

TEXAS WATER DEVELOPMENT BOARD

REPORT 184

SUSPENDED-SEDIMENT LOAD OF
TEXAS STREAMS

Compilation Report
October 1965—September 1971

By
James Mirabal

May 1974

TEXAS WATER DEVELOPMENT BOARD

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Published and distributed
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Texas Water Development Board
Post Office Box 13087
Austin, Texas 78711

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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 1965—September 1971

INTRODUCTION

This report covers the 1966 through 1971 water years, and is a supplement to Texas Water Development Board Reports 106 and 45, Texas Water Commission Bulletin 6410, and Texas Board of Water Engineers Bulletin 6108. These prior publications presented the results of suspended-sediment-load measurements at permanent observation points from the beginning of record through the 1965 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 reconnaissance type determinations of short-period record or intermittent record are compiled.

This report was prepared under the general direction of C. R. Baskin, Principal Engineer-Data and Technical Review and under special direction of E. W. Rowland, Director, Special Services Division. Assistance in checking tabulations in the report was provided by John P. Dougherty, Hydrography Branch Chief, Special Services Division and Glen W. Bishop, Engineering Technician, Hydrography Branch, Special Services Division. Computations of reservoir capacity-to-inflow ratios for the four reservoir sediment records included in this report were prepared by the author under the direction of H. M. Cook, Assistant Director, Special Services Division.

STATUS OF SUSPENDED-SEDIMENT SAMPLING STATIONS

During the period covered by this report, the Texas Water Development Board operated 44 suspended-sediment sampling stations. The Board was assigned responsibilities for State activity in this field of surface-water investigations beginning September 1, 1965. Six stations were established and 5 were discontinued in the State program during this report period. A total of 39 stations are presently in operation.

COOPERATION

The following agencies cooperated with the Texas Water Development Board 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;

City of Corpus Christi; and

U.S. Geological Survey, Water Resources Division, Austin.

EXPLANATION OF DATA

Suspended-sediment-sampling stations operated by the Texas Water Development Board at or near streamflow-measuring stations use streamflow records collected by the U.S. Geological Survey in the determination of estimated suspended-sediment loads. The identification number appearing with the station name is the standard U.S. Geological Survey number for that measurement station. Those suspended-sediment-sampling stations operated by the Texas Water Development Board at Possum Kingdom Reservoir and Lake Buchanan, where samples are collected from releases, use computed-release records furnished by the reservoir operator in the determination of estimated suspended-sediment loads.

Samples are collected in 8-ounce narrow-neck bottles at a position approximately 1 foot below the water surface near midstream. The percentage of suspended sediment by weight obtained from the sample is multiplied by the factor 1.102 to obtain the mean percentage of suspended sediment in the vertical profile.

Laboratory determinations were equated to the corresponding streamflow in determining the total suspended-sediment load.

The Texas Water Development Board uses 62.5 pounds as the average weight of 1 cubic foot of streamflow. Temperature and dissolved constituents affect the density of water. The average water weight selected is used for all calculations. The density of sediment used for all calculations is 70 pounds per cubic foot. It is emphasized that this implied density is an estimated average which may be expected for ultimate consolidation. Individual sediment deposits will have varying densities dependent on several factors. The assumptions of density may also be expressed as:

One acre-foot of streamflow = 1,361.25 tons, and

One acre-foot of sediment = 1,524.60 tons.

No attempt has been made to include in this report that sediment which may be moved by a flowing stream along its bottom, commonly referred to as "bed load."

Presented with the sediment data obtained for the 1966 through 1971 water years is a summary table showing maximum, minimum, and average annual suspended-sediment transport passing each gaging point for the total period in full water years.

Monthly values of sediment conversions to acre-feet are rounded to the nearest whole number and are based on a density of 70 pounds per cubic foot. Summary streamflow and sediment-load values for each year are totals of the monthly figures. Annual values of volume in acre-feet are determined from the total tonnage measured for the year rounded to the nearest whole number. Therefore, annual volumes do not always coincide with totals of the twelve monthly values each year.

Sediment outflow for four reservoirs in Texas were obtained during this report period. Records were taken at Possum Kingdom Reservoir, Brazos River Basin; Somerville Lake, Brazos River Basin; Lake Buchanan, Colorado River Basin; and Lake Corpus Christi, Nueces River Basin. Streamflow and sediment data are presented in three categories for the four reservoirs. First, a summary table showing ratios of reservoir capacity to reservoir inflow is presented as an indicator of reservoir trap efficiency for sediment retention. Second, a summary table and current data are given for suspended sediment passing through the reservoir. Third, suspended-sediment discharge with flood releases occurring within the six-year period covered by the current tabulation is presented to indicate that portion

of the annual total passing within these very brief flood periods.

OTHER SEDIMENT RECORDS

Records of suspended-sediment loads in Texas from sampling stations operated by the U.S. Geological Survey, and by the International Boundary and Water Commission—United States and Mexico, are collected in addition to those contained in this report. Daily and partial records obtained by the U.S. Geological Survey are reported annually in a publication titled "Water Resources Data for Texas, Part 2, Water Quality Records." Suspended-sediment records for the Rio Grande collected by the International Boundary and Water Commission are published annually in a bulletin titled "Flow of the Rio Grande and Related Data."

DEPTH-INTEGRATED SUSPENDED-SEDIMENT SAMPLING

Sampling, on a regular basis, for determining suspended sediment transported by Texas streams began in 1924. Techniques developed for sampling streamflow at the beginning of the program are still being used. Comparisons have shown that water samples collected from just below the surface of a stream contain slightly different concentrations of suspended material than water samples collected with a depth-integration sampling device. In 1968, a continuing study was undertaken by the Water Development Board to compare the results obtained with those two sampling methods. This study is being carried out to improve upon the numerical factor currently used to adjust concentrations of suspended sediment found in near-surface samples to the true average concentration existing throughout the cross-section of a stream.

While the two sampling methods give slightly different results for single samples, the average ratio of sediment concentrations for a large number of water samples collected by the two methods at the same stage of flow holds quite steady over long periods. Although the study is not considered complete, differences in concentration resulting from the two sampling methods appear to be greatest where fluvial sediment loads contain appreciable amounts of fine sand.

Preliminary findings are that there is good correlation between depth-integration suspended-sediment sampling and near-surface suspended-sediment sampling.

RECORDS OF SUSPENDED-SEDIMENT LOADS FROM
SAMPLING STATIONS OPERATED BY THE
TEXAS WATER DEVELOPMENT BOARD
1966 THROUGH 1971 WATER YEARS

RED RIVER BASIN

7299200 PRAIRIE DOG TOWN FORK RED RIVER NEAR LAKEVIEW

Net Drainage Area: 2,023 square miles.

Location: Farm Road 657 bridge, 7.6 miles southwest of Lakeview. Flow records are from stream-gaging station at same location.

Records Available: May 1964 through September 1965 and October 1967 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE FEET	
MAX 1965	101,300	5,886,103	2,910	3,861	4.267
MIN 1967	19,740	605,800	299	397	2.253
AVG 6 yrs	52,191	2,324,101	1,149	1,524	3.271

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	TONS PER SQ MI	LOAD OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1967					
OCT	102	0	--	0	.0000
NOV	108	0	--	0	.0000
DEC	74	0	--	0	.0000
JAN	57	0	--	0	.0000
FEB	60	0	--	0	.0000
MAR	102	0	--	0	.0000
APR	818	669	--	0	.0601
MAY	191	218	--	0	.0838
JUNE	4570	153300	--	101	2.4643
JULY	12410	440100	--	289	2.6052
AUG	348	758	--	0	.1600
SEPT	905	10780	--	7	.8750
SUMMARY	19740	605800	299	397	2.2533

WATER YEAR 1968

OCT	663	731	--	0	.0810
NOV	50	0	--	0	.0000
DEC	71	0	--	0	.0000
JAN	514	333	--	0	.0476
FEB	95	0	--	0	.0000
MAR	131	0	--	0	.0000
APR	370	417	--	0	.0828
MAY	8800	281200	--	184	2.3474
JUNE	22280	1011000	--	663	3.3335
JULY	1070	1650	--	1	.1133
AUG	69750	2533000	--	1660	2.6678
SEPT	2390	39970	--	26	1.2286
SUMMARY	106200	3868000	1912	2537	2.6756

RED RIVER BASIN

PRAIRIE DOG TOWN FORK RED RIVER NEAR LAKEVIEW--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1969					
OCT	538	14690	--	10	2.0059
NOV	451	4310	--	3	.7020
DEC	151	1	--	0	.0005
JAN	100	0	--	0	.0000
FEB	99	0	--	0	.0000
MAR	706	19280	--	13	2.0062
APR	1	0	--	0	.0000
MAY	18970	770300	--	505	2.9830
JUNE	7790	253100	--	166	2.3868
JULY	732	11690	--	8	1.1732
AUG	8410	466400	--	306	4.0740
SEPT	8870	219100	--	144	1.8146
SUMMARY	46820	1759000	870	1154	2.7599
WATER YEAR 1970					
OCT	3610	53830	--	35	1.0954
NOV	1120	6440	--	4	.4224
DEC	301	2930	--	2	.7151
JAN	66	0	--	0	.0000
FEB	61	0	--	0	.0000
MAR	64	0	--	0	.0000
APR	9340	800500	--	525	6.2962
MAY	246	143	--	0	.0427
JUNE	143	877	--	1	.4505
JULY	5	0	--	0	.0000
AUG	83	885	--	1	.7833
SEPT	1680	30720	--	20	1.3433
SUMMARY	16710	896300	443	588	3.9380
WATER YEAR 1971					
OCT	6	0	--	0	.0000
NOV	65	941	--	1	1.0635
DEC	15	1	--	0	.0049
JAN	13	1	--	0	.0057
FEB	63	3	--	0	.0035
MAR	15	0	--	0	.0000
APR	1	0	--	0	.0000
MAY	593	7020	--	5	.8697
JUNE	2650	185100	--	121	5.1312
JULY	506	22550	--	15	3.2738
AUG	4800	206900	--	136	3.1665
SEPT	13610	506900	--	332	2.7361
SUMMARY	22340	929400	459	610	3.0562

RED RIVER BASIN

7336820 RED RIVER NEAR DE KALB

Net Drainage Area: 41,412 square miles.

Location: U.S. Highway 259 bridge, 13 miles north of De Kalb.
Flow records are from stream-gaging station at same location.

Records Available: February 1969 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1970	5,981,000	4,330,000	105	2,840	0.053
MIN 1971	3,836,000	1,371,000	33	899	0.026
AVG 2 yrs	4,908,500	2,850,500	69	1,870	0.043

WATER YEAR 1969

OCT					
NOV					
DEC					
JAN					
FEB	1721000	1652000	--	1080	.0705
MAR	1493000	770100	--	505	.0379
APR	956600	479500	--	314	.0368
MAY	3740000	3652000	--	2400	.0717
JUNE	650000	278700	--	183	.0315
JULY	291800	59640	--	39	.0150
AUG	184100	12140	--	8	.0048
SEPT	161100	11980	--	8	.0055

SUMMARY

WATER YEAR 1970

OCT	503900	310300	--	204	.0452
NOV	252300	36610	--	24	.0107
DEC	309700	148000	--	97	.0351
JAN	551900	390700	--	256	.0520
FEB	505700	429800	--	282	.0624
MAR	1162000	1360000	--	892	.0860
APR	931200	867900	--	569	.0685
MAY	615900	353400	--	232	.0422
JUNE	485000	279600	--	183	.0424
JULY	160100	9740	--	6	.0045
AUG	217000	18860	--	12	.0064
SEPT	286800	125500	--	82	.0321
SUMMARY	5981000	4330000	105	2840	.0532

RED RIVER BASIN

RED RIVER NEAR DE KALB--Continued

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1971					
OCT	785100	572400	--	375	.0536
NOV	381500	92560	--	61	.0178
DEC	267000	24010	--	16	.0066
JAN	406300	100800	--	66	.0182
FEB	295600	123400	--	81	.0307
MAR	287900	62730	--	41	.0160
APR	414600	165600	--	109	.0293
MAY	344200	106500	--	70	.0227
JUNE	178600	47120	--	31	.0194
JULY	169900	22810	--	15	.0099
AUG	212700	42520	--	28	.0147
SEPT	92900	10860	--	7	.0086
SUMMARY	3836000	1371000	33	899	.0263

SULPHUR RIVER BASIN

7342500 SOUTH SULPHUR RIVER NEAR COOPER

Net Drainage Area: 527 square miles.Location: State Highways 19 and 154 bridge, 5.7 miles southeast of Cooper. Flow records are from stream-gaging station at same location.Records Available: March 1962 through September 1966.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1965	311,100	224,258	426	147	0.053
MIN	1964	97,110	106,772	203	70	0.081
AVG	4 yrs	215,176	168,253	319	110	0.057

WATER YEAR 1966

OCT	51	8	--	0	.0115
NOV	718	367	--	0	.0375
DEC	31	2	--	0	.0047
JAN	732	339	--	0	.0340
FEB	27530	24490	--	16	.0653
MAR	890	230	--	0	.0190
APR	201800	104400	--	68	.0380
MAY	97930	38720	--	25	.0290
JUNE	73	5	--	0	.0050
JULY	504	552	--	0	.0805
AUG	2390	4090	--	3	.1258
SEPT	6500	27310	--	18	.3087
SUMMARY	339200	200500	380	132	.0434

SULPHUR RIVER BASIN

7343200 SULPHUR RIVER NEAR TALCO

Net Drainage Area: 1,365 square miles.

Location: U.S. Highway 271 bridge, 2.2 miles northwest of Talco. Flow records are from stream-gaging station at same location.

Records Available: November 1966 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1968	1,884,000	3,607,000	2,642	2,366	0.141
MIN 1971	294,400	662,500	485	435	0.165
AVG 4 yrs	1,264,225	2,192,125	1,606	1,438	0.127

WATER YEAR 1967

OCT					
NOV	108	3	--	0	.0020
DEC	3780	972	--	1	.0189
JAN	1080	156	--	0	.0106
FEB	1770	1150	--	1	.0477
MAR	11440	20590	--	14	.1322
APR	308800	653100	--	428	.1554
MAY	170200	132400	--	87	.0571
JUNE	256500	21330	--	14	.0061
JULY	44760	49050	--	32	.0805
AUG	174	6	--	0	.0025
SEPT	46700	152100	--	100	.2393

SUMMARY

WATER YEAR 1968

OCT	74610	182100	--	119	.1793
NOV	103600	40200	--	26	.0285
DEC	173400	182600	--	120	.0774
JAN	116100	266000	--	174	.1683
FEB	68910	106200	--	70	.1132
MAR	384900	755900	--	496	.1443
APR	238200	520700	--	341	.1606
MAY	333600	468000	--	307	.1031
JUNE	234800	456700	--	300	.1429
JULY	59140	339500	--	223	.4217
AUG	18750	14050	--	9	.0550
SEPT	78080	275000	--	180	.2587
SUMMARY	1884000	3607000	2642	2366	.1406

SULPHUR RIVER BASIN

SULPHUR RIVER NEAR TALCO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1969					
OCT	15760	64250	--	42	.2995
NOV	123500	204900	--	134	.1219
DEC	206700	139100	--	91	.0494
JAN	134900	312000	--	205	.1699
FEB	479500	725100	--	476	.1111
MAR	297600	325600	--	214	.0804
APR	84660	90200	--	59	.0783
MAY	613100	1171000	--	768	.1403
JUNE	10310	37890	--	25	.2700
JULY	658	77	--	0	.0086
AUG	49	4	--	0	.0060
SEPT	69	8	--	0	.0085
SUMMARY	1967000	3070000	2249	2014	.1147
WATER YEAR 1970					
OCT	9430	52000	--	34	.4051
NOV	8650	12410	--	8	.1054
DEC	76730	124200	--	81	.1189
JAN	49980	30440	--	20	.0447
FEB	194100	468000	--	307	.1771
MAR	299100	296500	--	194	.0728
APR	211400	231300	--	152	.0804
MAY	29790	32760	--	21	.0808
JUNE	8710	14130	--	9	.1192
JULY	371	34	--	0	.0067
AUG	8	0	--	0	.0000
SEPT	23230	167700	--	110	.5303
SUMMARY	911500	1429000	1047	937	.1152
WATER YEAR 1971					
OCT	135500	253000	--	166	.1372
NOV	30110	105400	--	69	.2572
DEC	7170	6640	--	4	.0680
JAN	5570	2450	--	2	.0323
FEB	23730	138700	--	91	.4294
MAR	11450	7570	--	5	.0486
APR	671	81	--	0	.0089
MAY	9400	65940	--	43	.5153
JUNE	444	74	--	0	.0122
JULY	5720	5050	--	3	.0649
AUG	60220	56080	--	37	.0684
SEPT	4440	21470	--	14	.3552
SUMMARY	294400	662500	485	435	.1653

SULPHUR RIVER BASIN

7343500 WHITEOAK CREEK NEAR TALCO

Net Drainage Area: 494 square miles.

Location: U.S. Highway 271 bridge, 2.7 miles south of Talco.
Flow records are from stream-gaging station at same location.

Records Available: June 1963 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1967	208,800	66,630	135	44	0.024
MIN	1971	92,930	15,210	31	10	0.012
AVG	8 yrs	299,924	37,075	75	24	0.009

WATER YEAR 1966

OCT	85	0	--	0	.0000
NOV	119	2	--	0	.0012
DEC	69	0	--	0	.0000
JAN	4390	1990	--	1	.0333
FEB	41240	7540	--	5	.0134
MAR	2870	354	--	0	.0091
APR	216900	19390	--	13	.0066
MAY	164600	13020	--	9	.0058
JUNE	817	58	--	0	.0052
JULY	2410	528	--	0	.0161
AUG	4690	1190	--	1	.0186
SEPT	9960	1750	--	1	.0129
SUMMARY	448200	45820	93	30	.0075

WATER YEAR 1967

OCT	16490	2490	--	2	.0111
NOV	350	8	--	0	.0017
DEC	3460	1040	--	1	.0221
JAN	2860	292	--	0	.0075
FEB	3840	363	--	0	.0069
MAR	7070	3260	--	2	.0339
APR	54380	45300	--	30	.0612
MAY	56370	7470	--	5	.0097
JUNE	55700	4880	--	3	.0064
JULY	4420	1020	--	1	.0170
AUG	327	18	--	0	.0040
SEPT	3480	487	--	0	.0103
SUMMARY	208800	66630	135	44	.0235

SULPHUR RIVER BASIN

WHITEOAK CREEK NEAR TALCO--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM		ACRE-FeET	DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI		
WATER YEAR 1968					
OCT	10770	3610	--	2	.0246
NOV	59420	6560	--	4	.0081
DEC	49520	2760	--	2	.0041
JAN	35860	3050	--	2	.0062
FEB	28210	1370	--	1	.0036
MAR	119900	9480	--	6	.0058
APR	30090	2400	--	2	.0059
MAY	114200	8460	--	6	.0054
JUNE	21910	2910	--	2	.0098
JULY	6860	701	--	0	.0075
AUG	708	54	--	0	.0056
SEPT	9180	1330	--	1	.0106
SUMMARY	486600	42690	86	28	.0064
WATER YEAR 1969					
OCT	348	23	--	0	.0049
NOV	6230	1080	--	1	.0127
DEC	38310	3720	--	2	.0000
JAN	12810	2880	--	2	.0165
FEB	130200	12480	--	8	.0070
MAR	93200	7340	--	5	.0058
APR	39380	2770	--	2	.0052
MAY	149100	14530	--	10	.0072
JUNE	1700	133	--	0	.0057
JULY	220	9	--	0	.0030
AUG	7	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	471600	44970	91	29	.0070
WATER YEAR 1970					
OCT	7	0	--	0	.0000
NOV	1430	187	--	0	.0096
DEC	9060	1360	--	1	.0110
JAN	21090	1500	--	1	.0052
FEB	45850	6610	--	4	.0106
MAR	101600	8720	--	6	.0063
APR	113500	7020	--	5	.0045
MAY	8530	302	--	0	.0026
JUNE	5080	644	--	0	.0093
JULY	3190	253	--	0	.0058
AUG	1370	255	--	0	.0137
SEPT	4270	622	--	0	.0107
SUMMARY	314900	27470	56	18	.0064

SULPHUR RIVER BASIN

WHITEOAK CREEK NEAR TALCO--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FeET	
WATER YEAR 1971					
OCT	32800	7310	--	5	.0164
NOV	7690	619	--	0	.0059
DEC	1270	71	--	0	.0041
JAN	2850	200	--	0	.0052
FEB	15670	2610	--	2	.0122
MAR	6890	765	--	1	.0082
APR	453	31	--	0	.0050
MAY	721	98	--	0	.0100
JUNE	182	15	--	0	.0061
JULY	13710	1920	--	1	.0103
AUG	9740	1470	--	1	.0111
SEPT	933	105	--	0	.0083
SUMMARY	92930	15210	31	10	.0120

SABINE RIVER BASIN
8022000 SABINE RIVER NEAR TATUM

Net Drainage Area: 3,493 square miles.

Location: State Highway 43 bridge, 5.1 miles northeast of Tatum.
Flow records are from stream-gaging station at same location.

Records Available: June 1968 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	2,468,000	159,000	46	104	0.005
MIN 1971	514,100	51,480	15	34	0.007
AVG 3 yrs	1,481,033	107,660	31	71	0.005

WATER YEAR 1968

OCT					
NOV					
DEC					
JAN					
FEB					
MAR					
APR					
MAY					
JUNE	304900	20950	--	14	.0050
JULY	65110	3960	--	3	.0045
AUG	10830	181	--	0	.0012
SEPT	44720	3520	--	2	.0058

SUMMARY

WATER YEAR 1969

OCT	17010	342	--	0	.0015
NOV	48540	7250	--	5	.0110
DEC	195000	10870	--	7	.0041
JAN	71380	2630	--	2	.0027
FEB	244900	17800	--	12	.0053
MAR	534700	38770	--	25	.0053
APR	598800	31350	--	21	.0038
MAY	567200	38710	--	25	.0050
JUNE	178000	10730	--	7	.0044
JULY	6490	406	--	0	.0046
AUG	2260	49	--	0	.0016
SEPT	3950	73	--	0	.0014
SUMMARY	2468000	159000	46	104	.0047

SABINE RIVER BASIN

SABINE RIVER NEAR TATUM--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1970					
OCT	4350	87	--	0	.0015
NOV	55720	3020	--	2	.0040
DEC	76350	6080	--	4	.0059
JAN	146000	9920	--	7	.0050
FEB	124900	9210	--	6	.0054
MAR	504200	34500	--	23	.0050
APR	225800	17490	--	11	.0057
MAY	206900	19360	--	13	.0069
JUNE	81060	9940	--	7	.0090
JULY	22040	1640	--	1	.0055
AUG	3180	154	--	0	.0036
SEPT	10570	1090	--	1	.0076
SUMMARY	1461000	112500	32	74	.0057

WATER YEAR 1971

OCT	96750	17040	--	11	.0129
NOV	101000	9170	--	6	.0067
DEC	39870	2320	--	2	.0043
JAN	40380	1350	--	1	.0025
FEB	63580	6590	--	4	.0076
MAR	59840	5240	--	3	.0064
APR	21150	1210	--	1	.0042
MAY	29300	2860	--	2	.0072
JUNE	4610	56	--	0	.0009
JULY	11280	1180	--	1	.0077
AUG	37890	3990	--	3	.0077
SEPT	8420	471	--	0	.0041
SUMMARY	514100	51480	15	34	.0074

SABINE RIVER BASIN

8022500 SABINE RIVER AT LOGANSFORT

Net Drainage Area: 4,839 square miles.

Location: U.S. Highway 84 bridge at Logansport, Louisiana.
Flow records are from stream-gaging station Sabine River at Logansport, Louisiana, located 4,600 feet upstream from sampling point.

Records Available: December 1932 to December 27, 1933;
September 1935 through February 1968.
Discontinued due to inundation by backwater of Toledo Bend Reservoir. Sampling subsequently was begun upstream at station Sabine River near Tatum.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1945	5,997,000	4,502,820	931	2,953	0.055
MIN	1964	388,600	37,052	8	24	0.007
AVG	30 yrs	2,368,403	736,595	152	483	0.023

WATER YEAR 1966

OCT	9830	393	--	0	.0029
NOV	7170	276	--	0	.0028
DEC	26300	1480	--	1	.0041
JAN	41520	2960	--	2	.0052
FEB	144600	21010	--	14	.0107
MAR	47790	2840	--	2	.0044
APR	224800	20300	--	13	.0066
MAY	1831000	51240	--	34	.0021
JUNE	95970	11750	--	8	.0090
JULY	13460	1070	--	1	.0058
AUG	15880	1430	--	1	.0066
SEPT	35330	3190	--	2	.0066
SUMMARY	2494000	117900	24	77	.0035

WATER YEAR 1967

OCT	18360	880	--	1	.0035
NOV	14170	518	--	0	.0027
DEC	19370	759	--	0	.0029
JAN	38310	2950	--	2	.0057
FEB	31800	2600	--	2	.0060
MAR	27300	1650	--	1	.0044
APR	70020	8680	--	6	.0091
MAY	126500	18130	--	12	.0105
JUNE	254400	34090	--	22	.0098
JULY	42690	5080	--	3	.0087
AUG	5500	238	--	0	.0032
SEPT	7650	771	--	1	.0074
SUMMARY	656100	76350	16	50	.0085

SABINE RIVER BASIN

SABINE RIVER AT LOGANSPORT--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
--	-------------------------	----------------------------	----------------------------------	------------------------	-------------------------------

WATER YEAR 1968

OCT	20990	974	--	1	.0034
NOV	180800	19970	--	13	.0081
DEC	107900	10480	--	7	.0071
JAN	381000	26790	--	18	.0052
FEB	244500	17140	--	11	.0051
MAR					
APR					
MAY					
JUNE					
JULY					
AUG					
SEPT					

SUMMARY

NECHES RIVER BASIN

8031200 KICKAPOO CREEK NEAR BROWNSBORO

Net Drainage Area: 232 square miles.

Location: State Farm Road 314 bridge, 1 mile northeast of Brownsboro. Flow records are from stream-gaging station at same location.

Records Available: May 1962 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1966	122,800	6,070	26	4	0.004
MIN 1964	11,890	361	2	0	0.002
AVG 9 yrs	85,449	3,001	13	2	0.003

WATER YEAR 1966

OCT	2	0	--	0	.0000
NOV	0	0	--	0	.0000
DEC	368	6	--	0	.0016
JAN	646	0	--	0	.0000
FEB	3600	95	--	0	.0019
MAR	2240	15	--	0	.0005
APR	77480	4680	--	3	.0044
MAY	31160	1050	--	1	.0025
JUNE	878	22	--	0	.0018
JULY	257	6	--	0	.0017
AUG	1540	53	--	0	.0025
SEPT	4730	142	--	0	.0022
SUMMARY	122800	6070	26	4	.0036

WATER YEAR 1967

OCT	887	17	--	0	.0014
NOV	1540	48	--	0	.0000
DEC	2250	51	--	0	.0017
JAN	3540	48	--	0	.0010
FEB	2320	23	--	0	.0007
MAR	3050	75	--	0	.0018
APR	10120	362	--	0	.0026
MAY	6280	189	--	0	.0022
JUNE	14520	454	--	0	.0023
JULY	183	3	--	0	.0012
AUG	0	0	--	0	.0000
SEPT	390	2	--	0	.0004
SUMMARY	45080	1270	5	1	.0021

NECHES RIVER BASIN

KICKAPOO CREEK NEAR BROWNSBORO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	1630	172	--	0	.0078
NOV	7970	232	--	0	.0021
DEC	15270	413	--	0	.0020
JAN	20900	156	--	0	.0005
FEB	15560	88	--	0	.0004
MAR	23900	115	--	0	.0004
APR	34740	713	--	0	.0015
MAY	84900	5000	--	3	.0043
JUNE	10710	509	--	0	.0035
JULY	5660	222	--	0	.0029
AUG	356	4	--	0	.0008
SEPT	972	50	--	0	.0038
SUMMARY	222600	7670	33	5	.0025
WATER YEAR 1969					
OCT	749	21	--	0	.0021
NOV	2980	112	--	0	.0000
DEC	10930	200	--	0	.0000
JAN	5660	59	--	0	.0008
FEB	20070	336	--	0	.0012
MAR	38220	1180	--	1	.0023
APR	22630	594	--	0	.0019
MAY	39230	1760	--	1	.0033
JUNE	2640	135	--	0	.0038
JULY	55	3	--	0	.0040
AUG	0	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	143200	4400	19	3	.0023
WATER YEAR 1970					
OCT	14	0	--	0	.0000
NOV	2420	56	--	0	.0000
DEC	9850	149	--	0	.0011
JAN	11330	179	--	0	.0012
FEB	18390	524	--	0	.0021
MAR	28800	520	--	0	.0013
APR	9980	203	--	0	.0015
MAY	3340	82	--	0	.0018
JUNE	2480	106	--	0	.0031
JULY	55	1	--	0	.0013
AUG	0	0	--	0	.0000
SEPT	631	193	--	0	.0225
SUMMARY	87290	2010	9	1	.0017

NECHES RIVER BASIN

KICKAPOO CREEK NEAR BROWNSBORO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	25390	2430	--	2	.0070
NOV	8210	118	--	0	.0011
DEC	3520	50	--	0	.0010
JAN	3340	39	--	0	.0009
FEB	4930	82	--	0	.0012
MAR	4530	92	--	0	.0015
APR	2040	85	--	0	.0031
MAY	1200	32	--	0	.0020
JUNE	118	4	--	0	.0025
JULY	9	0	--	0	.0000
AUG	1200	38	--	0	.0023
SEPT	243	7	--	0	.0021
SUMMARY	54720	2980	13	2	.0040

NECHES RIVER BASIN

8033000 NECHES RIVER NEAR DIBOLL

Net Drainage Area: 2,724 square miles.

Location: U.S. Highway 59 bridge, 3.8 miles south of Diboll.
Flow records are from stream-gaging station at same location.

Records Available: June 1966 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	1,902,000	97,980	36	64	0.004
MIN 1971	249,300	13,200	5	9	0.004
AVG 5 yrs	922,340	48,406	18	32	0.004

WATER YEAR 1966

OCT					
NOV					
DEC					
JAN					
FEB					
MAR					
APR					
MAY					
JUNE	64660	3010	--	2	.0034
JULY	13170	731	--	0	.0041
AUG	20570	2740	--	2	.0098
SEPT	20510	1670	--	1	.0060

SUMMARY

WATER YEAR 1967

OCT	14240	888	--	1	.0046
NOV	10440	437	--	0	.0031
DEC	17910	247	--	0	.0010
JAN	28870	616	--	0	.0016
FEB	24650	990	--	1	.0030
MAR	23620	1320	--	1	.0041
APR	61780	5240	--	3	.0062
MAY	55880	4890	--	3	.0064
JUNE	55120	8000	--	5	.0107
JULY	15920	1990	--	1	.0092
AUG	4070	235	--	0	.0042
SEPT	5400	302	--	0	.0041
SUMMARY	317900	25160	9	17	.0058

NECHES RIVER BASIN

NECHES RIVER NEAR DIBOLL--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	3670	137	--	0	.0027
NOV	8360	255	--	0	.0022
DEC	19410	924	--	1	.0035
JAN	141400	4760	--	3	.0025
FEB	97960	2300	--	2	.0017
MAR	145900	7420	--	5	.0037
APR	332700	28500	--	19	.0063
MAY	334400	11000	--	7	.0024
JUNE	219400	10540	--	7	.0035
JULY	127100	4940	--	3	.0029
AUG	23070	1770	--	1	.0056
SEPT	45860	3740	--	2	.0060
SUMMARY	1499000	76290	28	50	.0037
WATER YEAR 1969					
OCT	28120	967	--	1	.0025
NOV	43200	1790	--	1	.0030
DEC	193000	6230	--	4	.0024
JAN	115300	2560	--	2	.0016
FEB	160000	7360	--	5	.0034
MAR	394200	15330	--	10	.0029
APR	476700	27560	--	18	.0042
MAY	390800	21330	--	14	.0040
JUNE	76630	12920	--	8	.0124
JULY	16420	1510	--	1	.0068
AUG	2790	161	--	0	.0042
SEPT	4750	263	--	0	.0041
SUMMARY	1902000	97980	36	64	.0038
WATER YEAR 1970					
OCT	4760	237	--	0	.0037
NOV	27770	1990	--	1	.0053
DEC	66760	3090	--	2	.0034
JAN	84740	2550	--	2	.0022
FEB	73530	2430	--	2	.0024
MAR	166200	8230	--	5	.0036
APR	120700	4270	--	3	.0026
MAY	77620	4330	--	3	.0041
JUNE	11820	1630	--	1	.0101
JULY	3730	230	--	0	.0045
AUG	1610	82	--	0	.0037
SEPT	4370	327	--	0	.0055
SUMMARY	643500	29400	11	19	.0034

NECHES RIVER BASIN

NECHES RIVER NEAR DIBOLL--Continued

	STREAMFLOW		SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET		TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
WATER YEAR 1971						
OCT	15000		1750	--	1	.0086
NOV	54090		2810	--	2	.0038
DEC	31830		1310	--	1	.0030
JAN	33210		880	--	1	.0019
FEB	22190		760	--	0	.0025
MAR	34170		1520	--	1	.0033
APR	15750		1090	--	1	.0051
MAY	27110		2020	--	1	.0055
JUNE	5390		381	--	0	.0052
JULY	2430		230	--	0	.0070
AUG	4540		230	--	0	.0037
SEPT	3580		220	--	0	.0045
SUMMARY	249300		13200	5	9	.0039

NECHES RIVER BASIN
8033300 PINEY CREEK NEAR GROVETON

Net Drainage Area: 79 square miles.

Location: State Highway 94 bridge, 6.5 miles northeast of Groveton. Flow records are from stream-gaging station at same location.

Records Available: May 1962 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1969	61,650	5,460	69	4	0.007
MIN	1971	511	87	1	0	0.013
AVG	9 yrs	17,002	2,194	28	1	0.009

WATER YEAR 1966

OCT	1	0	--	0	.0000
NOV	34	11	--	0	.0238
DEC	5280	1330	--	1	.0185
JAN	4440	778	--	1	.0129
FEB	5630	857	--	1	.0112
MAR	554	30	--	0	.0040
APR	7780	1220	--	1	.0115
MAY	2850	241	--	0	.0062
JUNE	11	0	--	0	.0000
JULY	27	2	--	0	.0054
AUG	2120	371	--	0	.0129
SEPT	19	0	--	0	.0000
SUMMARY	28750	4840	61	3	.0124

WATER YEAR 1967

OCT	117	28	--	0	.0176
NOV	6	0	--	0	.0000
DEC	17	0	--	0	.0000
JAN	21	0	--	0	.0000
FEB	186	59	--	0	.0233
MAR	56	0	--	0	.0000
APR	845	190	--	0	.0165
MAY	260	0	--	0	.0000
JUNE	944	170	--	0	.0132
JULY	22	0	--	0	.0000
AUG	1	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	2480	447	6	0	.0132

NECHES RIVER BASIN

PINEY CREEK NEAR GROVETON--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	0	0	--	0	.0000
NOV	0	0	--	0	.0000
DEC	64	2	--	0	.0023
JAN	3820	2310	--	2	.0444
FEB	327	22	--	0	.0049
MAR	735	41	--	0	.0041
APR	13490	1180	--	1	.0064
MAY	4180	507	--	0	.0089
JUNE	13260	957	--	1	.0053
JULY	748	44	--	0	.0043
AUG	7	0	--	0	.0000
SEPT	135	7	--	0	.0038
SUMMARY	36770	5070	64	3	.0101
WATER YEAR 1969					
OCT	0	0	--	0	.0000
NOV	452	20	--	0	.0033
DEC	3160	383	--	0	.0000
JAN	755	31	--	0	.0030
FEB	8900	1160	--	1	.0096
MAR	16310	1330	--	1	.0060
APR	14960	1310	--	1	.0064
MAY	17040	1230	--	1	.0053
JUNE	68	0	--	0	.0000
JULY	16	0	--	0	.0000
AUG	1	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	61650	5460	69	4	.0065
WATER YEAR 1970					
OCT	0	0	--	0	.0000
NOV	2	0	--	0	.0000
DEC	1	0	--	0	.0000
JAN	15	2	--	0	.0098
FEB	229	26	--	0	.0083
MAR	1550	139	--	0	.0066
APR	895	102	--	0	.0084
MAY	345	70	--	0	.0149
JUNE	1	0	--	0	.0000
JULY	1	0	--	0	.0000
AUG	0	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	3040	339	4	0	.0082

NECHES RIVER BASIN

PINEY CREEK NEAR GROVETON--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	463	81	--	0	.0000
NOV	2	0	--	0	.0000
DEC	0	0	--	0	.0000
JAN	0	0	--	0	.0000
FEB	0	0	--	0	.0000
MAR	0	0	--	0	.0000
APR	0	0	--	0	.0000
MAY	8	1	--	0	.0092
JUNE	36	5	--	0	.0102
JULY	0	0	--	0	.0000
AUG	0	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	511	87	1	0	.0126

NECHES RIVER BASIN

8033500 NECHES RIVER NEAR ROCKLAND

Net Drainage Area: 3,637 square miles.

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

Records Available: August 8, 1930 through April 1966.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WIEGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1945	3,401,000	1,967,220	541	1,290	0.042
MIN 1956	333,900	34,655	10	23	0.008
AVG 35 yrs	1,666,640	328,807	90	216	0.014

WATER YEAR 1966

OCT	7980	207	--	0	.0019
NOV	11460	302	--	0	.0019
DEC	164900	19700	--	13	.0088
JAN	124600	10810	--	7	.0064
FEB	298600	37220	--	24	.0092
MAR	77440	5510	--	4	.0052
APR	79640	7110	--	5	.0066
MAY					
JUNE					
JULY					
AUG					
SEPT					

SUMMARY

NECHES RIVER BASIN

8037050 BAYOU LA NANA AT NACOGDOCHES

Net Drainage Area: 31.3 square miles.

Location: Farm Road 1878 bridge in Nacogdoches. Flow records are from stream-gaging station at same location.

Records Available: October 1965 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	40,000	8,720	281	6	0.016
MIN 1971	1,430	146	5	0	0.007
AVG 6 yrs	17,600	4,812	154	3	0.020

WATER YEAR 1966	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
OCT	1	0	--	0	.0000
NOV	31	0	--	0	.0000
DEC	1230	202	--	0	.0121
JAN	3730	673	--	0	.0133
FEB	3040	1980	--	1	.0479
MAR	1230	39	--	0	.0023
APR	5660	3580	--	2	.0465
MAY	5830	1430	--	1	.0180
JUNE	428	15	--	0	.0026
JULY	105	6	--	0	.0042
AUG	543	559	--	0	.0756
SEPT	138	2	--	0	.0011
SUMMARY	21960	8490	274	6	.0284

WATER YEAR 1967	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
OCT	56	2	--	0	.0026
NOV	39	0	--	0	.0000
DEC	164	1	--	0	.0000
JAN	169	0	--	0	.0000
FEB	557	1790	--	1	.2361
MAR	491	23	--	0	.0034
APR	560	169	--	0	.0222
MAY	449	36	--	0	.0059
JUNE	1270	2120	--	1	.1226
JULY	90	5	--	0	.0041
AUG	1	0	--	0	.0000
SEPT	0	0	--	0	.0000
SUMMARY	3850	4150	134	3	.0792

NECHES RIVER BASIN

BAYOU LA NANA AT NACOGDOCHES--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	1	0	--	0	.0000
NOV	0	0	--	0	.0000
DEC	25	0	--	0	.0000
JAN	4000	1430	--	1	.0263
FEB	1410	277	--	0	.0144
MAR	2410	85	--	0	.0026
APR	10620	2670	--	2	.0185
MAY	5890	656	--	0	.0082
JUNE	2290	477	--	0	.0153
JULY	4100	637	--	0	.0114
AUG	374	2	--	0	.0004
SEPT	1100	204	--	0	.0136
SUMMARY	32210	6440	208	4	.0147
WATER YEAR 1969					
OCT	177	2	--	0	.0008
NOV	1250	314	--	0	.0185
DEC	5960	820	--	1	.0101
JAN	1940	31	--	0	.0012
FEB	6560	834	--	1	.0093
MAR	8940	903	--	1	.0074
APR	8280	1830	--	1	.0162
MAY	6550	3970	--	3	.0445
JUNE	292	10	--	0	.0025
JULY	35	1	--	0	.0021
AUG	8	0	--	0	.0000
SEPT	11	1	--	0	.0067
SUMMARY	40000	8720	281	6	.0160
WATER YEAR 1970					
OCT	46	9	--	0	.0000
NOV	64	5	--	0	.0057
DEC	196	11	--	0	.0041
JAN	311	5	--	0	.0012
FEB	1140	361	--	0	.0233
MAR	2610	342	--	0	.0096
APR	1130	127	--	0	.0083
MAY	499	63	--	0	.0093
JUNE	62	2	--	0	.0024
JULY	0	0	--	0	.0000
AUG	46	1	--	0	.0016
SEPT	52	2	--	0	.0028
SUMMARY	6150	928	30	1	.0111

NECHES RIVER BASIN
 BAYOU LA NANA AT NACOGDOCHES--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	193	74	--	0	.0282
NOV	112	6	--	0	.0039
DEC	89	3	--	0	.0025
JAN	92	0	--	0	.0000
FEB	257	11	--	0	.0031
MAR	150	0	--	0	.0000
APR	38	0	--	0	.0000
MAY	323	41	--	0	.0093
JUNE	15	0	--	0	.0000
JULY	83	5	--	0	.0044
AUG	32	1	--	0	.0023
SEPT	51	5	--	0	.0072
SUMMARY	1430	146	5	0	.0074

TRINITY RIVER BASIN

8052700 LITTLE ELM CREEK NEAR AUBREY

Net Drainage Area: 75.5 square miles.

Location: Farm Road 1385 bridge, 5.5 miles east of Aubrey.
Flow records from stream-gaging station at same location.

Records Available: July 1964 through September 1968.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1966	28,750	65,730	865	43	0.168
MIN 1967	18,850	8,420	111	6	0.033
AVG 4 yrs	30,025	44,334	587	29	0.108

WATER YEAR 1966

OCT	15	0	--	0	.0000
NOV	441	678	--	0	.1129
DEC	4	0	--	0	.0000
JAN	21	2	--	0	.0070
FEB	2460	4900	--	3	.1464
MAR	134	88	--	0	.0482
APR	16750	49970	--	33	.2192
MAY	5790	4650	--	3	.0590
JUNE	62	12	--	0	.0142
JULY	1	0	--	0	.0000
AUG	1760	3920	--	3	.1635
SEPT	1310	1510	--	1	.0845
SUMMARY	28750	65730	865	43	.1680

WATER YEAR 1967

OCT	133	55	--	0	.0000
NOV	0	0	--	0	.0000
DEC	3	0	--	0	.0000
JAN	2	0	--	0	.0000
FEB	7	0	--	0	.0000
MAR	225	97	--	0	.0317
APR	3090	3860	--	3	.0918
MAY	9490	1180	--	1	.0091
JUNE	5860	3210	--	2	.0402
JULY	0	0	--	0	.0000
AUG	0	0	--	0	.0000
SEPT	34	17	--	0	.0367
SUMMARY	18850	8420	111	6	.0328

TRINITY RIVER BASIN

LITTLE ELM CREEK NEAR AUBREY--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	36	4	--	0	.0082
NOV	11	0	--	0	.0000
DEC	347	95	--	0	.0201
JAN	1880	1800	--	1	.0703
FEB	625	546	--	0	.0742
MAR	11220	13030	--	9	.0853
APR	6550	6260	--	4	.0702
MAY	9780	14120	--	9	.1061
JUNE	342	420	--	0	.0902
JULY	231	782	--	1	.2487
AUG	0	0	--	0	.0000
SEPT	893	1140	--	1	.0938
SUMMARY	31910	38200	503	25	.0879

TRINITY RIVER BASIN

8062500 TRINITY RIVER NEAR ROSSER

Net Drainage Area: 8,146 square miles.

Location: State Highway 34 bridge between Rosser and Ennis.
Flow records are from stream-gaging station at same location.

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

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1957	4,202,000	4,808,582	590	3,154	0.084
MIN 1955	226,100	144,572	18	96	0.047
AVG 18 yrs	1,599,180	974,053	120	639	0.045

WATER YEAR 1966

OCT	30740	2930	--	2	.0070
NOV	41430	14080	--	9	.0250
DEC	33440	1150	--	1	.0025
JAN	26960	2570	--	2	.0070
FEB	124100	119700	--	79	.0709
MAR	56810	36200	--	24	.0468
APR	414800	414800	--	272	.0735
MAY	1201000	501500	--	329	.0307
JUNE	449400	213700	--	140	.0349
JULY	249100	81530	--	53	.0240
AUG	50420	11490	--	8	.0167
SEPT	54160	15860	--	10	.0215
SUMMARY	2732000	1416000	174	929	.0381

WATER YEAR 1967

OCT	66410	59600	--	39	.0659
NOV	23070	1140	--	1	.0036
DEC	25470	1250	--	1	.0036
JAN	23900	728	--	0	.0022
FEB	22750	716	--	0	.0023
MAR	31550	2240	--	1	.0052
APR	68660	116700	--	77	.1249
MAY	79360	47900	--	31	.0443
JUNE	224800	168000	--	110	.0549
JULY	75430	21910	--	14	.0213
AUG	22660	1850	--	1	.0060
SEPT	57560	21030	--	14	.0268
SUMMARY	721600	443100	54	291	.0451

TRINITY RIVER BASIN

TRINITY RIVER NEAR ROSSER--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	116600	110900	--	73	.0699
NOV	101800	51620	--	34	.0373
DEC	91680	31130	--	20	.0249
JAN	159800	114300	--	75	.0525
FEB	143000	49320	--	32	.0253
MAR	498100	308800	--	203	.0455
APR	485900	234400	--	154	.0354
MAY	533800	261100	--	171	.0359
JUNE	352600	200500	--	131	.0418
JULY	157200	34410	--	23	.0161
AUG	81910	30360	--	20	.0272
SEPT	35040	5830	--	4	.0122
SUMMARY	2757000	1433000	176	940	.0382
WATER YEAR 1969					
OCT	36120	22340	--	15	.0454
NOV	46520	30860	--	20	.0487
DEC	50840	13520	--	9	.0195
JAN	35020	10780	--	7	.0226
FEB	188600	94900	--	62	.0370
MAR	419500	201100	--	132	.0352
APR	389200	162400	--	107	.0307
MAY	1001000	531400	--	349	.0390
JUNE	415200	111800	--	73	.0198
JULY	81690	14290	--	9	.0129
AUG	34950	1950	--	1	.0041
SEPT	41710	24640	--	16	.0434
SUMMARY	2741000	1220000	150	800	.0327
WATER YEAR 1970					
OCT	60180	53680	--	35	.0655
NOV	38860	5070	--	3	.0096
DEC	64420	33700	--	22	.0384
JAN	71010	17500	--	11	.0181
FEB	175400	143000	--	94	.0599
MAR	590200	263700	--	173	.0328
APR	320100	281100	--	184	.0645
MAY	363700	167700	--	110	.0339
JUNE	165600	73510	--	48	.0326
JULY	32850	907	--	1	.0020
AUG	38540	6440	--	4	.0123
SEPT	89430	60700	--	40	.0499
SUMMARY	2010000	1107000	136	726	.0405

TRINITY RIVER BASIN

TRINITY RIVER NEAR ROSSER--Continued

	STREAMFLOW		SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT	
	ACRE-Feet		Tons	Tons per sq mi	Pct by weight	
WATER YEAR 1971						
OCT	130700		103900	--	68	.0584
NOV	27100		1550	--	1	.0042
DEC	41270		1950	--	1	.0035
JAN	28960		645	--	0	.0016
FEB	33670		4410	--	3	.0096
MAR	43430		7190	--	5	.0122
APR	47510		25150	--	16	.0389
MAY	39200		33080	--	22	.0620
JUNE	30890		4060	--	3	.0097
JULY	44130		31820	--	21	.0530
AUG	62690		49690	--	33	.0582
SEPT	31030		5470	--	4	.0129
SUMMARY	560700		268900	33	176	.0352

TRINITY RIVER BASIN

8064500 CHAMBERS CREEK NEAR CORSICANA

Net Drainage Area: 963 square miles.

Location: State Highway 31 bridge, 5.3 miles east of Corsicana. Flow records are from stream-gaging station at same location.

Records Available: June 1963 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1968	748,700	682,100	708	447	0.067
MIN 1964	14,746	38,591	40	25	0.192
AVG 8 yrs	280,924	313,070	325	205	0.082

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1966					
OCT	1	0	--	0	.0000
NOV	1750	1370	--	1	.0574
DEC	372	13	--	0	.0026
JAN	429	34	--	0	.0058
FEB	3940	6050	--	4	.1128
MAR	2730	1020	--	1	.0276
APR	183200	292400	--	192	.1172
MAY	118900	126400	--	83	.0781
JUNE	24430	8210	--	5	.0247
JULY	195	25	--	0	.0094
AUG	1660	1830	--	1	.0812
SEPT	3280	4080	--	3	.0914
SUMMARY	340900	441400	458	290	.0951

WATER YEAR 1967

OCT	2280	4680	--	3	.1508
NOV	2	0	--	0	.0000
DEC	22	0	--	0	.0000
JAN	75	2	--	0	.0020
FEB	88	3	--	0	.0025
MAR	65	0	--	0	.0000
APR	1950	3110	--	2	.1172
MAY	2830	8290	--	5	.2152
JUNE	9160	19140	--	13	.1535
JULY	6160	13070	--	9	.1559
AUG	0	0	--	0	.0000
SEPT	12360	18710	--	12	.1112
SUMMARY	34990	67010	70	44	.1407

TRINITY RIVER BASIN

CHAMBERS CREEK NEAR CORSICANA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	87440	63540	--	42	.0534
NOV	78670	45740	--	30	.0427
DEC	44040	18850	--	12	.0314
JAN	75850	77590	--	51	.0751
FEB	45010	31360	--	21	.0512
MAR	100600	113400	--	74	.0828
APR	66300	72220	--	47	.0800
MAY	179800	185900	--	122	.0760
JUNE	63450	71230	--	47	.0825
JULY	6950	2240	--	1	.0237
AUG	263	13	--	0	.0036
SEPT	289	20	--	0	.0051
SUMMARY	748700	682100	708	447	.0669
WATER YEAR 1969					
OCT	1840	5790	--	4	.2312
NOV	3670	6350	--	4	.0000
DEC	14560	23460	--	15	.1184
JAN	3170	306	--	0	.0071
FEB	24680	24360	--	16	.0725
MAR	70620	104600	--	69	.1088
APR	40930	25310	--	17	.0454
MAY	290100	319500	--	210	.0809
JUNE	26720	8460	--	6	.0233
JULY	126	38	--	0	.0222
AUG	0	0	--	0	.0000
SEPT	8	1	--	0	.0092
SUMMARY	476400	518200	538	340	.0799
WATER YEAR 1970					
OCT	2030	4560	--	3	.1650
NOV	859	681	--	0	.0582
DEC	10110	10810	--	7	.0785
JAN	3620	1710	--	1	.0347
FEB	36000	58700	--	39	.1199
MAR	131200	120700	--	79	.0676
APR	44660	66990	--	44	.1102
MAY	36990	21960	--	14	.0436
JUNE	13100	39080	--	26	.2192
JULY	324	19	--	0	.0043
AUG	2	0	--	0	.0000
SEPT	1640	2080	--	1	.0932
SUMMARY	280600	327400	340	215	.0857

TRINITY RIVER BASIN

CHAMBERS CREEK NEAR CORSICANA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	55140	84640	--	56	.1128
NOV	17710	7320	--	5	.0304
DEC	3020	242	--	0	.0059
JAN	954	36	--	0	.0028
FEB	3210	14260	--	9	.3263
MAR	2310	966	--	1	.0307
APR	8030	38520	--	25	.3524
MAY	3610	6280	--	4	.1278
JUNE	488	113	--	0	.0170
JULY	640	836	--	1	.0960
AUG	2080	9090	--	6	.3210
SEPT	7	0	--	0	.0000
SUMMARY	97200	162300	169	106	.1227

TRINITY RIVER BASIN

8065350 TRINITY RIVER NEAR CROCKETT

Net Drainage Area: 13,911 square miles.

Location: State Highway 7 bridge, 12 miles west of Crockett.
Flow records are from stream-gaging station at same location.

Records Available: May 1968 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	5,595,000	2,028,000	146	1,330	0.027
MIN 1971	978,600	493,300	35	324	0.037
AVG 3 yrs	3,417,867	1,398,433	101	917	0.030

STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	SEDIMENT TONS PER SQ MI	LOAD OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
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WATER YEAR 1968

OCT					
NOV					
DEC					
JAN					
FEB					
MAR					
APR					
MAY	1483000	308000	--	202	.0153
JUNE	664200	381700	--	250	.0422
JULY	295100	112000	--	73	.0279
AUG	97600	7640	--	5	.0058
SEPT	60200	5160	--	3	.0063

SUMMARY

WATER YEAR 1969

OCT	49870	4880	--	3	.0072
NOV	76250	18240	--	12	.0176
DEC	201100	122200	--	80	.0446
JAN	78800	7650	--	5	.0071
FEB	406800	288700	--	189	.0521
MAR	970800	456700	--	300	.0346
APR	1038000	365100	--	239	.0258
MAY	1906000	500100	--	328	.0193
JUNE	663300	226600	--	149	.0251
JULY	116600	31880	--	21	.0201
AUG	40360	2300	--	2	.0042
SEPT	48030	4060	--	3	.0062
SUMMARY	5595000	2028000	146	1330	.0266

TRINITY RIVER BASIN

TRINITY RIVER NEAR CROCKETT--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1970					
OCT	58120	14540	--	10	.0184
NOV	104400	66760	--	44	.0470
DEC	194600	136500	--	90	.0515
JAN	221900	104500	--	69	.0346
FEB	273000	215300	--	141	.0579
MAR	1333000	407200	--	267	.0224
APR	519800	324700	--	213	.0459
MAY	581400	243600	--	160	.0308
JUNE	229400	131500	--	86	.0421
JULY	34730	1370	--	1	.0029
AUG	40300	2350	--	2	.0043
SEPT	89370	25770	--	17	.0212
SUMMARY	3680000	1674000	120	1098	.0334

WATER YEAR 1971

OCT	193600	207700	--	136	.0788
NOV	143400	78040	--	51	.0400
DEC	58970	6270	--	4	.0078
JAN	50190	3820	--	3	.0056
FEB	65260	18360	--	12	.0207
MAR	102600	16200	--	11	.0116
APR	76440	44440	--	29	.0427
MAY	57770	15880	--	10	.0202
JUNE	48910	9790	--	6	.0147
JULY	35010	8200	--	5	.0172
AUG	105400	75010	--	49	.0523
SEPT	41030	9600	--	6	.0172
SUMMARY	978600	493300	35	324	.0370

TRINITY RIVER BASIN

8066200 LONG KING CREEK AT LIVINGSTON

Net Drainage Area: 141 square miles.

Location: U.S. Highway 190 bridge, 2 miles west of Livingston.
Flow records are from stream-gaging station at same location.

Records Available: June 1963 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	110,200	132,400	939	87	0.088
MIN 1970	8,890	3,150	22	2	0.026
AVG 8 yrs	129,625	44,303	314	29	0.025

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1966					
OCT	11	0	--	0	.0000
NOV	667	145	--	0	.0160
DEC	13740	13650	--	9	.0730
JAN	9670	5510	--	4	.0419
FEB	23650	30390	--	20	.0944
MAR	2500	570	--	0	.0167
APR	13390	23650	--	16	.1298
MAY	6020	7130	--	5	.0869
JUNE	225	18	--	0	.0059
JULY	60	2	--	0	.0024
AUG	127	4	--	0	.0023
SEPT	157	18	--	0	.0084
SUMMARY	70220	81090	575	53	.0848

WATER YEAR 1967					
OCT	1520	2040	--	1	.0986
NOV	73	0	--	0	.0000
DEC	394	21	--	0	.0039
JAN	949	172	--	0	.0133
FEB	1360	312	--	0	.0169
MAR	2020	539	--	0	.0196
APR	9070	6190	--	4	.0501
MAY	6870	1690	--	1	.0181
JUNE	466	175	--	0	.0276
JULY	434	46	--	0	.0078
AUG	26	0	--	0	.0000
SEPT	9	0	--	0	.0000
SUMMARY	23200	11190	79	7	.0354

TRINITY RIVER BASIN

LONG KING CREEK AT LIVINGSTON--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	LOAD OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	35	0	--	0	.0000
NOV	117	7	--	0	.0044
DEC	531	267	--	0	.0369
JAN	4890	3100	--	2	.0466
FEB	975	94	--	0	.0071
MAR	4510	1370	--	1	.0223
APR	18590	15040	--	10	.0594
MAY	5370	2290	--	2	.0313
JUNE	30420	40980	--	27	.0990
JULY	1350	153	--	0	.0083
AUG	190	13	--	0	.0050
SEPT	237	72	--	0	.0223
SUMMARY	67210	63390	450	42	.0693
WATER YEAR 1969					
OCT	413	103	--	0	.0183
NOV	5030	2080	--	1	.0304
DEC	18190	16560	--	11	.0669
JAN	1870	166	--	0	.0065
FEB	14880	8740	--	6	.0431
MAR	19150	23640	--	16	.0907
APR	9040	16910	--	11	.1374
MAY	40700	64030	--	42	.1156
JUNE	787	167	--	0	.0156
JULY	54	0	--	0	.0000
AUG	39	0	--	0	.0000
SEPT	50	4	--	0	.0059
SUMMARY	110200	132400	939	87	.0883
WATER YEAR 1970					
OCT	40	3	--	0	.0055
NOV	204	48	--	0	.0173
DEC	850	368	--	0	.0318
JAN	1670	554	--	0	.0244
FEB	808	148	--	0	.0135
MAR	2040	474	--	0	.0171
APR	2630	1500	--	1	.0419
MAY	479	46	--	0	.0071
JUNE	98	4	--	0	.0030
JULY	17	0	--	0	.0000
AUG	22	0	--	0	.0000
SEPT	39	0	--	0	.0000
SUMMARY	8890	3150	22	2	.0260

TRINITY RIVER BASIN

LONG KING CREEK AT LIVINGSTON--Continued

STREAMFLOW SUSPENDED SEDIMENT LOAD OF STREAM DRY SEDIMENT
ACRE-FEET TONS TONS PER SQ MI ACRE-FEET PCT BY WEIGHT

WATER YEAR 1971

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	SEDIMENT LOAD TONS PER SQ MI	LOAD OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
OCT	7640	9740	--	6	.0000
NOV	470	142	--	0	.0000
DEC	174	0	--	0	.0000
JAN	171	0	--	0	.0000
FEB	307	4	--	0	.0010
MAR	230	3	--	0	.0010
APR	242	4	--	0	.0012
MAY	815	233	--	0	.0210
JUNE	43	0	--	0	.0000
JULY	0	0	--	0	.0000
AUG	0	0	--	0	.0000
SEPT	274	50	--	0	.0134
SUMMARY	10370	10180	72	7	.0721

TRINITY RIVER BASIN
8066500 TRINITY RIVER AT ROMAYOR

Net Drainage Area: 17,186 square miles.

Location: State Highway 105 bridge, 2 miles south of Romayor.
Flow records are from stream-gaging station at same location.

Records Available: August 10, 1936 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1945	12,200,000	13,559,310	789	8,893	0.081
MIN 1971	528,500	37,140	2	24	0.005
AVG 35 yrs	5,132,048	4,236,985	246	2,779	0.061

WATER YEAR	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1966					
OCT	52590	3530	--	2	.0049
NOV	105000	51980	--	34	.0364
DEC	354400	303500	--	199	.0629
JAN	211100	86310	--	57	.0300
FEB	459300	437500	--	287	.0700
MAR	155800	40960	--	27	.0193
APR	591000	665000	--	436	.0827
MAY	3197000	2285000	--	1500	.0525
JUNE	695300	333300	--	219	.0352
JULY	368700	111100	--	73	.0221
AUG	158000	54020	--	35	.0251
SEPT	128700	18140	--	12	.0104
SUMMARY	6477000	4390000	255	2879	.0498

WATER YEAR 1967					
OCT	107800	16500	--	11	.0112
NOV	44640	1130	--	1	.0019
DEC	54850	2090	--	1	.0028
JAN	58550	2640	--	2	.0033
FEB	54980	6380	--	4	.0085
MAR	61730	5300	--	3	.0063
APR	198200	107300	--	70	.0398
MAY	146200	40430	--	27	.0203
JUNE	268900	193900	--	127	.0530
JULY	113700	24110	--	16	.0156
AUG	32210	1480	--	1	.0034
SEPT	140700	106700	--	70	.0557
SUMMARY	1282000	508000	30	333	.0291

TRINITY RIVER BASIN

TRINITY RIVER AT ROMAYOR--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD TONS	TONS PER SQ MI	OF STREAM ACRE-FeET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	169400	117200	--	77	.0508
NOV	501100	448400	--	294	.0657
DEC	320100	183400	--	120	.0421
JAN	675500	479800	--	315	.0522
FEB	539700	255700	--	168	.0348
MAR	868900	580700	--	381	.0491
APR	1696000	824500	--	541	.0357
MAY	1627000	939500	--	616	.0424
JUNE	1316000	776500	--	509	.0433
JULY	445400	199700	--	131	.0329
AUG	127800	10130	--	7	.0058
SEPT	75800	4630	--	3	.0045
SUMMARY	8362000	4820000	280	3161	.0423

WATER YEAR 1969

OCT	80090	6120	--	4	.0056
NOV	96540	14970	--	10	.0114
DEC	357200	80120	--	53	.0165
JAN	187500	15930	--	10	.0062
FEB	466600	144000	--	94	.0227
MAR	1313000	346600	--	227	.0194
APR	1632000	329300	--	216	.0148
MAY	2227000	653700	--	429	.0216
JUNE	862500	86500	--	57	.0074
JULY	125700	10250	--	7	.0060
AUG	88520	4450	--	3	.0037
SEPT	83390	3450	--	2	.0030
SUMMARY	7520000	1695000	99	1112	.0166

WATER YEAR 1970

OCT	86960	3710	--	2	.0031
NOV	128700	11430	--	7	.0065
DEC	220600	27360	--	18	.0091
JAN	300400	31800	--	21	.0078
FEB	230900	23350	--	15	.0074
MAR	1291000	314700	--	206	.0179
APR	513300	69440	--	46	.0099
MAY	208900	23520	--	15	.0083
JUNE	152900	8480	--	6	.0041
JULY	113000	3880	--	3	.0025
AUG	65780	1690	--	1	.0019
SEPT	58660	1050	--	1	.0013
SUMMARY	3371000	520400	30	341	.0113

TRINITY RIVER BASIN

TRINITY RIVER NEAR ROMAYOR--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	45750	5830	--	4	.0094
NOV	26740	1200	--	1	.0033
DEC	21610	1220	--	1	.0041
JAN	21310	563	--	0	.0019
FEB	24990	1640	--	1	.0048
MAR	56210	4230	--	3	.0055
APR	69970	4720	--	3	.0050
MAY	80090	6900	--	5	.0063
JUNE	66950	4370	--	3	.0048
JULY	57580	3860	--	3	.0049
AUG	29400	1580	--	1	.0039
SEPT	27930	1030	--	1	.0027
SUMMARY	528500	37140	2	24	.0052

SAN JACINTO RIVER BASIN

8070000 EAST FORK SAN JACINTO RIVER NEAR CLEVELAND

Net Drainage Area: 325 square miles.

Location: State Highway 105 bridge about one mile southwest of Cleveland. Flow records are from stream-gaging station at same location.

Records Available: December 1952 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1958	227,500	46,257	142	30	0.015
MIN 1971	16,530	634	2	0	0.003
AVG 18 yrs	109,709	18,532	57	12	0.012

WATER YEAR 1966

OCT	798	26	--	0	.0024
NOV	1200	76	--	0	.0047
DEC	8160	1590	--	1	.0143
JAN	11880	1210	--	1	.0075
FEB	29630	5240	--	3	.0130
MAR	6440	898	--	1	.0102
APR	27850	4010	--	3	.0106
MAY	25280	3720	--	2	.0108
JUNE	2400	117	--	0	.0036
JULY	958	38	--	0	.0029
AUG	3860	688	--	0	.0131
SEPT	1770	135	--	0	.0056
SUMMARY	120200	17750	55	12	.0108

WATER YEAR 1967

OCT	2670	219	--	0	.0060
NOV	1100	34	--	0	.0023
DEC	1880	79	--	0	.0031
JAN	2600	123	--	0	.0035
FEB	2960	251	--	0	.0062
MAR	2570	112	--	0	.0032
APR	6450	1240	--	1	.0141
MAY	2270	304	--	0	.0098
JUNE	11270	3180	--	2	.0207
JULY	618	42	--	0	.0050
AUG	448	30	--	0	.0049
SEPT	517	23	--	0	.0033
SUMMARY	35360	5640	17	4	.0117

SAN JACINTO RIVER BASIN

EAST FORK SAN JACINTO RIVER NEAR CLEVELAND--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET
WATER YEAR 1968				
OCT	568	33	--	0
NOV	691	40	--	0
DEC	1990	101	--	0
JAN	12220	2060	--	1
FEB	1980	68	--	0
MAR	10820	1410	--	1
APR	21850	2460	--	2
MAY	58540	6620	--	4
JUNE	86590	9560	--	6
JULY	3680	231	--	0
AUG	890	26	--	0
SEPT	933	1	--	0
SUMMARY	200800	22610	70	15
WATER YEAR 1969				
OCT	5130	148	--	0
NOV	4030	474	--	0
DEC	21450	3060	--	2
JAN	4470	103	--	0
FEB	30990	9760	--	6
MAR	37440	4750	--	3
APR	21450	2350	--	2
MAY	52870	5690	--	4
JUNE	1800	90	--	0
JULY	823	33	--	0
AUG	619	26	--	0
SEPT	724	36	--	0
SUMMARY	181800	26520	82	17
WATER YEAR 1970				
OCT	874	15	--	0
NOV	1070	21	--	0
DEC	2110	55	--	0
JAN	3560	141	--	0
FEB	3240	284	--	0
MAR	13860	2330	--	2
APR	11140	1470	--	1
MAY	5310	491	--	0
JUNE	1310	49	--	0
JULY	686	8	--	0
AUG	619	25	--	0
SEPT	916	31	--	0
SUMMARY	44700	4920	15	3

SAN JACINTO RIVER BASIN

EAST FORK SAN JACINTO RIVER NEAR CLEVELAND--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FeET	
WATER YEAR 1971					
OCT	1990	69	--	0	.0025
NOV	1060	28	--	0	.0019
DEC	1250	26	--	0	.0015
JAN	1160	32	--	0	.0020
FEB	1120	29	--	0	.0019
MAR	1050	33	--	0	.0023
APR	924	36	--	0	.0029
MAY	5700	320	--	0	.0041
JUNE	751	31	--	0	.0030
JULY	350	4	--	0	.0008
AUG	631	9	--	0	.0010
SEPT	543	17	--	0	.0023
SUMMARY	16530	634	2	0	.0028

BRAZOS RIVER BASIN

8084800 CALIFORNIA CREEK NEAR STAMFORD

Net Drainage Area: 465 square miles.

Location: Farm Road 142 bridge, 9 miles east of Stamford.
Flow records are from stream-gaging station at same location.

Records Available: July 1964 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1971	82,140	99,750	215	65	0.089
MIN	1970	3,770	2,500	5	2	0.049
AVG	7 yrs	22,468	32,714	70	21	0.107

WATER YEAR 1966

OCT	5530	12310	--	8	.1635
NOV	61	1	--	0	.0012
DEC	36	0	--	0	.0000
JAN	45	0	--	0	.0000
FEB	31	0	--	0	.0000
MAR	6	0	--	0	.0000
APR	2500	3820	--	3	.1121
MAY	1570	2210	--	1	.1035
JUNE	19	0	--	0	.0000
JULY	166	396	--	0	.1752
AUG	263	496	--	0	.1385
SEPT	1830	2200	--	1	.0883
SUMMARY	12060	21430	46	14	.1305

WATER YEAR 1967

OCT	63	0	--	0	.0000
NOV	47	0	--	0	.0000
DEC	63	0	--	0	.0000
JAN	62	0	--	0	.0000
FEB	37	0	--	0	.0000
MAR	53	0	--	0	.0000
APR	15	0	--	0	.0000
MAY	756	6050	--	4	.5879
JUNE	113	68	--	0	.0442
JULY	1800	5870	--	4	.2396
AUG	25	0	--	0	.0000
SEPT	1930	2350	--	2	.0894
SUMMARY	4960	14340	31	9	.2124

BRAZOS RIVER BASIN

CALIFORNIA CREEK NEAR STAMFORD--Continued

	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
WATER YEAR 1968					
OCT	36	0	--	0	.0000
NOV	60	0	--	0	.0000
DEC	79	0	--	0	.0000
JAN	5160	6960	--	5	.0991
FEB	622	312	--	0	.0368
MAR	1890	1250	--	1	.0486
APR	401	46	--	0	.0084
MAY	402	86	--	0	.0157
JUNE	416	63	--	0	.0111
JULY	70	24	--	0	.0252
AUG	1	0	--	0	.0000
SEPT	1	0	--	0	.0000
SUMMARY	9140	8740	19	6	.0702
WATER YEAR 1969					
OCT	0	0	--	0	.0000
NOV	64	19	--	0	.0218
DEC	36	0	--	0	.0000
JAN	33	0	--	0	.0000
FEB	52	1	--	0	.0014
MAR	154	40	--	0	.0191
APR	227	10	--	0	.0032
MAY	18130	31670	--	21	.1283
JUNE	354	10	--	0	.0021
JULY	29	0	--	0	.0000
AUG	241	50	--	0	.0152
SEPT	2670	2210	--	1	.0608
SUMMARY	21990	34010	73	22	.1136
WATER YEAR 1970					
OCT	247	10	--	0	.0030
NOV	210	2	--	0	.0007
DEC	445	32	--	0	.0053
JAN	532	34	--	0	.0047
FEB	270	8	--	0	.0022
MAR	526	24	--	0	.0034
APR	915	2320	--	2	.1863
MAY	493	72	--	0	.0107
JUNE	123	0	--	0	.0000
JULY	4	0	--	0	.0000
AUG	4	0	--	0	.0000
SEPT	5	0	--	0	.0000
SUMMARY	3770	2500	5	2	.0487

BRAZOS RIVER BASIN

CALIFORNIA CREEK NEAR STAMFORD--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	8	0	--	0	.0000
NOV	7	0	--	0	.0000
DEC	10	0	--	0	.0000
JAN	15	0	--	0	.0000
FEB	17	0	--	0	.0000
MAR	19	0	--	0	.0000
APR	114	14	--	0	.0090
MAY	8250	27080	--	18	.2411
JUNE	2020	3310	--	2	.1204
JULY	78	3	--	0	.0028
AUG	57180	59490	--	39	.0764
SEPT	14410	9850	--	6	.0502
SUMMARY	82140	99750	215	65	.0892

BRAZOS RIVER BASIN

8087300 CLEAR FORK BRAZOS RIVER AT ELIASVILLE

Net Drainage Area: 5,721 square miles.

Location: Farm Road 1974 bridge, 400 ft northwest of Eliasville. Flow records are from stream-gaging station at same location.

Records Available: May 1966 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1969	346,200	471,300	82	309	0.100
MIN 1967	31,400	13,800	2	9	0.032
AVG 5 yrs	194,920	224,916	39	148	0.085

WATER YEAR 1966

OCT					
NOV					
DEC					
JAN					
FEB					
MAR					
APR					
MAY	56530	97690	--	64	.1269
JUNE	5740	361	--	0	.0046
JULY	111	2	--	0	.0013
AUG	5910	1060	--	1	.0132
SEPT	81780	172100	--	113	.1546

SUMMARY

WATER YEAR 1967

OCT	1260	50	--	0	.0029
NOV	781	22	--	0	.0021
DEC	1120	35	--	0	.0023
JAN	895	28	--	0	.0023
FEB	512	10	--	0	.0014
MAR	555	9	--	0	.0012
APR	1470	239	--	0	.0119
MAY	1710	801	--	1	.0344
JUNE	6520	920	--	1	.0104
JULY	5160	7030	--	5	.1001
AUG	176	0	--	0	.0000
SEPT	11240	4660	--	3	.0305
SUMMARY	31400	13800	2	9	.0323

BRAZOS RIVER BASIN

CLEAR FORK BRAZOS RIVER AT ELIASVILLE--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	1480	115	--	0	.0057
NOV	695	22	--	0	.0023
DEC	1550	37	--	0	.0018
JAN	60300	144000	--	94	.1754
FEB	8380	373	--	0	.0033
MAR	37360	11110	--	7	.0218
APR	88670	56720	--	37	.0470
MAY	19310	3530	--	2	.0134
JUNE	10080	2040	--	1	.0149
JULY	26320	11250	--	7	.0314
AUG	140	4	--	0	.0021
SEPT	148	0	--	0	.0000
SUMMARY	254400	229200	40	150	.0662
WATER YEAR 1969					
OCT	4	0	--	0	.0000
NOV	240	3	--	0	.0009
DEC	800	8	--	0	.0007
JAN	942	102	--	0	.0080
FEB	2000	31	--	0	.0011
MAR	6670	487	--	0	.0054
APR	10620	4790	--	3	.0331
MAY	260300	353200	--	232	.0997
JUNE	11130	3300	--	2	.0218
JULY	783	52	--	0	.0049
AUG	845	51	--	0	.0044
SEPT	51880	109300	--	72	.1548
SUMMARY	346200	471300	82	309	.1000
WATER YEAR 1970					
OCT	6500	244	--	0	.0028
NOV	4830	91	--	0	.0014
DEC	9650	4070	--	3	.0310
JAN	5450	190	--	0	.0026
FEB	4700	119	--	0	.0019
MAR	13130	204	--	0	.0011
APR	23720	33210	--	22	.1029
MAY	48800	16670	--	11	.0251
JUNE	8470	480	--	0	.0042
JULY	78	0	--	0	.0000
AUG	4	0	--	0	.0000
SEPT	2	0	--	0	.0000
SUMMARY	125300	55280	10	36	.0324

BRAZOS RIVER BASIN

CLEAR FORK BRAZOS RIVER AT ELIASVILLE--Continued

STREAMFLOW ACRE-FOOT SUSPENDED SEDIMENT LOAD OF STREAM TONS TONS PER SQ MI ACRE-FOOT DRY SEDIMENT PCT BY WEIGHT

WATER YEAR 1971

Month	Streamflow (acre-feet)	Suspended Sediment Load (tons)	Suspended Sediment Load (tons per sq mi)	Streamflow (acre-feet)	Dry Sediment Pct by Weight
OCT	77	2	--	0	.0019
NOV	27	0	--	0	.0000
DEC	12	0	--	0	.0000
JAN	174	0	--	0	.0000
FEB	498	6	--	0	.0009
MAR	174	0	--	0	.0000
APR	87	1	--	0	.0008
MAY	6310	8090	--	5	.0942
JUNE	20570	69030	--	45	.2465
JULY	1050	76	--	0	.0053
AUG	115600	210500	--	138	.1338
SEPT	72670	67340	--	44	.0681
SUMMARY	217300	355000	62	233	.1201

BRAZOS RIVER BASIN

8088000 BRAZOS RIVER NEAR SOUTH BEND

Net Drainage Area: 12,360 square miles.

Location: State Highway 67 bridge, 2 miles northeast of South Bend. Flow records are from stream-gaging station at same location.

Records Available: January 15, 1942 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1957	2,461,000	15,257,759	1,234	10,006	0.455
MIN 1964	149,017	593,130	48	389	0.292
AVG 28 yrs	568,375	4,528,298	366	2,970	0.585

WATER YEAR	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1966					
OCT	67580	884300	--	580	.9613
NOV	7070	554	--	0	.0058
DEC	3390	95	--	0	.0021
JAN	3280	89	--	0	.0020
FEB	3160	134	--	0	.0031
MAR	2370	127	--	0	.0039
APR	154400	0	--	0	.0000
MAY	128000	834500	--	547	.4789
JUNE	15280	27110	--	18	.1303
JULY	1590	315	--	0	.0146
AUG	66040	1263000	--	828	1.4045
SEPT	346700	2187000	--	1430	.4633
SUMMARY	798900	5197000	420	3409	.4779

WATER YEAR 1967					
OCT	16420	2730	--	2	.0122
NOV	5180	316	--	0	.0045
DEC	4640	220	--	0	.0035
JAN	3710	163	--	0	.0032
FEB	2140	57	--	0	.0020
MAR	2280	90	--	0	.0029
APR	52290	492300	--	323	.6916
MAY	5650	3230	--	2	.0420
JUNE	100800	2456000	--	1610	1.7899
JULY	137500	1347000	--	883	.7197
AUG	9180	11080	--	7	.0887
SEPT	35120	102700	--	67	.2148
SUMMARY	374900	4416000	357	2896	.8653

BRAZOS RIVER BASIN

BRAZOS RIVER NEAR SOUTH BEND--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	6910	3590	--	2	.0382
NOV	2530	186	--	0	.0054
DEC	3360	247	--	0	.0054
JAN	107200	354100	--	232	.2427
FEB	15010	1240	--	1	.0061
MAR	67580	160900	--	106	.1749
APR	88530	150500	--	99	.1249
MAY	52780	161900	--	106	.2253
JUNE	68630	921300	--	604	.9862
JULY	69320	314100	--	206	.3329
AUG	9810	41420	--	27	.3102
SEPT	2220	1890	--	1	.0625
SUMMARY	493900	2111000	171	1385	.3140
WATER YEAR 1969					
OCT	671	31	--	0	.0034
NOV	1700	1200	--	1	.0519
DEC	6230	17930	--	12	.2114
JAN	2590	35	--	0	.0010
FEB	5250	771	--	1	.0108
MAR	20670	22400	--	15	.0796
APR	24720	50100	--	33	.1489
MAY	391700	2227000	--	1460	.4177
JUNE	25980	43180	--	28	.1221
JULY	2440	502	--	0	.0151
AUG	1400	694	--	0	.0364
SEPT	160400	1917000	--	1260	.8780
SUMMARY	643800	4281000	346	2808	.4885
WATER YEAR 1970					
OCT	39590	343600	--	225	.6376
NOV	34610	177800	--	117	.3774
DEC	20390	17900	--	12	.0645
JAN	13720	1710	--	1	.0092
FEB	10110	1360	--	1	.0099
MAR	46630	181000	--	119	.2852
APR	38110	90150	--	59	.1738
MAY	72220	88130	--	58	.0896
JUNE	16390	57180	--	38	.2563
JULY	560	62	--	0	.0081
AUG	19	0	--	0	.0000
SEPT	771	83	--	0	.0079
SUMMARY	293100	959000	78	629	.2404

BRAZOS RIVER BASIN

BRAZOS RIVER NEAR SOUTH BEND--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	2260	659	--	0	.0214
NOV	542	21	--	0	.0028
DEC	372	2	--	0	.0004
JAN	758	31	--	0	.0030
FEB	830	13	--	0	.0012
MAR	441	4	--	0	.0007
APR	49	4	--	0	.0060
MAY	31870	615200	--	404	1.4181
JUNE	52390	651300	--	427	.9133
JULY	2910	878	--	1	.0222
AUG	299000	2430000	--	1590	.5970
SEPT	147800	1209000	--	793	.6009
SUMMARY	539300	4907000	397	3219	.6685

BRAZOS RIVER BASIN

8088500 POSSUM KINGDOM RESERVOIR NEAR GRAFORD

Net Drainage Area: 13,310 square miles.

Location: Samples taken in tailrace and over spillway. Outflow records were obtained from computed releases as determined by Brazos River Authority. Outflow records for period October 1953 through September 1959 are streamflow as gaged at Brazos River near Palo Pinto station below Possum Kingdom Reservoir. Inflow estimates were computed by adjusting Brazos River near South Bend streamflow between that gage and Morris Sheppard Dam.

Records Available: January 15, 1942 to date, except for October 1960.

I. RATIOS OF RESERVOIR CAPACITY TO INFLOW

	RECORD PERIOD	RESERVOIR CAPACITY <u>a/</u> ACRE-FEET	RESERVOIR INFLOW ACRE-FEET	RATIO C/I
MAX	1952	652,748	52,200	12.50
MIN	1957	623,389	2,953,200	0.21
AVG	1942-71	620,418	722,539	1.56 <u>b/</u>
	1966	557,683	958,680	0.58
	1967	551,156	449,880	1.23
	1968	545,612	592,680	0.92
	1969	542,960	772,560	0.70
	1970	537,584	351,720	1.53
	1971	536,380	647,040	0.83

II. SEDIMENT OUTFLOW FROM RESERVOIR

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
MAX	1943	851,300	624,700	410	0.054
MIN	1966	103,004	913	1	0.001
AVG	28 yr <u>c/</u>	611,141	439,115	83	0.043
	1966	103,000	912	1	0.001
	1967	328,600	4,040	3	0.001
	1968	590,500	3,790	3	0.001
	1969	821,400	4,560	3	0.000
	1970	351,300	2,510	2	0.001
	1971	553,400	3,030	2	0.000

BRAZOS RIVER BASIN

POSSUM KINGDOM RESERVOIR NEAR GRAFORD--Continued

III. RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
Apr. 29- May 3 1966	28,518	229	0	0.001
Sept. 9- 11, 15-20 1966	365	1	0	0.000
July 19-21 1967	57,485	467	0	0.001
Jan. 22-24 1968	49,646	300	0	0.000
May 5-13 1969	311,784	1732	1	0.000
May 18, 20 23, 1969	41,421	201	0	0.000
Sept. 22- Oct. 6 1969 e/	131,437	375	0	0.000
Aug. 30- Sept. 5 1971	64,532	326	0	0.000
Sept. 30-31 1971	23,157	94	0	0.003

- a/ Estimates of reservoir capacity were obtained by correlating adjusted suspended-sediment measurements taken at South Bend with depletion of reservoir capacity occurring between original capacity (May 1941) and deposition survey of February 1949. This correlation was then projected forward.
- b/ Average for the 28-year period.
- c/ Record for 1960 incomplete and not included.
- d/ Combined releases from turbines, floodgates, and spillway as computed by the Brazos River Authority. These flood discharges are included in the discharges shown for their respective water years.
- e/ No flood. Discharged to hold elevation down to permit installation of stainless steel channel in concrete rollway for future use in gate repair and maintenance.

BRAZOS RIVER BASIN
8093500 AQUILLA CREEK NEAR AQUILLA

Net Drainage Area: 306 square miles.

Location: Farm Road 1304 bridge, 1 mile southeast of Aquilla.
Flow records are from stream-gaging station at same location.

Records Available: June 1963 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1968	240,400	863,300	2,821	566	0.264
MIN 1964	7,278	21,438	70	14	0.216
AVG 8 yrs	84,004	324,680	1,061	213	0.284

WATER YEAR 1966

OCT	147	6	--	0	.0030
NOV	1750	8010	--	5	.3362
DEC	385	42	--	0	.0080
JAN	283	3	--	0	.0008
FEB	1170	1200	--	1	.0755
MAR	861	144	--	0	.0123
APR	71560	309500	--	203	.3178
MAY	23460	68860	--	45	.2156
JUNE	704	554	--	0	.0578
JULY	99	1	--	0	.0007
AUG	2000	4310	--	3	.1584
SEPT	576	1660	--	1	.2122
SUMMARY	103000	394300	1289	259	.2812

WATER YEAR 1967

OCT	29	2	--	0	.0051
NOV	41	0	--	0	.0000
DEC	72	0	--	0	.0000
JAN	88	0	--	0	.0000
FEB	78	0	--	0	.0000
MAR	225	251	--	0	.0820
APR	6620	31730	--	21	.3521
MAY	3730	21070	--	14	.4150
JUNE	3790	21680	--	14	.4202
JULY	1760	4850	--	3	.2024
AUG	1	0	--	0	.0000
SEPT	704	1480	--	1	.1544
SUMMARY	17140	81060	265	53	.3474

BRAZOS RIVER BASIN

AQUILLA CREEK NEAR AQUILLA--Continued

	STREAMFLOW		SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT
	ACRE-Feet		Tons	Tons per sq mi	Pct by Weight
WATER YEAR 1968					
OCT	25110	112600	--	74	.3294
NOV	4570	7670	--	5	.1233
DEC	5440	6600	--	4	.0891
JAN	23890	39460	--	26	.1213
FEB	7180	3590	--	2	.0367
MAR	24770	51390	--	34	.1524
APR	12620	22300	--	15	.1298
MAY	124100	573600	--	376	.3395
JUNE	11830	45920	--	30	.2852
JULY	651	182	--	0	.0205
AUG	81	3	--	0	.0027
SEPT	189	24	--	0	.0093
SUMMARY	240400	863300	2821	566	.2638
WATER YEAR 1969					
OCT	1290	152	--	0	.0087
NOV	2470	3830	--	3	.1139
DEC	4040	6230	--	4	.1133
JAN	404	4	--	0	.0007
FEB	3320	4560	--	3	.1009
MAR	12680	31830	--	21	.1844
APR	3980	3500	--	2	.0646
MAY	75880	255000	--	167	.2469
JUNE	543	68	--	0	.0092
JULY	8	0	--	0	.0000
AUG	31	0	--	0	.0000
SEPT	92	14	--	0	.0112
SUMMARY	104700	305200	997	200	.2141
WATER YEAR 1970					
OCT	202	76	--	0	.0276
NOV	66	5	--	0	.0056
DEC	922	1210	--	1	.0964
JAN	300	15	--	0	.0037
FEB	9930	22200	--	15	.1642
MAR	21980	59720	--	39	.1996
APR	4110	7960	--	5	.1423
MAY	1830	6370	--	4	.2557
JUNE	260	176	--	0	.0497
JULY	59	0	--	0	.0000
AUG	6	0	--	0	.0000
SEPT	269	249	--	0	.0680
SUMMARY	39930	97980	320	64	.1803

BRAZOS RIVER BASIN

AQUILLA CREEK NEAR AQUILLA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	15070	76170	--	50	.3713
NOV	573	40	--	0	.0051
DEC	293	18	--	0	.0045
JAN	203	7	--	0	.0025
FEB	1080	7320	--	5	.4979
MAR	186	130	--	0	.0513
APR	12810	59720	--	39	.3425
MAY	17450	80710	--	53	.3398
JUNE	448	107	--	0	.0175
JULY	1440	5080	--	3	.2592
AUG	696	1200	--	1	.1267
SEPT	1580	6170	--	4	.2869
SUMMARY	51840	236700	774	155	.3355

BRAZOS RIVER BASIN

8094800 NORTH BOSQUE RIVER AT HICO

Net Drainage Area: 357 square miles.

Location: U.S. Highway 281 bridge near south boundary of Hico.
Flow records are from stream-gaging station at same location.

Records Available: April 1962 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1968	90,680	120,800	338	79	0.098
MIN 1967	3,680	536	2	0	0.011
AVG 9 yrs	35,709	44,343	124	29	0.091

WATER YEAR	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1966					
OCT	380	347	--	0	.0671
NOV	360	27	--	0	.0055
DEC	154	0	--	0	.0000
JAN	162	0	--	0	.0000
FEB	870	1600	--	1	.1350
MAR	116	0	--	0	.0000
APR	5030	0	--	0	.0000
MAY	6210	5860	--	4	.0693
JUNE	3720	8720	--	6	.1721
JULY	462	36	--	0	.0057
AUG	1550	2790	--	2	.1322
SEPT	2870	4250	--	3	.1087
SUMMARY	21890	23630	66	15	.0793

WATER YEAR 1967					
OCT	395	11	--	0	.0020
NOV	345	8	--	0	.0000
DEC	229	0	--	0	.0000
JAN	245	0	--	0	.0000
FEB	197	0	--	0	.0000
MAR	225	3	--	0	.0010
APR	387	100	--	0	.0190
MAY	479	154	--	0	.0236
JUNE	66	4	--	0	.0045
JULY	590	138	--	0	.0172
AUG	0	0	--	0	.0000
SEPT	523	118	--	0	.0166
SUMMARY	3680	536	2	0	.0107

BRAZOS RIVER BASIN

NORTH BOSQUE RIVER AT HICO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	10	0	--	0	.0000
NOV	113	0	--	0	.0000
DEC	92	0	--	0	.0000
JAN	20000	40210	--	26	.1477
FEB	2970	62	--	0	.0015
MAR	21110	35230	--	23	.1226
APR	6810	546	--	0	.0059
MAY	31630	41310	--	27	.0959
JUNE	2830	197	--	0	.0051
JULY	2510	1250	--	1	.0366
AUG	2290	1940	--	1	.0622
SEPT	315	10	--	0	.0023
SUMMARY	90680	120800	338	79	.0979
WATER YEAR 1969					
OCT	285	8	--	0	.0021
NOV	276	3	--	0	.0008
DEC	242	0	--	0	.0000
JAN	265	1	--	0	.0003
FEB	270	7	--	0	.0019
MAR	1090	435	--	0	.0293
APR	6750	4380	--	3	.0477
MAY	12990	7050	--	5	.0399
JUNE	1050	89	--	0	.0062
JULY	4990	10210	--	7	.1503
AUG	1630	52	--	0	.0023
SEPT	124	0	--	0	.0000
SUMMARY	29960	22240	62	15	.0545
WATER YEAR 1970					
OCT	4330	3910	--	3	.0663
NOV	728	10	--	0	.0010
DEC	3120	1290	--	1	.0304
JAN	2440	68	--	0	.0020
FEB	6260	2750	--	2	.0323
MAR	18620	11580	--	8	.0457
APR	9810	1130	--	1	.0085
MAY	10720	12640	--	8	.0866
JUNE	7300	3710	--	2	.0373
JULY	625	17	--	0	.0020
AUG	226	1	--	0	.0003
SEPT	2580	484	--	0	.0138
SUMMARY	66760	37590	105	25	.0414

BRAZOS RIVER BASIN

NORTH BOSQUE RIVER AT HICO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	919	100	--	0	.0080
NOV	409	12	--	0	.0022
DEC	450	0	--	0	.0000
JAN	325	0	--	0	.0000
FEB	337	3	--	0	.0007
MAR	207	2	--	0	.0007
APR	210	2	--	0	.0007
MAY	4210	6050	--	4	.1056
JUNE	1330	943	--	1	.0521
JULY	654	395	--	0	.0444
AUG	620	170	--	0	.0201
SEPT	207	5	--	0	.0018
SUMMARY	9880	7680	22	5	.0571

BRAZOS RIVER BASIN

8100500 LEON RIVER AT GATESVILLE

Net Drainage Area: 2,365 square miles.

Location: U.S. Highway 84 bridge, 1 mile west of Gatesville.
Flow records are from stream-gaging station at same location.

Records Available: March 1953 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1957	574,700	1,029,708	435	609	0.132
MIN 1954	34,570	74,210	31	49	0.158
AVG 17 yrs	222,920	322,334	136	211	0.106

STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
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WATER YEAR 1966

OCT	3500	1540	--	1	.0323
NOV	30300	110000	--	72	.2668
DEC	4770	534	--	0	.0082
JAN	3620	101	--	0	.0020
FEB	7220	1850	--	1	.0188
MAR	5360	464	--	0	.0064
APR	34080	42100	--	28	.0907
MAY	41400	38170	--	25	.0677
JUNE	32670	26770	--	18	.0602
JULY	25440	9490	--	6	.0274
AUG	12590	18020	--	12	.1051
SEPT	17800	16250	--	11	.0671
SUMMARY	218800	265300	112	174	.0891

WATER YEAR 1967

OCT	2040	130	--	0	.0047
NOV	1220	83	--	0	.0050
DEC	1110	99	--	0	.0066
JAN	1100	9	--	0	.0006
FEB	1040	51	--	0	.0036
MAR	1100	75	--	0	.0050
APR	6190	10350	--	7	.1228
MAY	12090	11200	--	7	.0681
JUNE	14160	9800	--	6	.0508
JULY	30080	10830	--	7	.0264
AUG	728	301	--	0	.0304
SEPT	1080	228	--	0	.0155
SUMMARY	71950	43160	18	28	.0441

BRAZOS RIVER BASIN

LEON RIVER AT GATESVILLE--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	319	71	--	0	.0164
NOV	242	5	--	0	.0015
DEC	417	12	--	0	.0021
JAN	57290	98240	--	64	.1260
FEB	85960	57080	--	37	.0488
MAR	83250	122000	--	80	.1077
APR	86980	101300	--	66	.0856
MAY	135500	277400	--	182	.1504
JUNE	55290	68450	--	45	.0909
JULY	10900	11680	--	8	.0787
AUG	1910	194	--	0	.0075
SEPT	1200	96	--	0	.0059
SUMMARY	519200	736500	311	483	.1042
WATER YEAR 1969					
OCT	808	29	--	0	.0026
NOV	860	19	--	0	.0016
DEC	1520	46	--	0	.0022
JAN	1510	33	--	0	.0016
FEB	1470	170	--	0	.0085
MAR	4220	1870	--	1	.0326
APR	42570	79780	--	52	.1377
MAY	84840	135700	--	89	.1175
JUNE	2500	414	--	0	.0122
JULY	302	25	--	0	.0061
AUG	1210	93	--	0	.0056
SEPT	518	9	--	0	.0013
SUMMARY	142300	218200	92	143	.1126
WATER YEAR 1970					
OCT	5240	8950	--	6	.1255
NOV	6660	4790	--	3	.0528
DEC	9760	893	--	1	.0067
JAN	23520	7910	--	5	.0247
FEB	17640	11820	--	8	.0492
MAR	100100	86120	--	56	.0632
APR	54030	41480	--	27	.0564
MAY	26520	15320	--	10	.0424
JUNE	21870	14780	--	10	.0496
JULY	1040	121	--	0	.0085
AUG	328	17	--	0	.0038
SEPT	12670	32520	--	21	.1886
SUMMARY	279400	224700	95	147	.0591

BRAZOS RIVER BASIN

LEON RIVER AT GATESVILLE--Continued

WATER YEAR 1971	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
OCT	3470	633	--	0	.0134
NOV	1540	81	--	0	.0039
DEC	1770	180	--	0	.0075
JAN	1460	97	--	0	.0049
FEB	1260	117	--	0	.0068
MAR	1220	110	--	0	.0066
APR	1390	317	--	0	.0168
MAY	1200	2210	--	1	.1353
JUNE	141	16	--	0	.0083
JULY	23370	89130	--	58	.2802
AUG	6130	1690	--	1	.0203
SEPT	1680	358	--	0	.0157
SUMMARY	44630	94940	40	62	.1563

BRAZOS RIVER BASIN

8109900 SOMERVILLE LAKE NEAR SOMERVILLE

Net Drainage Area: 1,008 square miles.

Location: State Highway 36 bridge about 1 mile downstream from Somerville Reservoir. Outflow records are from stream-gaging station Yegua Creek near Somerville at the same location.

Records Available: June 1962 to date. Record represents reservoir outflow beginning February 3, 1966.

I. RATIOS OF RESERVOIR CAPACITY TO INFLOW

	RECORD PERIOD	RESERVOIR CAPACITY <u>a/</u> ACRE-FEET	RESERVOIR INFLOW <u>b/</u> ACRE-FEET	RATIO C/I
MAX	1971	504,700	21,041	23.99
MIN	1968	506,200	21,640	1.03
AVG	1967-71	505,700	248,803	8.81 <u>c/</u>
	1967	506,700	31,475	16.10
	1968	506,200	491,640	1.03
	1969	505,700	395,050	1.28
	1970	505,200	304,810	1.66
	1971	504,700	21,041	23.99

II. SEDIMENT OUTFLOW FROM RESERVOIR

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
MAX	1969	396,500	25,760	26	0.005
MIN	1971	493	68	0	0.010
AVG	5 yrs	185,265	8,746	7	0.006
	1967	3,830	681	0	0.013
	1968	274,300	6,760	4	0.002
	1969	396,500	25,760	26	0.005
	1970	251,200	10,400	7	0.003
	1971	493	68	0	0.010

III. SEDIMENT DISCHARGE WITH FLOOD RELEASES IN 1967-71

Reservoir spills were not experienced during report period.

- a/ Estimates of reservoir capacity were determined from planned sediment retention used in reservoir design.
- b/ Reservoir inflow determined from net change in storage for water year, outflow, and estimated evaporation loss.
- c/ Average for the period 1967-71.

BRAZOS RIVER BASIN

8110500 NAVASOTA RIVER NEAR EASTERLY

Net Drainage Area: 940 square miles.

Location: U.S. Highway 79 bridge, 7 miles northeast of Easterly. Flow records are from stream-gaging station at same location.

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

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1944	592,700	889,340	946	584	0.110
MIN	1963	11,199	3,078	3	0	0.020
AVG	26 yrs	282,411	176,655	188	116	0.046

WATER YEAR 1966

OCT	194	5	--	0	.0019
NOV	930	86	--	0	.0068
DEC	3990	1330	--	1	.0245
JAN	2740	583	--	0	.0156
FEB	18590	6730	--	4	.0266
MAR	9780	2110	--	1	.0159
APR	223800	47990	--	31	.0158
MAY	74160	9900	--	6	.0098
JUNE	881	66	--	0	.0055
JULY	138	3	--	0	.0016
AUG	29870	7250	--	5	.0178
SEPT	75190	14350	--	9	.0140
SUMMARY	440300	90400	96	59	.0151

WATER YEAR 1967

OCT	2010	202	--	0	.0074
NOV	562	20	--	0	.0026
DEC	1200	46	--	0	.0028
JAN	1040	51	--	0	.0036
FEB	839	64	--	0	.0056
MAR	1190	88	--	0	.0054
APR	9870	4910	--	3	.0365
MAY	8150	3240	--	2	.0292
JUNE	7320	2830	--	2	.0284
JULY	282	16	--	0	.0042
AUG	53	0	--	0	.0000
SEPT	2770	1580	--	1	.0419
SUMMARY	35280	13050	14	9	.0272

BRAZOS RIVER BASIN

NAVASOTA RIVER NEAR EASTERLY--Continued

MONTH	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM TONS	TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	742	181	--	0	.0179
NOV	22100	5490	--	4	.0182
DEC	34410	11970	--	8	.0256
JAN	128000	25260	--	17	.0145
FEB	25970	7270	--	5	.0206
MAR	65300	14630	--	10	.0165
APR	82040	19330	--	13	.0173
MAY	143700	4240	--	3	.0022
JUNE	106900	5200	--	3	.0036
JULY	11890	869	--	1	.0054
AUG	370	101	--	0	.0201
SEPT	592	84	--	0	.0104
SUMMARY	622000	94630	101	62	.0112
WATER YEAR 1969					
OCT	277	16	--	0	.0042
NOV	3460	1840	--	1	.0391
DEC	22380	7410	--	5	.0243
JAN	10030	2700	--	2	.0198
FEB	55000	11060	--	7	.0148
MAR	113800	19310	--	13	.0125
APR	154800	27880	--	18	.0132
MAY	44350	7800	--	5	.0129
JUNE	808	116	--	0	.0105
JULY	237	19	--	0	.0059
AUG	2150	771	--	1	.0263
SEPT	157	14	--	0	.0066
SUMMARY	407500	78940	84	52	.0142
WATER YEAR 1970					
OCT	1400	676	--	0	.0355
NOV	6500	3260	--	2	.0368
DEC	61790	14410	--	9	.0171
JAN	17850	3770	--	2	.0155
FEB	36150	9360	--	6	.0190
MAR	109800	18630	--	12	.0125
APR	29000	6830	--	4	.0173
MAY	1750	132	--	0	.0055
JUNE	676	42	--	0	.0046
JULY	108	0	--	0	.0000
AUG	57	0	--	0	.0000
SEPT	2100	1140	--	1	.0399
SUMMARY	267200	58250	62	38	.0160

BRAZOS RIVER BASIN

NAVASOTA RIVER NEAR EASTERLY--Continued

	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
WATER YEAR 1971					
OCT	19080	8930	--	6	.0344
NOV	917	62	--	0	.0050
DEC	632	52	--	0	.0060
JAN	653	50	--	0	.0056
FEB	8740	5600	--	4	.0471
MAR	1450	311	--	0	.0158
APR	868	172	--	0	.0146
MAY	2080	1420	--	1	.0502
JUNE	112	4	--	0	.0026
JULY	240	23	--	0	.0070
AUG	612	164	--	0	.0197
SEPT	769	498	--	0	.0476
SUMMARY	36150	17290	18	11	.0351

BRAZOS RIVER BASIN

8114000 BRAZOS RIVER AT RICHMOND

Net Drainage Area: 34,780 square miles.

Location: U.S. Highway 59 bridge on northeast edge of Richmond. Flow records are from stream-gaging station at same location. Samples were obtained upriver near Rosenberg prior to April 13, 1932.

Records Available: June 11, 1924 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1941	16,120,000	97,306,510	2,792	63,824	0.443
MIN 1971	1,215,000	1,044,000	30	685	0.063
AVG 47 yrs	5,189,529	24,870,932	715	16,313	0.352

WATER YEAR 1966

OCT	128000	33060	--	22	.0190
NOV	417500	762700	--	500	.1342
DEC	481800	685000	--	449	.1044
JAN	238100	63560	--	42	.0196
FEB	420900	446800	--	293	.0780
MAR	401300	509100	--	334	.0932
APR	679300	4524000	--	2970	.4892
MAY	2256000	9446000	--	6200	.3076
JUNE	325400	189600	--	124	.0428
JULY	119500	17950	--	12	.0110
AUG	228200	272300	--	179	.0877
SEPT	668200	1534000	--	1010	.1687
SUMMARY	6364000	18484000	531	12124	.2134

WATER YEAR 1967

OCT	310300	251800	--	165	.0596
NOV	90010	2890	--	2	.0024
DEC	84870	1820	--	1	.0016
JAN	71240	2230	--	1	.0023
FEB	47400	2910	--	2	.0045
MAR	33130	2210	--	1	.0049
APR	125500	139200	--	91	.0815
MAY	174700	305000	--	200	.1283
JUNE	172900	250500	--	164	.1064
JULY	84430	8180	--	5	.0071
AUG	80180	5380	--	4	.0049
SEPT	76430	10430	--	7	.0100
SUMMARY	1351000	982600	28	644	.0534

BRAZOS RIVER BASIN

BRAZOS RIVER AT RICHMOND--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	63930	15300	--	10	.0176
NOV	274000	1066000	--	699	.2858
DEC	177600	215700	--	141	.0892
JAN	1116000	5272000	--	3460	.3470
FEB	723200	1124000	--	737	.1142
MAR	931000	2419000	--	1590	.1909
APR	965000	1715000	--	1130	.1306
MAY	2233000	9636000	--	6320	.3170
JUNE	1668000	5386000	--	3530	.2372
JULY	1051000	2512000	--	1650	.1756
AUG	167300	29100	--	19	.0128
SEPT	231900	228000	--	150	.0722
SUMMARY	9602000	29618000	852	19427	.2266
WATER YEAR 1969					
OCT	194300	71500	--	47	.0270
NOV	177000	112100	--	74	.0465
DEC	552200	1001000	--	656	.1332
JAN	159900	27250	--	18	.0125
FEB	517100	1214000	--	796	.1725
MAR	788400	1871000	--	1230	.1743
APR	1281000	4732000	--	3100	.2714
MAY	1454000	4912000	--	3220	.2482
JUNE	440100	299200	--	196	.0499
JULY	172400	64760	--	42	.0276
AUG	97220	13960	--	9	.0105
SEPT	116700	21790	--	14	.0137
SUMMARY	5950000	14341000	412	9406	.1771
WATER YEAR 1970					
OCT	74810	4890	--	3	.0048
NOV	146300	105500	--	69	.0530
DEC	276800	488200	--	320	.1296
JAN	335000	239500	--	157	.0525
FEB	290600	357900	--	235	.0905
MAR	1369000	5289000	--	3470	.2838
APR	784200	877300	--	575	.0822
MAY	619000	690600	--	453	.0820
JUNE	427500	436300	--	286	.0750
JULY	91790	7760	--	5	.0062
AUG	81410	4790	--	3	.0043
SEPT	179900	203000	--	133	.0829
SUMMARY	4676000	8705000	250	5710	.1368

BRAZOS RIVER BASIN

BRAZOS RIVER AT RICHMOND--Continued

WATER YEAR 1971	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
OCT	376600	657800	--	431	.1283
NOV	102400	27510	--	18	.0197
DEC	54490	1470	--	1	.0020
JAN	69620	3970	--	3	.0042
FEB	38980	1880	--	1	.0035
MAR	47800	5870	--	4	.0090
APR	56390	13900	--	9	.0181
MAY	101800	160400	--	105	.1157
JUNE	52630	7290	--	5	.0102
JULY	44130	3950	--	3	.0066
AUG	157200	110700	--	73	.0517
SEPT	113200	49040	--	32	.0318
SUMMARY	1215000	1044000	30	685	.0631

COLORADO RIVER BASIN

8146000 SAN SABA RIVER AT SAN SABA

Net Drainage Area: 3,042 square miles.

Location: State Highway 16 bridge, 1.2 miles north of San Saba. Flow Records are from stream-gaging station at same location.

Records Available: April 1966 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1971	292,200	314,900	104	207	0.079
MIN	1967	51,550	22,450	7	15	0.032
AVG	5 yrs	168,554	116,870	38	77	0.051

WATER YEAR 1966

OCT						
NOV						
DEC						
JAN						
FEB						
MAR						
APR		8470	7140	--	5	.0619
MAY		6560	912	--	1	.0102
JUNE		2190	224	--	0	.0075
JULY		836	27	--	0	.0024
AUG		4850	703	--	0	.0106
SEPT		12970	8410	--	6	.0476

SUMMARY

WATER YEAR 1967

OCT		3630	441	--	0	.0089
NOV		2850	174	--	0	.0045
DEC		3430	133	--	0	.0028
JAN		3620	122	--	0	.0025
FEB		2860	136	--	0	.0035
MAR		2690	188	--	0	.0051
APR		4150	468	--	0	.0083
MAY		10480	16090	--	11	.1128
JUNE		2100	623	--	0	.0218
JULY		10140	3360	--	2	.0243
AUG		1810	53	--	0	.0022
SEPT		3800	663	--	0	.0128
SUMMARY		51550	22450	7	15	.0320

COLORADO RIVER BASIN

SAN SABA RIVER AT SAN SABA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	3010	273	--	0	.0067
NOV	6320	640	--	0	.0074
DEC	4410	212	--	0	.0035
JAN	55100	77380	--	51	.1032
FEB	14650	950	--	1	.0048
MAR	23570	7180	--	5	.0224
APR	32210	20900	--	14	.0477
MAY	30320	10060	--	7	.0244
JUNE	19960	4740	--	3	.0174
JULY	7900	908	--	1	.0084
AUG	4260	359	--	0	.0062
SEPT	4930	461	--	0	.0069
SUMMARY	206600	124100	41	81	.0441
WATER YEAR 1969					
OCT	4470	235	--	0	.0039
NOV	4710	110	--	0	.0017
DEC	6450	170	--	0	.0019
JAN	5330	188	--	0	.0026
FEB	4550	340	--	0	.0055
MAR	5460	331	--	0	.0045
APR	10990	7280	--	5	.0487
MAY	15440	9000	--	6	.0428
JUNE	9160	3130	--	2	.0251
JULY	2200	189	--	0	.0063
AUG	3930	615	--	0	.0115
SEPT	7950	1440	--	1	.0133
SUMMARY	80620	23030	8	15	.0210
WATER YEAR 1970					
OCT	66430	73880	--	48	.0817
NOV	15240	990	--	1	.0048
DEC	15080	1390	--	1	.0068
JAN	14370	681	--	0	.0035
FEB	14160	1570	--	1	.0081
MAR	32990	13900	--	9	.0310
APR	14790	979	--	1	.0049
MAY	16800	4230	--	3	.0185
JUNE	9300	1070	--	1	.0085
JULY	4510	481	--	0	.0078
AUG	3430	235	--	0	.0050
SEPT	4700	464	--	0	.0073
SUMMARY	211800	99870	33	66	.0346

COLORADO RIVER BASIN

SAN SABA RIVER AT SAN SABA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	5200	503	--	0	.0071
NOV	4210	292	--	0	.0051
DEC	4570	319	--	0	.0051
JAN	4630	320	--	0	.0051
FEB	4580	282	--	0	.0045
MAR	4250	290	--	0	.0050
APR	3520	276	--	0	.0058
MAY	5470	3100	--	2	.0416
JUNE	2550	796	--	1	.0229
JULY	73870	137400	--	90	.1366
AUG	108700	103100	--	68	.0697
SEPT	70610	68250	--	45	.0710
SUMMARY	292200	314900	104	207	.0792

COLORADO RIVER BASIN

8147000 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 are from stream-gaging station at same location.

Records Available: September 11, 1930 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1935	2,564,000	14,423,520	771	9,459	0.413
MIN 1943	475,100	703,520	109	461	0.109
AVG 41 yrs	920,359	3,234,102	173	2,121	0.258

WATER YEAR 1966

OCT	23370	38300	--	25	.1204
NOV	23970	39870	--	26	.1222
DEC	9660	503	--	0	.0038
JAN	8610	319	--	0	.0027
FEB	8940	455	--	0	.0037
MAR	10160	5030	--	3	.0364
APR	42870	193600	--	127	.3318
MAY	94990	335900	--	220	.2598
JUNE	26340	49100	--	32	.1369
JULY	1690	205	--	0	.0089
AUG	37480	95040	--	62	.1863
SEPT	116400	205000	--	134	.1294
SUMMARY	404500	963300	52	632	.1749

WATER YEAR 1967

OCT	15800	1580	--	1	.0073
NOV	4760	236	--	0	.0036
DEC	5420	276	--	0	.0037
JAN	5630	197	--	0	.0026
FEB	4030	249	--	0	.0045
MAR	5940	632	--	0	.0078
APR	13270	20840	--	14	.1154
MAY	47980	170300	--	112	.2607
JUNE	14660	13770	--	9	.0690
JULY	45810	252800	--	166	.4054
AUG	8340	5300	--	3	.0467
SEPT	93070	441700	--	290	.3486
SUMMARY	264700	907900	49	596	.2520

COLORADO RIVER BASIN

COLORADO RIVER NEAR SAN SABA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	12230	2310	--	2	.0139
NOV	14140	2400	--	2	.0125
DEC	8860	389	--	0	.0032
JAN	313900	471700	--	309	.1104
FEB	59670	10730	--	7	.0132
MAR	156700	266500	--	175	.1249
APR	116700	90120	--	59	.0567
MAY	253000	406000	--	266	.1179
JUNE	76170	44750	--	29	.0432
JULY	27260	3520	--	2	.0095
AUG	6970	778	--	1	.0082
SEPT	8240	922	--	1	.0082
SUMMARY	1054000	1300000	70	853	.0906
WATER YEAR 1969					
OCT	6360	307	--	0	.0035
NOV	7350	249	--	0	.0025
DEC	13460	434	--	0	.0024
JAN	8880	281	--	0	.0023
FEB	7620	249	--	0	.0024
MAR	9760	444	--	0	.0033
APR	29480	11190	--	7	.0279
MAY	148900	272200	--	179	.1343
JUNE	41610	26600	--	17	.0470
JULY	4680	482	--	0	.0076
AUG	9110	1780	--	1	.0144
SEPT	45640	44280	--	29	.0713
SUMMARY	332800	358500	19	235	.0791
WATER YEAR 1970					
OCT	140100	245300	--	161	.1286
NOV	39670	2900	--	2	.0054
DEC	55450	16870	--	11	.0223
JAN	65410	12890	--	8	.0145
FEB	43170	4850	--	3	.0083
MAR	156600	105400	--	69	.0494
APR	56010	5030	--	3	.0066
MAY	72050	47740	--	31	.0487
JUNE	79780	62760	--	41	.0578
JULY	7090	885	--	1	.0092
AUG	6020	545	--	0	.0067
SEPT	14710	12200	--	8	.0609
SUMMARY	736100	517400	28	339	.0516

COLORADO RIVER BASIN

COLORADO RIVER NEAR SAN SABA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD TONS	SEDIMENT LOAD TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1971					
OCT	10910	701	--	0	.0047
NOV	7100	395	--	0	.0041
DEC	7270	538	--	0	.0054
JAN	7700	515	--	0	.0049
FEB	6530	529	--	0	.0060
MAR	6000	470	--	0	.0058
APR	5940	463	--	0	.0057
MAY	16490	39950	--	26	.1780
JUNE	19490	5800	--	4	.0219
JULY	121800	458800	--	301	.2767
AUG	240700	600300	--	394	.1832
SEPT	173100	255600	--	168	.1085
SUMMARY	623100	1364000	73	895	.1608

COLORADO RIVER BASIN

8148000 LAKE BUCHANAN NEAR BURNET

Net Drainage Area: 19,350 square miles.

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

Records Available: October 1947 to date.

I. RATIOS OF RESERVOIR CAPACITY TO INFLOW

	RECORD PERIOD	RESERVOIR CAPACITY <u>a/</u> ACRE-FEET	RESERVOIR INFLOW <u>b/</u> ACRE-FEET	RATIO C/I
MAX	1967	879,000	189,700	4.63
MIN	1957	908,800	2,527,000	0.36
AVG	1948-71	902,335	661,182	1.27 _{c/}
	1966	880,000	468,000	1.88
	1967	879,000	189,700	4.63
	1968	877,000	1,188,400	0.74
	1969	876,000	315,700	2.77
	1970	874,000	766,700	1.14
	1971	867,000	541,500	1.60

II. SEDIMENT OUTFLOW FROM RESERVOIR

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
MAX	1957	2,485,000	124,833	82	0.004
MIN	1963	280,281	2,407	2	0.001
AVG	24 yrs	625,563	23,153	15	0.003
	1966	379,400	5,710	4	0.001
	1967	350,300	3,930	3	0.001
	1968	1,090,000	11,470	8	0.001
	1969	370,000	21,100	14	0.004
	1970	781,400	8,400	6	0.001
	1971	371,200	4,420	3	0.001

COLORADO RIVER BASIN

LAKE BUCHANAN NEAR BURNET--Continued

III. SEDIMENT DISCHARGE WITH FLOOD RELEASES IN 1966-71 d/ .

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
May 1-4 1966	51,747	404	0	0.001
Mar. 10- 27, 1968	163,494	741	1	0.000
Jan. 23- 31, 1968	174,248	2,371	2	0.001
May 10- 19, 1968	182,963	1,857	11	0.001
May 8-10 1969	51,084	5,445	4	0.000
Mar. 7-9 1970	1,674	36	0	0.000
Sept. 28-30 1971	22,128	80	0	0.001

a/ Estimates of reservoir capacity from U.S. Bureau of Reclamation projections as presented in the report "The Lower Colorado River Authority" dated November 1960, Volume 1.

b/ Inflow records were computed by combining released flows with daily reservoir content changes.

c/ Average for the 24-year period.

d/ Combined release through turbines, floodgates, and spillway as computed by the Lower Colorado River Authority. Flood discharges are included in the discharges shown for their respective water years.

COLORADO RIVER BASIN

8151500 LLANO RIVER AT LLANO

Net Drainage Area: 4,233 square miles.

Location: State Highway 16 bridge in downtown Llano. Flow records are from stream-gaging station Llano River at Llano, 0.4 mile downstream.

Records Available: August 1942 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1952	285,200	5,551,820	1,312	3,641	1.430
MIN	1962	104,700	1,503	0	0	0.001
AVG	27 yrs	223,967	443,749	105	291	0.146

WATER YEAR 1966

OCT	6080	309	--	0	.0037
NOV	5750	206	--	0	.0026
DEC	7960	227	--	0	.0021
JAN	6970	124	--	0	.0013
FEB	6210	127	--	0	.0015
MAR	5880	113	--	0	.0014
APR	35350	31380	--	21	.0652
MAY	31980	30800	--	20	.0707
JUNE	5440	175	--	0	.0024
JULY	3260	88	--	0	.0020
AUG	13150	1200	--	1	.0067
SEPT	46170	23700	--	16	.0377
SUMMARY	174200	88450	21	58	.0373

WATER YEAR 1967

OCT	11060	489	--	0	.0032
NOV	7200	210	--	0	.0021
DEC	7120	210	--	0	.0022
JAN	6840	192	--	0	.0021
FEB	5740	260	--	0	.0033
MAR	5800	264	--	0	.0033
APR	4870	608	--	0	.0092
MAY	21350	1190	--	1	.0041
JUNE	1990	37	--	0	.0014
JULY	18200	105100	--	69	.4242
AUG	2070	124	--	0	.0044
SEPT	4780	165	--	0	.0025
SUMMARY	97040	108800	26	71	.0824

COLORADO RIVER BASIN

LLANO RIVER AT LLANO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	4170	1960	--	1	.0345
NOV	11020	405	--	0	.0027
DEC	6790	29	--	0	.0003
JAN	152700	243400	--	160	.1171
FEB	28760	339	--	0	.0009
MAR	63020	19830	--	13	.0231
APR	72630	8390	--	6	.0085
MAY	75190	15830	--	10	.0155
JUNE	24480	754	--	0	.0023
JULY	11250	489	--	0	.0032
AUG	6020	281	--	0	.0034
SEPT	7890	91	--	0	.0008
SUMMARY	463900	291800	69	191	.0462
WATER YEAR 1969					
OCT	5520	74	--	0	.0010
NOV	6610	72	--	0	.0008
DEC	10030	182	--	0	.0013
JAN	7430	122	--	0	.0012
FEB	7500	84	--	0	.0008
MAR	7170	45	--	0	.0005
APR	20080	1320	--	1	.0048
MAY	19930	4430	--	3	.0163
JUNE	10350	507	--	0	.0036
JULY	5740	190	--	0	.0024
AUG	9800	576	--	0	.0043
SEPT	18170	1050	--	1	.0042
SUMMARY	128300	8650	2	6	.0050
WATER YEAR 1970					
OCT	196500	483100	--	317	.1806
NOV	45800	1360	--	1	.0022
DEC	31040	460	--	0	.0011
JAN	25120	270	--	0	.0008
FEB	29670	936	--	1	.0023
MAR	94650	19720	--	13	.0153
APR	32720	367	--	0	.0008
MAY	63660	32330	--	21	.0373
JUNE	24010	503	--	0	.0015
JULY	9490	208	--	0	.0016
AUG	5820	90	--	0	.0011
SEPT	7980	149	--	0	.0014
SUMMARY	566400	539500	127	354	.0700

COLORADO RIVER BASIN

LLANO RIVER AT LLANO--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	8670	96	--	0	.0008
NOV	8830	123	--	0	.0010
DEC	8890	82	--	0	.0007
JAN	7570	87	--	0	.0008
FEB	7470	138	--	0	.0014
MAR	8250	193	--	0	.0017
APR	6880	113	--	0	.0012
MAY	6530	116	--	0	.0013
JUNE	3310	52	--	0	.0012
JULY	20290	24450	--	16	.0885
AUG	124300	104200	--	68	.0616
SEPT	26960	1440	--	1	.0039
SUMMARY	237900	131100	31	86	.0405

COLORADO RIVER BASIN

8153500 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 are from stream-gaging station at same location.

Records Available: August 1942 through September 1967.
Discontinued September 30, 1967.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1952	414,400	12,645,548	13,353	8,294	2.242
MIN 1956	2,990	199	0	0	0.005
AVG 24 yrs	100,124	660,981	698	434	0.485

WATER YEAR 1966

OCT	5380	174	--	0	.0024
NOV	3240	39	--	0	.0009
DEC	14610	4060	--	3	.0204
JAN	5220	47	--	0	.0007
FEB	5120	72	--	0	.0010
MAR	4600	53	--	0	.0008
APR	7660	1040	--	1	.0099
MAY	6160	89	--	0	.0011
JUNE	2090	61	--	0	.0021
JULY	1160	13	--	0	.0008
AUG	1460	19	--	0	.0010
SEPT	3320	15	--	0	.0003
SUMMARY	60020	5680	6	4	.0070

WATER YEAR 1967

OCT	1180	3	--	0	.0002
NOV	972	1	--	0	.0001
DEC	902	0	--	0	.0000
JAN	958	6	--	0	.0005
FEB	1040	11	--	0	.0008
MAR	721	1	--	0	.0001
APR	945	788	--	1	.0613
MAY	2070	555	--	0	.0197
JUNE	130	0	--	0	.0000
JULY	3	0	--	0	.0000
AUG	1	0	--	0	.0000
SEPT	5400	1400	--	1	.0190
SUMMARY	14310	2770	3	2	.0142

COLORADO RIVER BASIN

8158000 COLORADO RIVER AT AUSTIN

Net Drainage Area: 26,500 square miles.

Location: U.S. Highway 183 bridge. Flow records are from stream-gaging station Colorado River at Austin, 1,000 feet upstream from bridge.

Records Available: August 2, 1937 to date, except for May through September in 1962, and November 1963 through June 1964. Record reflects changing development above Austin. The record summary below is made for the period following closure of Town Lake Dam in Austin.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1968	2,511,000	1,016,000	38	666	0.030
MIN	1971	690,600	11,160	0	7	0.001
AVG	10 yrs	1,423,066	172,467	7	113	0.009

WATER YEAR 1966

OCT	45000	3220	--	2	.0053
NOV	97340	5630	--	4	.0042
DEC	109400	7690	--	5	.0052
JAN	49060	3470	--	2	.0052
FEB	21110	3530	--	2	.0123
MAR	22250	4050	--	3	.0134
APR	133200	9410	--	6	.0052
MAY	317800	19200	--	13	.0044
JUNE	137000	8670	--	6	.0046
JULY	115900	5190	--	3	.0033
AUG	79860	7740	--	5	.0071
SEPT	60810	5500	--	4	.0066
SUMMARY	1189000	83300	3	55	.0051

WATER YEAR 1967

OCT	30890	2950	--	2	.0070
NOV	34320	2280	--	1	.0049
DEC	4020	217	--	0	.0040
JAN	2840	154	--	0	.0040
FEB	10940	1270	--	1	.0085
MAR	41940	1820	--	1	.0032
APR	98820	3640	--	2	.0027
MAY	122300	9530	--	6	.0057
JUNE	124300	6770	--	4	.0040
JULY	84640	5060	--	3	.0044
AUG	121600	121400	--	80	.0733
SEPT	66830	19500	--	13	.0214
SUMMARY	743400	174600	7	115	.0173

COLORADO RIVER BASIN

COLORADO RIVER AT AUSTIN--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI		
WATER YEAR 1968					
OCT	28110	11480	--	8	.0300
NOV	44820	18300	--	12	.0300
DEC	23740	9700	--	6	.0300
JAN	222900	110100	--	72	.0363
FEB	348900	142500	--	93	.0300
MAR	349800	388100	--	255	.0815
APR	348700	54760	--	36	.0115
MAY	445800	186400	--	122	.0307
JUNE	335900	30680	--	20	.0067
JULY	168600	41130	--	27	.0179
AUG	120900	8880	--	6	.0054
SEPT	73070	14250	--	9	.0143
SUMMARY	2511000	1016000	38	666	.0297
WATER YEAR 1969					
OCT	18590	2250	--	1	.0089
NOV	6280	182	--	0	.0021
DEC	20900	265	--	0	.0009
JAN	4730	176	--	0	.0027
FEB	8840	1530	--	1	.0127
MAR	16180	634	--	0	.0029
APR	100800	1050	--	1	.0008
MAY	259500	7370	--	5	.0021
JUNE	125600	4590	--	3	.0027
JULY	107900	3700	--	2	.0025
AUG	104700	6180	--	4	.0043
SEPT	72240	2460	--	2	.0025
SUMMARY	846300	30390	1	20	.0026
WATER YEAR 1970					
OCT	130100	3950	--	3	.0022
NOV	174300	3850	--	3	.0016
DEC	106400	5710	--	4	.0039
JAN	131900	2740	--	2	.0015
FEB	109000	4560	--	3	.0031
MAR	300200	10120	--	7	.0025
APR	293100	4960	--	3	.0012
MAY	197600	3190	--	2	.0012
JUNE	253500	7390	--	5	.0021
JULY	169700	4590	--	3	.0020
AUG	106700	2780	--	2	.0019
SEPT	79740	2440	--	2	.0022
SUMMARY	2052000	56280	2	37	.0020

COLORADO RIVER BASIN

COLORADO RIVER AT AUSTIN--Continued

WATER YEAR 1971	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
OCT	18400	441	--	0	.0018
NOV	8650	268	--	0	.0023
DEC	6920	182	--	0	.0019
JAN	19850	158	--	0	.0006
FEB	4530	148	--	0	.0024
MAR	58500	932	--	1	.0012
APR	92650	1370	--	1	.0011
MAY	111200	1950	--	1	.0013
JUNE	129000	2040	--	1	.0012
JULY	100900	1250	--	1	.0009
AUG	87760	1630	--	1	.0014
SEPT	52280	788	--	1	.0011
SUMMARY	690600	11160	0	7	.0012

LAVACA RIVER BASIN

8164000 LAVACA RIVER NEAR EDNA

Net Drainage Area: 887 square miles.Location: U.S. Highway 59 bridge, 2.8 miles southwest of Edna.
Flow records are from stream-gaging station at same location.Records Available: September 1945 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1958	372,100	432,669	488	284	0.085
MIN 1956	4,440	4,672	5	3	0.077
AVG 26 yrs	184,938	151,560	171	99	0.060

WATER YEAR 1966

OCT	5380	13630	--	9	.1860
NOV	48700	41940	--	28	.0633
DEC	17150	6180	--	4	.0265
JAN	7580	1750	--	1	.0169
FEB	16100	11830	--	8	.0540
MAR	9240	4960	--	3	.0394
APR	34890	23430	--	15	.0493
MAY	45160	20130	--	13	.0327
JUNE	8480	4720	--	3	.0409
JULY	5330	1890	--	1	.0261
AUG	2770	1380	--	1	.0365
SEPT	2130	453	--	0	.0156
SUMMARY	202900	132300	160	87	.0479

WATER YEAR 1967

OCT	1170	174	--	0	.0109
NOV	1110	87	--	0	.0058
DEC	1350	49	--	0	.0027
JAN	1510	93	--	0	.0045
FEB	1200	57	--	0	.0035
MAR	1660	110	--	0	.0049
APR	4450	4230	--	3	.0698
MAY	2340	2530	--	2	.0794
JUNE	701	155	--	0	.0162
JULY	270	40	--	0	.0109
AUG	1180	555	--	0	.0346
SEPT	112200	44460	--	29	.0291
SUMMARY	129100	52540	64	34	.0299

LAVACA RIVER BASIN

LAVACA RIVER NEAR EDNA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD TONS	SEDIMENT LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	51710	22360	--	15	.0318
NOV	5010	619	--	0	.0091
DEC	2850	189	--	0	.0049
JAN	61370	20280	--	13	.0243
FEB	8840	1130	--	1	.0094
MAR	10130	5370	--	4	.0389
APR	13230	11270	--	7	.0626
MAY	83660	22810	--	15	.0200
JUNE	114800	41340	--	27	.0265
JULY	12760	3310	--	2	.0191
AUG	3800	1100	--	1	.0213
SEPT	6590	2060	--	1	.0230
SUMMARY	374800	131800	160	86	.0258
WATER YEAR 1969					
OCT	2770	394	--	0	.0104
NOV	2890	290	--	0	.0074
DEC	12430	5660	--	4	.0335
JAN	6940	5900	--	4	.0625
FEB	62770	41630	--	27	.0487
MAR	44230	27250	--	18	.0453
APR	83470	33480	--	22	.0295
MAY	87580	53390	--	35	.0448
JUNE	6720	2060	--	1	.0225
JULY	2990	609	--	0	.0150
AUG	2290	482	--	0	.0155
SEPT	3140	584	--	0	.0137
SUMMARY	318200	171700	208	113	.0396
WATER YEAR 1970					
OCT	7580	10280	--	7	.0996
NOV	3840	654	--	0	.0125
DEC	18270	8060	--	5	.0324
JAN	16600	7790	--	5	.0345
FEB	4060	994	--	1	.0180
MAR	22460	10930	--	7	.0357
APR	4810	1750	--	1	.0267
MAY	76940	35780	--	23	.0342
JUNE	26190	6430	--	4	.0180
JULY	3740	912	--	1	.0179
AUG	2740	992	--	1	.0266
SEPT	21850	16770	--	11	.0564
SUMMARY	209100	101300	123	66	.0356

LAVACA RIVER BASIN

LAVACA RIVER NEAR EDNA--Continued

WATER YEAR 1971	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	PCT BY WEIGHT
OCT	16240	12610	--	.0570
NOV	2460	142	--	.0042
DEC	2130	227	--	.0078
JAN	2010	169	--	.0062
FEB	2060	345	--	.0123
MAR	2280	377	--	.0121
APR	1790	271	--	.0111
MAY	1480	329	--	.0163
JUNE	5380	6070	--	.0829
JULY	1160	174	--	.0110
AUG	39660	21000	--	.0389
SEPT	83220	43310	--	.0382
SUMMARY	159900	85020	103	.0391

LAVACA RIVER BASIN

8164300 NAVIDAD RIVER NEAR HALLETTSVILLE

Net Drainage Area: 333 square miles.Location: U.S. Highway 90A bridge, 8 miles east-northeast of Hallettsville. Flow records are from stream-gaging station at same location.Records Available: March 1962 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1965	125,874	113,136	340	74	0.066
MIN	1964	12,524	8,697	26	6	0.051
AVG	9 yrs	88,250	45,413	136	30	0.038

WATER YEAR 1966

OCT	4300	4100	--	3	.0701
NOV	55440	23640	--	16	.0313
DEC	13390	7510	--	5	.0412
JAN	3400	299	--	0	.0065
FEB	12120	4700	--	3	.0285
MAR	6640	2230	--	1	.0247
APR	10980	7500	--	5	.0502
MAY	13040	5160	--	3	.0291
JUNE	2640	898	--	1	.0250
JULY	1110	633	--	0	.0419
AUG	849	534	--	0	.0462
SEPT	527	98	--	0	.0137
SUMMARY	124400	57300	173	38	.0338

WATER YEAR 1967

OCT	452	41	--	0	.0067
NOV	519	46	--	0	.0065
DEC	764	29	--	0	.0028
JAN	839	24	--	0	.0021
FEB	748	28	--	0	.0027
MAR	810	27	--	0	.0024
APR	2210	1150	--	1	.0382
MAY	2980	2090	--	1	.0515
JUNE	286	43	--	0	.0110
JULY	54	3	--	0	.0041
AUG	54	0	--	0	.0000
SEPT	55160	30460	--	20	.0406
SUMMARY	64880	33940	102	22	.0384

LAVACA RIVER BASIN

NAVIDAD RIVER NEAR HALLETTSVILLE--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	13980	5570	--	4	.0293
NOV	1460	91	--	0	.0046
DEC	1230	39	--	0	.0023
JAN	42510	8860	--	6	.0153
FEB	3610	316	--	0	.0064
MAR	3450	1100	--	1	.0234
APR	12150	5250	--	3	.0317
MAY	18500	4030	--	3	.0160
JUNE	64430	23290	--	15	.0266
JULY	5620	3430	--	2	.0448
AUG	952	149	--	0	.0115
SEPT	3220	1550	--	1	.0354
SUMMARY	171100	53680	162	35	.0230
WATER YEAR 1969					
OCT	980	77	--	0	.0058
NOV	1830	172	--	0	.0069
DEC	9330	1790	--	1	.0141
JAN	2720	397	--	0	.0107
FEB	35270	21940	--	14	.0457
MAR	26250	8710	--	6	.0244
APR	36130	23450	--	15	.0477
MAY	33840	11730	--	8	.0255
JUNE	2460	473	--	0	.0141
JULY	766	77	--	0	.0074
AUG	549	119	--	0	.0159
SEPT	900	353	--	0	.0288
SUMMARY	151000	69290	209	45	.0337
WATER YEAR 1970					
OCT	1220	173	--	0	.0104
NOV	1200	84	--	0	.0051
DEC	3040	1900	--	1	.0459
JAN	3430	199	--	0	.0043
FEB	3340	219	--	0	.0048
MAR	15470	9800	--	6	.0465
APR	2770	615	--	0	.0163
MAY	27340	15760	--	10	.0423
JUNE	3050	627	--	0	.0151
JULY	872	59	--	0	.0050
AUG	437	68	--	0	.0114
SEPT	4950	2770	--	2	.0411
SUMMARY	67120	32270	97	21	.0353

LAVACA RIVER BASIN

NAVIDAD RIVER NEAR HALLETTSVILLE--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	9770	3670	--	2	.0276
NOV	1340	79	--	0	.0043
DEC	1360	81	--	0	.0044
JAN	1250	29	--	0	.0017
FEB	958	71	--	0	.0054
MAR	1030	72	--	0	.0051
APR	736	44	--	0	.0044
MAY	868	280	--	0	.0237
JUNE	589	188	--	0	.0234
JULY	99	4	--	0	.0030
AUG	20390	9220	--	6	.0332
SEPT	20150	4400	--	3	.0160
SUMMARY	58530	18140	55	12	.0228

GUADALUPE RIVER BASIN

8167500 GUADALUPE RIVER NEAR SPRING BRANCH

Net Drainage Area: 1,315 square miles.

Location: Ranch Road 311 bridge, 2.0 miles southeast of Spring Branch. Flow records are from stream-gaging station at same location.

Records Available: January 1942 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1957	212,500	873,384	664	573	0.302
MIN 1956	9,650	871	1	1	0.007
AVG 29 yrs	179,541	179,133	136	117	0.073

WATER YEAR 1966

MONTH	STREAMFLOW ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
OCT	11260	1600	--	1	.0104
NOV	6860	301	--	0	.0032
DEC	15880	881	--	1	.0041
JAN	10530	220	--	0	.0015
FEB	9860	237	--	0	.0018
MAR	10350	538	--	0	.0038
APR	21420	22730	--	15	.0779
MAY	20860	2890	--	2	.0102
JUNE	9080	1100	--	1	.0089
JULY	5230	425	--	0	.0060
AUG	32710	19730	--	13	.0443
SEPT	18260	2870	--	2	.0115
SUMMARY	172300	53520	41	35	.0228

WATER YEAR 1967

MONTH	STREAMFLOW ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
OCT	9590	671	--	0	.0051
NOV	6810	233	--	0	.0025
DEC	6350	270	--	0	.0031
JAN	5580	253	--	0	.0033
FEB	5210	138	--	0	.0019
MAR	4960	252	--	0	.0037
APR	3970	258	--	0	.0048
MAY	2950	176	--	0	.0044
JUNE	1010	51	--	0	.0037
JULY	2520	924	--	1	.0269
AUG	1350	75	--	0	.0041
SEPT	23450	21730	--	14	.0681
SUMMARY	73750	25030	19	16	.0249

GUADALUPE RIVER BASIN

GUADALUPE RIVER NEAR SPRING BRANCH--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	LOAD OF STREAM TONS PER SQ MI	ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	17260	2840	--	2	.0121
NOV	19480	812	--	1	.0031
DEC	12870	268	--	0	.0015
JAN	103500	101700	--	67	.0722
FEB	41090	1500	--	1	.0027
MAR	39610	3460	--	2	.0064
APR	39420	4110	--	3	.0077
MAY	43930	27310	--	18	.0457
JUNE	22860	5100	--	3	.0164
JULY	14650	1270	--	1	.0064
AUG	7220	452	--	0	.0046
SEPT	7790	545	--	0	.0051
SUMMARY	369700	149400	114	98	.0297
WATER YEAR 1969					
OCT	6500	377	--	0	.0043
NOV	6550	150	--	0	.0017
DEC	8370	242	--	0	.0021
JAN	6850	295	--	0	.0032
FEB	7590	1710	--	1	.0166
MAR	8280	324	--	0	.0029
APR	15150	4400	--	3	.0213
MAY	18180	3360	--	2	.0136
JUNE	11360	1470	--	1	.0095
JULY	3920	392	--	0	.0073
AUG	6880	10870	--	7	.1161
SEPT	10040	5520	--	4	.0404
SUMMARY	109700	29110	22	19	.0195
WATER YEAR 1970					
OCT	77760	54990	--	36	.0520
NOV	20630	829	--	1	.0030
DEC	33800	2320	--	2	.0050
JAN	22840	436	--	0	.0014
FEB	20700	626	--	0	.0022
MAR	43580	8630	--	6	.0145
APR	24660	1400	--	1	.0042
MAY	39610	20630	--	14	.0383
JUNE	24250	3990	--	3	.0121
JULY	10420	726	--	0	.0051
AUG	5680	290	--	0	.0038
SEPT	6860	434	--	0	.0046
SUMMARY	330800	95300	72	63	.0212

GUADALUPE RIVER BASIN

GUADALUPE RIVER NEAR SPRING BRANCH--Continued

	STREAMFLOW		SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT PCT BY WEIGHT	
	ACRE-Feet		TONS	TONS PER SQ MI		
WATER YEAR 1971						
OCT	7720		561	--	0	.0053
NOV	6320		241	--	0	.0028
DEC	6560		463	--	0	.0052
JAN	6110		265	--	0	.0032
FEB	5060		319	--	0	.0046
MAR	5440		252	--	0	.0034
APR	4570		330	--	0	.0053
MAY	3850		381	--	0	.0073
JUNE	1510		120	--	0	.0058
JULY	1270		110	--	0	.0064
AUG	121400		480900	--	315	.2910
SEPT	27830		57670	--	38	.1522
SUMMARY	197700		541600	412	355	.2014

GUADALUPE RIVER BASIN

8176500 GUADALUPE RIVER AT VICTORIA

Net Drainage Area: 5,198 square miles.

Location: U.S. Highway 59 bridge in Victoria. Flow records are from stream-gaging station at same location.

Records Available: September 1945 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1957	1,429,000	1,499,513	291	984	0.077
MIN 1956	95,500	8,685	2	4	0.007
AVG 26 yrs	1,037,945	480,751	92	315	0.034

WATER YEAR 1966	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
OCT	78420	28270	--	19	.0265
NOV	117100	53900	--	35	.0338
DEC	161100	83210	--	55	.0379
JAN	75930	4380	--	3	.0042
FEB	92710	13770	--	9	.0109
MAR	97690	24190	--	16	.0182
APR	122000	60720	--	40	.0366
MAY	160300	44320	--	29	.0203
JUNE	71420	11050	--	7	.0114
JULY	54900	7810	--	5	.0105
AUG	39370	5460	--	4	.0102
SEPT	51730	5430	--	4	.0077
SUMMARY	1123000	342500	66	225	.0224

WATER YEAR 1967	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
OCT	53990	8810	--	6	.0120
NOV	41860	3710	--	2	.0065
DEC	36660	2720	--	2	.0055
JAN	36660	2950	--	2	.0059
FEB	30040	3090	--	2	.0076
MAR	31510	3630	--	2	.0085
APR	28210	3660	--	2	.0095
MAY	24130	2650	--	2	.0081
JUNE	16680	2250	--	1	.0099
JULY	12840	1090	--	1	.0062
AUG	18590	2970	--	2	.0117
SEPT	555500	233400	--	153	.0309
SUMMARY	886600	270900	52	178	.0224

GUADALUPE RIVER BASIN

GUADALUPE RIVER AT VICTORIA--Continued

	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE=FEET	TONS	TONS PER SQ MI	ACRE=FEET	PCT BY WEIGHT
WATER YEAR 1968					
OCT	139600	67090	--	44	.0353
NOV	131700	64100	--	42	.0358
DEC	68470	2280	--	1	.0024
JAN	438400	350400	--	230	.0587
FEB	135100	28250	--	19	.0154
MAR	114900	10010	--	7	.0064
APR	173000	66370	--	44	.0282
MAY	306900	141600	--	93	.0339
JUNE	367600	148500	--	97	.0297
JULY	102600	14520	--	10	.0104
AUG	59130	3660	--	2	.0045
SEPT	98120	24970	--	16	.0187
SUMMARY	2135000	921800	177	605	.0317
WATER YEAR 1969					
OCT	51520	2240	--	1	.0032
NOV	56130	7080	--	5	.0093
DEC	125900	53370	--	35	.0311
JAN	57400	2390	--	2	.0031
FEB	184700	76000	--	50	.0302
MAR	183400	77780	--	51	.0312
APR	218500	104200	--	68	.0350
MAY	200100	87520	--	57	.0321
JUNE	91360	12200	--	8	.0098
JULY	52990	4900	--	3	.0068
AUG	43560	4040	--	3	.0068
SEPT	50070	4030	--	3	.0059
SUMMARY	1316000	435800	84	286	.0243
WATER YEAR 1970					
OCT	83180	11000	--	7	.0097
NOV	72870	6040	--	4	.0061
DEC	94220	24750	--	16	.0193
JAN	110500	15540	--	10	.0103
FEB	103500	22000	--	14	.0156
MAR	173000	68040	--	45	.0289
APR	114300	20300	--	13	.0130
MAY	211100	119600	--	78	.0416
JUNE	164100	50350	--	33	.0225
JULY	74060	7300	--	5	.0072
AUG	52430	7700	--	5	.0108
SEPT	47460	4450	--	3	.0069
SUMMARY	1301000	357100	69	234	.0202

GUADALUPE RIVER BASIN

GUADALUPE RIVER AT VICTORIA--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI		
WATER YEAR 1971					
OCT	64670	28170	--	18	.0320
NOV	43480	3040	--	2	.0051
DEC	42730	2630	--	2	.0045
JAN	41250	2960	--	2	.0053
FEB	34020	2260	--	1	.0049
MAR	35860	3010	--	2	.0062
APR	25570	1840	--	1	.0053
MAY	22570	1630	--	1	.0053
JUNE	22480	12740	--	8	.0416
JULY	19840	5230	--	3	.0196
AUG	96540	43610	--	29	.0332
SEPT	173400	110700	--	73	.0469
SUMMARY	622400	217800	42	143	.0257

SAN ANTONIO RIVER BASIN

8186000 CIBOLO CREEK NEAR FALLS CITY

Net Drainage Area: 827 square miles.

Location: State Highway 123 bridge, 5.5 miles northeast of Falls City. Flow records from stream-gaging station at same location.

Records Available: June 1963 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1968	189,100	411,600	498	270	0.160
MIN 1964	35,782	8,830	11	6	0.018
AVG 8 yrs	80,790	118,312	143	78	0.108

STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT TONS	SEDIMENT TONS PER SQ MI	LOAD OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
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WATER YEAR 1966

OCT	14510	51230	--	34	.02594
NOV	2640	508	--	0	.0141
DEC	16070	8000	--	5	.0366
JAN	1770	54	--	0	.0022
FEB	2860	606	--	0	.0156
MAR	3770	425	--	0	.0083
APR	5190	924	--	1	.0131
MAY	6530	2480	--	2	.0279
JUNE	1420	174	--	0	.0090
JULY	975	147	--	0	.0111
AUG	964	143	--	0	.0109
SEPT	2030	2280	--	1	.0825
SUMMARY	58730	66970	81	44	.0838

WATER YEAR 1967

OCT	936	66	--	0	.0052
NOV	772	46	--	0	.0044
DEC	726	31	--	0	.0031
JAN	1070	30	--	0	.0021
FEB	718	24	--	0	.0025
MAR	683	43	--	0	.0046
APR	519	101	--	0	.0143
MAY	318	16	--	0	.0037
JUNE	103	0	--	0	.0000
JULY	450	17	--	0	.0028
AUG	2820	5090	--	3	.1326
SEPT	86250	120300	--	79	.1025
SUMMARY	95370	125800	152	83	.0969

SAN ANTONIO RIVER BASIN

CIBOLO CREEK NEAR FALLS CITY--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1968					
OCT	3960	856	--	1	.0159
NOV	19230	46040	--	30	.1759
DEC	2640	130	--	0	.0036
JAN	100000	279800	--	184	.2055
FEB	7440	3550	--	2	.0351
MAR	3930	357	--	0	.0067
APR	11220	27710	--	18	.1814
MAY	17590	35140	--	23	.1468
JUNE	9900	8150	--	5	.0605
JULY	2640	370	--	0	.0103
AUG	1350	135	--	0	.0073
SEPT	9120	9330	--	6	.0752
SUMMARY	189100	411600	498	270	.1600
WATER YEAR 1969					
OCT	1460	132	--	0	.0066
NOV	3150	1890	--	1	.0441
DEC	8560	7160	--	5	.0614
JAN	2580	884	--	1	.0252
FEB	20620	25500	--	17	.0908
MAR	5020	3540	--	2	.0518
APR	5500	6790	--	4	.0907
MAY	12560	11600	--	8	.0678
JUNE	5260	6830	--	4	.0954
JULY	1160	91	--	0	.0058
AUG	1030	83	--	0	.0059
SEPT	1670	488	--	0	.0215
SUMMARY	68570	64990	79	43	.0696
WATER YEAR 1970					
OCT	2910	1850	--	1	.0467
NOV	1570	93	--	0	.0044
DEC	2880	338	--	0	.0086
JAN	2320	376	--	0	.0119
FEB	2300	332	--	0	.0106
MAR	4970	3770	--	2	.0557
APR	1630	118	--	0	.0053
MAY	28710	73010	--	48	.1868
JUNE	4560	2800	--	2	.0451
JULY	1410	133	--	0	.0069
AUG	1030	98	--	0	.0070
SEPT	828	68	--	0	.0060
SUMMARY	55110	82990	100	54	.1106

SAN ANTONIO RIVER BASIN

CIBOLO CREEK NEAR FALLS CITY--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FeET	
WATER YEAR 1971					
OCT	1110	94	--	0	.0062
NOV	869	30	--	0	.0025
DEC	1030	65	--	0	.0046
JAN	1020	65	--	0	.0047
FEB	825	54	--	0	.0048
MAR	687	34	--	0	.0036
APR	311	15	--	0	.0035
MAY	282	10	--	0	.0026
JUNE	287	28	--	0	.0072
JULY	120	3	--	0	.0018
AUG	24580	46980	--	31	.1404
SEPT	6060	8870	--	6	.1075
SUMMARY	37170	56250	68	37	.1111

SAN ANTONIO RIVER BASIN

8188500 SAN ANTONIO RIVER AT GOLIAD

Net Drainage Area: 3,921 square miles.Location: U.S. Highway 183 bridge in Goliad. Flow records are from stream-gaging station at same location.Records Available: January 1942 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1957	705,400	1,725,533	440	1,132	0.180
MIN	1954	103,800	76,530	20	50	0.054
AVG	29 yrs	396,054	483,890	123	317	0.090

WATER YEAR 1966

OCT	36640	53710	--	35	.1077
NOV	14270	3150	--	2	.0162
DEC	43650	34630	--	23	.0583
JAN	17930	1350	--	1	.0055
FEB	19990	4040	--	3	.0149
MAR	19800	7700	--	5	.0286
APR	28990	34890	--	23	.0884
MAY	36630	28450	--	19	.0570
JUNE	15940	9180	--	6	.0423
JULY	11480	4220	--	3	.0270
AUG	14810	9070	--	6	.0450
SEPT	22440	24780	--	16	.0811
SUMMARY	282600	215200	55	141	.0559

WATER YEAR 1967

OCT	12730	2250	--	1	.0130
NOV	9640	808	--	1	.0062
DEC	11270	766	--	1	.0050
JAN	11940	664	--	0	.0041
FEB	9720	530	--	0	.0040
MAR	10780	1760	--	1	.0120
APR	11090	4440	--	3	.0294
MAY	10380	14640	--	10	.1036
JUNE	4250	957	--	1	.0165
JULY	10770	8930	--	6	.0609
AUG	24240	64910	--	43	.1967
SEPT	716800	419400	--	275	.0430
SUMMARY	843600	520100	133	341	.0453

SAN ANTONIO RIVER BASIN

SAN ANTONIO RIVER AT GOLIAD--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD TONS	SEDIMENT LOAD OF STREAM TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1968					
OCT	64700	92000	--	60	.1045
NOV	57650	51230	--	34	.0653
DEC	23660	2200	--	1	.0068
JAN	264900	238500	--	156	.0661
FEB	58330	35690	--	23	.0449
MAR	39780	8250	--	5	.0152
APR	40360	30810	--	20	.0561
MAY	126800	148200	--	97	.0859
JUNE	50170	55270	--	36	.0809
JULY	33110	14870	--	10	.0330
AUG	17980	1670	--	1	.0068
SEPT	50790	34610	--	23	.0501
SUMMARY	828300	713300	182	468	.0633
WATER YEAR 1969					
OCT	19380	3240	--	2	.0123
NOV	18870	2710	--	2	.0106
DEC	35930	20730	--	14	.0424
JAN	22130	3180	--	2	.0106
FEB	54980	67300	--	44	.0899
MAR	35480	23830	--	16	.0493
APR	42190	43330	--	28	.0754
MAY	81980	92220	--	60	.0826
JUNE	34140	30300	--	20	.0652
JULY	10460	1660	--	1	.0117
AUG	14260	11770	--	8	.0606
SEPT	19900	15000	--	10	.0554
SUMMARY	389700	315300	80	207	.0594
WATER YEAR 1970					
OCT	23570	17920	--	12	.0559
NOV	14850	2060	--	1	.0102
DEC	21840	7840	--	5	.0264
JAN	28190	12940	--	8	.0337
FEB	26170	9410	--	6	.0264
MAR	42770	32310	--	21	.0555
APR	20830	8050	--	5	.0284
MAY	69720	95990	--	63	.1011
JUNE	77130	74340	--	49	.0708
JULY	14310	3650	--	2	.0187
AUG	14410	3280	--	2	.0167
SEPT	13170	4050	--	3	.0226
SUMMARY	367000	271800	69	178	.0544

SAN ANTONIO RIVER BASIN

SAN ANTONIO RIVER AT GOLIAD--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM		ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI		
WATER YEAR 1971					
OCT	16720	3490	--	2	.0153
NOV	12170	869	--	1	.0052
DEC	12470	1640	--	1	.0097
JAN	14580	2190	--	1	.0110
FEB	11570	1740	--	1	.0110
MAR	11900	2470	--	2	.0152
APR	10370	2920	--	2	.0207
MAY	8420	1990	--	1	.0174
JUNE	13410	16140	--	11	.0884
JULY	8780	4240	--	3	.0355
AUG	78980	118200	--	78	.1099
SEPT	57210	51120	--	34	.0656
SUMMARY	256600	207000	53	136	.0593

NUECES RIVER BASIN
8194000 NUECES RIVER AT COTULLA

Net Drainage Area: 5,260 square miles.

Location: U.S. Highway 81 bridge at Cotulla. Flow records are from stream-gaging station at same location.

Records Available: January 1942 to date.

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
MAX 1958	359,400	474,297	90	311	0.097
MIN 1969	28,760	6,160	1	4	0.016
AVG 29 yrs	181,476	76,580	15	50	0.031

WATER YEAR 1966

OCT	1040	75	--	0	.0053
NOV	0	0	--	0	.0000
DEC	1	0	--	0	.0000
JAN	4	0	--	0	.0000
FEB	3	0	--	0	.0000
MAR	0	0	--	0	.0000
APR	5960	2000	--	1	.0247
MAY	54690	4770	--	3	.0064
JUNE	894	52	--	0	.0043
JULY	0	0	--	0	.0000
AUG	14100	3610	--	2	.0188
SEPT	22440	3190	--	2	.0104
SUMMARY	99130	13700	3	9	.0102

WATER YEAR 1967

OCT	586	16	--	0	.0000
NOV	0	0	--	0	.0000
DEC	0	0	--	0	.0000
JAN	0	0	--	0	.0000
FEB	0	0	--	0	.0000
MAR	0	0	--	0	.0000
APR	7530	1740	--	1	.0170
MAY	81	3	--	0	.0027
JUNE	0	0	--	0	.0000
JULY	0	0	--	0	.0000
AUG	12000	4870	--	3	.0298
SEPT	107900	14240	--	9	.0097
SUMMARY	128100	20870	4	14	.0120

NUECES RIVER BASIN

NUECES RIVER AT COTULLA--Continued

	STREAMFLOW ACRE-FeET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FeET	
WATER YEAR 1968					
OCT	25150	4200	--	3	.0123
NOV	1760	179	--	0	.0075
DEC	43	0	--	0	.0000
JAN	15470	2710	--	2	.0129
FEB	9740	652	--	0	.0049
MAR	6330	342	--	0	.0040
APR	6860	427	--	0	.0046
MAY	83050	8060	--	5	.0071
JUNE	1840	116	--	0	.0046
JULY	297	12	--	0	.0030
AUG	77	1	--	0	.0010
SEPT	1020	120	--	0	.0086
SUMMARY	151600	16820	3	11	.0082
WATER YEAR 1969					
OCT	11090	2550	--	2	.0000
NOV	39	0	--	0	.0000
DEC	3	0	--	0	.0000
JAN	0	0	--	0	.0000
FEB	4	0	--	0	.0000
MAR	0	0	--	0	.0000
APR	17	0	--	0	.0000
MAY	6900	1180	--	1	.0126
JUNE	4320	866	--	1	.0147
JULY	0	0	--	0	.0000
AUG	0	0	--	0	.0000
SEPT	6390	1560	--	1	.0179
SUMMARY	28760	6160	1	4	.0157
WATER YEAR 1970					
OCT	110500	21420	--	14	.0142
NOV	41900	3720	--	2	.0065
DEC	25480	1950	--	1	.0056
JAN	7980	306	--	0	.0028
FEB	3680	99	--	0	.0020
MAR	5340	149	--	0	.0020
APR	2110	58	--	0	.0020
MAY	1140	34	--	0	.0022
JUNE	2880	108	--	0	.0028
JULY	1	0	--	0	.0000
AUG	1620	119	--	0	.0054
SEPT	12920	3050	--	2	.0173
SUMMARY	215600	31010	6	20	.0106

NUECES RIVER BASIN

NUECES RIVER AT COTULLA--Continued

	STREAMFLOW		SUSPENDED SEDIMENT LOAD OF STREAM		DRY SEDIMENT
	ACRE-FeET	TONS	TONS PER SQ MI	ACRE-FeET	PCT BY WEIGHT
WATER YEAR 1971					
OCT	17960	1670	--	1	.0068
NOV	17	0	--	0	.0000
DEC	0	0	--	0	.0000
JAN	0	0	--	0	.0000
FEB	0	0	--	0	.0000
MAR	0	0	--	0	.0000
APR	0	0	--	0	.0000
MAY	0	0	--	0	.0000
JUNE	43450	31970	--	21	.0541
JULY	241200	61210	--	40	.0186
AUG	394300	29070	--	19	.0054
SEPT	29290	5310	--	3	.0133
SUMMARY	726200	129200	25	85	.0131

NUECES RIVER BASIN

8207000 FRIO RIVER AT CALLIHAM

Net Drainage Area: 5,491 square miles.

Location: Farm Road 99 bridge, 1 mile north of Calliham.
Flow records are from stream-gaging Frio River at Calliham, about 2,500 feet upstream from sampling point.

Records Available: January 1953 to date.

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
			TONS	TONS PER SQ MI	ACRE-FEET	
MAX	1967	410,400	490,000	89	321	0.088
MIN	1969	12,290	16,460	3	11	0.098
AVG	18 yrs	160,090	150,135	27	98	0.075

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD TONS	SEDIMENT LOAD TONS PER SQ MI	OF STREAM ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
WATER YEAR 1966					
OCT	1837	883	--	1	.0353
NOV	262	33	--	0	.0093
DEC	4568	9647	--	6	.1551
JAN	109	1	--	0	.0007
FEB	2461	10038	--	7	.2996
MAR	192	16	--	0	.0061
APR	16979	11066	--	7	.0479
MAY	18647	9970	--	7	.0393
JUNE	9487	6265	--	4	.0485
JULY	893	155	--	0	.0128
AUG	11427	7129	--	5	.0458
SEPT	21481	11658	--	8	.0399
SUMMARY	88343	66861	12	44	.0556

WATER YEAR 1967					
OCT	590	62	--	0	.0077
NOV	62	5	--	0	.0059
DEC	0	0	--	0	.0000
JAN	34	0	--	0	.0000
FEB	289	49	--	0	.0125
MAR	138	35	--	0	.0186
APR	1010	610	--	0	.0444
MAY	4520	11730	--	8	.1906
JUNE	118	16	--	0	.0100
JULY	332	195	--	0	.0431
AUG	9120	16120	--	11	.1298
SEPT	394200	461200	--	303	.0859
SUMMARY	410400	490000	89	321	.0877

NUECES RIVER BASIN

FRIO RIVER AT CALLIHAM--Continued

	STREAMFLOW	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT
	ACRE-FEET	TONS	TONS PER SQ MI	ACRE-FEET	PCT BY WEIGHT
WATER YEAR 1968					
OCT	24880	21690	--	14	.0640
NOV	13660	5370	--	4	.0289
DEC	2480	159	--	0	.0047
JAN	95790	61220	--	40	.0469
FEB	10420	867	--	1	.0061
MAR	9290	2050	--	1	.0162
APR	7030	2790	--	2	.0292
MAY	111800	55870	--	37	.0367
JUNE	8030	2780	--	2	.0254
JULY	17600	10050	--	7	.0419
AUG	647	66	--	0	.0075
SEPT	3380	2910	--	2	.0632
SUMMARY	305000	165800	30	109	.0399
WATER YEAR 1969					
OCT	276	40	--	0	.0000
NOV	137	5	--	0	.0027
DEC	722	57	--	0	.0058
JAN	256	13	--	0	.0037
FEB	3850	7280	--	5	.1389
MAR	394	27	--	0	.0050
APR	1090	628	--	0	.0423
MAY	2730	4440	--	3	.1195
JUNE	377	27	--	0	.0053
JULY	0	0	--	0	.0000
AUG	1440	3550	--	2	.1811
SEPT	1030	388	--	0	.0277
SUMMARY	12290	16460	3	11	.0983
WATER YEAR 1970					
OCT	52210	27790	--	18	.0391
NOV	12630	6700	--	4	.0390
DEC	3770	789	--	1	.0154
JAN	2010	1170	--	1	.0428
FEB	1070	51	--	0	.0035
MAR	6760	3190	--	2	.0347
APR	880	30	--	0	.0025
MAY	36520	30750	--	20	.0619
JUNE	29130	13100	--	9	.0330
JULY	1060	508	--	0	.0352
AUG	2160	577	--	0	.0196
SEPT	7860	6400	--	4	.0598
SUMMARY	156100	91060	17	60	.0429

NUECES RIVER BASIN

FRIO RIVER AT CALLIHAM--Continued

	STREAMFLOW ACRE-FEET	SUSPENDED SEDIMENT LOAD OF STREAM			DRY SEDIMENT PCT BY WEIGHT
		TONS	TONS PER SQ MI	ACRE-FEET	
WATER YEAR 1971					
OCT	3430	3200	--	2	.0685
NOV	425	26	--	0	.0045
DEC	379	17	--	0	.0033
JAN	450	7	--	0	.0011
FEB	140	3	--	0	.0016
MAR	51	0	--	0	.0000
APR	108	7	--	0	.0048
MAY	0	0	--	0	.0000
JUNE	3430	7080	--	5	.1516
JULY	5830	3080	--	2	.0388
AUG	291200	35790	--	23	.0090
SEPT	23910	11120	--	7	.0342
SUMMARY	329300	60330	11	40	.0135

NUECES RIVER BASIN

8210500 LAKE CORPUS CHRISTI NEAR MATHIS

Net Drainage Area: 16,656 square miles.

Location: Sediment outflow measured at State Highway 359 bridge about 0.6 mile downstream from Wesley E. Seale Dam. Flow records are from stream-gaging station Nueces River near Mathis, at the same location.

Records Available: February 2, 1942 through May 1958, and July 1961 to date.

I. RATIOS OF RESERVOIR CAPACITY TO INFLOW

	RECORD PERIOD	RESERVOIR CAPACITY a/ ACRE-FEET	RESERVOIR INFLOW ACRE-FEET	RATIO C/I
MAX	1962	281,679	76,167	3.70
MIN	1971	275,367	1,787,760	0.15
AVG	59-71	280,168	684,594	0.92 ^{b/}
	1966	279,885	477,828	0.59
	1967	279,042	1,726,920	0.16
	1968	278,137	961,506	0.29
	1969	276,753	118,287	2.34
	1970	276,505	713,934	0.39
	1971	275,367	1,787,760	0.15

II. SEDIMENT OUTFLOW FROM RESERVOIR

	RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
MAX	1967	1,569,000	177,625	117	0.008
MIN	1963	79,240	2,769	2	0.003
AVG	10 yrs	576,171	54,158	35	0.005
	1966	327,300	23,400	15	0.005
	1967	1,569,000	17,600	116	0.008
	1968	894,000	73,640	48	0.006
	1969	98,170	4,810	3	0.004
	1970	519,700	70,290	46	0.010
	1971	1,549,000	149,100	98	0.007

NUECES RIVER BASIN

LAKE CORPUS CHRISTI NEAR MATHIS--Continued

III. SEDIMENT DISCHARGE WITH FLOOD RELEASES IN 1966-71^{c/}

RECORD PERIOD	STREAMFLOW ACRE-FEET	SUSPENDED TONS	SEDIMENT LOAD ACRE-FEET	DRY SEDIMENT PCT BY WEIGHT
May 2- June 10, 1966	236,400	18,653	12	0.006
Sept. 21- Oct. 11, 1967	1,463,133	186,302	122	0.009
Oct. 16- 30, 1967	45,977	4,318	3	0.007
Jan. 21- Feb. 11, 1968	239,645	14,802	10	0.005
May 8- June 5, 1968	285,876	15,806	10	0.004
July 12- 16, 1968	25,230	4,909	3	0.014
Oct. 19- Nov. 19, 1969	124,877	5,438	4	0.016
Dec. 29, 1969- Jan. 6, 1970	7,726	3,300	2	0.038
Mar. 12-20, 1970	15,622	2,662	2	0.013
May 25- June 14, 1970	230,852	50,447	33	0.014
July 8-18, 1971	215,852	17,480	12	0.005
Aug. 8- Sept. 6- 1971	654,883	74,537	49	0.006
Sept. 10-30, 1971	601,079	53,578	35	0.007

a/ Estimates of reservoir capacity are based on October 1972 sediment survey and were determined using sediment inflow values taken from an adjusted sediment production curve for stream-gaging station Nueces River at Three Rivers, less measured sediment outflow.

b/ Average for the period 1959-71.

c/ Sediment outflow during periods of flood discharge are included in the annual totals shown in Part II. These figures reflect that part of annual sediment outflow occurring within very brief flood periods.