025
MAY	80,860	32,291	21	0.029
JUNE	24,260	6,113	4	0.019
JULY	32,020	7,730	5	0.018
AUGUST	37,200	21,556	14	0.043
SEPTEMBER	18,040	1,015	1	0.004
SUMMARY	1,560,850	419,300	276	0.020

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	24,030	7,836	5	0.024
NOVEMBER	15,850	296	0	0.001
DECEMBER	151,600	67,544	44	0.033
JANUARY	214,800	74,544	49	0.025
FEBRUARY	164,400	56,743	37	0.025
MARCH	182,100	89,132	58	0.036
APRIL	104,600	27,423	18	0.019
MAY	55,720	29,299	19	0.039
JUNE	128,900	101,306	66	0.058
JULY	49,910	19,865	13	0.029
AUGUST	24,780	3,623	2	0.011
SEPTEMBER	28,710	7,767	5	0.020
SUMMARY	1,145,400	485,378	316	0.031



TRINITY RIVER BASIN  
TRINITY RIVER AT ROMAYOR

Net Drainage Area: 17,186 square miles (revised).

Location: State Highway 105 bridge, 2 miles south of Romayor. Flow records were obtained from stream gaging station "Trinity River at Romayor," at the same location.

Records Available: August 10, 1936 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	575,800	408,172	268	0.052
NOVEMBER	240,200	92,480	61	0.028
DECEMBER	644,400	425,476	279	0.049
JANUARY	1,260,000	708,996	465	0.041
FEBRUARY	703,000	198,546	130	0.021
MARCH	462,900	45,772	30	0.007
APRIL	146,900	27,077	18	0.014
MAY	247,900	83,897	55	0.025
JUNE	240,900	104,213	68	0.032
JULY	122,900	47,919	31	0.029
AUGUST	98,280	25,652	17	0.019
SEPTEMBER	63,340	35,266	23	0.041
SUMMARY	4,806,520	2,203,466	1,445	0.034

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	158,700	124,117	81	0.057
NOVEMBER	500,100	342,262	224	0.050
DECEMBER	1,408,000	1,189,913	780	0.062
JANUARY	1,841,000	1,914,309	1,256	0.076
FEBRUARY	1,208,000	884,659	580	0.054
MARCH	682,300	358,721	235	0.039
APRIL	455,800	279,660	183	0.045
MAY	120,500	9,485	6	0.006
JUNE	406,800	352,679	231	0.064
JULY	379,100	309,388	203	0.060
AUGUST	66,850	5,044	3	0.006
SEPTEMBER	332,000	251,642	165	0.056
SUMMARY	7,559,150	6,021,879	3,947	0.059

SAN JACINTO RIVER BASIN

WEST FORK SAN JACINTO RIVER NEAR CONROE

Net Drainage Area: 809 square miles (revised).

Location: State Highway 75 bridge, 4 1/2 miles south of Conroe. Flow records were obtained from stream gaging station "West Fork San Jacinto River near Conroe," at the same location.

Records Available: December 1, 1952 to May 31, 1960; erratic record thereafter to date.

Note: This station replaced the Humble station which was discontinued April 30, 1952.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	9,670	704	0	0.005
NOVEMBER	16,240	763	1	0.003
DECEMBER	45,580	3,300	2	0.005
JANUARY	42,260	4,458	3	0.008
FEBRUARY	66,570	3,993	3	0.004
MARCH	15,060	843	1	0.004
APRIL	9,940	406	0	0.003
MAY	30,070	1,024	1	0.003
JUNE	121,700			
JULY	60,100			
AUGUST	39,390			
SEPTEMBER	7,580	686	0	0.007

SUMMARY

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	76,730			
NOVEMBER	140,400	4,894	3	0.003
DECEMBER	115,900			
JANUARY	157,000			
FEBRUARY	144,900			
MARCH	16,530			
APRIL	20,130			
MAY	4,630			
JUNE	18,590	3,098	2	0.012
JULY	52,340	10,661	7	0.015
AUGUST	3,240			
SEPTEMBER	92,810			

SUMMARY

SAN JACINTO RIVER BASIN

EAST FORK SAN JACINTO RIVER NEAR CLEVELAND

Net Drainage Area: 325 square miles (revised).

Location: State Highway 105 bridge about one mile southwest of Cleveland. Flow records were obtained from stream gaging station "East Fork San Jacinto River near Cleveland," at the same location.

Records Available: December 1, 1952 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	3,920	498	0	0.009
NOVEMBER	4,670	277	0	0.004
DECEMBER	12,070	954	1	0.006
JANUARY	22,070	3,464	2	0.012
FEBRUARY	31,820	6,567	4	0.015
MARCH	7,370	611	0	0.006
APRIL	3,950	455	0	0.008
MAY	7,520	783	1	0.008
JUNE	33,440	4,747	3	0.010
JULY	11,350	1,808	1	0.012
AUGUST	45,700	472	0	0.008
SEPTEMBER	2,730	210	0	0.006
SUMMARY	145,480	20,846	12	0.011

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	28,240	5,626	4	0.015
NOVEMBER	52,780	6,281	4	0.009
DECEMBER	46,060	6,069	4	0.010
JANUARY	61,930	6,064	4	0.007
FEBRUARY	63,470	7,291	5	0.008
MARCH	9,490	372	0	0.003
APRIL	7,490	764	1	0.007
MAY	2,000	59	0	0.002
JUNE	9,200	1,173	1	0.009
JULY	14,640	1,811	1	0.009
AUGUST	2,340	132	0	0.004
SEPTEMBER	53,210	6,044	4	0.008
SUMMARY	350,850	41,686	28	0.009



BRAZOS RIVER BASIN

BRAZOS RIVER NEAR SOUTH BEND

Net Drainage Area: 12,360 square miles (revised).

Location: State Highway 67 bridge 2 miles northeast of South Bend. Flow records were obtained from stream gaging station "Brazos River near South Bend," at the same location.

Records Available: January 15, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	176,500	1,643,242	1,078	0.684
NOVEMBER	6,840	2,117	1	0.023
DECEMBER	19,060			
JANUARY	18,110			
FEBRUARY	14,360	19,282	13	0.099
MARCH	5,150	391	0	0.006
APRIL	10,300	1,369	1	0.010
MAY	2,760	200	0	0.005
JUNE	14,640	231,148	152	1.160
JULY	186,300	1,893,673	1,242	0.747
AUGUST	13,330	27,036	18	0.149
SEPTEMBER	1,340	124	0	0.007

SUMMARY

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	284,500	2,305,870	1,512	0.595
NOVEMBER	24,100	6,906	5	0.021
DECEMBER	15,590	1,682	1	0.008
JANUARY	30,140	70,734	46	0.172
FEBRUARY	23,650	2,344	2	0.007
MARCH	13,170	7,266	5	0.041
APRIL	7,220	1,069	1	0.011
MAY	31,040	227,240	149	0.538
JUNE	276,700	2,753,073	1,806	0.731
JULY	270,900	3,137,587	2,058	0.851
AUGUST	20,120	12,557	8	0.046
SEPTEMBER	73,190	140,203	92	0.141
SUMMARY	1,070,320	8,666,531	5,685	0.595

BRAZOS RIVER BASIN

POSSUM KINGDOM RESERVOIR NEAR GRAFORD

Net Drainage Area: 13,310 square miles

Location: Samples taken in tailrace and over spillway. Flow records were obtained from computed releases as determined by Brazos River Authority.

Records Available: January 15, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	165,800			
NOVEMBER	15,360	0	0	0.000
DECEMBER	15,980	12,983	9	0.060
JANUARY	23,790	1,448	1	0.004
FEBRUARY	39,820	684	0	0.001
MARCH	7,020	11	0	0.000
APRIL	14,480	152	0	0.001
MAY	20,160	44	0	0.000
JUNE	9,490	0	0	0.000
JULY	119,200	4,813	3	0.003
AUGUST	23,620	216	0	0.001
SEPTEMBER	20,510	232	0	0.001
SUMMARY				

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	179,655	2,511	2	0.001
NOVEMBER	52,870	546	0	0.001
DECEMBER	44,795	99	0	0.000
JANUARY	28,575	187	0	0.000
FEBRUARY	18,665	259	0	0.001
MARCH	36,810	184	0	0.000
APRIL	37,810	77	0	0.000
MAY	10,530	87	0	0.001
JUNE	167,755	711	0	0.000
JULY	224,340	82	0	0.000
AUGUST	73,320	1,584	1	0.002
SEPTEMBER	53,185	0	0	0.000
SUMMARY	928,330	6,327	3	0.001

BRAZOS RIVER BASIN  
LEON RIVER AT GATESVILLE

Net Drainage Area: 2,365 square miles (revised).

Location: U. S. Highway 84 bridge 1 mile west of Gatesville. Flow records were obtained from stream gaging station "Leon River at Gatesville," at the same location.

Records Available: March 1, 1953 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	249,300			
NOVEMBER	14,700	6,207	4	0.031
DECEMBER	18,750	5,112	3	0.020
JANUARY	76,610	46,349	30	0.044
FEBRUARY	31,550	3,887	3	0.009
MARCH	16,910	312	0	0.001
APRIL	9,150	355	0	0.003
MAY	9,250	1,784	1	0.014
JUNE	4,060	420	0	0.008
JULY	2,260	164	0	0.005
AUGUST	1,410	630	0	0.033
SEPTEMBER	494	38	0	0.006

SUMMARY

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	12,470	41,536	27	0.245
NOVEMBER	1,220	72	0	0.004
DECEMBER	27,370	16,075	11	0.043
JANUARY	99,870	95,029	62	0.070
FEBRUARY	97,520	98,543	65	0.074
MARCH	31,590	22,655	15	0.053
APRIL	10,870	532	0	0.004
MAY	9,190	3,672	2	0.029
JUNE	53,430	82,385	54	0.113
JULY	50,440	68,966	45	0.100
AUGUST	4,510	602	0	0.010
SEPTEMBER	2,480	359	0	0.011

SUMMARY                      400,960                      430,426                      281                      0.079



BRAZOS RIVER BASIN

NAVASOTA RIVER NEAR EASTERLY

Net Drainage Area: 940 square miles (revised).

Location: U. S. Highway 79 bridge 7 miles northeast of Easterly. Flow records were obtained from stream gaging station "Navasota River near Easterly" at the same location.

Records Available: January 1, 1942 to date except for missing periods, February through September 1954; April through August 1958; June through August 1959.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	37,200	15,020	10	0.030
NOVEMBER	24,300	29,729	19	0.090
DECEMBER	71,390	4,876	3	0.005
JANUARY	62,360	36,076	24	0.042
FEBRUARY	19,990	8,126	5	0.030
MARCH	22,380	7,396	5	0.024
APRIL	7,300	3,156	2	0.032
MAY	17,650	5,039	3	0.021
JUNE	11,520	1,384	1	0.009
JULY	2,000	234	0	0.009
AUGUST	814	189	0	0.017
SEPTEMBER	299	21	0	0.005
SUMMARY	277,203	111,246	72	0.029

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	13,600	3,592	2	0.019
NOVEMBER	22,880	6,676	4	0.021
DECEMBER	198,700	20,816	14	0.008
JANUARY	182,900	24,406	16	0.010
FEBRUARY	119,700	22,112	15	0.014
MARCH	23,670	6,917	5	0.021
APRIL	6,160	719	0	0.009
MAY	2,430	424	0	0.013
JUNE	106,700	16,901	11	0.012
JULY	29,130	9,492	6	0.024
AUGUST	1,330	217	0	0.012
SEPTEMBER	20,440	4,718	3	0.017
SUMMARY	727,640	116,990	76	0.012

BRAZOS RIVER BASIN

BRAZOS RIVER AT RICHMOND

Net Drainage Area: 34,780 square miles.

Location: U. S. Highway 59 bridge on northeast edge of Richmond Flow records were obtained from stream gaging station "Brazos River at Richmond," at the same location.

Records Available: June 11, 1924 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	1,455,000	6,264,864	4,109	0.316
NOVEMBER	599,500	1,070,316	702	0.131
DECEMBER	657,400	1,857,907	1,219	0.208
JANUARY	1,016,000	1,742,604	1,143	0.126
FEBRUARY	706,000	666,442	437	0.069
MARCH	389,300	105,878	69	0.020
APRIL	212,800	79,945	52	0.028
MAY	477,600	722,128	474	0.111
JUNE	416,500	1,095,367	718	0.193
JULY	329,100	194,765	127	0.043
AUGUST	110,800	21,505	14	0.014
SEPTEMBER	69,540	8,219	5	0.009
SUMMARY	6,439,540	13,829,440	9,069	0.158

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	468,500	1,751,816	1,149	0.275
NOVEMBER	1,058,000	2,901,975	1,903	0.201
DECEMBER	1,603,000	5,832,774	3,826	0.267
JANUARY	2,237,000	9,207,714	6,039	0.302
FEBRUARY	1,932,000	7,993,417	5,243	0.304
MARCH	867,400	1,154,736	757	0.098
APRIL	338,800	198,006	130	0.043
MAY	174,000	80,883	53	0.034
JUNE	926,400	4,360,314	2,860	0.346
JULY	985,200	2,334,680	1,531	0.174
AUGUST	330,500	182,825	120	0.041
SEPTEMBER	753,400	2,681,152	1,759	0.261
SUMMARY	11,674,200	38,680,292	25,370	0.243



COLORADO RIVER BASIN  
COLORADO RIVER NEAR SAN SABA

Net Drainage Area: 18,700 square miles.

Location: U. S. Highway 190 bridge 9.2 miles east of San Saba. Flow records were obtained from stream gaging station "Colorado River near San Saba," at the same location.

Records Available: September 11, 1930 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	519,500	998,378	655	0.141
NOVEMBER	33,430	1,110	1	0.002
DECEMBER	33,760	2,916	2	0.006
JANUARY	127,400	46,863	31	0.027
FEBRUARY	54,910	9,898	6	0.013
MARCH	26,750	623	0	0.002
APRIL	35,140	8,050	5	0.017
MAY	38,670	4,217	3	0.008
JUNE	11,280	696	0	0.005
JULY	10,420	1,707	1	0.012
AUGUST	9,100	1,043	1	0.008
SEPTEMBER	8,170	6,386	4	0.057
SUMMARY	908,930	1,081,887	709	0.087

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	76,150	209,671	138	0.202
NOVEMBER	15,660	1,555	1	0.007
DECEMBER	29,680	13,083	9	0.032
JANUARY	60,640	37,019	24	0.045
FEBRUARY	76,160	64,232	42	0.062
MARCH	29,250	2,261	1	0.006
APRIL	14,480	877	1	0.004
MAY	45,750	189,388	124	0.304
JUNE	258,900	586,293	385	0.166
JULY	110,600	292,080	192	0.194
AUGUST	17,610	2,479	2	0.010
SEPTEMBER	41,680	88,861	58	0.157
SUMMARY	776,560	1,487,799	977	0.141

COLORADO RIVER BASIN  
BUCHANAN RESERVOIR NEAR BURNET

Net Drainage Area: 19,350 square miles.

Location: Tailrace at Buchanan Dam, 10 miles west of Burnet. Flow records were obtained from computed releases as determined by Lower Colorado River Authority.

Records Available: October 1, 1947 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	309,100	13,458	9	0.003
NOVEMBER	61,560	1,193	1	0.001
DECEMBER	68,640	1,184	1	0.001
JANUARY	9,820	19	0	0.000
FEBRUARY	6,790	0	0	0.000
MARCH	65,050	778	1	0.001
APRIL	54,870	522	0	0.001
MAY	56,580	228	0	0.000
JUNE	93,940	977	1	0.001
JULY	57,480	1,419	1	0.002
AUGUST	46,640	912	1	0.001
SEPTEMBER	28,030	375	0	0.001
SUMMARY	939,100	21,065	15	0.002

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	0	0	0	0.000
NOVEMBER	0	49	0	0.000
DECEMBER	0	99	0	0.000
JANUARY	0	63	0	0.000
FEBRUARY	0	34	0	0.000
MARCH	0	265	0	0.000
APRIL	0	531	0	0.000
MAY	0	697	0	0.000
JUNE	0	2,529	2	0.000
JULY	0	2,233	1	0.000
AUGUST	0	1,266	1	0.000
SEPTEMBER	0	970	1	0.000
SUMMARY	0	8,736	5	0.000

COLORADO RIVER BASIN  
INKS LAKE NEAR BURNET

Net Drainage Area: 19,390 square miles.

Location: Tailrace at Inks Dam. Flow records were obtained from computed releases as determined by Lower Colorado River Authority.

Records Available: August 1, 1942 to November 31, 1951; July 1, 1955 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	389,900	8,149	5	0.002
NOVEMBER	61,450			
DECEMBER	69,790	1,035	1	0.001
JANUARY	98,960	749	0	0.001
FEBRUARY	94,530	522	0	0.000
MARCH	54,000	197	0	0.000
APRIL	69,880	146	0	0.000
MAY	56,320	163	0	0.000
JUNE	95,700	859	1	0.001
JULY	61,340	173	0	0.000
AUGUST	34,900	469	0	0.001
SEPTEMBER	22,690	178	0	0.001

SUMMARY

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	0	5	0	0.000
NOVEMBER	0	39	0	0.000
DECEMBER	0	0	0	0.000
JANUARY	0	0	0	0.000
FEBRUARY	0	0	0	0.000
MARCH	0	121	0	0.000
APRIL	0	238	0	0.000
MAY	0	700	0	0.000
JUNE	0	990	1	0.000
JULY	0	409	0	0.000
AUGUST	0	135	0	0.000
SEPTEMBER	0	322	0	0.000
SUMMARY	0	2,959	1	0.000

COLORADO RIVER BASIN

LLANO RIVER AT LLANO

Net Drainage Area: 4,233 square miles.

Location: 0.4 mile downstream from State Highway 16 bridge in downtown Llano.  
Flow records were obtained from stream gaging station "Llano River at Llano," at the same location.

Records Available: August 1, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	103,700	324,367	213	0.230
NOVEMBER	10,740	188	0	0.001
DECEMBER	15,220	307	0	0.001
JANUARY	27,480	375	0	0.001
FEBRUARY	28,740	2,368	2	0.006
MARCH	15,560	219	0	0.001
APRIL	17,820	1,693	1	0.007
MAY	8,740	372	0	0.003
JUNE	4,180	137	0	0.002
JULY	14,500	319	0	0.002
AUGUST	119,300	170,545	112	0.105
SEPTEMBER	12,970	516	0	0.003
SUMMARY	378,950	501,406	328	0.097

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	19,540	1,255	1	0.005
NOVEMBER	17,000	252	0	0.001
DECEMBER	32,780	910	1	0.002
JANUARY	37,840	978	1	0.002
FEBRUARY	48,050	629	0	0.001
MARCH	23,900	398	0	0.001
APRIL	13,450	374	0	0.002
MAY	10,160	308	0	0.002
JUNE	192,200	428,208	281	0.164
JULY	33,330	544	0	0.001
AUGUST	15,470	224	0	0.001
SEPTEMBER	10,450	201	0	0.001
SUMMARY	454,770	434,281	284	0.070



COLORADO RIVER BASIN  
PEDERNALES RIVER NEAR JOHNSON CITY

Net Drainage Area: 947 square miles.

Location: U. S. Highway 281 bridge about 1.1 miles northeast of Johnson City.  
Flow records were obtained from stream gaging station "Pedernales River near Johnson City," at the same location.

Records Available: August 1, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	125,500	102,420	67	0.060
NOVEMBER	9,110	72	0	0.001
DECEMBER	18,380	340	0	0.001
JANUARY	17,760	1,328	1	0.005
FEBRUARY	26,790	285	0	0.001
MARCH	16,110	4	0	0.000
APRIL	9,340	25	0	0.000
MAY	550	0	0	0.000
JUNE	2,290	4	0	0.000
JULY	4,540	151	0	0.002
AUGUST	5,800	56	0	0.001
SEPTEMBER	1,400	116	0	0.006
SUMMARY	242,570	104,801	68	0.032

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	28,770	763	1	0.002
NOVEMBER	8,200	114	0	0.001
DECEMBER	21,130	458	0	0.002
JANUARY	15,850	1,603	1	0.007
FEBRUARY	40,760			
MARCH	13,870	55	0	0.000
APRIL	7,350	137	0	0.001
MAY	4,380	12	0	0.000
JUNE	23,240	10,033	7	0.032
JULY	5,020	69	0	0.001
AUGUST	2,230	11	0	0.000
SEPTEMBER	3,730	348	0	0.007
SUMMARY				

COLORADO RIVER BASIN  
COLORADO RIVER AT AUSTIN

Net Drainage Area: 26,500 square miles.

Location: U. S. Highway 183 bridge. Flow records were obtained from stream gaging station "Colorado River at Austin," at the same location.

Records Available: August 2, 1937 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	610,000	53,536	35	0.006
NOVEMBER	285,600	7,052	5	0.002
DECEMBER	210,600	3,027	2	0.001
JANUARY	192,200	2,585	2	0.001
FEBRUARY	201,000	3,259	2	0.001
MARCH	202,400	3,246	2	0.001
APRIL	178,900	2,474	2	0.001
MAY	166,200	1,213	1	0.001
JUNE	159,400	1,841	1	0.001
JULY	155,200	998	1	0.000
AUGUST	120,900	1,023	1	0.001
SEPTEMBER	72,050	750	0	0.001
SUMMARY	2,555,050	81,004	54	0.002

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	98,330	8,450	6	0.006
NOVEMBER	35,560	2,833	2	0.006
DECEMBER	39,670	742	0	0.001
JANUARY	53,770	4,542	3	0.006
FEBRUARY	247,700	11,206	7	0.003
MARCH	226,500	6,532	4	0.002
APRIL	205,300	12,934	8	0.005
MAY	150,000	8,443	6	0.004
JUNE	142,200	10,917	7	0.006
JULY	246,900	20,689	14	0.006
AUGUST	223,900	18,472	12	0.006
SEPTEMBER	141,600	11,346	7	0.006
SUMMARY	1,811,630	117,006	76	0.005

LAVACA RIVER BASIN  
LAVACA RIVER NEAR EDNA

Net Drainage Area: 887 square miles.

Location: U. S. Highway 59 bridge, 2.8 miles southwest of Edna. Flow records were obtained from stream gaging station "Lavaca River near Edna," at the same location.

Records Available: September 1, 1945 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	16,280	13,200	9	0.060
NOVEMBER	13,920	24,563	16	0.130
DECEMBER	10,450	9,408	6	0.066
JANUARY	11,470	4,997	3	0.032
FEBRUARY	12,800	4,079	3	0.023
MARCH	5,060	139	0	0.002
APRIL	6,880	9,847	6	0.105
MAY	5,230	2,467	2	0.035
JUNE	64,520	18,207	12	0.021
JULY	11,270	2,598	2	0.017
AUGUST	39,310	19,701	13	0.037
SEPTEMBER	4,690	607	0	0.010
SUMMARY	201,880	109,813	72	0.040

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	223,300	61,365	40	0.020
NOVEMBER	50,690	24,445	16	0.035
DECEMBER	36,510	21,503	14	0.043
JANUARY	58,490	28,038	18	0.035
FEBRUARY	63,770	35,792	23	0.041
MARCH	10,020	13,059	9	0.096
APRIL	6,880	3,284	2	0.035
MAY	5,710	3,306	2	0.043
JUNE	81,190	32,464	21	0.029
JULY	34,670	20,691	14	0.044
AUGUST	5,050	2,182	1	0.032
SEPTEMBER	123,300	34,520	23	0.021
SUMMARY	699,580	280,649	183	0.029

GUADALUPE RIVER BASIN  
GUADALUPE RIVER NEAR SPRING BRANCH

Net Drainage Area: 1,282 square miles.

Location: Ranch Road 311 bridge, 2.0 miles southeast of Spring Branch. Flow records were obtained from stream gaging station "Guadalupe River near Spring Branch," at the same location.

Records Available: January 1, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	85,900	247,850	163	0.212
NOVEMBER	12,250	170	0	0.001
DECEMBER	13,150	769	1	0.004
JANUARY	16,900	191	0	0.001
FEBRUARY	19,700	477	0	0.002
MARCH	17,100	135	0	0.001
APRIL	14,860	43	0	0.000
MAY	9,510	88	0	0.001
JUNE	4,860	72	0	0.001
JULY	8,610	659	0	0.006
AUGUST	48,390	23,359	15	0.035
SEPTEMBER	10,900	238	0	0.002
SUMMARY	262,130	274,051	179	0.077

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	80,670	136,008	89	0.124
NOVEMBER	34,280	599	0	0.001
DECEMBER	49,050	940	1	0.001
JANUARY	42,340	163	0	0.000
FEBRUARY	81,620	101,609	67	0.091
MARCH	44,070	584	0	0.001
APRIL	24,480	168	0	0.001
MAY	15,390	46	0	0.000
JUNE	27,590	19,400	13	0.052
JULY	16,080	932	1	0.004
AUGUST	9,510	382	0	0.003
SEPTEMBER	7,040	229	0	0.002
SUMMARY	432,120	261,060	171	0.044



GUADALUPE RIVER BASIN  
GUADALUPE RIVER AT VICTORIA

Net Drainage Area: 5,161 square miles.

Location: U. S. Highway 59 bridge in Victoria. Flow records were obtained from stream gaging station "Guadalupe River at Victoria," at the same location.

Records Available: September 1, 1945 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	154,000	155,358	102	0.074
NOVEMBER	77,320	16,981	11	0.016
DECEMBER	68,510	2,587	2	0.003
JANUARY	87,990	8,149	5	0.007
FEBRUARY	86,780	12,299	8	0.010
MARCH	74,020	3,641	2	0.004
APRIL	77,380	5,938	4	0.006
MAY	147,100	22,461	15	0.011
JUNE	169,900	57,007	37	0.025
JULY	162,000	44,845	29	0.020
AUGUST	111,000	29,314	19	0.019
SEPTEMBER	64,920	4,668	3	0.005
SUMMARY	1,280,920	363,248	237	0.021

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	566,700	170,375	112	0.022
NOVEMBER	461,800	190,110	125	0.030
DECEMBER	202,200	28,510	19	0.010
JANUARY	235,700	32,525	21	0.010
FEBRUARY	257,700	105,238	69	0.030
MARCH	151,200	10,993	7	0.005
APRIL	96,320	7,435	5	0.006
MAY	70,780	4,587	3	0.005
JUNE	407,900	227,635	149	0.041
JULY	162,100	37,582	25	0.017
AUGUST	72,230	7,119	5	0.007
SEPTEMBER	113,100	24,465	16	0.016
SUMMARY	2,797,730	846,574	556	0.022

SAN ANTONIO RIVER BASIN  
SAN ANTONIO RIVER AT GOLIAD

Net Drainage Area: 3,921 square miles (revised).

Location: U. S. Highway 183 bridge in Goliad. Flow records were obtained from stream gaging station "San Antonio River at Goliad," at the same location.

Records Available: January 1, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	41,740	67,707	44	0.119
NOVEMBER	23,590	9,148	6	0.028
DECEMBER	20,620	917	1	0.003
JANUARY	24,220	7,850	5	0.024
FEBRUARY	21,960	4,312	3	0.014
MARCH	24,210	318,195	209	0.965
APRIL	20,800	3,255	2	0.011
MAY	19,580	3,026	2	0.011
JUNE	34,030	15,160	10	0.033
JULY	31,850	23,825	16	0.055
AUGUST	34,010	31,676	21	0.068
SEPTEMBER	14,760	5,593	4	0.028
SUMMARY	311,370	490,664	323	0.116

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	155,000	156,986	103	0.074
NOVEMBER	105,300	115,372	76	0.080
DECEMBER	58,040	32,482	21	0.041
JANUARY	53,370	21,528	14	0.030
FEBRUARY	75,420	67,648	44	0.066
MARCH	42,100	11,082	7	0.019
APRIL	25,150	7,920	5	0.023
MAY	16,390	1,138	1	0.005
JUNE	81,390	56,283	37	0.051
JULY	62,240	75,017	49	0.089
AUGUST	23,530	4,470	3	0.014
SEPTEMBER	21,610	5,841	4	0.020
SUMMARY	719,540	555,767	364	0.057

NUECES RIVER BASIN  
NUECES RIVER AT COTULLA

Net Drainage Area: 5,260 square miles.

Location: U. S. Highway 81 bridge at Cotulla. Flow records were obtained from streamflow gaging station "Nueces River at Cotulla," at the same location.

Records Available: January 1, 1942 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	240,200	44,833	29	0.014
NOVEMBER	9,350	457	0	0.004
DECEMBER	4,770	120	0	0.002
JANUARY	5,450	1,137	1	0.015
FEBRUARY	4,160	151	0	0.003
MARCH	2,800	65	0	0.002
APRIL	1,040	26	0	0.002
MAY	300	6	0	0.001
JUNE	0	0	0	0.000
JULY	20,150	2,762	2	0.010
AUGUST	13,230	1,802	1	0.010
SEPTEMBER	7,170	1,255	1	0.013
SUMMARY	308,620	52,614	34	0.013

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	23,560	5,179	3	0.016
NOVEMBER	26,070	3,560	2	0.010
DECEMBER	11,170	1,012	1	0.007
JANUARY	7,080	108	0	0.001
FEBRUARY	10,690	477	0	0.003
MARCH	4,950	160	0	0.002
APRIL	487	9	0	0.001
MAY	0	0	0	0.000
JUNE	30,570	3,480	2	0.008
JULY	29,830	3,247	2	0.008
AUGUST	24,030	1,474	1	0.005
SEPTEMBER	1,460	49	0	0.002
SUMMARY	169,897	18,755	11	0.008



NUECES RIVER BASIN  
FRIO RIVER AT CALLIHAM

Net Drainage Area: 5,491 square miles.

Location: Farm Road 99 bridge, 1 mile north of Calliham. Flow records were obtained from stream gaging station "Frio River at Calliham," located about 2500 feet upstream from sampling point.

Records Available: January 1, 1953 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	70,100	55,884	37	0.059
NOVEMBER	5,820	3,064	2	0.039
DECEMBER	906	71	0	0.006
JANUARY	970	76	0	0.006
FEBRUARY	1,180	106	0	0.007
MARCH	849	41	0	0.004
APRIL	4,280	1,496	1	0.026
MAY	1,080	72	0	0.005
JUNE	8,480	6,290	4	0.054
JULY	2,460	828	1	0.025
AUGUST	24,090	42,739	28	0.130
SEPTEMBER	1,870	526	0	0.021
SUMMARY	122,085	111,193	73	0.067

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	26,810	36,759	24	0.101
NOVEMBER	17,550	18,875	12	0.079
DECEMBER	7,070	5,106	3	0.053
JANUARY	5,100	3,996	3	0.058
FEBRUARY	16,480	11,704	8	0.052
MARCH	2,530	174	0	0.005
APRIL	13,570	6,967	5	0.038
MAY	116	0	0	0.000
JUNE	77,050	40,547	27	0.039
JULY	5,160	1,844	1	0.026
AUGUST	1,370	158	0	0.008
SEPTEMBER	121	1	0	0.001
SUMMARY	172,927	126,131	83	0.054

NUECES RIVER BASIN  
NUECES RIVER NEAR MATHIS

Net Drainage Area: 16,660 square miles (revised).

Location: State Highway 359 bridge about 0.6 mile downstream from Wesley E. Seale Dam. Flow records were obtained from stream gaging station "Nueces River near Mathis," at the same location.

Records Available: February 2, 1942 to date (June 1958 through June 1961 were found to be invalid).

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER				
NOVEMBER				
DECEMBER				
JANUARY				
FEBRUARY				
MARCH				
APRIL				
MAY				
JUNE				
JULY	28,100	457	0	0.001
AUGUST	28,100	886	1	0.002
SEPTEMBER	11,870	745	0	0.005
SUMMARY				



RECORDS OF SUSPENDED-SEDIMENT LOADS FROM SAMPLING STATIONS

OPERATED BY

INTERNATIONAL BOUNDARY AND WATER COMMISSION,

UNITED STATES AND MEXICO

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5780 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637



RIO GRANDE BASIN

RIO GRANDE AT EL PASO

Net Drainage Area: 29,271 square miles (all in U. S.).

Location: Courchesne bridge between El Paso, Texas and Cd. Juarez, Chihuahua.  
Flow records were obtained from the stream gaging station "Rio Grande at El Paso," at the same location.

Records Available: September 1, 1947 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	8,470	968	1	0.008
NOVEMBER	6,120	693	0	0.008
DECEMBER	6,570	1,010	1	0.011
JANUARY	5,270	365	0	0.005
FEBRUARY	3,820	377	0	0.007
MARCH	50,700	31,900	22	0.046
APRIL	38,700	8,400	6	0.016
MAY	41,600	10,500	7	0.018
JUNE	52,800	40,400	28	0.056
JULY	60,900	87,600	60	0.106
AUGUST	61,800	27,600	19	0.033
SEPTEMBER	36,600	9,330	6	0.019
SUMMARY	373,800	219,143	150	0.043

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	11,000	1,140	1	0.008
NOVEMBER	7,400	730	1	0.007
DECEMBER	7,220	180	0	0.002
JANUARY	5,810	315	0	0.004
FEBRUARY	3,970	214	0	0.004
MARCH	37,800	23,000	16	0.004
APRIL	33,100	10,200	7	0.022
MAY	29,800	6,840	5	0.017
JUNE	40,600	12,800	9	0.023
JULY	54,000	48,500	33	0.067
AUGUST	48,200	67,300	46	0.103
SEPTEMBER	26,900	33,600	23	0.092
SUMMARY	305,800	204,819	141	0.049

RIO GRANDE BASIN

RIO GRANDE AT LOWER PRESIDIO STATION

Net Drainage Area: 66,203 square miles (34,098 square miles in U. S. and 32,105 square miles in Mexico).

Location: Cable Car 10.1 miles downstream from the International Highway bridge between Presidio, Texas and Ojinaga, Chihuahua, Mexico. Flow records were obtained from stream gaging station "Rio Grande at Lower Presidio Station," at the same location.

Records Available: October 1, 1949 to date (Prior to January 1, 1955 samples were taken 11.8 miles upstream from present sampling site).

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	30,600	6,940	5	0.017
NOVEMBER	30,600	2,870	2	0.007
DECEMBER	31,400	2,600	2	0.006
JANUARY	53,900	10,400	7	0.014
FEBRUARY	75,700	32,200	22	0.031
MARCH	50,700	9,790	7	0.014
APRIL	22,400	1,690	1	0.006
MAY	16,300	524	0	0.002
JUNE	20,100	5,370	4	0.020
JULY	148,000	1,546,000	1,060	0.770
AUGUST	212,000	1,458,000	1,000	0.506
SEPTEMBER	120,000	479,000	330	0.294
SUMMARY	811,700	3,555,384	2,440	0.322

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	43,600	23,800	16	0.040
NOVEMBER	56,700	50,700	35	0.066
DECEMBER	70,700	19,900	14	0.021
JANUARY	66,200	20,900	14	0.023
FEBRUARY	43,800	2,810	2	0.005
MARCH	32,200	3,360	2	0.008
APRIL	12,400	742	1	0.004
MAY	23,900	23,000	16	0.071
JUNE	63,000	466,000	321	0.545
JULY	66,500	642,000	442	0.710
AUGUST	76,000	314,000	216	0.304
SEPTEMBER	49,300	190,000	131	0.284
SUMMARY	604,300	1,757,212	1,210	0.214

RIO GRANDE BASIN

RIO GRANDE AT JOHNSON RANCH

Net Drainage Area: 70,715 square miles (36,261 square miles in U. S. and 34,454 square miles in Mexico).

Location: Cable Car, 2 miles upstream from Johnson ranch and 14 miles downstream from Castolon, Texas. Flow records were obtained from stream gaging station "Rio Grande at Johnson Ranch," at the same location.

Records Available: October 1, 1949 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	30,700	21,700	15	0.052
NOVEMBER	31,200	57,400	40	0.135
DECEMBER	30,600	3,100	2	0.007
JANUARY	49,100	14,400	10	0.022
FEBRUARY	71,400	34,300	24	0.035
MARCH	50,000	7,480	5	0.011
APRIL	20,600	1,240	1	0.004
MAY	14,300	1,310	1	0.007
JUNE	23,000	50,100	35	0.160
JULY	175,000	3,646,000	2,510	1.534
AUGUST	222,000	3,541,000	2,440	1.173
SEPTEMBER	133,000	398,000	274	0.221
SUMMARY	250,900	7,776,030	5,357	0.672

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	54,300	221,000	152	0.300
NOVEMBER	57,900	219,000	151	0.278
DECEMBER	70,800	57,600	40	0.060
JANUARY	65,200	20,900	14	0.024
FEBRUARY	45,100	1,580	1	0.003
MARCH	34,400	4,360	3	0.009
APRIL	11,800	676	0	0.004
MAY	35,700	506,000	348	1.043
JUNE	68,000	655,000	451	0.708
JULY	76,800	562,000	387	0.538
AUGUST	85,200	998,000	687	0.862
SEPTEMBER	51,600	172,000	118	0.245
SUMMARY	656,800	3,418,116	2,352	0.383



RIO GRANDE BASIN  
RIO GRANDE AT LANGTRY

Net Drainage Area: 84,795 square miles (42,855 square miles in U. S. and 41,940 square miles in Mexico).

Location: Cable Car at Langtry, Texas. Flow records were obtained from the stream gaging station "Rio Grande at Langtry," at the same location.

Records Available: April 1, 1944 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	87,600	61,300	42	0.052
NOVEMBER	50,200	14,900	10	0.022
DECEMBER	49,300	5,710	4	0.009
JANUARY	67,500	121,000	83	0.132
FEBRUARY	95,300	48,100	33	0.037
MARCH	77,600	20,800	14	0.020
APRIL	39,800	1,940	1	0.004
MAY	29,900	1,590	1	0.004
JUNE	44,600	53,200	37	0.088
JULY	226,000	3,262,000	2,247	1.063
AUGUST	242,000	3,196,000	2,201	0.949
SEPTEMBER	188,000	1,014,000	698	0.398
SUMMARY	1,204,400	7,800,540	5,371	0.477

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	122,000	1,190,000	820	0.716
NOVEMBER	80,200	129,000	89	0.119
DECEMBER	93,100	60,000	41	0.047
JANUARY	86,600	24,400	17	0.021
FEBRUARY	67,900	8,550	6	0.009
MARCH	57,200	6,960	5	0.009
APRIL	27,900	2,520	2	0.007
MAY	70,600	928,000	639	0.967
JUNE	153,000	1,860,000	1,280	0.895
JULY	129,000	1,724,000	1,190	0.987
AUGUST	117,000	1,557,000	1,070	0.981
SEPTEMBER	83,200	130,000	90	0.115
SUMMARY	1,087,700	7,620,430	5,249	0.515

RIO GRANDE BASIN  
PECOS RIVER NEAR SHUMLA

Net Drainage Area: 35,162 square miles (all in U.S.)

Location: Rock ledge and light cableway 4.5 miles north of Shumla and 13 miles upstream from Pecos High Bridge. Flow records were obtained from the stream gaging station "Pecos River near Shumla," at the same location.

Records Available: November 1, 1954 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	101,000	86,900	60	0.063
NOVEMBER	19,200	598	0	0.002
DECEMBER	16,300	799	1	0.004
JANUARY	16,400	456	0	0.002
FEBRUARY	14,600	363	0	0.002
MARCH	14,300	364	0	0.002
APRIL	11,800	437	0	0.003
MAY	9,450	280	0	0.002
JUNE	7,810	174	0	0.002
JULY	19,100	522	0	0.002
AUGUST	12,200	252	0	0.002
SEPTEMBER	8,290	221	0	0.002
SUMMARY	250,450	91,366	61	0.027

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	12,300	658	0	0.004
NOVEMBER	10,800	462	0	0.003
DECEMBER	11,200	358	0	0.002
JANUARY	12,200	894	1	0.005
FEBRUARY	10,300	561	0	0.004
MARCH	7,780	653	0	0.005
APRIL	9,510	154	0	0.001
MAY	7,960	511	0	0.005
JUNE	44,600	60,600	42	0.100
JULY	16,500	1,120	1	0.005
AUGUST	16,400	1,110	1	0.005
SEPTEMBER	10,700	499	0	0.003
SUMMARY	172,250	67,580	45	0.029



RIO GRANDE BASIN

RIO GRANDE NEAR DEL RIO

Net Drainage Area: 126,940 square miles (82,750 square miles in U.S. and 44,190 square miles in Mexico)

Location: International bridge between Del Rio, Texas and Cd. Acuna, Coahuila, Mexico. Flow records were obtained from the stream gaging station "Rio Grande below Amistad Dam Site," located 10.5 miles upstream from the sampling point.

Records Available: August 1, 1955 to date.

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	352,000	939,000	647	0.196
NOVEMBER	131,000	18,000	12	0.010
DECEMBER	125,000	11,400	8	0.007
JANUARY	136,000	22,300	15	0.012
FEBRUARY	156,000	36,500	25	0.017
MARCH	141,000	24,600	17	0.013
APRIL	99,500	8,170	6	0.006
MAY	79,100	1,750	1	0.002
JUNE	91,600	75,900	52	0.061
JULY	290,000	3,255,000	2,240	0.826
AUGUST	291,000	2,583,000	1,780	0.654
SEPTEMBER	252,000	1,085,000	747	0.317
SUMMARY	2,144,200	8,060,620	5,550	0.277

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	212,000	1,287,000	886	0.446
NOVEMBER	138,000	440,000	303	0.234
DECEMBER	153,000	66,100	46	0.032
JANUARY	141,000	23,400	16	0.012
FEBRUARY	115,000	12,700	9	0.008
MARCH	106,000	11,300	8	0.008
APRIL	69,500	5,580	4	0.006
MAY	101,000	301,000	207	0.219
JUNE	439,000	1,578,000	1,090	0.265
JULY	236,000	1,497,000	1,030	0.468
AUGUST	190,000	1,024,000	705	0.396
SEPTEMBER	141,000	348,000	240	0.181
SUMMARY	2,041,500	6,594,080	4,544	0.238

RIO GRANDE BASIN

RIO GRANDE AT LAREDO

Net Drainage Area: 135,976 square miles (85,718 square miles in U. S. and 50,258 square miles in Mexico).

Location: Laredo, Texas Water Treatment Plant in the northwest part of city. Flow records were obtained from the stream gaging station "Rio Grande at Laredo," located approximately 2 miles downstream.

Records Available: January 1, 1953 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	389,000	1,344,000	926	0.254
NOVEMBER	178,300	20,300	14	0.008
DECEMBER	151,500	16,800	12	0.008
JANUARY	160,100	21,200	15	0.010
FEBRUARY	173,100	59,300	41	0.025
MARCH	153,400	37,200	26	0.018
APRIL	99,310	14,600	10	0.011
MAY	91,530	51,900	36	0.042
JUNE	62,020	3,160	2	0.004
JULY	286,400	2,716,000	1,870	0.698
AUGUST	274,800	2,217,000	1,530	0.594
SEPTEMBER	292,500	1,870,000	1,290	0.471
SUMMARY	2,311,960	8,371,460	5,772	0.265

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	377,200	1,319,000	908	0.257
NOVEMBER	196,600	309,000	213	0.116
DECEMBER	189,100	98,200	68	0.038
JANUARY	176,600	26,700	18	0.011
FEBRUARY	147,700	26,100	18	0.013
MARCH	105,800	16,900	12	0.012
APRIL	76,620	38,800	27	0.037
MAY	105,500	68,800	47	0.048
JUNE	648,800	2,861,000	1,970	0.325
JULY	325,000	1,321,000	909	0.299
AUGUST	230,600	856,000	589	0.273
SEPTEMBER	158,400	149,000	103	0.069
SUMMARY	2,737,920	7,045,500	4,882	0.189

RIO GRANDE BASIN

RIO GRANDE AT FALCON DAM - U. S. TAILRACE

Net Drainage Area: 164,482 square miles (87,760 square miles in U.S. and 76,722 square miles in Mexico)

Location: United States Tailrace of Falcon Dam. Flow records were obtained from total releases as determined by International Boundary and Water Commission.

Records Available: July 1, 1955 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	97,300	3,110	2	0.002
NOVEMBER	42,400	720	1	0.001
DECEMBER	133,000	1,900	1	0.001
JANUARY	355,000	7,820	5	0.002
FEBRUARY	244,000	8,350	6	0.003
MARCH	66,500	1,410	1	0.002
APRIL	138,000	1,950	1	0.001
MAY	244,000	4,940	3	0.001
JUNE	551,000	4,180	3	0.001
JULY	192,000	2,750	2	0.001
AUGUST	80,600	4,090	3	0.004
SEPTEMBER	37,600	2,150	2	0.004
SUMMARY	2,181,400	43,370	30	0.001

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	90,900	3,640	3	0.003
NOVEMBER	41,700	433	0	0.001
DECEMBER	37,100	262	0	0.001
JANUARY	220,475	593	0	0.001
FEBRUARY	202,200	781	1	0.001
MARCH	172,436	927	1	0.000
APRIL	177,691	7,730	5	0.002
MAY	322,475	7,680	5	0.001
JUNE	331,050	1,490	1	0.001
JULY	117,896	611	0	0.000
AUGUST	137,050	1,150	1	0.000
SEPTEMBER	137,188	1,070	1	0.000
SUMMARY	1,988,161	26,367	18	0.001



RIO GRANDE BASIN

RIO GRANDE AT FORT RINGGOLD, RIO GRANDE CITY

Net Drainage Area: 180,396 square miles (87,982 square miles in U. S. and 92,414 square miles in Mexico)

Location: Cable car 1 mile downstream from Fort Ringgold in Rio Grande City. Flow records were obtained from stream gaging station "Rio Grande at Fort Ringgold, Rio Grande City," at the same location.

Records Available: May 1, 1959 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	113,000	6,830	5	0.004
NOVEMBER	51,300	6,120	4	0.009
DECEMBER	128,000	17,600	12	0.010
JANUARY	350,000	47,300	33	0.010
FEBRUARY	256,000	19,700	14	0.006
MARCH	68,300	895	1	0.001
APRIL	155,000	74,000	51	0.035
MAY	237,000	35,500	24	0.011
JUNE	560,000	39,000	27	0.005
JULY	215,000	99,500	69	0.034
AUGUST	109,000	184,000	127	0.124
SEPTEMBER	72,600	56,700	39	0.057
SUMMARY	2,314,900	587,145	406	0.019

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	103,000	3,810	3	0.003
NOVEMBER	42,700	1,820	1	0.003
DECEMBER	36,100	1,480	1	0.003
JANUARY	75,800	3,460	2	0.003
FEBRUARY	68,900	1,680	1	0.001
MARCH	333,000	38,700	27	0.009
APRIL	256,000	47,300	33	0.014
MAY	484,000	94,200	65	0.014
JUNE	226,000	55,500	38	0.018
JULY	146,000	5,270	4	0.003
AUGUST	202,000	18,900	13	0.007
SEPTEMBER	244,000	84,600	58	0.025
SUMMARY	2,237,500	356,720	246	0.012

RIO GRANDE BASIN

RIO GRANDE NEAR LOS EBANUS

Net Drainage Area: Not available.

Location: Ferry at Los Ebanos. Flow records were obtained from the stream gaging station "Rio Grande at Fort Ringgold, Rio Grande City," approximately 24 miles upstream and estimated storm runoff between gaging station and sampling station as determined by IBWC.

Records Available: May 1, 1956 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	113,000	5,710	4	0.004
NOVEMBER	51,300	12,300	9	0.018
DECEMBER	128,000	4,060	3	0.002
JANUARY	350,000	55,800	38	0.012
FEBRUARY	256,000	13,200	9	0.004
MARCH	68,300	3,330	2	0.004
APRIL	155,000	92,000	63	0.044
MAY	237,000	35,000	24	0.011
JUNE	560,000	59,700	41	0.008
JULY	215,000	18,500	13	0.006
AUGUST	109,000	47,700	33	0.032
SEPTEMBER	72,600	80,400	55	0.081
SUMMARY	2,315,200	427,700	294	0.013

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	103,000	46,400	32	0.027
NOVEMBER	42,700	4,920	3	0.008
DECEMBER	36,100	2,590	2	0.005
JANUARY	75,800	6,150	4	0.006
FEBRUARY	88,900	2,230	2	0.002
MARCH	333,000	58,400	40	0.013
APRIL	256,000	40,200	28	0.012
MAY	484,000	114,000	79	0.017
JUNE	226,000	34,900	24	0.011
JULY	146,000	11,100	8	0.006
AUGUST	202,000	25,600	18	0.009
SEPTEMBER	244,000	114,000	79	0.034
SUMMARY	2,237,500	460,490	319	0.015



RIO GRANDE BASIN

RIO GRANDE BELOW ANZALDUAS DAM

Net Drainage Area: 182,138 square miles (88,934 square miles in U. S. and 93,204 square miles in Mexico) revised.

Location: International Highway Bridge between Hidalgo, Texas and Reynosa, Tamaulipas. Flow records were obtained from the stream gaging stations "Rio Grande below Anzalduas Dam," located 12.2 miles upstream, plus "Return Flow to the Rio Grande at Poniente Drain", 0.7 miles upstream.

Records Available: May 1, 1956 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	91,480	5,480	4	0.004
NOVEMBER	39,400	1,160	1	0.002
DECEMBER	63,590	3,890	3	0.004
JANUARY	131,300	20,000	14	0.011
FEBRUARY	50,000	6,700	5	0.006
MARCH	45,090	4,750	3	0.006
APRIL	101,800	35,900	25	0.025
MAY	62,120	13,100	9	0.010
JUNE	217,800	19,200	13	0.006
JULY	125,200	14,600	10	0.009
AUGUST	58,410	9,700	7	0.012
SEPTEMBER	70,740	64,200	44	0.067
SUMMARY	1,056,930	198,680	138	0.014

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FeET	
OCTOBER	73,260	156,000	107	0.157
NOVEMBER	40,090	6,260	4	0.011
DECEMBER	32,020	3,070	2	0.007
JANUARY	33,250	1,580	1	0.004
FEBRUARY	50,310	604	0	0.001
MARCH	126,400	39,600	27	0.023
APRIL	106,600	19,400	13	0.013
MAY	166,500	49,600	34	0.022
JUNE	148,000	19,800	14	0.010
JULY	83,050	3,010	2	0.003
AUGUST	107,000	40,600	28	0.028
SEPTEMBER	177,700	321,000	221	0.133
SUMMARY	1,144,180	660,524	453	0.042

RIO GRANDE BASIN  
RIO GRANDE NEAR SAN BENITO

Net Drainage Area: 182,187 square miles (88,954 square miles in U. S. and 93,233 square miles in Mexico).

Location: 5.6 miles below San Benito pumping plant. Flow records were obtained from stream gaging station "Rio Grande near San Benito," at the same location.

Records Available: April 1, 1955 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	47,300	41,000	28	0.064
NOVEMBER	21,900	905	1	0.003
DECEMBER	25,800	8,600	6	0.025
JANUARY	44,900	16,900	12	0.028
FEBRUARY	42,100	14,000	10	0.025
MARCH	26,900	2,490	2	0.007
APRIL	47,700	15,200	11	0.023
MAY	35,200	24,100	17	0.050
JUNE	58,200	19,900	14	0.025
JULY	39,000	5,090	4	0.010
AUGUST	29,000	19,300	13	0.049
SEPTEMBER	55,000	42,300	29	0.057
SUMMARY	473,000	209,785	147	0.033

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	36,200	6,690	5	0.014
NOVEMBER	26,300	2,960	2	0.008
DECEMBER	22,900	1,080	1	0.003
JANUARY	23,600	1,860	1	0.006
FEBRUARY	20,600	269	0	0.001
MARCH	29,800	6,070	4	0.015
APRIL	43,800	14,000	10	0.024
MAY	49,000	22,600	16	0.034
JUNE	52,400	11,200	8	0.016
JULY	28,200	2,000	1	0.005
AUGUST	65,600	70,500	49	0.079
SEPTEMBER	143,000	317,000	218	0.163
SUMMARY	541,400	456,229	315	0.062

RIO GRANDE BASIN

RIO GRANDE AT LOWER BROWNSVILLE

Net Drainage Area: 182,215 square miles (88,968 square miles in U. S. and 93,247 square miles in Mexico).

Location: Cable car located 1,000 feet downstream from the El Jardin pumping plant and 6.8 river miles downstream from Brownsville. Flow records were obtained from the stream gaging station "Rio Grande at Lower Brownsville," at the same location.

Records Available: April 1, 1955 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	45,200	8,560	6	0.014
NOVEMBER	19,400	3,800	3	0.014
DECEMBER	17,100	4,690	3	0.020
JANUARY	26,000	6,450	4	0.018
FEBRUARY	35,100	7,160	5	0.015
MARCH	26,000	2,730	2	0.008
APRIL	38,000	4,890	3	0.009
MAY	27,600	4,940	3	0.013
JUNE	25,700	18,500	13	0.053
JULY	28,400	1,700	1	0.004
AUGUST	24,200	7,190	5	0.022
SEPTEMBER	52,600	36,600	27	0.055
SUMMARY	365,300	97,210	75	0.020

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	30,800	15,100	10	0.036
NOVEMBER	25,700	5,770	4	0.017
DECEMBER	18,200	1,780	1	0.007
JANUARY	22,300	1,720	1	0.006
FEBRUARY	14,600	406	0	0.002
MARCH	15,400	1,720	1	0.008
APRIL	33,800	17,400	12	0.038
MAY	32,200	20,300	14	0.046
JUNE	37,500	7,350	5	0.014
JULY	17,900	1,160	1	0.005
AUGUST	56,000	39,600	27	0.052
SEPTEMBER	134,000	344,000	237	0.189
SUMMARY	438,400	461,306	313	0.077





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COLORADO RIVER BASIN  
COLORADO RIVER AT COLUMBUS

Net Drainage Area: 29,170 square miles

Location: U. S. Highway 90 at eastern edge of Columbus. Flow records were obtained from stream gaging station "Colorado River at Columbus," at the same location.

Records Available: March 1957 to date

WATER YEAR 1960

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	605,800	528,006		
NOVEMBER	329,400	140,613		
DECEMBER	250,400	83,771		
JANUARY	234,000	47,976		
FEBRUARY	271,200	119,547		
MARCH	232,300	16,340		
APRIL	358,500	136,220		
MAY	270,200	135,101		
JUNE	390,400	520,555		
JULY	189,800	34,313		
AUGUST	147,900	19,194		
SEPTEMBER	82,940	6,793		
SUMMARY	3,363,000	2,408,290		

WATER YEAR 1961

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WT
		TONS	ACRE-FEET	
OCTOBER	389,300	955,296		
NOVEMBER	259,800	293,678		
DECEMBER	174,700	145,181		
JANUARY	207,700	147,834		
FEBRUARY	399,200	447,457		
MARCH	259,900	27,097		
APRIL	232,100	48,939		
MAY	160,400	14,665		
JUNE	487,700	699,547		
JULY	495,900	506,333		
AUGUST	235,900	18,244		
SEPTEMBER	527,100	571,679		
SUMMARY	3,830,000	3,875,950		





