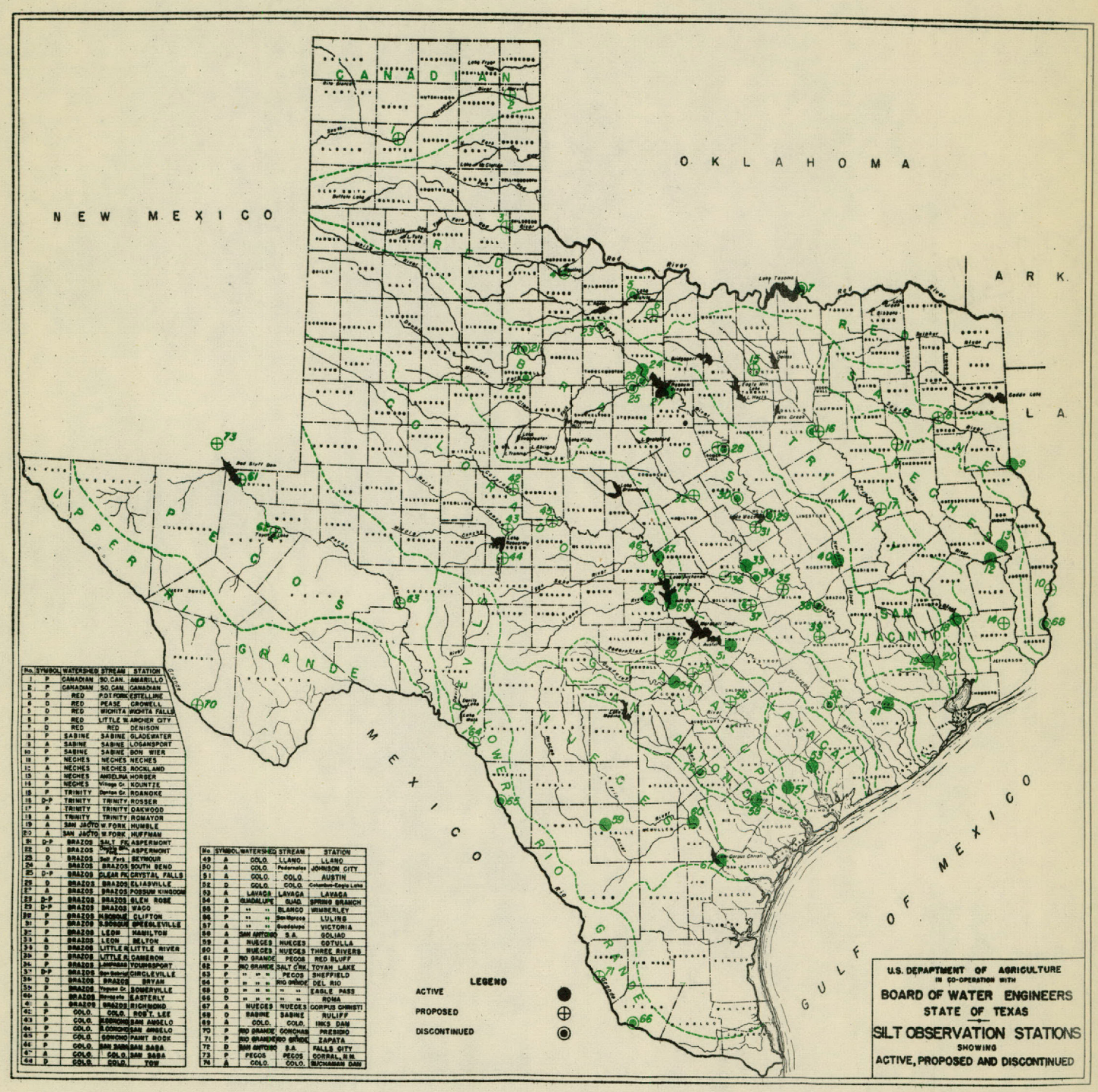
STATE OF TEXAS
BOARD OF WATER ENGINEERS
and
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF IRRIGATION AND WATER CONSERVATION

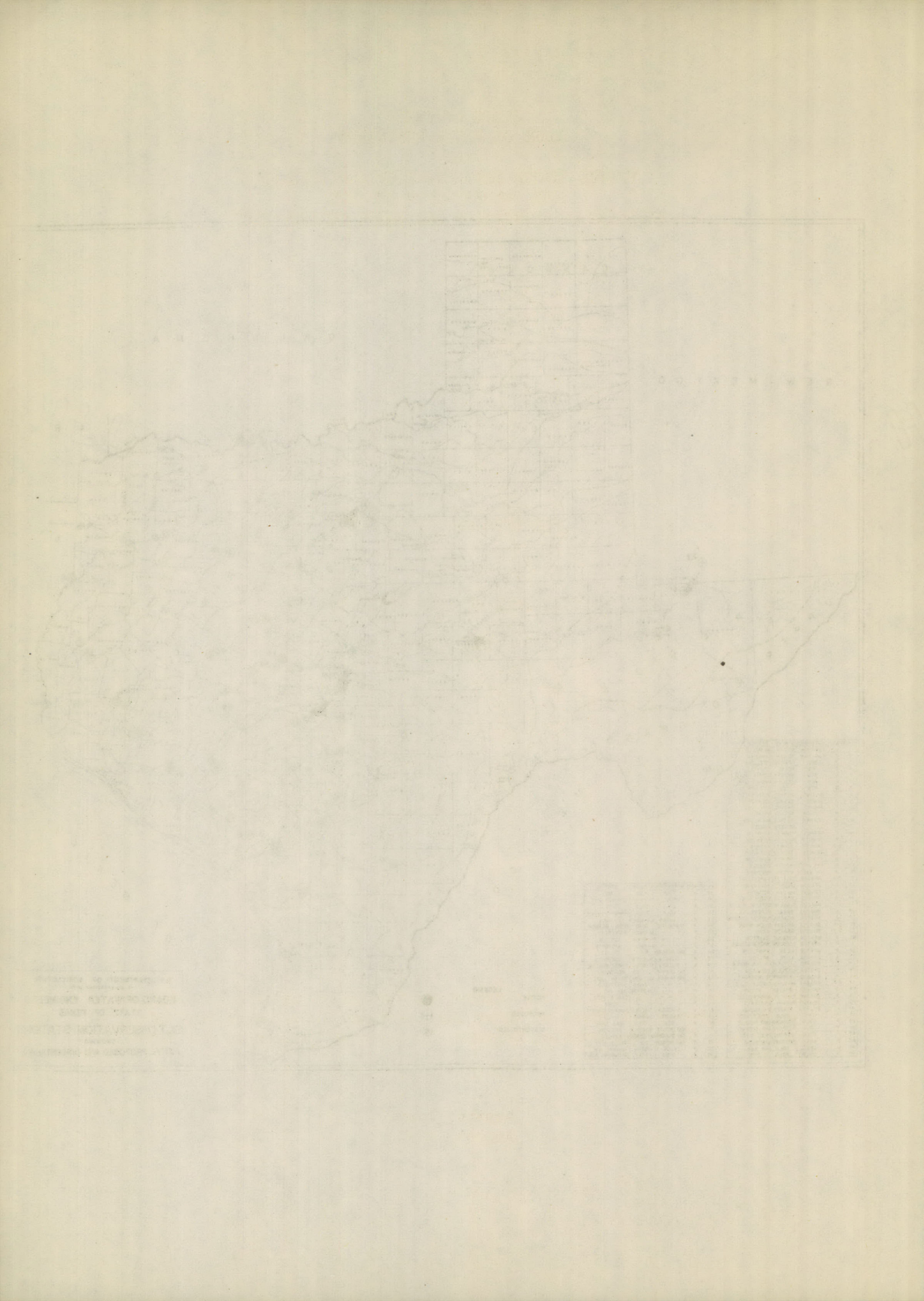
PROGRESS REPORT NO. 11
of
SILT LOAD OF TEXAS STREAMS
(1948-1949)

(The silt data contained in this report were obtained under a cooperative agreement between the Board of Water Engineers and U. S. Department of Agriculture, Soil Conservation Service, Division of Irrigation and Water Conservation.)
Austin, Texas
August, 1950



No.	SYMBOL	WATERSHED	STREAM	STATION
1	P	CANADIAN	SO. CAN.	AMARILLO
2	P	CANADIAN	SO. CAN.	CANADIAN
3	P	RED	PDT FORK	ESTELLINE
4	D	RED	PEASE	CROWELL
5	D	RED	WICHITA	WICHITA FALLS
6	P	RED	LITTLE W.	ARCHER CITY
7	D	RED	RED	DENISON
8	P	SABINE	SABINE	GLADEWATER
9	A	SABINE	SABINE	LOGANSPORT
10	P	SABINE	SABINE	BON WIER
11	P	NECHES	NECHES	NECHES
12	A	NECHES	NECHES	ROCKLAND
13	A	NECHES	ANGELINA	HORGER
14	P	NECHES	Village Cr.	KOUNTZE
15	P	TRINITY	Denton Cr.	ROANOKE
16	D-P	TRINITY	TRINITY	ROSSER
17	P	TRINITY	TRINITY	OAKWOOD
18	A	TRINITY	TRINITY	RONAYOR
19	A	SAN JACTO	W. FORK	HUMBLE
20	A	SAN JACTO	W. FORK	HUFFMAN
21	D-P	BRAZOS	SALT FK.	ASPERMONT
22	D	BRAZOS	Salt Fork	ASPERMONT
23	D	BRAZOS	Salt Fork	SEYMOUR
24	A	BRAZOS	BRAZOS	SOUTH BEND
25	D-P	BRAZOS	CLEAR FK.	CRYSTAL FALLS
26	D	BRAZOS	BRAZOS	ELIASVILLE
27	A	BRAZOS	BRAZOS	POSSUM KINGDOM
28	D-P	BRAZOS	BRAZOS	GLEN ROSE
29	D-P	BRAZOS	BRAZOS	WACO
30	P	BRAZOS	NORTH	CLIFTON
31	P	BRAZOS	N. BOSQUE	SPRINGLEVILLE
32	P	BRAZOS	LEON	HAMILTON
33	A	BRAZOS	LEON	BELTON
34	D	BRAZOS	LITTLE R.	LITTLE RIVER
35	P	BRAZOS	LITTLE R.	CAMERON
36	P	BRAZOS	Lampasas	YOUNGSPORT
37	D-P	BRAZOS	San Gabriel	GRGLEVILLE
38	D	BRAZOS	BRAZOS	BRYAN
39	P	BRAZOS	Yegua Cr.	BONNERVILLE
40	A	BRAZOS	Navasota	EASTERLY
41	A	BRAZOS	BRAZOS	RICHMOND
42	P	COLO.	COLO.	BOB T. LEE
43	P	COLO.	R. CONCHO	SAN ANGELO
44	P	COLO.	R. CONCHO	SAN ANGELO
45	P	COLO.	CONCHO	PAINT ROCK
46	P	COLO.	SAN SABA	SAN SABA
47	A	COLO.	COLO.	SAN SABA
48	D	COLO.	COLO.	TOW

No.	SYMBOL	WATERSHED	STREAM	STATION
49	A	COLO.	LLANO	LLANO
50	A	COLO.	Pedernales	JOHNSON CITY
51	A	COLO.	COLO.	AUSTIN
52	D	COLO.	COLO.	Columbus-Eagle Lake
53	A	LAVACA	LAVACA	LAVACA
54	A	GUADALUPE	GUAD.	SPRING BRANCH
55	P	"	BLANCO	WIMBERLEY
56	P	"	San Marcos	LULING
57	A	"	Guadalupe	VICTORIA
58	A	SAN ANTONIO	S.A.	GOLIAD
59	A	NUECES	NUECES	COTULLA
60	A	NUECES	NUECES	THREE RIVERS
61	P	RIO GRANDE	PECOS	RED BLUFF
62	P	RIO GRANDE	SALT CRK.	TOYAH LAKE
63	P	" " "	PECOS	SHEFFIELD
64	P	" " "	RIO GRNDE	DEL RIO
65	D	" " "	" "	EAGLE PASS
66	D	" " "	" "	ROMA
67	A	NUECES	NUECES	CORPUS CHRISTI
68	D	SABINE	SABINE	RULIFF
69	A	COLO.	COLO.	INKS DAM
70	P	RIO GRANDE	CONCHAS	PRESIDIO
71	P	RIO GRANDE	RIO GRNDE	ZAPATA
72	D	SAN ANTONIO	S.A.	FALLS CITY
73	P	PECOS	PECOS	CORRAL, N.M.
74	A	COLO.	COLO.	BUCHANAN DAM



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Austin, Texas
August, 1950

ORGANIZATION

STATE OF TEXAS

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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
DIVISION OF IRRIGATION AND WATER CONSERVATION
Cooperating in Studies on Silt of Texas Streams

H. H. Bennett, Chief of Service
M. L. Nichols, Chief of Research
Geo. D. Clyde, Chief, Division of Irrigation

TABLE OF CONTENTS

	Page
INTRODUCTION	1
SUMMARIZED SILT DATA	2-7
COOPERATION AND ACKNOWLEDGEMENTS	8
SUSPENDED SILT LOAD DETERMINATIONS	
Brazos River Watershed	
Belton Station (Leon River)	9-10
Easterly Station (Navasota River)	11-12
South Bend Station	13-14
Possum Kingdom Dam Station	15-16
Richmond Station.	17-18
Colorado River Watershed	
Llano Station (Llano River)	19-20
Johnson City Station (Pedernales River)	21-22
San Saba Station.	23-24
Inks Dam Station.	25-26
Buchanan Dam Station	27-28
Austin Station	29-30
Guadalupe River Watershed	
Spring Branch Station	31-32
Victoria Station.	33-34
Lavaca River Watershed	
Edna Station	35-36

(continued on next page)

TABLE OF CONTENTS (Cont'd.)

	Page
Neches River Watershed	
Horger Station (Angelina River)	37-38
Rockland Station	39-40
Nueces River Watershed	
Cotulla Station	41-42
Three Rivers Station	43-44
Corpus Christi Dam Station	45-46
Sabine River Watershed	
Logansport, La. Station	47-48
San Antonio River Watershed	
Goliad Station.	49-50
San Jacinto River Watershed	
Huffman Station	51-52
Humble Station (West Fork San Jacinto River). . .	53-54
Trinity River Watershed	
Romayor Station	55-56
SUMMARY OF ALL TEXAS SILT STATIONS, ACTIVE AND DISCONTINUED	57-58

Progress Report No. 11
of
THE SILT LOAD OF TEXAS STREAMS, 1948-1949

by

Dean W. Bloodgood, Irrigation Engineer
Division of Irrigation Research
Soil Conservation Service
U. S. Department of Agriculture

INTRODUCTION

The purpose of the silt studies is to make a determination of the characteristics of the suspended silt load of Texas streams.

The eleventh annual progress report for Silt Load of Texas Streams is one of a series that has been prepared annually since 1939.

The first report contains cooperative and other available data on the suspended silt load of Texas streams for a period from 1899 to 1939. These data were obtained at 27 stations located on 10 of the watersheds of Texas and consisted of the amount of silt load in tons and acre feet for each month and for the year, as well as a summary for the period the station was in operation. This report also contains a description of the equipment used in obtaining the water samples, the technique used in the laboratory, and computation of data.

The subsequent reports contain a compilation of silt data obtained during the water years ending each September 30 and a summary of the yearly silt load up to the time of the present report. Most of these reports are available for free distribution upon request.

Prior to 1939, 14 silt sampling stations were discontinued, out of a total of 27, on account of insufficient funds for their operation and maintenance.

Since 1939 and to September 30, 1948, 18 new silt sampling stations have been established, and 7 have been discontinued. There are now 24 active silt sampling stations located on 10 of the watersheds of Texas. Since 1899 silt data have been obtained at 45 stations. The complete silt program calls for studies at 74 stations, which include the 45 that have contributed data.

The water samples collected for silt determinations were obtained by a simple, inexpensive, and easily operated device known as the Texas or Department of Agriculture sampler. This type of sampler has been in continuous use during the past 25 years in obtaining water samples for suspended silt load of Texas streams. During this long period to September 30, 1949, a total of 108,336 daily observations have been

made with this type of sampler. Each observation consisted of obtaining one to three water samples for regular river flows and extra samples during flood stage of a stream. During the water year 1948-1949, 7,826 daily observations were made at 24 stations, and 11,132 water samples were received and silt determinations made at our cooperative silt laboratory.

The Texas or Department of Agriculture silt sampler is not designed nor used for collecting water samples containing bed load material. It is used, however, for collecting water samples near the surface of a stream for suspended silt material. This is the type of material that contributes to most of the sediment deposited in the larger artificial lakes. The bed load material contributes mostly to a river channel and upper portion of a lake sedimentation.

All silt data compiled for this report have been computed for a water year October 1 to the following September 30. This is a year adopted by the Surface Water Branch, United States Geological Survey, in all of their stream measurements. It is necessary and essential to use river discharge data in connection with any silt determination of Texas stream, and therefore, that period has also been adopted as a year for the silt calculations.

The silt determinations are made by calculating the percentage of dry silt by weight as obtained from a water sample.

For the main purpose of the sedimentation studies of Texas streams all calculations are based on one cubic foot of silt weighing 70 pounds.

SUMMARIZED SILT DATA

Belton Station, Leon River

The average discharge of the Leon River at the Belton Station for a 3-year record is 375,910 acre feet, while for the year 1948-1949, it was 298,580 acre feet, or 79% of the average flow. The average silt load for the same period is 353 acre feet, while for 1948-1949, it was 372 acre feet, or 105% of the average load. The total load for a 4-year period is 2,266,760 tons or 1,518 acre feet of silt.

South Bend Station, Brazos River

The average discharge of the Brazos River at the South Bend Station (upper portion of watershed) for a 6.7-year period is 481,545 acre feet, while for the year 1948-1949, it was 514,710 acre feet, or 107% of the average flow. The average silt load for the same period is 2,152 acre feet, while for the year 1948-1949, it was 4,062 acre feet, or 189% of the average load. The total load for the 7.7-year period was 28,201,360 tons, or 18,499 acre feet of silt.

Richmond Station, Brazos River

The average discharge of the Brazos River at the Richmond Station (lower portion of the watershed) for a 24.3-year period is 5,856,295 acre feet, while for the year 1948-1949, it was 3,362,850 acre feet, which is 57% of the average flow. The average load for the same period is 23,980 acre feet, while for the year it was 9,482 acre feet, which is 40% of the average load. The total load for a 25.3-year period is 904,281,270 tons or 592,352 acre feet of silt. This large quantity of silt is sufficient to have jeopardized the economic life of a water storage reservoir similar to Lake Possum Kingdom located on the same watershed and which has a capacity of 750,000 acre feet of water. The data obtained at the Richmond Station are probably the longest continuous daily silt records in existence (26.1 years to August, 1950).

Easterly Station, Navasota River

The average discharge of the Navasota River (a tributary of the Brazos River) at the Easterly Station for a 6.7-year period is 384,068 acre feet, while for the year 1948-1949, it was 105,970 acre feet, which is 28% of the average flow. The average silt load for the same period is 242 acre feet, while for 1948-1949, it was 58 acre feet, which is 24% of the average load. The total load for a 7.7-year period is 2,574,670 tons or 1,692 acre feet of silt.

San Saba Station, Colorado River

The average discharge of the Colorado River at the San Saba Station (located a few miles above the upper portion of Lake Buchanan) for an 18-year period is 1,210,570 acre feet, while for the year 1948-1949, it was 947,390 acre feet, which is 78% of the average flow. The average silt load for the same period is 3,097 acre feet, while for the year 1948-1949, it was 3,043 acre feet, which is 98% of the average load. The total load for a 19-year period is 89,899,900 tons or 58,962 acre feet of silt. The silt records obtained at this station are also among the longest daily continuous records (19.8 years to August, 1950).

Johnson City Station, Pedernales River

The average discharge of the Pedernales River (a tributary of the Colorado River) at the Johnson City Station for a 6.2-year period is 115,367 acre feet, while for the year 1948-1949, it was 37,660 acre feet, which is 33% of the average flow. The average silt load for the same period is 155 acre feet, while for the year 1948-1949, it was 35 acre feet, which is 23% of the average load. The total load for a 7.2-year period is 1,511,060 tons or 992 acre feet of silt.

Llano Station, Llano River

The average discharge of the Llano River (a tributary of the Colorado River and joining it between Lake Buchanan and Lake Travis)

at the Llano Station for a 6.2-year period is 205,312 acre feet, while for the year 1948-1949, it was 202,841 acre feet, which is 99% of the average flow. The average silt load for the same period is 276 acre feet, while for the year 1948-1949, it was 53 acre feet, which is 19% of the average load. The total load for a 7.2-year period is 2,676,980 tons or 1,755 acre feet of silt.

Spring Branch Station, Guadalupe River

The average discharge of the Guadalupe River at the Spring Branch Station (upper portion of the watershed) for a 6.7-year period is 213,837 acre feet, while for the year 1948-1949, it was 119,610 acre feet, which is 56% of the average flow. The average silt load for the same period is 114 acre feet, while for the year 1948-1949, it was 33 acre feet, which is 29% of the average load.

The total load for a 7.7-year period is 1,223,350 tons, or 799 acre feet of silt.

Victoria Station, Guadalupe River

The average discharge of the Guadalupe River at the Victoria Station (lower portion of the watershed) for a 3.1-year period is 1,123,325 acre feet, while for the year 1948-1949, it was 871,660 acre feet, which is 78% of the average flow. The average silt load for the same period is 408 acre feet, while for 1948-1949, it was 398 acre feet, which is 98% of the average load. The total load for a 4.1-year period is 2,523,310 tons, or 1,657 acre feet of silt.

Edna Station, Lavaca River

The average discharge of the Lavaca River at the Edna Station for a 3.1-year period is 204,959 acre feet, while for the year 1948-1949, it was 205,400 acre feet, or 100% of the average flow. The average silt load for the same period is 132 acre feet, while for the year 1948-1949, it was 134 acre feet, or 102% of the average load. The total load for a 4.1-year period is 824,260 tons, or 541 acre feet of silt.

Rockland Station, Neches River

The average discharge of the Neches River at the Rockland Station for an 18.1-year period is 2,008,480 acre feet, while for the year 1948-1949, it was 1,172,870 acre feet, which is 58% of the average flow. The average silt load for the same period is 323 acre feet, while for 1948-1949, it was 119 acre feet, which is 37% of the average load. The total silt load for a 19.1-year period is 9,136,880 tons, or 5,984 acre feet of silt. This is also one of the stations with a long, continuous silt record.

Horger Station, Angelina River

The average discharge of the Angelina River, a tributary of the Neches River, at the Horger Station for a 3.1-year period is 2,824,702 acre feet, while for the year 1948-1949, it was 1,594,530 acre feet, which is 55% of the average flow. The average silt load is 523 acre feet, while for 1948-1949, it was 180 acre feet, which is 34% of the average load. The total load for a 4.1-year period is 2,734,350 tons, or 1,793 acre feet of silt.

Cotulla Station, Nueces River

The average discharge of the Nueces River at the Cotulla Station for a 6.7-year period is 190,234 acre feet, while for the year 1948-1949, it was 277,520 acre feet, which is 146% of the average flow. The average silt load is 84 acre feet, while for 1948-1949, it was 75 acre feet, which is 89% of the average load. The total load for a 7.7-year period is 976,220 tons, or 639 acre feet of silt.

Three Rivers Station, Nueces River

The average discharge of the Nueces River at the Three Rivers Station for a 21-year period is 688,178 acre feet, while for 1948-1949 it was 780,920 acre feet, which is 113% of the average flow. The average silt load for the same period is 510 acre feet, while for the year 1948-1949, it was 500 acre feet, which is 98% of the average load. The total silt load for a 22-year period is 17,085,340 tons, or 11,204 acre feet of silt. This is also one of the long, continuous silt records.

Logansport, La. Station, Sabine River

The average discharge of the Sabine River at the Logansport, La. Station for a 14.2-year period is 3,024,801 acre feet, while for the year 1948-1949 it was 1,882,220 acre feet, which is 62% of the average flow. The average silt load for the same period is 770 acre feet, while for 1948-1949, it was 255 acre feet, which is 33% of the average load. The total load for a 15.2-year period is 17,023,430 tons, or 11,159 acre feet of silt.

Goliad Station, San Antonio River

The average discharge of the San Antonio River at the Goliad Station for a 6.7-year period is 512,660 acre feet, while for the year 1948-1949, it was 403,390 acre feet, which is 79% of the average flow. The average silt load for the same period is 492 acre feet, while for 1948-1949, it was 440 acre feet or 89% of the average load. The total silt load for a 7.7-year period is 5,736,580 tons or 3,761 acre feet of silt.

Huffman Station, San Jacinto River

The average discharge of the San Jacinto River at Huffman (Sheldon Pumping Plant) Station near the lower end of the river for a 3.1-year period is 1,762,867 acre feet, while for the year 1948-1949, it was 374,450 acre feet, which is 21% of the average flow. The average silt load for the same period is 790 acre feet, while for the year 1948-1949, it was 246 acre feet, which is 31% of the average load. The total load for the 4.1-year period is 4,088,230 tons, or 2,681 acre feet of silt.

Humble Station, San Jacinto River

The average discharge of the West Fork of the San Jacinto River at the Humble Station for a 12.3-year period is 873,519 acre feet, while for the year 1948-1949, it was 201,420 acre feet, which is 23% of the average flow. The average silt load for the same period is 276 acre feet, while for 1948-1949, it was 131 acre feet, which is 47% of the average load. The total silt load for a 13.3-year period is 5,405,180 tons, or 3,539 acre feet of silt.

Romayor Station, Trinity River

The average discharge of the Trinity River at the Romayor Station for a 12.1-year period is 6,770,408 acre feet, while for the year 1948-1949, it was 4,029,430 acre feet, which is 60% of the average flow. The average silt load for the same period is 4,574 acre feet, while for the year 1948-1949, it was 2,238 acre feet, which is 49% of the average load. The total load for a 13.1-year period is 88,071,180 tons, or 57,771 acre feet of silt.

Lake Possum Kingdom

The average flow from Lake Possum Kingdom on the upper watershed area of the Brazos River through the outlet gates and turbines and over the spillway for a 6.7-year period is 507,022 acre feet, while for the year 1948-1949, it was 531,620 acre feet, which is 105% of the average flow. The average silt load by-passing the lake for the same period is 87 acre feet, while for the year 1948-1949, it was 40 acre feet, which is 46% of the average load. The total silt load by-passing the dam for a 7.7-year period is 956,840 tons, or 626 acre feet of silt. The Lake Possum Kingdom has a capacity of 750,000 acre feet of water. During the 7.7-year period 18,499 acre feet of suspended silt load entered Lake Possum Kingdom at the South Bend Station. During the same period 626 acre feet of silt, or 3.4%, by-passed the dam.

Lake Corpus Christi

The average flow from Lake Corpus Christi, located on the Nueces River, during a 6.7-year period is 665,515 acre feet, while for the year 1948-1949, it was 887,240 acre feet, which is 133% of the average

flow. The average silt load for the same period is 162 acre feet, while for 1948-1949 it was only 137 acre feet, which is 85% of the average flow. The total silt load for a 7.7-year period, including 1948-1949, that by-passed the dam is 1,216 acre feet. The capacity of Lake Corpus Christi is about 64,000 acre feet.

The silt load entering Lake Corpus Christi as obtained at the Three Rivers Station for a 7.7-year period is approximately 3,449 acre feet. The station is located about 30 miles from the upper portion of the lake. The watershed area between them is about 1,000 square miles. This area, however, contributes a very small amount of silt to the lake. The amount of silt being by-passed from the lake for the same 7.7-year period amounts to 1,863,010 tons, or 1,216 acre feet, and represents 35% of the amount entering the lake.

Lake Buchanan

The average flow from Lake Buchanan, located on the Colorado River, for a two-year period (record started October 1, 1947) is 570,085 acre feet. The capacity of the lake is 992,475 acre feet. The silt load by-passing the lake for the same period was 81,830 tons or 54 acre feet. The average discharge of the Colorado River into the lake at the San Saba Station for the 2-year period was 775,795 acre feet, and the silt load for the same period was 5,265 acre feet.

Lake Inks

The average flow from Lake Inks, which is located downstream and adjacent to Lake Buchanan, for a 6.2-year period is 685,194 acre feet, while for the year 1948-1949, it was 582,660 acre feet, which is 85% of the average flow. The average silt load by-passing the lake for the same period is 66 acre feet, while for 1948-1949 it was 18 acre feet, which is 27% of the average load. The capacity of Lake Inks is 16,200 acre feet. During the year 1948-1949 the silt load by-passing Lake Buchanan was 24 acre feet, while at Lake Inks, immediately below it, the silt load was 18 acre feet. The total amount of silt by-passing Lake Inks for a 7.2-year period is 642,650 tons or 423 acre feet.

Lake Austin

The average discharge of the Colorado River at the Montopolis Bridge Station, which is located about 4 miles downstream from Lake Austin, for an 8-year period, and since the completion of Tom Miller Dam in 1940, is 1,862,669 acre feet, while for the year 1948-1949, it was 878,750 acre feet, which is 47% of the average discharge. This flow was water released at various intervals from four lakes above the station, namely, Buchanan, Inks, Mansfield or Travis (Marshall Ford) and Austin. The average silt load by-passing the four lakes for the 8-year period is 220 acre feet, while for the year 1948-1949, it was 67 acre feet, which is 30% of the average load.

Cooperation

Some of the silt determinations were made possible through the splendid financial cooperation of several agencies in Texas who are interested in silt problems. Those cooperating agencies are the Brazos River Conservation and Reclamation District, the Lower Colorado River Authority, and the Water Departments of the Cities of Houston and Corpus Christi. The Water Resources Branch of the United States Geological Survey has also offered helpful and congenial cooperation in furnishing river discharge data and information.

Acknowledgements

Acknowledgements are due the silt sample collectors, some of whom have many years of continuous service, for their faithful performance of their duties in obtaining water samples every day of the year, to Mr. Ray Case for his good work in the cooperative silt laboratory, and to Mrs. Virginia Adcock for her excellent assistance in the office in computing, checking, compilation, and typing silt data.

SILT DATA

Brazos River Watershed
at
BELTON STATION ON LEON RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	10	0	0	0
November	0	0	0	0
December	60	0	0	0
1949				
January	2,040	130	0	.005
February	4,960	260	0	.004
March	63,850	184,130	121	.212
April	84,290	224,050	147	.195
May	74,740	153,150	100	.151
June	54,940	90,900	60	.122
July	11,020	1,980	1	.013
August	1,800	70	0	.003
September	870	150	0	.013
Totals	298,580	654,820	429	

U. S. G. S. yearly discharge in acre-feet	298,600
Total silt for year in acre-feet	429
Acre-feet of silt per year per square mile of contributing watershed	.121
Average percent of silt by weight for year	.161
Drainage area in square miles (net)	3,547

SUMMARY OF SILT DATA

for

Brazos River Watershed

Stream: LEON
Station: BELTON (Samples taken from Highway Bridge on State Hwy. 317) 2/
Sampler: N. H. Hander

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
Sept., 1945 1/	10,380	26,320	17	.186
1945-46	663,960	1,187,070	779	.131
1946-47	362,480	280,030	216	.057
1947-48	122,110	118,520	77	.071
1948-49	298,580	654,820	429	.161
TOTALS	1,457,510	2,266,760	1,518	

For period of 4.083 years

Average discharge in acre-feet per year	366,970
Average acre-feet of silt per year	372
Average acre-feet of silt per year per square mile of contributing watershed	.105
Average tons of silt per year	555,170
Average percent of silt by weight	.111
Drainage area in square miles (net)	3,547

1/ One month record. Station was established September 1, 1945.
2/ Prior to October 1, 1945 samples were taken from inlet to pumping plant north of Belton -- located about ¼ mile upstream from bridge on U. S. Highway No. 81.

SILT DATA

Brazos River Watershed
at
EASTERLY STATION ON NAVASOTA RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	100	0	0	0
November	190	50	0	.018
December	860	290	0	.025
1949				
January	28,430	14,960	10	.039
February	6,600	4,660	3	.052
March	42,030	52,500	34	.092
April	12,800	5,610	4	.032
May	2,510	1,250	1	.037
June	9,580	8,170	5	.063
July	1,880	690	0	.027
August	260	30	0	.008
September	730	800	1	.081
Totals	105,970	89,010	58	

U. S. G. S. yearly discharge in acre-feet	105,900
Total silt for year in acre-feet	58
Acre-feet of silt per year per square mile of contributing watershed	.061
Average percent of silt by weight for year	.062
Drainage area in square miles (net)	949

SUMMARY OF SILT DATA

for

Brazos River Watershed

Stream: NAVASOTA
Station: EASTERLY
Sampler: Goree King

(Samples were taken from bridge on U. S. Highway No. 79)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	199,750	142,600	94	.052
1942-43	84,820	59,600	39	.052
1943-44	592,670	889,340	584	.110
1944-45	556,120	607,980	400	.080
1945-46	617,980	513,050	337	.061
1946-47	441,190	193,110	127	.032
1947-48	99,160	79,980	53	.059
1948-49	105,970	89,010	58	.062
TOTALS	2,697,660	2,574,670	1,692	

For period of 7.748 years

Average discharge in acre-feet per year	348,175
Average acre-feet of silt per year	218
Average acre-feet of silt per year per square mile of contributing watershed	.230
Average tons of silt per year	332,301
Average percent of silt by weight	.070
Drainage area in square miles (net)	949

1/ Station was established January 1, 1942.

SILT DATA

Brazos River Watershed
at
SOUTH BEND STATION ON BRAZOS RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	14,980	150,180	99	.736
November	11,300	277,350	182	1.803
December	820	240	0	.022
1949				
January	7,620	8,510	6	.082
February	10,390	24,420	16	.173
March	5,440	6,250	4	.084
April	9,350	12,920	8	.102
May	212,300	2,644,780	1,735	.915
June	143,090	1,928,260	1,265	.990
July	8,720	9,700	6	.082
August	12,650	20,160	13	.117
September	78,060	1,110,650	728	1.045
Totals	514,710	6,193,420	4,062	

U. S. G. S. yearly discharge in acre-feet	514,700
Total silt for year in acre-feet	4,062
Acre-feet of silt per year per square mile of contributing watershed	.329
Average percent of silt by weight for year	.884
Drainage area in square miles (net)	12,360

SUMMARY OF SILT DATA

for

Brazos River Watershed

Stream: BRAZOS
Station: SOUTH BEND (Samples taken from bridge on State Highway No. 67)
Sampler: O. W. Hill

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	672,230	4,581,930	3,005	.501
1942-43	491,060	3,846,100	2,523	.575
1943-44	171,360	1,071,620	703	.459
1944-45	394,460	2,258,250	1,482	.421
1945-46	363,890	3,116,920	2,044	.629
1946-47	747,030	4,414,900	2,897	.434
1947-48	391,140	2,718,220	1,783	.510
1948-49	514,710	6,193,420	4,062	.884
TOTALS	3,745,880	28,201,360	18,499	

For period of 7.710 years

Average discharge in acre-feet per year	485,847
Average acre-feet of silt per year	2,399
Average acre-feet of silt per year per square mile of contributing watershed	.194
Average tons of silt per year	3,657,763
Average percent of silt by weight	.553
Drainage area in square miles (net)	12,360

1/ Station was established January 15, 1942.

SILT DATA

Brazos River Watershed
at
POSSUM KINGDOM DAM STATION ON BRAZOS RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	10,390	380	0	.003
November	11,120	1,150	1	.008
December	11,040	630	0	.004
1949				
January	14,230	1,300	1	.007
February	14,780	1,140	1	.006
March	8,040	1,260	1	.012
April	4,880	520	0	.008
May	85,930	17,260	11	.015
June	191,740	20,760	14	.008
July	46,710	4,460	3	.007
August	67,780	6,830	4	.007
September	64,980	5,780	4	.007
Totals	531,620	61,470	40	

Yearly discharge in acre-feet	531,620 1/
Total silt for year in acre-feet	40
Acre-feet of silt per year per square mile of contributing watershed	----
Average percent of silt by weight for year	.008
Drainage area in square miles (net)	----

1/ Discharge figures for this station obtained from Brazos River Conservation and Reclamation District

SUMMARY OF SILT DATA

for

Brazos River Watershed

Stream: BRAZOS
Station: POSSUM KINGDOM DAM (Samples taken in tailrace and over spillway)
Sampler: J. P. Cochran

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	588,030	55,070	36	.007
1942-43	851,290	625,770	410	.054
1943-44	92,040	15,590	10	.012
1944-45	307,410	51,350	32	.012
1945-46	293,110	41,250	27	.010
1946-47	946,860	75,280	49	.006
1947-48	323,380	31,060	22	.007
1948-49	531,620	61,470	40	.008
TOTALS	3,933,740	956,840	626	

For period of 7.710 years

Average discharge in acre-feet per year	510,213
Average acre-feet of silt per year	81
Average acre-feet of silt per year per square mile of contributing watershed	----
Average tons of silt per year	124,104
Average percent of silt by weight	.018
Drainage area in square miles (net)	----

1/ Station was established January 15, 1942.

SILT DATA

Brazos River Watershed
at
RICHMOND STATION ON BRAZOS RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	39,400	1,720	1	.003
November	34,420	3,040	2	.006
December	37,140	2,180	1	.004
1949				
January	77,590	52,290	34	.050
February	241,860	654,020	429	.199
March	486,090	2,418,840	1,587	.366
April	767,780	4,915,200	3,224	.470
May	837,740	4,829,640	3,168	.424
June	490,630	1,262,810	828	.189
July	215,270	298,590	196	.102
August	62,090	5,620	4	.007
September	72,840	12,550	8	.013
Totals	3,362,850	14,456,500	9,482	

U. S. G. S. yearly discharge in acre-feet	3,363,000
Total silt for year in acre-feet	9,482
Acre-feet of silt per year per square mile of contributing watershed	.272
Average percent of silt by weight for year	.316
Drainage area in square miles (net)	34,810

SUMMARY OF SILT DATA

for

Brazos River Watershed

Stream: BRAZOS
Station: RICHMOND (Samples taken from bridge on U. S. Highway No. 90)
Sampler: S. J. Butler

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1923-24 1/	494,900	714,220	468	.106
1924-25	1,237,300	12,676,710	8,314	.753
1925-26	8,762,800	44,939,350	29,476	.377
1926-27	5,562,600	34,377,320	21,739	.454
1927-28	3,318,400	28,163,890	18,472	.623
1928-29	6,000,000	32,284,200	21,174	.395
1929-30	5,218,900	38,686,330	25,373	.545
1930-31	5,639,000	27,766,660	18,212	.362
1931-32 2-3/	8,041,000	63,649,510	41,749	.582
1932-33	2,563,100	15,175,520	9,954	.435
1933-34	3,372,670	23,318,780	15,294	.508
1934-35	7,334,480	63,472,990	41,633	.636
1935-36	6,031,540	40,330,500	26,453	.491
1936-37	5,405,790	25,531,710	16,747	.347
1937-38	7,203,600	55,656,280	36,544	.568
1938-39	1,966,110	14,742,470	9,668	.551
1939-40	3,161,120	23,679,220	15,531	.550
1940-41	16,124,370	97,306,510	63,824	.443
1941-42	8,522,910	71,490,110	46,891	.616
1942-43	3,255,310	11,426,360	7,496	.258
1943-44	7,626,500	46,735,630	30,654	.450
1944-45	9,804,730	57,254,020	37,555	.429
1945-46	7,399,590	35,484,230	23,275	.352
1946-47	6,345,770	21,011,530	13,783	.243
1947-48	1,950,620	3,950,720	2,591	.149
1948-49	3,362,850	14,456,500	9,482	.316
TOTALS	145,705,960	904,281,270	592,352	

For period of 25.306 years

Average discharge in acre-feet per year	5,757,763
Average acre-feet of silt per year	23,408
Average acre-feet of silt per year per square mile of contributing watershed	.672
Average tons of silt per year	35,733,868
Average percent of silt by weight	.456
Drainage area in square miles (net)	34,810

1/ Station was established at Rosenberg, June 11, 1924.
2/ Station was discontinued at Rosenberg, April 12, 1932.
3/ Station was established at Richmond, April 13, 1932.

SILT DATA

Colorado River Watershed
at
LLANO STATION ON LLANO RIVER
for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	5,920	310	0	.004
November	5,280	200	0	.003
December	5,610	270	0	.004
1949				
January	7,280	470	0	.005
February	36,280	38,470	25	.078
March	18,530	1,610	1	.006
April	40,000	28,570	19	.052
May	21,550	5,750	4	.020
June	15,740	2,120	1	.010
July	9,940	690	0	.005
August	9,810	990	1	.007
September	11,660	2,810	2	.018
Totals	187,600	82,260	53	

U. S. G. S. yearly discharge in acre-feet	187,600
Total silt for year in acre-feet	53
Acre-feet of silt per year per square mile of contributing watershed	.013
Average percent of silt by weight for year	.032
Drainage area in square miles (net)	4,000

SUMMARY OF SILT DATA

for

Colorado River Watershed

Stream: LLANO
Station: LLANO
Sampler: Mrs. Tracy M. Ward

(Samples were taken at U. S. Gaging Station ½ mile downstream from bridge on State Highway No. 16)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	65,990	252,700	166	.281
1942-43	235,470	381,560	250	.119
1943-44	196,070	120,450	79	.045
1944-45	156,920	90,120	60	.042
1945-46	142,740	249,740	164	.129
1946-47	141,550	28,750	18	.015
1947-48	327,420	1,471,400	965	.330
1948-49	187,600	82,260	53	.032
TOTALS	1,453,760	2,676,980	1,755	

For period of 7.167 years

Average discharge in acre-feet per year	202,841
Average acre-feet of silt per year	245
Average acre-feet of silt per year per square mile of contributing watershed	.061
Average tons of silt per year	373,515
Average percent of silt by weight	.135
Drainage area in square miles (net)	4,000

1/ Station was established August 1, 1942.

SILT DATA

Colorado River Watershed
at
JOHNSON CITY STATION ON PEDERNALES RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	1,130	890	1	.058
November	580	30	0	.004
December	870	70	0	.006
1949				
January	1,130	90	0	.006
February	4,280	6,590	4	.113
March	3,320	1,510	1	.033
April	12,000	14,060	9	.086
May	4,090	530	0	.010
June	6,570	27,550	18	.308
July	1,140	170	0	.011
August	860	30	0	.003
September	1,690	3,040	2	.132
Totals	37,660	54,560	35	

U. S. G. S. yearly discharge in acre-feet ----------	37,660
Total silt for year in acre-feet ----------	35
Acre-feet of silt per year per square mile of contributing watershed ----------	.037
Average percent of silt by weight for year ----------	.106
Drainage area in square miles (net) ----------	947

SUMMARY OF SILT DATA

for

Colorado River Watershed

Stream: PEDERNALES
Station: JOHNSON CITY
Sampler: John W. Grisham

(Samples were taken from highway bridge on U.S. Hwy. 281, about 1½ miles north of Johnson City)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	22,630	107,030	70	.347
1942-43	79,850	150,740	99	.139
1943-44	167,700	724,550	476	.317
1944-45	187,000	191,740	126	.075
1945-46	94,140	132,430	88	.103
1946-47	128,460	107,670	71	.062
1947-48	31,690	42,340	27	.098
1948-49	37,660	54,560	35	.106
TOTALS	749,130	1,511,060	992	

For period of 7.167 years

Average discharge in acre-feet per year	104,525
Average acre-feet of silt per year	138
Average acre-feet of silt per year per square mile of contributing watershed	.146
Average tons of silt per year	210,836
Average percent of silt by weight	.148
Drainage area in square miles (net)	947

1/ Station was established August 1, 1942.

SILT DATA

Colorado River Watershed
at
SAN SABA STATION ON COLORADO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	15,530	1,200	1	.006
November	6,230	370	0	.004
December	5,950	210	0	.003
1949				
January	13,220	2,060	1	.011
February	19,790	13,790	9	.051
March	17,980	47,840	31	.195
April	86,590	529,330	347	.449
May	345,010	1,943,220	1,275	.414
June	307,780	1,692,670	1,110	.404
July	89,000	394,140	259	.325
August	17,380	2,230	1	.009
September	22,930	14,360	9	.046
Totals	947,390	4,641,420	3,043	

U. S. G. S. yearly discharge in acre-feet	947,400
Total silt for year in acre-feet	3,043
Acre-feet of silt per year per square mile of contributing watershed	.163
Average percent of silt by weight for year	.360
Drainage area in square miles (net)	18,700 1/

1/ Revised by U.S.G.S.

SUMMARY OF SILT DATA

for

Colorado River Watershed

Stream: COLORADO
Station: NEAR SAN SABA
Sampler: Robert A. Broyles

(Samples were taken from Red Bluff bridge about midway between San Saba and Lometa) 2/

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1929-30 1/	24,000	143,140	94	.439
1930-31	1,373,750	5,136,520	3,369	.275
1931-32	2,223,900	9,934,850	6,516	.328
1932-33	475,300	1,303,620	855	.201
1933-34	504,380	2,121,550	1,391	.309
1934-35	2,564,290	14,423,520	9,459	.413
1935-36	2,276,400	7,520,550	4,933	.243
1936-37	1,197,100	2,688,230	1,764	.165
1937-38	2,809,340	8,923,940	5,853	.233
1938-39	819,430	3,709,100	2,432	.333
1939-40	773,690	3,191,810	2,094	.303
1940-41	2,052,980	8,613,430	5,650	.308
1941-42	1,285,920	4,571,140	2,998	.261
1942-43	475,090	703,520	461	.109
1943-44	592,790	2,129,300	1,397	.264
1944-45	870,370	2,655,490	1,743	.224
1945-46	416,390	1,511,040	992	.267
1946-47	517,540	2,588,150	1,696	.367
1947-48	604,200	3,389,580	2,222	.412
1948-49	947,390	4,641,420	3,043	.360
TOTALS	22,804,250	89,899,900	58,962	

For period of 19.055 years

Average discharge in acre-feet per year	1,196,759
Average acre-feet of silt per year	3,094
Average acre-feet of silt per year per square mile of contributing watershed	.165
Average tons of silt per year	4,717,917
Average percent of silt by weight	.290
Drainage area in square miles (net)	18,700 3/

1/ Station was established September 11, 1930.
2/ Water samples were discontinued at old Red Bluff bridge and started one-half mile upstream at the new Red Bluff bridge on May 24, 1940.
3/ Revised by U.S.G.S.

SILT DATA

Colorado River Watershed
at
INKS DAM STATION ON COLORADO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	25,240	680	1	.002
November	18,320	500	0	.002
December	39,880	1,410	1	.003
1949				
January	33,740	2,060	1	.004
February	26,750	2,120	1	.006
March	4,650	330	0	.005
April	14,120	1,730	1	.009
May	134,700	8,160	5	.004
June	87,760	4,300	3	.004
July	73,940	3,670	2	.004
August	54,540	2,180	1	.003
September	69,020	3,030	2	.003
Totals	582,660	30,170	18	

Yearly discharge in acre-feet	582,660 1/
Total silt for year in acre-feet	18
Acre-feet of silt per year per square mile of contributing watershed	----
Average percent of silt by weight for year	.004
Drainage area in square miles (net)	----

1/ Discharge figures for this station obtained from Lower Colorado River Authority

SUMMARY OF SILT DATA

for

Colorado River Watershed

Stream: COLORADO
Station: INKS DAM (Samples were taken from tailrace)
Sampler: Lloyd Myers

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	285,200	41,270	27	.011
1942-43	662,460	67,090	44	.007
1943-44	768,040	127,980	84	.012
1944-45	751,950	157,540	104	.015
1945-46	678,460	134,030	88	.015
1946-47	498,980	27,870	20	.004
1947-48	580,500	56,700	38	.007
1948-49	582,660	30,170	18	.004
TOTALS	4,808,250	642,650	423	

For period of 7.167 years

Average discharge in acre-feet per year	670,887
Average acre-feet of silt per year	59
Average acre-feet of silt per year per square mile of contributing watershed	----
Average tons of silt per year	89,668
Average percent of silt by weight	.010
Drainage area in square miles (net)	----

1/ Station was established August 1, 1942.

SILT DATA

Colorado River Watershed
at
BUCHANAN DAM STATION ON COLORADO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	24,900	1,000	1	.003
November	18,240	530	0	.002
December	37,000	2,000	1	.004
1949				
January	32,040	2,600	2	.006
February	24,880	1,050	1	.003
March	1,150	120	0	.007
April	19,160	2,680	2	.001
May	129,850	5,700	4	.003
June	84,050	4,530	3	.004
July	71,570	4,720	3	.005
August	54,230	6,190	4	.008
September	66,660	4,180	3	.005
Totals	563,730	35,300	24	

Yearly discharge in acre-feet	563,730 1/
Total silt for year in acre-feet	24
Acre-feet of silt per year per square mile of contributing watershed	----
Average percent of silt by weight for year	.005
Drainage area in square miles (net)	----

1/ Discharge figures for this station obtained from Lower Colorado River Authority

SUMMARY OF SILT DATA

for

Lavaca River Watershed

Stream: LAVACA
Station: EDNA
Sampler: Mrs. Ida Berryhill

(Samples taken from bridge on U. S. Highway No. 59 between Victoria and Edna)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1944-45 1/	980	570	0	----
1945-46	266,330	327,240	215	.090
1946-47	250,340	192,850	126	.057
1947-48	114,240	98,200	66	.063
1948-49	105,870	205,400	134	.143
TOTALS	737,760	824,260	541	

For period of 4.083 years

Average discharge in acre-feet per year	180,691
Average acre-feet of silt per year	133
Average acre-feet of silt per year per square mile of contributing watershed	.150
Average tons of silt per year	201,876
Average percent of silt by weight	.082
Drainage area in square miles (net)	887

1/ Station established September 1, 1945.

SILT DATA

Neches River Watershed
at
HORGER STATION ON ANGELINA RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	5,400	280	0	.004
November	32,850	9,860	6	.022
December	44,520	3,130	2	.005
1949				
January	202,450	45,460	30	.016
February	284,670	25,590	17	.007
March	349,670	90,310	59	.019
April	310,080	44,800	29	.011
May	154,020	20,370	13	.010
June	81,060	30,670	20	.028
July	33,920	2,610	2	.006
August	28,140	1,720	1	.004
September	17,750	1,880	1	.008
Totals	1,544,530	276,680	180	

U. S. G. S. yearly discharge in acre-feet	1,545,000
Total silt for year in acre-feet	180
Acre-feet of silt per year per square mile of contributing watershed	.052
Average percent of silt by weight for year	.013
Drainage area in square miles (net)	3,435

SUMMARY OF SILT DATA

for

Neches River Watershed

Stream: ANGELINA
Station: HORGER
Sampler: D. W. Moye

(Samples taken from bridge on State Highway No. 63 between Zavalla and Jasper)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1944-45 1/	19,470	11,020	7	.042
1945-46	3,869,300	1,826,050	1,198	.035
1946-47	3,200,750	393,530	259	.009
1947-48	1,619,040	227,070	149	.010
1948-49	1,544,530	276,680	180	.013
TOTALS	10,253,090	2,734,350	1,793	

For period of 4.083 years

Average discharge in acre-feet per year	2,511,165
Average acre-feet of silt per year	439
Average acre-feet of silt per year per square mile of contributing watershed	.128
Average tons of silt per year	669,691
Average percent of silt by weight	.020
Drainage area in square miles (net)	3,435

1/ Station established September 1, 1945.

SILT DATA

Neches River Watershed
at
ROCKLAND STATION ON NECHES RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	2,300	180	0	.006
November	16,300	4,950	3	.022
December	23,000	1,270	1	.004
1949				
January	114,900	24,850	16	.016
February	198,030	26,240	17	.010
March	326,980	69,230	45	.016
April	259,640	29,490	19	.008
May	140,160	13,570	9	.007
June	48,730	10,240	7	.015
July	13,430	1,030	1	.006
August	16,540	2,020	1	.009
September	12,860	750	0	.004
Totals	1,172,870	183,820	119	

U. S. G. S. yearly discharge in acre-feet ----------	1,173,000
Total silt for year in acre-feet ----------	119
Acre-feet of silt per year per square mile of contributing watershed ----------	.034
Average percent of silt by weight for year ----------	.012
Drainage area in square miles (net) ----------	3,539

SUMMARY OF SILT DATA

for

Neches River Watershed

Stream: NECHES
Station: ROCKLAND
Sampler: George W. Jones

(Samples were taken from bridge on U. S. Highway 69 between Woodville and Lufkin)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1929-30 1/	10,620	290	0	.002
1930-31	1,490,250	229,220	151	.011
1931-32	2,560,930	193,940	128	.006
1932-33	1,395,940	144,700	95	.008
1933-34	1,552,630	174,070	112	.008
1934-35	2,601,910	297,100	194	.008
1935-36	1,040,600	140,280	91	.010
1936-37	928,420	110,180	71	.009
1937-38	1,400,070	225,940	147	.012
1938-39	854,380	140,590	91	.012
1939-40	1,097,590	227,590	149	.015
1940-41	3,578,370	586,140	384	.012
1941-42	2,522,390	550,920	361	.016
1942-43	748,520	316,090	207	.031
1943-44	3,230,410	1,865,580	1,223	.042
1944-45	3,396,060	1,967,220	1,290	.043
1945-46	3,534,920	1,285,240	845	.027
1946-47	3,255,520	379,210	249	.009
1947-48	1,250,360	118,760	77	.007
1948-49	1,172,870	183,820	119	.012
TOTALS	37,622,760	9,136,880	5,984	

For period of 19.148 years

Average discharge in acre-feet per year	1,964,840
Average acre-feet of silt per year	313
Average acre-feet of silt per year per square mile of contributing watershed	.088
Average tons of silt per year	477,172
Average percent of silt by weight	.018
Drainage area in square miles (net)	3,539

1/ Station was established August 8, 1930.

SILT DATA

Nueces River Watershed
at
COTULLA STATION ON NUECES RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	6,070	2,270	1	.027
November	350	10	0	.002
December	0	0	0	0
1949				
January	0	0	0	0
February	8,880	7,790	5	.064
March	144,550	52,930	35	.027
April	44,060	28,620	19	.048
May	9,090	1,160	1	.009
June	44,680	17,420	11	.029
July	3,180	210	0	.005
August	16,230	5,210	3	.024
September	430	20	0	.003
Totals	277,520	115,640	75	

U. S. G. S. yearly discharge in acre-feet	277,600
Total silt for year in acre-feet	115,640
Acre-feet of silt per year per square mile of contributing watershed	.014
Average percent of silt by weight for year	.031
Drainage area in square miles (net)	5,260

SUMMARY OF SILT DATA

for

Nueces River Watershed

Stream: NUECES
Station: COTULLA (Samples taken from highway bridge in Cotulla)
Sampler: Joe G. Jennings

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	141,380	64,130	42	.033
1942-43	64,240	33,270	22	.038
1943-44	482,520	367,860	241	.056
1944-45	82,440	65,460	43	.058
1945-46	347,610	284,210	186	.060
1946-47	92,610	16,550	11	.013
1947-48	72,900	29,100	19	.029
1948-49	277,520	115,640	75	.031
TOTALS	1,561,220	976,220	639	

For period of 7.748 years

Average discharge in acre-feet per year	201,500
Average acre-feet of silt per year	82
Average acre-feet of silt per year per square mile of contributing watershed	.016
Average tons of silt per year	125,996
Average percent of silt by weight	.046
Drainage area in square miles (net)	5,260

1/ Station was established January 1, 1942.

SILT DATA

Nueces River Watershed
at
THREE RIVERS STATION ON NUECES RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	30,480	69,030	45	.166
November	3,020	570	0	.014
December	620	40	0	.005
1949				
January	720	70	0	.007
February	13,850	44,200	29	.234
March	140,510	84,460	55	.044
April	210,310	213,260	140	.074
May	143,500	70,660	46	.036
June	114,570	140,450	92	.090
July	80,910	97,720	64	.089
August	38,500	43,240	28	.083
September	3,930	1,890	1	.035
Totals	780,920	765,590	500	

U. S. G. S. yearly discharge in acre-feet	780,900
Total silt for year in acre-feet	500
Acre-feet of silt per year per square mile of contributing watershed	.032
Average percent of silt by weight for year	.072
Drainage area in square miles (net)	15,600

SUMMARY OF SILT DATA

for

Nueces River Watershed

Stream: NUECES
Station: NEAR THREE RIVERS
Sampler: Carl Franze

(Samples were taken 2 mi. south of Three Rivers from railroad bridge, except at extreme low stage when samples were taken at low dam)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1927-28 1/	318,930	617,920	405	.142
1928-29	741,300	1,303,600	855	.129
1929-30	596,510	721,440	473	.089
1930-31	455,880	443,420	291	.071
1931-32	1,006,200	581,880	381	.042
1932-33	287,120	275,050	179	.070
1933-34	253,800	668,320	438	.193
1934-35	2,547,150	2,383,630	1,565	.069
1935-36	768,200	752,320	494	.072
1936-37	318,050	142,270	94	.033
1937-38	479,730	771,540	506	.118
1938-39	306,600	450,960	297	.108
1939-40	840,190	1,035,600	679	.091
1940-41	1,300,860	1,635,320	1,073	.092
1941-42	1,107,790	987,340	648	.065
1942-43	260,470	323,990	213	.091
1943-44	700,090	668,660	439	.070
1944-45	297,070	590,010	387	.146
1945-46	927,400	1,134,770	744	.090
1946-47	810,070	578,310	379	.052
1947-48	128,330	253,400	164	.145
1948-49	780,920	765,590	500	.072
TOTALS	15,232,660	17,085,340	11,204	

For period of 22.000 years

Average discharge in acre-feet per year	692,394
Average acre-feet of silt per year	509
Average acre-feet of silt per year per square mile of contributing watershed	.033
Average tons of silt per year	776,606
Average percent of silt by weight	.082
Drainage area in square miles (net)	15,600

1/ Station was established October 1, 1927.

SILT DATA

Nueces River Watershed
at
CORPUS CHRISTI DAM STATION ON NUECES RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	31,860	3,610	2	.008
November	7,600	410	0	.004
December	1,960	170	0	.006
1949				
January	2,450	290	0	.009
February	2,700	240	0	.007
March	145,800	22,780	15	.011
April	200,200	102,270	67	.038
May	244,500	50,100	33	.015
June	108,400	12,930	8	.009
July	97,800	15,930	10	.012
August	39,980	3,800	2	.007
September	3,990	240	0	.004
Totals	887,240	212,770	137	

U. S. G. S. yearly discharge in acre-feet	887,200
Total silt for year in acre-feet	137
Acre-feet of silt per year per square mile of contributing watershed	----
Average percent of silt by weight for year	.018
Drainage area in square miles (net)	----

SUMMARY OF SILT DATA

for

Nueces River Watershed

Stream: NUECES
Station: CORPUS CHRISTI DAM (Samples taken below and adjacent to outlet gates)
Sampler: Eddie Wright

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	1,202,820	546,500	358	.033
1942-43	249,640	44,790	29	.013
1943-44	740,310	323,550	212	.032
1944-45	273,820	125,070	81	.034
1945-46	936,910	350,430	231	.027
1946-47	921,510	244,730	160	.020
1947-48	107,320	15,170	8	.010
1948-49	887,240	212,770	137	.018
TOTALS	5,319,570	1,863,010	1,216	

For period of 7.660 years

Average discharge in acre-feet per year	694,461
Average acre-feet of silt per year	159
Average acre-feet of silt per year per square mile of contributing watershed	-----
Average tons of silt per year	243,213
Average percent of silt by weight	.026
Drainage area in square miles (net)	-----

1/ Station was established February 2, 1942.

SILT DATA

Sabine River Watershed
at
LOGANSPORT STATION ON SABINE RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	5,650	240	0	.003
November	21,430	2,630	2	.009
December	33,690	2,880	2	.006
1949				
January	191,680	38,380	25	.015
February	355,150	66,240	43	.014
March	439,230	115,660	76	.019
April	268,310	41,810	27	.011
May	220,160	41,320	26	.014
June	101,980	43,080	28	.031
July	121,780	21,770	14	.013
August	90,090	16,400	11	.013
September	33,070	1,110	1	.002
Totals	1,882,220	391,520	255	

U. S. G. S. yearly discharge in acre-feet	1,882,000
Total silt for year in acre-feet	255
Acre-feet of silt per year per square mile of contributing watershed	.052
Average percent of silt by weight for year	.015
Drainage area in square miles (net)	4,858

SUMMARY OF SILT DATA

for

Sabine River Watershed

Stream: SABINE
Station: LOGANSPORT, LA.
Sampler: R. E. Davenport

(Samples were taken from U.S. Highway 84 bridge in downtown Logansport, La.)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1932-33 1/	2,545,700	503,740	330	.015
1933-34 2/	69,200	5,780	4	.006
1934-35 3/	13,910	400	0	.002
1935-36	841,410	137,020	89	.012
1936-37	1,689,660	270,430	176	.012
1937-38	3,155,000	537,990	353	.013
1938-39	1,325,580	291,500	190	.016
1939-40	1,302,990	458,990	301	.026
1940-41	4,876,180	825,330	541	.012
1941-42	3,817,160	1,439,880	944	.028
1942-43	1,716,620	999,370	655	.043
1943-44	4,193,070	3,002,050	1,969	.053
1944-45	5,996,730	4,502,820	2,953	.055
1945-46	5,137,000	2,650,320	1,738	.038
1946-47	3,318,320	553,900	363	.012
1947-48	2,820,560	452,390	298	.012
1948-49	1,882,220	391,520	255	.015
TOTALS	44,701,310	17,023,430	11,159	

For period of 15.156 years

Average discharge in acre-feet per year	2,949,413
Average acre-feet of silt per year	736
Average acre-feet of silt per year per square mile of contributing watershed	.152
Average tons of silt per year	1,123,214
Average percent of silt by weight	.028
Drainage area in square miles (net)	4,858

1/ Station was established December 1, 1932.
2/ Station was discontinued December 27, 1933.
3/ Station was reestablished September 1, 1935.

SILT DATA

San Antonio River Watershed
at
GOLIAD STATION ON SAN ANTONIO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	20,270	50,710	33	.184
November	9,960	1,100	1	.008
December	10,020	560	0	.004
1949				
January	11,490	1,510	1	.010
February	16,580	41,120	27	.182
March	16,240	10,600	7	.048
April	136,150	316,460	208	.171
May	44,070	63,390	42	.106
June	60,090	105,470	69	.129
July	47,870	49,110	32	.075
August	18,190	22,250	15	.090
September	12,460	7,180	5	.042
Totals	403,390	669,460	440	

U. S. G. S. yearly discharge in acre-feet	403,300
Total silt for year in acre-feet	440
Acre-feet of silt per year per square mile of contributing watershed	.112
Average percent of silt by weight for year	.122
Drainage area in square miles (net)	3,918

SUMMARY OF SILT DATA

for

San Antonio River Watershed

Stream: SAN ANTONIO
Station: GOLIAD (Samples were taken near Goliad from bridge on State Hwy. No. 29)
Sampler: Polo Perez

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1941-42 1/	699,580	848,340	556	.089
1942-43	453,180	581,740	382	.094
1943-44	365,060	725,630	475	.146
1944-45	352,460	567,440	371	.118
1945-46	663,080	1,387,180	910	.154
1946-47	699,560	719,770	472	.076
1947-48	226,510	237,020	155	.077
1948-49	403,390	669,460	440	.122
TOTALS	3,862,820	5,736,580	3,761	

For period of 7.748 years

Average discharge in acre-feet per year	498,557
Average acre-feet of silt per year	485
Average acre-feet of silt per year per square mile of contributing watershed	.124
Average tons of silt per year	740,395
Average percent of silt by weight	.109
Drainage area in square miles (net)	3,918

1/ Station was established January 1, 1942.

SILT DATA

San Jacinto River Watershed
at
HUFFMAN STATION ON SAN JACINTO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	5,030	1,950	1	.028
November	7,880	2,070	1	.019
December	8,000	570	0	.005
1949				
January	31,250	8,920	6	.021
February	156,090	88,150	58	.041
March	329,800	182,290	120	.041
April	278,850	72,670	48	.019
May	41,760	4,850	3	.009
June	19,430	1,820	1	.007
July	28,730	7,200	5	.018
August	17,470	2,960	2	.012
September	12,750	1,000	1	.006
Totals	937,040	374,450	246	

U. S. G. S. yearly discharge in acre-feet	936,900
Total silt for year in acre-feet	374,450
Acre-feet of silt per year per square mile of contributing watershed	.088
Average percent of silt by weight for year	.029
Drainage area in square miles (net)	2,791

SUMMARY OF SILT DATA

for

San Jacinto River Watershed

Stream: SAN JACINTO
Station: HUFFMAN (Samples were taken at Sheldon Pumping Plant, City of Houston)
Sampler: Phil Baker Scott

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1944-45 1/	221,940	163,730	107	.054
1945-46	2,246,700	1,345,020	881	.044
1946-47	2,466,540	2,096,730	1,377	.062
1947-48	499,740	108,300	70	.016
1948-49	937,040	374,450	246	.029
TOTALS	6,371,960	4,088,230	2,681	

For period of 4.083 years

Average discharge in acre-feet per year	1,560,607
Average acre-feet of silt per year	657
Average acre-feet of silt per year per square mile of contributing watershed	.235
Average tons of silt per year	1,001,280
Average percent of silt by weight	.047
Drainage area in square miles (net)	2,791

1/ Station established September 1, 1945.

SILT DATA

San Jacinto River Watershed
at
HUMBLE STATION ON SAN JACINTO RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	2,110	200	0	.007
November	3,900	360	0	.007
December	3,750	300	0	.006
1949				
January	18,120	7,350	5	.030
February	90,220	39,050	26	.032
March	161,310	82,540	54	.038
April	157,720	65,420	43	.030
May	25,700	3,220	2	.009
June	7,640	760	0	.007
July	14,230	1,150	1	.006
August	9,770	600	0	.005
September	7,920	470	0	.004
Totals	502,390	201,420	131	

U. S. G. S. yearly discharge in acre-feet ----------	502,400
Total silt for year in acre-feet ----------	131
Acre-feet of silt per year per square mile of contributing watershed ----------	.072
Average percent of silt by weight for year ----------	.029
Drainage area in square miles (net) ----------	1,811

SUMMARY OF SILT DATA

for

San Jacinto River Watershed

Stream: WEST FORK OF SAN JACINTO
Station: NEAR HUMBLE
Sampler: L. C. Clark

(Samples were taken from highway bridge about 2 mi. north of Humble)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1932-33 1/	253,210	144,800	93	.042
1933-34 2/	7,450	520	0	.005
1936-37 3/	12,450	1,370	1	.008
1937-38	491,940	150,650	97	.022
1938-39	319,500	120,660	77	.028
1939-40	282,680	162,070	105	.042
1940-41	2,566,090	896,050	588	.026
1941-42	909,180	373,670	245	.030
1942-43	545,760	290,820	191	.039
1943-44	881,200	660,570	434	.055
1944-45	1,577,380	1,241,490	815	.058
1945-46	1,320,330	774,810	509	.043
1946-47	1,325,000	345,140	228	.019
1947-48	284,340	41,140	25	.011
1948-49	502,390	201,420	131	.029
TOTALS	11,278,900	5,405,180	3,539	

For period of 13.337 years

Average discharge in acre-feet per year	845,685
Average acre-feet of silt per year	265
Average acre-feet of silt per year per square mile of contributing watershed	.146
Average tons of silt per year	405,277
Average percent of silt by weight	.035
Drainage area in square miles (net)	1,811

1/ Station established December 1, 1932.
2/ Station discontinued December 31, 1933.
3/ Station re-established July 1, 1937.

SILT DATA

Trinity River Watershed
at
ROMAYOR STATION ON TRINITY RIVER

for

Water Year 1948-1949
(October 1, 1948 to September 30, 1949)

Month	Discharge of Stream	Silt Load of Stream		Percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1948				
October	36,060	6,200	4	.013
November	34,750	4,080	3	.009
December	42,290	4,430	3	.008
1949				
January	184,030	154,200	101	.062
February	560,350	519,960	341	.068
March	1,049,810	1,062,700	697	.074
April	674,760	576,030	378	.063
May	337,840	236,880	155	.052
June	865,980	743,960	488	.063
July	138,990	66,480	44	.035
August	49,330	6,140	4	.009
September	55,240	30,640	20	.041
Totals	4,029,430	3,411,700	2,238	

U. S. G. S. yearly discharge in acre-feet	4,030,000
Total silt for year in acre-feet	2,238
Acre-feet of silt per year per square mile of contributing watershed	.130
Average percent of silt by weight for year	.062
Drainage area in square miles (net)	17,192 1/

1/ Revised by U.S.G.S.

SUMMARY OF SILT DATA

for

Trinity River Watershed

Stream: TRINITY
Station: ROMAYOR
Sampler: Claud Allen

(Samples taken from the railroad bridge)

Water Year	Discharge of Stream	Silt Load of Stream		Average percentage of dry silt by weight
	Ac.-ft.	Tons	Ac.-ft.	Pct.
1935-36 1/	42,130	5,220	4	.009
1936-37	3,900,920	3,481,600	2,285	.066
1937-38	6,753,160	6,741,220	4,423	.073
1938-39	2,165,150	3,199,280	2,099	.109
1939-40	3,218,170	4,999,040	3,280	.114
1940-41	12,258,630	9,657,990	6,335	.058
1941-42	9,901,100	9,447,990	6,197	.070
1942-43	4,298,370	4,914,950	3,224	.084
1943-44	7,588,430	11,433,850	7,501	.111
1944-45	12,202,840	13,559,310	8,893	.082
1945-46	8,391,500	8,643,330	5,670	.076
1946-47	7,009,180	5,290,980	3,468	.055
1947-48	4,476,720	3,284,720	2,154	.054
1948-49	4,029,430	3,411,700	2,238	.062
TOTALS	86,235,730	88,071,180	57,771	

For period of 13.142 years

Average discharge in acre-feet per year	6,561,842
Average acre-feet of silt per year	4,396
Average acre-feet of silt per year per square mile of contributing watershed	.256
Average tons of silt per year	6,701,505
Average percent of silt by weight	.075
Drainage area in square miles (net)	17,192 2/

1/ Station was established August 10, 1936.
2/ Revised by U.S.G.S.

SUMMARY OF SILT DATA FOR SOME OF THE MAJOR TEXAS STREAMS

(For Water Year Ending September 30, 1949)

Water-shed	Stream	Silt Station	Years Samples Taken	Total Length Record	Average Runoff of Stream	Average Amount of Silt		Amt. of Silt per Sq. Mi. Watershed	Silt by Weight	Net Drainage Area
				years	ac-ft	ac-ft	tons	ac-ft	per-cent	sq.mi.
Brazos	Salt Fork	Aspermont 1/	1924-25	1.238	111,100	2,818	4,297,420	1.272	2.842	2,216
Brazos	Salt Fork	Seymour 1/	1924-30	6.107	398,864	6,501	9,912,150	1.238	1.826	5,250
Brazos	Dbl.Mt. Fork	Aspermont 1/	1924-33	9.244	135,280	2,665	4,062,400	1.765	2.206	1,510
Brazos	Clear Fork	Crystal Falls 1/	1925-29	3.307	214,440	568	866,020	.131	.297	4,320
Brazos	Clear Fork	Eliasville 1/	1924-25	1.244	177,240	529	808,630	.092	.335	5,740
Brazos	Little River	Little River 1/	1924-29	4.962	419,870	752	1,147,190	.143	.201	5,253
Brazos	San Gabriel	Circleville 1/	1924-29	5.403	110,744	222	339,590	.369	.225	602
Brazos	Leon	Belton	1945-49	4.083	366,970	372	555,170	.105	.111	3,547
Brazos	Navasota	Easterly	1942-49	7.748	348,175	218	332,301	.230	.070	949
Brazos	Brazos	South Bend	1942-49	7.710	485,847	2,399	3,657,763	.194	.553	12,360
Brazos	Brazos	Possum King.Dam	1942-49	7.710	510,213	81	124,104	----	.018	----
Brazos	Brazos	Mineral Wells 1/	1924-34	10.332	953,550	6,506	9,920,060	.468	.764	13,910
Brazos	Brazos	Glen Rose 1/	1924-29	4.588	1,181,370	8,378	12,773,810	.537	.794	15,600
Brazos	Brazos	Waco 1/	1924-33	9.254	1,717,130	10,325	15,742,010	.536	.673	19,260
Brazos	Brazos	Bryan 1/	1899-02	3.419	4,156,736	39,117	----	1.340	.941*	29,190
Brazos	Brazos	Richmond	1924-49	25.306	5,757,763	23,408	35,733,868	.672	.456	34,810
Colorado	Llano	Llano	1942-49	7.167	202,841	245	373,515	.061	.135	4,000
Colorado	Pedernales	Johnson City	1942-49	7.167	104,525	138	210,836	.146	.148	947
Colorado	Colorado	San Saba	1930-49	19.055	1,196,759	3,094	4,717,917	.165	.290	18,700
Colorado	Colorado	Tow 1/	1927-32	5.162	1,245,440	3,360	5,122,520	.174	.302	19,300
Colorado	Colorado	Inks Dam	1942-49	7.167	670,887	59	89,668	----	.010	----
Colorado	Colorado	Buchanan Dam	1947-49	2.000	570,085	27	40,915	----	.005	----
Colorado	Colorado	Austin	1937-49	12.164	1,700,055	718	1,093,635	.027	.047	26,260
Colorado	Colorado	Columbus-E.Lake 2/	30-33;37-41	6.997	3,167,710	5,898	8,991,960	.202	.209	29,140
Guadalupe	Guadalupe	Spring Branch	1942-49	7.748	201,675	103	157,892	.072	.058	1,432
Guadalupe	Guadalupe	Victoria	1945-49	4.083	1,061,687	406	618,004	.076	.043	5,311

* Percent of silt by volume.

1/ Silt by months and summary data prior to 1940 contained in Progress Report No. 1.

2/ Station discontinued October 31, 1941.

SUMMARY OF SILT DATA (Continued)

Watershed	Stream	Silt Station	Years Samples Taken	Total Length Record	Average Runoff of Stream	Average Amount of Silt		Amt. of Silt per Sq. Mi. Watershed	Silt by Weight	Net Drainage Area
				years	ac.-ft	ac.-ft	tons	ac.-ft	per-cent	sq.mi.
Lavaca	Lavaca	Edna	1945-49	4.083	180,691	133	201,876	.150	.082	887
Neches	Angelina	Horger	1945-49	4.083	2,511,165	439	669,691	.128	.020	3,435
Neches	Neches	Rockland	1930-49	19.148	1,964,840	313	477,172	.088	.018	3,539
Nueces	Nueces	Cotulla	1942-49	7.748	201,500	82	125,996	.016	.046	5,260
Nueces	Nueces	Three Rivers	1927-49	22.000	692,394	509	776,606	.033	.082	15,600
Nueces	Nueces	Corpus Chr.Dam	1942-49	7.660	694,461	159	243,213	----	.026	----
Rio Grande	Rio Grande	Eagle Pass 3/	1934-43	9.068	3,180,057	9,776	14,904,545	.078	.344	125,260
Rio Grande	Rio Grande	Roma 3/	1929-43	14.184	4,166,619	12,588	19,192,311	.080	.338	157,204
Red	Pease	Crowell 4/	1942-47	5.002	113,411	992	1,512,834	.412	.980	2,410
Red	Wichita	Wichita Falls 1/	1900-02	2.014	566,420	5,516	----	1.776	.974*	3,105
Red	Red	Denison 1/	30-33;36-39	6.260	3,326,780	13,640	20,793,380	.415	.459	32,840
Sabine	Sabine	Logansport,La.	32-33;35-49	15.156	2,949,413	736	1,123,214	.152	.028	4,858
Sabine	Sabine	Ruliff 5/	1945-46	1.083	11,408,860	3,124	5,771,404	.331	.037	9,440
San Antonio	San Antonio	Falls City 1/	1927-33	5.967	127,120	142	216,730	.069	.125	2,070
San Antonio	San Antonio	Goliad	1942-49	7.748	498,557	485	740,395	.124	.109	3,918
San Jacinto	West Fork	Humble	32-33;37-49	13.337	845,685	265	405,277	.146	.035	1,811
San Jacinto	San Jacinto	Huffman	1945-49	4.083	1,560,607	657	1,001,280	.235	.047	2,791
Trinity	Trinity	Rosser 6/	1938-40	1.598	760,700	986	1,504,920	.122	.145	8,057
Trinity	Trinity	Romayor	1936-49	13.142	6,561,842	4,396	6,701,505	.256	.075	17,192

* Percent of silt by volume.
1/ Silt by months and summary data prior to 1940 contained in Progress Report No. 1.
3/ Station discontinued May 31, 1943.
4/ Station discontinued June 30, 1947.
5/ Station established September 1, 1945 and discontinued September 30, 1946.
6/ Station discontinued June 27, 1940.