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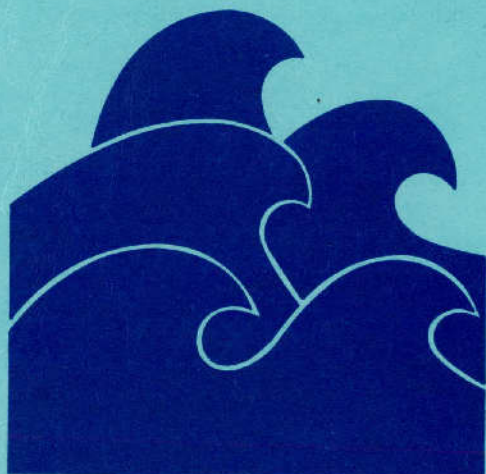
*STREAMFLOW AND
RESERVOIR-CONTENT RECORDS
IN TEXAS*

Compilation Report January 1889 Through December 1975
Volume 1

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TEXAS DEPARTMENT OF WATER RESOURCES

February 1980

TEXAS DEPARTMENT OF WATER RESOURCES

REPORT 244

STREAMFLOW AND RESERVOIR-CONTENT RECORDS IN TEXAS

Compilation Report

January 1889 through December 1975

By

John P. Dougherty, P.E.

VOLUME 1

**Gaging Stations in the Canadian, Red,
Sulphur, Cypress Creek, Sabine, Neches,
Trinity, and San Jacinto Basins
and Adjoining Coastal Basins**

February 1980

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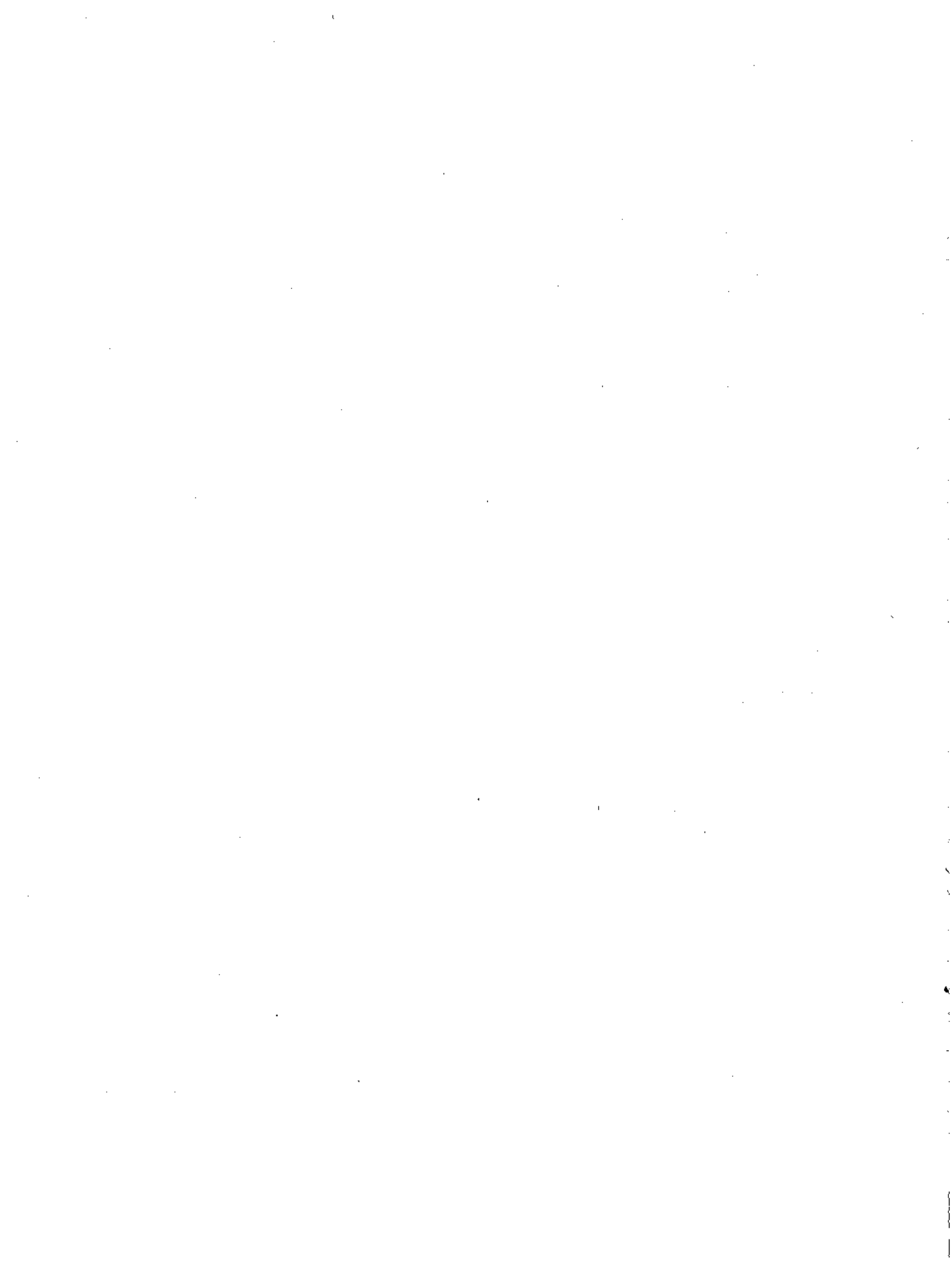
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STREAMFLOW AND RESERVOIR-CONTENT RECORDS IN TEXAS

Compilation Report

January 1889 through December 1975

INTRODUCTION

The primary purpose of this report is to present a complete compilation of available historical monthly streamflow and reservoir-content records which have been obtained in Texas, spanning an 87-year period from January 1889 through December 1975.

The most recent previous compilation of this type for Texas was published in September 1958 as Bulletin 5807-A, "Compilation of Surface Water Records in Texas Through September 1957," prepared by the Texas Board of Water Engineers in cooperation with the Geological Survey, United States Department of the Interior. Other compilation reports are listed in a subsequent section.

This report was prepared under the general direction of C. R. Baskin, director, Data and Engineering Services Division, and T. R. Knowles, section chief, Data Collection and Evaluation Section. Machine printouts of the surface-water data were prepared by the staff of the Information Systems and Services Division.

SOURCES OF DATA

The following agencies, municipalities, and local interests participate or have participated or cooperated in maintaining equipment and gathering streamflow, reservoir content, and canal data during the period of this compilation report.

Federal Agencies

United States Department of Agriculture, Soil Conservation Service

United States Department of the Army, Corps of Engineers

United States Department of Commerce, National Weather Service

United States Department of Health, Education, and Welfare

United States Department of the Interior, Bureau of Reclamation

United States Department of the Interior, Bureau of Sport Fisheries and Wildlife

United States Department of the Interior, Geological Survey, Water Resources Division

United States Department of the Interior, Water Pollution Control Administration

United States Department of State, International Boundary and Water Commission, United States Section

State Agencies

Bexar-Medina-Atascosa Counties Water Improvement District No. 1

Bistone Municipal Water Supply District

Brazos River Authority

Brown County Water Improvement District No. 1

Canadian River Municipal Water Authority

Colorado River Municipal Water District

Dallas Levee Improvement District

Eastland County Water Supply District

Edwards Underground Water District
 Franklin County Water District
 Greenbelt Municipal and Industrial Water Authority
 Guadalupe-Blanco River Authority
 Harris County Flood Control District
 Hubbard Creek Water Commission
 Lower Colorado River Authority
 Lower Neches Valley Authority
 Lower Nueces River Water Supply District
 Mackenzie Municipal Water Authority
 North Central Texas Municipal Water Authority
 Northeast Texas Municipal Water District
 Palo Pinto County Municipal Water District No. 1
 Panola County Fresh Water District No. 1
 Pecos County Water Improvement District No. 1
 Pecos River Commission

Red Bluff Water Power Control District

Reeves County Water Improvement District No. 1

Sabine River Authority

Sabine River Compact Administration

San Antonio River Authority

San Jacinto River Authority

State Tubercular Sanitarium

Tarrant County Water Control & Improvement District No. 1

Texas A&M University

Texas Department of Highways and Public Transportation

Texas Reclamation Department

Titus County Fresh Water Supply District No. 1

Tom Green County Water Control & Improvement District No. 1

Trinity River Authority

Upper Guadalupe River Authority

Upper Neches River Municipal Water Authority

Walker-Caldwell County Water Improvement District No. 1

Ward County Irrigation District No. 1

Ward County Water Improvement District No. 2

Ward County Water Improvement District No. 3

West Central Texas Municipal Water District

White River Municipal Water District

Wichita County Water Improvement District No. 1

Wichita County Water Improvement District No. 2

Zavala County Water Improvement District No. 2

Counties

Comal

Dallas

Wharton

Wilbarger

Wood

Municipalities

Abilene

Alice

Amarillo

Arlington

Austin

Brady	Arlington Land Company
Breckenridge	Athens Municipal Water Authority
Brownwood	Barstow Irrigation Company
Bryan	Beaumont Chamber of Commerce
Cleburne	Brady Chamber of Commerce
Clyde	Breckenridge Chamber of Commerce
Corpus Christi	Central & Southwest Utilities Company
Dallas	Central Power & Light Company
El Paso	Chocolate Bayou Land and Water Company
Fort Worth	Clark, J. A.
Gainesville	Coleman Chamber of Commerce
Graham	Comal Power Plant
Houston	Cory, E. N.
Lampasas	Cuero Commercial Club
Longview	Dallas Power & Light Company
Lubbock	Dayton Canal Company
Lufkin	Dow Chemical Company
Nacogdoches	Electra Chamber of Commerce
Pecos	Emery, Peck, & Rockwood Development Company
Plainview	Freese and Nichols, Consulting Engineers
San Angelo	Galveston, Harrisburg, & San Antonio Railroad Company
Sweetwater	Garwood Irrigation Company
Tulia	GMA Development Corporation
Tyler	Guadalupe Water Power Company
Waco	Gulf, Colorado, & Santa Fe Railway Company
Wichita Falls	Harrison, Leslie

Local Interests

Alice Water Authority	Houston Lighting and Power Company
American Canal Company	Humble Oil & Refining Company
	Imperial Irrigation Company

International-Great Northern Railroad Company
Jefferson Chamber of Commerce
Kansas City, Mexico, & Orient Railroad Company
Lakeside Irrigation Company
Lone Star Steel Company
Markham Irrigation Company
Medina River Property Owners Association
Medina Valley Irrigation Company
Mineral Wells Chamber of Commerce
Missouri-Kansas-Texas Railroad Company
Pecos Valley Lines
Pierce Estate
Planters & Merchants' Mills
Richmond Irrigation Company
St. Louis-Southwestern Railway Company
Salt Water Disposal Committee
San Antonio City Public Service Board
San Antonio City Water Board
San Marcos Utilities Company
Snyder Chamber of Commerce
South Texas Water Company
Southwestern Electric Power Company
Stark, H. J. L.
Texas & New Orleans Railroad Company
Texas & Pacific Railway Company
Texas Electric Service Company
Texas Power & Light Company
Texas Utilities Services, Incorporated
Uvalde & Gulf Railroad Company

West Texas Utilities Company
Winter Garden Irrigation Company
Zimmerman Canal Company

OTHER COMPILATION REPORTS

In addition to Bulletin 5807-A, other publications compiling surface-water records in Texas are listed below:

Water-Supply Paper 1311, Compilation of Records of Surface Waters of the United States through September 1950. Part 7. Lower Mississippi River Basin. (Monthly data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1312, Compilation of Records of Surface Waters of the United States through September 1950. Part 8. Western Gulf of Mexico Basins. (Monthly data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1731, Compilation of Records of Surface Waters of the United States, October 1950 to September 1960. Part 7. Lower Mississippi River Basin. (Monthly data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1732, Compilation of Records of Surface Waters of the United States, October 1950 to September 1960. Part 8. Western Gulf of Mexico Basins. (Monthly data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1920, Surface Water Supply of the United States, 1961-65. Part 7. Lower Mississippi River Basin. Volume 1. Lower Mississippi River Basin Except Arkansas River Basin. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1921, Surface Water Supply of the United States, 1961-65. Part 7. Lower Mississippi River Basin. Volume 2. Arkansas River Basin. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1922, Surface Water Supply of the United States, 1961-65. Part 8. Western Gulf of Mexico Basins. Volume 1. Basins from Mermentau River to Colorado River. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 1923, Surface Water Supply of the United States, 1961-65. Part 8. Western Gulf of Mexico Basins. Volume 2. Basins from Lavaca

River to Rio Grande. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 2120, Surface Water Supply of the United States, 1966-70. Part 7. Lower Mississippi River Basin. Volume 1. Lower Mississippi River Basin Except Arkansas River Basin. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 2121, Surface Water Supply of the United States, 1966-70. Part 7. Lower Mississippi River Basin. Volume 2. Arkansas River Basin. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 2122, Surface Water Supply of the United States, 1966-70. Part 8. Western Gulf of Mexico Basins. Volume 1. Basins from Mermentau River to Colorado River. (Daily data) Prepared by the U.S. Geological Survey.

Water-Supply Paper 2123, Surface Water Supply of the United States, 1966-70. Part 8. Western Gulf of Mexico Basins. Volume 2. Basins from Lavaca River to Rio Grande. (Daily data) Prepared by the U.S. Geological Survey.

Summary Water Bulletin No. 1, Flow of the Rio Grande and Related Data from San Marcial, New Mexico to the Gulf of Mexico, 1889-1955. (Monthly data) Prepared by the International Boundary and Water Commission, United States and Mexico Sections.

METRIC CONVERSIONS

For readers interested in using the metric system, metric equivalents of English units of measurement are given in parentheses in the text. The English units used in this report may be converted to metric units by the following conversion factors:

From Unit	Multiply by	To obtain Unit
acre (ac)	0.004047	square kilometer (km ²)
acre-foot (ac-ft)*	.001233	cubic hectometer (hm ³)
cubic foot per second (ft ³ /s)	.02832	cubic meter per second (m ³ /s)
foot (ft)	.3048	meter (m)
mile (mi)	1.609	kilometer (km)
square mile (mi ²)	2.590	square kilometer (km ²)

*The quantity of water required to cover an acre to a depth of one foot; equivalent to 43,560 cubic feet.

DOWNSTREAM ORDER AND STATION NUMBER

The stations shown in this report are listed in downstream order, beginning with the uppermost station on the main stem and proceeding downstream. When a tributary entering a main stem contains one or more gaging stations, these stations are listed beginning at the uppermost station of the tributary and proceeding downstream until either another tributary is encountered or the main stem is reached.

Each station has been assigned an eight-digit number which is determined in a downstream order by the U.S. Geological Survey and is accepted and used universally throughout the United States. The first two digits, either 07 or 08, identify the major river basin as previously published in a series of Water-Supply Papers on the Surface Water Supply of the United States. The digits 07 indicate the Lower Mississippi River Basin and the digits 08 indicate the Western Gulf of Mexico basins. The remaining six digits of the station number are sequential in downstream order. The use of this number allows the station data to be adapted very readily for machine processing by high-speed computers into which all these data are stored.

DESCRIPTION AND EXPLANATION OF DATA

The data compiled in this report represent a total of 825 gaging stations and consist of records of the monthly discharge of streams, canals, floodways, and end-of-month contents of reservoirs in Texas, summarized on a monthly and calendar year basis. Compiled are the records of 693 streamflow stations, 28 canal stations, 9 floodway stations, and 86 reservoir-content stations. In addition, streamflow records are shown for 7 stations in New Mexico and 1 each in the states of Oklahoma and Arkansas.

The station description gives the location of the gaging station, drainage area where applicable, period of record, gage type and datum, average discharge, extremes of discharge, and general remarks. The station descriptions presented in this report have been greatly simplified in content from the descriptions published annually in the Water-Supply Papers and Water Resources Data reports by the U.S. Geological Survey. Most users of streamflow and reservoir-content data have ready access to these annual reports and are encouraged to refer to them if more detail and history of any particular gaging station are desired.

The location, drainage area, and period of record shown here is the present or most recent information for that particular station. Under period of record, information is given for any previous name of said station if different from the current name.

The average discharge for a station is given where data are available covering all or any part of at least five years of record. This procedure differs from the criteria used by the U.S. Geological Survey which uses only complete years of record. The reason for this difference is that in this report the annual mean is the sum of the monthly means, which considers every month of data available during the period of record through 1975.

Another difference between the average discharge shown in this report as compared to a similar period in the U.S. Geological Survey reports is that the annual mean in this report is computed on a calendar year basis, whereas the USGS average is computed on a water-year basis which begins October 1 and ends September 30.

Each monthly figure shown herein represents a full month's flow, except for the nine floodway stations in the lower Rio Grande basin. Because of the unique nature of the floodway stations, these data represent the total flow past a certain station even though most flows occurred for just a few days during the month. The remainder of the stations are continuous recording gages and no record for part of a month is shown. Similarly, if any month in a given calendar year is missing, no yearly total is shown.

A number of corrections and revisions were made throughout this report involving both the data and the station descriptions. Since this report is designed to show only the latest figures available, no reference to corrected or revised figures is made. Certain periods of record were estimated to complete some months, but these are not footnoted.

DISCREDITED STATIONS

For a few stations, it was found that part or all of the previously published records were grossly in error, yet the available basic data were such that the record could not be improved or revised. The stations so omitted and for which the entire record should not be used are listed below:

<u>Station</u>	<u>Years</u>
Brazos River at Brazos	1914-20
Brazos River near San Felipe	1938-45, 1954-57
Deep Creek near Snyder	1923-25
Colorado River near Bronte	1915-18
Colorado River at Marble Falls	1916-26
Little Walnut Creek near Austin	1924-26
Guadalupe River near Gonzales	1915-22
Nueces River near Cotulla	1915-18
Frio Lake Outlet near Fowlerston	1915-19
Frio River at Fowlerston	1915-19
Nueces River at Calallen	1915-18
Barrilla Creek near Pecos	1940

In addition to the above, records for certain other stations in Texas previously published by the U.S. Geological Survey in the annual Water-Supply Papers are omitted from this report. In general, these records are either too fragmentary to allow computation of monthly discharge or do not measure streamflow and are considered not important enough to warrant compilation in this report. These stations are all located in the Rio Grande basin and are listed below:

<u>Station</u>	<u>Years</u>
John Camp Pump near Orla	1940-41
Joe B. Neel Pump near Riverton	1940
M. R. Estes Pump near Mentone	1940-41
Cedervale Canal near Barstow	1922-25
Boxley Canal near Barstow	1923-25
Margueretta Flume near Pecos	1898, 1900-07
West Valley Ditch near Pecos	1904
Drainage into Soda Lake near Barstow	1939-41
Reeves County WID No. 2 Canal Wasteway near Pecos	1939-41
John T. Yarborough Pump near Pecos	1940-41
Ward County Irrigation District No. 1 Lateral No. 1 near Barstow	1939-40
Barstow Drainage Ditch No. 1 near Barstow	1939-40
Rock Quarry Draw near Barstow	1939-40
Barstow Drainage Ditch below confluence of Ditches No. 2, 3, and 4 near Barstow	1939-41
Ward County Irrigation District No. 1 Canal Wasteway below Barstow	1940

<u>Station</u>	<u>Years</u>	<u>Station</u>	<u>Years</u>
E. W. Fate Pump near Grandfalls	1940-41	Ward County WJD No. 2 Canal Wasteway below Grandfalls	1939-40
Pecos County WID No. 2 West Lateral Wasteway near Buena Vista	1940	Pecos County WID No. 2 East Lateral Wasteway below Buena Vista	1940
Pecos County WID No. 3 Canal near Grandfalls	1939-40	Pecos County WID No. 3 Canal Wasteway below Buena Vista	1940
Pecos County WID No. 3 Canal below Buena Vista	1940-41	Drainage from Powell Lake below Buena Vista	1940-41
Ward County WID No. 2 Lateral No. 2 Wasteway below Grandfalls	1939-40		

CANADIAN RIVER BASIN

07227000 Canadian River at Logan, New Mexico

LOCATION: Lat 35°21'25", long 103°25'03", in NEKNE4 sec. 15, T. 13 N., R. 33 E., Quay County, New Mexico, 1,100 ft (340 m) upstream from the bridge on U.S. Highway 54, 0.7 mi (1.1 km) south of Logan, New Mexico, 1.4 mi (2.3 km) upstream from the Chicago, Rock Island, & Pacific Railroad Co. bridge, 2.0 mi (3.2 km) downstream from Ute Dam, and 4.3 mi (6.9 km) upstream from Revuelto Creek.

DRAINAGE AREA: 11,141 mi² (28,856 km²), of which 1,110 mi² (2,870 km²) is probably noncontributing.

PERIOD OF RECORD: January to September 1909, February to July 1910, October 1911 to April 1914, January to May 1924, September 1924 to July 1926, January 1927 to April 1934, August 1934 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 3,568.1 ft (1,118.04 m) above mean sea level.

AVERAGE DISCHARGE: 58 years (1909-14, 1924-25, 1927-75), 175,143 ac-ft/yr (217.2 hm³/yr).

EXTREMES: Period of record (1909-14, 1924-25, 1927-75): Maximum discharge, 219,000 ft³/s (6,200 m³/s) Sept. 22, 1941 (gage height, 29.3 ft or 8.93 m, from floodmarks); no flow at times prior to completion of Ute Dam.

Maximum discharge, 278,000 ft³/s (7,870 m³/s) Sept. 30, 1904 (gage height, 36.5 ft or 11.13 m, site and datum used in 1909).

REMARKS: Records fair. The flow is regulated by Conchas Lake located 45 mi (72.4 km) upstream since 1938, and Ute Reservoir located 2 mi (3.2 km) upstream since 1962.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1909	1290	202	0	7.00	2700	91600	12700	51100	204000	-	-	-	-
1910	-	3930	-	8870	10900	46300	20900	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	7380	5360	2150	-
1912	5220	4550	16800	35000	76200	59400	8730	45600	2280	12.0	217	553	254562
1913	1000	2140	1520	10700	388	290000	19600	6760	5230	7380	1890	2930	349538
1914	10900	3000	1220	11400	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	9740	17140	19600	44490	43030	-	-	-	11560	130	14.0	103	-
1925	221	1350	305	323	22940	147	52120	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	3480	1370	36.0	0	0	14200	71250	123600	16380	2210	52.0	0	232578
1928	369	1230	99.0	0	36610	78790	10940	34940	21000	71770	13350	4920	274018
1929	5950	6540	7150	5020	44800	35760	36250	73740	24310	10020	11170	11500	272210
1930	10000	5580	406	262	1860	36300	41800	25500	6450	245000	7530	5590	386278
1931	6300	5080	7940	22200	55500	3910	14700	26600	12700	7230	2120	1920	166200
1932	3530	3320	1280	24.0	52100	61000	12800	18600	9750	4980	1720	825	169929
1933	1650	1790	926	0	0	31600	21000	67900	22400	714	121	365	148466
1934	1510	1600	198	0	-	-	-	14960	21640	262	0	2.00	-
1935	24.0	0	0	0	82400	65830	13210	126300	36940	3260	1330	1600	330894
1936	1250	990	121	0	2610	13670	48840	16490	3330	750	30.0	34.0	68115
1937	2.00	0	89.0	8150	252600	440700	25630	16810	61450	2100	7.90	60.0	807599
1938	415	990	371	442	27890	108300	60400	8240	153800	49780	2900	2770	416298
1939	2340	97.0	60.0	288	20320	7490	30410	26790	419	6.00	0	36.0	88256
1940	123	208	315	0	2840	3820	653	8850	30.0	0	54.0	4.09	17302
1941	95.0	28.0	2570	13770	224500	279700	138600	64200	477600	297900	39440	29320	1567723
1942	11530	8790	5870	412400	163900	6390	27940	42620	271000	41040	25080	3320	1019880
1943	23880	1060	518	0	1410	3260	10040	11280	292	95.0	9.9	452	52297
1944	2180	450	448	212	29670	32720	13890	31720	29950	2550	1360	2970	148120
1945	2650	1580	545	1720	1290	1110	4550	18830	825	1740	258	4.24	35522
1946	748	377	298	18.0	35680	3220	1330	10770	43550	45170	2510	845	144516
1947	1630	1220	986	20.0	33720	4480	24770	8180	95.0	0	135	2.36	75472
1948	186	3840	3530	367	1560	78330	6120	16030	9.9	67.0	375	6.00	110421
1949	454	2130	1040	6840	11310	28490	24560	19800	5890	171	24.0	5.24	101233
1950	278	151	73.0	904	14.0	7170	82570	15350	14050	621	26.0	1.29	121336
1951	234	379	764	67.0	29210	8150	24280	1440	791	484	399	206	66404
1952	113	12.0	545	496	349	389	8110	22200	1140	111	163	1.84	33812
1953	171	79.0	63.0	12.0	212	2.00	10550	32510	1490	210	276	2.58	45833
1954	296	169	116	62.0	118	30.0	357	1730	420	42060	210	1.35	45703
1955	214	117	2.00	1460	30460	135	17550	11870	7830	60.0	7.90	103	69809
1956	186	252	0	20.0	4050	6990	20120	3770	0	0	0	0	35388
1957	54.0	125	65.0	1990	5420	3240	20120	32970	5860	5530	405	260	76039
1958	446	232	2230	2040	50810	44110	21560	35980	25170	621	373	383	183955

CANADIAN RIVER BASIN

07227000 Canadian River at Logan, New Mexico--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	899	916	226	573	1150	1490	4120	38120	807	1550	484	5410	55345
1960	1920	924	659	292	258	26540	74200	22960	2670	23720	1520	5180	160843
1961	3530	15650	11490	12510	4930	1350	15270	10350	22010	2500	1980	1030	102600
1962	1190	3550	1960	1240	1800	4130	21570	4850	2790	558	448	313	44399
1963	53.0	102	38.0	16.0	39.0	37.0	40.0	73.0	228	80.0	106	115	927
1964	92.0	87.0	97.0	167	134	48.0	61.0	89.0	103	165	117	121	1281
1965	138	106	130	100	61.0	258	136	146	11980	20000	2390	178	35623
1966	175	151	143	134	130	148	130	5030	348	160	156	186	6891
1967	172	158	164	127	112	3950	30340	5150	4590	7100	2940	175	54978
1968	165	153	159	149	158	148	152	139	141	152	157	157	1830
1969	167	157	155	138	146	34220	12000	7370	49880	8010	175	153	112571
1970	186	180	205	207	201	161	2750	5730	705	513	158	178	11174
1971	161	150	172	151	188	2490	6990	16110	158	148	133	144	26995
1972	143	144	143	123	135	114	15520	13100	29760	1380	160	146	60868
1973	151	139	167	4560	149	166	1030	2320	130	130	141	149	9232
1974	134	117	143	125	149	124	135	106	126	152	330	141	1782
1975	136	133	131	127	128	137	176	121	129	127	108	99.0	1552
MAX	23860	17140	19600	412400	252600	440700	138600	126300	477600	297900	39440	29320	1567723
MIN	2.00	0	0	0	0	2.00	40.0	73.0	0	0	0	0	927
MEAN	2183	1866	1714	10898	25354	37212	21577	23188	30683	17318	2461	1687	176143
NO.	55	56	55	56	54	53	53	52	53	53	53	53	50
DISTR OF MEAN	1.2%	1.1%	1.0%	6.2%	14.4%	21.1%	12.2%	13.2%	17.4%	9.8%	1.4%	1.0%	100%

CANADIAN RIVER BASIN

07227100 Revuelto Creek near Logan, New Mexico

LOCATION: Lat 36°20'28", long 103°23'40", in SW¼NW¼ sec. 24, T. 13 N., R. 33 E., Quey County, New Mexico, 0.3 mi (0.5 km) upstream from the bridge on State Highway 39, and 1.9 mi (3.1 km) southeast of Logan, New Mexico.

DRAINAGE AREA: 786 mi² (2,036 km²).

PERIOD OF RECORD: August 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 3.665 ft (1,117 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 38,206 ac-ft/yr (47.1 km³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 26,700 ft³/s (756 m³/s) July 9, 1960 (gage height, 14.3 ft or 4.36 m); no flow at times.

Maximum discharge, 26,100 ft³/s (739 m³/s) gage height, 12.9 ft (3.93 m), was measured by slope-area method in May 1957.

REMARKS: Records poor. The low flows are supplemented by surface and ground water returns from irrigation in the vicinity of Tucumcari, New Mexico.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	22210	1780	597	89.0	7960	-
1960	1170	1900	278	430	1120	29300	73980	21040	10070	19670	492	1940	161390
1961	446	405	754	849	2210	2740	5560	5450	6030	2180	2030	210	28864
1962	159	48.0	1430	2520	2210	4260	11670	4660	5170	1180	177	238	33722
1963	137	450	383	2550	6870	3250	3260	9090	2930	629	12.0	65.0	29626
1964	81.0	603	28.0	286	694	60.0	159	524	290	0	734	14.0	3473
1965	0	0	91.0	46.0	6250	2920	7030	2830	2590	1400	6.90	70.0	23234
1966	8.40	99.0	37.0	734	1760	3940	5830	11180	997	412	12.0	385	25394
1967	16.0	16.0	66.0	488	1190	1280	14730	6970	2540	334	61.0	305	27996
1968	630	217	191	715	1950	1110	1690	2360	774	990	8700	293	19620
1969	85.0	189	111	785	10860	3520	2650	4330	30660	2710	541	305	56746
1970	226	133	357	20590	1260	980	3930	5090	6010	1090	210	162	40038
1971	217	225	138	992	3730	2750	6140	6430	2420	1290	1550	496	26378
1972	185	116	9.7	210	483	54.0	29220	23840	11360	1460	534	389	67861
1973	295	282	582	716	1190	987	4850	2020	1440	1080	52.0	242	13736
1974	305	460	168	1270	1110	503	947	2320	4970	20500	601	309	23463
1975	349	716	196	306	305	2640	6280	3550	299	12.0	80.0	-10	14733
MAX	1170	1900	1430	20590	10860	29300	73980	23840	30660	19670	8700	7960	161390
MIN	0	0	9.7	46.0	305	54.0	159	524	290	0	6.90	-10	3473
MEAN	269	366	301	2093	2700	3768	11120	7876	5314	2678	934	787	38206
NO.	16	16	16	16	16	16	16	17	17	17	17	17	16
DISIR OF MEAN	.7%	1.0%	.8%	5.5%	7.1%	9.9%	29.1%	20.6%	13.9%	7.0%	2.4%	2.1%	100%

CANADIAN RIVER BASIN

07227200 Tramperos Creek near Stead, New Mexico

LOCATION: Lat 36°04'15", long 103°12'10", in NW¼NW¼ sec. 10, T. 21 N., R. 35 E., Union County, New Mexico, at the bridge on State Highway 18, 2.1 mi (3.4 km) south of Stead, New Mexico, and 26 mi (42 km) south of Clayton, New Mexico.

DRAINAGE AREA: 656 mi² (1,440 km²).

PERIOD OF RECORD: July 1966 to December 1973.

GAGE: Water-stage recorder. Datum of gage is 4,481.19 ft (1,365.87 m) above mean sea level, datum of 1929. Prior to Feb. 6, 1969, at site 90 ft (27 m) upstream at datum 1.61 ft (0.49 m) lower.

AVERAGE DISCHARGE: 8 years, 2,980 ac-ft/yr (3.6 hm³/yr).

EXTREMES: Period of record (1966-73): Maximum discharge, 12,300 ft³/s (348 m³/s) Oct. 17, 1965, gage height, 14.9 ft (4.54 m), from floodmark, present datum, by slope-area measurement; no flow most of the time.

A flood in 1904 reached a stage of 27.4 ft (8.3 m), discharge, 45,500 ft³/s (1,290 m³/s) from information by the New Mexico State Highway Department.

REMARKS: Records poor.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	489	327	158	0	0	0	-
1967	0	0	0	13.0	89.0	1540	1700	132	671	0	0	0	4145
1968	0	0	17.0	0	0	0	49.0	0	0	0	0	0	66.0
1969	0	0	0	0	74.0	13.0	1100	1520	6040	258	145	84.0	9234
1970	38.0	38.0	31.0	27.0	0	0	3.60	0	0	0	0	0	138
1971	0	0	0	0	966	135	180	725	0	0	0	0	2006
1972	0	0	0	0	74.0	0	4520	409	1090	32.0	41.0	63.0	6229
1973	39.0	31.0	154	158	17.0	0	0	0	0	0	0	0	399
MAX	39.0	38.0	154	158	966	1540	4520	1520	6040	258	145	84.0	9234
MIN	0	0	0	0	0	0	0	0	0	0	0	0	66.0
MEAN	11.0	9.9	28.9	28.3	174	241	1005	389	995	36.2	23.2	18.4	2960
NO.	7	7	7	7	7	7	8	8	8	8	8	8	7
DISTR OF MEAN	.4%	.3%	1.0%	1.0%	5.9%	8.1%	34.0%	13.1%	33.6%	1.2%	.8%	.6%	100%

CANADIAN RIVER BASIN

07227448 Punta de Agua Creek near Channing, Texas

LOCATION: Lat 35°40'03", long 102°28'48", Hartley County, at the bridge on Farm Road 767, 8.6 mi (13.7 km) west of Channing, and 10.3 mi (16.6 km) upstream from the mouth.

DRAINAGE AREA: 3,568 mi² (9,241 km²), of which 2,088 mi² (5,365 km²) is probably noncontributing.

PERIOD OF RECORD: November 1967 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 3,390.87 ft (1,033.54 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 7 years, 11,414 ac-ft/yr (14.1 hm³/yr).

EXTREMES: Period of record (1967-73): Maximum discharge, 24,200 ft³/s (665 m³/s) Aug. 28, 1972, gage height, 6.00 ft (1.83 m); no flow for many days each year.

REMARKS: Records poor. The flow is partly regulated by Lake Rita Blanca on Rita Blanca Creek, capacity, 12,100 ac-ft (14.0 hm³), located 23 mi (37 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	-	1.00	4.40	-
1968	99.0	48.0	97.0	20	2040	829	0	0	0	0	0	0	3108
1969	37.0	29.0	97.0	8.90	0	0	0	0	3.50	126	343	341	985
1970	403	239	192	240	4.70	20	1.50	0	0	0	0	6.70	1087
1971	125	154	52.0	33.0	480	153	995	336	50	134	1880	228	4571
1972	177	93.0	17.0	3.00	2540	85.0	38140	12940	576	306	468	559	55904
1973	802	573	627	599	114	0	0	0	0	-	-	-	-
MAX	802	573	627	599	2540	829	38140	12940	576	306	1880	559	55904
MIN	37.0	29.0	17.0	20	0	0	0	0	0	0	0	0	985
MEAN	273	189	180	147	863	178	6523	2213	96.7	113	449	189	11414
NO.	6	6	6	6	6	6	6	6	6	5	6	6	5
DISTR OF MEAN	2.4%	1.7%	1.6%	1.3%	7.6%	1.6%	57.1%	19.4%	.8%	1.0%	3.9%	1.7%	100%

CANADIAN RIVER BASIN
07227470 Canadian River at Tascosa, Texas

LOCATION: Lat 36°31'10", long 102°15'30", Oldham County, at the bridge on U.S. Highway 385, 0.8 mi (1.3 km) northwest of Tascosa, and 1.0 mi (1.6 km) southwest of Boys Ranch.

DRAINAGE AREA: 18,536 mi² (48,008 km²), of which 3,823 mi² (9,902 km²) is probably noncontributing.

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 3,169.25 ft (965.987 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 133,734 ac-ft/yr (184.9 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 27,600 ft³/s (779 m³/s) July 27, 1971 (gage height, 8.50 ft or 2.591 m); no flow at times each year.

Maximum stage probably occurred October 1904 from information by local residents.

REMARKS: Records poor. There is some regulation by Conchas and Ute Reservoirs in New Mexico (capacity, 439,700 ac-ft or 542.2 hm³). Conchas and Bell Ranch Canals divert water from the Conchas Reservoir for irrigation of about 36,900 acres (15,000 hm²) in New Mexico.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	2320	331	322	-
1969	240	1160	1220	339	28030	89860	24600	19060	127900	19440	3400	3080	318829
1970	3520	1120	1350	27810	2430	3120	3130	12910	7260	3760	1220	810	66470
1971	1380	3340	661	1700	13710	23990	49850	43430	8790	3610	16130	2230	167021
1972	2150	1050	215	38.0	5840	5540	57540	82620	73550	12070	2430	2120	245143
1973	1500	1570	1840	7970	1900	229	10020	6400	1550	256	224	509	33968
1974	606	365	836	0	2870	265	117	45260	9740	16030	3190	1390	80669
1975	1670	2210	1570	1900	1050	12270	7780	8460	2.00	0	0	41.00	32953
MAX	3520	2210	1840	27810	28030	89860	57540	82620	127900	19440	16130	3080	318829
MIN	606	365	215	0	1050	229	117	4460	2.00	0	0	41.0	32953
MEAN	1652	1264	1099	5677	7976	19039	21862	10591	32685	7213	3366	1310	133734
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	1.2%	.9%	.8%	4.2%	6.0%	19.2%	16.3%	22.9%	24.4%	5.4%	2.5%	1.0%	1.00%

CANADIAN RIVER BASIN

07227500 Canadian River near Amarillo, Texas

LOCATION: Lat 35°28'13", long 101°52'45", Potter County, at the bridge on U.S. Highways 87 and 287, 1,500 ft (457 m) downstream from Pitcher Creek, 1.4 mi (2.3 km) downstream from East Amarillo Creek, 1.7 mi (2.7 km) downstream from the Panhandle and Santa Fe Railway Co. bridge, and 19 mi (31 km) north of Amarillo.

DRAINAGE AREA: 19,445 mi² (50,362 km²), of which 4,069 mi² (10,539 km²) is probably noncontributing.

PERIOD OF RECORD: January 1924 to December 1925, January 1938 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,989.16 ft (911.096 m) above mean sea level, datum of 1928. Jan. 16, 1924 to Dec. 31, 1925 and Apr. 3 to June 1, 1938, nonrecording gage at the site of an old bridge 20 ft (6 m) upstream at same datum. June 2 to Dec. 5, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 40 years, 272,137 ac-ft/yr (336.5 hm³/yr).

EXTREMES: Period of record (1924-25, 1938-75): Maximum discharge, 136,000 ft³/s (3,820 m³/s) July 25, 1941 (gage height, 15.7 ft or 4.79 m); no flow at times January 1924 to December 1925 and Aug. 7, 8, 1940.

Flood in May 1914 reached a stage of 24 ft (7.3 m); a higher stage occurred during a flood in October 1904 from information by a local resident.

REMARKS: Records poor. The extreme low flow is maintained by effluent from the City of Amarillo.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	28700	26100	16500	34000	30800	9180	20600	56800	21700	615	406	317	245718
1925	812	1650	252	540	27900	8630	149000	173000	150000	96400	2790	987	611475
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	500	1100	500	2330	50730	162900	110800	11340	143700	124200	2990	2600	613690
1939	20750	167	342	35270	22240	41950	43860	78430	136	110	173	166	243594
1940	954	1800	115	109	33020	8100	3320	23940	11070	480	11330	2270	96876
1941	990	635	1810	12380	418400	314600	300100	162800	477000	348200	48350	28190	2113455
1942	13420	10630	10040	356300	177600	35790	43580	43960	271500	65940	21450	7740	1057950
1943	31910	1720	478	1270	1050	750	38040	10920	131	268	332	4170	90364
1944	9690	4310	1920	2060	49650	58130	29710	34420	48790	3140	930	10210	252960
1945	8120	2250	324	324	263	3920	2670	39730	5840	10880	343	433	75117
1946	444	471	392	313	28760	8060	1490	17470	69730	120100	5880	2160	255270
1947	2780	788	2240	1280	46190	5940	23910	6260	227	327	361	573	90876
1948	554	6000	6160	491	6460	110900	9470	46100	739	1650	5030	360	193914
1949	926	2830	2270	9510	96320	104000	79460	38930	23320	2280	2700	924	363470
1950	1080	468	754	2550	1220	39060	200700	48360	78220	8270	865	998	382545
1951	1430	2650	1760	879	72160	13250	34610	4550	1820	867	2340	718	137034
1952	772	556	744	3700	1940	1370	16100	33660	3800	616	654	805	64717
1953	1010	561	653	596	577	537	30980	48470	1860	8680	1030	1110	96064
1954	1010	692	768	2880	49040	1990	38170	16460	1810	64930	1070	657	179477
1955	913	779	550	36340	75370	18800	27390	24150	14860	3350	681	767	203950
1956	928	902	912	642	33750	6810	25200	3790	430	441	532	667	75004
1957	564	645	998	7230	46190	39390	13450	104000	12820	19180	2080	1050	247597
1958	2340	2940	9370	8100	62150	48420	169800	64000	68720	2260	1540	2070	441710
1959	2010	2110	599	846	5310	17640	24310	74190	3540	4660	725	25440	161380
1960	8520	7840	4810	946	625	78800	202400	51280	23520	48160	3210	11090	441201
1961	4100	10390	24760	12590	7150	4620	33140	17780	30780	4080	13150	3750	186290
1962	3750	3190	2410	2190	1820	14590	32780	28770	7050	1990	1450	2050	102040
1963	916	1310	1100	684	5630	32000	13610	19500	13440	662	605	761	90218
1964	750	3120	889	491	1450	747	509	2990	27220	732	1160	524	40582
1965	429	388	594	332	21330	195200	14650	24170	13170	42370	11250	2420	326303
1966	666	2830	2090	559	813	10660	8420	26050	6320	593	656	756	60413
1967	1510	858	688	14490	2570	30870	99410	19820	13890	19470	6180	4940	214696
1968	5210	2640	1100	662	11630	7570	14450	16070	1270	3830	988	408	65828
1969	918	2740	3180	184	33130	76870	38950	29910	105400	23900	4670	2970	322822
1970	3400	1320	1790	29710	240	1340	6340	19960	8980	4380	1870	921	82451
1971	1350	1560	750	1650	9620	20950	36950	45220	17150	4340	22140	4070	165750
1972	3910	1890	858	648	5430	8790	81440	56270	61630	17010	3010	1900	242786
1973	2570	2190	8650	14940	1470	389	14420	11940	884	526	557	833	59369

CANADIAN RIVER BASIN

07227500 Canadian River near Amarillo, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	1410	875	5640	287	7170	4260	2520	49770	18960	36500	3650	1940	132982
1975	3720	3660	1820	2830	2450	31670	18450	10100	1300	791	440	333	77564
MAX	31910	26100	24760	356300	418400	314600	300100	173000	477000	348200	48350	28190	2113455
MIN	429	167	115	54.0	283	75.0	509	2990	131	48.0	173	166	40582
MEAN	4393	2989	3040	15866	36316	39469	51379	39883	44068	27419	4739	3376	272137
NO.	40	40	40	40	40	40	40	40	40	40	40	40	40
DISR OF MEAN	1.6%	1.1%	1.1%	5.5%	13.3%	14.5%	18.9%	14.7%	16.2%	10.1%	1.7%	1.2%	100%

CANADIAN RIVER BASIN

07227900 Lake Meredith near Sanford, Texas

LOCATION: Lat 35°42'38", long 101°33'03", Hutchinson County, in the outlet tower near the right end of the dam on the Canadian River, and 1.2 mi (1.9 km) northwest of Sanford.

DRAINAGE AREA: 20,220 mi² (52,370 km²), of which 4,172 mi² (10,805 km²) is probably noncontributing.

PERIOD OF RECORD: November 1964 to December 1975.

GAGE: Waterstage recorder. Datum of gage is at mean sea level. Prior to Aug. 16, 1965, nonrecording gage read daily at same site and datum.

EXTREMES: Period of record (1964-75): Maximum contents, 546,100 ac-ft (673 hm³) Apr. 28, 1973 (elevation, 2,914.91 ft or 898.465 m); minimum contents since the first appreciable storage, 219,900 ac-ft (271 hm³) Apr. 10, 11, 1967 (elevation, 2,863.10 ft or 878.769 m).

REMARKS: The lake is formed by a rolled earthfill dam 6,410 ft (1,954 m) long, with a capacity of 864,400 ac-ft (1,065.8 hm³). The dam was completed and storage began in October 1964. The service spillway is an uncontrolled concrete drop inlet located near the left end of the dam. The spillway discharges into a 22-foot diameter (7-m) conduit that is designed to discharge 18,300 ft³/s (547 m³/s) at an elevation of 3,004.9 ft (915.89 m). The flood-control outlet works consist of three 12-by-15-foot (4-by-5-m) gates that open into three 15.5-foot (4.7-m) concrete conduits. The flood-control works are located just to the left of the service spillway near the left end of the dam. The dam was built by the U.S. Bureau of Reclamation for the Canadian River Municipal Water Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1964	-	-	-	-	-	-	-	-	-	-	3280	4100
1965	4460	4890	5570	5060	17710	157400	162800	176400	181900	210100	214300	214700
1966	216100	219000	218400	215900	211600	214800	216700	228500	231400	227600	225000	223300
1967	222900	222200	220600	228900	225800	259100	312400	320800	322900	320700	319300	320200
1968	324800	326600	325200	322400	329200	326200	325300	328000	317600	312900	306800	300700
1969	296900	294500	294900	288300	305400	354200	369700	376600	463000	468500	464500	459900
1970	457700	454400	450400	469700	461200	450900	438100	445600	438300	430900	424700	417500
1971	412700	410100	403200	396100	391500	391300	400700	416800	416800	413000	445400	445400
1972	442000	438000	431200	420900	420100	430500	472500	503000	542700	539400	538600	536100
1973	534300	531200	536800	545300	537900	525400	520400	510900	498600	487900	478300	470900
1974	466900	460800	458900	447600	442100	429600	413400	438800	431000	451500	447100	441400
1975	438300	437800	433200	427500	419200	436200	453900	445700	430600	418400	410600	404500
MAX	534300	531200	536800	545300	537900	525400	520400	510900	542700	539400	538600	536100
MIN	4460	4890	5570	5060	17710	157400	162800	176400	181900	210100	214300	4100
MEAN	347005	345408	343488	342515	341883	361418	371445	380645	388618	389173	356490	353225
NO.	11	11	11	11	11	11	11	11	11	11	12	12
DISTR												
OF MEAN	8.0%	8.0%	7.9%	7.9%	7.9%	8.4%	8.6%	8.8%	9.0%	9.0%	8.2%	8.2%

CANADIAN RIVER BASIN
07227920 Dixon Creek near Borger, Texas

LOCATION: Lat 36°39'53", long 101°21'02", Hutchinson County, at the bridge on State Highway 152, 2.4 mi (3.9 km) east of Borger, and 7.6 mi (12.2 km) upstream from the mouth.

DRAINAGE AREA: 134 mi² (347 km²).

PERIOD OF RECORD: March 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,834.84 ft (864.059 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1974-75): Maximum discharge, 1,070 ft³/s (303 m³/s) July 23, 1975 (gage height, 6.85 ft or 2.027 m); no flow for many days.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	~	~	6.30	1.40	23.0	1.40	0	14.0	0	.20	2.40	.80	~
1975	.60	.50	9.4	5.10	87.0	157	677	184	0	0	.30	.20	1121
MAX	.60	.50	9.4	5.10	87.0	157	677	184	0	.20	2.40	.80	1121
MIN	.60	.50	6.30	1.40	23.0	1.40	0	14.0	0	0	.30	.20	1121
MEAN	.60	.50	7.85	3.25	55.0	79.2	339	99.0	0	.10	1.35	.50	586
NO.	1	1	2	2	2	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	.13	.12	1.32	.62	9.42	13.52	57.72	16.92	.02	.02	.22	.12	1002

CANADIAN RIVER BASIN

07228000 Canadian River near Canadian, Texas

LOCATION: Lat 36°56'06", 100°22'13", Hemphill County, at the bridge on U.S. Highways 60 and 89, 500 ft (150 m) downstream from the Panhandle and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) downstream from Red Deer Creek, and 1.6 mi (2.6 km) northeast of Canadian.

DRAINAGE AREA: 22,866 mi² (59,222 km²), of which 4,688 mi² (12,142 km²) is probably noncontributing.

PERIOD OF RECORD: January 1938 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,301.50 ft (701.497 m) above mean sea level, datum of 1929. July 1, 1924 to Aug. 31, 1925 and Apr. 21 to Dec. 15, 1938, nonrecording gage; Dec. 16, 1938 to Sept. 30, 1953, water-stage recorder and nonrecording gages; all at site 300 ft (91 m) upstream at same datum.

AVERAGE DISCHARGE: 38 years, 306,459 ac-ft/yr (377.9 hm³/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 122,000 ft³/s (3,460 m³/s) Sept. 23, 1941 (gage height, 9.8 ft or 2.98 m, from a graph based on gage readings); no flow at times most years.

Maximum stage, 20.0 ft (6.10 m) Oct. 2, 1904.

REMARKS: Records good. The extreme low flow is maintained by springs which enter the river about 600 ft (180 m) above the gage. There is some regulation and diversions from Lake Meredith located 75 mi (121 km) upstream since 1964.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	1000	2000	3000	20000	37830	239000	97000	6970	177500	125900	774	3400	714374
1939	26650	4110	2460	60530	26560	134000	31140	122000	320	890	109	920	407772
1940	601	11690	459	179	11790	11530	1050	14620	8600	750	17080	6290	84004
1941	6470	11880	13550	20640	502000	534100	376200	216700	440300	628000	83110	40120	2873070
1942	27840	17660	27780	355700	237700	120300	33220	28820	278500	90790	20020	8350	1246680
1943	33240	5110	3510	1940	9550	799	22200	2870	390	740	750	5310	84717
1944	23570	10400	3080	3650	51580	58980	37190	15610	50390	8380	1740	32630	297200
1945	23550	6130	4870	1610	401	1010	8.30	36030	1260	12660	610	495	88085
1946	3190	1840	108	770	33000	18180	400	18100	104800	257000	6550	11950	455235
1947	18180	2310	15430	15410	66010	11600	17540	111	290	460	223	286	147175
1948	1070	8770	17790	144	1990	156400	5810	72930	1060	760	8160	844	275044
1949	1170	7720	3200	6470	227600	149600	59090	35200	16090	3540	690	1820	512190
1950	4550	3070	142	240	4740	28690	236600	78010	110400	4530	1080	7460	479512
1951	11040	15750	6460	2100	191800	69400	46970	1950	6650	2140	8800	3140	366200
1952	3700	1710	1210	1180	930	210	2100	20060	2200	100	117	2220	34711
1953	9360	2650	1640	900	345	7220	55500	63220	470	26780	4260	2180	173292
1954	10550	6760	4440	7920	78070	189	24790	11990	241	38470	247	311	183978
1955	2450	1940	173	241	173100	58960	28110	15400	8640	2140	187	218	291559
1956	1040	4310	345	160	53980	24870	12130	653	210	650	122	133	97829
1957	940	1910	8470	23150	127800	40190	13640	93140	14260	14310	6220	2860	346249
1958	8570	5890	15920	10460	54370	58240	268000	68370	68280	226	898	2000	561224
1959	3310	1570	342	2060	22280	8660	32730	60950	4860	2510	1470	42660	183602
1960	29750	21850	7420	1060	137	125700	225100	108500	28600	80980	4340	9540	642977
1961	4490	6810	36370	11780	6580	27710	28190	10820	17990	2050	14030	19380	186000
1962	11440	6920	1200	5520	280	6680	19310	60390	3380	862	1150	4150	121030
1963	2260	5480	1640	243	1130	13970	1480	5270	10600	440	690	457	42643
1964	1850	9340	1070	680	1340	10530	9.7	200	266	138	4270	5820	34704
1965	3410	2850	5150	460	7110	62730	179	5510	1650	2600	1370	3000	96019
1966	2270	4770	1560	916	850	200	3620	1640	5260	880	296	1370	21895
1967	3680	2230	1410	2150	13480	6110	10240	1610	1320	294	819	2760	46103
1968	5070	3650	3740	232	8620	22700	2260	1690	183	26170	2080	2800	79195
1969	5230	6450	10030	2120	33810	13350	753	2670	7600	1930	2540	4710	91193
1970	3130	3080	5110	4870	409	178	1.20	500	15650	723	1470	2910	37736
1971	3370	5430	3650	1250	213	12910	5990	2230	9400	17050	50450	30120	142063
1972	17980	8410	2660	1120	3180	1420	828	3230	1170	217	1900	1990	44105
1973	2260	4340	29100	33050	4230	500	1140	141	710	128	662	1790	77412
1974	2360	3310	20090	2530	1050	993	200	723	328	1570	2340	2080	37394
1975	5150	6360	4290	3850	6210	3620	4920	2890	430	210	1470	2440	41264
MAX	33240	21850	36370	355700	502000	534100	376200	216700	440300	628000	83110	42660	2873070
MIN	940	1570	108	680	280	200	1.20	200	210	210	610	920	21895
MEAN	8580	6223	7076	15926	52647	53717	44876	31343	36788	35599	6612	7102	306459
NO.	38	38	38	38	38	38	38	38	38	38	38	38	38
DISTR OF MEAN	2.8%	2.0%	2.3%	5.2%	17.2%	17.5%	14.6%	10.2%	12.0%	11.6%	2.2%	2.3%	100%

CANADIAN RIVER BASIN
07233500 Palo Duro Creek near Spearman, Texas

LOCATION: Lat 36°12'08", long 101°18'20", Hansford County, at the bridge on State Highway 15, 6 mi (10 km) west of Spearman, and 18 mi (29 km) upstream from Horse Creek.

DRAINAGE AREA: 960 mi² (2,490 km²), of which 520 mi² (1,350 km²) is probably noncontributing.

PERIOD OF RECORD: August 1945 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,981.63 ft (902.705 m) above mean sea level, datum of 1929. May 8, 1968 to Dec. 4, 1969, at site 5 mi (8 km) downstream at different datum.

AVERAGE DISCHARGE: 31 years, 14,462 ac-ft/yr (17.8 hm³/yr).

EXTREMES: Period of record (1945-75): Maximum discharge, 21,200 ft³/s (600 m³/s) Oct. 7, 1948 (gage height, 19.87 ft or 6.056 m); no flow at times most years.

Maximum stage since 1936, 22.5 ft (6.86 m) Sept. 4, 1938, from floodmark (discharge, about 34,000 ft³/s or 963 m³/s).

REMARKS: Records good. There is a small diversion above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1945	-	-	-	-	-	-	-	349	2460	625	30.0	42.0	-
1946	61.0	38.0	43.0	30.5	207	180	650	358	3470	51360	359	194	56951
1947	184	129	117	146	268	2500	210	13.0	0	281	5.40	12.0	3865
1948	8.50	18.0	27.0	25.0	181	177	378	837	19.0	1.60	431	25.0	2128
1949	18.0	23.0	38.0	50.0	3950	333	229	303	15.0	257	43.0	55.0	5314
1950	31.0	41.0	53.0	46.0	47.0	1150	6400	5640	7240	333	144	155	21280
1951	154	146	121	127	21440	554	166	64.0	20.0	19.0	58.0	54.0	22923
1952	52.0	66.0	61.0	3640	93.0	18.0	35.0	924	2.60	0	3.60	34.0	4929
1953	26.0	23.0	49.0	17.0	16.0	893	11570	343	33.0	516	71.0	55.0	13612
1954	45.0	30.0	30.0	58.0	119	9330	1310	934	25.0	4510	113	129	16633
1955	130	70.0	49.0	6300	12370	326	1510	2320	32.0	3.20	0	0	23110
1956	15.0	55.0	92.0	11.0	612	260	1170	1590	0	4.40	15.0	27.0	3851
1957	38.0	25.0	87.0	2540	5880	1010	1200	844	52.0	20.0	59.0	44.0	11799
1958	58.0	64.0	57.0	221	7.10	533	9350	1150	212	36.0	61.0	108	11857
1959	165	64.0	73.0	70.0	301	3380	472	57.0	41.0	42.0	42.0	92	5227
1960	77.0	76.0	52.0	15.0	39.0	1290	972	156	11160	9100	223	153	23313
1961	123	77.0	114	20.0	495	883	3990	106	92.0	38.0	132	98.0	6168
1962	61.0	33.0	35.0	38.0	74.0	212	696	670	187	3.40	36.0	55.0	2300
1963	39.0	38.0	5.20	5.20	1190	2630	1320	261	4730	116	61.0	49.0	10444
1964	64.0	200	26.0	36.0	18.0	495	24.0	0	0	0	0	0	863
1965	0	0	0	0	8830	52310	1280	2410	274	1280	100	121	66605
1966	15.0	21.0	66.0	36.0	13.0	2090	74.0	120	559	17.0	21.0	21.0	3719
1967	19.0	20.0	101	568	47.0	9770	6340	3210	255	99.0	178	49.0	20656
1968	50.0	37.0	41.0	34.0	1310	1670	2530	4490	465	14170	314	115	25226
1969	14.0	3.80	25.0	6.60	377	113	190	2300	5230	39.0	3.70	40.0	8342
1970	9.7	10.0	28.0	855	11.0	2420	729	676	62.0	157	150	72.0	5180
1971	27.0	13.0	53.0	80.0	795	7740	3800	850	823	271	12670	198	27320
1972	37.0	23.0	14.0	510	1260	2640	3300	1690	484	193	65.0	20.0	10236
1973	16.0	47.0	2250	1310	1280	16.0	224	604	621	102	251	47.0	6768
1974	.06	.10	329	230	57.0	585	0	1100	0	67.0	90.0	0	2458
1975	0	0	0	32.0	2830	661	6340	2510	269	143	179	63.0	13027
MAX	184	200	2250	6300	21440	52310	11570	5640	11160	51360	12670	492	66605
MIN	0	0	0	0	7.10	16.0	0	0	0	0	0	0	863
MEAN	51.2	46.4	135	569	2130	3436	2341	1203	1253	2703	513	81.5	14462
NO.	30	30	30	30	30	30	30	31	31	31	31	31	30
DISTR OF MEAN	.4%	.3%	.9%	3.9%	14.7%	23.8%	16.2%	8.3%	8.7%	18.7%	3.5%	.6%	100%

CANADIAN RIVER BASIN
07235000 Wolf Creek at Lipscomb, Texas

LOCATION: Lat 36°14'16", long 100°16'50". Lipscomb County, at the bridge on State Highway 305, 0.3 mi (0.5 km) north of Lipscomb, 0.7 mi (1.1 km) downstream from Little Sandy Creek, and 2 mi (3 km) upstream from Plum Creek.

DRAINAGE AREA: 697 mi² (1,805 km²), of which 222 mi² (575 km²) is probably noncontributing.

PERIOD OF RECORD: October 1937 to September 1942, October 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,371.29 ft (722.769 m) above mean sea level, datum of 1929. Prior to Feb. 25, 1938, nonrecording gage, Feb. 25, 1938 to Sept. 30, 1942, water-stage recorder at present site at datum 5.77 ft (1.769 m) higher.

AVERAGE DISCHARGE: 21 years (1937-42, 1961-75), 14,339 ac-ft/yr (17.7 hm³/yr).

EXTREMES: Period of record (1937-42, 1961-75): Maximum discharge, 20,000 ft³/s (566 m³/s) Oct. 21, 1941 (gage height, 11.57 ft or 3.527 m, present datum); no flow at times.

Maximum stage since 1890, 15.5 ft (4.72 m) June 23, 1957, present site and datum, from floodmarks.

REMARKS: Records fair. There are small diversions upstream from the station for irrigation and recreation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1937	-	-	-	-	-	-	-	-	-	922	119	246	-
1938	321	385	232	1860	7660	9900	2040	240	5480	0	0	30.0	28148
1939	254	95.0	1700	5630	424	14240	3520	2700	0	0	0	0	28563
1940	4.00	254	46.0	32.0	613	6360	16.0	3380	2040	0	103	147	12995
1941	230	567	436	1680	8370	7180	3200	3170	1290	31370	2360	1220	61073
1942	787	748	680	1280	2010	3230	464	1410	982	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	184	223	223	-
1962	366	436	386	330	70.0	1450	267	640	830	128	159	204	5266
1963	108	607	367	214	5820	5520	408	190	3680	78.0	141	258	17391
1964	391	483	286	130	116	804	26.0	0	25.0	6.10	226	535	3028
1965	426	316	400	341	1080	12270	1030	4770	667	501	299	417	22517
1966	343	554	402	367	186	44.0	1060	251	209	31.0	123	189	3759
1967	110	237	274	334	193	1130	5090	2970	227	110	233	336	11244
1968	374	301	325	332	565	560	609	3000	180	10270	926	597	18039
1969	724	578	694	573	521	325	40.0	1040	1030	257	249	292	6323
1970	369	321	380	464	140	1810	97.0	330	3640	304	311	429	6595
1971	389	313	485	306	253	1850	123	89.0	42.0	671	6690	754	11965
1972	458	401	433	334	1980	530	204	372	258	34.0	181	283	5468
1973	302	345	1750	3100	956	477	137	40.0	77.0	94.0	129	228	7635
1974	286	278	3260	442	186	85.0	19.0	1550	263	118	141	99.0	6727
1975	138	209	264	252	1400	216	127	636	30.0	28.0	49.0	64.0	3413
MAX	787	748	3260	5630	8370	14240	5090	4770	5480	31370	6690	1220	61073
MIN	4.00	95.0	46.0	32.0	70.0	44.0	16.0	0	0	0	0	0	3028
MEAN	336	391	674	947	1713	3578	972	1409	1103	2255	633	328	14339
NO.	19	19	19	19	19	19	19	19	19	20	20	20	18
DISTR OF MEAN	2.3%	2.7%	4.7%	6.6%	11.9%	25.0%	6.8%	9.8%	7.7%	15.7%	4.4%	2.3%	100%

RED RIVER BASIN

07295500 Tierra Blanca Creek above Buffalo Lake near Umbarger, Texas

LOCATION: Lat 34°50'55", long 102°10'32", Deaf Smith County, 8.4 mi (13.6 km) southwest of Umbarger, and 9 mi (14.5 km) upstream from Buffalo Lake Dam.

DRAINAGE AREA: 1,868 mi² (4,887 km²), of which 1,430 mi² (3,704 km²) is probably noncontributing.

PERIOD OF RECORD: December 1939 to September 1954 published as "at Reservoir near Umbarger", April 1967 to September 1973.

GAGE: Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 3,650 ft (1,110 m), datum of 1929. Prior to Aug. 29, 1940, water-stage recorder or nonrecording gage at the conduit tower at different datum.

AVERAGE DISCHARGE: 23 years (1939-54, 1967-73), 7,282 ac-ft/yr (9.0 hm³/yr).

EXTREMES: Period of record (1939-54, 1967-73): Maximum discharge, 11,300 ft³/s (320 m³/s) June 6, 1941, computed by the rate of change in contents and outflow from the lake; no flow at times each year.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	-	-	-	53.0	-
1940	104	84.0	62.0	60.0	36.0	2.80	-	-	-	0	3.80	0	-
1941	7.70	19.0	56.0	35.0	23750	26060	476	240	647	15170	871	407	67739
1942	246	222	292	641	183	148	31.0	537	926	815	131	493	4663
1943	181	142	144	189	207	60.0	685	1.40	0	0	12.0	83.0	1724
1944	106	89.0	82.0	67.0	58.0	1170	62.0	62.0	24.0	17.0	32.0	72.0	1841
1945	88.0	90.0	85.0	71.0	27.0	0	0	2360	19.0	76.0	44.0	72.0	2932
1946	120	75.0	71.0	46.0	17.0	0	0	0	496	4090	137	127	5179
1947	149	109	142	102	2930	249	10.0	1.00	0	0	0	29.0	3721
1948	39.0	80.0	70.0	28.0	35.0	102	0	33.0	61.0	0	.40	13.0	461
1949	36.0	59.0	51.0	82.0	99.0	136.0	336	62.0	48.0	54.0	70.0	96.0	12214
1950	94.0	94.0	85.0	73.0	21.0	135	4330	413	1380	311	132	134	7202
1951	138	164	120	92.0	11730	751	155	25.0	11.0	27.0	52.0	80.0	13345
1952	95.0	98.0	83.0	151	83.0	61.0	595	.60	0	0	22.0	60.0	1249
1953	63.0	49.0	59.0	1220	26.0	.40	0	175	34.0	5520	92.0	61.0	7299
1954	67.0	56.0	44.0	44.0	1820	6450	354	29.0	.80	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	666	23.0	2870	957	314	73.0	49.0	40.0	45.0	-
1968	55.0	44.0	53.0	37.0	33.0	66.0	447	3.40	5.90	0	.20	49.0	793
1969	17.0	9.3	7.60	3.10	3210	825	22.0	.60	104	45.0	70.0	8.50	4322
1970	30.0	7.90	11.0	15.0	.50	0	51.0	0	0	0	0	0	115
1971	0	0	.30	0	7.10	2.10	0	1350	4150	99.0	342	80.0	6030
1972	52.0	27.0	14.0	5.00	19.0	297	78.0	154	10.0	0	0	22.0	678
1973	16.0	3.80	138	3.80	0	0	10.0	0	0	-	-	-	-
MAX	246	222	292	1220	23750	26060	4330	2360	4150	15170	871	493	67739
MIN	0	0	.30	0	0	0	0	0	0	0	0	0	115
MEAN	81.1	72.5	79.5	165	2462	1847	409	274	380	1314	103	94.5	7282
NO.	21	21	21	22	22	22	21	21	21	20	20	21	18
DISTR OF MEAN	1.1%	1.0%	1.1%	2.3%	33.8%	25.4%	5.6%	3.8%	5.2%	18.0%	1.4%	1.3%	100%

RED RIVER BASIN

07296000 Buffalo Lake near Umbarger, Texas

LOCATION: Lat 34°55'28", long 102°05'01", Randall County, on the intake structure 100 ft (30 m) upstream, 200 ft (61 m) to the right of the left end of the dam on Tierra Blanca Creek, 2 mi (3.2 km) south of Umbarger, and 20 mi (32.2 km) upstream from Palo Duro Creek.

DRAINAGE AREA: 2,075 mi² (5,374 km²), of which 1,600 mi² (4,185 km²) is probably noncontributing.

PERIOD OF RECORD: June 1938 to September 1963, March 1967 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 3,515.6 ft (1,071.6 m) above mean sea level, datum of 1929. Prior to Aug. 29, 1940, nonrecording gage at same site and datum.

EXTREMES: Period of record (1938-54, 1967-73): Maximum contents, 25,100 ac-ft (30.8 hm³) June 6, 1941, gage height, 130.43 ft (39.76 m); the lake was dry Mar. 26 to July 22, 1971.

REMARKS: The lake is formed by a rolled-fill earthen dam 882 ft (269 m) long, with an uncontrolled concrete service spillway at the right end, 200 ft (61 m) long, with the crest at gage height 127.0 ft (38.7 m). The capacity of the lake is 18,150 ac-ft (22.4 hm³). Storage began on June 9, 1938 and the dam was completed on June 15, 1938. The outlet works consist of a 4- by 5-foot (1.2- by 1.5-m) concrete conduit controlled by a gate in the control tower. The dam is operated by the U.S. Department of Interior, Fish and Wildlife Service.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1938	-	-	-	-	-	600	574	354	240	3080	2810	2650
1939	3530	3350	3170	3170	2810	2140	1460	1290	920	776	656	628
1940	656	628	548	452	354	282	178	134	105	93.0	92.0	92.0
1941	88.0	86.0	86.0	81.0	20300	18530	17600	16670	16120	18820	17980	17670
1942	17600	17260	16880	16760	15800	14700	13610	13370	13280	13560	13060	13060
1943	12740	12280	11660	11200	10590	9560	9700	8580	7600	6920	6440	6680
1944	6680	6560	6080	5640	5340	5540	5140	4460	4360	4080	3980	3980
1945	3890	3800	3350	3170	2650	2140	1620	3350	2820	2650	2400	2220
1946	2310	2060	1760	1390	1000	884	600	496	776	4940	4650	4650
1947	4560	4460	4360	4180	7180	6800	5840	4940	4180	3530	3350	3260
1948	3170	3170	2990	2400	2140	1920	1390	1340	1090	920	884	812
1949	848	848	776	712	10140	11820	11040	9990	9560	9000	8580	8440
1950	8160	7740	6920	6320	5740	5040	9700	9420	10440	9840	9420	9140
1951	9000	9000	8440	7880	18150	17780	16670	15250	14220	13560	13230	13060
1952	12900	12440	11820	11500	10740	9840	9280	8160	7180	6560	6200	6080
1953	5840	5640	5240	5960	5340	4270	3620	3890	3440	8020	7600	7320
1954	7180	6800	6320	5840	7040	14220	13060	12120	11040	-	-	-
1967	-	-	5160	5160	4540	6440	6790	6250	5840	5230	5040	4960
1968	5040	4950	4730	4270	4010	3590	3410	2960	2510	2260	2120	2020
1969	1790	1630	1490	1310	2840	2930	2310	1680	1920	1840	1760	1690
1970	1650	1480	1340	1160	920	726	543	391	300	255	216	180
1971	134	120	0	0	0	0	15.0	420	2450	2280	2450	2460
1972	2340	2150	1800	1420	1250	1240	1050	848	701	620	602	599
1973	564	614	659	611	515	362	324	233	180	-	-	-
MAX	17600	17260	16880	16760	20300	18530	17600	16670	16120	18820	17980	17670
MIN	88.0	86.0	0	0	0	0	15.0	134	105	93.0	92.0	92.0
MEAN	5030	4867	4590	4373	6060	5890	5647	5275	5053	5402	5160	5075
NO.	22	22	23	23	23	24	24	24	24	22	22	22
DISTR												
OF MEAN	8.1%	7.8%	7.4%	7.0%	9.7%	9.4%	9.0%	8.5%	8.1%	8.7%	8.3%	8.1%

RED RIVER BASIN

07296100 Tierra Blanca Creek below Buffalo Lake near Umbarger, Texas

LOCATION: Lat 34°55'27", long 102°05'57", Randall County, 25 ft (8 m) downstream from Buffalo Lake Dam on Tierra Blanca Creek, 2 mi (3.2 km) south of Umbarger, and 20 mi (32.2 km) upstream from Palo Duro Creek.

DRAINAGE AREA: 2,075 mi² (5,374 km²), of which 1,500 mi² (3,885 km²) is probably noncontributing. All drainage area is above Buffalo Lake Dam.

PERIOD OF RECORD: March 1967 to September 1973.

GAGE: Water-stage recorder and Parshall flume. Datum of gage is 3,812.42 ft (1,101.07 m) above mean sea level, datum of 1929. Prior to Mar. 28, 1973, metal H Weir at same site and at a datum 0.92 ft (0.28 m) lower.

AVERAGE DISCHARGE: 7 years, 44 ac-ft/yr (0.05 km³/yr).

EXTREMES: Period of record (1967-73): Maximum discharge, 14 ft³/s (0.40 m³/s) Mar. 24, 1971; maximum gage height, 2.45 ft (0.75 m) Aug. 17, 1971 (backwater from a dam downstream); no flow at times.

REMARKS: Records poor. The flow is regulated by Buffalo Lake, capacity 18,150 ac-ft (22.4 km³), located 25 ft (8 m) upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	.80	1.00	1.40	.60	1.40	.90	147	1.40	1.00	-
1968	.60	.30	.80	.30	1.40	2.90	1.70	1.50	1.20	1.20	.70	1.10	13.7
1969	1.10	.60	.80	24.0	1.50	1.10	.90	.50	.60	.50	.30	.60	32.0
1970	.60	.60	.60	.60	.50	.20	.10	.40	.06	.20	.60	.70	5.16
1971	.60	.70	49.0	0	.30	.70	0	.60	1.70	1.00	1.00	1.00	56.6
1972	0	0	1.00	1.00	0	1.00	0	1.00	1.00	.60	.20	0	5.80
1973	0	0	0	0	0	0	0	0	0	-	-	-	-
MAX	1.10	.70	49.0	24.0	1.50	2.90	1.70	1.50	1.70	147	1.40	1.10	56.6
MIN	0	0	0	0	0	0	0	0	0	.20	.20	0	5.16
MEAN	.48	.37	8.70	3.81	.67	1.04	.40	.77	.78	25.1	.70	.73	44.0
NO.	6	6	6	7	7	7	7	7	7	6	6	6	5
DISTR OF MEAN	1.1%	.8%	20.0%	8.8%	1.5%	2.4%	.9%	1.8%	1.8%	57.6%	1.6%	1.7%	100%

RED RIVER BASIN

07297000 Palo Duro Creek at Amarillo City Lake near Canyon, Texas

LOCATION: Lat 35°02', long 102°02', Randall County, at the conduit tower in Amarillo City Lake, 200 ft (60.96 m) upstream from the dam, 0.4 mi (0.6 km) upstream from Nigger Arroyo, and 8 mi (8.6 km) northwest of Canyon.

DRAINAGE AREA: 982 mi² (2,543.4 km²), of which 920 mi² (2,382.8 km²) is probably noncontributing.

PERIOD OF RECORD: August 1942 to December 1954. Formerly published as "Palo Duro Creek near Canyon".

GAGE: Staff gage. Datum of gage is 9,584.42 ft (1,092.5 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 2,666 ac-ft/yr (3.3 hm³/yr).

EXTREMES: Period of record (1942-54): Maximum gage height, 53.6 ft (16.34 m) May 17, 1951; lake dry at times.

Highest stage known occurred June 5-7, 1937 when the lake reached a stage of about 54.5 ft (16.61 m) according to the City of Amarillo Water Department.

REMARKS: Records poor. Below gage height 50.3 ft (15.33 m), the discharge is estimated on the basis of monthly measurements of small spring flow into the lake, except for periods of rising stages when the inflow was computed on the basis of the change in lake contents. Above gage height 50.3 ft (15.33 m), the discharge is determined by algebraic summation of the flow over the spillway and the change in contents of the lake. There is no adjustment for evaporation or seepage losses. The lake provides recharge to the sands and gravels of the underlying Ogallala formation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1942	-	-	-	-	-	-	-	53.0	80.0	137	88.0	74.0	-
1943	66.0	72.0	101	95.0	81.0	60.0	255	52.0	44.0	61.0	89.0	96.0	1072
1944	86.0	72.0	68.0	45.0	32.0	51.0	138	55.0	54.0	80.0	83.0	92.0	856
1945	96.0	75.0	67.0	50.0	43.0	24.0	6.00	417	6.90	10.0	12.0	6.10	813
1946	6.10	11.0	18.0	24.0	17.0	6.00	0	0	8.10	2690	89.0	71.0	2940
1947	46.0	44.0	49.0	32.0	125	0	0	0	0	0	6.00	12.0	314
1948	24.0	66.0	58.0	18.0	12.0	12.0	41.0	1220	534	12.0	18.0	35.0	2050
1949	49.0	44.0	55.0	100	820	407	109	95.0	24.0	22.0	56.0	85.0	1866
1950	69.0	43.0	38.0	36.0	40.0	119	3750	314	440	84.0	54.0	55.0	5042
1951	55.0	56.0	52.0	48.0	10460	438	138	37.0	621	37.0	222	97.0	12261
1952	55.0	46.0	49.0	58.0	147	17.0	12.0	6.10	1.00	21.0	51.0	53.0	516
1953	31.0	33.0	43.0	37.0	30.0	18.0	401	787	24.0	1910	52.0	61.0	3427
1954	69.0	49.0	49.0	143	765	138	18.0	7.30	2.40	5.80	16.0	25.0	1287
MAX	96.0	75.0	101	143	10460	438	3750	1220	621	2690	222	97.0	12261
MIN	6.10	11.0	18.0	18.0	12.0	0	0	0	0	0	6.00	6.10	314
MEAN	54.3	50.9	53.9	57.2	1048	108	406	234	141	390	64.3	58.6	2666
NO.	12	12	12	12	12	12	12	13	13	13	13	13	12
DISTR OF MEAN	2.0%	1.9%	2.0%	2.1%	39.3%	4.0%	15.2%	8.8%	5.3%	14.6%	2.4%	2.2%	100%

RED RIVER BASIN

07297500 Prairie Dog Town Fork Red River near Canyon, Texas

LOCATION: Lat 36°01', long 101°54'. Randall County, 1.2 mi (0.31 km) downstream from the confluence of Palo Duro and Tierra Blanca Creeks, 2 mi (0.61 km) upstream from Palo Duro Club Dam, and 3.5 mi (1.07 km) northeast of Canyon.

DRAINAGE AREA: 3,369 mi² (8,725 km²), of which 2,658 mi² (6,894 km²) is probably noncontributing.

PERIOD OF RECORD: February 1924 to September 1926, May 1938 to September 1949.

GAGE: Water-stage recorder. Datum of gage is 3,456 ft (1,053 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years (1924-26, 1938-49), 8,083 ac-ft/yr (10.0 hm³/yr).

EXTREMES: Period of record (1924-26, 1938-49): Maximum discharge, 6,650 ft³/s (188.3 m³/s) October 24, 1941 (gage height, 12.03 ft or 3.67 m, site then in use, from floodmark); no flow at times.

Highest known flood prior to reconstruction of Palo Duro Club Dam (May 1941) occurred May 30, 1937 when the river reached a stage of 9.7 ft (2.96 m), from floodmarks at site 0.3 mi (1.3 km) downstream.

REMARKS: Records fair. The flow is partly regulated by a dam on Tierra Blanca Creek near Umbarger located 20 mi (32.2 km) upstream (capacity, 18,150 ac-ft or 22,379 hm³) and Amarillo City Lake on Palo Duro Creek located 13 mi (20.9 km) upstream (capacity, 3,200 ac-ft or 3.95 hm³). The major portion of the floodflow originating above these reservoirs ordinarily will be retained in them.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	924	1090	664	557	238	2290	411	138	240	330	640	-
1925	301	360	235	308	180	745	1260	1900	1880	845	344	267	8625
1926	243	179	172	167	1600	1820	490	150	0	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	2640	161	140	240	0	119	0	0	-
1939	650	0	0	258	0	1250	670	188	0	0	0	0	1768
1940	0	0	0	0	1020	0	0	0	0	0	0	0	1020
1941	0	0	0	0	1880	31930	2370	170	710	26560	2860	506	66283
1942	491	348	409	537	286	320	350	0	0	577	136	161	3012
1943	166	148	173	159	510	630	1640	60	0	0	0	140	2345
1944	930	660	780	380	200	103	1290	310	100	0	20	890	1720
1945	190	320	180	220	340	0	0	112	0	0	0	0	206
1946	0	0	0	0	0	0	0	0	0	5200	800	130	5293
1947	110	220	91	280	3440	770	0	0	0	0	0	0	3567
1948	0	0	0	0	0	0	0	236	260	150	762	500	1278
1949	120	140	104	390	2990	2420	200	230	282	-	-	-	-
MAX	491	924	1090	664	3440	31930	2370	1900	1880	26560	2860	506	66283
MIN	0	0	0	0	0	0	0	0	0	0	0	0	206
MEAN	108	148	163	159	977	2585	597	206	172	2565	324	78.9	8083
NO.	13	14	14	14	15	15	15	15	15	13	13	13	11
DISTR OF MEAN	1.3%	1.8%	2.0%	2.0%	12.1%	32.0%	7.4%	2.5%	2.1%	31.7%	4.0%	1.0%	100%

RED RIVER BASIN

07297910 Prairie Dog Town Fork Red River near Wayside, Texas

LOCATION: Lat 34°50'15", long 101°24'49", Armstrong County, at the bridge on Farm Road 284, 13 mi (21 km) northeast of Wayside, and 26 mi (42 km) south of Claude.

DRAINAGE AREA: 4,211 mi² (10,806 km²), of which 3,281 mi² (8,498 km²) is probably noncontributing.

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,463.74 ft (750.946 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 24,603 ac-ft/yr (30.3 hm³/yr).

EXTREMES: Period of record (1967-74): Maximum discharge, 58,000 ft³/s (1,640 m³/s) Aug. 28, 1968 (gage height, 13.0 ft or 3.96 m, from floodmark); no flow at times.

REMARKS: Records fair. There are several small diversions above the station. The flow is partly regulated by Buffalo Lake, Amarillo City Lake, Palo Duro Lake, and Lake Tanglewood, having a combined capacity of 28,600 ac-ft (36.3 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	923	53.0	104	-
1968	639	136	101	222	2620	3260	2860	86720	1640	1320	737	271	100526
1969	200	172	559	88.0	3620	1500	3060	3700	6550	1730	858	162	22199
1970	199	126	202	667	1240	86.0	.40	329	2.10	3.50	4.00	6.10	2865
1971	18.0	35.0	21.0	22.0	119	647	117	3250	2550	5900	3090	439	16208
1972	145	92.0	58.0	44.0	3640	5260	1230	186	61.0	363	433	105	11617
1973	147	80.0	924	1370	3250	870	1220	190	395	109	19.0	26.0	8600
1974	20.0	28.0	192	15.0	3040	2960	.02	14550	1860	3080	356	154	26255
1975	78.0	203	107	209	1100	2760	4780	450	0	0	8.80	16.0	9712
MAX	639	203	924	1370	3640	5260	4780	86720	6550	5900	3090	439	100526
MIN	18.0	28.0	21.0	15.0	119	86.0	.02	186	0	0	4.00	6.10	2865
MEAN	181	109	271	330	2329	2168	1658	13672	1632	1492	618	143	24603
NO. OF MEAN	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR OF MEAN	.7%	.4%	1.1%	1.3%	9.5%	8.8%	6.7%	55.6%	6.6%	6.1%	2.5%	.6%	100%

RED RIVER BASIN

07298000 North Tule Draw at Reservoir near Tulia, Texas

LOCATION: Lat 34°33'34", long 101°42'33", Swisher County, at the upstream side of the dam, 280 ft (76 m) to the left of the concrete spillway, 1.0 mi (1.6 km) upstream from the mouth, and 3.2 mi (5.1 km) northeast of Tulia.

DRAINAGE AREA: 189 mi² (490 km²), of which 124 mi² (321 km²) is probably noncontributing.

PERIOD OF RECORD: May 1938 to June 1940, December 1940 to September 1973. Prior to October 1950, published as "North Tule Creek at Reservoir near Tulia".

GAGE: Water-stage recorder. Datum of gage is 3,309 ft (1,009 m) above mean sea level, datum of 1629. Prior to Nov. 27, 1940, nonrecording gage at present datum.

AVERAGE DISCHARGE: 35 years, 2,272 ac-ft/yr (2.8 hm³/yr).

EXTREMES: Period of record (1938-73): Maximum discharge, 10,600 ft³/s (300 m³/s) June 10, 1965; maximum gage height, 98.62 ft (30.06 m) June 11, 1965; no flow at times most years.

REMARKS: Records poor. The records given herein represent the flow into the reservoir.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	54.0	186	16.0	12.0	0	3.00	0	.40	-
1940	1.80	4.40	0	40.0	2.80	0	-	-	-	-	-	0	-
1941	0	.60	6.70	2.40	501	1580	117	25.0	17.0	3860	30.0	32.0	6172
1942	31.0	30.0	33.0	36.0	18.0	19.0	21.0	32.0	397	645	12.0	23.0	1297
1943	12.0	11.0	12.0	19.0	20.0	26.0	1350	0	4.80	0	4.40	14.0	1475
1944	15.0	15.0	12.0	25.0	27.0	27.0	22.0	2.00	12.0	13.0	22.0	18.0	210
1945	23.0	17.0	18.0	20.0	5.60	1.60	15.0	25.0	7.30	1.80	0	1.20	135
1946	7.10	.40	24.0	6.00	1.20	167	3.00	58.0	91.0	3930	24.0	53.0	4365
1947	19.0	12.0	9.3	16.0	43.0	4.60	2.60	0	0	0	5.60	1.60	114
1948	2.20	12.0	5.40	.40	9.3	2.00	.80	53.0	15.0	0	23.0	1.60	125
1949	6.10	15.0	.80	856	1440	611	85.0	4.80	4.60	1.20	1.60	3.40	3029
1950	4.60	2.60	2.00	1.60	28.0	135	265	73.0	105	0	0	2.00	619
1951	2.40	7.70	.40	2.80	8680	10.0	2.80	3.00	0	4.60	6.50	6.10	8726
1952	1.20	0	0	9.5	1.80	.40	42.0	0	0	0	0	0	54.9
1953	0	.60	1.40	290	1.40	34.0	0	2.00	0	84.0	0	0	413
1954	0	0	0	31.0	1030	3330	9.1	9.1	3.40	0	0	0	4413
1955	0	0	0	0	511	1240	7.30	0	25.0	8.10	0	0	1791
1956	0	0	0	0	27.0	5.80	0	0	0	0	0	0	32.8
1957	0	0	0	15.0	167	1390	252	780	8.90	46.0	0	0	2579
1958	0	0	0	6.10	6.00	0	40.0	102	5.20	0	0	0	159
1959	0	0	0	7.10	12.0	232	416	4.00	9.1	60.0	0	87.0	827
1960	4.60	4.80	2.60	3.00	2.40	1860	3960	12.0	107	4500	0	1.80	10458
1961	0	.60	14.0	.60	.80	117	145	6.50	23.0	2.80	6.30	0	317
1962	1.20	0	0	3.20	.40	45.0	27.0	1.60	5.80	11.0	12.0	.80	108
1963	0	0	0	0	0	3910	427	58.0	0	0	4.40	0	4399
1964	0	3.20	1.00	0	.80	803	0	200	35.0	0	2.00	4.00	1049
1965	0	0	.20	0	4.20	13230	49.0	6.70	6.10	8.70	0	3.60	13308
1966	0	0	0	4.90	3.80	694	.20	1970	15.0	0	0	0	2688
1967	3.00	0	2.60	63.0	.80	557	9.1	0	0	0	0	0	635
1968	3.60	0	4.40	0	5.60	854	67.0	350	4.80	0	0	0	1289
1969	0	0	8.90	.80	488	629	23.0	175	279	16.0	5.00	0	1625
1970	0	0	4.80	5.20	4.80	0	0	0	0	1.80	2.30	0	18.9
1971	6.00	0	0	0	0	1070	471	124	226	656	563	489	3605
1972	408	348	288	220	176	129	89.0	62.0	36.0	7.90	8.50	0	1772
1973	0	0	0	0	0	0	0	0	0	-	-	-	-
MAX	408	348	288	856	8680	13230	3960	1970	397	4500	563	489	13308
MIN	0	0	0	0	0	0	0	0	0	0	0	0	18.9
MEAN	16.2	14.3	13.3	49.5	379	940	233	120	42.4	420	22.2	21.8	2272
NO.	34	34	34	34	35	35	34	34	34	33	33	34	32
DISTR OF MEAN	.7%	.6%	.6%	2.2%	16.7%	41.4%	10.3%	5.3%	1.9%	18.5%	1.0%	1.0%	100%

RED RIVER BASIN

0729B100 Mackenzie Reservoir near Silverton, Texas

LOCATION: Lat 34°32'43", long 101°28'16". Briscoe County, at the upstream side of the dam, 0.9 miles (1.4 km) upstream from Rock Creek, 9.5 mi (15.3 km) northwest of Silverton, and 17.5 mi (28.2 km) upstream from the Prairie Dog Town Fork Red River.

DRAINAGE AREA: 188 mi² (487 km²).

PERIOD OF RECORD: October 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

REMARKS: The reservoir is formed by a rolled earthfill dam 2,100 ft (640 m) long, with a capacity of 57,770 ac-ft (71.2 km³). The dam was completed in August 1974 and storage began in June 1974. The uncontrolled emergency spillway is an open cut channel just beyond the right end of the dam. The service spillway is an uncontrolled ogee-type weir across a concrete chute at the right end of the dam. There is a 30-inch (762-millimeter) gated outlet concrete pipe that discharges into a valve vault at the downstream toe of the dam and then into the creek bed downstream. The dam was built by the Mackenzie Municipal Water Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1974	-	-	-	-	-	-	-	-	-	768	769	780
1975	799	832	812	798	894	900	1040	1020	992	960	953	943
MAX	799	832	812	798	894	900	1040	1020	992	960	953	943
MIN	799	832	812	798	894	900	1040	1020	992	768	769	780
MEAN	799	832	812	798	894	900	1040	1020	992	864	861	862
NO.	1	1	1	1	1	1	1	1	1	2	2	2
DISTR OF MEAN	7.5%	7.8%	7.6%	7.5%	8.4%	8.4%	9.7%	9.6%	9.3%	8.1%	8.1%	8.1%

RED RIVER BASIN

07298200 Tule Creek near Silverton, Texas

LOCATION: Lat 34°32'39", long 101°25'40", Briscoe County, at the bridge on State Highway 207, 0.1 mi (0.2 km) downstream from Rock Creek, 1.0 mi (1.6 km) downstream from Mackenzie Dam, 8.6 mi (13.8 km) northwest of Silverton, 15 mi (24 km) downstream from South Tule Draw, and 17.5 mi (28.2 km) upstream from the Prairie Dog Town Fork Red River.

DRAINAGE AREA: 1,160 mi² (2,980 km²), of which 960 mi² (2,490 km²) is probably noncontributing.

PERIOD OF RECORD: August 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,852.44 ft (869.424 m) above mean sea level.

AVERAGE DISCHARGE: 12 years, 5,564 ac ft/yr (6.8 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 9,900 ft³/s (280 m³/s) June 11, 1965 (gage height, 11.65 ft or 3.551 m); no flow for many days each year.

Maximum stage since 1890 occurred in 1892 (stage and discharge unknown).

REMARKS: Records fair. Since June 1974, the flow is regulated by Mackenzie Reservoir (station 07298100) located 1.0 mi (1.6 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	16.0	55.0	0	7.70	43.0	-
1965	28.0	33.0	36.0	14.0	2.40	2511.0	871	173	571	102	7.00	47.0	26994
1966	15.0	74.0	4.10	71.0	54.0	2520	477	5530	2480	22.0	42.0	60.0	11349
1967	39.0	27.0	14.0	2.90	291	247	1020	0	0	0	0	23.0	1664
1968	62.0	46.0	59.0	.60	217	4820	563	32.0	.30	64.0	50.0	32.0	5946
1969	29.0	39.0	57.0	2.60	640	1010	262	251	2040	262	102	57.0	4752
1970	61.0	40.0	53.0	221	54.0	162	4.90	70.0	88.0	.60	0	.06	755
1971	3.20	59.0	6.60	1.20	197	4500	0	533	178	534	77.0	76.0	6165
1972	107	85.0	1.00	0	6.00	278	222	16.0	316	33.0	1.70	2.30	1068
1973	7.70	15.0	121	94.0	623	42.0	27.0	214	373	35.0	1.10	4.60	1557
1974	2.50	4.30	55.0	24.0	117	309	0	113	60.0	105	4.30	6.90	601
1975	9.2	12.0	4.60	3.60	48.0	20.0	275	52.0	251	0	68.0	2.20	746
MAX	107	85.0	121	221	640	2511.0	1020	5530	2480	534	102	76.0	26994
MIN	2.50	4.30	1.00	0	2.40	20.0	0	0	0	0	0	.06	746
MEAN	33.1	39.5	37.4	39.5	204	3547	338	583	576	96.5	30.1	29.5	5554
NO.	11	11	11	11	11	11	11	12	12	12	12	12	11
DISTR OF MEAN	.6%	.7%	.7%	.7%	3.7%	63.9%	6.1%	10.5%	10.4%	1.7%	.5%	.5%	100%

RED RIVER BASIN

07298500 Prairie Dog Town Fork Red River near Brice, Texas

LOCATION: Lat 34°37'40", Long 100°56'25", Hall County, at the bridge on State Highway 70, 0.5 mi (0.8 km) downstream from Battle Creek, 1.5 mi (2.4 km) upstream from Mulberry Creek, and 6 mi (9.7 km) southwest of Brice.

DRAINAGE AREA: 6,082 mi² (15,752 km²), of which 4,501 mi² (11,657 km²) is probably noncontributing.

PERIOD OF RECORD: January 1939 to June 1944, September 1949 to July 1951, January 1959 to April 1963.

GAGE: Water-stage recorder and wire-weight gage. Datum of gage not published. December 14, 1938 to June 30, 1944, water-stage recorder, and August 10, 1949 to July 31, 1951, staff gage at site 2 mi (3.2 km) upstream at different datum.

AVERAGE DISCHARGE: 13 years (1939-44, 1949-51, 1960-63), 64,844 ac-ft/yr (60.1 hm³/yr).

EXTREMES: Period of record (1939-44, 1949-51, 1959-63); Maximum discharge, 49,000 ft³/s (1,387.7 m³/s) June 7, 1960 (gage height, 12.2 ft or 3.7 m); no flow for many days each year.

Maximum stage since at least 1906, 14.8 ft (4.5 m) in the summer of 1933, from information by a local resident.

REMARKS: Records poor. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	455	0	0	-	-	11080	756	8840	0	0	0	0	-
1940	0	0	0	1330	3790	2470	0	1320	4690	492	6060	0	20152
1941	0	60	455	657	18900	73250	11590	7700	4810	63840	5950	1750	188903
1942	600	72.0	775	2580	210	2860	1350	5610	2560	21540	165	2230	40552
1943	477	0	0	7830	9020	4460	5080	0	908	0	0	1010	28785
1944	1310	452	195	0	2020	3070	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	10500	786	0	0	-
1950	0	0	0	9.9	1720	4900	23590	4980	14190	135	0	0	49525
1951	40.0	244	28.0	0	81700	14390	854	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	1040	301	83.0	0	25.0	40520	41200	9280	1890	33650	706	1400	130095
1961	474	426	703	122	546	5410	16510	1120	1790	440	1130	3.40	28674
1962	184	8.50	0	208	178	16910	16680	4500	12.0	162	1170	35.0	40048
1963	2.20	0	0	0	-	-	-	-	-	-	-	-	-
MAX	1310	452	775	7830	81700	73250	41200	9280	14190	63840	6060	2230	188903
MIN	0	0	0	0	25.0	2470	0	0	0	0	0	0	20152
MEAN	382	125	187	1158	11811	16302	11761	4817	4135	12105	1518	643	64944
NO.	12	12	12	11	10	11	10	9	10	10	10	10	8
DISTR OF MEAN	.6%	.2%	.3%	1.8%	18.2%	25.1%	18.1%	7.4%	6.4%	18.6%	2.3%	1.0%	100%

RED RIVER BASIN

07299000 Mulberry Creek near Brice, Texas

LOCATION: Lat 34°40'30", long 100°55'00", Hall County, at the bridge on State Highways 70 and 256, 1.5 mi (2.4 km) upstream from Bitter Creek, 2.3 mi (3.7 km) southwest of Brice, and 3.3 mi (5.3 km) upstream from the mouth.

DRAINAGE AREA: 534 mi² (1,383 km²), of which 238 mi² (618 km²) is probably noncontributing.

PERIOD OF RECORD: September 1949 to July 1961.

GAGE: Moveable wire-weight gage and crest-stage indicator. Datum of gage is 2,090.27 ft (837.1 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1949-51): Maximum discharge, 50,700 ft³/s (1,435.8 m³/s) July 16, 1950 (gage height, 16.24 ft or 4.6 m, from floodmarks); no flow at times.

Maximum stage known, 16.5 ft (5.0 m) in 1941, from information by local residents.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	816	4.20	8.50	7.90	-
1950	12.0	12.0	6.00	8.30	5.40	234	15930	2810	8620	68.0	3.00	45.0	27754
1951	189	99.0	12.0	12.0	6320	5200	531	-	-	-	-	-	-
MAX	189	99.0	12.0	12.0	6320	5200	15930	2810	8620	68.0	8.50	45.0	27754
MIN	12.0	12.0	6.00	8.30	5.40	234	531	2810	816	4.20	3.00	7.90	27754
MEAN	101	55.5	9.00	10.1	3163	2717	8231	2810	4718	36.1	5.75	26.4	21883
NO.	2	2	2	2	2	2	2	1	2	2	2	2	1
DISTR OF MEAN	.5%	.3%	.0%	.0%	14.5%	12.4%	37.6%	12.8%	21.6%	.2%	.0%	.1%	100%

RED RIVER BASIN

07299200 Prairie Dog Town Fork Red River near Lakeview, Texas

LOCATION: Lat 34°34'23", long 100°44'43", Hall County, at the bridge on Farm Road 667, 7.6 mi (12.2 km) southwest of Lakeview, 8.6 mi (13.8 km) upstream from the Little Red River, and 13.3 mi (21.4 km) downstream from the former gage near Brice.

DRAINAGE AREA: 8,792 mi² (17,581 km²), of which 4,769 mi² (12,352 km²) is probably noncontributing.

PERIOD OF RECORD: May 1963 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 1,926.41 ft (587.17 m) above mean sea level, datum of 1929. Aug. 29 to Dec. 12, 1968, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 13 years, 53,222 ac-ft/yr (65.6 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 51,000 ft³/s (1,440 m³/s) Aug. 29, 1968 (gage height), 9.10 ft or 2.774 m, from floodmarks; maximum gage height, 10.50 ft (3.200 m) June 26, 1964; no flow at times.

REMARKS: Records poor. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	15850	1850	10800	7030	8200	8100	8900	-
1964	9600	13500	6900	5900	4400	12980	3830	19000	6720	12200	18100	3640	25780
1965	10900	10400	5100	12900	6800	85980	2450	11500	6740	8130	7800	16900	99002
1966	11000	6600	5200	21200	6250	14050	9470	31710	16080	10200	10800	7400	64136
1967	5700	6000	10200	81800	19100	45700	12410	34800	90500	66300	50000	71000	20245
1968	51400	95000	131000	370000	880000	222800	1070000	697500	2390000	5380000	4510000	1510000	106540
1969	100000	990000	706000	1400000	1897000	779000	7320000	8410000	8870000	36100000	11200000	30100000	50709
1970	66000	610000	640000	934000	2460000	1430000	4500000	8300000	16800000	62000000	65000000	150000000	11774
1971	13000	63000	15000	110000	593000	2650000	5060000	4800000	13160000	99500000	273000000	137000000	35851
1972	69000	170000	600000	3000000	6540000	10780000	20330000	22800000	124000000	400000000	226000000	560000000	43621
1973	123000	1800000	12250000	18500000	70900000	312000000	365000000	629000000	1664000000	1440000000	5000000000	3700000000	69208
1974	690000	4500000	15400000	149000000	329700000	468000000	5400000000	1677000000	9320000000	42100000000	25600000000	92000000000	73751
1975	120000	4000000	15100000	34900000	549000000	2722000000	7760000000	8250000000	84600000000	410000000000	1220000000000	750000000000	44497
MAX	514	400	12250	18500	32970	85980	20330	69750	16640	9950	2730	1370	106540
MIN	130	170	600	110	440	143	450	830	846	620	500	150	11774
MEAN	121	96.9	1261	2703	6802	16315	4008	11932	7048	1747	968	220	53222
NO.	12	12	12	12	12	13	13	13	13	13	13	13	12
DISTR OF MEAN	.2%	.2%	2.4%	5.1%	12.8%	30.7%	7.5%	22.4%	13.2%	3.3%	1.8%	.4%	100%

RED RIVER BASIN

07299300 Little Red River near Turkey, Texas

LOCATION: Lat 34°32'27", long 100°46'13", Hall County, at the bridge on Farm Road 657, 10 mi (16 km) upstream from the mouth, and 14.5 mi (23.3 km) northeast of Turkey.

DRAINAGE AREA: 139 mi² (360 km²).

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,925.39 ft (586.859 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 7,737 ac-ft/yr (9.5 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 3,570 ft³/s (101 m³/s) Aug. 29, 1968 (gage height, 13.48 ft or 4.109 m from floodmarks); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	493	59.0	19.0	-
1969	13.0	16.0	101	19.0	1260	1030	109	879	1590	309	99.0	19.0	5444
1970	5.20	5.10	37.0	24.0	174	13.0	0	328	1330	9.8	5.10	12.0	1943
1971	7.00	3.70	3.20	3.60	2350	178	12.0	4080	2400	652	17.0	124	9830
1972	16.0	13.0	9.00	8.00	1040	1720	2690	822	783	142	182	25.0	7450
1973	41.0	18.0	1320	4020	145	516	923	1970	4090	122	9.9	6.60	13181
1974	8.60	14.0	895	16.0	4210	2330	8.60	626	1850	595	323	32.0	10908
1975	27.0	40.0	13.0	18.0	19.0	1940	429	253	1210	842	608	19.0	5413
MAX	41.0	40.0	1320	4020	4210	2330	2690	4080	4090	842	608	124	13181
MIN	5.20	3.70	3.20	3.60	19.0	13.0	0	253	783	9.8	5.10	6.60	1943
MEAN	16.8	15.7	340	587	1314	1104	596	1280	1893	396	163	31.4	7737
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	.2%	.2%	4.4%	7.6%	17.0%	14.3%	7.7%	16.5%	24.5%	5.1%	2.1%	.4%	100%

RED RIVER BASIN

07299500 Prairie Dog Town Fork Red River near Estelline, Texas

LOCATION: Lat 34°25', long 100°28', Hall County, at the bridge on U.S. Highway 287, 180 ft (54.9 m) upstream from the Ft. Worth and Denver City Railway bridge, 1.7 mi (2.7 km) northwest of Estelline, and 6.9 mi (11.1 km) upstream from Baylor Creek.

DRAINAGE AREA: 6,970 mi² (18,052 km²), of which 4,600 mi² (11,855 km²) is probably noncontributing.

PERIOD OF RECORD: January 1924 to September 1926, January 1938 to July 1947.

GAGE: Water-stage recorder and wire-weight gage. Datum of gage is 1,754.6 ft (534.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years (1924-26, 1938-47), 112,621 ac-ft/yr (138.9 km³/yr).

EXTREMES: Period of record (1924-26, 1938-47): Maximum discharge, 56,000 ft³/s (1,585.9 m³/s) June 9, 1941 (gage height, 8.86 ft or 2.7 m); no flow at times during each year.

Maximum stage known, about 14 ft (4.3 m) in May 1914, from information by local residents.

REMARKS: Records poor. The discharge is computed from a graph based on wire-weight gage readings made twice daily or oftener. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	2200	293	4640	75.0	0	37.5	10700	49800	94.0	32200	274	0	100314
1925	165	.40	0	2980	13900	4360	22200	104000	59100	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	0	750	2700	1.20	17190	47270	5670	1600	7520	1260	0	0	83961
1939	3750	0	0	307	993	10910	1030	8040	0	0	0	0	25030
1940	0	0	0	2960	3400	2730	0	14620	10190	24.0	14810	21.0	48755
1941	3.60	361	854	9750	45990	176100	29640	14860	6450	83560	5030	39.50	376549
1942	755	114	883	24400	426	1980	1880	3920	1670	37230	509	1740	75507
1943	449	11.0	0	8700	12320	7530	16750	0	115	0	0	8.51	46726
1944	1030	324	512	0	1520	9650	7180	442	2660	4480	617	6280	34695
1945	931	222	1430	5830	821	1540	10550	2820	797	71.0	0	0	25012
1946	32.0	370	19.0	0	1410	8900	44.0	10790	14910	120900	2920	5500	165795
1947	565	0	104	9270	62920	24180	900	0	0	-	-	-	-
MAX	3750	750	4640	24400	62920	176100	29640	104000	59100	120900	14810	6280	376549
MIN	0	0	0	0	0	37.5	0	0	0	0	0	0	25012
MEAN	823	204	929	5356	13408	24599	8879	17574	8626	27973	2416	1834	112621
NO. DISTR	12	12	12	12	12	12	12	12	12	10	10	10	10
OF MEAN	.7%	.2%	.8%	4.8%	11.9%	21.8%	7.9%	15.6%	7.7%	24.8%	2.1%	1.6%	100%

RED RIVER BASIN

07299512 Jonah Creek at Weir near Estelline, Texas

LOCATION: Lat 34°34'20", long 100°20'00", Childress County, 4 mi (6 km) upstream from the mouth, and 6.5 mi (10.5 km) northeast of Estelline.

DRAINAGE AREA: 65.5 mi² (169.6 km²).

PERIOD OF RECORD: May 1974 to December 1975.

GAGE: Water-stage and concrete control. Datum of gage is 1,700 ft (518 m) above mean sea level, datum of 1929.

REMARKS: Records good. The low flow is regulated by an unknown amount of water diverted 0.25 mi (0.40 km) upstream. Water is diverted from a collection system and pumped into a disposal well that penetrates the Ellenberger Formation at a depth of 7,480 ft (2,280 m).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	24.0	2.30	4.50	128	52.0	43.0	43.0	-
1975	39.0	51.0	38.0	45.0	118	300	87.0	73.0	64.0	44.0	87.0	43.0	989
MAX	39.0	51.0	38.0	45.0	118	300	87.0	73.0	128	52.0	87.0	43.0	989
MIN	39.0	51.0	38.0	45.0	118	24.0	2.30	4.50	64.0	44.0	43.0	43.0	989
MEAN	39.0	51.0	38.0	45.0	118	162	44.6	38.7	96.0	48.0	65.0	43.0	788
NO.	1	1	1	1	1	2	2	2	2	2	2	2	1
DISTR OF MEAN	4.9%	6.5%	4.8%	5.7%	15.0%	20.6%	5.7%	4.9%	12.2%	6.1%	8.2%	5.5%	100%

RED RIVER BASIN

07299514 Jonah Creek below Weir near Estelline, Texas

LOCATION: Lat 34°33'33", long 100°20'21", Childress County, 2 mi (3 km) downstream from the Weir, 2 mi (3 km) upstream from the mouth, and 6 mi (10 km) northeast of Estelline.

DRAINAGE AREA: 88.6 mi² (172.5 km²).

PERIOD OF RECORD: June 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,680 ft (512 m) above mean sea level, datum of 1929.

REMARKS: Records poor prior to May 6, 1975 and good thereafter.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	66.0	47.0	58.0	209	106	75.0	69.0	-
1975	68.0	86.0	59.0	71.0	209	480	194	156	93.0	65.0	90.0	85.0	1656
MAX	68.0	86.0	59.0	71.0	209	480	194	156	209	106	90.0	85.0	1656
MIN	68.0	86.0	59.0	71.0	209	66.0	47.0	58.0	93.0	65.0	75.0	69.0	1656
MEAN	68.0	86.0	59.0	71.0	209	273	121	107	151	85.5	82.5	77.0	1390
NO.	1	1	1	1	1	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	4.9%	6.2%	4.2%	5.1%	15.0%	19.6%	8.7%	7.7%	10.9%	6.2%	5.9%	5.5%	100%

RED RIVER BASIN
07299530 Salt Creek near Estelline, Texas

LOCATION: Lat 34°25'28", long 100°15'08". Childress County, 3 mi (5 km) upstream from the mouth, and 11.5 mi (18.5 km) northeast of Estelline.

DRAINAGE AREA: 142 mi² (368 km²).

PERIOD OF RECORD: June 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,650 ft (503 m) above mean sea level, datum of 1929.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	69.0	36.0	108	152	72.0	74.0	82.0	-
1975	78.0	65.0	65.0	118	178	268	131	70.0	56.0	64.0	165	71.0	1329
MAX	78.0	65.0	65.0	118	178	268	131	108	152	72.0	165	82.0	1329
MIN	78.0	65.0	65.0	118	178	69.0	36.0	70.0	56.0	64.0	74.0	71.0	1329
MEAN	78.0	65.0	65.0	118	178	169	83.5	89.0	104	68.0	120	76.5	1214
NO.	1	1	1	1	1	2	2	2	2	2	2	2	1
DISTR OF MEAN	6.4%	5.4%	5.4%	9.7%	14.7%	13.9%	6.9%	7.3%	8.6%	5.6%	9.8%	6.3%	100%

RED RIVER BASIN

07299540 Prairie Dog Town Fork Red River near Childress, Texas

LOCATION: Lat 34°34'09", long 100°11'37", Childress County, at the bridge on U.S. Highways 62 and 83, 3.1 mi (5.0 km) downstream from Salt Creek, and 10.0 mi (16.1 km) north of Childress.

DRAINAGE AREA: 7,725 mi² (20,008 km²), of which 4,769 mi² (12,352 km²) is probably noncontributing.

PERIOD OF RECORD: April 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,628.4 ft (496.34 m) above mean sea level.

AVERAGE DISCHARGE: 11 years, 78,690 ac-ft/yr (87.0 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 68,800 ft³/s (1,670 m³/s) June 26, 1965 (gage height, 12.0 ft or 3.66 m); no flow at times.

Maximum stage since at least 1899, 16.9 ft (5.15 m) in May or June 1957, from information by local residents and the State Highway Department.

REMARKS: Records poor. There are many small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	3900	505	84060	1600	242	16960	2860	509	368	-
1966	233	186	106	915	130	16970	1210	32480	27950	354	171	236	80941
1967	176	156	964	1260	3640	2770	13890	1130	3490	1410	424	505	29815
1968	4820	441	1430	3670	18080	27930	5710	66720	14510	2730	3310	2130	151481
1969	337	895	4600	690	19010	14880	3480	14230	26200	5380	2370	722	92794
1970	311	203	1430	8770	3590	680	52.0	485	1540	368	176	167	17772
1971	126	289	121	802	6030	16190	501	24350	15320	9210	3900	2600	79439
1972	452	224	131	575	6790	13060	22550	1720	5240	1730	3210	558	56240
1973	691	504	14950	35330	9000	13600	2630	7490	17790	2560	255	314	105114
1974	466	111	1020	1330	52590	5920	41.0	13750	9290	6090	2460	515	94383
1975	1190	2430	249	1290	5080	9020	9660	3320	4400	1030	3500	1420	42589
MAX	4820	2430	14950	35330	52590	84080	22550	66720	27950	9210	3900	2600	151481
MIN	126	111	106	575	130	680	41.0	242	1540	354	171	167	17772
MEAN	880	544	2580	5321	11313	18645	5575	15083	12972	3066	1844	867	78690
NO.	10	10	10	11	11	11	11	11	11	11	11	11	10
DISTR													
OF MEAN	1.1%	.7%	3.3%	6.8%	14.4%	23.7%	7.1%	19.2%	16.5%	3.9%	2.3%	1.1%	100%

RED RIVER BASIN

07299570 Red River near Quanah, Texas

LOCATION: Lat 34°24'47", long 99°44'03", Hardeman County, at the bridge on State Highway 6, 8 mi (13 km) north of Quanah, and 30 mi (48 km) upstream from the Salt Fork Red River.

DRAINAGE AREA: 8,321 mi² (21,551 km²), of which 4,769 mi² (12,362 km²) is probably noncontributing.

PERIOD OF RECORD: December 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,412.97 ft (430.673 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 109,352 ac-ft/yr (134.8 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 64,000 ft³/s (1,810 m³/s) June 7, 1960 (gage height, 16.00 ft or 4.877 m); no flow at times.

Maximum stage since at least 1891 occurred in 1896, about 23 ft (7.0 m).

REMARKS: Records good. There are several small diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	-	-	-	11240
1960	6320	3750	2470	211	3000	150800	40980	8220	3300	112900	3620	13060	348631
1961	4610	5590	8230	1980	7180	9940	35870	924	578	474	5060	2270	82706
1962	2080	900	497	6800	869	65240	27900	15420	8690	2470	2870	2500	136236
1963	1570	1650	744	439	6210	43730	115	2880	11300	9240	556	341	69627
1964	375	3810	440	105	677	19290	1440	3440	11800	205	3330	1140	41220
1965	365	353	368	7930	677	108800	6060	1640	36030	23710	496	1090	185895
1966	494	1250	411	2620	312	24320	792	46980	47620	455	113	347	125714
1967	245	182	334	856	1750	1460	9920	382	1230	505	185	633	17682
1968	4300	1940	1760	1430	13500	43170	15240	97300	5920	1260	1780	1120	188720
1969	535	1280	3680	299	20940	15970	267	20030	20000	3220	2330	694	89245
1970	829	157	1720	10370	5440	399	0	4040	359	8740	3840	3440	19473
1971	124	266	9340	176	5940	33660	455	31400	35720	8770	5280	5560	127444
1972	948	270	5140	142	4530	4720	22290	542	3020	1360	2370	479	40722
1973	2210	1130	10570	22100	2650	12930	757	10450	18730	2660	278	268	84733
1974	493	222	6360	4170	58750	10230	2340	5920	15270	4250	4200	1430	111318
1975	2090	6410	1840	1840	5060	30190	12680	2550	2220	652	4510	1530	71572
MAX	6320	6410	10570	22100	58750	150800	40980	97300	47620	112900	5280	13060	348631
MIN	124	157	5140	105	312	399	0	1640	359	8740	3840	3440	17682
MEAN	1724	1823	2473	3842	8593	35928	10835	15193	13862	10192	2314	2573	109352
NO.	16	16	16	16	16	16	16	16	16	16	16	17	16
DISTR OF MEAN	1.6%	1.7%	2.3%	3.5%	7.9%	32.9%	9.9%	13.9%	12.7%	9.3%	2.1%	2.4%	100%

RED RIVER BASIN

07299670 Groesbeck Creek at State Highway 6 near Quanah, Texas

LOCATION: Lat 34°21'18", long 99°44'24", Hardeman County, at the bridge on State Highway 6, 2 mi (3 km) downstream from the confluence of North and South Groesbeck Creeks, 4 mi (6 km) north of Quanah, and 9 mi (14 km) upstream from the mouth.

DRAINAGE AREA: 303 mi² (785 km²).

PERIOD OF RECORD: December 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,425.69 ft (434.560 m) above mean sea level, datum of 1928.

AVERAGE DISCHARGE: 15 years, 10,823 ac-ft/yr (13.1 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 13,900 ft³/s (394 m³/s) Sept. 19, 1974 (gage height, 23.56 ft or 7.181 m); no flow at times.

Highest stage occurred in June 1891 (elevation and discharge unknown).

REMARKS: Records good. There are several diversions upstream from the station for farm and ranch use and for a gypsum wallboard plant.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL	
1961	-	-	-	-	-	-	-	-	-	-	-	-	419	-
1962	461	397	428	343	329	17990	1350	331	3720	584	456	443	26832	
1963	411	377	442	247	920	753	172	115	1500	213	188	220	5558	
1964	214	235	294	191	177	137	6.10	0	281	124	655	153	2467	
1965	135	137	149	565	195	134	12.0	203	6280	14170	258	1420	23658	
1966	259	289	253	233	147	92.0	309	221	1320	156	179	193	3651	
1967	162	104	136	670	107	92.0	1070	86.0	42.0	96.0	87.0	98.0	2750	
1968	123	105	127	199	161	1540	223	37.0	23.0	42.0	79.0	91.0	2750	
1969	93.0	91.0	109	67.0	141	253	32.0	3280	2180	170	157	152	6725	
1970	148	133	146	1230	598	115	34.0	18.0	36.0	68.0	98.0	108	2732	
1971	82.0	75.0	73.0	74.0	1250	213	12.0	328	7820	1650	219	156	11952	
1972	112	117	141	132	614	166	216	701	90.0	392	243	150	3074	
1973	157	164	717	1570	664	4700	650	99.0	6190	2010	239	235	17395	
1974	210	244	320	163	3200	2020	192	198	17040	661	1020	421	25689	
1975	460	401	775	812	495	661	7120	582	491	552	524	510	13383	
MAX	461	401	775	1570	3200	17990	7120	3280	17040	14170	1020	1420	26832	
MIN	82.0	75.0	73.0	67.0	107	92.0	6.10	0	23.0	42.0	79.0	91.0	2467	
MEAN	216	205	294	464	643	2062	814	443	3358	1492	314	318	10623	
NO.	14	14	14	14	14	14	14	14	14	14	14	15	14	
DISTR OF MEAN	2.0%	1.9%	2.8%	4.4%	6.1%	19.4%	7.7%	4.2%	31.6%	14.0%	3.0%	3.0%	100%	

07299840 Greenbelt Lake near Clarendon, Texas

LOCATION: Lat 35°00'02", long 100°53'40", Donley County, on the upstream side and near the right end of the dam on the Salt Fork Red River, and 4.3 mi (6.9 km) north of Clarendon.

DRAINAGE AREA: 457 mi² (1,184 km²), of which 181 mi² (466 km²) is probably noncontributing.

PERIOD OF RECORD: August 1967 to December 1975. Prior to October 1973, published as "Greenbelt Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1967-75): Maximum contents, 44,650 ac-ft (65.1 hm³) June 26-28, 1975 (elevation, 2,655.71 ft or 809.460 m); minimum contents, 2,950 ac-ft (3.64 hm³) Aug. 28, 30, 1967 (elevation, 2,607.37 ft or 794.726 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,300 ft (1,770 m) long, with a capacity of 59,100 ac-ft (72.9 hm³). Deliberate impoundment began on Dec. 5, 1966 and the dam was completed in August 1967. The dam is the property of the Greenbelt Municipal and Industrial Water Authority. The spillway is an uncontrolled open cut through natural ground, 1,450 ft (442 m) wide located at the left end of the dam, designed to discharge 184,000 ft³/s (5,210 m³/s) at an elevation of 2,684.0 ft (818.08 m). A morning glory-type drop inlet with a 26-foot, 8.5-inch diameter (8.14 m) opening at the crest discharges into a 7- by 7-foot (2- by 2-m) concrete conduit. The outlet works consist of one 36-inch (917-millimeter) pipe that is controlled by two 20-inch (508-millimeter) valves that control the discharge into a stilling basin and to a water treatment plant.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1967	-	-	-	-	-	-	-	3460	3670	4790	4990	5240
1968	5900	6160	6780	7150	8100	11750	11320	17370	17100	16880	16860	17000
1969	17360	17730	18300	18300	20510	21160	20300	20400	20690	20930	20830	21130
1970	21490	21570	21760	24460	24080	23280	22370	21620	21080	20660	20610	20570
1971	20690	20880	20870	20630	20080	19600	18680	19020	19350	20080	21130	21420
1972	21480	21560	21330	21000	22210	23090	23690	23180	22700	22370	22650	22880
1973	23230	23510	24830	27070	26980	27160	26760	25650	27130	26980	26730	26490
1974	26800	26780	26860	26380	25890	25240	23780	23820	23650	23810	23690	23780
1975	23960	24280	24310	24120	36280	44550	43840	42510	41340	40510	40730	40680
MAX	26800	26780	26860	27070	36280	44550	43840	42510	41340	40510	40730	40680
MIN	5900	6160	6780	7150	8100	11750	11320	3460	3670	4790	4990	5240
MEAN	20114	20309	20630	21139	23016	24479	23843	21892	21857	21890	22024	22132
NO. OF MEAN	8	8	8	8	8	8	8	9	9	9	9	9
DISTR												
OF MEAN	7.6%	7.7%	7.8%	8.0%	8.7%	9.3%	9.1%	8.3%	8.3%	8.3%	8.4%	8.4%

RED RIVER BASIN

0729850 Salt Fork Red River near Clarendon, Texas

LOCATION: Lat 36°00'10", long 100°53'30", Donley County, at the bridge on State Highway 70, 0.25 mi (0.40 km) downstream from Kelly Creek, and 4.0 mi (6.4 km) north of Clarendon.

DRAINAGE AREA: 457 mi² (1,183.6 km²), of which 191 mi² (494.7 km²) is probably noncontributing.

PERIOD OF RECORD: June 1960 to September 1964.

GAGE: Water-stage recorder and wire-weight gage. Datum of gage not published.

AVERAGE DISCHARGE: 5 years, 14,897 ac-ft/yr (18.1 hm³/yr).

EXTREMES: Period of record (1960-64): Maximum discharge, 28,000 ft³/s (793.0 m³/s) June 8, 1960 (gage height, 18.5 ft or 5.0 m); minimum, 0.1 ft³/s (0.003 m³/s) May 17, July 20-24, 26, August 1-9, 1963, and August 12, 1964.

REMARKS: Records poor. There is one small diversion for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	10290	1210	1450	735	7310	657	1270	-
1961	726	1140	1280	830	544	6290	2860	668	393	1960	1640	670	19001
1962	540	744	693	789	754	1930	452	937	289	346	642	606	8722
1963	316	1260	726	265	187	530	39.0	3230	1280	457	634	718	9642
1964	974	1060	667	295	359	1320	82.0	19.0	655	-	-	-	-
MAX	974	1260	1280	830	754	10290	2860	3230	1280	7310	1640	1270	19001
MIN	316	744	667	265	187	530	39.0	19.0	289	346	634	606	8722
MEAN	639	1051	842	545	461	4072	929	1261	670	2518	893	816	14697
NO.	4	4	4	4	4	5	5	5	5	4	4	4	3
DISTR OF MEAN	4.3%	7.2%	5.7%	3.7%	3.1%	27.7%	6.3%	8.6%	4.6%	17.1%	6.1%	5.6%	100%

RED RIVER BASIN

07300000 Salt Fork Red River near Wellington, Texas

LOCATION: Lat 34°57'27", long 100°13'14", Collingsworth County, at the bridge on U.S. Highway 83, 4 mi (6 km) downstream from the Ft. Worth and Denver (Burlington) Railway Co. bridge, 4.5 mi (7.2 km) south of Lutie, and 7.2 mi (11.6 km) north of Wellington.

DRAINAGE AREA: 1,222 mi² (3,166 km²), of which 209 mi² (541 km²) is probably noncontributing.

PERIOD OF RECORD: July 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,041.41 ft (591.742 m) above mean sea level, datum of 1920.

AVERAGE DISCHARGE: 24 years, 43,013 ac-ft/yr (53.8 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 146,000 ft³/s (4,130 m³/s) May 16, 1957 (gage height, 19.00 ft or 5.791 m); minimum, 0.1 ft³/s (0.003 m³/s) June 19, 1952.

REMARKS: Records fair. The flow is partly regulated since December 1966 by Greenbelt Lake (station 07299840).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	120	62.0	126	250	1140	666	-
1953	553	883	1188	1660	524	105	29660	3040	374	4460	1040	1280	44759
1954	1510	757	494	2330	3330	38190	406	2810	270	319	359	399	81184
1955	867	966	324	249	19500	31400	2000	531	217	6280	433	1160	63927
1956	1180	1140	360	252	21320	292	715	82.0	88.0	1540	138	201	27308
1957	331	704	2510	24540	72620	4080	253	7720	883	1670	2210	682	118203
1958	2230	1460	3140	2140	21950	5560	16040	240	1980	348	592	1440	57120
1959	1840	1100	368	992	16840	2950	13970	173	2700	5270	1220	5100	52523
1960	6020	4350	5800	448	4670	22310	4930	2290	4040	32010	3200	3210	93278
1961	2270	4760	3570	1730	572	16150	9410	784	354	1150	2780	3010	46540
1962	4480	1750	1670	6720	1500	8250	3740	11610	3670	1420	2100	3150	50060
1963	1950	3170	1390	823	1320	4890	343	2720	6210	519	1060	1400	25795
1964	1660	3060	1580	461	1210	7070	206	271	2680	763	2090	1840	22891
1965	1540	1330	1870	911	530	25300	656	393	1060	2580	1110	1980	38460
1966	1840	2290	708	1140	483	691	516	2470	1440	452	710	871	13611
1967	739	607	597	2400	826	556	1040	324	3270	3430	668	1210	15667
1968	2560	2620	1590	1290	4800	8210	7270	18490	2740	1670	2820	1910	55970
1969	2060	2760	5040	1670	9300	1470	362	4350	1680	1330	1150	1120	32292
1970	1250	1020	1980	3390	999	486	163	103	138	295	608	922	11354
1971	644	670	569	363	161	1810	271	172	1110	1680	1110	1890	10450
1972	1080	843	501	1850	7330	4380	3030	663	1250	687	1810	1620	25044
1973	1500	2080	5610	16710	2050	6190	633	692	1720	2170	875	1140	41370
1974	1460	982	3330	2830	7250	1600	244	423	3400	3140	2340	895	27894
1975	1930	3490	2020	2750	11570	28970	2200	1880	627	710	1560	1840	59547
MAX	6020	4760	5800	24540	72620	38190	29660	18490	6210	32010	3200	5100	118203
MIN	331	607	324	249	161	105	120	62.0	88.0	250	138	201	10450
MEAN	1804	1861	1974	3376	10464	9605	4091	2596	1751	3089	1380	1622	43613
NO.	23	23	23	23	23	23	24	24	24	24	24	24	23
DISTR													
OF MEAN	4.1%	4.3%	4.5%	7.7%	24.0%	22.0%	9.4%	6.0%	4.0%	7.1%	3.2%	3.7%	100%

RED RIVER BASIN

07300500 Salt Fork Red River at Mangum, Oklahoma

LOCATION: Lat 34°51'32", long 99°30'28", in SW¼SW¼ sec. 34, T. 5 N., R. 22 W., Greer County, Oklahoma, at the bridge on State Highway 34, 0.5 mi (0.8 km) south of Mangum, Oklahoma, and 13 mi (21 km) downstream from Fish Creek.

DRAINAGE AREA: 1,586 mi² (4,056 km²), of which 209 mi² (541 km²) is probably noncontributing.

PERIOD OF RECORD: May 1906 to June 1906, October 1937 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,490.87 ft (454.417 m) above mean sea level. Apr. 11, 1905 to June 30, 1906, nonrecording gage at site 0.2 mi (0.3 km) upstream at different datum. Oct. 1, 1937 to Nov. 8, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 41 years (1905-06, 1937-75), 63,347 ac-ft/yr (178.1 hm³/yr).

EXTREMES: Period of record (1905-06, 1937-75): Maximum discharge, 72,000 ft³/s (2,040 m³/s) May 16, 1957 (gage height, 14.55 ft or 4.435 m); maximum gage height, 14.7 ft (4.48 m) June 18, 1938; no flow at times each year except 1975.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1905	-	-	-	-	26900	9820	6000	8480	1230	0	8870	5260	-
1906	1940	2640	664	3640	6140	4800	-	-	-	-	-	-	-
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	-	-	-	-	-	-	-	-	-	-	-	-	-
1925	-	-	-	-	-	-	-	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	178	65.0	242	-
1938	277	889	561	9730	29390	64910	6340	506	3260	270	332	549	117014
1939	9380	1320	1640	1570	9330	34300	415	130	0	260	0	0	58345
1940	0	1680	22.0	1740	823	67.0	1750	1490	1100	0	1610	410	10692
1941	716	2410	2120	19360	56170	95320	9540	7940	4830	27900	4160	4530	234996
1942	3780	2200	3900	16160	2730	3120	588	529	1310	21560	2130	6130	64137
1943	4030	1440	1120	2740	6480	1920	126	0	2.00	0	0	1600	19538
1944	6300	2390	5840	1160	1020	22540	7510	920	946	1390	1450	5140	56606
1945	4280	2400	5460	4190	596	6170	5130	343	1.40	0	0	14.0	28582
1946	2760	2290	1220	3820	2010	684	367	838	3280	19320	2310	2190	41089
1947	3000	759	2580	6360	71080	21080	3560	37.0	0	588	155	326	109525
1948	423	4470	6960	208	5400	16860	295	84.0	0	0	178	328	35206
1949	2400	10910	2910	2050	36940	7860	435	542	2260	1200	700	1850	70057
1950	2590	2650	873	1000	1120	3730	10880	5000	9650	897	690	2230	41310
1951	2470	1670	1470	1390	21030	5540	7380	0	69.0	1090	661	865	43635
1952	1980	1380	1430	4250	954	0	81.0	0	0	0	0	0	10075
1953	0	0	11.0	4170	0	3090	35330	1580	39.0	7490	1320	805	53836
1954	1010	648	319	902	33830	36130	160	574	1.00	0	0	0	73574

RED RIVER BASIN

07300500 Salt Fork Red River at Mangum, Oklahoma—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	131	302	86.0	0	32280	43540	1350	99.0	996	13530	92.0	684	93090
1956	1090	1490	82.0	0	65110	1640	5450	.60	0	697	8.50	0	75568
1957	0	304	1650	27050	85380	14110	227	5400	451	1510	1560	1120	138762
1958	1770	1110	3750	3820	30540	3520	10040	174	511	14.0	69.0	831	56149
1959	1480	1150	144	2220	38110	3830	13440	14.0	884	2550	478	7530	71830
1960	12240	10830	6470	933	8050	18930	2800	3890	2850	56530	5700	7610	136833
1961	4740	9850	7920	2890	934	16090	9140	458	134	.60	2500	2180	56837
1962	6160	1800	839	9500	2090	8030	3590	10570	10420	1750	1660	3340	59749
1963	1780	3020	1980	350	6410	11370	0	1990	6910	0	1000	1430	36240
1964	1480	6790	1020	7.90	1210	9860	0	0	1940	135	4200	3540	30183
1965	1670	1790	1200	3940	284	32460	396	0	12000	13510	1760	2950	71960
1966	1870	5280	2090	2550	496	67.0	704	9410	6110	339	463	1070	30449
1967	1260	904	639	7720	2700	246	6370	4.00	5590	8930	247	829	35439
1968	7440	5840	3940	3760	27660	29680	14540	18500	4960	4990	3050	2170	126530
1969	2470	6000	11230	3980	35380	4500	120	11250	1920	1760	1270	1740	81620
1970	3980	1260	3600	12660	809	530	0	0	3.80	0	0	0	22843
1971	0	45.0	7.50	0	0	4780	364	1490	2350	2480	1350	2300	15167
1972	1090	684	80.0	1050	10770	2610	2810	0	3.00	457	922	589	21065
1973	2040	1560	8800	29160	4040	17520	70.0	377	1840	2570	976	1040	69993
1974	1350	940	2070	6770	13560	698	0	771	10860	2570	9080	2770	51439
1975	3510	5650	3480	3940	3080	33980	5630	5750	966	866	5100	2230	74182
MAX	12240	10910	11230	29160	85380	95320	35330	18500	12000	56530	9080	7610	234996
MIN	0	0	7.50	0	0	0	0	0	0	0	0	0	10075
MEAN	2689	2788	2569	5301	17021	14898	4434	2542	2556	4933	1653	1963	63347
NO.	39	39	39	39	40	40	39	39	39	40	40	40	38
DISTR													
OF MEAN	4.2%	4.4%	4.1%	6.4%	26.9%	23.5%	7.0%	4.0%	4.0%	7.8%	2.6%	3.1%	100%

RED RIVER BASIN

07301200 McClellan Creek near McLean, Texas

LOCATION: Lat 35°19'45", long 100°38'32", Gray County, at the bridge on State Highway 273, 6 mi (8 km) upstream from the mouth, and 6.8 mi (10.8 km) north of McLean.

DRAINAGE AREA: 759 mi² (1,986 km²), of which 298 mi² (774 km²) is probably noncontributing.

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,545.99 ft (776.018 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 16,899 ac-ft/yr (21.0 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 26,600 ft³/s (753 m³/s) May 29, 1975 (gage height, 14.55 ft or 4.435 m); no flow at times.

Maximum stage since 1912, 21 ft (6.4 m) May 1957, from information by local residents.

REMARKS: Records poor. The flow is largely regulated by Lake McClellan (capacity, 5,000 ac-ft or 6.16 hm³) located 18 mi (29 km) upstream. There is one small diversion from Lake McClellan.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	2040	1020	1170	-
1968	646	562	2730	3790	8080	5320	357	270	713	1490	791	1180	25686
1969	1460	2110	2120	832	2290	764	297	1710	-285	437	518	1030	13853
1970	1040	700	689	6590	1410	590	30	0	0	570	458	1670	12673
1971	1990	3060	1790	652	360	119	0	140	285	1560	3780	985	14721
1972	1030	1030	893	898	3540	2260	1220	1410	1040	451	478	985	15235
1973	716	752	2150	3710	857	294	0	0	276	122	591	675	10143
1974	841	280	752	1160	1810	683	0	278	969	935	571	625	8904
1975	636	500	492	838	15530	12920	917	210	650	122	571	497	33298
MAX	1990	3060	2730	6590	15530	12920	1220	1710	1040	2040	3780	1670	33298
MIN	636	280	492	652	360	590	0	0	0	570	458	497	8904
MEAN	1045	1124	1452	2309	4235	2802	349	472	454	802	975	980	16999
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR													
OF MEAN	6.1%	6.6%	8.5%	13.6%	24.9%	16.5%	2.1%	2.8%	2.7%	4.7%	5.7%	5.8%	100%

RED RIVER BASIN

07301300 North Fork Red River near Shamrock, Texas

LOCATION: Lat 35°15'51", long 100°14'29", Wheeler County, at the bridge on U.S. Highway 83, 2.5 mi (4.0 km) north of Shamrock, 16 mi (26 km) upstream from the Oklahoma-Texas State line, and 23 mi (37 km) downstream from McClellan Creek.

DRAINAGE AREA: 1,082 mi² (2,802 km²), of which 379 mi² (982 km²) is probably noncontributing.

PERIOD OF RECORD: March 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,165.55 ft (660.090 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 20,179 ac-ft/yr (24.9 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 20,400 ft³/s (578 m³/s) May 29, 1975 (gsge height, 7.47 ft or 2.277 m); no flow at times.

Maximum stage since at least 1915, 16.1 ft (4.91 m) in May 1957, from information by the State Highway Department and local residents.

REMARKS: Records poor. There is some regulation by Lake McClellan (capacity, 5,000 ac-ft or 8.16 hm³) located 41 mi (66 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	124	0	363	7210	0	0	1640	129	660	970	-
1965	800	1210	1110	1100	204	21950	9640	0	1940	2790	215	817	32232
1966	300	515	3840	446	9640	0	2440	2350	3620	0	0	5490	7395
1967	848	353	217	1590	1410	4340	4530	676	135	1950	2740	1290	17366
1968	940	1540	1890	1700	5730	9870	2270	404	7940	1630	950	512	27515
1969	1190	2660	3510	355	7340	478	0	3410	808	712	346	835	21644
1970	822	638	1970	6210	195	575	0	2440	0	0	0	0	10434
1971	0	1390	740	0	397	9640	0	3040	444	3700	2070	1190	9622
1972	999	639	4400	232	3320	535	2220	283	896	3640	1040	1050	11254
1973	1820	1220	5200	15010	2890	271	0	0	1050	433	305	1190	29389
1974	368	627	4050	340	2910	212	0	0	382	852	2440	741	12922
1975	794	1650	989	1410	19280	17600	3050	793	0	6460	4470	912	50955
MAX	1820	2660	5200	15010	19280	21950	4530	3410	3620	3700	4470	1290	50955
MIN	0	353	4400	0	9640	0	0	0	0	0	0	0	7395
MEAN	807	1131	1654	2366	3678	5261	1016	664	745	1020	1044	793	20179
NO.	11	11	12	12	12	12	12	12	12	12	12	12	11
DISTR OF MEAN	4.0%	5.6%	8.2%	11.7%	18.2%	26.1%	5.0%	3.3%	3.7%	5.1%	5.2%	3.9%	100%

RED RIVER BASIN

07301410 Sweetwater Creek near Kelton, Texas

LOCATION: Lat 35°28'23", long 100°07'14", Wheeler County, at the bridge on Farm Road 592, 5 mi (8 km) north of Kelton, 8 mi (13 km) upstream from the Texas-Oklahoma State line, and 8.5 mi (13.7 km) northeast of Wheeler.

DRAINAGE AREA: 287 mi² (743 km²), of which 20 mi² (50 km²) is probably noncontributing.

PERIOD OF RECORD: December 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,230 ft (680 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 10,306 ac-ft/yr (12.7 hm³/yr).

EXTREMES: Period of record (1861-75): Maximum discharge, 2,110 ft³/s (59.8 m³/s) Apr. 18, 1970 (gage height, 14.85 ft or 4.557 m); no flow at times.

Maximum stage since at least 1882, about 20 ft (6.1 m) May 16, 1957.

REMARKS: Records good. There are some diversions above the station for ranch use.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	-	-	-	-	1030	-
1962	1120	976	990	1640	663	4020	624	831	1470	783	994	1160	15271
1963	819	1170	1380	843	426	1730	377	2630	483	231	581	863	11533
1964	897	1400	1050	809	708	1640	510	0	300	450	499	766	7868
1965	815	817	1020	946	988	5140	310	540	1810	1790	930	1130	15750
1966	904	1190	1030	902	543	167	121	690	269	233	412	479	6319
1967	682	630	719	1250	530	854	1980	264	175	219	565	488	8356
1968	710	855	1090	1000	1480	1630	300	684	342	2420	936	936	12383
1969	1050	1070	1390	1120	1870	677	114	2320	759	621	704	928	12623
1970	744	811	1010	4440	1350	618	169	630	430	216	621	658	18743
1971	614	563	570	519	208	857	490	430	880	404	762	725	5402
1972	748	738	610	578	1310	370	361	710	750	550	252	449	5617
1973	613	730	1980	3490	2190	607	195	128	970	544	630	922	12999
1974	912	811	1980	934	967	286	270	650	349	353	2050	760	9494
1975	825	986	1070	1060	1900	1580	801	244	710	160	430	571	9698
MAX	1120	1400	1980	4440	2190	5140	1980	2630	1810	2420	2050	1160	15750
MIN	613	563	570	519	208	167	270	0	300	450	252	449	5402
MEAN	818	911	1135	1395	1081	1441	391	533	493	577	740	791	10306
NO.	14	14	14	14	14	14	14	14	14	14	14	15	14
DISTR OF MEAN	7.9%	8.8%	11.0%	13.5%	10.5%	14.0%	3.8%	5.2%	4.8%	5.6%	7.2%	7.7%	100%

RED RIVER BASIN

07307500 Quitaque Creek near Quitaque, Texas

LOCATION: Lat 34°14', long 101°07', Floyd County, 10.0 mi (16.1 km) southwest of Quitaque, and 1.0 mi (1.6 km) downstream from Wilson Creek.

DRAINAGE AREA: 293 mi² (758.9 km²).

PERIOD OF RECORD: October 1946 to September 1959.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,633.91 ft (802.82 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 5,314 ac-ft/yr (6.8 hm³/yr).

EXTREMES: Period of record (1945-59): Maximum discharge, 6,060 ft³/s (171.6 m³/s) August 4, 1957; minimum discharge, 1.1 ft³/s (0.03 m³/s) August 4, 1956.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1945	-	-	-	-	-	-	-	-	-	340	271	300	-
1946	342	301	351	312	264	268	214	214	446	647	320	387	4066
1947	376	335	336	350	2020	248	213	230	202	270	379	374	5333
1948	360	409	385	350	330	322	239	268	608	326	364	367	4328
1949	375	438	406	430	631	368	313	331	427	368	324	412	4823
1950	455	398	376	332	314	438	750	439	1640	393	386	365	6286
1951	370	338	369	429	956	457	275	290	425	295	313	344	4861
1952	357	328	348	427	468	235	303	235	246	273	346	344	3910
1953	352	317	365	360	373	228	329	370	229	338	292	325	3878
1954	330	320	334	328	1860	355	222	594	199	280	313	324	5479
1955	323	302	315	300	2610	3050	503	283	306	474	266	328	9060
1956	350	318	279	317	562	283	192	150	177	230	282	313	3453
1957	303	283	343	669	1610	5550	242	1060	229	327	280	292	11188
1958	304	282	379	418	329	347	167	165	241	272	283	290	3477
1959	351	280	273	272	368	739	745	150	191	-	-	-	-
MAX	455	438	406	669	2610	5550	750	1060	1640	647	386	412	11188
MIN	303	280	273	272	264	228	167	150	177	230	266	290	3453
MEAN	353	332	347	378	908	920	336	341	398	345	316	340	5314
NO.	14	14	14	14	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	6.7%	6.2%	6.5%	7.1%	17.1%	17.3%	6.3%	6.4%	7.5%	6.5%	5.9%	6.4%	100%

RED RIVER BASIN

07307600 North Pease River near Childress, Texas

LOCATION: Lat 34°16'30", long 100°17'05", Cottle County, at the bridge on U.S. Highways 82 and 83, and 12.2 mi (19.6 km) south of Childress.

DRAINAGE AREA: 1,434 mi² (3,714 km²).

PERIOD OF RECORD: May 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,610 ft (491 m) above mean sea level, datum of 1929. Prior to June 8, 1973, nonrecording gage at same site and datum.

EXTREMES: Period of record (1973-75): Maximum discharge, 7,130 ft³/s (202 m³/s) June 2, 1973 (gage height, 10.24 ft or 3.121 m); no flow at times.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	-	-	-	-	706	6290	68.0	371	5330	821	11.0	.10	-
1974	0	0	925	0	6010	10490	.10	161	4320	2540	942	104	25492
1975	292	1060	130	1070	.30	3230	2500	371	122	328	749	35.0	9887
MAX	292	1060	925	1070	6010	10490	2500	371	5330	2540	942	104	25492
MIN	0	0	130	0	.30	3230	.10	161	122	328	11.0	.10	9887
MEAN	146	530	528	535	2239	6670	856	301	3257	1230	567	46.4	16905
NO.	2	2	2	2	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	.9%	3.1%	3.1%	3.2%	13.2%	39.5%	5.1%	1.8%	19.3%	7.3%	3.4%	.3%	100%

RED RIVER BASIN

07307760 Middle Pease River near Paducah, Texas

LOCATION: Lat 34°12'31", long 100°18'03", Cottle County, at the bridge on U.S. Highways 62 and 83, and 11.8 mi (19.0 km) north of Paducah.

DRAINAGE AREA: 1,088 mi² (2,813 km²), of which 65 mi² (168 km²) is probably noncontributing.

PERIOD OF RECORD: May 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,830 ft (497 m), datum of 1929. Prior to June 6, 1973, nonrecording gage to same site and datum.

EXTREMES: Period of record (1973-75): Maximum discharge, 5,390 ft³/s (153 m³/s) June 4, 1974 (gage height, 11.20 ft or 3.414 m); no flow for many days.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	-	-	-	-	370	365	5.30	23.0	1020	34.0	0	0	-
1974	0	0	0	0	844	9280	0	0	1130	2050	1080	197	14581
1975	228	1460	681	335	0	65.0	556	160	70	0	2.70	0	3488
MAX	228	1460	681	335	844	9280	556	160	1130	2050	1080	197	14581
MIN	0	0	0	0	0	65.0	0	0	70	0	0	0	3488
MEAN	114	730	341	168	405	3237	187	61.0	717	695	361	65.7	7082
NO.	2	2	2	2	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	1.6%	10.3%	4.8%	2.4%	5.7%	45.7%	2.6%	.9%	10.1%	9.8%	5.1%	.9%	100%

RED RIVER BASIN

07307800 Pease River near Childress, Texas

LOCATION: Lat 34°13'39", long 100°04'24", Cottle County, at the bridge on Farm Road 104, 0.8 mi (1.3 km) upstream from Catfish Creek, 4.4 mi (7.1 km) downstream from the confluence of the North and Middle Forks, and 17 mi (27 km) southeast of Childress.

DRAINAGE AREA: 2,754 mi² (7,133 km²), of which 559 mi² (1,488 km²) is probably noncontributing.

PERIOD OF RECORD: December 1959 to September 1962, October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,492.98 ft (465.060 m) above mean sea level, datum of 1929. Prior to Dec. 21, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 13 years (1959-62, 1967-75), 48,401 ac-ft/yr (59.7 hm³/yr).

EXTREMES: Period of record (1959-62, 1967-75): Maximum discharge, 19,000 ft³/s (538 m³/s) June 9, 1960 (gage height, 13.59 ft or 4.142 m); no flow Aug. 10-22, 1969 and May 25, 26, 1971.

Maximum stage since at least 1909, 22 ft (6.7 m) June 1, 1957.

REMARKS: Records fair. There are three small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	-	-	-	5780
1960	1730	1550	748	171	1630	23970	10890	4950	548	38040	637	1960	86824
1961	1550	2590	2580	406	226	7890	15270	3100	685	180	701	379	35557
1962	333	195	226	932	1020	33920	9130	413	7760	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	970	270	278	-
1968	2320	975	3540	781	8830	13320	2830	15800	859	491	1420	433	51599
1969	321	373	1520	275	7070	7660	226	4600	2490	3650	2030	459	30674
1970	484	255	1070	6780	1300	243	25.0	1850	132	264	207	264	12874
1971	166	157	171	382	9920	10180	48.0	9280	22110	8160	1040	1770	63384
1972	497	360	184	238	13620	9190	7870	2790	7520	2120	1420	553	46362
1973	1810	1550	11110	12820	1720	8690	1690	2850	10420	3300	455	369	56784
1974	282	279	1090	198	11630	18710	39.0	377	16350	6080	4460	1190	60685
1975	1140	3030	1510	2680	368	5050	7140	3050	927	725	1500	482	27602
MAX	2320	3030	11110	12820	13620	33920	15270	15800	22110	38040	4460	5780	86824
MIN	166	157	171	171	226	243	25.0	377	132	180	207	264	12874
MEAN	967	1029	2159	2333	5212	12620	5014	4460	6346	5816	1285	1160	48401
NO.	11	11	11	11	11	11	11	11	11	11	11	12	10
DISTR OF MEAN	2.0%	2.1%	4.5%	4.8%	10.8%	26.1%	10.4%	9.2%	13.1%	12.0%	2.7%	2.4%	100%

RED RIVER BASIN

07308000 Pease River near Crowell, Texas

LOCATION: Lat 34°06', long 99°41', Foard-Hardeman County line, at the bridge on State Highway 283, 4 mi (6.4 km) upstream from Raggedy Creek, 7 mi (11.3 km) upstream from the Kansas City, Mexico, and Orient Railway (Santa Fe) bridge, and 8 mi (12.8 km) north of Crowell.

DRAINAGE AREA: 2,040 mi² (7,614.6 km²), of which 630 mi² (1,372.7 km²) is probably noncontributing.

PERIOD OF RECORD: January 1924 to June 1947.

GAGE: Water-stage recorder and wire-weight gage. Datum of gage, 1,330.44 ft (405.5 m) above mean sea level.

AVERAGE DISCHARGE: 24 years, 175,544 ac-ft/yr (216.4 hm³/yr).

EXTREMES: Period of record (1924-47): Maximum discharge, 106,000 ft³/s (3,001.9 m³/s) June 6, 1941; maximum gage height, 13.0 ft (3.96 m) September 18, 1936, from graph based on gage readings; no flow at times during each year.

Maximum stage known, 19.6 ft (5.97 m) June 4, 1891.

REMARKS: Records poor. The discharge is computed from a graph based on readings of the wire-weight gage made once daily or oftener. No diversion above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	668	286	2880	5900	702	19600	72650	26700	345	1190	21.0	100	131042
1925	1190	277	38.0	23120	69270	3060	5250	71340	63270	10300	2410	14.0	249539
1926	44.0	66.0	2200	36600	6440	5680	16380	1520	26860	-	-	-	-
1927	3730	1040	384	2840	7170	9570	1160	440	4420	2120	30.0	61.0	32965
1928	61.0	288	0	131	10520	9520	12140	10100	333	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	5820	1720	191	-
1930	695	1020	2910	7140	4270	35.0	196	54.0	236	72070	1230	16640	108496
1931	990	5020	2020	4850	3380	22430	787	3950	0	11180	5530	3910	64047
1932	4570	696	33.0	13090	7070	140800	51970	20370	10900	237	2.00	20330	270068
1933	726	455	806	1.00	17700	303	36130	32240	22570	50.0	806	558	112345
1934	361	76.0	1290	734	4700	7590	1060	19130	22290	5.00	1750	50.0	59036
1935	27.0	68.0	30410	54220	253100	37750	5540	29590	10320	9790	1590	1250	433655
1936	705	547	479	545	11970	5130	3740	61.0	212000	2610	1030	1000	239817
1937	860	167	211	2110	26950	38090	5220	66480	16730	19510	840	455	177623
1938	216	1320	3980	1900	34600	96150	6860	7880	362	2510	1980	101	157859
1939	13000	175	5450	57.0	11400	91040	18170	26810	1.00	4020	2.00	157	160282
1940	156	644	9.7	8090	13090	1670	800	51010	6400	2410	6820	77.0	91177
1941	328	1080	1950	44310	251700	329100	8440	53320	34010	124100	6630	5180	860148
1942	2350	1110	1200	68430	3690	920	1300	2250	33080	19920	1560	1770	137580
1943	1440	521	526	4130	22070	27640	735	0	369	539	260	1120	59350
1944	1030	858	680	377	5610	33560	2670	3420	4070	2090	603	1710	56678
1945	1190	752	1010	1600	222	4550	63520	15860	3190	2090	388	313	94445
1946	793	397	104	37.0	3590	19670	2710	1980	51850	53330	2050	1750	138261
1947	928	243	503	4110	149400	3440	-	-	-	-	-	-	-
MAX	13000	5020	30410	68430	253100	329100	72650	71340	212000	124100	6820	20330	860148
MIN	27.0	66.0	0	1.00	222	35.0	196	0	0	5.00	2.00	14.0	32965
MEAN	1568	744	2568	12362	39940	39448	14419	19750	23798	16471	1774	2702	175544
NO.	23	23	23	23	23	23	22	22	22	21	21	21	20
DISTR OF MEAN	.9%	.4%	1.5%	7.0%	22.8%	22.5%	8.2%	11.3%	13.6%	9.4%	1.0%	1.5%	100%

RED RIVER BASIN
07308200 Pease River near Vernon, Texas

LOCATION: Lat 34°10'44", long 96°16'40", Willbarger County, at the bridge on U.S. Highway 283, 1.9 mi (3.1 km) north of Vernon, and 10 mi (16 km) upstream from the mouth.

DRAINAGE AREA: 3,488 mi² (9,034 km²), of which 589 mi² (1,448 km²) is probably noncontributing.

PERIOD OF RECORD: December 1969 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,186.03 ft (355.405 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 79,607 ac-ft/yr (98.2 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 31,000 ft³/s (878 m³/s) Sept. 19, 1965 (gage height, 18.50 ft or 5.639 m); no flow at times.

Maximum stage since at least 1890, 24 ft (7.3 m) in 1891.

REMARKS: Records fair. There are four small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL	
1959	-	-	-	-	-	-	-	-	-	-	-	-	10000	-
1960	2710	2920	1310	332	2100	33460	24190	4220	824	65010	2340	3680	143096	3680
1961	2870	5000	8840	2200	376	7020	21830	1410	1630	3400	2090	464	53733	464
1962	383	158	9540	5150	818	56410	16800	3990	16970	3950	3250	1750	109724	1750
1963	568	570	2280	1830	10190	26940	5540	3040	10940	0	984	1340	54400	1340
1964	1840	2470	3840	3460	1870	1610	0	999	1140	4840	3090	1440	11301	1440
1965	6940	1140	5420	824	7310	5660	2740	3440	53250	41230	2810	2960	114128	2960
1966	1250	976	910	1510	631	6900	369	16080	17930	752	104	9540	47507	9540
1967	4640	8400	3410	19210	5370	8330	7930	1130	3950	1290	144	8140	47492	8140
1968	4610	1600	4690	1970	10620	18870	7190	15000	2860	389	729	657	69185	657
1969	285	545	1300	396	7760	13100	101	3740	9130	9460	3520	840	50177	840
1970	983	356	5050	3020	2550	1230	0	1370	845	941	0	0	15413	0
1971	0	0	0	0	6190	12940	0	5220	30090	7190	1400	1950	64980	1950
1972	702	455	510	1190	25780	8210	5240	3420	22990	6720	4210	1490	80917	1490
1973	7160	2920	16550	21390	7080	20200	16480	3730	44770	8290	2120	1150	151840	1150
1974	781	570	1650	488	21100	32120	5340	4040	41770	11070	7800	2050	119492	2050
1975	1870	6100	3150	3840	9000	10400	72870	13730	2970	1820	4860	1370	131980	1370
MAX	7160	6100	16550	21390	25780	56410	72870	16080	53250	65010	7800	10000	151840	10000
MIN	0	0	0	0	376	1230	0	3040	824	0	0	0	11301	0
MEAN	1515	1541	2899	3960	7422	16463	10821	4634	16379	9827	2466	1680	79607	1680
NO.	16	16	16	16	16	16	16	16	16	16	16	16	16	16
DISTR														
OF MEAN	1.9%	1.9%	3.6%	5.0%	9.3%	20.7%	13.6%	5.8%	20.6%	12.3%	3.1%	2.1%	100%	100%

RED RIVER BASIN
07308500 Red River near Burkburnett, Texas

LOCATION: Lat 34°08'30", long 98°31'53", Wichita County, at the bridge on U.S. Highways 277 and 281, and 2 mi (3 km) northeast of Burkburnett.

DRAINAGE AREA: 20,570 mi² (53,280 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: July 1924 to August 1925, January 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 952.57 ft (290.343 m) above mean sea level, datum of 1929. July 11, 1924 to Aug. 31, 1925, nonrecording gage at site 1,000 ft (305 m) downstream at same datum. Dec. 16, 1959 to Jan. 11, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 18 years (1924-25, 1960-75), 608,279 ac-ft/yr (751.2 hm³/yr).

EXTREMES: Period of record (1924-25, 1960-75): Maximum discharge, 62,800 ft³/s (1,780 m³/s) Oct. 18, 1965 (gage height, 11.46 ft or 3.493 m); maximum gage height, 12.84 ft (3.853 m) July 27, 1975; no flow at times.

Flood of June 3, 1957 reached a stage of 13.54 ft (4.127 m) from floodmarks. According to local residents, higher stages occurred in 1891 and June 1941.

REMARKS: Records fair. There is some regulation by Greenbelt Lake on the Salt Fork (capacity, 59,110 ac-ft or 72.9 hm³), Lake Altus on the North Fork (capacity, 134,600 ac-ft or 168 hm³), and Lake McClellan on McClellan Creek (capacity, 5,000 ac-ft or 6.16 hm³). There are many small diversions for irrigation upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	32400	50100	14000	45200	7400	5720	-
1925	15000	8660	5010	126000	220000	58600	21700	195000	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	48900	89450	38140	17170	27050	259600	90640	21800	17610	490500	60350	65500	1226710
1961	41950	46210	59700	36790	25880	176900	118000	9940	23200	16430	70870	17110	642980
1962	16030	11080	7790	35230	31070	368900	34960	33730	74610	28850	18590	23670	684510
1963	11850	17250	16990	15170	32900	180400	5380	1590	20100	2660	4380	3110	311800
1964	3260	28280	5380	2700	15770	46640	845	80.0	15820	4330	47210	10020	180335
1965	6630	4400	4050	17780	25690	183000	24120	1890	252500	312700	32700	32170	897630
1966	18640	23930	16820	16630	8960	24410	1760	56420	107800	13550	3050	3420	295390
1967	3650	2590	1880	70880	20540	34320	73690	4170	13940	6500	3160	2470	237790
1968	21740	10770	25020	15020	114400	201200	124000	83440	39090	43500	12200	9830	700210
1969	8720	16120	25670	15420	242500	67520	10420	49290	114000	26820	15440	8880	601000
1970	8590	5550	25990	24350	19140	8790	3.60	418	5080	1340	57.0	183	99492
1971	340	465	490	8.70	704	77280	1290	45820	164500	56510	44350	34750	426508
1972	9210	6680	4830	9720	130200	62540	31760	6720	26420	36720	75950	6020	406770
1973	66930	19530	136000	356200	48260	120200	31120	27750	144600	79260	15520	11490	1056860

RED RIVER BASIN

07308500 Red River near Burkburnett, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	9410	8110	29960	13590	220100	76690	3360	19340	232700	62580	93310	25900	795070
1975	24250	55490	41700	36890	86320	218800	365700	127100	36000	20670	41500	28250	1082670
MAX	66930	69450	136000	356200	242500	368900	365700	195000	252600	490500	93310	65500	1226710
MIN	340	465	490	8.70	704	8790	3.60	80.0	5080	1340	57.0	163	99492
MEAN	18535	20857	26214	47738	74676	127399	53953	40811	76586	73420	32120	16970	609279
NO. OF MEAN	17	17	17	17	17	17	18	18	17	17	17	17	16
DISTR OF MEAN	3.0%	3.4%	4.3%	7.8%	12.3%	20.9%	8.9%	6.7%	12.6%	12.1%	5.3%	2.8%	100%

RED RIVER BASIN

07311600 North Fork Wichita River near Paducah, Texas

LOCATION: Lat 33°57'02", long 100°03'42", Cottle County, at a county road bridge, 4 mi (6 km) downstream from Cottonwood Creek, 7 mi (11 km) downstream from Salt Creek, 10 mi (16 km) upstream from the Middle Fork, and 14 mi (23 km) southwest of Paducah.

DRAINAGE AREA: 540 mi² (1,389 km²).

PERIOD OF RECORD: August 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,530 ft (466 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 14,234 ac-ft/yr (17.6 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 9,920 ft³/s (281 m³/s) Aug. 25, 1966 (gage height, 15.3 ft or 4.66 m, from floodmarks); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 1-4, 1964 (gage height, 4.35 ft or 1.326 m); minimum gage height, 2.89 ft (0.881 m) July 2, 1975.

Maximum stage since at least 1908, 28.5 ft (8.99 m) in October 1955.

REMARKS: Records good. There is one small diversion for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT.	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	494	432	484	713	787	-
1962	740	577	619	519	430	2750	625	778	1880	932	550	504	10904
1963	519	527	1010	546	448	633	193	214	294	190	589	364	5527
1964	367	500	398	316	650	603	206	122	123	229	234	282	4030
1965	297	265	303	2230	886	2120	200	827	5740	3840	298	896	17902
1966	371	286	321	329	223	1790	130	13270	3460	388	353	390	21311
1967	386	324	329	4270	356	5400	1650	307	1800	647	424	453	16346
1968	603	501	751	562	627	1870	477	405	329	471	462	527	7585
1969	543	568	582	481	3410	5130	361	807	3050	2820	1060	744	19556
1970	696	678	1020	857	707	610	465	317	271	386	495	509	7011
1971	499	463	418	394	3720	4010	2220	2750	3850	812	542	668	20346
1972	617	517	554	1130	1970	999	805	1110	6240	747	704	736	16129
1973	920	722	1130	972	774	607	1010	773	1250	1030	899	811	10898
1974	698	666	821	781	3110	5710	437	551	8380	2930	1040	889	26013
1975	897	889	815	795	1670	784	4950	5300	992	809	891	781	19573
MAX	920	889	1130	4270	3720	5710	4950	13270	8380	3840	1060	896	26013
MIN	297	265	303	316	223	603	130	122	123	190	234	282	4030
MEAN	582	535	648	1013	1356	2358	981	1868	2539	1114	617	623	14234
NO.	14	14	14	14	14	14	14	15	15	15	15	15	14
DISTR OF MEAN	4.1%	3.8%	4.6%	7.1%	9.5%	16.6%	6.9%	13.1%	17.8%	7.8%	4.3%	4.4%	100%

RED RIVER BASIN

07311622 North Fork Wichita River near Crowell, Texas

LOCATION: Lat 33°52'12", long 99°56'48", Foard County, 152 ft (46 m) downstream from a ranch road, 2.0 mi (3.2 km) upstream from the Middle Fork, and 15.0 mi (24.1 km) southwest of Crowell.

DRAINAGE AREA: 591 mi² (1,531 km²).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,450 ft (442 m) above mean sea level, datum of 1928.

AVERAGE DISCHARGE: 6 years, 18,098 ac-ft/yr (22.3 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 4,200 ft³/s (119 m³/s) Sept. 4, 1972 (gage height, 8.17 ft or 2.480 m); minimum, 1.2 ft³/s (0.034 m³/s) July 19, 1971.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	455	426	656	-
1971	496	540	579	488	4780	4020	185	2270	3380	1020	720	819	19297
1972	666	645	831	1680	2070	1650	714	564	5200	1160	881	823	16884
1973	1100	811	1830	1070	794	630	1740	1110	1180	847	760	736	12608
1974	613	593	681	590	2350	4890	320	654	8120	2760	1220	1100	23891
1975	966	1040	974	833	1660	900	5730	3110	1140	881	982	912	19128
MAX	1100	1040	1830	1680	4780	4890	5730	3110	8120	2760	1220	1100	23891
MIN	496	540	579	488	794	630	185	564	1140	855	426	656	12608
MEAN	768	726	979	932	2331	2418	1738	1542	3804	1187	832	841	18098
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR OF MEAN	4.2%	4.0%	5.4%	5.2%	12.9%	13.4%	9.6%	8.5%	21.0%	6.6%	4.6%	4.6%	100%

RED RIVER BASIN

07311648 Middle Fork Wichita River near Truscott, Texas

LOCATION: Lat 33°51'12", long 99°57'44", Foard County, 32 ft (10 m) downstream from a ranch road, 3.0 mi (4.8 km) upstream from the mouth, and 11.1 mi (17.9 km) northwest of Truscott.

DRAINAGE AREA: 161 mi² (417 km²).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,457.87 ft (444.359 m) above mean sea level.

AVERAGE DISCHARGE: 6 years, 7,289 ac-ft/yr (9.0 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 1,980 ft³/s (47.6 m³/s) July 25, 1975 (gage height, 9.96 ft or 3.036 m); minimum, 1.6 ft³/s (0.045 m³/s) July 9, 1971.

Maximum stage since at least 1800 occurred in August 1913, about 17 ft (5.2 m), from information furnished by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	287	289	314	-
1971	264	246	225	230	1600	290	179	859	648	443	319	344	5647
1972	343	261	207	833	1220	1030	367	925	1550	668	527	277	8208
1973	316	277	639	315	319	334	624	502	944	418	372	332	5392
1974	278	196	241	218	717	1400	229	967	2290	649	332	246	7763
1975	292	428	295	334	2330	278	2900	780	536	410	782	910	9775
MAX	343	428	639	833	2330	1400	2900	967	2290	668	782	410	9775
MIN	264	196	207	218	319	278	179	502	536	287	289	246	5392
MEAN	299	262	321	386	1237	666	860	807	1194	479	437	321	7289
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR OF MEAN	4.1%	3.9%	4.4%	5.3%	17.0%	9.1%	11.8%	11.1%	16.4%	6.6%	6.0%	4.4%	100%

RED RIVER BASIN

07311700 North Fork Wichita River near Truscott, Texas

LOCATION: Lat 33°49'14", long 99°47'10", Ford-Knox County line, at the bridge on State Highway 6, 4.5 mi (7.2 km) north of Truscott, and 47.6 mi (76.6 km) upstream from its confluence with the South Fork Wichita River.

DRAINAGE AREA: 937 mi² (2,427 km²).

PERIOD OF RECORD: December 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,351.78 ft (412.023 m) above mean sea level; datum of 1929. Prior to Jan. 2, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 46,091 ac-ft/yr (56.8 km³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 28,900 ft³/s (818 m³/s) Sept. 10, 1965 (gage height, 21.96 ft or 6.693 m); minimum, 0.01 ft³/s (0.0003 m³/s) July 25, 1964 and Aug. 22, 23, 1974.

Maximum stage since at least 1900 occurred in September 1919.

REMARKS: Records good. There is one small diversion for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	-	-	-	5270
1960	1310	1210	1080	787	7720	12840	17700	1910	789	22060	1530	1640	70576
1961	1530	1790	3760	1480	1450	2580	7290	1600	1800	1280	2010	1180	27750
1962	1120	895	861	1690	1200	6830	1080	1040	7200	5670	1810	1090	30486
1963	786	758	1290	2690	5190	6630	404	222	1520	240	1860	728	22318
1964	638	1520	593	453	3730	4710	44.0	72.0	1780	657	1400	764	16361
1965	506	342	338	4050	1010	5670	80.0	3400	48680	26440	1140	1730	93386
1966	960	946	966	1390	1140	8100	237	77820	19090	1250	879	910	113688
1967	821	706	729	11010	3850	22460	6090	656	4370	970	619	757	53038
1968	3250	2050	4280	1190	1160	4030	3170	344	209	812	1030	754	22279
1969	753	825	956	685	8320	8060	259	1100	13360	8130	1850	1480	45778
1970	1270	1030	5280	1510	1410	706	285	416	654	704	660	829	14754
1971	732	714	670	680	6630	4690	385	3310	8600	2860	1250	1290	31811
1972	1260	1540	1590	7040	9580	6450	1650	4480	15160	3110	2290	1170	55320
1973	2340	1710	4440	2610	1600	1210	5530	2520	4770	1490	1780	1130	31130
1974	958	835	978	1310	4890	10430	284	2000	23210	5420	2190	1390	53895
1975	1540	2190	1400	1460	6860	2200	19480	6670	2790	1540	3210	1480	50820
MAX	3250	2190	5280	11010	9580	22460	19480	77820	48680	26440	3210	5270	113688
MIN	506	342	338	453	1010	706	44.0	72.0	209	240	619	728	14754
MEAN	1236	1191	1826	2502	4109	6725	3998	6723	9624	5165	1594	1388	46081
NO.	16	16	16	16	16	16	16	16	16	16	16	17	16
DISTR OF MEAN	2.7%	2.6%	4.0%	5.4%	8.9%	14.6%	8.7%	14.6%	20.9%	11.2%	3.5%	3.0%	100%

RED RIVER BASIN

07311780 South Fork Wichita River near Guthrie, Texas

LOCATION: Lat. 33°37'29", long 100°13'04". King County, 60 ft (18 m) upstream from a ranch road, 3.9 mi (6.3 km) upstream from Willow Creek, and 6.1 mi (9.8 km) east of Guthrie.

DRAINAGE AREA: 239 mi² (619 km²).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,600 ft (488 m) above mean sea level, datum of 1029.

AVERAGE DISCHARGE: 6 years, 3,954 ac-ft/yr (4.9 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 2,060 ft³/s (58.3 m³/s) Aug. 25, 1971 (gage height, 7.15 ft or 2.179 m); minimum, 2.1 ft³/s (0.060 m³/s) for many days in 1971.

Maximum stage since 1950, 20.8 ft (6.34 m) in May 1954, present site and datum, from floodmarks furnished by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	181	166	174	-
1971	192	156	178	164	190	174	141	2550	273	553	348	346	5265
1972	305	249	282	237	259	321	253	449	333	303	301	301	3593
1973	310	266	480	326	294	283	339	381	380	358	242	258	3897
1974	264	230	277	267	301	605	208	194	310	355	278	282	3571
1975	258	223	285	213	876	265	356	325	285	253	215	230	3784
MAX	310	266	480	326	876	605	356	2550	380	553	348	346	5265
MIN	192	156	178	164	190	174	141	194	273	181	166	174	3571
MEAN	266	225	300	241	384	330	255	780	316	334	258	265	3954
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR OF MEAN	6.7%	5.7%	7.6%	6.1%	9.7%	8.3%	6.5%	19.7%	8.0%	8.4%	6.5%	6.7%	100%

RED RIVER BASIN

07311790 South Fork Wichita River at Ross Ranch near Benjamin, Texas

LOCATION: Lat 33°39'18", Long 100°00'40", King County, 170 ft (52 m) upstream from a ranch road, 1.6 mi (2.6 km) downstream from Ox Yoke Creek, and 13.7 mi (22.0 km) northwest of Benjamin.

DRAINAGE AREA: 499 mi² (1,292 km²).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,450 ft (442 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 10,967 ac-ft/yr (13.6 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 2,780 ft³/s (78.7 m³/s) May 28, 1975 (gage height, 12.23 ft or 3.728 m); no flow at times.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	341	270	366	-
1971	323	303	230	290	1010	332	51.0	3260	989	2250	659	697	10394
1972	469	372	395	695	909	996	477	3556	2040	1120	897	487	12587
1973	820	698	1540	1530	645	351	132	123	434	320	482	362	7437
1974	350	268	276	207	347	1610	72.0	339	1680	931	883	648	7811
1975	523	563	431	422	5850	2090	3530	565	1550	643	1080	488	17735
MAX	820	698	1540	1530	5850	2090	3530	3530	2040	2250	1080	697	17735
MIN	323	268	230	207	347	332	51.0	123	434	320	270	362	7437
MEAN	497	441	574	669	1752	1116	852	1563	1339	934	712	508	10957
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR OF MEAN	4.5%	4.0%	5.2%	6.1%	16.0%	10.2%	7.8%	14.3%	12.2%	8.5%	6.5%	4.6%	100%

RED RIVER BASIN

07311800 South Fork Wichita River near Benjamin, Texas

LOCATION: Lat 33°38'38", long 99°48'02", Knox County, at the bridge on State Highway 6, 2 mi (3 km) downstream from the Panhandle and Santa Fe Railway Co. bridge, 4 mi (6 km) north of Benjamin, and 41 mi (66 km) upstream from its confluence with the North Fork Wichita River.

DRAINAGE AREA: 584 mi² (1,513 km²).

PERIOD OF RECORD: December 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,334.23 ft (406.673 m) above mean sea level, datum of 1929. Prior to Jan. 2, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 30,388 ac-ft/yr (37.5 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 13,000 ft³/s (368 m³/s) Oct. 18, 1960 (gage height, 15.40 ft or 4.684 m); maximum gage height, 16.48 ft (5.023 m) Oct. 18, 1966; no flow at times.

Maximum stage since at least 1903 occurred in September 1919 (stage and discharge unknown) from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	-	-	1190	-
1960	442	445	283	262	312	2000	5920	1130	930	30310	1040	855	43092
1961	667	580	1700	554	14370	1510	1650	115	1810	296	1200	441	24893
1962	455	282	310	1650	305	8840	614	214	8610	1260	1650	645	24835
1963	418	381	364	451	2600	2070	499	0	2350	840	816	337	10370
1964	298	899	302	188	491	3350	400	670	6520	336	2000	441	14932
1965	409	271	292	2050	648	113	80	11770	16130	15020	994	684	48382
1966	529	456	554	1320	289	5550	273	22160	29880	1430	740	601	63782
1967	542	387	322	8320	6990	18550	4090	581	1020	237	352	406	41797
1968	3030	1300	4660	1110	836	1320	2460	769	510	230	613	387	16766
1969	330	349	446	311	4430	927	410	1630	14910	9020	2620	1080	36094
1970	865	575	5460	1160	759	231	440	180	540	408	264	307	10591
1971	322	256	214	230	8540	1650	281	4510	1650	4920	1150	1310	25033
1972	505	446	389	9390	3800	2930	3120	8680	9470	5010	1840	740	46320
1973	1160	1340	3910	3200	870	396	932	332	3780	455	1200	366	17941
1974	289	258	298	910	1880	4660	230	131	7210	2660	1080	571	19970
1975	596	1510	620	1010	13910	4520	7660	2570	4470	631	2800	565	40862
MAX	3030	1510	5460	9390	14370	18550	7660	22160	29880	30310	2800	1310	63782
MIN	289	256	214	188	289	113	80	0	510	840	264	307	10370
MEAN	679	608	1258	2007	3014	3664	1726	3417	6781	4519	1272	643	30388
NO.	16	16	16	16	16	16	16	16	16	16	16	17	16
DISTR OF MEAN	2.2%	2.0%	4.1%	6.6%	12.6%	12.1%	5.7%	11.2%	22.3%	14.9%	4.2%	2.1%	100%

RED RIVER BASIN

07311900 Wichita River near Seymour, Texas

LOCATION: Lat 33°42'01", long 98°23'18", Baylor County, at the bridge on Ranch Road 1919, 6 mi (10 km) upstream from the head of Lake Kemp, 10 mi (16 km) downstream from the confluence of the North and South Forks, and 10.5 mi (16.8 km) northwest of Seymour.

DRAINAGE AREA: 1,874 mi² (4,864 km²).

PERIOD OF RECORD: December 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,152.7 ft (351.34 m) above mean sea level.

AVERAGE DISCHARGE: 17 years, 126,920 ac-ft/yr (155.2 hm³/yr).

EXTREMES: Period of record (1959-76): Maximum discharge, 23,100 ft³/s (654 m³/s) Sept. 20, 1965 (gage height, 17.75 ft or 5.410 m); no flow at times.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	-	-	-	13660
1960	2580	2540	1490	1020	20870	26250	29730	6000	661	90020	4260	8040	193461
1961	3070	3180	15110	3660	25450	6850	25220	7030	10210	2990	9940	1830	114540
1962	1620	1140	968	9460	1990	40410	4470	2710	35980	9360	9310	2480	119898
1963	1310	1280	2450	3780	10970	32250	5850	1460	3920	178	7120	950	71518
1964	707	6000	835	438	7430	19650	68.0	285	34060	2080	10920	1340	83813
1965	1170	886	498	24120	4450	3250	1510	21670	62400	59620	5090	3320	177984
1966	1940	1900	1700	11740	3500	18350	2690	83190	88760	5800	2550	2020	224140
1967	1620	1220	1210	39490	9030	58230	44630	2270	6570	2090	1110	1410	168880
1968	23030	9720	20880	3370	3660	12300	8720	2720	252	1640	5260	1390	92942
1969	1080	1910	3000	1660	22070	12430	402	4070	47030	27890	690	3290	125522
1970	2440	2100	21970	3270	2730	1100	122	90.0	7250	2440	553	831	44896
1971	895	694	523	591	22610	12490	1410	7330	12130	12300	2280	4180	77433
1972	1510	1280	1120	27960	40230	21240	5990	12170	36280	25980	15570	2390	191720
1973	5890	3400	18290	12520	3280	1550	8960	3250	18020	2400	3290	1350	82200
1974	1280	938	2580	4020	10400	27680	135	1440	33660	9100	3990	2250	97473
1975	2800	5180	2310	5380	29540	10710	34470	14610	19660	2280	8110	2710	137760
MAX	23030	9720	21970	39490	40230	58230	44630	83190	88760	90020	15570	13660	224140
MIN	707	694	498	438	1990	1100	68.0	90.0	252	178	553	831	44896
MEAN	3309	2711	5933	8905	13638	19046	10899	10643	26053	16011	5628	3144	125920
NO.	16	16	16	16	16	16	16	16	16	16	16	17	16
DISTR OF MEAN	2.6%	2.2%	4.7%	7.1%	10.8%	15.1%	8.7%	8.5%	20.7%	12.7%	4.5%	2.5%	100%

RED RIVER BASIN

07312000 Lake Kamp near Mabelle, Texas

LOCATION: Lat 33°46'30", long 99°09'03". Baylor County, in the outlet gate tower near the center of the dam on the Wichita River, 8.2 mi (10.0 km) north of Mabelle, and 10.2 mi (16.4 km) northeast of Seymour.

DRAINAGE AREA: 2,086 mi² (5,403 km²).

PERIOD OF RECORD: October 1922 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 1, 1972, nonrecording gage at different site and at datum 2.40 ft (0.732 m) higher.

EXTREMES: Period of record (1922-75): Maximum contents, 420,900 ac-ft (519 hm³); June 30, 1941 (elevation, 1,152.0 ft or 351.13 m, present datum); minimum contents since the first appreciable storage, 26,160 ac-ft (32.3 hm³); June 30, 1953 (elevation, 1,108.0 ft or 337.72 m, present datum).

REMARKS: The lake is formed by an earthfill dam 8,990 ft (2,710 m) long, with a capacity of 603,000 ac-ft (743.5 hm³). The original dam was completed on Aug. 25, 1923, but deliberate impoundment had begun on Oct. 1, 1922. Enlargement of the dam was completed in November 1973. The uncontrolled emergency spillway is 3,000 ft (910 m) wide and is located approximately 600 ft (180 m) to the right and slightly upstream from the right end of the dam. The controlled outlet works, near the center of the dam, consist of two hydraulically operated slide gates 5 ft, 8 inches by 13 ft (1.7 by 4 m) with a 13-foot diameter (4.0-m) conduit and spillway basin. The dam and lake are owned by the City of Wichita Falls and the Wichita County Water Improvement District No. 2.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1922	-	-	-	-	-	-	-	-	-	113	116	110
1923	156	510	1780	6160	18400	18800	23640	29360	38540	45920	242700	144100
1924	124500	163400	145000	135900	139900	129000	163400	145000	135100	137500	128200	127400
1925	184200	125200	123100	121700	168600	197200	197200	180200	186200	247800	247800	245200
1926	242700	226700	236400	245200	220700	256900	280600	276600	297300	279300	273200	266000
1927	280600	284700	283400	288900	271200	264700	284700	263400	241400	234000	235200	232700
1928	224300	214700	223100	220700	198400	227900	245200	237700	220700	208700	199500	186200
1929	186200	184200	182200	188400	181200	229100	223100	241400	219500	298700	303200	291700
1930	282000	271200	287500	282000	268600	280600	287500	254300	224300	180200	278000	278000
1931	271200	271200	291700	295900	303200	298700	300200	250900	213500	188400	213500	234000
1932	245200	250400	283400	280600	263400	250400	258200	312200	293100	262100	242700	234000
1933	275200	276600	275200	291700	283400	309200	284700	256900	258200	262100	256900	253000
1934	259500	258200	259500	267300	276600	283400	254300	281800	166700	182200	172400	189500
1935	187300	186200	182200	187300	178200	258200	271200	255600	208700	293100	300200	303200
1936	304700	303200	288900	272600	284700	268600	237700	188400	326100	327600	326100	323400
1937	319900	318400	313700	298700	301700	287500	297300	267300	293100	288900	306200	304700
1938	301700	342000	338800	340400	358000	338800	310700	309200	293100	275200	272600	266000
1939	271200	264700	272600	264700	279300	280600	239000	236400	208700	193900	162200	175200
1940	173400	175200	163100	162200	176200	183200	163100	170500	165800	159500	195000	197200
1941	197200	201800	214700	239000	384300	420900	386000	364500	366200	419200	382620	353200
1942	354800	335600	329200	374400	358000	348400	306200	287500	307700	329200	329200	334000
1943	332400	324600	319900	334000	345200	351600	310700	268600	245200	236400	226700	224300
1944	229100	232700	235200	220700	211100	213500	183200	146600	139100	152600	154300	153400
1945	159500	158600	166700	171400	162200	158600	200600	196100	208700	221900	217100	212300
1946	211100	211100	204100	193900	181200	183200	162200	150900	214700	218300	224300	247800
1947	249100	244000	242700	242700	379400	359600	335600	304700	286100	271200	271200	249100
1948	284700	293100	297300	279300	287500	313700	321400	293100	278000	276600	271200	262100
1949	263400	272600	280600	271200	313700	350000	330800	312200	338800	343600	332400	306200
1950	286100	288900	276600	275200	324600	327600	371100	361200	350000	278000	263400	258200
1951	253000	263400	262100	247800	284700	293100	263400	237700	239000	232700	230300	220700
1952	204100	192800	184200	177200	186200	156800	139900	101600	79050	63200	57320	57320
1953	54050	54500	60700	54050	43580	26160	43970	67200	58280	137500	143200	142400
1954	138300	133500	119600	129800	290300	338800	301700	271200	246500	230300	219500	218300
1955	219500	220700	224300	213500	258600	287500	271200	245200	271200	342000	332400	326100
1956	318400	319900	310700	288900	286100	259500	227900	190600	165800	164000	161300	161300
1957	157700	162200	164900	230300	361200	343600	323000	295900	278000	293100	321400	319900
1958	319900	321400	324600	283400	291700	273900	279300	256900	249100	243100	234900	229300
1959	222700	216100	198000	195000	203000	233800	239500	210000	195000	233800	230400	244300
1960	246700	247900	245500	231600	240700	250600	258000	238300	222700	324400	308400	322800
1961	322800	326000	319600	295600	302000	286500	295600	267000	270000	262500	270000	270000
1962	267000	258000	247900	250600	232700	279000	262500	236000	294000	298200	306000	308200
1963	305700	303600	294000	284000	290100	296100	270900	239000	236200	216500	217000	215700
1964	209700	217600	213400	201200	197700	205100	163500	133200	173700	174500	189100	182200
1965	183600	180100	178100	179900	182700	180900	143400	145800	181400	243300	244400	240300
1966	241900	243900	237200	246800	239100	233500	222000	291900	352200	313400	311000	303000
1967	300900	289800	275600	316400	302300	337700	333500	296700	300900	287800	285300	280800
1968	313500	325200	322500	292500	292800	291600	290400	264800	247900	240500	240500	239100
1969	234800	239900	244900	240700	268800	267400	230400	220100	274500	302200	306300	305400
1970	305000	299900	321700	312200	295600	270600	231200	197300	191400	189000	185100	180000
1971	167500	155400	140100	119400	103600	100300	75750	82780	99980	123700	124200	131000

RED RIVER BASIN

7312000 Lake Kemp near Mabelle, Texas—Continued

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1972	130300	130300	123300	130900	188600	196800	178200	173700	206700	236100	197700	194500
1973	201900	196600	222800	247000	238600	227400	207100	186800	198800	152700	153600	152500
1974	153000	152300	152800	127300	129700	137600	111000	98860	130160	143500	144900	146400
1975	126700	133300	132800	133300	169700	184600	212300	214500	227500	-	-	-
MAX	354800	342000	338800	374400	384300	420900	386000	364500	366200	419200	382620	353200
MIN	156	510	1780	6160	18400	18800	23640	29360	38540	113	116	110
MEAN	230949	231396	230941	229825	245203	251863	241607	225002	228575	231321	234724	230976
NO.	53	53	53	53	53	53	53	53	53	53	53	53
DISTR OF MEAN	8.2%	8.2%	8.2%	8.2%	8.7%	9.0%	8.6%	8.0%	8.1%	8.2%	8.3%	8.2%

RED RIVER BASIN

07312100 Wichita River near Mabelle, Texas

LOCATION: Lat 33°45'36", long 99°08'33", Baylor County, at the bridge on U.S. Highways 183 and 283, 0.3 mi (0.5 km) downstream from Lake Kemp Dam, 6 mi (10 km) north of Mabelle, and 13 mi (21 km) northeast of Seymour.

DRAINAGE AREA: 2,086 mi² (5,403 km²), all of which is above Lake Kemp Dam.

PERIOD OF RECORD: October 1958 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 1,062.72 ft (323.917 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 114,480 ac-ft/yr (141.2 hm³/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 3,800 ft³/s (108 m³/s) Apr. 3, 1974, Apr. 21, 1975 (gage height, 9.85 ft or 3.002 m); minimum daily, 0.15 ft³/s (0.004 m³/s) June 22, 1973.

REMARKS: Records good. The flow is regulated by Lake Kemp (station 07312000). Water is released from Lake Kemp to supply Lake Diversion.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	-	14020	5060	2190	-
1960	190	180	2450	10760	6020	9980	18490	21430	14890	5530	16590	250	107560
1961	219	165	33050	23080	25470	16520	13260	25650	2260	5440	2520	199	147833
1962	3250	5720	7880	5300	13280	349	17020	22570	548	2350	3150	305	81722
1963	297	1240	6400	9390	8510	12590	19930	22950	4370	14990	6360	236	107213
1964	4660	198	2340	7740	6900	11410	33640	17540	8590	258	240	5120	98636
1965	379	2610	166	8890	4430	4570	24810	15600	10840	324	906	5910	79435
1966	400	154	5210	6870	6640	18960	13900	10870	41440	42810	415	6410	154079
1967	356	7470	10750	22520	13590	10250	56780	30140	4950	12580	566	4680	174632
1968	460	282	40510	39200	5240	12340	13460	21700	11300	5310	6020	582	156404
1969	4960	551	562	2870	621	10760	26340	13030	753	752	744	3860	65803
1970	648	6590	8310	13050	15150	22780	37590	25030	9660	3220	871	3350	146249
1971	8550	7760	9090	17260	25850	17380	20910	6220	1000	1030	1040	1070	117160
1972	1810	641	4380	8130	1020	8950	16830	12750	3730	18450	60640	3180	139711
1973	8000	8770	7680	1810	6170	5460	19760	12530	10510	7740	230	260	88479
1974	470	700	2440	35300	7720	13090	20790	8840	990	500	519	330	88998
1975	26880	290	3220	5400	4790	166	8610	6310	3760	4830	2310	7370	73675
MAX	26880	8770	40510	39200	25850	22780	56780	30140	41440	42810	60640	7370	174632
MIN	470	290	166	1810	621	166	8610	6220	990	500	230	260	65803
MEAN	3766	2652	9027	13598	9513	10972	22633	17073	8044	8217	6351	2634	114480
NO.	16	16	16	16	16	16	16	16	16	17	17	17	16
DISTR OF MEAN	3.3%	2.3%	7.9%	11.9%	8.3%	9.6%	19.8%	14.9%	7.0%	7.2%	5.5%	2.3%	100%

RED RIVER BASIN

07312110 South Side Canal near Dundee, Texas

LOCATION: Lat 33°48'50", long 98°55'57", Archer County, 125 ft (38.1 m) downstream from Lake Diversion headgates, and 5.3 mi (8.5 km) northwest of Dundee.

PERIOD OF RECORD: October 1971 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,039.70 ft (315.90 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 5 years, 61,653 ac-ft/yr (176.0 hm³/yr).

EXTREMES: Period of record (1971-75): Maximum discharge, 374 ft³/s (10.6 m³/s) July 22, 1974; maximum gage height, 8.31 ft (2.53 m) July 22, 1974; no flow at times.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	-	1880	1760	1230	-
1972	1570	1190	3910	8930	4660	10770	15020	13410	6460	7120	1470	2050	76560
1973	2140	1480	1330	2250	6260	8260	18900	12090	5510	1980	770	120	60405
1974	163	540	121	2950	5170	13010	21180	11960	8150	1610	163	890	64620
1975	1560	2900	1170	4610	3530	2790	8270	6920	3650	4960	2160	3710	46230
MAX	2140	2900	3910	8930	6260	13010	21180	13410	8150	7120	2160	3710	76560
MIN	163	540	121	2250	3530	2790	8270	6920	3650	1610	770	890	46230
MEAN	1358	1406	1633	4685	4905	8708	15843	11095	5943	3510	1126	1441	61653
NO.	4	4	4	4	4	4	4	4	4	5	5	5	4
DISTR OF MEAN	2.2%	2.3%	2.6%	7.6%	8.0%	14.1%	25.7%	18.0%	9.6%	5.7%	1.8%	2.3%	100%

RED RIVER BASIN

07312200 Beaver Creek near Electra, Texas

LOCATION: Lat 33°54'21", Long 98°54'17", Wichita County, at the bridge on Farm Road 2326, 6.5 mi (10.5 km) northwest of Karnay, 8 mi (13 km) upstream from the Wichita River, and 9 mi (14 km) south of Electra.

DRAINAGE AREA: 652 mi² (1,689 km²).

PERIOD OF RECORD: March 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 891.3 ft (302.16 m) above mean sea level.

AVERAGE DISCHARGE: 16 years, 45,094 ac-ft/yr (55.6 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 17, 1961 [gage height, 33.67 ft or 10.232 m]; no flow at times.

Maximum stage since at least 1925, 36.0 ft (10.97 m) in 1941 (partly caused by deliberate demolition of the Santa Rosa Dam to avoid its failure), from information by local residents.

REMARKS: Records fair. There is some regulation by Santa Rosa Lake (capacity, 11,570 ac-ft or 14.3 hm³) located about 30 mi (48 km) upstream. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	250	162	5340	7810	3910	723	1180	27130	193	6180	-
1961	335	632	36380	2530	6900	5700	18520	777	3450	699	1620	327	77870
1962	141	71.0	130	2320	446	8170	1650	846	9080	2410	3230	955	29449
1963	44.0	47.0	1170	339	11050	10620	3530	229	1520	8.30	1280	106	29943
1964	139	1210	65.0	1360	5050	545	113	1690	13720	262	7850	126	32150
1965	863	180	40.0	3700	6520	3890	345	1020	11330	18520	49.0	122	46579
1966	16.0	397	1250	2090	231	201	8220	23880	28790	775	278	274	66402
1967	119	234	453	6160	4570	1660	19310	406	767	1360	434	148	35621
1968	7310	1230	5910	772	4910	12920	2840	1010	742	523	1740	120	40027
1969	377	3330	2270	112	5560	5260	638	5570	14700	6510	4760	801	49888
1970	518	320	10630	633	424	327	274	179	2840	356	111	44.0	16656
1971	96.0	356	105	148	422	676	320	5790	8490	8260	155	3120	27938
1972	69.0	94.0	63.0	536	4410	3290	240	738	3040	9080	18960	98.0	40618
1973	5080	2840	12860	14580	857	1890	6650	1300	4030	3140	1130	243	54600
1974	177	271	2440	2930	1410	1570	550	978	6450	3880	895	379	21930
1975	950	3030	481	2140	24990	4070	44700	8800	3860	1310	1260	1360	96951
MAX	7310	3330	36380	14580	24990	12920	44700	23880	28790	27130	18960	6180	96951
MIN	16.0	47.0	40.0	112	231	201	113	179	742	8.30	49.0	44.0	16656
MEAN	1082	949	4656	2533	5193	4287	6988	3371	7124	5264	2747	900	45094
NO.	15	15	16	16	16	16	16	16	16	16	16	16	15
DISTR OF MEAN	2.4%	2.1%	10.3%	5.6%	11.5%	9.5%	15.5%	7.5%	15.8%	11.7%	6.1%	2.0%	100%

RED RIVER BASIN

07312500 Wichita River at Wichita Falls, Texas

LOCATION: Lat 33°54'34", long 98°32'00", Wichita County, at the bridge on Beverly Drive in Wichita Falls, 4 mi (6 km) upstream from the Ft. Worth and Denver Railway Co. bridge, and 8.4 mi (13.5 km) upstream from Holliday Creek.

DRAINAGE AREA: 3,140 mi² (8,130 km²), of which 2,086 mi² (5,403 km²) is above Lake Kemp Dam.

PERIOD OF RECORD: April 1938 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 924.28 ft (281.714 m) above mean sea level, datum of 1929. February 1900 to February 1902 and Oct. 1, 1910 to Dec. 31, 1911, nonrecording gages at a site 4 mi (6 km) downstream at different datum. Mar. 30, 1956 to Dec. 1, 1959, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 41 years (1900-02, 1938-75), 222,569 ac-ft/yr (274.4 hm³/yr).

EXTREMES: Period of record (1900-02, 1938-75): Maximum discharge, 17,800 ft³/s (504 m³/s) Oct. 3, 1941 (gage height, 24.0 ft or 7.32 m); no flow Oct. 11, 1960 (due to the construction of a cofferdam upstream).

Maximum discharge, 50,000 ft³/s (1,420 m³/s) June 8, 1915.

REMARKS: Records good. The flow from 2,086 mi² (5,403 km²) is regulated by Lake Kemp (capacity, 603,000 ac-ft or 743.5 hm³) located 71 mi (114 km) upstream. The flow is partly regulated by five major reservoirs (combined capacity, 683,970 ac-ft or 843.3 hm³). Since completion of the dam in 1923, no flow has been permitted to pass over the spillway. Water is diverted from Lake Diversion (capacity, 40,000 ac-ft or 49.3 hm³) 51 mi (82 km) upstream for irrigation; 42,000 acres (17,000 hm²) are under permit in the vicinity of Wichita Falls.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	9530	78550	124200	72600	142000	74400	133900	137700	56110	6700	-
1901	2560	1880	1480	1180	217700	32550	4590	8060	26180	621	405	387	297593
1902	301	-	-	-	-	-	-	-	-	-	-	-	-
1903	-	-	-	-	-	-	-	-	-	-	-	-	-
1904	-	-	-	-	-	-	-	-	-	-	-	-	-
1905	-	-	-	-	-	-	-	-	-	-	-	-	-
1906	-	-	-	-	-	-	-	-	-	-	-	-	-
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	-	-	-	-	-	-	-	-	-	-	-	-	-
1925	-	-	-	-	-	-	-	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	10450	124400	101000	16530	16140	6520	4120	3460	2720	-
1939	6280	2330	13480	3420	11360	9580	9850	23150	6730	4040	3520	2860	96600
1940	2670	2560	3270	10840	19610	12600	11790	17930	6850	7710	44180	5660	145670
1941	4540	23680	4470	22820	252408	266300	45370	16780	13740	247000	67240	16280	980620
1942	6050	19490	5600	61330	21760	11780	7210	6050	5200	20580	9740	4980	179770
1943	2740	2500	6250	28120	15720	10720	14040	10390	5270	4600	3310	4400	108060
1944	3820	4480	4440	3820	4720	4220	6780	21000	4310	21790	3410	3330	76120
1945	3990	3930	31220	19770	5750	15540	19680	5370	28200	24660	2730	2440	163280
1946	2780	2850	2600	2520	4380	4740	4480	9040	22860	10030	8190	31350	105820
1947	2840	2140	2510	12360	125800	34550	9140	8260	5900	4650	4850	8910	221910
1948	2650	5160	4680	4140	30350	32420	13440	11310	4730	8510	2880	3810	124080
1949	5160	16700	5500	2870	18730	15130	7570	7930	13840	14400	9930	25490	143250

RED RIVER BASIN

7312500 Wichita River at Wichita Falls, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	24100	10310	4740	11820	61400	14860	50740	171600	155900	89020	12060	6650	613200
1951	4530	4450	6170	5370	52930	12330	9750	15090	11350	11160	6390	3430	142950
1952	3090	3800	3830	6200	12250	5430	11610	10810	9460	5110	4640	3570	79800
1953	2370	1950	6360	3230	6050	6490	9530	10360	4250	46850	9370	3140	109950
1954	2890	2370	3630	8890	87820	39710	6470	7460	5930	6060	4930	4440	180600
1955	4130	4870	6600	3970	52910	57070	11780	10840	57530	206300	25730	7860	449590
1956	5480	3510	4000	6150	20970	5970	8170	7090	6210	13820	3670	8020	93060
1957	2060	5900	9560	27840	220700	131100	17320	10630	10180	11150	26910	3640	476990
1958	3310	12740	6010	28800	85270	8990	11450	9190	8380	4540	4300	4030	187010
1959	2770	2680	4070	6030	11200	34190	15930	7620	8380	64530	8600	16930	182930
1960	4440	4190	2600	5930	9920	19830	15950	8860	9160	55170	19710	15600	171360
1961	3870	3500	60650	36950	24250	26760	29280	12520	12210	5000	5900	2990	223880
1962	3130	2570	4470	8940	6420	29030	12860	7610	27850	6250	6820	6120	122070
1963	2150	2000	4010	5690	9310	23390	12290	8480	6800	4100	5730	2590	86540
1964	2070	3850	2600	15270	19300	6390	7130	9510	29810	6140	14960	3080	120110
1965	5140	3110	2280	8210	18480	14080	6920	7460	16140	24010	2550	3100	111480
1966	2020	2480	4590	17580	5900	5890	19170	39910	83530	53230	4990	3640	242930
1967	3770	4060	5060	52140	19940	11250	56410	26420	8810	5030	6600	4030	203520
1968	18830	6470	37920	38520	12000	18760	14780	8570	6250	4540	7300	3610	177550
1969	3050	9400	11480	3400	24300	12670	8520	15070	25320	11300	8440	4570	137520
1970	3840	2340	22370	17280	7800	7370	8580	10250	13220	4700	3250	3050	104050
1971	2860	3270	3310	5820	7180	6840	12910	50720	30410	37800	4420	9910	175450
1972	3600	2780	2760	5260	13600	10790	4680	5890	7690	21840	106200	9100	194190
1973	17530	24060	22670	29870	7120	8800	12670	8510	17520	39650	7070	2180	197650
1974	1390	2040	3570	9770	11300	6140	6730	7680	17630	23730	10910	1970	102860
1975	3330	6770	1650	5190	65990	18780	73880	26090	9600	6190	4160	4560	226190
MAX	24100	24060	60650	78550	252400	266300	142000	171600	155900	247000	106200	31350	980620
MIN	301	1880	1480	1180	4380	4220	4480	5370	4250	621	405	387	76120
MEAN	4670	5873	8769	15908	46280	29166	19200	18501	22094	31941	13639	6528	222569
NO.	39	38	39	40	40	40	40	40	40	40	40	40	38
DISTR													
OF MEAN	2.1%	2.6%	3.9%	7.1%	20.8%	13.1%	8.6%	8.3%	9.9%	14.4%	6.1%	2.9%	100%

RED RIVER BASIN

07312700 Wichita River near Charlie, Texas

LOCATION: Lat 34°03'11", long 96°17'47", Clay County, at the bridge on Farm Road 810, 3.0 mi (4.8 km) southeast of Charlie, and 5.7 mi (9.2 km) northwest of Petrolia.

DRAINAGE AREA: 3,439 mi² (8,907 km²), of which 2,086 mi² (5,403 km²) is above Lake Kemp Dam and 143 mi² (370 km²) is above Lake Wichita Dam.

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 872.71 ft (266.002 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 219,166 ac-ft/yr (270.2 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 6,090 ft³/s (172 m³/s) Nov. 4, 1972 (gage height, 21.21 ft or 6.465 m); minimum, 25 ft³/s (0.71 m³/s) Feb. 4, 1974.

REMARKS: Records good. The flow is partly regulated by five major reservoirs with a combined capacity of 883,970 ac-ft (843.3 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	6760	9180	6060	-
1968	26300	9290	45130	47930	19620	24950	19480	10920	9200	8120	13570	6910	241420
1969	5260	16360	20830	7970	36790	18610	11280	17300	30830	14490	11340	7460	198520
1970	6620	4460	24560	20550	15580	11620	10800	12340	18710	6230	5630	6220	143320
1971	6240	6000	5450	9490	8990	8730	10540	46140	38440	49290	9050	19700	218060
1972	8140	4380	4310	7320	17880	14200	5690	8790	10980	22450	130500	13720	248360
1973	22970	28810	30120	42290	11490	20520	20000	15700	25070	47720	13430	7280	265400
1974	2830	3830	6770	12280	20400	8750	8700	13040	23210	27950	15820	4250	147830
1975	7120	11400	4970	8720	77660	39660	68760	39230	16830	10030	9160	9520	303060
MAX	26300	28810	45130	47930	77660	39660	68760	46140	38440	49290	130500	19700	303060
MIN	2830	3830	4310	7320	8990	8730	5690	8790	9200	6230	5630	4250	143320
MEAN	10685	10566	17768	19569	26051	18380	19406	20433	21659	21449	24187	9013	219166
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR													
OF MEAN	4.9%	4.8%	8.1%	8.9%	11.9%	8.4%	8.9%	9.3%	9.9%	9.8%	11.0%	4.1%	100%

RED RIVER BASIN

07314000 Lake Kickapoo near Archer City, Texas

LOCATION: Lat 33°39'47", long 98°46'43", Archer County, on the intake tower near the left end of the dam on the North Fork Little Wichita River, 8.2 mi (13.2 km) south of Mankins, and 9.2 mi (14.8 km) northwest of Archer City.

DRAINAGE AREA: 275 mi² (712 km²).

PERIOD OF RECORD: February 1948 to December 1975.

GAGE: Nonrecording gage read twice daily prior to Feb. 17, 1974, once daily thereafter. Datum of gage is at mean sea level. Prior to Oct. 8, 1946, water-stage recorder at same site and datum.

EXTREMES: Period of record (1948-75): Maximum contents, 134,300 ac-ft (166 hm³) Aug. 2, 1950 (elevation, 1,049.2 ft or 319.80 m); minimum contents since the first filling in July 1950, 35,660 ac-ft (44.0 hm³) June 30, 1953 (elevation, 1,020.8 ft or 313.88 m).

REMARKS: The lake is formed by a rolled earthfill dam 8,200 ft (2,500 m) long, including a 483-foot wide (147 m) reinforced concrete ogee-type uncontrolled spillway near the right end of the dam. The capacity of the lake is 106,000 ac-ft (130.7 hm³). The dam was completed on Dec. 15, 1945 and storage began on Feb. 1, 1946. The service outlet consists of two gate-controlled 4- by 5-foot (1.2- by 1.5-m) conduits. The dam and lake are owned by the City of Wichita Falls.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1946	-	1000	1840	1500	1400	1300	1200	1980	24600	25340	30640	41840
1947	41180	40190	39200	40520	66050	64250	62900	59420	56880	56060	56060	57700
1948	56470	57700	57290	54420	53210	60710	58560	55240	51650	49330	47480	46000
1949	47850	50090	50090	48220	56060	64700	60710	58560	61140	62450	60280	59420
1950	58990	57700	54010	56470	75460	74940	107300	107300	106600	102200	98480	96650
1951	94820	92420	91830	88290	92420	90650	84850	78150	77050	74420	71820	69860
1952	68900	66980	64250	62900	63800	58990	55650	51260	46520	43900	42500	42170
1953	40520	39200	42500	41180	40190	35660	40190	40850	37700	65600	66050	64700
1954	63800	62000	59420	61140	80350	83710	76500	70820	66980	62900	61140	61140
1955	61570	62000	61570	61140	75460	101600	96650	91240	109200	103500	100300	97870
1956	96040	94820	91830	87700	90650	84850	79250	72340	67460	68420	66500	65150
1957	63800	65600	68420	95430	107300	105400	101000	94820	91830	98480	106600	103500
1958	102200	101600	101600	101600	105400	101000	106600	102800	101600	98480	96040	93600
1959	91830	90060	86560	83140	84280	89470	85420	80350	77600	88880	85990	87700
1960	87700	87130	84850	82000	82570	79250	75980	70820	67940	79250	76500	77050
1961	75460	75460	79800	75460	81450	79800	79250	73380	77050	73900	73380	72340
1962	70340	68420	66980	66500	64250	75460	72340	66500	100300	107300	110600	104700
1963	100300	99700	97260	97260	96650	100300	91240	87130	84280	79800	79250	77600
1964	76500	75460	74940	71300	72860	74940	66980	63800	75980	73380	76500	75460
1965	74420	73900	71820	71300	75980	74940	67940	63350	61570	63800	62000	60280
1966	57700	57700	55650	69860	68420	63350	63800	73900	91830	88290	85420	82000
1967	81450	79250	76500	80350	77050	76500	77050	71300	70820	67460	66050	65150
1968	74940	73900	83140	87700	91830	90650	95430	91830	84850	82000	80900	81450
1969	79800	80350	86560	84850	96650	96650	91240	87130	102200	100300	98480	97870
1970	97870	97260	104100	102800	104700	101000	96040	90650	88880	87700	86560	82000
1971	81450	79250	78150	75980	72860	71300	67460	96650	101590	104100	101600	102800
1972	101000	99700	97260	94820	99090	97260	93600	88290	87700	91240	106600	104700
1973	107300	106600	108000	108000	105400	104100	97260	97870	96650	95430	94820	93600
1974	90060	90650	88880	87700	89470	93010	87700	84850	99700	102200	103500	102200
1975	101600	102200	99700	99700	110600	108600	109200	107300	106000	104700	104100	97260
MAX	107300	106600	108000	108000	110600	108600	109200	107300	109200	107300	110600	104700
MIN	40520	1000	1840	1500	1400	1300	1200	1980	24600	25340	30640	41840
MEAN	77443	74276	74133	74641	79395	80145	78310	75996	79138	80027	79871	78792
NO.	29	30	30	30	30	30	30	30	30	30	30	30
DISTR OF MEAN	8.3%	8.0%	8.0%	8.0%	8.5%	8.6%	8.4%	8.2%	8.5%	8.6%	8.6%	8.5%

RED RIVER BASIN

07314500 Little Wichita River near Archer City, Texas

LOCATION: Lat 33°39'45", long 96°36'46", Archer County, at the bridge on State Highway 79, 1.5 mi (2.4 km) downstream from the confluence of the North and Middle Forks, and 4.8 mi (7.7 km) north of Archer City.

DRAINAGE AREA: 481 mi² (1,246 km²).

PERIOD OF RECORD: June 1932 to December 1955, September 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 934.72 ft (284.803 m) above mean sea level, datum of 1929. Aug. 17, 1954 to Jan. 6, 1956, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 34 years (1932-55, 1966-75), 50,231 ac-ft/yr (61.9 hm³/yr).

EXTREMES: Period of record (1932-55, 1966-75): Maximum discharge, 17,300 ft³/s (507 m³/s) Oct. 31, 1941 (gage height, 26.18 ft or 7.980 m); no flow at times.

Flood of June 1930 reached a stage of about 28 ft (8.5 m), from information by the State Highway Department.

REMARKS: Records good. There is some regulation by Lake Kickapoo (station 07314000) on the North Fork Little Wichita River since 1945.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	-	-	-	-	-	4770	12720	99.0	7400	29.0	0	25290	-
1933	127	7.30	5500	2740	49090	40.0	379	5730	5110	8.50	531	1270	70533
1934	514	5070	13460	2390	86.0	515	0	134	6440	539	25210	89.0	54447
1935	28	41.0	14600	1480	41160	28570	8010	119	5950	3930	479	133	104472
1936	40	0	0	20.0	12060	2660	2110	0	98720	2920	24.0	15.0	118529
1937	6.10	5.60	9990	4010	1150	2360	21.0	2950	147	5650	568	560	27418
1938	5680	16090	15600	1250	8850	22080	696	36.0	0	0	985	1.80	71269
1939	2660	245	1230	684	5790	2690	2950	6340	75.0	6830	183	406	30083
1940	1.20	1420	3.00	7320	15440	17660	7630	5010	0	0	6020	1770	62274
1941	76.0	13010	502	12900	44870	46790	5350	10270	8220	87100	23620	4680	257388
1942	4.00	5.60	83.0	67980	414	2740	14.0	257	885	15670	8270	2670	98993
1943	61.0	5.80	3600	12020	2180	2910	956	0	0	354	0	371	22458
1944	943	3970	1100	271	1190	4120	528	802	359	8800	880	383	23346
1945	650	3380	20990	17050	189	489	17380	287	5510	8760	0	0	74685
1946	25.0	138	189	101	52.0	68.0	13.0	121	7420	2360	6290	10350	27127
1947	7.70	0	203	3470	15820	18.0	1920	80	22.0	3430	1710	1950	28551
1948	1270	628	243	175	1690	6420	2270	850	202	22.0	16.0	382	14168
1949	583	1020	436	154	11710	9110	34.0	352	2900	3470	2.40	193	29964
1950	362	6.98	0	3050	9230	1870	17360	82180	11480	120	34.0	6.70	125702
1951	9.7	42.0	19.0	327	7080	3990	801	216	747	212	259	0	13703
1952	55.0	33.0	215	93.0	1730	29.0	30.0	380	480	0	117	307	3469
1953	0	0	851	183	372	0	1060	723	105	19280	398	22.0	22994
1954	0	0	6.40	4430	15310	3900	15.0	70.0	0	416	84.0	300	24531
1955	438	943	606	1430	5130	6570	156	16.0	30460	18230	0	0	63979
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	7520	281	4.70	4.40	-
1967	0	0	0	1000	1560	968	229	0	2840	94.0	164	230	7085
1968	6020	1310	4490	2610	7210	834	3200	114	35.0	147	2370	108	28448
1969	22.0	2790	6740	516	11610	1080	7.60	94.0	8400	1220	185	1950	34615
1970	404	721	5480	457	1020	98.0	5.10	11.0	196	164	30.0	41.0	8627
1971	43.0	81.0	3.00	0	220	387	395	8810	4250	2700	6.00	2310	19205
1972	21.0	2.00	0	825	5950	833	64.0	27.0	204	2260	5370	113	15669
1973	3490	718	5960	4020	496	219	5260	362	2090	595	126	3.20	23339
1974	4.40	84.0	5.50	336	1680	1320	0	1610	10160	3540	4880	17.0	23637
1975	219	1070	493	379	32060	25890	3990	533	432	2.00	13.0	81.0	65162
MAX	6020	16090	20990	67980	49090	46790	17380	82180	98720	87100	25210	25290	257388
MIN	0	0	0	0	52.0	0	0	0	0	0	0	0	3469
MEAN	741	1651	3519	4802	9762	6121	2896	3894	6728	5857	2613	1647	50231
NO.	32	32	32	32	32	33	33	33	34	34	34	34	32
DISTR OF MEAN	1.5%	3.3%	7.0%	9.6%	19.4%	12.2%	5.8%	7.8%	13.4%	11.7%	5.2%	3.3%	100%

RED RIVER BASIN

07314800 Lake Arrowhead near Henrietta, Texas

LOCATION: Lat 33°45'51", long 96°22'17", Clay County, at the intake tower near the center of the dam on the Little Wichita River, 2.3 mi (3.7 km) upstream from Lake Creek, 11 mi (18 km) southwest of Henrietta, and 12.3 mi (19.8 km) southeast of Wichita Falls.

DRAINAGE AREA: 822 mi² (2,129 km²).

PERIOD OF RECORD: June 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 0.40 ft (0.122 m) below mean sea level, datum of 1929.

EXTREMES: Period of record (1967-75): Maximum contents, 246,300 ac-ft (304 hm³) July 28, 30, 1975 (gage height, 925.40 ft or 282.062 m); minimum contents since the first appreciable storage, 4,640 ac-ft (5.72 hm³) Aug. 31 to Sept. 4, 1967.

REMARKS: The lake is formed by a rolled-fill earthen dam 15,900 ft (4,846 m) long, including an uncontrolled reinforced concrete ogee spillway 1,581 ft (482 m) wide located near the left end of the dam. The capacity of the lake is 262,100 ac-ft (332.2 hm³). The dam was completed in December 1966 and storage began in June 1967. The service outlet works, located in a cylindrical service tower at the upstream side of the dam, consist of two gated 5-ft diameter (2-m) inlets that can be used for controlled releases. The dam is owned by the City of Wichita Falls.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1967	0	0	0	0	0	7070	6040	4640	10320	9330	9120	9130
1968	23260	23550	40070	42200	58800	58390	59740	56380	54970	53630	57530	56150
1969	55930	61330	80080	81800	118400	115000	107200	103900	118300	117800	116300	120500
1970	121900	123300	133300	136800	136400	132900	122900	113200	110500	107200	103600	101900
1971	101600	98000	95000	91530	87010	81220	75690	88300	93650	97260	94840	104300
1972	102100	102100	98400	101000	146100	142500	134600	128600	125500	133900	141200	139300
1973	150600	152800	158500	170200	164900	164100	170100	163400	166400	166500	170500	165300
1974	164100	162900	160200	156500	151500	146100	136700	133600	154400	157600	163500	162900
1975	162900	164700	163700	161400	211800	238200	245500	241200	239500	232200	227500	227000
MAX	164100	164700	163700	170200	211800	238200	245500	241200	239500	232200	227500	227000
MIN	0	0	0	0	0	7070	6040	4640	10320	9330	9120	9130
MEAN	98043	98742	103250	104603	119434	120609	117608	114802	119282	119491	120454	120720
NO.	9	9	9	9	9	9	9	9	9	9	9	9
DISTR												
OF MEAN	7.2%	7.3%	7.6%	7.7%	8.8%	8.9%	8.7%	8.5%	8.8%	8.8%	8.9%	8.9%

RED RIVER BASIN

07314900 Little Wichita River above Henrietta, Texas

LOCATION: Lat 33°49'36", long 98°14'23", Clay County, at the bridge on U.S. Highways 82 and 287, 1.0 mi (1.6 km) downstream from Duck Creek, 2.8 mi (4.5 km) west of Henrietta, 6.6 mi (10.6 km) upstream from Turkey Creek, and 7.6 mi (12.2 km) upstream from the Dry Fork Little Wichita River.

DRAINAGE AREA: 1,037 mi² (2,686 km²).

PERIOD OF RECORD: January 1953 to December 1975. Prior to October 1974, published as "near Henrietta".

GAGE: Water-stage recorder and concrete control. Datum of gage is 831.57 ft (253.463 m) above mean sea level, datum of 1928. Prior to June 26, 1953, nonrecording gage. Prior to July 11, 1975, at site 2.6 mi (4.2 km) downstream at same datum.

AVERAGE DISCHARGE: 23 years, 58,213 ac-ft/yr (71.8 hm³/yr).

EXTREMES: Period of record (1953-75): Maximum discharge, 7,620 ft³/s (216 m³/s) May 1, 1966 (gage height, 18.28 ft or 5.572 m); maximum gage height, 18.36 ft (5.596 m) May 2, 1967; no flow at times each year.

Flood in 1908 reached a stage of about 21 ft (6.4 m), from information by the State Highway Department.

REMARKS: Records good. Two major reservoirs, Lake Kickapoo and Lake Arrowhead, with a combined capacity of 368,100 ac-ft (453.9 hm³) largely affect the flow at the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	0	0	2200	0	956	0	2620	1010	240	64580	3430	333	75153
1954	0	0	0	7040	55600	16210	299	0	0	460	0	297	79492
1955	402	1590	955	2930	16760	19990	849	540	39020	39920	820	0	122503
1956	367	150	0	0	10740	2890	0	131	460	4790	2010	1780	22769
1957	20	2410	4150	50100	201600	41210	408	220	406	6340	50840	478	357944
1958	274	700	754	1020	20680	204	5860	518	1230	243	680	260	30929
1959	0	0	267	493	1960	22820	4620	220	1950	23800	673	5830	62415
1960	2320	8360	1040	160	404	1300	620	0	1120	11220	170	5410	31980
1961	789	1600	2520	900	380	7450	897	202	5690	847	6460	1180	28915
1962	0	0	8490	2470	4210	26940	4770	910	28820	5740	19010	36250	130310
1963	276	710	1300	3600	1320	2360	351	0	597	2220	2430	205	14666
1964	581	5740	225	2580	3410	5900	0	1610	15970	291	4580	620	40949
1965	1020	616	20	2470	11750	6690	0	4460	1490	2620	0	0	31116
1966	0	0	1470	45390	54990	0	752	9630	32370	3850	0	0	148452
1967	0	0	0	6680	1020	2570	176	0	0	0	0	0	10446
1968	2300	550	5260	1190	4110	1540	0	0	0	0	1180	179	15814
1969	0	2340	9230	230	7950	354	60	600	3470	700	96	1030	24483
1970	512	158	4080	748	944	912	0	0	132	0	0	0	7486
1971	0	0	0	0	0	206	0	2330	623	1530	0	3070	7759
1972	0	0	0	131	5580	289	293	760	129	2200	3520	0	12218
1973	2510	1450	4880	1860	520	559	2370	107	530	1010	2250	10	17578
1974	0	8470	259	610	1690	242	0	0	11660	1570	4420	0	19811
1975	0	815	191	497	33740	1780	1800	720	6150	3740	0	0	45693
MAX	2510	8360	9230	50100	201600	41210	5860	9630	39020	64580	50840	38250	357944
MIN	0	0	0	0	0	0	0	0	0	0	0	0	7486
MEAN	494	1097	1687	5661	19124	7062	1160	909	6579	7517	4397	2526	58213
NO.	23	23	23	23	23	23	23	23	23	23	23	23	23
DISTR OF MEAN	1.6%	1.9%	2.9%	9.7%	32.9%	12.1%	2.0%	1.6%	11.3%	12.9%	7.6%	4.3%	100%

RED RIVER BASIN

07315200 East Fork Little Wichita River near Henrietta, Texas

LOCATION: Lat 33°48'46", long 98°05'06", Clay County, at the bridge on U.S. Highway 82, 5.8 mi (9.3 km) upstream from the Little Wichita River, 6.4 mi (10.3 km) east of Henrietta, and 8.9 mi (14.3 km) west of Ringgold.

DRAINAGE AREA: 178 mi² (461 km²).

PERIOD OF RECORD: December 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 825.32 ft (251.558 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 16,135 ac-ft/yr (19.9 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 15,500 ft³/s (439 m³/s) May 12, 1972 (gage height, 28.85 ft or 8.793 m); no flow for many days most years.

Maximum stage since at least 1920, that of May 12, 1972.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	-	-	0.60	-
1964	11.0	64.0	3.00	106.0	108.0	26.0	0	354	458	14.0	126.0	18.0	4348
1965	2.0	9.9	2.40	1.20	337.0	248.0	7.20	65.0	146	87.0	0.60	0	6749
1966	0	0	454	1587.0	463.0	595	2.0	194.0	543.0	96.0	1.80	1.10	29018
1967	0.60	0	0	15.0	179.0	711.0	132	0.10	105	0.40	0.10	0	9153
1968	153.0	98.0	859.0	89.0	539.0	791	16.0	58.0	50.0	2.00	30.0	15.0	16921
1969	0.60	737	742.0	278.0	820.0	48.0	0.30	0	234	2.90	1.40	134.0	20764
1970	129	653	180.0	128.0	647.0	237	0.04	0	284	77.0	1.10	0	10931
1971	0	0.30	0.10	0	0	0	0	113.0	152.0	529	0	262.0	5799
1972	0	0	0	682	2171.0	269	2.00	0	144	264.0	333.0	5.40	28782
1973	231.0	775	73.0	631.0	70.0	563.0	754.0	254.0	544	540	579.0	129	32251
1974	24.0	383	45.0	124	511	3.20	0.50	0.70	163.0	670	216.0	6.60	5558
1975	77.0	415.0	707	762	1294.0	350.0	127.0	70.0	167	0.80	11.0	18.0	23673
MAX	2310	4150	8590	15870	21710	7110	7540	2540	5430	2640	5790	2620	32251
MIN	0	0	0	0	0	0	0	0	50.0	0.40	0	0	4348
MEAN	340	572	1591	2414	5513	1724	747	562	893	368	1071	320	16135
NO.	12	12	12	12	12	12	12	12	12	12	12	13	12
DISTR OF MEAN	2.1%	3.5%	9.9%	15.0%	34.2%	10.7%	4.6%	3.5%	5.5%	2.4%	6.6%	2.0%	100%

RED RIVER BASIN

07315400 Little Wichita River near Ringgold, Texas

LOCATION: Lat 33°53'55", long 98°04'05", Clay County, at a bridge on an abandoned county road, 2 mi (3.2 km) downstream from the East Fork Little Wichita River, 8 mi (12.9 km) northwest of Ringgold, 11.5 mi (18.5 km) upstream from the mouth, and 13 mi (20.9 km) downstream from the gaging station near Henrietta (station 07315200).

DRAINAGE AREA: 1,350 mi² (3,496 km²).

PERIOD OF RECORD: March 1959 to September 1965.

GAGE: Water-stage recorder. Datum of gage is 791.3 ft (241.2 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 7 years, 77,722 ac-ft/yr (95.8 hm³/yr).

EXTREMES: Period of record (1959-65): Maximum discharge, 4,120 ft³/s (116.7 m³/s) June 24, 1959 (gage height, 27.63 ft or 8.4 m); no flow for many days most years.

Maximum stage since 1908, about 31 ft (9.4 m) in 1915, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	274	428	2200	38540	4860	93.0	5090	38890	1230	12960	-
1960	5520	13130	1940	184	421	1680	1580	0	1160	16290	105	8240	50250
1961	2010	1830	3020	2180	3150	14410	1050	363	5680	1190	10680	3760	49323
1962	31.0	1.80	0	4990	3680	39610	10600	216	43750	5720	26310	49780	184689
1963	431	111	1350	4190	1880	3150	533	4.00	357	2220	2930	292	17448
1964	813	5940	214	3110	6090	8110	0	1920	18210	600	6340	126	51473
1965	1380	1330	7.10	1930	22570	13530	7.70	7190	1660	-	-	-	-
MAX	5520	13130	3020	4990	22570	39610	10600	7190	43750	38890	26310	49780	184689
MIN	31.0	1.80	0	184	421	1680	0	0	357	600	105	126	17448
MEAN	1698	3724	972	2430	5713	17004	2662	1398	10844	10818	7933	12526	77722
NO.	6	6	7	7	7	7	7	7	7	6	6	6	5
DISTR OF MEAN	2.2%	4.8%	1.3%	3.1%	7.4%	21.9%	3.4%	1.8%	14.0%	13.9%	10.2%	16.1%	100%

RED RIVER BASIN

07315500 Red River near Terral, Oklahoma

LOCATION: Lat 33°52'43", long 97°56'03", Jefferson County, Oklahoma, at the bridge on U.S. Highway 81, 0.5 mi (0.8 km) downstream from the Chicago, Rock Island, and Pacific Railroad Co. bridge, 1.2 mi (1.9 km) south of Terral, Oklahoma, and 3.6 mi (5.8 km) downstream from the Little Wichita River.

DRAINAGE AREA: 28,723 mi² (74,293 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: January 1938 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 770.31 ft (234.790 m) above mean sea level, datum of 1929. Prior to Jan. 12, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 38 years, 1,821,888 ac-ft/yr (1,999.8 hm³/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 197,000 ft³/s (5,580 m³/s) June 8, 1941 [gage height, 28.12 ft or 8.571 m]; minimum, 43 ft³/s (1.22 m³/s) Mar. 15, 1939.

Maximum stage since at least 1891, that of June 8, 1941.

REMARKS: Records good. There is some regulation by nine major upstream reservoirs in Oklahoma and Texas with a combined capacity of 1,402,000 ac-ft (1,728.7 hm³). There are many small diversions for irrigation, oilfield, and municipal uses upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	48900	279000	238000	132900	649700	495500	65390	42680	22310	9950	13680	5610	2003620
1939	64990	10420	51560	28190	62290	233100	64090	86070	9460	24060	6100	6600	666930
1940	4710	10810	4060	45770	135300	102900	145200	137600	69090	7320	160400	58220	881380
1941	30470	175300	35460	161300	1744000	2234000	247200	151500	148600	1407000	548700	146000	7029530
1942	76280	58800	63160	982800	232000	196900	33860	85560	206900	406700	186300	91600	2620860
1943	74740	35350	52060	236500	659200	247400	55480	14020	11110	10250	7790	21770	1425670
1944	34110	41360	71620	65500	43810	236000	57900	34990	154900	46730	47410	884220	
1945	61310	73080	475700	435500	89210	190800	262700	75650	256100	389900	25430	24000	2359360
1946	66710	71240	36190	27250	73600	145800	58920	16150	152700	148800	77250	196100	1070710
1947	28400	16470	19120	363900	1376000	309300	54430	17070	9710	22510	25320	87540	2329770
1948	19340	57990	140200	47750	128500	206900	85470	39660	7560	10320	11920	8520	764130
1949	24520	192000	47810	23780	495300	349700	36620	21070	110400	73280	23930	33630	1432040
1950	40010	84890	18140	40440	458300	197400	496600	569800	470500	140700	29480	27800	2574060
1951	26460	44820	37010	33130	1180000	691100	209800	47240	37490	37760	34790	14980	2394580
1952	19080	15690	23670	71370	310400	85720	40760	13660	11400	6650	7880	10110	616390
1953	6680	7550	33280	48750	25000	59520	80510	81480	11440	491500	114100	59380	1019190
1954	18430	12440	11530	53780	893000	206100	17890	16540	8710	8490	6690	8190	1263790
1955	9470	12000	19720	10770	840300	467300	94190	39740	196300	928600	70860	30350	2719420
1956	25440	26750	14780	14130	252100	86140	39080	11330	6510	74460	40930	15410	607060
1957	6500	17700	38880	726400	2679000	968400	78200	44100	38860	87800	202500	26070	4914410
1958	35260	39620	60010	102300	323700	93310	135600	34560	18400	11500	7540	9390	871190
1959	11970	11650	8100	47690	295400	271100	252300	50680	70920	387400	68640	216200	1692050
1960	111100	158800	69600	40930	70080	268600	172900	38690	34930	621200	89280	143800	1819910
1961	73610	71720	173100	131600	74540	299000	137900	32410	89190	31030	108400	42320	1264820
1962	28750	32700	23350	69390	93440	760100	106000	73560	186400	66590	75780	120800	1636860
1963	27190	28430	29120	95940	44880	228200	29290	13080	28170	10560	17340	11030	563230
1964	9580	50020	14220	24360	62890	82580	9730	17600	102700	32360	161800	24330	592170
1965	23000	17940	13200	55630	86500	196600	44030	23590	253800	342600	44200	47590	1148680
1966	27240	30200	30580	130600	138400	30790	21500	180200	284100	99080	14400	11760	998850
1967	10830	10330	10600	245800	59800	86810	134400	41710	32710	16170	15770	10470	674800
1968	80530	32900	112900	71290	203000	347800	126800	52160	94060	69170	77360	35000	1302970
1969	21060	90530	130400	44060	527600	121400	21140	59610	223900	44100	34640	22060	1340500
1970	22460	14540	94260	64130	86760	41750	10330	9560	75960	13770	7720	7820	449060
1971	8550	9440	6610	8420	8250	63620	15080	199000	258700	132900	71770	138900	921540
1972	31020	16770	12200	22750	219600	57060	29700	11670	33970	62250	356200	28830	882020
1973	159700	65390	270900	545400	95460	329500	55590	103700	195800	173500	92560	29930	2117430
1974	20810	23490	107200	37220	278700	76740	11930	26700	254000	129000	223900	39850	1229540
1975	58010	182200	95490	83770	651000	558900	470100	226300	92790	37080	57080	36280	2549000
MAX	159700	279000	475700	982800	2679000	2234000	496600	569800	470500	1407000	548700	216200	7029530
MIN	4710	7550	4060	8420	8250	30790	9730	9560	6510	6650	6100	5610	449060
MEAN	38611	56061	70881	141347	411763	305943	105490	72123	109633	176856	83294	49886	1621688
NO.	38	38	38	38	38	38	38	38	38	38	38	38	38
DISTR													
OF MEAN	2.4%	3.5%	4.4%	8.7%	25.4%	18.9%	6.5%	4.4%	6.8%	10.9%	5.1%	3.1%	100%

RED RIVER BASIN

07315950 Moss Lake near Gainesville, Texas

LOCATION: Lat 33°46'26", long 97°12'62", Cooke County, at the upstream side of the outlet tower near the right end of the dam on Fish Creek, 1.6 mi (2.6 km) upstream from Bearhead Creek, 3.7 mi (6.0 km) upstream from the mouth, and 11 mi (18 km) northwest of Gainesville.

DRAINAGE AREA: 66 mi² (168 km²).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1967-75): Maximum contents, 32,860 ac-ft (40.6 hm³) Oct. 31, 1974 (elevation, 722.63 ft or 220.258 m); minimum contents since the lake was first filled in May 1968, 20,800 ac-ft (25.6 hm³) Oct. 20, 1972 (elevation, 712.77 ft or 217.252 m).

REMARKS: The lake is formed by a rolled earthfill dam 1,460 ft (445 m) long, with a capacity of 36,440 ac-ft (44.9 hm³). The dam was completed and storage began on Dec. 2, 1966. An uncontrolled morning glory-type spillway with a 7- by 7-foot (2- by 2-m) opening is designed to discharge 2,600 ft³/s (70.8 m³/s) at a 10-foot (3-m) head. The emergency spillway is a 400-foot wide (120-m) cut through natural ground located about 100-ft (30-m) to the left of the left end of the dam. The dam was built by the City of Gainesville to impound water for municipal use.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1967	-	-	-	-	-	-	-	-	-	5310	5220	5220
1968	6080	6500	14470	16930	23560	23270	23210	22550	22280	22000	21960	21940
1969	22550	23410	23590	23720	23440	23230	22550	21940	21680	21470	21260	22210
1970	22380	23520	23230	24460	23430	22790	22440	21770	23220	22950	22800	22820
1971	22900	22880	22770	22640	22880	22380	21850	22820	22810	23130	23130	23210
1972	23100	23100	22990	23210	22990	22600	21900	21460	21220	21490	21690	21680
1973	22590	23220	23210	23350	23100	23070	23270	22550	22790	23030	23350	23090
1974	23130	23208	23090	23240	22850	22580	21870	21840	23350	32750	23080	23190
1975	23210	23320	23620	23140	23660	23010	23040	22950	22730	22380	22210	22360
MAX	23210	23520	23620	24460	23660	23270	23270	22950	23350	32750	23350	23210
MIN	4080	6500	14470	16930	22850	22380	21850	21460	21220	5310	5220	5220
MEAN	20743	21144	22121	22586	23239	22866	22516	22235	22510	21612	20522	20636
NO. OF MEAN	8	8	8	8	8	8	8	8	8	9	9	9
DISTR OF MEAN	7.9%	8.0%	8.4%	8.6%	8.8%	8.7%	8.6%	8.5%	8.6%	8.2%	7.8%	7.9%

RED RIVER BASIN

07316000 Red River near Gainesville, Texas

LOCATION: Lat 33°43'40", long 97°09'35", in SW¼ sec. 36, T. 9 S., R. 1 E., Love County, Oklahoma, at the bridge on U.S. Highway 77, 0.2 mi (0.3 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 5.0 mi (8.0 km) downstream from Fish Creek, and 7.0 mi (11.0 km) north of Gainesville.

DRAINAGE AREA: 30,782 mi² (79,725 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: June 1936 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 627.91 ft (191.387 m) above mean sea level, datum of 1929. Prior to Jan. 17, 1939 and Feb. 13, 1965 to Nov. 14, 1968, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 40 years, 2,024,099 ac-ft/yr (2,495.7 hm³/yr).

EXTREMES: Period of record (1936-75): Maximum discharge, 168,000 ft³/s (4,760 m³/s) June 9, 1941 (gage height, 24.15 ft or 7.361 m); maximum gage height, 26.53 ft (8.086 m) May 21, 1951; minimum discharge, 48 ft³/s (1.35 m³/s) Jan. 27, 1940.

REMARKS: Records good. The flow has been slightly regulated since 1922 by Lake Kamp (station 07312000); since 1943 by Lake Altus; since 1946 by Lake Kickapoo (station 07314000); and since 1967 by Lake Arrowhead (station 07314800) and Moas Lake (station 07316950).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	255900	252900	13320	973500	276400	28900	22130	-
1937	26240	17010	91900	116300	75980	557300	64560	153700	141400	185500	31430	35600	1496920
1938	93460	441900	382900	246300	777200	631300	78930	44610	25050	12470	16120	7950	2758190
1939	83940	16260	54100	56900	58360	237100	82430	92200	13550	21150	10230	7690	733910
1940	5070	13680	5560	81360	235700	210700	253100	197600	76870	11230	216100	89110	1396080
1941	44310	287600	78310	278000	1811000	2589000	326000	142100	189700	1915000	830500	179400	8662920
1942	87990	72480	89920	1572000	417000	276300	62010	96620	225400	407800	220300	100200	3628020
1943	92890	46570	81820	281900	832200	343500	63540	16250	12980	21240	9570	23590	1826050
1944	39570	82060	133600	86480	65780	254100	52790	34880	34320	176500	61340	63860	1085280
1945	68780	123700	844700	656600	152100	240200	308000	104600	235200	693400	33650	29840	3490770
1946	178700	171900	90500	58350	98260	236600	66450	23870	134400	153300	95440	333400	1641170
1947	38470	22100	26560	378200	1452000	328900	66140	18980	11840	21170	38630	88630	2491620
1948	31970	71280	177200	48230	143200	261200	198200	43170	10100	10130	11440	9410	1015530
1949	23730	203800	67440	34050	519500	394500	53760	24520	157300	109400	40050	39490	1667540
1950	59080	98460	25950	48450	550500	234000	606100	795500	689900	174500	40990	35010	3358440
1951	34550	51190	57980	37440	1205000	1075000	294900	57950	47610	37980	57440	19360	2976400
1952	22540	19560	29990	97470	371200	126300	40350	13190	9740	7310	8430	10980	757060
1953	7730	8370	49460	62290	46390	69250	99960	86550	14420	494200	146500	67920	1153040
1954	22430	14600	12520	64230	1091000	274100	23520	14540	11640	11110	8140	11130	1558760
1955	12310	13610	26840	14760	886800	595500	108500	45020	170000	971200	63730	38170	2966440
1956	29050	31280	18270	15230	202700	127800	45150	11360	6440	72510	49600	40300	649690
1957	10700	27540	55150	781600	2938000	1244000	98750	57860	42730	96050	256200	35480	5644060
1958	64600	48290	72740	143400	426100	110700	134400	41700	16840	16790	10660	12270	1098490
1959	13670	12790	10410	50460	275900	329000	257900	48110	72810	564500	95070	301500	2032120
1960	186300	183600	87170	48900	79960	300800	193200	39720	36230	651800	106600	179900	2094180
1961	89660	68400	180300	192600	106000	333300	158800	40650	95690	45210	144700	76730	1532040
1962	31370	36810	28010	58710	111500	879800	145400	102600	215000	67450	138300	176900	1991850
1963	28220	33590	35010	83740	72740	229100	30600	11480	26000	9720	16510	12580	589290
1964	9380	53480	16760	27860	58090	88110	10230	32880	139000	52710	226900	31500	746900
1965	32190	24330	18450	58700	149400	253900	79050	35060	245700	332800	61030	43540	1334150
1966	34870	54170	39130	189700	188400	38080	21970	149300	326000	129900	18340	15370	1205230
1967	12410	11090	10980	328100	68600	158800	123100	43450	32900	19560	18390	12510	839890
1968	97750	40080	179900	95170	399700	428900	152600	34990	124300	76210	75740	72720	1778060
1969	24740	131400	239000	96370	692400	150000	28310	47610	220500	67870	46370	33050	1777620
1970	35900	27550	167700	102900	142900	71910	13360	10040	141100	43250	12710	9920	779240
1971	11320	10760	9770	9080	12570	61450	12140	154900	192000	134600	76620	170500	855710
1972	33010	22490	16310	23330	206900	59070	37440	11090	40790	42190	464100	45020	1001740
1973	211100	107800	333000	703000	133400	502900	61360	161800	197800	247500	240300	54980	2954940
1974	31680	30280	107600	37720	386600	128700	15880	25860	373400	170600	343500	51680	1703500
1975	69890	216400	195800	150100	726600	837900	456000	306900	109800	42700	56270	37460	3205820
MAX	211100	441900	844700	1572000	2938000	2589000	606100	795500	973500	1915000	830500	333400	8662920
MIN	5070	8370	5560	9080	12570	38080	10230	10040	6440	7310	8140	7690	589290
MEAN	52092	75596	106172	190153	465837	388124	123749	84663	145999	214873	111171	65670	2024099
NO.	39	39	39	39	39	40	40	40	40	40	40	40	39
DISTR													
OF MEAN	2.6%	3.7%	5.2%	9.4%	23.0%	19.2%	6.1%	4.2%	7.2%	10.6%	5.5%	3.2%	100%

RED RIVER BASIN

07316200 Mineral Creek near Sadler, Texas

LOCATION: Lat 33°42'08", long 96°50'51", Grayson County, at the bridge on Farm Road 901, 1.4 mi (2.3 km) north of Sadler, and 2.0 mi (3.2 km) upstream from Mustang Creek.

DRAINAGE AREA: 26.0 mi² (67.3 km²).

PERIOD OF RECORD: December 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 850.00 ft (198.120 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 9,275 ac-ft/yr (11.4 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 2,380 ft³/s (66.8 m³/s) Oct. 31, 1974 (gage height, 13.97 ft or 4.258 m); no flow at times each year.

Maximum stage since about 1800, about 18 ft (5.6 m) in 1922, from information by local residents.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL	
1967	-	-	-	-	-	-	-	-	-	-	-	-	82.0	-
1968	1330	110	3400	2320	2640	1750	80.0	.50	25.0	10.0	85.0	60.0	11811	
1969	455	1650	1890	736	6310	232	3.40	0	169	1050	32.0	9.64	13491	
1970	121	2540	1160	2510	576	70.0	4.90	4.60	1860	70.0	25.0	29.0	8970	
1971	54.0	47.0	37.0	30.0	412	3.80	0	195	295	1320	51.0	40.50	6495	
1972	103	49.0	52.0	200	344	4.00	0	7.00	9.00	1580	435	44.0	2827	
1973	780	1450	1480	2100	1210	807	310	16.0	2230	1470	777	278	12908	
1974	152	250	112	1130	167	464	3.00	1300	1840	3330	1280	194	10222	
1975	784	1420	2700	1250	591	1040	149	5.90	1.90	15.0	27.0	40.0	8024	
MAX	1330	2540	3400	2510	6310	1750	310	1300	2230	3330	1280	4050	13491	
MIN	54.0	47.0	37.0	30.0	167	3.80	0	0	1.90	10.0	25.0	29.0	2827	
MEAN	472	940	1354	1285	1531	546	68.8	191	604	1106	339	638	9275	
NO.	8	8	8	8	8	8	8	8	8	8	8	9	8	
DISTR														
OF MEAN	5.1%	10.1%	14.6%	13.8%	16.5%	5.9%	.7%	2.1%	8.7%	11.9%	3.7%	6.9%	100%	

RED RIVER BASIN

07331500 Lake Texoma near Denison, Texas

LOCATION: Lat 33°46'05", long 96°04'20", in NE¼ sec. 33, T. 8 S., R. 7 E., Bryan County, Oklahoma, in the control tower of Denison Dam of the Red River, 1.2 mi (1.9 km) upstream from Shawnee Creek, 1.8 mi (2.9 km) upstream from Sand Creek, and 4.0 mi (6.4 km) northwest of Denison.

DRAINAGE AREA: 39,719 mi² (102,872 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: July 1942 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Mar. 30, 1944, nonrecording gage at same site and datum. Prior to Oct. 1, 1948, auxiliary nonrecording gage in the Cumberland pool at same datum.

EXTREMES: Period of record (1942-75): Maximum contents, 5,991,300 ac-ft (7,387.3 hm³) June 5, 1957 (elevation, 643.18 ft or 196.041 m); minimum contents since the power pool was first filled, 1,565,100 ac-ft (1,929.8 hm³) Sept. 16, 1964; minimum elevation, 599.96 ft (182.866 m) Mar. 1, 2, 1957.

REMARKS: The lake is formed by a rolled earthfill dam. Flow was diverted through the conduits on July 27, 1942; regulated storage began on Oct. 31, 1943; the power pool was first filled on Mar. 15, 1945. The capacity of the lake is based on a 1962 survey; 5,392,800 ac-ft (6,649.4 hm³) at elevation 640.0 ft (195.07 m), the crest of the spillway; 2,733,300 ac-ft (3,370.2 hm³) at elevation 617.0 ft (188.06 m), the maximum power pool; 1,049,200 ac-ft (1,293.7 hm³) at elevation 590.0 ft (179.89 m), minimum power pool in the Denison pool. The dead storage is 11,000 ac-ft (13.6 hm³) at elevation 610.0 ft (185.93 m) in the Cumberland pool. When the contents are below 2,167,800 ac-ft (2,673.0 hm³), the lake is divided into two pools by protective levees around the Cumberland offfield on the Washita River arm with the bottom of the outlet channel for the upper pool (known as the Cumberland pool) at elevation 610.0 ft (185.93 m). At higher elevations, the two pools are considered as being at a common level, with the contents being computed from a gage in the Denison pool. Figures given herein represent the contents of both pools. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1942	-	-	-	-	-	-	4930	8710	8990	23350	9750	19660
1943	9430	8570	19140	12870	111300	10550	8150	4320	7380	3730	17740	46460
1944	101500	323400	583900	755900	1073000	1434000	1497000	1501000	1514000	1728000	1831000	1939000
1945	2037000	2431000	3806000	3925000	3034000	3580000	3096000	3041000	3299000	2831000	2781000	2782000
1946	3005000	3016000	3001000	2964000	3092000	3043000	2994000	2957000	2990000	2948000	2986000	3067000
1947	2852000	2664000	2614000	3091000	3852000	3052000	2918000	2798000	2658000	2574800	2552500	2703200
1948	2616900	2730000	2937300	2816000	3104800	3194700	2999100	2871400	2629800	2497300	2361600	2252200
1949	2180600	2460400	2496500	2480900	2968600	2956600	2888600	2745800	2818400	2841800	2711500	2598700
1950	2628100	2706400	2636700	2586900	3143800	3004000	3478500	2950200	3163200	2886800	2723300	2608800
1951	2503900	2460400	2455600	2399200	3138000	3350000	2885000	2720300	2611300	2563400	2529300	2436800
1952	2308400	2249400	2223500	2354400	2752900	2737900	2609600	2378400	2252900	2066200	1993800	1934400
1953	1858700	1805100	1890000	2004300	2073500	2022800	2110000	2024100	1882000	2360800	2342400	2527600
1954	2465300	2357600	2212300	2170900	3071800	2883200	2570100	2342200	2078100	2060800	1937800	1849000
1955	1867900	1867900	1904400	1907000	2861100	2845300	2739100	2564700	2694900	2789500	2560500	2343100
1956	2151200	1992700	1878000	1826200	1921400	1966300	1879900	1759000	1636400	1676900	1721300	1736200
1957	1626700	1608500	1642700	3167400	5678000	3559400	2937400	2827300	2886200	2661000	2689700	2462100
1958	2633200	2500100	2641000	2765200	2829100	2903000	2891800	2794900	2701900	2579900	2469400	2390800
1959	2273700	2250100	2135400	2137500	2517700	2845300	2936400	2747200	2703600	2739100	2723800	2746300
1960	2654900	2621900	2626200	2575700	2773300	2892700	2889900	2803000	2731900	2749900	2684500	2689700
1961	2511800	2543700	2701900	2632300	2693200	2951300	2953200	2826400	2831800	2703600	2750800	2675800
1962	2556300	2533700	2539500	2587400	2646200	2975500	2868600	2687100	2840800	2715000	2786800	2685400
1963	2467800	2482400	2505100	2542100	2484100	2530300	2377000	2203600	2113300	1947400	1898300	1841300
1964	1782000	1763200	1761400	1759000	1837600	1874100	1701800	1603300	1777200	1765600	2220000	2247900
1965	2212500	2222200	2170100	2158300	2364500	2499900	2348800	2177500	2311500	2585000	2521000	2450000
1966	2312000	2411000	2410000	2715000	2636000	2445000	2211000	2239000	2360000	2213000	2052000	1903000
1967	1817000	1723000	1686000	2294000	2387000	2470000	2449000	2275000	2228000	2119000	2049000	2021000
1968	2228000	2253000	2711000	2676000	2882000	2837000	2844000	2688000	2685000	2576000	2664000	2731000
1969	2641000	2629000	2621000	2525000	2723000	2771000	2562000	2420000	2526000	2538000	2419000	2343000
1970	2180000	2184000	2286000	2461000	2606000	2586000	2402000	2183000	2370000	2739500	2654600	2461400
1971	2358200	2331700	2280700	2216200	2196800	2233500	2110400	2186400	2349600	2502000	2430000	2791000
1972	2538000	2308000	2187000	2200800	2446000	2330000	2230000	2155000	2124000	2150000	2719000	2627000
1973	2828000	2740000	2892000	3263000	2870000	2819000	2709000	2585000	2894000	2846000	3185000	2790000
1974	2724000	2762000	2765000	2799000	2818000	2709000	2546000	2472000	2863000	3079000	2833000	2758000
1975	2786000	2866000	2873000	2700000	3071000	2811000	2943000	2738000	2663000	2552000	2506000	2452000
MAX	3005000	3016000	3806000	3925000	5678000	3580000	3478500	3041000	3299000	3079000	3185000	3067000
MIN	9430	8570	19140	12870	111300	10550	4930	4320	7380	3730	9750	19660
MEAN	2233849	2236557	2305859	2408142	2686658	2640102	2458508	2331701	2358976	2341570	2339247	2291495
NO.	33	33	33	33	33	33	34	34	34	34	34	34
DISTR												
OF MEAN	7.8%	7.8%	8.1%	8.4%	9.4%	9.2%	8.6%	8.1%	8.2%	8.2%	8.2%	8.0%

RED RIVER BASIN

07331600 Red River at Denison Dam near Denison, Texas

LOCATION: Lat 33°49'08", long 96°33'47", Grayson County, 1,800 ft (549 m) downstream from the Denison Dam powerhouse, 0.4 mi (0.6 km) upstream from Shawnee Creek (spillway flow return), and 4.5 mi (7.2 km) north of Denison.

DRAINAGE AREA: 39,720 mi² (102,880 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing. At the site used prior to October 1961, the drainage area was 39,777 mi² (103,022 km²), of which 5,936 mi² (15,374 km²) was probably noncontributing.

PERIOD OF RECORD: October 1923 to December 1975. Prior to October 1934, published as "near Denison, Texas", and October 1934 to September 1961, published as "near Colbert, Oklahoma".

GAGE: Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 53 years, 3,475,284 ac-ft/yr (4,285.0 hm³/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 201,000 ft³/s (5,690 m³/s) May 21, 1936 (gage height, 31.8 ft or 9.69 m, at site and datum then in use); maximum gage height, 32.0 ft (9.75 m) Apr. 25, 1942 (at site and datum used in 1943); minimum daily discharge, 12 ft³/s (0.34 m³/s) Jan. 10, 1944.

Flood of May 28, 1908 reached a stage of 45.5 ft (13.87 m) at site and datum used July 29, 1942 to Sept. 30, 1961, from records of the National Weather Service.

REMARKS: Records good. The flow is regulated since October 1943 by Lake Texoma (station 07331500).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	2144000	879000	607000	-
1924	174000	98900	305000	571000	383000	159000	103000	82500	66100	67500	43900	41900	2095800
1925	45600	41400	35700	303000	472000	72900	35300	245000	1002000	379000	169000	46700	2845600
1926	97200	56600	119000	357000	363000	202000	453000	555000	299000	1640000	151000	31400	4606800
1927	276000	263000	262000	1566000	250000	344000	527000	264000	106000	381000	77400	171000	4507400
1928	135000	163000	105000	375000	1019000	1170000	498000	186000	53000	28100	127000	88500	3947600
1929	101000	70000	206000	278000	1087000	584000	217000	51500	569000	141000	149000	105000	3558500
1930	103000	287000	132000	82700	1350000	515000	81800	35700	55900	602000	104000	498000	3847100
1931	89800	312000	271000	224000	285000	91600	205000	52300	20800	296000	298000	290000	2435500
1932	836000	679000	183000	183000	356000	918000	779000	159000	212000	84200	38000	323000	4752200
1933	176000	66100	344000	194000	1332000	172000	102000	309000	327000	105600	62630	72970	3263300
1934	113300	100400	308100	179200	230500	133100	27920	12890	318600	82830	192200	7100	1770040
1935	51090	36040	382800	185900	2690000	1333000	369200	148300	341700	98040	98420	310900	6045390
1936	719400	51720	64790	39178	549000	408700	75640	25660	985500	451800	71600	86990	3529970
1937	155800	79660	184500	242600	105500	656500	85890	261900	180800	232100	57610	95170	2338030
1938	161400	1100000	637600	465000	1147000	686400	158500	92780	57670	32710	40820	23770	4603650
1939	102900	45250	61430	144900	90290	241800	143500	136500	23880	25360	23940	14760	1034510
1940	11180	28390	15340	209800	458000	427400	445200	227400	82140	23220	257600	205600	2186270
1941	140500	400700	145000	563100	1975000	3093000	475800	219900	308000	2523000	1515000	322700	11681700
1942	178100	160100	196100	2586000	896100	651500	176800	167300	365300	476000	488900	179200	6521400
1943	180400	102500	157000	573300	1675000	701300	131800	42310	40730	45550	28710	27490	3706090
1944	17000	13630	12430	15040	8510	23120	10140	41890	6600	9060	7480	37640	202540
1945	16660	37670	530000	1214000	1251000	471300	1220000	299800	162100	1683000	140700	61920	7088150
1946	260300	525300	291700	243800	230300	527500	272800	132700	118500	183300	290000	705500	3781500
1947	314900	239500	133400	376000	1401000	1552000	259300	143600	137700	135100	79810	144600	4916910
1948	149700	149800	165300	206300	174600	356800	716300	156700	126400	113100	128900	122000	2565900
1949	158000	133900	180400	139800	558800	835400	141900	151100	145900	181100	164500	181300	2972100
1950	156100	172400	109000	141500	852400	515900	443100	1572000	614500	493700	174400	184200	5428700
1951	177700	183500	143500	124400	853900	1545000	837400	191800	152500	113200	98770	111600	4533270
1952	163200	105700	116500	180300	151300	169200	166500	193100	100700	147200	90230	83330	1667260
1953	92440	70410	43700	104000	90790	125400	154800	180300	159100	135000	70560	136600	1363100
1954	123600	121900	153300	161600	762400	568500	283400	196000	146500	68210	117200	127800	2830410
1955	20000	56400	50510	69880	196900	692400	219400	221300	160000	907500	284000	249200	3127490
1956	223000	231000	138300	64810	126500	86200	97170	84890	84690	4100	4740	41610	1187010
1957	130000	84020	91080	190500	2134000	3984000	775300	150800	289900	351700	550000	323400	9054700
1958	102600	244200	96990	184200	708500	139500	175600	152800	96020	112100	113800	91210	2219520
1959	139400	42890	149500	134700	43780	126000	243000	284200	182900	983200	154700	414300	2898570
1960	486000	429500	255100	191300	166200	212700	232700	136300	114900	740100	193100	307300	3465200
1961	304900	117900	165800	361600	149600	179500	210000	168800	213800	296000	270200	263000	2701100
1962	184700	102000	76710	118900	75320	1121000	278100	266700	224500	276400	242800	364700	3331830
1963	270600	63090	89080	170300	159600	151100	177600	138400	89300	66350	47770	68080	1491270
1964	75420	81540	66540	95110	101600	118700	154300	150600	70050	59670	48490	55870	1077890
1965	112800	113000	100100	110100	119200	165300	193900	166400	161500	126400	146800	121500	1637000
1966	195500	107500	80520	178100	323900	210600	211100	129900	204800	241200	152400	156000	2191520
1967	99950	107300	52340	73420	136000	177100	159700	174600	163300	131100	92720	64480	1432010
1968	67780	73850	57910	309600	759100	862200	222900	184200	168100	218900	92410	114200	3131150
1969	227100	370400	474000	459300	1168000	224200	218600	144100	139700	146900	154400	173600	3900300
1970	225400	143200	193800	134300	100000	143300	151300	188500	120400	64200	120100	204400	1788900
1971	158100	66870	80300	93500	91860	91720	123000	149700	50990	135200	148600	172600	1362440
1972	296400	255700	142500	65490	107100	176900	107300	58620	64190	104500	109000	154000	1641700

RED RIVER BASIN

7331600 Red River at Denison Dam near Denison, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	145400	364000	585200	977500	710800	1030000	219000	262100	241700	628200	367700	639200	6170000
1974	162300	80500	190500	103200	628400	357200	142000	171500	262700	317200	112400	210400	2739100
1975	185900	426100	594600	577800	816900	145500	445600	639000	215800	146400	121300	128400	4445500
MAX	836000	1100000	637600	2586000	2690000	3984000	1220000	1572000	1000000	2523000	1515000	705500	11681700
MIN	11180	13630	12430	15040	8510	23120	10140	12890	6600	4100	4740	14760	202540
MEAN	178660	181854	187461	324866	612955	570018	276068	202641	203901	361892	184221	190747	3475284
NO.	52	52	52	52	52	52	52	52	52	53	53	53	52
DISTR													
OF MEAN	5.1%	5.2%	5.4%	9.3%	17.6%	16.4%	7.9%	5.8%	5.9%	10.4%	5.3%	5.5%	100%

RED RIVER BASIN
07332600 Bois d' Arc Creek near Randolph, Texas

LOCATION: Lat 33°28'32", long 96°12'62", Fannin County, at the bridge on State Highway 11, 2.3 mi (3.7 km) upstream from Henson Creek, and 2.4 mi (3.9 km) east of Randolph.

DRAINAGE AREA: 72 mi² (186 km²).

PERIOD OF RECORD: December 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 564.38 ft (172.023 m) above mean sea level.

AVERAGE DISCHARGE: 14 years, 43,621 ac-ft/yr (53.8 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 13,000 ft³/s (368 m³/s) Dec. 9, 1971, and Oct. 31, 1974 (gage height, 22.28 ft or 6.791 m); maximum gage height, 22.31 ft (6.800 m) December 9, 1971; no flow at times most years.

Maximum stage since at least 1922, 24.6 ft (7.50 m) occurred in 1936, from information by the State Highway Department and a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	-	-	-	1540
1963	582	295	839	3960	1250	146	84.0	0	0	0	0	0	7156
1964	0	0	411	2720	2810	3120	2.80	2.80	10920	565	9150	1520	31222
1965	1720	10260	1230	1150	2760	1150	174	0	4510	38.0	204	103	23299
1966	76.0	3000	732	33220	4560	254	14.0	33.0	459	3.40	2.40	48.0	42402
1967	57.0	55.0	1710	4190	12450	3340	252	1.30	10260	1620	700	2480	37115
1968	4920	2470	17510	15590	11430	4320	2630	124	7530	1540	4920	4460	77444
1969	6040	6340	7320	4490	24720	1360	53.0	1.70	1.30	264	40.0	1930	52560
1970	457	7810	9370	10950	1410	752	11.0	77.0	2880	888	469	242	35316
1971	491	885	419	128	769	16.0	210	192	562	13840	1640	31660	50812
1972	1110	636	415	245	188	1.00	0	0	74.0	3730	4780	1050	12229
1973	3910	4730	12310	7360	3530	7870	581	81.0	22040	17200	12370	5740	97722
1974	2640	1560	1020	5240	1670	8950	56.0	262	8280	13580	11360	5550	60168
1975	6420	16040	3920	4010	2730	8790	130	86.0	430	0	0	1.90	42128
MAX	6420	16040	17510	33220	24720	8950	2630	262	22040	17200	12370	31660	97722
MIN	0	0	411	128	188	1.00	0	0	0	0	0	0	7156
MEAN	2186	4160	4400	7173	5406	3082	323	66.2	5194	4098	3510	4023	43621
NO. OF MEAN	13	13	13	13	13	13	13	13	13	13	13	14	13
DISTR													
OF MEAN	5.0%	9.5%	10.1%	16.9%	12.4%	7.1%	7%	2%	11.9%	9.4%	8.0%	9.2%	100%

RED RIVER BASIN

0735390 Pat Mayse Lake near Chicota, Texas

LOCATION: Lat 33°51'10", Long 95°32'38", Lamar County, on the upstream side of the dam on Sanders Creek, 2,800 ft (853 m) to the right of the outlet channel, 2.0 mi (3.2 km) southeast of Chicota, and 4.6 mi (7.4 km) upstream from the Red River.

DRAINAGE AREA: 175 mi² (453 km²).

PERIOD OF RECORD: October 1967 to December 1975. Prior to October 1970, published as "Pat Mayse Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 10, 1968, nonrecording gage at present site and datum.

EXTREMES: Period of record (1967-75): Maximum contents, 208,000 ac-ft (256 hm³) Dec. 11, 12, 1971 (elevation, 462.87 ft or 141.083 m); minimum contents since the conservation pool was first reached on Apr. 20, 1968, 109,600 ac-ft (135 hm³) Oct. 20, 21, 1972 (elevation, 448.42 ft or 136.678 m).

REMARKS: The lake is formed by a rolled earthfill dam about 7,080 ft (2,160 m) long, including an emergency spillway 100 ft (30 m) wide located near the right abutment of the dam. The capacity of the lake is 352,700 ac-ft (434.9 hm³). The dam was completed and deliberate impoundment began on Sept. 28, 1967. The flood-control outlet works consist of an uncontrolled morning glory-type drop inlet spillway that is connected to a 7.25-foot diameter (2.21-m) concrete conduit through the dam. A 24-inch diameter (610-millimeter) and a 12-inch (305-millimeter) low-flow pipe are provided for additional outlets. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1967	-	-	-	-	-	-	-	-	-	11810	12740	29230
1968	41090	45990	100300	132600	137100	137100	132300	127700	133500	127300	141400	136800
1969	155500	149200	139700	133300	171100	134200	126000	122600	122400	123800	123200	133400
1970	127700	141300	135200	149200	130100	125900	123300	120200	129100	131400	128800	126200
1971	126600	128300	126400	125000	125800	122900	124000	122600	121600	136800	129400	174600
1972	133900	128200	125200	124200	122300	119900	116500	113300	111600	120800	128900	128800
1973	132900	131000	138900	140600	129300	128800	124500	121100	128800	135600	136900	132500
1974	132000	128200	126200	132300	129200	129900	123800	123900	140100	141900	143000	131800
1975	130600	134100	132800	129700	133700	133600	126000	122300	119400	116000	114400	113600
MAX	155500	149200	139700	149200	171100	137100	132300	127700	140100	141900	143000	174600
MIN	41090	45990	100300	124200	122300	119900	116500	113300	111600	11810	12740	29230
MEAN	122536	123286	128088	133363	134825	129038	124550	121713	125813	116157	117638	122992
NO.	8	8	8	8	8	8	8	8	8	9	9	9
DISTR												
OF MEAN	8.2%	8.2%	8.5%	8.9%	9.0%	8.6%	8.3%	8.1%	8.4%	7.7%	7.8%	8.2%

RED RIVER BASIN

07335400 Sanders Creek near Chicots, Texas

LOCATION: Lat 33°51'10", Long 96°32'28", Lamar County, on the upstream side of Pat Maysa Dam, 2,800 ft (853 m) to the right of the morning-glory drop inlet, 2.0 mi (3.2 km) southeast of Chicots, and 4.6 mi (7.4 km) upstream from the mouth.

DRAINAGE AREA: 175 mi² (453 km²), at Pat Maysa Dam; 184 mi² (477 km²) at former site 2.6 mi (4.2 km) downstream.

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 440.00 ft (134.112 m) above mean sea level, datum of 1929. Prior to October 1, 1967, at site 2.6 mi (4.2 km) downstream at datum 52.77 ft (16.084 m) lower. Oct. 1, 1967 to Sept. 30, 1970, at datum 10.00 ft (3.084 m) higher.

AVERAGE DISCHARGE: 9 years, 118,159 ac-ft/yr (145.7 km³/yr).

EXTREMES: Period of record (1967-75): Maximum outflow, 1,060 ft³/s (30.0 m³/s) May 19, 1969 (gage height, 10.20 ft or 3.109 m, datum then in use); maximum gage height, 22.87 ft (6.971 m) Dec. 11, 12, 1971; no flow at times each year.

REMARKS: Records fair. The flow represents the uncontrolled outflow from Pat Maysa Lake (station 07335390). The flow downstream from the dam is affected by local runoff and backwater from the Red River.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	0	0	0	-
1968	0	0	0	4270	24070	12830	9080	4970	8460	5780	5890	21550	96900
1969	12280	40100	35140	16510	54950	41960	4830	181	0	0	0	776	206727
1970	6300	16030	36770	18230	23050	2280	191	0	582	6810	5350	1710	117303
1971	1440	1220	2370	437	579	309	0	0	0	14510	9180	47740	77785
1972	42960	6010	1300	460	0	0	0	0	0	0	6060	4840	61216
1973	5100	13910	40090	25210	14860	8400	1340	0	2950	5130	21920	13380	152290
1974	8600	4520	2210	3280	11520	18250	1670	20	19240	11120	50580	25120	156110
1975	7180	31610	12450	10170	12720	26900	4250	255	0	0	0	0	105535
MAX	42960	40100	40090	25210	54950	41960	9080	4970	19240	14510	50580	47740	206727
MIN	0	0	0	460	0	0	0	0	0	0	0	0	61216
MEAN	10483	14175	16291	9769	17719	13866	2670	676	3904	4817	10998	12791	118159
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR OF MEAN	8.9%	12.0%	13.8%	8.3%	15.0%	11.7%	2.3%	.6%	3.3%	4.1%	9.3%	10.8%	100%

RED RIVER BASIN

07335500 Red River at Arthur City, Texas

LOCATION: Lat 33°52'32", long 95°30'08", in NW¼ sec. 11, T. 8 S., R. 17 E., Choctaw County, Oklahoma, at the bridge on U.S. Highway 271 at Arthur City, 10.6 mi (17.1 km) downstream from Muddy Boggy River, and 26.0 mi (41.8 km) upstream from Kiamichi River.

DRAINAGE AREA: 44,531 mi² (116,336 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: October 1905 to December 1911, July 1936 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 380.07 ft (115.845 m) above mean sea level, datum of 1929. From 1905-11, nonrecording gage at the St. Louis-San Francisco Railway Co. bridge 200 ft (61 m) upstream at same datum, July 1, 1936 to Mar. 24, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 47 years (1905-11, 1936-75), 6,010,143 ac-ft/yr (7,410.5 hm³/yr).

EXTREMES: Period of record (1905-11, 1936-75): Maximum discharge, 400,000 ft³/s (11,300 m³/s) May 28, 1908 (gage height, 43.2 ft or 13.17 m); minimum, 130 ft³/s (3.68 m³/s) Dec. 11, 12, 1956 (gage height, 4.49 ft or 1.369 m).

REMARKS: Records good. The flow is regulated since October 1943 by Lake Texoma (station 07331500) located 82.8 mi (149.3 km) above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1905	-	-	-	-	-	-	-	-	-	293000	363000	543000	-
1906	367000	385000	329000	570000	1450000	711000	478000	1400000	970000	381000	180000	351000	7572000
1907	463000	246000	551000	236000	969000	1120000	694000	260000	135000	531000	302000	459000	5966000
1908	403000	460000	559000	1800000	4060200	5580000	985000	249000	186000	630000	251000	650000	15813200
1909	180000	138000	154000	163000	237000	512000	218000	119000	84100	69500	168000	393000	2435600
1910	175000	140000	126000	339000	285000	252000	274000	175000	105000	86100	76200	75200	2108500
1911	73200	166000	139000	171000	149000	207000	352000	256000	393000	134000	117000	384000	2541200
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	-	-	-	-	-	-	-	-	-	-	-	-	-
1925	-	-	-	-	-	-	-	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	74890	27120	991900	732600	100000	152300	-
1937	608800	227700	341100	508500	164900	813500	139900	330700	270800	280000	197500	248900	4132300
1938	543700	2567000	1119000	1141000	1031000	693600	225700	154200	67380	35650	42050	30350	7650630
1939	108100	131000	144500	540800	132800	250700	221000	119800	35390	24800	31570	20970	1761430
1940	18200	48790	29160	516400	1076000	893100	730600	303700	108500	32850	349300	473500	4580100
1941	335000	596600	252900	1285000	2602000	3642000	597400	242000	326700	2688000	1959000	456700	14983300
1942	232600	294400	346600	4483000	1600000	1272000	283500	210400	415100	518900	676500	322600	10655600
1943	254300	152300	301400	857000	2477000	1129000	175700	54210	53720	62540	45720	50190	5613080
1944	75900	353500	429300	125800	555500	284300	29210	45200	20510	55100	44070	145800	2164190
1945	99510	835900	2328000	2290000	1650000	1998000	1626000	585500	286700	2196000	246200	92920	14234730
1946	509600	1344000	635000	507000	700800	928100	320400	261000	196300	204400	1261000	1629000	8496600
1947	426000	284800	345700	972700	1891000	1849000	349500	200400	155300	146000	110800	294200	7025400
1948	302800	551200	467500	263000	771000	508000	1099000	180600	137500	122000	140000	132700	4675300
1949	603500	515500	477100	311800	1027000	1141000	188500	157100	186900	297000	173100	221300	5297800
1950	675800	885000	185600	181600	1812000	652600	1067000	2146000	1131000	557000	202100	213700	9709400
1951	202300	545800	256200	226500	809800	2484000	1036000	201900	183300	137200	171300	133100	6387400
1952	166000	133800	258100	1019000	333800	212200	162400	195700	113500	140300	122900	104000	2961700
1953	104800	92830	239600	679300	786600	157200	500200	240800	186400	162400	109300	197700	3457130
1954	299800	170800	160300	238000	1710000	677000	310300	210000	145100	432100	134900	200100	4688400

RED RIVER BASIN

07335500 Red River at Arthur City, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	118200	265200	381500	233100	329200	703900	306200	228200	319900	955200	308300	270100	4419000
1956	248200	391800	182100	79940	230900	123400	97540	86630	86790	16190	14400	54970	1612860
1957	133900	210400	282700	1612000	3885000	4988000	973200	171100	818600	443000	1320000	518100	15356000
1958	463300	355700	561200	463200	1627000	241200	209100	236700	124900	117000	139900	102700	4631900
1959	132400	63190	273900	243600	183100	166200	602500	330800	201000	1286000	275900	659000	4415590
1960	833100	644300	471600	258200	651300	273100	337400	174200	162000	756200	289900	669800	5521100
1961	475800	343800	350600	613200	308400	235500	286600	182400	282400	420700	492100	608600	4600100
1962	336300	200500	215000	491800	179000	1450000	310000	308800	444300	517800	495300	631900	5580700
1963	336500	113900	202400	312600	293100	154100	193900	142900	88370	61690	48330	68550	2016340
1964	69210	99210	177000	300000	203000	291000	133000	187400	361200	117400	350300	146400	2435120
1965	219500	442100	192200	213600	421400	228100	211000	180000	260200	138100	168800	134300	2809300
1966	197600	398900	135600	811600	841200	207500	226500	155500	233000	242100	137300	156900	3743700
1967	106500	108100	68720	709900	393200	495700	305100	183100	531800	166700	211100	195400	3475320
1968	439300	325700	990600	991300	1658000	1215000	363200	253700	318900	264800	369600	504400	7694400
1969	491800	1016000	1020000	781500	2600000	422000	245700	178000	163700	442100	221100	300400	7882300
1970	425200	405000	703800	590400	415400	317700	158300	217600	267200	575600	216900	258100	4551200
1971	264600	167500	156400	275900	241200	161000	178600	205500	90740	480500	236200	1380000	3838140
1972	429700	323600	190800	176700	202500	191500	140700	68130	75620	234000	758700	237600	3029550
1973	411800	718200	1551000	1826000	1243000	1666000	313000	319000	658300	1179000	959000	1196000	12040300
1974	293500	208400	346100	259100	1006000	829900	162600	231000	623700	457300	2212000	533100	7162700
1975	402900	1038000	1191000	1002000	1042000	1917000	499500	808500	282400	174800	150200	206000	8714300
MAX	833100	2567000	2328000	4483000	4060200	5580000	1626000	2146000	1131000	2688000	2212000	1629000	15813200
MIN	18200	48790	29160	79940	132800	123400	29210	27120	20510	16190	14400	20970	1612860
MEAN	312116	424565	440384	703801	1027451	983224	399823	286402	288696	425439	360635	357607	6010143
NO.	45	45	45	45	45	45	46	46	46	47	47	47	45
DISTR													
OF MEAN	5.2%	7.1%	7.3%	11.7%	17.1%	16.4%	6.7%	4.8%	4.8%	7.1%	6.0%	6.0%	100%

RED RIVER BASIN

07336750 Little Pine Creek near Kanawha, Texas

LOCATION: Lat 33°50'28", Long 96°15'55", Red River County, at the bridge on Farm Road 410, 1.6 mi (2.6 km) south of Kanawha, and 2.5 mi (4.0 km) upstream from the mouth.

DRAINAGE AREA: 75.4 mi² (195.3 km²).

PERIOD OF RECORD: December 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 388.26 ft (118.646 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 67,153 ac-ft/yr (82.8 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 30,200 ft³/s (855 m³/s) Dec. 10, 1971 (gage height, 21.26 ft or 6.480 m); no flow at times each year.

Maximum stage since 1948, that of December 10, 1971.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	-	-	5070	-
1969	20600	15930	12890	4110	31990	6100	0	0	0	1100	5070	2430	88028
1970	1350	5810	19370	12840	2320	1130	218	8000	351	1130	1710	2030	48339
1971	499	1950	1730	830	8280	7100	1560	115	1100	13470	168	57020	89957
1972	2180	722	180	2200	1900	0	0	0	0	2000	12220	4050	21393
1973	5960	8270	27600	24340	5430	8290	283	600	5300	8540	17140	13600	124754
1974	10020	1070	244	2250	4130	1180	0	0	9940	1970	27870	10270	68944
1975	3110	16630	8590	3580	4520	3840	120	7030	0	0	0	0	40397
MAX	20600	16630	27600	24340	31990	8290	1560	115	9940	13470	27870	57020	124754
MIN	499	722	180	220	190	0	0	0	0	0	0	0	21393
MEAN	6246	7197	10086	6746	8098	2082	312	290	2229	3874	8445	11809	67153
NO.	7	7	7	7	7	7	7	7	7	7	7	8	7
DISTR OF MEAN	9.3%	10.7%	15.0%	10.0%	12.1%	3.1%	.5%	.0%	3.3%	5.0%	12.6%	17.6%	100%

RED RIVER BASIN

07336800 Pecan Bayou near Clarksville, Texas

LOCATION: Lat 33°41'07", long 94°59'41", Red River County, at the bridge on Farm Road 1169, 0.2 mi (0.3 km) downstream from Tanyard Bayou, 4.3 mi (6.9 km) upstream from Little White Oak Creek, and 6.0 mi (9.7 km) northeast of Clarksville.

DRAINAGE AREA: 100 mi² (260 km²).

PERIOD OF RECORD: January 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 360.00 ft (109.728 m) above mean sea level, datum of 1929. Prior to October 1, 1970, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE: 14 years, 60,918 ac-ft/yr (75.1 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 21,300 ft³/s (603 m³/s) December 10, 1971 (gage height, 15.92 ft or 4.852 m); no flow at times.

Maximum stage since at least 1910, about 17 ft (5.2 m), present datum, in 1957, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	12750	8400	5820	12480	4470	872	737	76.0	2090	2050	3440	1060	54245
1963	2300	153	8590	482	722	35.0	1100	7.50	36.0	2.00	0	0	13428
1964	0	0	2830	19900	698	112	1.60	0	412	7.50	103	181	24245
1965	5100	22540	2460	837	4240	1880	53.0	0	126	57.0	3.30	0	37296
1966	4.40	2760	119	31150	8420	24.0	0	0	0	19.0	.60	22.0	42539
1967	23.0	77.0	202	11700	17680	10390	127	0	0	1230	617	5650	47696
1968	5230	10140	25510	20180	25350	15270	23.0	.30	58.0	283	1450	6750	110244
1969	17820	18730	9970	3430	33410	19.0	0	0	0	0	4.70	1960	85344
1970	1640	9590	21340	11450	1960	.60	0	0	0	152	403	118	46654
1971	322	1020	2630	43.0	10220	129	220	184	0	802	9.00	54460	70039
1972	1400	718	146	32.0	4.00	0	0	0	0	10.0	6320	5160	13790
1973	6360	10420	34250	34120	880	12850	117	1.10	470	6370	35220	21160	162218
1974	23870	1360	331	615	1850	16460	.30	0	8750	1230	28320	15560	98346
1975	2420	19950	12570	5330	5120	1380	2.70	.08	0	0	0	0	46773
MAX	23870	22540	34250	34120	33410	16460	1100	184	8750	6370	35220	54460	162218
MIN	0	0	119	32.0	4.00	0	0	0	0	0	0	0	13428
MEAN	5660	7563	9055	10839	8216	4244	170	19.2	853	872	5421	8006	60918
NO.	14	14	14	14	14	14	14	14	14	14	14	14	14
DISTR OF MEAN	9.3%	12.4%	14.9%	17.8%	13.5%	7.0%	.3%	.0%	1.4%	1.4%	8.9%	13.1%	100%

RED RIVER BASIN

07336820 Red River near De Kalb, Texas

LOCATION: Lat 33°41'15", long 94°41'39", Bowie County, Texas-McCurtain County, Oklahoma State line, at the bridge on U.S. Highway 259, 4.8 mi (7.7 km) upstream from North Mill Creek, and 13 mi (21 km) north of De Kalb.

DRAINAGE AREA: 47,348 mi² (122,631 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: December 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 302.92 ft (92.330 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 10,061,886 ac-ft/yr (12,394.0 hm³/yr).

EXTREMES: Period of record (1967-75); Maximum discharge, 169,000 ft³/s (5,350 m³/s) Dec. 11, 1971 (gage height, 31.55 ft or 9.616 m, from graph based on gage readings); minimum, 431 ft³/s (12.2 m³/s) Sept. 4, 5, 1972.

The greatest flood since 1936 occurred in February 1938, stage unknown.

REMARKS: Records good. The flow is partly regulated by Lake Texoma (station 07331500) located 169 mi (272 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	-	-	475300	-
1968	638100	713900	1615000	1621000	2419000	1560000	464600	340700	448800	351600	539500	944500	11656700
1969	697500	1721000	1493000	956600	3740000	650000	291800	184100	161100	503900	252300	309700	10961000
1970	551900	505700	1162000	931200	615900	485000	180100	217000	286800	785100	381500	267000	6349200
1971	406300	295600	287900	414600	344200	178600	169900	212700	92900	780800	330600	2794000	6308100
1972	628400	514800	318600	330800	289400	201700	159700	87220	90400	192100	1680000	435000	4928120
1973	663300	1075000	2533000	2907000	2002000	2513000	410500	347100	802000	1511000	1477000	1911000	18151900
1974	511400	273300	478700	441800	1325000	1484000	212000	274600	1429000	665900	3164000	952300	11212000
1975	559000	1677000	1654000	1458000	1341000	2343000	492800	857400	322800	183200	172900	236700	11297800
MAX	697500	1721000	2533000	2907000	3740000	2513000	492800	857400	1429000	1511000	3164000	2794000	18151900
MIN	406300	273300	287900	330800	289400	178600	159700	87220	90400	183200	172900	236700	4928120
MEAN	581988	847038	1192775	1132625	1509563	1176913	295175	315103	454225	621700	999725	925056	10051886
NO.	8	8	8	8	8	8	8	8	8	8	8	9	8
DISTR													
OF MEAN	5.8%	8.4%	11.9%	11.3%	15.0%	11.7%	2.9%	3.1%	4.5%	6.2%	9.9%	9.2%	100%

RED RIVER BASIN
07337000 Red River at Index, Arkansas

LOCATION: Lat 33°33'07", long 94°02'28", in NW¼SW¼ sec. 7, T. 14 S., R. 28 W., Miller County, Arkansas, at the bridge on U.S. Highway 71 at Index, Arkansas, 2.2 mi (3.6 km) south of Ogden, Arkansas, and 20.6 mi (33.1 km) upstream from the Little River.

DRAINAGE AREA: 48,030 mi² (124,400 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD: July 1936 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 246.87 ft (75.246 m) above mean sea level, datum of 1928. Prior to Dec. 12, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 40 years, 8,757,438 ac-ft/yr (10,797.9 hm³/yr).

EXTREMES: Period of record (1936-75): Maximum discharge, 297,000 ft³/s (8,410 m³/s) Feb. 23, 1938 (gage height, 34.25 ft or 10.439 m); minimum, 378 ft³/s (10.7 m³/s) Nov. 28, 1956.

REMARKS: Records good. There is some regulation by Lake Texoma (station 07331500) located 241 mi (388 km) upstream since Oct. 31, 1943 (capacity, 5,392,900 ac-ft or 8,648.4 hm³), by Pat Maysa Lake (station 07335390) since Sept. 28, 1967 (capacity, 352,700 ac-ft or 434.9 hm³), and by Hugo Lake (Oklahoma) since Jan. 18, 1974 (capacity, 966,700 ac-ft or 1,191.9 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	-	128200	44550	690100	1217000	266900	338800	-
1937	1467000	474800	676600	788400	345300	857300	197800	338000	285800	257400	319400	416100	6423900
1938	1471000	3763000	1252000	2531000	1180000	942100	304300	229800	96830	59310	62530	54980	11946850
1939	137200	473600	370500	1232000	307900	340900	273800	133200	56860	36040	36760	37970	3436730
1940	36060	78600	59350	710900	1381000	1039000	1069000	312700	137200	55470	442600	928600	6250480
1941	620100	909900	666900	1916000	2958000	3709000	831100	246000	-403900	2529000	2286000	656600	17732500
1942	380200	447800	619800	4648000	2991000	1344000	451000	241400	462900	547300	788100	509100	13430600
1943	947000	216000	483400	1224000	2729000	1363000	209900	81180	66650	87050	81900	95770	7084850
1944	248300	725600	1200000	469800	1392000	637000	71480	63020	54080	72420	120800	368600	5423100
1945	338700	1437000	4164000	3290000	2495000	3009000	1895000	771300	358400	2564000	387800	143900	20854100
1946	973100	2164000	1141000	934600	1376000	1219000	389600	256300	232200	226100	2022000	228000	13213900
1947	626400	373500	665200	1257000	2679000	2136000	460000	203500	191800	163300	159800	577800	9493300
1948	603000	819400	1008000	385600	1350000	556600	1171000	207600	162400	131200	161800	176500	6733100
1949	1408000	1166000	910500	560000	1379000	1465000	274500	186100	217300	431800	229500	320600	8548300
1950	1406000	1943000	353600	219900	2463000	748100	1487000	2412000	1806000	720800	248200	218600	14026200
1951	313800	1178000	487100	475100	796700	3236000	1433000	244400	233900	167900	352600	227200	9191200
1952	317600	242900	562000	2066000	474800	290000	183400	198400	139000	130000	190900	294100	5089100
1953	205000	230300	675400	1161000	2084000	201400	665800	324900	199300	183500	142300	239100	6312000
1954	569200	345200	206600	363900	2235000	846000	317300	229100	153200	677100	243400	238600	6424600
1955	353900	503800	796300	448200	457800	712900	366800	262900	527500	1108000	314500	287000	6139600
1956	255900	819900	280600	124700	468400	189200	106400	101000	88340	44050	38220	74150	2590860
1957	207100	509400	653000	2645000	5381000	5617000	1328000	204500	1056000	700100	1992000	873200	21366300
1958	913500	491800	1079000	890600	2783000	327400	420700	295000	200800	159200	252600	168200	7981000
1959	175700	243900	466900	487800	348500	202400	768900	435700	264000	1423000	359000	103800	6213800
1960	1252000	840200	677700	364600	1238000	362800	483300	296500	214100	709800	429400	116200	8030400
1961	708300	579700	625200	1118000	643300	324000	514300	249000	312100	470400	784400	962500	7291200
1962	708300	525900	480400	852200	389000	1502000	423400	307400	509300	777500	639400	850500	7965300
1963	430000	169100	471500	382400	551200	207400	275300	174500	117100	84490	64920	93460	3021370
1964	83600	122300	420000	803000	362700	340800	145200	220800	440600	342500	488100	254600	4024200
1965	339200	864600	388000	456200	580700	417400	228200	191000	363700	169800	215900	160600	4375300
1966	197300	716000	201300	1046000	1603000	249200	267700	241200	267300	288100	186300	213500	5476900
1967	172500	131700	137300	1222000	971400	714800	458200	214200	730600	216800	370000	473600	5813100
1968	599900	951000	1584000	1698000	3000000	1859000	528600	325200	389700	348300	450800	969800	12704300
1969	743500	1901000	1601000	921400	3629000	628200	283200	196200	171800	506700	245600	325300	11152900
1970	688400	547100	1445000	973300	739200	465200	180300	223600	282100	746900	406500	247800	6945400
1971	403500	292300	347900	382200	368000	222500	166700	236900	91440	662200	282900	2711000	6167540
1972	658000	449600	272700	287000	258200	202600	154100	103900	87830	175300	1610000	418300	4677530
1973	580800	1085000	2415000	2550000	1990000	2355000	402500	328700	627900	1406000	1375000	1896000	17011900
1974	600800	277800	466200	419600	1229000	1524000	228100	274300	1242000	727300	2805000	1112000	10906100
1975	598800	1458000	1442000	1305000	1214000	1924000	531800	844000	299800	189600	173200	229200	10209400
MAX	1471000	3763000	4164000	4648000	5381000	5617000	1895000	2412000	1806000	2564000	2805000	2711000	21366300
MIN	36060	78600	59350	124700	258200	189200	71480	44550	54080	36040	36760	37970	2590860
MEAN	570222	781228	814178	1123344	1508259	1135569	501872	311249	355796	537818	550676	567228	8757439
NO.	39	39	39	39	39	39	40	40	40	40	40	40	39
DISTR OF MEAN	6.5%	8.9%	9.3%	12.8%	17.2%	13.0%	5.7%	3.6%	4.1%	6.1%	6.3%	6.5%	100%

SULPHUR RIVER BASIN

07342500 South Sulphur River near Cooper, Texas

LOCATION: Lat 33°21'20", long 95°35'39", Hopkins-Delta County line, at the bridge on State Highways 19 and 154, 1.0 mi (1.6 km) downstream from Big Creek, 1.0 mi (1.6 km) upstream from Brushy Creek, 4.5 mi (7.2 km) downstream from Doctors Creek, and 5.6 mi (9.0 km) southeast of Cooper.

DRAINAGE AREA: 527 mi² (1,385 km²).

PERIOD OF RECORD: June 1942 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 371.91 ft (113.358 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1970, at datum 3.00 ft (0.914 m) higher. May 9, 1942 to Nov. 8, 1949, nonrecording gage, and Nov. 9, 1949 to May 13, 1955, water-stage recorder at site 700 ft (213 m) to right of present gage.

AVERAGE DISCHARGE: 34 years, 301,408 ac-ft/yr (371.6 hm³/yr).

EXTREMES: Period of record (1942-75): Maximum discharge, 42,500 ft³/s (1,200 m³/s) Dec. 10, 1971 (gage height, 26.15 ft or 7.971 m, from floodmark in gage well); no flow at times.

REMARKS: Records good. There are several small diversions upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1942	-	-	-	-	-	39020	2160	2960	10760	442	8180	27410	-
1943	194	2360	46300	6540	20870	39250	192	0	40	880	1250	4790	121834
1944	12480	38430	55870	14050	118500	17090	1130	3250	580	0	5380	38460	305220
1945	16550	84730	126800	36110	14370	59480	29650	111	8580	46390	3190	410	426002
1946	36380	79590	31630	24010	110300	41040	502	14240	246	199	124300	27670	490107
1947	8610	420	17490	22140	30330	5650	250	6570	355	254	18350	56130	166324
1948	39340	35760	41740	17250	71000	3030	3930	760	0	490	0	2180	214355
1949	102500	69600	43680	16520	16680	10910	5070	1450	991	54210	270	3280	325161
1950	58860	160500	7550	7960	91110	19310	8980	1420	77690	157	280	500	433615
1951	861	45340	645	312	4380	122100	10090	120	400	783	1220	322	186058
1952	3950	1890	5140	105600	33710	5960	120	0	0	0	15550	22330	194131
1953	11900	1160	28200	104200	55540	280	11910	551	240	142	8560	29450	251665
1954	43330	6680	131	12010	44040	3910	0	0	0	50710	12090	575	173476
1955	1320	22920	23150	18000	8840	650	2510	3290	845	1560	0	0	82500
1956	140	21620	330	413	23790	1470	0	0	0	0	2520	2050	51910
1957	6720	15800	50850	259200	207600	69690	407	4260	30500	30130	148700	11010	834867
1958	34460	849	54300	94870	141900	29480	15970	790	3280	584	852	741	377365
1959	1100	12730	8040	6730	2250	9080	20960	1570	1410	21150	18290	67490	170800
1960	49620	16490	10820	2240	15940	22850	11680	1640	7920	20070	772	11280	272842
1961	53250	18310	40070	9720	1080	14250	3710	1410	4670	660	15000	34090	195626
1962	13590	10470	5640	25690	7280	35860	19960	3410	68820	10050	41080	47600	289450
1963	12920	234	6020	8130	12250	1180	16640	440	0	0	0	400	57422
1964	130	103	9400	23020	18010	24300	400	0	22260	448	35880	1220	134658
1965	24530	117600	1410	594	119600	3630	430	270	6100	510	718	310	274334
1966	732	27530	890	201800	97930	730	504	2390	6500	1880	820	697	343008
1967	205	102	2020	55630	47990	77790	1200	101	23420	36800	20820	44670	310748
1968	35070	16480	102200	54850	81540	40920	27270	4280	21150	2960	25800	40120	452640
1969	62500	101600	70260	23640	180600	2540	360	90	06	5700	2470	29100	478447
1970	10330	58910	87920	60570	6300	3540	450	340	9020	45280	4450	1610	288009
1971	1130	8410	3910	790	101	131	320	10390	1880	127900	839	195200	350290
1972	4960	719	5790	275	795	874	340	800	247	14030	39370	17400	84502
1973	32040	34220	88310	107700	13760	36100	748	255	75640	78280	98570	37140	602763
1974	76570	3980	9300	86050	14540	112900	120	563	74040	9550	143400	67990	599003
1975	16610	140300	62330	45480	80320	86900	1790	239	480	300	520	209	434308
MAX	102500	160500	126800	259200	207600	122100	29650	14240	77690	127900	148700	195200	834867
MIN	130	102	330	790	101	280	0	0	0	0	0	0	51910
MEAN	23413	35025	31753	43981	51310	27659	5812	1901	13441	16469	23472	27172	301408
NO.	33	33	33	33	33	34	34	34	34	34	34	34	33
DISTR OF MEAN	7.8%	11.6%	10.5%	14.6%	17.0%	9.2%	1.9%	.6%	4.5%	5.5%	7.8%	9.0%	10%

SULPHUR RIVER BASIN

07343000 North Sulphur River near Cooper, Texas

LOCATION: Lat 33°28'25", long 95°38'15", Delta-Lamar County line, at the bridge on State Highway 19 and U.S. Highway 380, 2.3 mi (3.7 km) upstream from Auds Creek, 5.5 mi (8.8 km) upstream from Hickory Creek, and 8.7 mi (14.0 km) northeast of Cooper.

DRAINAGE AREA: 276 mi² (715 km²).

PERIOD OF RECORD: October 1949 to December 1975.

GAGE: Water-stage recorder and crest-stage gage. Datum of gage is 372.42 ft (113.51 m) above mean sea level. Prior to Nov. 8, 1949, nonrecording gage, Nov. 8, 1949 to May 21, 1960, water-stage recorder at site 50 ft (15 m) upstream at datum 9.00 ft (2.743 m) higher, and May 22, 1960 to Sept. 30, 1970, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE: 27 years, 181,232 ac-ft/yr (223.4 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 80,600 ft³/s (2,570 m³/s) Oct. 19, 1971 (gage height, 38.16 ft or 11.022 m, from floodmarks); no flow at times most years.

Maximum stage since at least 1915, that of Oct. 19, 1971.

REMARKS: Records good. In 1928-29, the channel was rectified for a distance of 28 mi (45 km) upstream and 18 mi (29 km) downstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	-	6740	77.0	3490	-
1950	72070	82370	1440	2620	64670	3830	20150	2210	34160	341	99.0	162	284122
1951	288	31320	819	2430	7310	102600	2030	35.0	357	3360	588	70.0	151207
1952	245	240	9280	71230	11860	3630	29.0	0	0	0	10310	4280	111104
1953	3320	575	16370	66840	22590	40.0	9960	1440	531	521	4460	12440	139087
1954	18870	9950	273	7670	52380	4180	0	0	8.30	34670	3150	550	131701
1955	1460	8520	21430	16940	5150	684	7240	1800	712	1800	0	0	63716
1956	324	39140	624	2610	16060	461	0	0	0	24.0	2160	374	61777
1957	1040	2550	20230	144200	146400	50810	487	3850	19200	5460	83650	8050	485927
1958	20640	1510	34190	56570	70020	33540	2020	77.0	443	53.0	324	340	219727
1959	251	1760	2510	217	359	26530	35490	4100	3930	10770	4660	40820	131397
1960	26660	14630	13930	2220	7200	17760	5790	5550	11190	23880	618	89150	218578
1961	18100	10470	38250	4840	3510	1610	1190	213	2680	30.0	7640	17970	106503
1962	13990	5850	10020	13280	2790	33490	2960	260	29530	14640	48800	2360	177970
1963	6240	525	4690	8690	1430	281	2410	21.0	0	0	2.00	25.0	24314
1964	9.9	168	10730	19810	14330	15810	24.0	21.0	18660	93.0	18780	1930	100366
1965	9870	56310	3340	860	34520	1340	14.0	46.0	4690	5.70	182	46.0	111224
1966	86.0	7270	539	179500	22740	542	67.7	5000	4620	1570	74.0	7.19	222728
1967	235	495	4600	55370	68790	12520	3030	94.0	19700	17810	2780	31030	216454
1968	17160	12970	75190	37380	54420	50910	23680	2090	29690	6210	19720	23700	353120
1969	44020	21130	35970	8610	79770	2850	106	36.0	51.0	6260	367	22120	221290
1970	3030	59000	53850	41600	5140	462	15.0	0	11760	25260	8200	2670	210987
1971	2220	6920	3320	718	2340	72.0	2600	9830	2240	109700	4140	67300	211400
1972	3470	987	1070	176	150	308	47.0	347	13.0	17090	18060	6130	47848
1973	16080	19930	50660	46040	9650	16940	628	182	34760	75880	52920	17330	341020
1974	19930	2720	1490	16680	10480	49610	99.0	397	23620	30600	47760	15560	218946
1975	16970	61140	17310	13990	34350	32280	3590	149	115	8.80	41.0	108	180052
MAX	72070	82370	75190	179500	146400	102600	35490	9830	34780	109700	83650	89150	485927
MIN	9.9	168	273	176	150	40.0	0	0	0	0	0	0	24314
MEAN	12176	17556	16619	31580	28785	17811	4756	1452	9718	14547	12576	13656	181232
NO.	26	26	26	26	26	26	26	26	26	27	27	27	26
DISTR													
OF MEAN	6.7%	9.7%	9.2%	17.4%	15.9%	9.8%	2.6%	.8%	5.4%	8.0%	6.9%	7.5%	100%

SULPHUR RIVER BASIN
07343200 Sulphur River near Talco, Texas

LOCATION: Lat 33°23'11", long 95°07'57", Red River-Franklin County line, at the bridge on U.S. Highway 271, 2.2 mi (3.5 km) northwest of Talco, and 3.2 mi (5.1 km) downstream from Mustang Creek.

DRAINAGE AREA: 1,365 mi² (3,535 km²).

PERIOD OF RECORD: October 1956 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 290.82 ft (88.642 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 20 years, 1,063,180 ac-ft/yr (1,335.6 hm³/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 77,000 ft³/s (2,180 m³/s) Dec. 11, 1971 (gage height, 29.40 ft or 8.961 m, from floodmark); no flow at times in 1957, 1964-65, and 1970.

Floods in 1908 and 1914 each reached a stage of 27.5 ft (8.38 m).

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	0	10970	3300	-
1957	18400	48700	134100	618500	718500	337300	848	6280	55330	65850	397200	34850	2435858
1958	110600	3300	134900	188100	481600	72270	49830	1150	15960	2480	23740	3540	1088470
1959	6980	60920	28330	31080	5980	102000	115000	14020	10990	56060	46480	252300	730140
1960	156300	44030	39110	3460	35740	61560	72540	14390	77200	99570	9450	402500	1014870
1961	140400	59120	159700	78030	14960	16020	11830	2940	9320	313	46750	104800	644183
1962	73360	41240	26910	102400	35460	81470	60980	4240	160000	67140	152900	23550	829650
1963	46620	1520	31340	23340	23870	2530	22050	347	48.0	9.9	37.0	79.0	151791
1964	28.0	1450	38630	112300	24520	65630	103	203	50220	6650	97710	5870	403314
1965	71530	335000	10180	4690	303200	17680	171	104	11140	195	625	153	754668
1966	1800	84340	2180	481600	380400	1260	599	6210	17730	26370	108	3780	1006377
1967	1080	1770	11440	308800	170200	256500	44760	174	46700	74610	103600	173400	1193034
1968	116100	68910	384900	238200	333600	234800	59140	18750	78080	15760	123500	206700	1878440
1969	134900	479500	297600	84660	613100	10310	658	49.0	69.0	9430	8650	76730	1715656
1970	49980	194100	299100	211400	29790	8710	371	8.00	23230	135500	30110	7170	989469
1971	5570	23730	11450	671	9400	444	5720	60220	4440	369000	8870	678700	1178215
1972	19350	4870	11150	990	1960	2260	493	339	11.0	31300	173100	77060	322883
1973	105200	132400	446000	339800	50300	133400	2070	823	188800	252300	382500	139300	2172893
1974	173900	12410	11270	110800	30250	287400	328	938	175300	15320	430700	170500	1419116
1975	26130	316600	127900	71400	185200	177400	11290	2050	238	70.0	208	562	919048
MAX	173900	479500	446000	618500	718500	337300	115000	60220	188800	369000	430700	678700	2435858
MIN	28.0	1450	2180	671	1960	444	103	8.00	11.0	0	37.0	79.0	151791
MEAN	66223	100732	116115	158433	181475	98367	24094	7012	48727	61396	102360	118246	1083180
NO.	19	19	19	19	19	19	19	19	19	20	20	20	19
DISTR													
OF MEAN	6.1%	9.3%	10.7%	14.6%	16.8%	9.1%	2.2%	.6%	4.5%	5.7%	9.4%	10.9%	100%

SULPHUR RIVER BASIN

07343300 Curthand Creek near Bogata, Texas

LOCATION: Lat 33°32'51", long 95°10'22", Red River County, at the bridge on State Highway 37, 6.0 mi (9.7 km) northeast of Bogata, and 8 mi (13 km) upstream from Scattar Creek.

DRAINAGE AREA: 69 mi² (179 km²).

PERIOD OF RECORD: October 1963 to September 1974.

GAGE: Water-stage recorder. Datum of gage is 352.44 ft (107.42 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 49,649 ac-ft/yr (61.2 hm³/yr).

EXTREMES: Period of record (1963-74): Maximum discharge, 20,400 ft³/s (578 m³/s) Dec. 10, 1971, gage height, 21.68 ft (6.58 m); no flow at times each year.

Maximum stage since at least 1950, that of Dec. 10, 1971.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	0	0	-
1964	0	373	4800	8560	1080	812	0	14.0	2590	33.0	1710	289	20261
1965	5810	19450	850	375	6910	876	0	0	214	20	110	0	34485
1966	48.0	3900	60.0	29610	6560	14.0	1.0	61.0	447	4060	20	695	45455
1967	54.0	152	995	18910	19450	3720	1060	0	23.0	5510	712	5040	55626
1968	5490	2040	19980	11960	9080	9470	232	6.50	471	184	3900	8660	71474
1969	15200	14130	10020	3340	25760	64.0	4.0	0	0	6.80	60	2000	70522
1970	517	7190	16400	7160	924	66.0	9.0	0	0	373	738	32.0	33401
1971	422	1330	1310	14.0	2210	8.30	956	406	1.80	4220	320	41740	52936
1972	767	456	71.0	17.0	2.00	0	0	0	0	1660	6500	3780	13255
1973	5650	6790	24780	22700	1530	6280	3.20	0	2450	9650	18350	12020	110203
1974	11400	1090	159	408	863	14940	9.0	0	9660	-	-	-	-
MAX	15200	19450	24780	29610	25760	14940	1060	406	9660	9650	18350	41740	110203
MIN	0	152	60.0	14.0	2.00	0	0	0	0	0	0	0	13255
MEAN	4123	5173	7220	9369	6761	3295	205	44.3	1442	2336	2930	6751	49649
NO.	11	11	11	11	11	11	11	11	11	11	11	11	10
DISTR OF MEAN	8.3%	10.4%	14.5%	18.9%	13.6%	6.6%	4%	1%	2.9%	4.7%	5.9%	13.6%	100%

SULPHUR RIVER BASIN

07343500 White Oak Creek near Talco, Texas

LOCATION: Lat 33°19'20", long 95°05'33", Titus County, at the bridge on U.S. Highway 271, 0.8 mi (1.3 km) downstream from Lewis Creek, 2.4 mi (3.9 km) upstream from Ripley Creek, and 2.7 mi (4.3 km) south of Talco.

DRAINAGE AREA: 494 mi² (1,279 km²).

PERIOD OF RECORD: December 1846 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 286.45 ft (87.310 m) above mean sea level, datum of 1829.

AVERAGE DISCHARGE: 27 years, 340,098 ac-ft/yr (419.3 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 48,000 ft³/s (1,360 m³/s) Dec. 11, 1971 (gage height, 21.20 ft or 6.462 m); no flow at times in 1954, 1956, 1964-65, and 1969-73.

Maximum stage since at least 1870, 22.9 ft (6.98 m) Mar. 31, 1946, from floodmarks and from information by local residents.

REMARKS: Records good. There are several small diversions above the station for municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	-	-	-	108 40	-
1950	71520	199500	39870	9030	114200	10790	11630	9170	63320	680	371	454	530535
1951	6260	72600	2930	1460	6680	26510	11620	97.0	1130	1190	3980	9730	144187
1952	26590	9980	14660	167600	38840	2880	3630	85.0	35.0	42.0	27920	63940	356202
1953	23940	11770	28570	66930	123100	326	19270	990	5780	818	4360	30350	318204
1954	63460	31470	2260	4430	49460	548	43.0	1.60	8.30	31430	18320	2010	203441
1955	4420	12300	12190	35540	1800	301	887	1430	1380	1790	64.0	91.0	72193
1956	236	28550	726	296	17820	165	22.0	15.0	24.0	29.0	13230	114	61227
1957	8050	17470	64660	225200	172200	66510	832	1160	18500	37740	157600	14760	784682
1958	70750	2500	51790	159400	165200	40150	39520	1640	13190	1620	9960	3900	559620
1959	1200	56090	41400	27900	2000	7340	11050	3330	623	15340	13750	99930	279953
1960	81980	22630	24260	1600	2140	6770	7420	714	7440	15090	6810	135200	312054
1961	54870	37540	55510	33120	1210	19280	13840	3270	2930	738	26670	47580	296558
1962	33170	29030	23430	36750	25910	5680	6620	1230	23550	10860	31640	22330	250200
1963	20000	1780	5700	8220	38200	5190	3710	311	98.0	2.40	29.0	164	83404
1964	112	3160	8390	42810	5910	12280	29.0	2150	29540	1770	13740	1110	121001
1965	5680	94400	7670	2790	121300	20410	129	14.0	2770	85.0	119	69.0	255436
1966	4390	41240	2870	216900	164600	817	2410	4690	9960	16490	350	3460	468177
1967	2860	3840	7070	54380	56370	55700	4420	327	3480	10770	59420	49520	308157
1968	35860	28210	119900	30090	114200	21910	6860	708	9190	348	6230	38310	411816
1969	12810	130200	93200	39380	149100	1700	220	7.40	9180	7.40	1430	9060	446295
1970	21090	45850	101600	113500	8530	5080	3190	1370	4270	32800	7690	1270	346240
1971	2850	15670	6890	453	721	182	13710	9740	933	37730	2080	245100	336059
1972	27610	7080	5750	1130	788	3860	292	1.00	280	16190	70160	53070	186211
1973	41030	54010	134400	138600	7390	55160	3120	47.0	23580	43870	152400	72260	725867
1974	100600	9830	10840	64490	6480	70950	524	1130	51570	13850	177600	74850	582714
1975	12750	160300	66810	36510	102700	42540	3310	2520	113	107	20.0	259	427939
MAX	100600	199500	134400	225200	172200	70950	39520	9740	63320	43870	177600	245100	784682
MIN	112	1780	726	296	721	165	22.0	1.00	8.30	2.40	20.0	69.0	61227
MEAN	28234	43346	35898	58481	57571	18578	6473	1775	10880	11207	30998	36657	340098
NO.	26	26	26	26	26	26	26	26	26	26	26	27	26
DISTR													
OF MEAN	8.3%	12.7%	10.6%	17.2%	16.9%	5.5%	1.9%	.5%	3.2%	3.3%	9.1%	10.8%	100%

SULPHUR RIVER BASIN

07343800 White Oak Creek below Talco, Texas

LOCATION: Lat 33°18', long 95°01', Titus County, 4 mi (6.4 km) downstream from Ripley Creek, 5 mi (8.0 km) upstream from Green Creek, and 6 mi (9.6 km) southeast of Talco.

DRAINAGE AREA: 579 mi² (1,489.6 km²).

PERIOD OF RECORD: October 1937 to November 1949.

GAGE: Wire-weight gage. Datum of gage is 274.34 ft (83.6 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 581,480 ac-ft/yr (717.0 hm³/yr).

EXTREMES: Period of record [1937-49]: Maximum discharge, 83,100 ft³/s (2,353.4 m³/s) March 31, 1945 (gage height, 24.1 ft or 7.3 m); no flow at times.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1937	-	-	-	-	-	-	-	-	-	605	25840	177000	-
1938	271400	100500	54030	153200	1140	7540	3740	163	152	0	1870	241	593976
1939	12240	111200	35700	32820	642	1500	1340	9.3	0	13.0	80.0	170	195714
1940	267	4120	3520	64190	40760	32400	25110	390	821	64.0	47090	92440	311172
1941	25900	34670	94150	82220	130200	43240	15590	3510	1140	878	6840	17540	455878
1942	2860	7520	24660	280100	49440	28240	2430	2250	3770	473	2700	30840	435283
1943	11170	3260	33920	8330	14490	92610	930	244	732	3770	231	4030	173717
1944	13960	29560	95000	21010	183100	25680	663	410	3010	505	7930	35520	416348
1945	48460	104500	353500	142600	37150	184000	129200	3130	3340	143300	17280	2810	1169270
1946	184100	267600	79040	41160	306400	163800	2220	4330	5510	1380	171700	92230	1319470
1947	36890	3740	46910	80720	126500	3500	724	839	2570	823	57440	180000	540656
1948	46060	94190	101900	18650	220500	2580	3200	1510	833	1190	2040	1620	494273
1949	145900	137100	59050	30200	59500	5920	2810	1050	2380	280700	3818	-	-
MAX	271400	267600	353500	280100	306400	184000	129200	4330	5510	280700	171700	180000	1319470
MIN	267	3260	3520	8330	642	1500	663	9.3	0	0	80.0	170	173717
MEAN	66601	74830	81782	79600	97485	49251	15663	1486	2022	33362	26528	52878	581480
NO.	12	12	12	12	12	12	12	12	12	13	13	12	11
DISTR													
OF MEAN	11.5%	12.9%	14.1%	13.7%	16.8%	8.5%	2.7%	.3%	.3%	5.7%	4.6%	9.1%	100%

SULPHUR RIVER BASIN

07344000 Sulphur River near Darden, Texas

LOCATION: Lat 33°15', long 94°37', Bowie-Cass County line, at the bridge on U.S. Highway 67, 0.6 mi (1.0 km) upstream from the St. Louis-Southwestern Railway Co. bridge, and 1 mi (1.6 km) southwest of Darden.

DRAINAGE AREA: 2,774 mi² (7,185 km²).

PERIOD OF RECORD: October 1923 to December 1956.

GAGE: Wire-weight gage. Datum of gage is 220.61 ft (67.2 m) above mean sea level, datum of 1929. Prior to October 26, 1934, staff gage at the St. Louis-Southwestern Railway Co. bridge 0.8 mi (1.0 km) downstream at same datum. October 26, 1934 to February 12, 1942, water-stage recorder at site 780 ft (237.7 m) downstream at same datum.

AVERAGE DISCHARGE: 34 years, 1,665,633 ac-ft/yr (2,053.7 hm³/yr).

EXTREMES: Period of record (1923-56): Maximum discharge, 157,000 ft³/s (4,446.2 m³/s) April 1, 1945 (gage height, 37.66 ft or 11.4 m); no flow at times.

Maximum stage known since at least 1909, that of April 1, 1945.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	12300	6620	587000	-
1924	147900	97960	247500	38760	59630	225100	1040	49.0	14810	1220	315	902	835186
1925	3860	6380	6870	84000	192800	47120	3250	6110	254	6300	53180	2580	412704
1926	156600	32480	129600	189500	174600	44110	389400	159100	42610	116600	36380	399100	1870080
1927	210000	187700	613700	620600	94140	46860	62650	9150	6430	62700	20600	74400	2008930
1928	36000	47200	73800	318000	223000	244000	126000	15900	180	14200	53400	499000	1650680
1929	402000	170000	250000	50500	422000	68400	24000	299	16400	812	31100	56900	1492411
1930	121000	290000	96500	22800	1160000	28300	4150	311	79.0	12100	14500	111000	1860740
1931	2730	37500	167000	68400	39700	2590	35000	12500	10200	3440	1890	218000	598950
1932	904000	350000	136000	41700	36100	11000	124000	532	158	135	51.0	26400	1630076
1933	351000	34700	374000	57700	240000	67200	45700	17000	7800	42050	2250	9310	1248710
1934	82580	34280	280400	296100	38730	8420	170	12.0	63.0	0	19680	34550	794985
1935	403400	81790	100700	212300	856200	816600	23020	2220	7050	10410	63390	122600	2699680
1936	4330	3340	20310	948	165000	5080	7620	105	2730	62150	17710	118400	407923
1937	438100	74760	387700	226100	26670	6290	2110	10560	5360	5210	109300	279300	1571460
1938	1005000	506200	104300	702800	8690	131400	6530	3920	939	46.0	5180	505	2475510
1939	30780	282400	263800	423000	11340	16960	6520	58.0	1.40	0	2.20	846	1035708
1940	303	10720	10370	283800	257700	263100	236300	1010	3830	418	184200	442700	1694451
1941	209600	152900	346200	252800	762200	475600	168100	15230	5010	24400	64400	146100	2622540
1942	23240	60440	161400	982400	464400	196500	9220	5110	22210	1420	20100	60940	2007380
1943	114000	17770	274900	122400	28160	245300	9370	569	1060	7700	5810	24600	851639
1944	78640	181300	539100	166400	754700	214400	3470	2150	22540	455	50430	208400	2221985
1945	308200	446600	1146600	1101000	105100	516700	132400	6910	3090	356700	27910	4510	4155720
1946	389000	715800	158000	207200	720700	455000	7910	9230	18910	2140	744100	268800	3696790
1947	105400	13970	173700	212800	373500	17110	2920	9850	9850	569	80570	420100	1420339
1948	257000	301600	352200	73730	579300	25300	14520	3920	443	644	1550	4160	1614367
1949	362700	436500	384800	151000	180600	58640	15610	9000	5490	393500	61260	48330	2107430
1950	470100	1009000	146900	20510	664900	76570	33120	62090	481900	13150	2060	1480	2981780
1951	34160	423900	51920	21560	49250	347000	45580	2770	7200	10520	18450	39110	1051420
1952	124900	53220	97310	609700	221400	63620	9210	2250	36.0	24.0	45300	270000	1696970
1953	113200	140500	160800	174600	868400	4630	42920	5350	8690	784	19560	102200	1641634
1954	244000	123800	13930	59350	471200	31850	336	30.0	0	72330	116200	10380	1145486
1955	15550	80910	157500	209200	35580	5240	35240	15750	23220	57490	625	1100	637405
1956	1780	277000	7740	4220	124500	5010	1850	1160	918	924	19010	3960	448072
MAX	1005000	1009000	1146600	1101000	1160000	816600	389400	159100	481900	393500	744100	587000	4155720
MIN	303	3340	6870	948	8690	2590	170	12.0	0	0	2.20	505	407923
MEAN	216699	202504	225320	248663	315460	144576	49377	11824	22105	38025	55855	135225	1665633
NO.	33	33	33	33	33	33	33	33	33	34	34	34	33
DISTR													
OF MEAN	13.0%	12.2%	13.5%	14.9%	18.9%	8.7%	3.0%	.7%	1.3%	2.3%	3.4%	8.1%	100%

SULPHUR RIVER BASIN

07344200 Wright Patman Lake near Texarkana, Texas

LOCATION: Lat 33°18'16", long 94°09'38", Bowie-Cass County line, in intake structure of Texarkana Dam on the Sulphur River, 0.5 mi (0.8 km) upstream from the U.S. Highway 59 bridge, and 10 mi (16 km) southwest of Texarkana.

DRAINAGE AREA: 3,443 mi² (8,917 km²).

PERIOD OF RECORD: July 1953 to December 1975. Published as "Texarkana Reservoir" prior to October 1970 and as "Lake Texarkana" from October 1970 to September 1972.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. July 19 to Dec. 31, 1953, nonrecording gage at site about 125 ft (38 m) upstream at datum 200 ft (61.0 m) higher.

EXTREMES: Period of record (1953-75): Maximum contents, 1,912,100 ac-ft (2,357.6 hm³) May 9, 1966 (elevation, 262.64 ft or 77.005 m); minimum contents since the first appreciable storage and after deliberate impoundment began, 137,600 ac-ft (169.5 hm³) Sept. 5, 1958.

REMARKS: The lake is formed by a rolled earthfill dam 18,500 ft (5,640 m) long, including a 200-foot (61-m) uncontrolled spillway and a 1 mi (1.6 km) long dike. The capacity of the lake is 145,300 ac-ft (179.2 hm³). Temporary impoundment of water began on July 2, 1953 and deliberate impoundment began on June 27, 1956. The dam was completed in December 1957. The flood-control outlet works consist of two 20.0-foot diameter (6.1-m) conduits controlled by four 10.0- by 20.0-foot (3.0- by 6.1-m) electrically driven broome-type gates. Flow discharging over the spillway passes into an outlet channel and then to the Sulphur River. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	-	-	-	-	-	-	16000	3900	3000	2800	6000	6600
1954	87100	43270	9760	8510	162200	3270	2820	2640	2580	11370	3810	4900
1955	4450	13550	78420	62750	8150	3430	7730	3310	8740	3340	3000	3150
1956	3980	83190	4550	3670	3580	4760	6850	6050	5200	4990	28160	31660
1957	54880	155200	337800	681100	1306000	1213000	436100	209200	199100	189300	691600	196700
1958	294000	153600	203000	470500	1332000	886700	469300	211400	185200	205000	287100	326500
1959	156700	183100	172600	227300	257400	248400	229700	205300	189600	173800	162000	351300
1960	331000	174400	192000	193500	246700	245800	222800	206500	195200	204300	162000	484300
1961	229700	168300	234900	272400	258600	278100	229900	204000	189100	177200	175800	181500
1962	184700	195900	186300	224900	257200	243900	221200	204000	187200	180200	173300	158200
1963	152700	149500	199100	207500	264500	235700	229100	204500	191500	176700	162200	156100
1964	152300	153600	165400	393600	264200	330700	301700	296400	290400	177870	177650	155660
1965	161270	495030	193660	194150	404160	337040	310810	293000	283660	177500	160000	155100
1966	153900	157800	154100	689000	1595200	979300	396800	292700	274400	180300	161300	195400
1967	159800	158700	174600	315300	384600	336400	326100	304500	213800	192700	150100	180300
1968	164400	159600	466700	288200	478000	384900	359600	297300	289100	182200	184500	194500
1969	165000	495000	436600	275500	657900	336500	312400	295200	274300	184990	165220	180380
1970	152820	188500	325280	347960	275480	288130	280890	280280	275180	196250	164330	161750
1971	154940	163040	156850	158550	174890	169870	209080	300980	274280	363660	163470	1014900
1972	527120	158120	171010	175800	176720	174660	175340	165850	173520	191360	173290	179700
1973	174430	167830	467910	676000	372820	340180	314040	287220	275180	195760	481230	341860
1974	261730	167830	177400	303200	307020	559190	307020	300980	307340	187800	410500	382100
1975	158700	535800	283400	268200	375400	346100	314000	293600	267000	170510	158930	159150
MAX	527120	535800	467910	689000	1595200	1213000	469300	304500	307340	363660	691600	1014900
MIN	3980	13550	4550	3670	3580	3270	2820	2640	2580	2800	3000	3150
MEAN	176619	196366	217788	292618	434669	361183	246925	211687	198025	162170	191543	226161
NO.	22	22	22	22	22	22	23	23	23	23	23	23
DISTR OF MEAN	6.1%	6.7%	7.5%	10.0%	14.9%	12.4%	8.5%	7.3%	6.8%	5.6%	6.6%	7.8%

CYPRESS CREEK BASIN

07344482 Big Cypress Creek near Winstonsboro, Texas

LOCATION: Lat 33°01'24", long 95°18'12", Franklin County, at the bridge on State Highway 37, 0.3 mi (0.5 km) downstream from Glade Branch, 1.8 mi (2.9 km) upstream from Little Cypress Creek, and 4.7 mi (7.6 km) north of Winstonsboro.

DRAINAGE AREA: 27.2 mi² (70.4 km²).

PERIOD OF RECORD: April 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 375.83 ft (114.553 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1974-75): Maximum discharge 4,320 ft³/s (122 m³/s) Nov. 24, 1974 (gage height, 12.39 ft or 3.776 m); no flow Aug. 24, 1974.

REMARKS: Records good. The flow is affected slightly by Lake Franklin located upstream on Glade Branch.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	4400	533	1030	83.0	1340	4800	1620	7950	3230	-
1975	1470	7590	3630	2360	4350	451	151	805	190	784	1020	668	23469
MAX	1470	7590	3630	4400	4350	1030	151	1340	4800	1620	7950	3230	23469
MIN	1470	7590	3630	2360	533	451	83.0	805	190	784	1020	668	23469
MEAN	1470	7590	3630	3380	2442	741	117	1073	2495	1202	4485	1949	30574
NO.	1	1	1	2	2	2	2	2	2	2	2	2	1
DISTR OF MEAN	4.8%	24.8%	11.9%	11.1%	8.0%	2.4%	.4%	3.5%	8.2%	3.9%	14.7%	6.4%	100%

CYPRESS CREEK BASIN

07344484 Lake Cypress Springs near Newsome, Texas

LOCATION: Lat 33°03'45", long 96°08'20", Franklin County, on the steel tower 100 ft (30 m) upstream from the left end of the dam, 2.2 mi (3.5 km) upstream from Brushy Creek, and 5.9 mi (9.5 km) north of Newsome.

DRAINAGE AREA: 75.0 mi² (194.2 km²).

PERIOD OF RECORD: July 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, datum of 1929.

EXTREMES: Period of record (1973-75): Maximum contents, 83,770 ac-ft (103 hm³) Feb. 2, 1975 (elevation, 381.00 ft or 118.129 m); minimum contents, 70,890 ac-ft (87.4 hm³) Oct. 11, 1973 (elevation, 377.42 ft or 115.038 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,230 ft (1,590 m) long, with a capacity of 72,850 ac-ft (89.8 hm³). Deliberate impoundment began on July 7, 1970 and the dam was completed on Feb. 15, 1971. The emergency spillway is an excavated channel cut through natural ground 1,000 ft (305 m) wide located to the left of the left end of the dam. The service spillway is a rectangular 23- by 23-foot (7- by 7-m) drop inlet located near the right end of the dam. The lowflow outlet works consist of an 18-inch diameter (457-millimeter) concrete pipe that has duplicate valve controls and discharges into the service spillway conduit. The dam is operated by the Franklin County Water District.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1973	-	-	-	-	-	-	66800	63440	65120	79200	75950	75520
1974	75520	73570	73470	75630	73330	73120	71490	74330	74930	76660	77380	74820
1975	78250	74860	75170	75980	75910	74060	72610	72640	71260	70180	69820	69890
MAX	78250	74860	75170	75980	75910	74060	72610	74330	74930	79200	77380	75520
MIN	75520	73570	73470	75630	73330	73120	66800	63440	65120	70180	69820	69890
MEAN	76885	74215	74320	75805	74620	73590	70300	70137	70437	75347	74383	73410
NO.	2	2	2	2	2	2	3	3	3	3	3	3
DISTR OF MEAN	8.7%	8.4%	8.4%	8.6%	8.4%	8.3%	8.0%	7.9%	8.0%	8.5%	8.4%	8.3%

CYPRESS CREEK BASIN

07344500 Big Cypress Creek near Pittsburg, Texas

LOCATION: Lat 33°01'15", long 94°52'55", Camp-Titus County line, at the bridge on State Highway 11, 0.5 mi (0.8 km) upstream from the Louisiana & Arkansas Railway Co. bridge, 1.4 mi (2.3 km) upstream from Williamson Creek, and 5.2 mi (8.4 km) east of Pittsburg.

DRAINAGE AREA: 366 mi² (948 km²).

PERIOD OF RECORD: March 1943 to December 1962 (published as "Cypress Creek near Pittsburg"), October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 247.49 ft (75.436 m) above mean sea level, datum of 1929. Prior to Nov. 12, 1954, water-stage recorder at site 1,900 ft (579 m) downstream at present datum.

AVERAGE DISCHARGE: 29 years (1943-62, 1967-75), 246,019 ac-ft/yr (302.1 hm³/yr).

EXTREMES: Period of record (1943-62, 1967-75): Maximum discharge, 58,500 ft³/s (1,660 m³/s) Mar. 30, 1945 (gage height, 28.3 ft or 8.63 m, from floodmark and adjusted to present site on the basis of the record for the flood of Apr. 27, 1958); no flow Aug. 20 to Oct. 3, 1954 and July 19 to Nov. 4, 1956.

Maximum stage since at least 1895, that of Mar. 30, 1945.

REMARKS: Records good. There are several small diversions upstream for municipal water supply. The flow from 111 mi² (287 km²) above this station is partly controlled by Lake Cypress Springs and Monticello Reservoir with a combined capacity of 112,900 ac-ft (139 hm³). Construction began during 1975 on Fort Sherman Dam located on Big Cypress Creek between Lake Cypress Springs and this station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1943	-	-	-	2 970	6 280	2 8650	1 210	206	1 71	1 970	4 18	2 750	-
1944	10 980	3 5630	4 7890	3 6 940	11 4600	9 260	400	2 39	1 200	1 62	7 400	4 38 20	30 8521
1945	38 050	6 05 50	2 60300	5 6 520	2 09 20	8 86 20	1 6330	1 950	1 120	2 8020	8 310	8 5 70	5 89 260
1946	81 430	6 7120	4 2040	1 8 610	1 6 3500	4 9 650	2 940	1 560	1 320	1 430	7 0700	2 92 20	5 29 520
1947	32 940	8 330	3 0010	3 7 370	2 6200	3 330	6 51	2 85	2 360	6 85	2 6980	6 92 90	2 38 431
1948	3 9880	5 4720	4 7310	1 8 680	8 08 40	2 620	1 360	4 25	5 93	5 77	1 920	2 2 30	2 51 155
1949	5 3270	2 9250	3 0010	2 2 100	1 24 10	4 550	2 680	9 16	2 420	1 04 200	7 900	1 56 10	2 85 316
1950	84 130	1 36 900	3 6210	11 580	11 08 00	1 2720	5 980	3 660	5 8250	3 340	2 440	30 20	4 69 030
1951	1 6590	5 7250	1 3050	8 660	8 640	5 470	5 190	2 48	1 190	9 49	2 120	31 30	1 22 487
1952	1 5320	6 280	2 0370	1 06 200	3 3360	8 640	1 090	2 02	50 0	1 14	3 900	2 19 90	2 17 516
1953	1 2560	1 6850	1 3990	1 9540	9 2980	9 92	6 860	1 270	4 390	8 80	2 560	1 69 70	1 89 842
1954	3 4650	1 0300	4 410	3 990	3 5050	7 560	1 41	21 0	0	1 360	1 540	4 3 80	1 03 402
1955	3 970	8 770	2 0790	21 440	1 780	7 98	1 20	1 660	8 67	4 150	4 02	1 4 10	6 6 157
1956	1 420	2 7910	3 130	1 650	8 620	1 19	9 3	0	0	0	1 99	4 51	4 35 08
1957	804	3 670	2 0200	9 4450	5 2470	4 3610	1 040	5 10	4 720	1 3800	8 3700	1 49 20	3 33 894
1958	4 5510	5 740	3 1870	1 52 200	8 5710	2 4590	1 5740	3 670	7 690	2 620	2 2070	9 8 50	4 07 260
1959	3 670	2 2650	3 1060	3 0770	8 190	3 790	5 600	1 770	1 460	1 380	2 940	3 51 50	1 48 430
1960	6 4190	2 5330	2 5620	4 280	3 470	8 400	1 2560	5 84	5 620	5 570	5 450	7 05 70	2 31 634
1961	3 4310	3 0650	3 5710	1 4 380	3 950	1 9410	7 530	1 560	1 680	1 130	1 2860	3 43 20	1 97 490
1962	3 3730	2 5780	2 8510	2 2 820	1 3080	4 960	2 710	3 79	3 010	2 090	7 550	71 90	1 51 809
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	1 550	4 280	1 45 10	-
1968	3 5400	1 9520	4 5130	2 2 280	6 4710	2 4240	3 720	1 460	1 3260	1 970	1 2220	3 43 50	2 78 260
1969	9 900	7 1220	6 8790	3 4700	6 4870	2 360	5 17	2 75	3 22	3 96	2 060	4 9 90	2 60 400
1970	8 750	1 7780	5 5190	4 1010	6 840	3 490	5 31	5 29	1 38	1 240	1 270	1 200	1 37 968
1971	2 280	7 020	5 170	1 460	1 300	3 98	5 310	2 520	2 86	5 28	4 340	4 42 00	7 48 12
1972	2 6990	7 160	5 290	1 570	1 020	4 900	6 10	1 84	3 16	1 790	9 630	1 80 60	7 75 20
1973	2 4760	2 1730	6 1060	6 3520	1 2990	3 1000	1 250	8 50	4 360	1 3750	6 2660	4 18 50	3 39 780
1974	4 6270	1 5760	4 720	5 8 320	1 04 10	2 8080	6 23	1 330	6 3360	1 2390	9 1950	5 53 50	3 88 563
1975	2 6620	7 8740	6 4450	3 1180	7 2850	1 6570	2 900	7 35	4 45	5 62	9 01	1 2 50	2 97 203
MAX	84 130	1 36 900	2 60300	1 52 200	1 6 3500	8 8620	1 6 330	3 670	6 3360	1 04 200	9 1950	7 05 70	5 89 260
MIN	804	3 670	3 130	1 460	1 020	1 19	9 3	0	0	0	1 99	4 51	4 35 08
MEAN	2 9199	3 2319	3 8973	3 3543	3 9923	1 5671	3 772	1 036	6 450	7 193	1 5885	2 10 55	2 45 019
NO.	27	27	27	28	28	28	28	28	28	29	29	29	27
DISTR OF MEAN	11.9%	13.2%	15.9%	13.7%	16.3%	6.4%	1.5%	.4%	2.6%	2.9%	6.5%	8.6%	100%

CYPRESS CREEK BASIN

07345000 Boggy Creek near Daingerfield, Texas

LOCATION: Lat 33°02'10", long 94°47'15", Morris County, at the bridge on State Highway 11, 0.4 mi (0.6 km) upstream from the Louisiana & Arkansas Railway Co. bridge, 3.8 mi (6.1 km) west of Daingerfield, and 9 mi (14 km) upstream from the mouth.

DRAINAGE AREA: 72 mi² (186 km²).

PERIOD OF RECORD: April 1943 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 258.41 ft (78.763 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1954, at site 1,700 ft (518 m) downstream at same datum.

AVERAGE DISCHARGE: 33 years, 57,742 ac-ft/yr (71.2 km³/yr).

EXTREMES: Period of record (1943-75): Maximum discharge, 28,900 ft³/s (818 m³/s) Apr. 27, 1958 (gage height, 17.80 ft or 5.425 m); no flow at times most years.

Maximum stage since at least 1900, that of Apr. 27, 1958.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1943	-	-	-	852	2410	3580	204	0	0	48.0	0	450	-
1944	1980	12780	17400	11460	41930	1630	172	119	358	0	710	15530	104069
1945	11230	21280	73510	21130	6410	15720	1850	115	30.0	667	843	1340	154125
1946	13540	13380	5190	3320	35420	9930	551	682	387	226	23460	5390	111476
1947	6750	3060	7800	6610	3980	396	24.0	0	157	95.0	6120	16810	52002
1948	9700	17800	16240	6710	22330	745	386	2.00	0	0	78.0	257	74248
1949	13360	6060	5650	4840	2030	758	636	169	616	35400	2230	4000	75749
1950	23360	41030	8260	2520	39810	2300	528	190	26980	1110	726	829	147643
1951	3130	16000	3730	2270	1700	916	674	4.0	139	28.0	303	638	29528
1952	1760	1380	4060	25050	6550	899	67.0	0	0	0	683	6190	46639
1953	3760	5100	4850	6260	24210	138	634	21.0	89.0	4.0	324	2190	47576
1954	6040	2000	972	535	13070	3060	7.10	0	0	4.40	23.0	416	26127
1955	730	1970	6150	6360	582	83.0	4.00	67.0	32.0	40.0	0	13.0	16031
1956	162	5060	1050	330	902	0	0	0	0	0	0	0	7504
1957	4.0	610	2100	22650	8230	9900	450	199	901	3540	29450	4850	82880
1958	12630	3110	7790	68820	16910	2920	5380	229	362	308	854	912	120225
1959	743	5570	8040	7280	3840	1580	493	167	77.0	60.0	372	3720	31942
1960	12400	5800	6360	1180	1100	1510	2710	118	985	1310	1070	17470	52013
1961	8240	6940	10160	3370	991	2910	957	120	37.0	335	2490	11270	47820
1962	10240	11500	9600	5760	2520	1350	425	6.10	189	2850	4930	3140	52512
1963	2830	1300	3860	3410	2080	168	20.0	0	0	0	0	105	13693
1964	95.0	850	3070	5960	638	123	0	438	511	79.0	510	730	13004
1965	2450	16470	4240	1520	3930	638	21.0	0	104	1.0	0	54.0	29427
1966	368	1290	971	27920	9640	162	22.0	0	43.0	8.00	127	1200	41751
1967	841	653	1190	5510	7470	4660	614	2.0	44.0	71.0	168	4110	25331
1968	7790	3660	7200	4540	9430	10670	1380	606	4700	783	5440	8470	64669
1969	3200	16040	15660	8910	8550	282	44.0	0	4.0	17.0	229	1780	54712
1970	2990	5840	12440	11760	1250	1000	555	0	0	48.0	327	561	36771
1971	931	3710	1850	514	285	2.20	1720	1520	38.0	79.0	1210	9250	20909
1972	8460	2630	2670	639	462	290	12.0	0	22.0	322	3580	4740	23827
1973	7130	6350	18880	26130	2100	5710	651	14.0	895	2330	18220	8660	97070
1974	10390	4260	2030	21460	1620	10450	122	570	12610	5070	20780	12880	102242
1975	6910	21260	16750	7430	15670	1900	402	26.0	31.0	0	116	577	71074
MAX	23360	41030	73510	68820	41930	15720	5380	1520	26980	35400	29450	17470	154125
MIN	4.0	610	971	330	285	0	0	0	0	0	0	0	7504
MEAN	6067	8273	9048	10097	9029	2921	658	163	1525	1661	3799	4501	57742
NO.	32	32	32	33	33	33	33	33	33	33	33	33	32
DISTR OF MEAN	10.5%	14.3%	15.7%	17.5%	15.6%	5.1%	1.1%	.3%	2.6%	2.9%	6.6%	7.8%	100%

CYPRESS CREEK BASIN

07345500 Ellison Creek Reservoir near Lone Star, Texas

LOCATION: Lat 32°55'16", long 94°43'17", Morris County, at the pumphouse of the Lone Star Steel Co., on the left bank 1,700 ft (518 m) upstream from Ellison Creek Dam, 0.8 mi (1.0 km) upstream from Big Cypress Creek, and 1.4 mi (2.3 km) southwest of Lone Star.

DRAINAGE AREA: 37.0 mi² (95.8 km²).

PERIOD OF RECORD: January 1943 to September 1962 (published as "near Daingerfield"), October 1973 to December 1975.

GAGE: Water-stage recorder, Datum of gage is at mean sea level. Prior to Sept. 22, 1943, staff gage at site just upstream from dam at datum 200 ft (61.0 m) lower.

EXTREMES: Period of record (1943-62, 1973-75): Maximum contents, 31,240 ac-ft (38.5 hm³) | Apr. 26, 1968 (elevation, 272.11 ft or 82.939 m); minimum contents since the lake was first filled in May 1944, 16,840 ac-ft (20.5 hm³) Jan. 3, 1957 (elevation, 262.07 ft or 79.879 m).

REMARKS: The reservoir is formed by a rolled earthfill dam, 4,000 ft (1,200 m) long, with an uncontrolled concrete spillway 300 ft (91 m) long at the left end of the dam. The capacity of the reservoir is 24,700 ac-ft (30.4 hm³). Deliberate impoundment began on Jan. 14, 1943 and the dam was completed in April 1943. Another spillway is cut through natural ground near the right end of the dam. In addition, there is a relief dam, approximately 125 ft (38 m) long, located near the reservoir pumphouse that can be breached if the other spillways are unable to release sufficient floodwater. There is a 36-inch diameter (914-millimeter) conduit through the dam that is used for pumping water from Big Cypress Creek into the reservoir and can also be used to discharge water from the reservoir into Big Cypress Creek. The dam is owned by the Lone Star Steel Co.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1943	569	1720	2900	3450	4580	7050	8240	7860	7640	9270	10000	12200
1944	15300	21700	25200	26200	25000	24400	23600	24100	24500	23990	24910	25450
1945	24950	25460	25990	24950	24810	24840	24630	24260	24080	24840	24840	25000
1946	25310	25000	25000	25620	25780	24840	24540	24840	24690	24840	25160	25000
1947	25000	25000	25310	25310	24840	24690	23930	23180	23330	23180	24080	25310
1948	25160	25160	25000	24840	24840	23930	23030	22150	21050	20020	19650	19520
1949	23780	25000	25000	25160	24080	23780	23780	23180	23330	25000	24690	25000
1950	25000	25000	24840	25310	25160	24230	24380	23330	24840	24840	24690	24540
1951	25000	25000	25000	25000	24540	24540	23930	22150	23780	23480	24080	24540
1952	24690	24840	25160	24840	25000	23630	22580	21180	19900	18790	20660	25000
1953	25000	24840	24840	25160	24690	23330	24690	24080	23180	22010	22290	24230
1954	24840	24690	24690	24840	25160	23780	21730	20150	18670	19280	20020	21050
1955	22290	24840	25000	24690	24540	24080	24540	24230	23180	22290	21590	21450
1956	22730	24690	24690	24840	24230	22880	20920	19520	18310	16990	16870	16750
1957	17470	20150	23180	25290	24800	24670	24690	24080	24540	24690	24840	24840
1958	24840	24840	25000	26560	24540	24690	24540	23630	23930	24540	24690	24380
1959	24080	24840	24840	25000	24690	24380	24540	23780	23630	23780	23630	25000
1960	25000	25000	24840	24380	24840	24690	24380	23630	24540	24500	24740	25120
1961	24920	25020	25430	24660	24710	24970	24500	24200	23860	23580	24830	24810
1962	25060	25420	24880	25230	24490	24860	23920	22800	23160	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	24510	24460	24550
1974	24760	24590	24350	24520	23780	23930	23210	23030	24560	25350	24750	23140
1975	23450	24440	23780	24470	23980	24560	23450	21740	20190	18320	17170	15960
MAX	25310	25460	25990	26560	25780	24970	24690	24840	24840	25350	25160	25450
MIN	569	1720	2900	3450	4580	7050	8240	7860	7640	9270	10000	12200
MEAN	22691	23511	23860	24105	23776	23490	23080	22323	22222	22166	22393	22856
NO.	22	22	22	22	22	22	22	22	22	22	22	22
DISTR												
OF MEAN	8.2%	8.5%	8.6%	8.7%	8.6%	8.5%	8.3%	8.1%	8.0%	8.0%	8.1%	8.3%

CYPRESS CREEK BASIN

07345900 Lake O' the Pines near Jefferson, Texas

LOCATION: Lat 32°45'04", long 94°28'59", Marion County, in the intake structure of Farrell's Bridge Dam on Big Cypress Creek on Farm Road 726, and 9.0 mi (14.5 km) west of Jefferson.

DRAINAGE AREA: 860 mi² (2,202 km²).

PERIOD OF RECORD: August 1957 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Nov. 12, 1957, nonrecording gage at same site and datum.

EXTREMES: Period of record (1957-75): Maximum contents, 694,360 ac-ft (858 hm³) May 5, 1968 (elevation, 245.41 ft or 74.801 m); minimum contents since December 1959, 219,700 ac-ft (271 hm³) Nov. 16, 1963 (elevation, 226.54 ft or 69.049 m).

REMARKS: The lake is formed by a rolled earthfill dam 10,800 ft (3,230 m) long, including a 200-foot (61-m) concrete spillway. The capacity of the lake is 254,900 ac-ft (314.3 hm³). Impoundment of water began on Aug. 21, 1957 and the dam was completed on June 25, 1958. Official operation began on Dec. 11, 1959. The flood-control outlet works consist of two 10.0-foot diameter (3.0-m) conduits that are controlled by two 8.0-by-12.5-foot (2.4 by 3.8-m) electrically driven broom-type gates. The low-flow outlet works consist of one controlled 14-inch (356-millimeter) pipe. The flow over the spillway is discharged into a 2,000 ft (610 m) channel and then into Cypress Creek. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1957	-	-	-	-	-	-	-	150	5610	18810	82580	23240
1958	54060	16080	25430	324800	404700	279000	147600	20380	12440	7110	15140	8830
1959	8150	33370	24700	47050	20720	8700	11380	5310	4940	5240	5960	29010
1960	58890	94260	179000	191400	202700	210300	233600	230500	239700	254800	255300	344400
1961	259600	273400	276700	255500	254900	274800	255100	250600	252000	253300	259800	262800
1962	280800	274400	257900	266200	254400	257200	253100	244900	254200	255700	259000	256600
1963	256100	256200	254900	271300	256400	251400	244500	237200	230000	223200	223000	226300
1964	229100	237200	256800	262200	253100	249200	237300	241500	246200	242730	244520	252700
1965	253960	271610	258440	254330	266680	283680	272000	263710	256760	248200	246160	246710
1966	253030	257880	254330	554390	598690	417390	281520	279170	258260	252840	256570	259750
1967	254890	255270	255830	260500	272000	282100	276840	268130	254150	249870	255080	260130
1968	261920	261540	260030	262290	294130	293520	286240	280510	265900	256070	264000	263620
1969	261350	287860	295140	262670	289270	281690	269200	259080	255890	255700	257200	273090
1970	257390	262860	262290	292300	287450	285040	282480	275040	255890	258140	257390	260590
1971	258330	258900	258520	258330	257010	248390	253070	261920	255890	254950	258900	258710
1972	261920	257580	260590	260970	253630	258140	251570	241980	247640	251940	259460	258900
1973	265330	260030	291900	403800	286440	286240	282090	273280	259840	263240	295340	270950
1974	269000	260970	258520	344750	277380	285640	281500	285040	302870	270400	317100	267400
1975	258600	316600	288700	263000	293100	287700	279600	275300	256600	252470	256760	257130
MAX	280800	316600	295140	554390	598690	417390	286240	285040	302870	270400	317100	344400
MIN	8150	16080	24700	47050	20720	8700	11380	150	4940	5240	5960	8830
MEAN	222357	229778	234429	279766	280150	263341	244372	220721	216567	214458	224698	225308
NO.	18	18	18	18	18	18	18	19	19	19	19	19
DISTR OF MEAN	7.8%	8.0%	8.2%	9.8%	9.8%	9.2%	8.6%	7.7%	7.6%	7.5%	7.9%	7.9%

CYPRESS CREEK BASIN

07346000 Cypress Creek near Jefferson, Texas

LOCATION: Lat 32°45', long 94°29', Marion County, at the bridge on Farm Road 726, 1,500 ft (457.2 m) downstream from Ferrells Bridge Dam, 8 mi (12.9 km) west of Jefferson, and 14 mi (22.5 km) upstream from Black Cypress Creek.

DRAINAGE AREA: 850 mi² (2,201.6 km²).

PERIOD OF RECORD: August 1924 to September 1959.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to November 2, 1933, staff gage. For the period November 2, 1933 to December 8, 1955, water-stage recorder at site 1,500 ft (457.2 m) upstream at datum 183.7 ft (56.0 m) above mean sea level.

AVERAGE DISCHARGE: 36 years, 501,848 ac-ft/yr (618.8 hm³/yr).

EXTREMES: Period of record (1924-59): Maximum discharge, 67,100 ft³/s (1,617.1 m³/s) April 1, 1945 (gage height, 28.78 ft or 8.8 m, from floodmark in gage well at site and datum then in use); no flow at times.

Maximum stage known since at least 1853, that of April 1, 1945.

REMARKS: Records good. The flow is regulated by Lake O' the Pines (station D7346900) located 1,500 ft (457.2 m) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL	
1924	-	-	-	-	-	-	-	126	523	434	1270	1840	-	
1925	12100	6970	7790	34500	43200	980	307	299	33.0	2810	20100	15900	144989	
1926	40200	23400	78400	70300	29700	11000	81100	7160	1880	16400	6380	71000	436920	
1927	80300	72000	128000	162000	25400	20300	8890	3230	5510	19300	11100	26300	562330	
1928	29000	23100	35800	46400	106000	78000	37600	13400	756	11900	50700	185000	617656	
1929	116000	69400	94700	50500	79900	30200	6700	489	1260	422	3640	6460	459671	
1930	27900	62800	53200	23900	421000	14800	1670	126	147	3340	5530	28600	643013	
1931	14500	20300	43700	30500	26900	2840	5600	4520	2580	344	2240	69800	243824	
1932	255000	150000	78100	20700	19900	2840	5100	211	318	230	1360	7750	541509	
1933	122000	38700	64000	60700	88500	4060	19500	10500	3530	2080	2300	22160	438030	
1934	47830	29210	114900	89240	50550	4300	587	39.0	74.0	38.0	1000	7570	345338	
1935	24920	42720	33630	13390	202000	59090	4300	1030	613	2470	21740	46980	452883	
1936	12740	11890	15160	4130	39310	2050	5780	298	72.0	2210	2930	11810	108380	
1937	122500	47690	97150	60220	9360	5760	771	1500	1630	957	9630	104700	461868	
1938	305600	95130	40350	132100	11340	4640	3180	912	350	49.0	970	3210	597831	
1939	16780	73110	85440	48370	14640	3950	523	67.0	1.60	0	257	3480	246619	
1940	3790	10960	8440	45400	26760	30270	27960	1240	1040	266	18940	70260	245326	
1941	73060	34900	95120	50590	85940	70030	27760	4900	3170	3510	12340	44990	506310	
1942	44260	27050	49040	187600	126600	19070	3910	12800	14320	2700	4930	12400	504680	
1943	36020	14060	19390	15010	9390	38210	924	115	63.0	2350	459	3480	139471	
1944	26230	77880	129700	99940	324900	49190	1390	428	3660	489	7280	65120	786207	
1945	139800	79650	278200	415100	44710	126000	25440	3590	1510	22600	22150	27590	1186340	
1946	153700	148000	85040	45440	255500	197800	9040	3050	3320	3710	118000	90760	1113360	
1947	73540	35040	69030	85860	51990	9980	2120	716	3230	1410	22440	142200	497556	
1948	85610	140300	163500	51250	152600	18650	4520	763	713	1790	4580	6770	631046	
1949	37820	90270	71630	48570	33350	9510	9630	2950	5780	145800	47330	30490	533130	
1950	187600	272400	76550	29850	251500	36400	8980	9000	154500	13940	8740	9670	1058930	
1951	33280	116300	58780	40760	36080	14350	7510	820	3840	2420	6000	10400	330540	
1952	24480	25600	48360	181700	38900	46190	2160	864	328	343	3840	40810	413575	
1953	36570	37370	50790	37790	260000	4680	13450	3380	7540	1270	5880	27460	486180	
1954	52850	29380	13760	15480	52000	31980	670	382	373	2230	7480	10580	217165	
1955	13330	35900	57540	73820	8450	2650	1480	4090	1470	6300	1510	4150	210690	
1956	4650	46700	16050	8020	25710	692	412	338	181	244	504	330	103831	
1957	1100	10450	23090	185500	152300	134900	11420	1270	318	31080	160100	119700	831228	
1958	85110	75100	62300	77690	183200	190900	188000	144400	28670	18930	12650	29370	1096320	
1959	16780	45050	90230	89270	71990	38890	12210	14070	3330	-	-	-	-	
MAX	305600	272400	278200	415100	421000	197800	188000	144400	154300	145800	160100	185000	1186340	
MIN	1100	6970	7790	4130	8450	692	307	39.0	1.60	0	257	330	103831	
MEAN	67341	60537	69625	75188	95988	37576	15446	7030	7123	9268	17323	39403	501848	
NO.	35	35	35	35	35	35	35	36	36	35	35	35	34	
DISTR														
OF MEAN	13.4%	12.1%	13.9%	15.0%	19.1%	7.5%	3.1%	1.4%	1.4%	1.8%	3.5%	7.9%	100%	

CYPRESS CREEK BASIN
07346045 Black Cypress Bayou at Jefferson, Texas

LOCATION: Lat 32°46'40", long 94°21'26", Marion County, at the bridge on U.S. Highway 69, 1.1 mi (1.8 km) north of Jefferson, and 2.0 mi (3.2 km) upstream from the Texas and Pacific Railway bridge.

DRAINAGE AREA: 385 mi² (996 km²).

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 171.47 ft (52.264 m) above mean sea level.

AVERAGE DISCHARGE: 8 years, 270,530 ac-ft/yr (333.6 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 7,120 ft³/s (202 m³/s) Apr. 25, 1974 (gage height, 17.69 ft or 5.392 m); no flow at times most years.

Maximum stage since 1938, 22.42 ft (6.834 m) Apr. 29, 1968, from records of the Corps of Engineers.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	3120	7620	29450	-
1969	15590	46760	66880	75150	35600	6190	177	3.70	0	5.70	8180	15520	270056
1970	36820	24870	53940	28190	22030	14220	2230	468	254	898	4520	4700	193140
1971	6090	9060	12880	6480	6450	380	129	4690	436	368	1870	16580	65413
1972	32460	16340	10710	7860	6310	695	489	99.0	506	2190	18940	31890	128489
1973	28120	33040	82870	119400	24970	37700	5040	995	9880	25530	43300	72550	483395
1974	49320	33310	21530	62080	16190	78580	2000	1740	34600	15540	79970	50470	445330
1975	33950	89510	57690	26730	73980	23380	6100	1880	728	469	2950	5570	322977
MAX	49320	89510	82870	119400	73980	78580	6100	4690	34600	25530	79970	72550	483395
MIN	6090	9060	10710	6480	6310	380	129	3.70	0	5.70	1870	4700	65413
MEAN	28907	36127	43786	46556	26504	23021	2309	1411	6629	6015	20924	28341	270530
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	10.7%	13.4%	16.2%	17.2%	9.8%	8.5%	.9%	.5%	2.5%	2.2%	7.7%	10.5%	100%

CYPRESS CREEK BASIN

07346050 Little Cypress Creek near Ore City, Texas

LOCATION: Lat 32°40'21", long 94°45'03", Gregg-Upshur County line, at the bridge on U.S. Highway 269, 4 mi (6 km) downstream from Clear Creek, 9 mi (14 km) south of Ore City, and 12 mi (19 km) north of Longview.

DRAINAGE AREA: 383 mi² (992 km²).

PERIOD OF RECORD: January 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 232.67 ft (70.918 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 201,075 ac-ft/yr (247.3 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 23,500 ft³/s (666 m³/s) Apr. 24, 1966 (gage height, 20.20 ft or 6.157 m); no flow at times.

Maximum stage since at least 1902 occurred in March 1945; maximum stage since 1945, that of Apr. 24, 1966.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	7700	5290	12030	14930	23040	1160	126	27.0	0	0	200	1480	65983
1964	1570	3210	7670	7010	2960	338	3.40	588	873	319	208	1030	25779
1965	5060	25790	15670	7670	23680	12850	551	13.0	206	18.0	66.0	573	92147
1966	1700	3340	2510	178900	84660	1110	98.0	107	547	556	1530	2590	277648
1967	4100	3170	3680	11990	17670	40510	670	31.0	194	46.0	782	7510	90353
1968	28870	14160	33640	28870	112800	10310	9140	1300	3820	2070	6410	26980	278370
1969	12290	56810	75950	57430	35850	3840	272	40.0	50.0	33.0	5390	15500	263455
1970	28850	20070	54400	35420	15340	2800	320	58.0	334	1510	3450	2590	165142
1971	2660	5180	6300	3230	1700	124	792	2680	13.0	294	2640	20330	45943
1972	44290	13100	8620	4020	2440	3480	446	0	588	2300	12130	23690	115104
1973	25210	31070	83590	157400	17290	51970	2570	932	21080	25010	54040	60450	530612
1974	34640	23830	23790	34240	12940	53880	1190	1230	36520	15140	89720	53470	380590
1975	37150	73340	46570	36310	52410	21660	5860	1370	598	395	2690	4500	282853
MAX	44290	73340	83590	178900	112800	53880	9140	2680	36520	25010	89720	60450	530612
MIN	1570	3170	2510	3230	1700	124	3.40	0	0	0	66.0	573	25779
MEAN	18007	21412	28802	44417	30983	15695	1695	644	4986	3669	13789	16976	201075
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13
DISTR OF MEAN	9.0%	10.6%	14.3%	22.1%	15.4%	7.8%	.8%	.3%	2.5%	1.8%	6.9%	8.4%	100%

CYPRESS CREEK BASIN

07346070 Little Cypress Creek near Jefferson, Texas

LOCATION: Lat 32°42'48", long 94°20'44", Harrison-Marion County line, at the bridge on U.S. Highway 59, 0.3 mi (0.5 km) downstream from the Texas and Pacific Railway Co. bridge, 3.3 mi (5.3 km) downstream from Grays Creek, 3.5 mi (5.8 km) south of Jefferson, and 6.8 mi (10.9 km) upstream from the mouth.

DRAINAGE AREA: 675 mi² (1,748 km²).

PERIOD OF RECORD: June 1946 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 174.60 ft (53.218 m) above mean sea level, datum of 1929. Prior to Sept. 19, 1947, nonrecording gage at the upstream side of the bridge at the same datum.

AVERAGE DISCHARGE: 30 years, 398,170 ac-ft/yr (490.9 hm³/yr).

EXTREMES: Period of record (1946-75): Maximum discharge, 35,500 ft³/s (1,010 m³/s) Apr. 26, 1986 (gage height, 22.28 ft or 6.791 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1946	-	-	-	-	-	150200	9760	1940	3450	2530	88310	79630	-
1947	70660	38180	79440	75060	52390	12470	2060	530	1070	730	5090	64000	401680
1948	51160	108800	120600	36230	95660	8990	2850	195	6.00	17.0	3280	5540	433328
1949	27030	50680	51960	53330	45170	5950	19000	10640	7390	57030	53810	23260	405250
1950	148600	158400	46680	29720	156000	34250	9770	10910	54770	10370	8980	9630	678080
1951	23740	67550	49240	32680	39090	7710	1650	218	7890	931	4310	12310	247319
1952	18610	27000	38400	80880	40820	28890	786	292	0	0	883	14210	250771
1953	30840	34340	70970	32910	219200	6900	11560	6520	4120	96.0	4770	26030	448256
1954	39220	31720	16890	19990	46990	19850	255	.40	0	24.0	6250	8100	189289
1955	14660	41340	83650	73110	15530	4770	2960	9270	5010	3210	949	4380	258839
1956	7240	44440	17160	8710	37080	552	30.0	0	0	0	1.00	33.0	115246
1957	512	9440	21730	186900	176100	140100	8350	1300	1270	37760	161200	55930	800592
1958	100800	46190	48990	122400	259000	29590	35360	4030	10720	12320	8180	15020	642600
1959	14120	49500	58080	100800	67570	41600	11300	5960	1680	3710	5130	37200	396650
1960	105600	52850	89800	17840	12150	7160	3530	321	1660	7090	14340	208500	520841
1961	90510	82090	89100	89400	13630	19830	41090	3220	6250	7050	19230	94700	565100
1962	70710	67700	91000	45140	46540	7990	3930	657	2610	5590	6990	13220	362077
1963	15400	11500	20570	19060	60010	2070	576	60.0	2.20	0	61.0	2100	131409
1964	2480	5260	15600	11090	9880	687	15.0	827	1430	1750	1310	10220	59949
1965	20630	54850	40200	24900	38600	36260	2510	16.0	145	113	18.0	1080	219322
1966	2880	8380	6150	272800	194400	4040	440	704	2020	1130	2140	4590	499674
1967	8300	6710	6640	15450	33920	69090	3000	85.0	93.0	27.0	467	6240	150222
1968	44750	27120	50390	54380	163000	19220	12820	2420	7280	4550	12100	46930	444960
1969	23660	65030	145500	123200	61180	8160	445	24.0	1.40	2.90	9670	18100	454973
1970	46170	30030	78100	37660	43280	5150	3500	359	196	1560	6710	5870	258585
1971	6270	9220	12370	7020	3790	278	34.0	3230	466	242	2060	20430	65410
1972	55870	24640	16840	6960	5920	3840	2020	61.0	179	4590	25770	51430	198120
1973	38790	58430	115000	244600	53610	95260	6220	1860	33870	53070	70900	135400	907010
1974	93930	59630	46200	46070	32870	122100	3080	1590	52780	21530	111600	93440	684820
1975	59510	132300	70890	55330	106300	35060	10570	2700	973	399	3190	5650	482872
MAX	148600	158400	145500	272800	259000	150200	41090	10910	54770	57030	161200	208500	907010
MIN	512	5260	6150	6960	3790	278	15.0	0	0	0	1.00	33.0	59949
MEAN	42505	48390	55405	66332	73437	30934	6982	2331	6911	7914	21257	35772	398170
NO.	29	29	29	29	29	30	30	30	30	30	30	30	29
DISTR OF MEAN	10.7%	12.2%	13.9%	16.7%	18.4%	7.8%	1.8%	.6%	1.7%	2.0%	5.3%	9.0%	100%

CYPRESS CREEK BASIN

07346140 Frazier Creek near Linden, Texas

LOCATION: Lat 33°03'16", long 94°17'22", Cass County, at the bridge on U.S. Highway 59, 1.6 mi (2.6 km) upstream from Colley Creek, 3.7 mi (6.0 km) upstream from Johns Creek, and 5.5 mi (8.8 km) northeast of Linden.

DRAINAGE AREA: 48.0 mi² (124.3 km²).

PERIOD OF RECORD: December 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 228.7 ft (69.71 m) above mean sea level.

AVERAGE DISCHARGE: 12 years, 31,985 ac-ft/yr (39.4 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 5,010 ft³/s (142 m³/s) Apr. 22, 1974 (gage height, 12.51 ft or 3.813 m); no flow at times in 1964-73.

Maximum stage since at least 1845, 15.6 ft (4.76 m) April 26, 27, 1958, from information by the State Highway Department.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	-	-	1480	-
1965	3570	8600	3450	1920	2630	3470	209	.80	3.80	.50	68.0	213	22135
1966	452	1020	739	11640	4230	149	152	52.0	139	158	561	2220	21512
1967	1830	1330	1580	3620	4330	1700	205	3.10	13.0	24.0	138	2440	17213
1968	4440	1840	5900	3000	8330	1570	266	76.0	297	115	1260	2240	29334
1969	2020	6590	8530	9020	3690	318	2.70	0	.06	15.0	1790	3850	35816
1970	3470	4220	8110	4960	1930	2480	88.0	64.0	19.0	104	407	594	26446
1971	878	1160	906	851	617	5.40	85.0	343	5.90	27.0	199	1620	6697
1972	3890	1450	1300	1010	915	0	0	0	84.0	273	1700	3080	13702
1973	3920	3610	11850	13290	2020	4280	902	118	1430	4820	8810	10830	65880
1974	7990	4000	2590	12070	2420	7270	171	254	4670	2250	11440	6960	62089
1975	5010	14910	8840	3820	13730	2410	876	759	181	121	686	1270	52613
MAX	7990	14910	11850	13290	13730	7270	902	759	4670	4820	11440	10830	65880
MIN	452	1020	739	851	617	0	0	0	.06	.50	68.0	213	6697
MEAN	3406	4248	4890	5927	4076	2150	269	152	622	719	2460	3066	31985
NO.	11	11	11	11	11	11	11	11	11	11	11	12	11
DISTR													
OF MEAN	10.6%	13.3%	15.3%	18.5%	12.7%	6.7%	.8%	.5%	1.9%	2.2%	7.7%	9.6%	100%

SABINE RIVER BASIN

08017200 Cowlesch Fork Sabine River at Greenville, Texas

LOCATION: Lat 33°07'58", long 96°04'36", Hunt County, at the bridge on Interstate Highway 30 (U.S. Highway 67), 0.3 mi (0.5 km) downstream from Horse Creek, 0.9 mi (1.4 km) downstream from the Louisiana & Arkansas Railroad Co. bridge, and 1.8 mi (2.9 km) east of Greenville.

DRAINAGE AREA: 77.7 mi² (201.2 km²).

PERIOD OF RECORD: March 1959 to December 1975. Prior to October 1963, published as "Sabine River at Greenville".

GAGE: Water-stage recorder. Datum of gage is 485.07 ft (147.849 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 45,421 ac-ft/yr (58.0 km³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 10,800 ft³/s (306 m³/s) May 7, 1969 [gage height, 17.95 ft or 5.471 m]; no flow at times in 1964, 1969-70, and 1972-73.

Maximum stage since 1895, 22 ft (6.7 m) in May 1835, from information by a local resident and the city engineer of Greenville.

REMARKS: Records good. The extreme low flow is largely sustained by return flow from the water treatment plant upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	2080	195	474	126	1630	36.0	40.0	4840	2820	12540	-
1960	6560	4040	1010	4710	2450	282	3850	612	503	3600	87.0	20190	47894
1961	6330	3040	10820	424	636	1100	155	64.0	820	194	2890	4910	31383
1962	1900	1520	1880	4260	2070	5680	274	478	13010	1150	5780	211	38213
1963	670	148	958	2360	10730	105	4580	61.0	47.0	42.0	58.0	90.0	19849
1964	70.0	79.0	2320	3860	8730	1650	21.0	38.0	9100	64.0	7530	249	33711
1965	4340	14780	2650	456	19330	258	73.0	26.0	1050	38.0	197	101	43299
1966	144	2640	409	25660	7050	236	201	260	296	496	19.0	52.0	37463
1967	38.0	58.0	166	5070	10190	2430	50.0	15.0	5790	6580	1160	6250	37797
1968	6520	2200	14940	7750	21170	4220	5400	525	1770	735	2240	3640	71110
1969	11840	8670	10540	2250	26140	171	29.0	19.0	29.0	1810	88.0	6600	68186
1970	982	15150	15500	10320	621	267	28.0	203	2360	5470	138	74.0	51113
1971	94.0	830	403	51.0	70.0	21.0	348	3370	810	21750	186	35260	62993
1972	353	137	65.0	54.0	49.0	29.0	18.0	33.0	24.0	610	1570	205	3147
1973	3060	4620	6250	13840	225	6760	124	53.0	10650	21520	7350	4330	78782
1974	8480	386	1650	13580	1780	10310	25.0	519	15340	3440	12240	4440	72190
1975	2980	13260	2560	4140	11580	7270	380	28.0	24.0	43.0	58.0	53.0	42376
MAX	11840	15150	15500	25660	26140	10310	5400	3370	15340	21750	12240	35260	78782
MIN	38.0	58.0	65.0	51.0	49.0	21.0	18.0	15.0	24.0	38.0	19.0	52.0	3147
MEAN	3398	4472	4365	5822	7253	2407	1011	373	3615	4258	2612	5835	45421
NO.	16	16	17	17	17	17	17	17	17	17	17	17	16
DISTR													
OF MEAN	7.5%	9.8%	9.6%	12.8%	16.0%	5.3%	2.2%	.8%	8.0%	9.4%	5.8%	12.8%	100%

SABINE RIVER BASIN

08017300 South Fork Sabine River near Quinlan, Texas

LOCATION: Lat 32°53'52", long 96°15'11", Hunt County, at the bridge on Farm Road 1666, 2.4 mi (3.9 km) upstream from Dry Creek, 6.2 mi (10.0 km) upstream from Bearpen Creek, and 7 mi (11 km) southwest of Quinlan.

DRAINAGE AREA: 78.7 mi² (203.8 km²).

PERIOD OF RECORD: March 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 461.40 ft (140.635 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 47,464 ac-ft/yr (58.5 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 14,500 ft³/s (411 m³/s) May 7, 1969 (gage height, 16.93 ft or 5.160 m); no flow at times each year.

Maximum stage since at least 1890, 21 ft (6.4 m) July 29, 1902, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	211	43.0	116	204	3880	3.80	8.50	15890	2400	8980	-
1960	7690	4170	849	37.0	1310	749	1190	348	313	396	2.80	16800	33935
1961	7010	4790	7310	152	436	3110	89.0	6.20	104	48.0	2880	5740	31675
1962	762	2090	1510	13250	1300	7760	3160	2.00	5230	4820	7300	451	47635
1963	745	2.60	22.0	13060	3140	41.0	1210	1.40	0	0	0	0	18222
1964	49.0	83.0	3030	956	1700	1220	0	188	2850	11.0	3450	92.0	13629
1965	2420	17260	79.0	16.0	25470	268	0	0	113	0	137	5.50	45771
1966	207	4830	910	41250	5650	161	41.0	614	876	1650	4.00	50.0	56243
1967	19.0	7.00	158	4540	13210	1390	195	0	1740	15530	2980	5320	45089
1968	7950	2680	14250	2180	14740	3840	925	.40	32.0	0	506	1380	48483
1969	2030	5610	10240	2940	21830	20.0	0	0	0	113	10.0	3090	45883
1970	238	12630	11570	6590	4000	2190	0	473	7300	10240	17.0	24.0	55272
1971	23.0	857	206	3.70	90.0	2.80	52.0	518	384	27670	82.0	28210	58090
1972	1690	16.0	7.00	634	20.0	39.0	0	0	0	234	2030	1410	6080
1973	6420	7140	3730	15630	3670	23480	2340	0	13260	28730	7310	6230	117940
1974	17040	552	1910	4590	3080	11600	0	5950	21010	8560	13760	3900	96952
1975	2520	18020	2370	4670	8980	7160	1900	2.10	0	0	0	0	45622
MAX	17040	18020	14250	41250	25470	23480	3880	5950	21010	28730	13760	28210	117940
MIN	19.0	2.60	7.00	3.70	20.0	2.80	0	0	0	0	0	0	6080
MEAN	3551	5046	3433	6797	6397	3720	881	476	3131	6700	2522	4818	47464
NO.	16	16	17	17	17	17	17	17	17	17	17	17	16
DISTR OF MEAN	7.5%	10.6%	7.2%	14.3%	13.5%	7.8%	1.9%	1.0%	6.6%	14.1%	5.3%	10.1%	100%

SABINE RIVER BASIN

08017400 Lake Tawakoni near Wills Point, Texas

LOCATION: Lat 32°48'40", long 96°54'56", Rains-Van Zandt County line, in the stairwell at the left end of the spillway of Iron Bridge Dam on the Sabine River, 750 ft (229 m) upstream from the bridge on Farm Road 47, 3 mi (5 km) upstream from McBee Creek, and 9.0 mi (14.5 km) northeast of Wills Point.

DRAINAGE AREA: 756 mi² (1,968 km²).

PERIOD OF RECORD: October 1960 to December 1976.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1960-76): Maximum contents, 1,130,000 ac-ft (1,393.3 hm³) May 1, 1966 (elevation, 442.58 ft or 134.900 m); minimum contents since the lake was first filled in May 1965, 802,700 ac-ft (890 hm³) October 21, 1972 (elevation, 433.65 ft or 132.177 m).

REMARKS: The lake is formed by a rolled earthfill dam 29,560 ft (9,010 m) long, including a 480-foot (146-m) uncontrolled concrete gravity spillway with an ogee weir section. The capacity of the lake is 936,200 ac-ft (1,154.3 hm³). The outlet works consist of two 4-by-6-foot (1.2-by-1.8-m) sluice gates and two 20-inch (508-millimeter) steel pipes controlled by service valves. Closure of the earthen dam began on July 1, 1960 and deliberate impoundment of water began on Oct. 7, 1960. The dam is operated by the Sabine River Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1960	-	-	-	-	-	-	-	-	-	43200	47620	200200
1961	268700	308900	400700	401900	405000	437700	437200	425500	423100	415500	439800	486700
1962	499100	528900	536300	612300	614600	637400	645600	630100	717400	724000	784600	784200
1963	786200	786500	783600	874500	910400	901500	902200	881400	864400	848200	842400	834000
1964	835000	830200	843400	869300	879300	871700	846100	830200	853400	837700	855100	849900
1965	864800	967600	932600	926100	1007000	932600	905800	888800	885600	870000	867200	862400
1966	863100	908600	906500	1123000	920300	907600	893000	885300	889900	888100	874100	867900
1967	862000	865600	854800	893400	953600	929000	922900	896900	916400	994600	932600	939100
1968	972000	944200	943500	954000	935500	939100	934100	912500	905100	888400	899100	909300
1969	932600	964700	971700	949600	961000	922900	893000	868600	853400	863100	852700	895200
1970	893000	987600	961700	986800	951400	926100	898400	885300	929000	953600	931200	923200
1971	901500	899800	882800	875200	869600	849600	840700	844100	842400	965000	935900	957600
1972	940200	931500	916400	909000	892300	877600	851600	831900	816400	827200	844800	854400
1973	896200	934400	959900	995800	945600	948200	932600	904700	972400	1013000	973900	955100
1974	965800	940600	937300	976800	946000	946000	921100	919600	965400	985700	969800	952200
1975	953600	952500	956200	951400	970200	948500	931200	912500	887400	869300	858900	854100
MAX	972000	987600	971700	1123000	1007000	948500	934100	919600	972400	1013000	973900	957600
MIN	268700	308900	400700	401900	405000	437700	437200	425500	423100	43200	47620	200200
MEAN	828920	849500	852493	886607	877453	865033	850367	834493	848113	811663	806858	820344
NO.	15	15	15	15	15	15	15	15	15	16	16	16
DISTR OF MEAN	8.2%	8.4%	8.4%	8.8%	8.7%	8.5%	8.4%	8.2%	8.4%	8.0%	8.0%	8.1%

SABINE RIVER BASIN

08017410 Sabine River near Wills Point, Texas

LOCATION: Lat 32°48'34", long 95°54'46", Rains-Van Zandt County line, at the bridge on Farm Road 47, 750 ft (229 m) downstream from Iron Bridge Dam which forms Lake Tawakoni, 3.0 mi (4.8 km) upstream from McBee Creek, and 9.0 mi (14.5 km) northeast of Wills Point.

DRAINAGE AREA: 766 mi² (1,958 km²).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 370.00 ft (112.776 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 374,617 ac-ft/yr (461.9 km³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 13,800 ft³/s (385 m³/s) Dec. 11, 1971 (gage height, 18.6 ft or 5.64 m); no flow in October 1971-72, April 1974, and September 1975.

Maximum discharge since construction of Iron Bridge Dam in 1960, about 21,000 ft³/s (596 m³/s) May 1, 1966, from theoretical rating curve of the flow over the dam 750 ft (229 m) upstream.

REMARKS: Records good. The flow is regulated by Lake Tawakoni (station 08017400).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	52690	11440	47.0	-
1971	14270	9690	4250	78.0	631	56.0	1290	55.0	82.0	55790	16390	179100	281682
1972	31700	4330	3770	1800	995	48.0	35.0	52.0	45.0	38.0	207	160	43180
1973	952	4620	69170	103600	62880	110600	4750	387	14040	106100	118700	50410	646209
1974	95960	21200	12080	39940	50050	76620	3330	174	51680	27330	151100	66750	596214
1975	24440	137800	34030	53850	56860	65890	7310	196	171	135	305	101	381088
MAX	95960	137800	69170	103600	62880	110600	7310	387	51680	106100	151100	179100	646209
MIN	952	4330	3770	78.0	631	48.0	35.0	52.0	45.0	38.0	207	47.0	43180
MEAN	33464	35528	24660	39854	34283	50643	3343	173	13204	40347	49690	49428	374617
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR													
OF MEAN	8.9%	9.5%	6.6%	10.6%	9.2%	13.5%	.9%	.0%	3.5%	10.8%	13.3%	13.2%	100%

SABINE RIVER BASIN

08017500 Sabine River near Emory, Texas

LOCATION: Lat 32°46'23", long 95°47'56". Rains-Van Zandt County line, at the bridge on State Highway 19, 3.7 mi (6.0 km) upstream from Sandy Creek, 7.2 mi (11.6 km) south of Emory, 12.3 mi (19.8 km) downstream from McBee Creek, and 13.8 mi (22.2 km) downstream from Lake Tawakoni.

DRAINAGE AREA: 888 mi² (2,300 km²), including Little and Yellow Steer Sloughs.

PERIOD OF RECORD: August 1952 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 350.28 ft (106.77 m) above mean sea level.

AVERAGE DISCHARGE: 22 years, 342,486 ac-ft/yr (422.3 hm³/yr).

EXTREMES: Period of record (1952-73): Maximum discharge, 74,000 ft³/s (2,100 m³/s) Apr. 27, 1957, gage height, 25.06 ft (7.64 m); no flow at times. Maximum discharge since construction of Lake Tawakoni Dam in 1980, 24,900 ft³/s (705 m³/s) May 1, 1966, gage height, 18.38 ft (5.60 m).

Maximum stage since at least 1800, 25.7 ft (7.83 m) in June 1943, from information by a local resident and the State Highway Department.

REMARKS: Records good. The flow is largely regulated by Lake Tawakoni (station 08017400) since October 1960. The records included flow in Little and Yellow Steer Sloughs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	2.40	0	0	20470	48700	-
1953	17360	1270	21170	113100	187700	62.0	5270	443	726	0	5260	27420	379781
1954	74560	9230	206	22950	33710	6170	.20	0	0	44120	20910	375	212231
1955	2160	26310	10170	26090	3730	1300	2.60	1650	1030	42.0	0	0	76485
1956	72.0	10740	78.0	142	40480	138	0	0	0	0	6650	902	59202
1957	5580	16400	80940	455300	358000	97880	1190	396	9210	82530	136300	11350	1255076
1958	40470	1240	65700	202600	230100	19250	15670	130	4390	144	734	516	580944
1959	898	35830	16310	41110	8590	5030	26250	6970	405	111900	22390	106900	382583
1960	108200	43650	20220	1430	24480	21320	10420	1700	2440	3810	1290	30050	269010
1961	13310	8620	11010	1920	189	10400	82.0	75.0	40.0	17.0	1790	3760	51213
1962	1900	6210	1070	10010	1830	466	463	2.80	8060	1370	10480	1780	43642
1963	1850	384	453	17990	1780	595	623	240	205	184	119	129	24552
1964	187	300	855	14040	199	65.0	0	148	1320	55.0	106	123	17398
1965	432	54700	39220	1670	189900	85050	27.0	6.40	4720	123	1460	78.0	377386
1966	3750	8550	1790	149400	338200	147	24.0	162	352	648	473	580	504076
1967	259	255	134	3280	9040	75650	2030	25.0	1850	46440	97040	58050	294053
1968	44650	65110	139100	50700	211800	14070	3660	181	532	299	1030	2970	534102
1969	961	34920	130100	50970	301300	24510	123	21.0	0	2050	647	9050	554652
1970	2760	25230	192500	63830	55570	23750	136	538	5790	71520	18500	5820	465944
1971	15830	13010	6440	1050	4830	13.0	11230	1250	1820	91740	23450	271200	441863
1972	43330	4570	3760	1670	829	76.0	8.00	0	0	1960	3230	3440	62873
1973	9040	10760	89100	149000	89180	164300	6610	678	20900	-	-	-	-
MAX	108200	65110	192500	455300	358000	164300	26250	6970	20900	111900	136300	271200	1255076
MIN	72.0	255	78.0	142	189	13.0	0	0	0	0	0	0	17398
MEAN	18455	18061	39539	65726	99592	26202	3991	664	2900	21855	17730	27771	342486
NO.	21	21	21	21	21	21	21	22	22	21	21	21	20
DISTR OF MEAN	5.4%	5.3%	11.5%	19.2%	29.1%	7.7%	1.2%	.2%	.8%	6.4%	5.2%	8.1%	100%

SABINE RIVER BASIN

08018000 Sabine River near Golden, Texas

LOCATION: Lat 32°43'13", long 95°38'05", Wood-Van Zandt County line, at a bridge 50 ft (15.2 m) below the mouth of Blair Creek, 3 mi (4.8 km) above the mouth of Grand Saline Creek, and 5.5 mi (8.8 km) southwest of Golden.

DRAINAGE AREA: 1,200 mi² (3,108 km²).

PERIOD OF RECORD: July 1924 to September 1925.

GAGE: Staff gage. Datum of gage is 323.94 ft (98.7 m) above mean sea level.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN.	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	5.60	151	6520	169	1570	1220	-
1925	1620	1400	370	10700	82000	4380	565	2.80	30.3	-	-	-	-
MAX	1620	1400	370	10700	82000	4380	565	151	6520	169	1570	1220	-
MIN	1620	1400	370	10700	82000	4380	5.60	2.80	30.3	169	1570	1220	-
MEAN	1620	1400	370	10700	82000	4380	285	76.9	3275	169	1570	1220	107066
NO.	1	1	1	1	1	1	2	2	2	1	1	1	0
DISTR OF MEAN	1.5%	1.3%	.3%	10.0%	76.6%	4.1%	.3%	.1%	3.1%	.2%	1.5%	1.1%	100%

SABINE RIVER BASIN

08018200 Grand Saline Creek near Grand Saline, Texas

LOCATION: Lat 32°40'20", long 95°36'36", Van Zandt County, at the bridge on U.S. Highway 80, 0.3 mi (0.5 km) downstream from the Texas and Pacific Railway Co. bridge, 1.7 mi (2.7 km) upstream from the mouth, and 5.5 mi (8.8 km) east of Grand Saline.

DRAINAGE AREA: 91.4 mi² (237 km²).

PERIOD OF RECORD: February 1968 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 325.5 ft (99.2 m) above mean sea level.

AVERAGE DISCHARGE: 6 years, 46,457 ac-ft/yr (57.3 hm³/yr).

EXTREMES: Period of record (1968-73): Maximum discharge, 7,850 ft³/s (222 m³/s) June 4, 1973, gage height, 13.05 ft (3.98 m); maximum gage height, 16.62 ft (5.07 m) Dec. 10, 1971 (backwater from the Sabine River); no flow at times in 1969-71.

Maximum stage since about 1945, 16.62 ft (5.07 m) Dec. 10, 1971 (backwater from the Sabine River).

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	5300	7010	6680	21060	1260	635	67.7	821	129	1840	3580	-
1969	2220	11500	19570	6860	20760	320	25.0	0	6.70	478	688	3690	66118
1970	2140	8740	11160	3890	1030	1220	98.0	31.0	42.0	2390	355	268	31384
1971	308	637	385	195	108	26.0	1420	180	25.0	2530	1880	23030	30724
1972	6620	1190	553	209	239	2780	48.0	32.0	39.0	377	1610	3180	16877
1973	4980	2530	13970	24870	549	24640	135	121	987	-	-	-	-
MAX	6620	11500	19570	24870	21060	24640	1420	180	987	2530	1880	23030	66118
MIN	308	637	385	195	108	26.0	25.0	0	6.70	129	355	268	16877
MEAN	3254	4983	8775	7117	7291	5041	394	71.9	320	1181	1275	6754	46457
NO.	5	6	6	6	6	6	6	6	6	5	5	5	4
DISTR													
OF MEAN	7.0%	10.7%	18.9%	15.3%	15.7%	10.9%	.8%	.2%	.7%	2.5%	2.7%	14.5%	100%

SABINE RIVER BASIN
08018500 Sabine River near Mineola, Texas

LOCATION: Lat 32°36'49", long 95°29'08", Wood-Smith County line, 75 ft (23 m) downstream from the bridge on U.S. Highway 69, 3.5 mi (5.6 km) south of Mineola, 4.6 mi (7.2 km) upstream from the Missouri-Pacific Railway Co. bridge, and 16.2 mi (26.1 km) upstream from Lake Fork Creek.

DRAINAGE AREA: 1,367 mi² (3,515 km²).

PERIOD OF RECORD: June 1939 to September 1959, October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 304.16 ft (92.708 m) above mean sea level, datum of 1929. May 12, 1939 to Dec. 11, 1955, at site 55 ft (17 m) upstream from the downstream side of the bridge; Dec. 12, 1955 to Dec. 12, 1958, at the downstream side of the bridge; Oct. 1, 1967 to Sept. 12, 1968, nonrecording gage at the downstream side of the bridge. All gages at present datum.

AVERAGE DISCHARGE: 30 years (1939-59, 1967-75), 775,926 ac-ft/yr (956.7 hm³/yr).

EXTREMES: Period of record (1939-59, 1967-75): Maximum discharge, 76,000 ft³/s (2,150 m³/s) Apr. 1, 1945 (gage height, 24.00 ft or 7.315 m); maximum gage height, 24.37 ft (7.428 m) June 8, 1943; no flow at times.

Maximum stage since at least 1880, that of June 8, 1943.

REMARKS: Records good. The flow is partly regulated by Lake Tawakoni (station 08017400) located 53 mi (85 km) upstream since October 1960 and by Lake Holbrook (capacity, 7,990 ac-ft or 8.85 hm³) on a tributary stream since September 1962.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	6620	3150	40	40	2460	179	1260	-
1940	644	8720	10060	86360	64500	80580	51310	7500	18360	2120	104000	196900	631054
1941	54170	56720	109600	48670	194200	267100	30830	19250	7220	8500	19470	53050	868780
1942	7230	34730	25090	621600	217900	90190	615	9720	12880	9310	19810	41010	1090085
1943	31310	6380	69100	33510	64020	483400	1850	8640	182	21360	940	10510	722648
1944	49590	93150	195200	50390	408900	90220	3950	181	2980	1220	17820	93870	1007471
1945	129900	189900	558600	412300	17830	362200	129800	5140	1400	63360	24390	13680	1908500
1946	130000	245000	78450	47230	193400	278600	3990	7620	8740	3710	399500	87890	1484130
1947	69710	8890	37730	101500	33470	30400	2970	3190	23310	881	51210	199500	562761
1948	99720	94290	146300	11630	168700	4810	6140	2370	345	235	1920	3080	539540
1949	72880	171500	85830	31970	56090	35770	19710	9660	2020	98830	14700	3860	602820
1950	123600	402000	38090	44400	229800	55640	20480	42320	25710	1050	1830	1230	985350
1951	8190	75830	10430	3780	17810	133500	11990	223	106	747	1280	1940	265826
1952	3980	6340	18370	202200	115300	41940	787	1740	0	1940	8910	80810	478673
1953	28510	5570	39340	48000	453500	545	18210	892	2640	218	5740	32310	635475
1954	88110	22540	2800	26590	41830	8740	3040	0	0	52900	47780	4710	296030
1955	6140	43400	50660	56340	5130	2120	1610	3470	3690	253	215	825	173853
1956	1620	24940	1800	1050	56770	286	20	0	0	8450	7010	1420	94905
1957	6880	29270	96230	563400	465000	160300	1320	532	14800	119900	210800	24410	1692842
1958	89160	8440	85820	257500	415400	21400	38900	524	9250	5190	5340	4280	941204
1959	3060	65530	31030	122600	18720	6350	18560	18140	834	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	37610	197800	128900	-
1968	113300	117500	179500	107700	426400	59990	7480	813	5070	1320	11350	32330	1062753
1969	8370	112700	256700	97770	417400	34460	299	4540	179	953	8440	19040	956356
1970	27670	43250	246600	65570	73990	37100	799	254	3100	58750	25940	3540	586563
1971	13210	14020	8780	1890	9000	340	7680	14800	2850	70800	50700	356600	550670
1972	99290	16530	7970	2900	1880	5500	395	2040	736	3590	11740	16860	167411
1973	32910	32710	147000	233400	110100	242900	8280	1020	17440	132700	173600	109400	1241460
1974	166400	50210	21180	60000	117200	112300	4560	1210	36660	29800	315100	126000	1040620
1975	40610	240700	82730	130500	116100	114500	11490	1250	583	539	950	1350	741302
MAX	166400	402000	558600	621600	465000	483400	129800	42320	36660	132700	399500	356600	1908500
MIN	644	5570	1800	1050	1880	286	20	0	0	2460	179	825	94905
MEAN	53792	79313	94321	123955	161055	95441	14041	5181	6934	25030	59947	56916	775926
NO.	28	28	28	28	28	29	29	29	29	29	29	29	27
DISTR													
OF MEAN	6.9%	10.2%	12.2%	16.0%	20.8%	12.3%	1.8%	.7%	.9%	3.2%	7.7%	7.3%	100%

SABINE RIVER BASIN

08019000 Lake Fork Creek near Quitman, Texas

LOCATION: Lat. 32°45'46", long 96°27'48", Wood County, at the bridge on State Highway 37, 0.3 mi (0.6 km) downstream from Dry Creek, 2.4 mi (3.9 km) south of Quitman, and 23.4 mi (37.7 km) upstream from the mouth.

DRAINAGE AREA: 585 mi² (1,515 km²).

PERIOD OF RECORD: July 1924 to April 1926, March 1939 to December 1975. Prior to October 1961, published as "Lake Fork Sabine River near Quitman".

GAGE: Nonrecording gage. Datum of gage is 317.42 ft (96.750 m) above mean sea level, datum of 1929. June 27, 1924 to Apr. 30, 1926, nonrecording gage at site 1,000 ft (305 m) downstream at same datum.

AVERAGE DISCHARGE: 40 years (1924-26, 1939-75), 315,988 ac-ft/yr (389.6 hm³/yr).

EXTREMES: Period of record (1924-26, 1939-75): Maximum discharge, 75,600 ft³/s (2,140 m³/s) Mar. 30, 1945 [gage height, 29.85 ft or 9.098 m, from floodmark]; no flow at times most years.

Maximum stage since at least 1890, that of March 30, 1945.

REMARKS: Records good. No diversion above station. During 1975, construction began on Lake Fork Creek Reservoir (capacity, 675,800 ac-ft or 833 hm³) located about 5 mi (8 km) upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	20.8	207	2870	28.2	1170	248	-
1925	1430	1320	799	8880	22900	135	54.0	262	512	3350	23300	507	63449
1926	33100	2080	40600	44700	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	24310	16730	948	109	157	0	5.20	0	.20	29.0	-
1940	18.0	492	3250	31440	50610	23090	21390	4540	2710	238	34310	75650	247738
1941	16590	30070	54080	34020	48530	62240	14100	4510	1230	323	4000	10040	279733
1942	5040	10900	15460	207500	73620	10440	228	1900	2060	752	2170	19900	349970
1943	8800	3590	18370	6930	38890	175900	619	1.40	34.0	2670	38.0	2280	258122
1944	13430	34430	52690	27770	158200	27680	1980	257	3790	72.0	8040	31780	360119
1945	52670	88850	391800	114700	13200	120100	56040	1860	187	51200	13320	7590	911517
1946	101200	120400	58420	17260	156700	90980	1200	2840	610	714	133600	39610	723536
1947	39700	5980	23530	59850	27670	7730	147	1330	998	30.0	16280	88810	272055
1948	37390	63760	71400	13710	98510	1190	4330	215	2.60	0	511	868	291837
1949	56350	56820	33140	38540	21880	3760	5640	329	1000	95260	3090	7170	322979
1950	67850	180800	37140	17140	103600	33320	40410	8010	8520	1230	560	855	499435
1951	6520	60300	8380	2830	7320	10980	1880	5.40	.40	2.00	365	1320	99903
1952	7230	7310	16450	132700	55710	7190	144	1.20	0	0	5940	36170	268845
1953	17840	8060	17700	75640	156400	331	9130	960	11890	63.0	1050	17490	316554
1954	50570	24740	3210	9790	17120	1300	.20	0	0	24260	9970	2020	142980
1955	5280	12670	21320	29440	2020	667	12.0	1660	3070	206	0	45.0	76390
1956	347	15470	1090	962	14280	182	0	0	0	0	1570	159	34060
1957	3970	10530	37880	229100	176500	72130	165	260	6300	38530	104300	19080	698745
1958	57850	7160	47820	208600	145500	17260	5280	33.0	8330	2010	7070	4810	511723
1959	2400	48670	46200	61760	5820	2390	9500	1600	2260	28860	8010	105600	323070
1960	107300	39150	29090	3060	5370	8010	5460	250	4980	3920	8760	108900	324250
1961	57950	54810	60680	26560	4220	31600	7160	666	2480	141	11890	34380	292537
1962	20960	27030	29890	33020	27510	7920	7470	2720	28750	2320	19770	19960	227320
1963	16200	2160	6500	18560	37300	8130	470	50.0	200	0	0	19.0	49589
1964	195	1310	3750	17810	1180	866	1.00	53.0	162	269	605	144	26345
1965	1560	50620	8700	1880	112100	20310	152	0	1280	41.0	229	86.0	196958
1966	2120	34050	2870	156600	143000	1510	872	3000	14550	5590	431	6230	370823
1967	3830	4000	4030	29140	54890	28540	1380	3.60	1460	13290	49970	53380	243934
1968	58540	35780	85600	45110	167800	28990	3800	335	8370	1100	10840	40040	486305
1969	8260	87790	106400	45620	143600	1710	26.0	22.0	0	192	2560	6940	403120
1970	19110	37040	108700	45520	10800	20720	953	867	5730	23040	4260	1640	278380
1971	1990	14390	7890	1490	11090	188	3580	3220	2290	34930	4520	207800	293378
1972	52570	10060	5310	1780	822	12770	256	8.00	40.0	4280	23210	25230	136336
1973	35460	42510	115700	143400	11800	60750	2290	101	9120	31050	90260	58300	600741

SABINE RIVER BASIN

08019000 Lake Fork Creek near Quitman, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	99500	14020	15890	67200	13060	48690	297	925	44910	7700	191300	79770	583342
1975	26450	130000	56850	56490	74140	47620	4390	1660	906	768	524	962	400760
MAX	107300	180800	391800	229100	176500	175900	56040	8010	44910	95260	191300	207800	911517
MIN	18.0	492	799	962	822	109	0	0	0	0	0	19.0	26345
MEAN	28886	36293	42895	53416	58279	26247	5410	1145	4657	9703	20456	28611	315998
NO.	38	38	39	39	38	38	39	39	39	39	39	39	37
DISTR OF MEAN	9.1%	11.5%	13.6%	16.9%	18.4%	8.3%	1.7%	.4%	1.5%	3.1%	6.5%	9.1%	100%

SABINE RIVER BASIN

08019300 Lake Winnboro near Winnboro, Texas

LOCATION: Lat 32°53'11", long 95°20'37", Wood County, near the left end of the dam on Big Sandy Creek, 0.8 mi (1.3 km) upstream from the bridge on State Highway 37, 2.5 mi (4.0 km) upstream from Indian Creek, and 5.8 mi (9.3 km) southwest of Winnboro.

DRAINAGE AREA: 27.1 mi² (70.2 km²).

PERIOD OF RECORD: June 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 19, 1963, nonrecording gage at same site and datum.

EXTREMES: Period of record (1962-75): Maximum contents, 11,640 ac-ft (14.4 hm³) Feb. 5, 1976 (elevation, 422.92 ft or 128.906 m); minimum contents since the first appreciable storage, 2,430 ac-ft (3.00 hm³) Jan. 19, 20, 1965 (elevation, 409.79 ft or 124.904 m).

REMARKS: The lake is formed by a rolled earthfill dam 2,500 ft (762 m) long, with a capacity of 8,110 ac-ft (10.0 hm³). Storage began on June 11, 1962 and the dam was completed in August 1962. The dam was built by Wood County for flood control and recreational purposes. The spillway is an uncontrolled 20-foot (6-m) square drop inlet at crest elevation of 419.0 ft (127.71 m). The crest was raised in April 1966 from elevation 417 to 419 ft (127.1 to 127.7 m). The other spillway is a 300-foot wide (91 m) cut channel through natural ground near the right end of the dam.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	-	-	-	-	-	248	288	238	511	568	911	1220
1963	1690	1880	2240	3460	3700	3500	3280	2940	2740	2550	2560	2550
1964	2580	-	2960	3540	3390	3180	2800	2790	2690	2540	2490	2460
1965	2460	3810	4200	4160	7470	7030	6400	5960	5810	5590	5500	5440
1966	5460	5910	5790	9660	8140	7710	7280	7560	7780	7660	7520	8010
1967	8100	8130	8120	8270	8640	7740	7430	7040	7060	7400	7430	8400
1968	8440	8270	8130	8580	8100	8250	7830	7400	7750	7610	8340	8230
1969	8600	8340	8940	8290	8160	7780	7180	6770	6500	6490	6390	6900
1970	7120	8290	8230	8190	8300	8080	7530	7090	6940	7130	7030	6990
1971	6910	7210	7260	7150	7160	6690	6620	6370	6200	6230	6180	8230
1972	8350	8140	8040	7860	7540	8070	7610	7130	6900	7260	7680	8180
1973	8340	8250	8380	8360	8050	7960	7710	7180	7280	9120	8400	8220
1974	8390	8190	8130	8460	8140	7940	7520	6830	8250	8830	8710	8400
1975	8590	8320	8380	8670	8890	8140	7660	7570	7120	6760	6680	6710
MAX	8600	8340	8940	9660	8690	8250	7830	8830	8250	9120	8710	8400
MIN	1690	1880	2240	3460	3390	248	288	238	511	568	911	1220
MEAN	6541	7062	6829	7296	7360	6594	6224	6062	5967	6124	6130	6424
NO. DISTR	13	12	13	13	13	14	14	14	14	14	14	14
OF MEAN	8.3%	9.0%	8.7%	9.3%	9.4%	8.4%	7.9%	7.7%	7.6%	7.8%	7.8%	8.2%

SABINE RIVER BASIN

08019500 Big Sandy Creek near Big Sandy, Texas

LOCATION: Lat 32°36'12", Long 95°05'32", Upshur County, at the bridge on State Highway 165, 0.5 mi (0.8 km) upstream from the St. Louis-Southwestern Railway Lines bridge, 1.6 mi (2.6 km) northeast of Big Sandy, and 6.5 mi (10.5 km) upstream from the mouth.

DRAINAGE AREA: 231 mi² (608 km²).

PERIOD OF RECORD: March 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 278.38 ft (84.850 m) above mean sea level, datum of 1929. Prior to Oct. 5, 1940, nonrecording gage, and Oct. 5, 1940 to Nov. 26, 1951, water-stage recorder at site 1.3 mi (2.1 km) upstream at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE: 37 years, 192,183 ac-ft/yr (163.0 km³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 24,000 ft³/s (680 m³/s) Mar. 31, 1945 (gage height, 24.1 ft or 7.35 m, present site and datum, from floodmark); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 15, 1956.

Maximum stage since at least 1875, that of March 31, 1945, from information by local residents.

REMARKS: Records good. The flow is partly regulated by Lake Winnnsboro (station 08019300) since June 1962.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	15120	11310	2270	1320	908	682	508	616	1290	2640	-
1940	2220	4490	4390	7660	9650	10320	6630	2440	2920	1080	16420	20380	88600
1941	12410	11450	23560	12830	8730	24740	7520	2040	1930	3050	5060	12900	126220
1942	9250	9290	10660	40760	32100	7330	2180	6190	3330	2750	3510	16690	144040
1943	15140	6880	8910	7800	8740	29260	2160	1020	1240	9330	2080	7630	100190
1944	19300	29590	28100	20700	52910	8990	1560	1820	2110	1330	4160	17230	187600
1945	25060	25580	111300	54980	13140	35410	11370	2980	1970	17770	8590	13630	321780
1946	45820	31840	29290	16960	59530	41920	4710	4210	3580	3560	40780	20470	302290
1947	22190	11640	18920	23650	14890	5550	1840	1600	2070	2000	5400	33200	142650
1948	23150	24070	31910	11820	29860	4320	2250	1340	1130	1490	2480	3350	136770
1949	14530	19880	16930	15690	18720	4550	14350	2990	3430	27520	7790	8050	154030
1950	37200	50840	13070	13830	53780	11860	12280	7130	6170	3410	4240	4490	218300
1951	10400	26490	10760	7110	9420	4800	1940	1060	1550	1720	2980	3270	81500
1952	4880	7830	10770	37360	13420	9050	2570	948	789	964	4610	12190	104381
1953	9550	7620	13560	12360	60100	2250	7040	2660	4110	1690	3600	11290	136100
1954	13920	8700	5270	4810	10000	4540	1090	642	539	1500	3120	4200	58331
1955	4770	7780	16400	11940	3690	1590	1460	2060	1850	1160	1140	2020	55060
1956	2830	9030	3970	2510	4600	770	470	427	506	515	1150	1510	28288
1957	1980	8080	10360	60170	35330	25690	2360	2660	3240	15060	31740	12910	209580
1958	23450	9890	18490	61520	43230	14650	8600	2210	6830	4030	9200	7510	211610
1959	5200	17560	38710	31090	10710	4870	4290	4120	3670	3050	3800	22720	129790
1960	42640	15810	17900	6120	5590	3570	3700	2310	3100	3000	4790	37960	146490
1961	23950	23250	27310	17380	5380	10440	7980	2570	3970	2360	8600	25150	158340
1962	14720	17740	20280	14220	12730	4070	3910	1630	2730	3120	4430	6070	105650
1963	6090	4370	7060	10900	11140	1780	3410	972	1270	1060	1920	2590	50562
1964	2720	4190	6450	5530	3340	1350	657	819	1130	1320	2000	1940	31446
1965	3650	11930	6650	3780	14800	6430	879	607	783	893	1190	1670	53262
1966	2360	4170	2920	42690	39650	2350	954	1480	3340	1950	2450	3260	107574
1967	4580	3320	3610	8840	8680	12690	1180	719	1130	1300	3150	7180	56379
1968	16730	9940	20750	17770	48960	12550	4500	1650	3760	2920	5220	13870	158620
1969	6870	27800	42680	25240	26570	3580	1190	994	1000	1400	5760	7770	150854
1970	9020	9550	25180	14260	7330	6220	1490	1050	1560	4370	4160	3570	87760
1971	3850	4980	4560	3170	2830	978	3600	2300	970	1570	3870	21250	53928
1972	22900	8710	7530	3260	3280	3160	1630	942	1170	2210	7420	8090	70302
1973	10810	14230	40350	63530	11800	30470	3670	2000	6070	9190	27940	24450	244510
1974	26540	13520	10540	24430	11010	24140	2450	3020	26240	7360	52610	32270	234130
1975	19560	36760	29880	21930	36310	13990	4760	2350	1700	1900	2920	4960	177020
MAX	45820	50840	111300	63530	60100	41920	14350	7130	26240	27520	52610	37960	321780
MIN	1980	3320	2920	2510	2270	770	470	427	506	515	1140	1510	28288
MEAN	14451	14944	18759	20329	20095	10582	3798	2066	3065	4042	8151	11901	132183
NO.	36	36	37	37	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	10.9%	11.3%	14.2%	15.4%	15.2%	8.0%	2.9%	1.6%	2.3%	3.1%	6.2%	9.0%	100%

SABINE RIVER BASIN

08020000 Sabine River near Gladewater, Texas

LOCATION: Lat 32°31'37", long 94°57'36", Gregg County, 46 ft (14 m) downstream from the bridge on U.S. Highway 271, 0.4 mi (0.6 km) downstream from Glade Creek, and 1.2 mi (1.9 km) southwest of Gladewater.

DRAINAGE AREA: 2,791 mi² (7,229 km²).

PERIOD OF RECORD: October 1932 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 243.85 ft (74.325 m) above mean sea level. Prior to Oct. 13, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 44 years, 1,408,052 ac-ft/yr (1,736.1 hm³/yr).

EXTREMES: Period of record (1932-75): Maximum discharge, 138,000 ft³/s (3,910 m³/s) Apr. 2, 1945 (gage height, 44.16 ft or 13.460 m, from floodmark); minimum 5.6 ft³/s (0.16 m³/s) Aug. 16, 1939.

Maximum stage since at least 1892, that of Apr. 2, 1945.

REMARKS: Records good. The flow is partly regulated by Lake Tawakoni (station 08017400) since 1960 and five smaller reservoirs, with a combined capacity of 975,500 ac-ft (1,202.8 hm³). There are many diversions above the station for offfield operations and municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	-	-	-	-	-	-	-	-	-	4970	3990	3300	-
1933	289000	56600	213000	109000	152000	69600	60000	9040	5180	9280	6010	3300	1012510
1934	92800	81100	247000	343000	27900	15400	1800	812	1170	1170	16150	40260	868562
1935	130000	207300	109000	70440	571200	321900	50320	2320	6880	23220	63850	109300	1665730
1936	21480	22280	24210	10220	114300	9250	14250	1230	758	85690	31280	49840	384788
1937	231800	99480	221300	151900	15580	12170	3080	2760	3970	4250	36970	108900	892140
1938	760800	361600	129700	648300	47660	14410	5670	6780	1240	1030	5150	10260	1992600
1939	39110	114400	192900	121500	14480	12440	6670	809	613	709	2510	9730	515871
1940	8980	27170	21920	148300	87600	166900	97060	10580	36780	4260	133600	401700	1144850
1941	259000	123100	301700	108100	330700	459800	123900	31260	34920	29650	48530	118100	1968760
1942	47290	82930	87010	805200	561000	170000	10540	65880	33620	20310	35690	66520	1985990
1943	132700	32670	66990	129500	95620	853000	11680	2600	2060	60200	10050	36900	1433970
1944	141800	213400	315500	172000	747800	204000	12350	4180	11040	4450	25040	155600	2007160
1945	315700	205600	780600	1392000	80370	546200	239100	17700	7010	158800	68170	65810	3877060
1946	353500	432400	193300	184300	357700	771800	25110	12690	22520	18310	647400	204500	3223530
1947	187700	64710	138000	245300	114700	42070	25030	3980	33070	7660	64710	407800	1334730
1948	202400	252100	322900	80050	395900	23870	14020	8310	3360	3600	9330	14940	1330780
1949	67280	233100	291700	122000	149300	62380	57700	35400	12110	135100	149600	35000	1350670
1950	306300	775600	123600	93640	461100	148300	36710	93280	50880	12450	16070	15790	2133720
1951	41190	154200	104700	31540	50760	138700	20360	2400	3730	4160	12050	17010	580800
1952	28850	43170	79910	332700	219400	179700	5970	1590	1080	1370	15220	147500	1056460
1953	85790	37370	119700	93560	818200	13530	11990	12430	24440	4160	17440	89960	1378570
1954	152800	86010	29920	53680	107100	22570	1840	776	701	24820	121900	27760	629817
1955	39550	97190	136000	166400	25990	10180	7430	11010	20510	4090	3220	8430	530000
1956	14270	70410	15770	10460	85850	2910	1030	530	558	889	9720	4340	216737
1957	13050	63490	110500	620700	996300	526200	8190	8070	19830	169700	377900	94680	3008610
1958	189900	83140	180200	240300	940200	70210	77990	9990	47450	32020	35830	38300	1926330
1959	25890	151100	132200	251600	131700	31320	31470	38100	12580	143600	48790	325100	1323450
1960	459600	170200	155400	29750	51910	36610	55080	14790	14550	26840	38910	429000	1482640
1961	225400	187000	168300	153800	31940	71160	80630	11160	16660	10260	44300	159900	1160510
1962	91260	111600	152200	81770	131600	17740	20660	13290	34430	19840	26820	68760	769970
1963	48840	20980	37780	53210	213300	18280	6920	3500	3110	1800	5170	9790	422680
1964	12210	20000	33890	45410	28200	5890	1100	1110	3510	4440	5230	8980	169970
1965	18610	133300	117300	26850	287100	286000	3650	1640	7350	3230	5220	6190	896640
1966	13190	66740	21180	388800	1051000	24880	7020	8270	31840	13340	11790	17390	1655440
1967	26380	19650	19450	63770	100200	185700	17640	1900	6630	29750	210600	154200	835870
1968	229400	187700	333100	285200	669800	185800	42050	7320	22200	11120	29710	120300	2123700
1969	42140	199700	454100	327800	552200	97120	4300	2280	2350	3350	37590	59840	1782770
1970	98070	95870	474100	148100	171100	71480	10200	2460	10160	78580	67400	19650	1247170
1971	29760	42720	40060	14340	24520	2920	14700	33130	6740	56860	110600	650300	1026650
1972	269700	62330	38220	18160	13330	25660	5080	1770	4060	13740	67990	82980	603020
1973	90050	136900	301700	539000	320200	401400	29190	7280	48500	206700	322700	283200	2686820
1974	319200	176200	88710	113300	228500	229600	18250	10470	152700	94040	466500	443900	2341370
1975	152000	536700	221000	241600	289000	219700	40190	11900	6780	6870	11450	19460	1756650
MAX	760800	775600	780600	1392000	1051000	853000	239100	93280	152700	206700	647400	650300	3877060
MIN	8980	19650	15770	10220	13330	2910	1030	530	558	709	2510	4340	169970
MEAN	146622	147423	170366	215501	275914	157645	31817	12251	17898	35261	79049	118305	1408052
NO.	43	43	43	43	43	43	43	43	43	44	44	44	43
DISTR													
OF MEAN	10.4%	10.5%	12.1%	15.3%	19.6%	11.2%	2.3%	.9%	1.3%	2.5%	5.6%	8.4%	100%

SABINE RIVER BASIN
08020200 Prairie Creek near Gladewater, Texas

LOCATION: Lat 32°28'48", long 94°57'10", Gregg County, at the bridge on State Highway 135, 0.7 mi (1.1 km) upstream from Little Caney Creek, 3.5 mi (5.6 km) upstream from the mouth, and 3.9 mi (6.3 km) south of Gladewater.

DRAINAGE AREA: 48.9 mi² (126.7 km²).

PERIOD OF RECORD: February 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 280.95 ft (85.634 m) above mean sea level.

AVERAGE DISCHARGE: 8 years, 27,244 ac-ft/yr (33.6 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 4,030 ft³/s (114 m³/s) May 10, 1968 (gage height, 9.91 ft or 3.021 m); no flow at times.

Maximum stage since 1938, 14.8 ft (4.51 m) Apr. 25, 1986, from information by the State Highway Department.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	2650	3320	3760	11590	2480	648	83.0	312	339	697	1940	-
1969	1600	3630	7070	5810	2720	347	24.0	0	11.0	47.0	894	26.10	24763
1970	2320	2490	4690	3010	864	362	110	29.0	49.0	2060	1810	1030	18824
1971	918	1160	1180	688	373	13.0	340	388	137	70.0	208	1840	7315
1972	2950	1120	2100	543	474	573	370	21.0	261	1550	2980	4280	17222
1973	2950	3200	10600	11230	1400	6490	636	229	3100	4070	4190	5390	53485
1974	6540	3690	2410	2580	1920	2380	237	331	3590	2020	5900	4040	35638
1975	3770	7540	2880	2860	6260	3420	735	245	69.0	225	739	1130	29873
MAX	6540	7540	10600	11230	11590	6490	735	388	3590	4070	5900	5390	53485
MIN	918	1120	1180	543	373	13.0	24.0	0	11.0	47.0	208	1030	7315
MEAN	3007	3185	4281	3810	3200	2008	388	166	941	1298	2177	2783	27244
NO.	7	8	8	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	11.0%	11.7%	15.7%	14.0%	11.7%	7.4%	1.4%	.6%	3.5%	4.8%	8.0%	10.2%	100%

SABINE RIVER BASIN

08020500 Sabine River near Longview, Texas

LOCATION: Lat 32°28'00", Long 94°46'50", Gregg County, at the International-Great Northern Railroad Co. bridge, and 3 mi (4.8 km) southwest of Longview.

DRAINAGE AREA: 3,013 mi² (7,803.7 km²).

PERIOD OF RECORD: January 1904 to December 1908, October 1923 to December 1932.

GAGE: Staff gage. Datum of gage is 228.67 ft (69.7 m) above mean sea level.

AVERAGE DISCHARGE: 13 years (1904-08, 1923-32), 1,349,757 ac-ft/yr (1,664.2 km³/yr).

EXTREMES: Period of record (1904-06, 1923-32): Maximum discharge, 22,300 ft³/s (631.5 m³/s) December 26, 1928; maximum gage height, 31.8 ft (9.7 m) May 22, 23, 1930; minimum discharge, 14 ft³/s (0.4 m³/s) August 29-31, 1925 (gage height, 1.1 ft or 0.3 m).

REMARKS: Records fair. There are several small diversions above the station. There is some regulation of the low flow by pumping upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1904	28530	35260	48390	227000	105000	95200	34190	10210	8628	2841	4528	12240	612017
1905	23670	69480	192700	327900	1023000	266000	601200	118900	11600	26350	81900	392800	3137500
1906	276000	244000	156000	263000	159000	88700	34700	45900	28600	51500	15200	269000	1633600
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	10300	6390	25000	-
1924	180000	132000	275000	102000	95400	71800	2910	1880	14000	3090	7590	10400	896070
1925	22100	14700	15800	22300	112000	9410	2020	1720	4710	19800	109000	21700	355260
1926	124000	82000	204000	212000	340000	60500	216000	60400	12300	14900	23300	119000	1468400
1927	232000	175000	400000	498000	131000	60100	83600	21300	5060	106000	15300	33900	1761260
1928	34100	56800	126000	161000	92800	88100	48900	19200	1840	9040	60700	349000	1047480
1929	354000	209000	221000	117000	364000	318000	21600	2480	21400	3520	27000	39800	1698800
1930	70100	208000	113000	40200	627000	114000	6210	1680	1640	25900	23600	131000	1362330
1931	40400	74400	178000	78600	66400	14700	6270	10500	9460	4460	8210	141000	632400
1932	607000	404000	291000	40900	75600	14600	31400	3040	7680	4910	4050	31300	1515480
MAX	607000	404000	400000	498000	1023000	318000	601200	118900	28600	106000	109000	392800	3137500
MIN	22100	14700	15800	22300	66400	9410	2020	1680	1640	2841	4050	10400	355260
MEAN	166158	142053	185074	174158	265933	100093	90750	24768	10577	21893	29751	138549	1349757
NO. OF MEAN	12	17	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	12.3%	10.5%	13.7%	12.9%	19.7%	7.4%	6.7%	1.8%	.8%	1.6%	2.2%	10.3%	100%

SABINE RIVER BASIN
08020700 Rabbit Creek at Kilgore, Texas

LOCATION: Lat 32°23'17", long 94°54'11", Gregg County, at the bridge on State Highway 31 at Kilgore, 0.4 mi (0.6 km) upstream from Big Caney Creek, 4.4 mi (7.1 km) upstream from Peavine Creek, and 14 mi (23 km) upstream from the mouth.

DRAINAGE AREA: 75.8 mi² (196.3 km²).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 299.80 ft (91.38 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 39,132 ac-ft/yr (48.2 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 16,200 ft³/s (430 m³/s) Apr. 24, 1966 (gage height, 16.40 ft or 4.999 m); no flow at times in 1964, 1967-68, and 1972.

Maximum stage since at least 1943, 19.6 ft (5.97 m) July 11, 1945, from information by a local resident and the State Highway Department.

REMARKS: Records good. There are several small diversions for oilfield operations upstream from the station. The low flow is partly sustained by effluents from oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	184	768	-
1964	840	1310	2650	1390	1200	231	11.0	2.00	222	50.0	336	618	8860
1965	2720	7350	5000	2410	9450	2220	299	90.0	456	85.0	293	666	31039
1966	1220	1840	1510	35830	9060	590	433	652	562	266	562	1040	53365
1967	1020	958	804	3550	1920	1610	286	25.0	37.0	12.0	75.0	767	11064
1968	4130	3120	3110	6360	13270	4510	1090	269	1740	831	2850	5840	47120
1969	2250	5040	13300	13250	6670	804	95.0	35.0	339	627	4450	5000	51060
1970	3480	4730	6520	3820	1310	690	2460	146	878	9270	2010	2620	37934
1971	1560	2850	1820	1060	1040	150	190	161	488	191	522	2420	12452
1972	5650	1690	2080	883	429	2100	149	211	286	5550	3020	5380	27428
1973	4720	5310	10820	18330	2440	14740	1990	783	4630	5920	5750	9860	85293
1974	12880	6990	6050	3520	3790	2980	379	366	6090	2960	9370	5650	61025
1975	6270	16080	4610	4570	8470	3860	1460	462	91.0	401	1050	1450	48774
MAX	12880	16080	13300	35830	13270	14740	2460	783	6090	9270	9370	9860	85293
MIN	840	958	804	883	429	150	11.0	2.00	37.0	0	75.0	618	8860
MEAN	3895	4772	4840	7914	4921	2874	737	267	1318	2013	2344	3237	39132
NO.	12	12	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	10.0%	12.2%	12.4%	20.2%	12.6%	7.3%	1.9%	.7%	3.4%	5.1%	6.0%	8.3%	100%

SABINE RIVER BASIN

08021000 Cherokee Bayou near Eldarville, Texas

LOCATION: Lat 32°20'30", long 94°42'01", Rusk County, at the bridge on a county highway, 3.8 mi (6.1 km) southeast of Eldarville, 4.5 mi (7.2 km) upstream from the bridge on State Highway 149, and 19.3 mi (31.1 km) upstream from the mouth.

DRAINAGE AREA: 116 mi² (300.4 km²).

PERIOD OF RECORD: September 1939 to December 1948.

GAGE: Water-stage recorder. Datum of gage is 266.8 ft (81.3 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 118,809 ac-ft/yr (144.0 hm³/yr).

EXTREMES: Period of record (1939-48): Maximum discharge, 10,200 ft³/s (288.9 m³/s) November 23, 1940 (gage height, 12.81 ft or 3.9 m); no flow at times.

Maximum stage known, about 14.0 ft (4.3 m) in September 1913, from information by local residents.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	0	0	141	2790	-
1940	1810	3910	2490	2480	2570	3400	1270	7330	696	828	39610	32590	98984
1941	23960	13880	15520	8290	12460	7220	2340	2380	4400	10180	19120	15250	135000
1942	11580	11130	12130	17760	17270	14550	2070	19090	7090	2150	6640	6980	128440
1943	8700	5520	6280	7740	2850	2650	141	17.0	7.70	300	539	2200	36945
1944	11500	27570	23440	13460	52280	3300	250	129	1550	533	5220	21210	160442
1945	27480	14150	32070	23040	4820	13030	23200	1100	381	14590	8920	16100	178881
1946	27210	24630	15460	7500	29520	23740	2260	2990	2100	2020	19380	10490	167300
1947	19120	10540	21000	16280	18340	3820	865	356	1040	743	3010	7680	102794
1948	12220	18210	12730	6150	9300	1360	529	14.0	36.0	186	2860	3200	66795
MAX	27480	27570	32070	23040	52280	23740	23200	19090	7090	14590	39610	32590	178881
MIN	1810	3910	2490	2480	2570	1360	141	14.0	0	0	141	2200	36945
MEAN	15953	14393	15680	11411	16601	8119	3658	3712	1730	3153	10544	11849	116803
NO.	9	9	9	9	9	9	9	9	10	10	10	10	9
DISTR OF MEAN	13.7%	12.3%	13.4%	9.8%	14.2%	7.0%	3.1%	3.2%	1.5%	2.7%	9.0%	10.1%	100%

SABINE RIVER BASIN

08021500 Lake Cherokee near Longview, Texas

LOCATION: Lat 32°22'36", long 94°38'30", Gregg-Rusk County line, on the left wingwall of the intake structure of the electric generating plant of the Southwestern Electric Power Co., 2.3 mi (3.7 km) upstream from the dam on Cherokee Bayou, 10 mi (16 km) upstream from the Sabine River, and 10.3 mi (16.6 km) southeast of Longview.

DRAINAGE AREA: 158 mi² (409 km²).

PERIOD OF RECORD: April 1961 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES: Period of record (1961-75): Maximum contents, 71,170 ac-ft (87.8 hm³) May 3, 1959 (elevation, 285.5 ft or 87.02 m); minimum contents, 34,520 ac-ft (42.7 hm³) Oct. 16-18, 31, 1956, Aug. 8, 18-21, and Aug. 31 to Sept. 8, 11-18, 1958 (elevation, 276.6 ft or 84.31 m).

REMARKS: The lake is formed by a rolled earthfill dam 4,000 ft (1,220 m) long, with a capacity of 46,700 ac-ft (67.6 hm³). An uncontrolled concrete spillway 838 ft (252 m) long is located at the left end of the dam. An emergency spillway, 180-foot (49-m) wide, is cut in natural ground at the right end of the dam. Storage began in October 1948 and the dam was completed on Nov. 19, 1948. The dam was built by the Cherokee Water Company for recreational purposes and to supply cooling water for the generating plant of the Southwestern Electric Power Co., as well as for municipal use by the City of Longview.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1951	-	-	-	47100	46700	46700	45150	43270	43640	43270	44390	46700
1952	47480	47100	47100	46700	47100	45150	44010	41430	38950	37570	38950	42900
1953	46700	47480	46700	48670	46700	45540	46700	46320	45920	44390	45920	47100
1954	47480	47100	47100	47480	47880	45150	42160	40000	37230	39300	43640	47100
1955	47480	47880	47100	47100	47100	45920	46700	40000	47480	45920	45150	46700
1956	47100	46700	47100	46700	46320	44390	41430	38600	35580	34620	35260	35580
1957	37570	41430	47100	49880	47100	46700	45540	43640	42900	47480	47880	47880
1958	47480	40710	36230	40710	35900	35900	35260	34620	41430	42900	45540	46700
1959	46700	47100	46700	46700	46700	46700	46700	45920	46320	46320	46700	47880
1960	47880	48270	47480	47480	46700	47100	46700	44770	47480	46700	47480	47880
1961	47480	47880	47480	46700	46700	47480	46700	46700	46700	46700	47480	47100
1962	47880	47880	47100	48270	47100	46700	46320	44010	44390	46320	47480	47480
1963	47100	47480	46700	46700	46320	45540	44390	42160	42530	40710	40710	42900
1964	45150	46700	46700	46700	45920	44390	40000	40000	38600	37230	37230	38600
1965	42530	47880	49470	47100	48270	47480	44010	41430	41790	40000	40000	42160
1966	44770	47100	46700	50290	47100	44390	42530	42530	42530	41430	40710	42900
1967	44390	45920	46700	46700	48270	44770	43640	40710	39650	37230	36560	39300
1968	47480	47100	47100	47480	47100	47480	46700	43640	46700	45920	46670	47480
1969	47480	47480	47480	47880	47100	45150	41430	38250	38250	37910	45150	48270
1970	47100	48270	47100	47480	46700	45920	46700	43640	43640	47880	46320	47100
1971	46700	47480	46700	46700	45920	42900	40000	40000	38600	37910	37230	42900
1972	48270	47100	47100	47100	45540	46700	46700	42160	40710	46700	47480	47480
1973	48270	47480	47480	47880	46700	47100	48270	45540	46700	47880	48670	46700
1974	47880	47480	47480	47480	46700	45920	42900	42900	47480	46700	47880	47880
1975	47480	47480	47480	49470	47880	47100	45540	45150	43640	43270	45150	47100
MAX	48270	48270	49470	50290	48270	47480	48270	46700	47480	47880	48670	48270
MIN	37570	40710	36230	40710	35900	35900	35260	34620	35580	34620	35260	35580
MEAN	46493	46853	46724	47298	46461	45531	44247	42564	42754	42890	43905	45271
NO.	24	24	24	25	25	25	25	25	25	25	25	25
DISTR OF MEAN	8.6%	8.7%	8.6%	8.7%	8.6%	8.4%	8.2%	7.9%	7.9%	7.9%	8.1%	8.4%

SABINE RIVER BASIN

08022000 Sabine River near Tatum, Texas

LOCATION: Lat 32°22'11", long 94°27'28", Harrison-Panola County line, at the bridge on State Highway 43, 5.1 mi (8.2 km) northeast of Tatum, 5.2 mi (8.4 km) upstream from Potters Creek, and 5.6 mi (9.0 km) downstream from Cherokee Bayou.

DRAINAGE AREA: 3,493 mi² (9,047 km²).

PERIOD OF RECORD: October 1938 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 204.18 ft (62.234 m) above mean sea level. Prior to Sept. 21, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 38 years, 1,827,112 ac-ft/yr (2,252.8 hm³/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 123,000 ft³/s (3,480 m³/s) Apr. 4, 1946 (gage height, 33.80 ft or 10.302 m, from a graph based on gage readings); minimum, 2.4 ft³/s (0.068 m³/s) Aug. 11, 12, 1964.

Maximum stage since at least 1884, that of Apr. 4, 1946.

REMARKS: Records fair. The flow is partly regulated since 1960 by Lake Tawakoni (station 08017400) located 175 mi (282 km) upstream and by six small reservoirs having a combined capacity of 1,022,000 ac-ft (1,260.1 hm³). There are several diversions above the station and below Lake Tawakoni for oilfield operation, municipal, and industrial uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	1440	9340	15130	-
1939	71420	141100	237000	129800	367900	187500	92700	14600	797	783	4240	17460	668870
1940	18530	42520	38800	149800	85400	170800	114900	25680	44320	7770	221600	509100	1427220
1941	402400	177200	356800	174300	356300	370700	226200	44570	42080	56090	106600	170400	2483640
1942	83980	126100	128800	675400	681800	289400	28750	132400	763500	26370	48260	67770	2355380
1943	180700	53200	76540	158100	94650	810500	18530	4600	4160	58280	14020	45440	1518720
1944	180500	290200	431200	306600	1037000	282700	16930	5640	18370	7390	34340	210400	2621270
1945	463600	200900	996500	1697000	111800	511900	376100	31210	12600	187300	95010	115300	4799220
1946	447400	521700	338400	230000	376000	928900	43460	21020	35770	27660	706500	275600	3952410
1947	251000	135000	229600	302000	214100	58090	36200	7120	36800	12020	66810	375000	1723740
1948	311800	349300	374900	124600	406600	43980	22830	11590	5210	4750	17470	21170	1694200
1949	92300	262000	334600	178600	181900	77470	106500	62400	26420	140000	189100	55320	1706610
1950	411100	813500	235600	115600	558600	203900	47490	102300	60200	19630	23720	23390	2615230
1951	61340	154200	171700	60220	73700	135300	27560	5350	7770	5950	15610	27960	746660
1952	56010	111800	121600	234400	330900	204500	9730	3100	1270	1470	13450	133400	1221630
1953	100300	56010	184700	118700	921300	88950	82070	20280	31450	5740	22860	108900	1741260
1954	154900	117900	51960	64680	162000	34000	2260	1030	639	15530	138800	38820	782519
1955	63390	147300	148400	236900	58750	18970	15200	19600	32710	8000	4910	12600	766730
1956	22720	112200	31140	17170	157000	5060	1870	1040	856	1150	10540	5310	366076
1957	13690	64840	89160	500700	1377000	762300	19080	12290	16320	200200	490300	156600	3702480
1958	240200	163200	194200	200300	1235000	81140	85530	12260	47620	40580	33060	46690	2379780
1959	36450	139800	182100	219400	342300	66030	44410	49950	17520	140000	57040	258100	1553100
1960	594800	267100	270700	50610	58040	39520	60740	15160	22460	37220	56670	605400	2078620
1961	373100	290400	313000	234400	43680	101400	133600	22710	35540	20590	83890	247100	1894010
1962	175700	161300	203800	128000	180200	29980	27050	16260	36090	25790	33920	83880	1101970
1963	68380	37390	55820	44990	216700	23770	9680	6360	4880	2610	4890	12230	487700
1964	14680	25780	51140	50180	45130	8110	1970	3390	5750	6700	5570	17560	235960
1965	38930	166400	152300	68220	252600	379300	9790	2620	6740	5920	6040	8870	1097730
1966	19510	75720	34900	379700	1292000	60030	8580	10630	34670	15200	13600	19360	1963900
1967	36630	26810	27330	81600	118600	213800	37690	3320	6740	26660	201400	131300	911880
1968	303000	231100	323200	421500	632000	304900	65110	10830	44720	17010	48540	195000	2596910
1969	71380	244900	534700	598800	567200	178000	6490	2260	3950	4350	55720	76350	2344100
1970	146000	124900	504200	225800	206900	81060	22040	3180	10570	96750	101000	39870	1562270
1971	40380	63580	59840	21150	29300	4610	11280	37890	8420	43600	123200	579300	1022550
1972	2320	3480	2630	8710	2020	30200	107500	22700	45560	33520	117900	141600	518140
1973	140200	207200	375200	598300	579100	570600	64050	21630	93390	265900	398800	464400	3778770
1974	423800	350100	151600	119200	306300	332400	29960	13690	204400	117100	489200	606700	3144450
1975	233300	662400	242200	247100	369100	236100	56610	17850	8940	8130	14630	23370	2119730
MAX	594800	813500	996500	1697000	1377000	928900	376100	132400	204400	265900	706500	606700	4799220
MIN	2320	3480	2630	8710	2020	4610	1870	1030	639	783	4240	5310	235960
MEAN	171455	192122	223148	247906	370210	209652	53703	21226	29515	44609	107336	156230	1827112
NO.	37	37	37	37	37	37	37	37	37	38	38	38	37
DISTR													
OF MEAN	9.4%	10.5%	12.2%	13.6%	20.3%	11.5%	2.9%	1.2%	1.6%	2.4%	5.9%	8.6%	100%

SABINE RIVER BASIN

08022060 Martin Lake near Tatum, Texas

LOCATION: Lat 32°16'30", long 94°33'08", Rusk County, near the left end of Martin Dam, and 3.5 mi (3.6 km) southwest of Tatum.

DRAINAGE AREA: 130 mi² (337 km²).

PERIOD OF RECORD: April 1974 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES: Period of record (1974-75): Maximum contents, 75,400 ac-ft (93.0 hm³) July 12, 1975 (elevation, 305.57 ft or 93.138 m, from graph); minimum contents since the first appreciable storage, 70,600 ac-ft (87.0 hm³) May 5, 1975 (elevation, 304.58 ft or 92.836 m).

REMARKS: The lake is formed by a rolled earthfill dam 8,500 ft (2,591 m) long, including a 1,000-foot (305-m) uncontrolled emergency spillway. Deliberate impoundment began in April 1974. The capacity of the lake is 77,500 ac-ft (85.6 hm³). The uncontrolled emergency spillway is an excavated channel cut through natural ground and located at the left end of the dam. The controlled spillway is a concrete ogee design with four 14- x 40-foot wide (4- x 12-m)ainter gates located near the left end of the dam. The low-flow outlet works consist of a 3- x 5-foot (1- x 2-m) conduit with a sluice gate located in one of the gate piers. In addition, there is an 8-inch (203-millimeter) pipe with a sluice gate. The dam is owned by the Dallas Power and Light Company, Texas Electric Service Company, Texas Power and Light Company, and the Texas Utilities Service, Inc.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1974	-	-	-	2090	5220	5870	5360	5960	12500	16700	28600	37400
1975	47600	57700	65600	73600	73600	73600	74800	73600	71800	72100	73500	72700
MAX	47600	57700	65600	73600	73600	73600	74800	73600	71800	72100	73500	72700
MIN	47600	57700	65600	2090	5220	5870	5360	5960	12500	16700	28600	37400
MEAN	47600	57700	65600	37845	39410	39735	40080	39780	42150	44400	51050	55050
NO.	1	1	1	2	2	2	2	2	2	2	2	2
DISTR												
OF MEAN	8.5%	10.3%	11.7%	6.8%	7.0%	7.1%	7.2%	7.1%	7.5%	7.9%	9.1%	9.8%

SABINE RIVER BASIN
08022070 Martin Creek near Tatum, Texas

LOCATION: Lat 32°17'47", long 94°29'36", Panola County, at the bridge on State Highway 149, 100 ft (30 m) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.7 mi (2.7 km) upstream from Hogan Creek, 2.0 mi (3.2 km) southeast of Tatum, and 5.0 mi (8.0 km) downstream from Martin Lake.

DRAINAGE AREA: 148 mi² (383 km²).

PERIOD OF RECORD: May 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 240.26 ft (73.231 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1974-75): Maximum discharge, 1,700 ft³/s (48.1 m³/s) Feb. 3, 1975 (gage height, 13.72 ft or 4.182 m); minimum, 0.30 ft³/s (0.008 m³/s) July 20-24, 1974.

Maximum stage since at least 1948, 18.15 ft (5.532 m) April 1969.

REMARKS: Records good. The flow is largely regulated by Martin Lake located 5 mi (8 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	516	534	75.0	274	1430	1290	2820	2040	-
1975	5020	18610	1580	1840	19320	6320	434	310	194	1390	784	5550	61352
MAX	5020	18610	1580	1840	19320	6320	434	310	1430	1390	2820	5550	61352
MIN	5020	18610	1580	1840	516	534	75.0	274	194	1290	784	2040	61352
MEAN	5020	18610	1580	1840	9918	3427	255	292	812	1340	1802	3795	48691
NO.	1	1	1	1	2	2	2	2	2	2	2	2	1
DISTR OF MEAN	10.3%	38.2%	3.2%	3.8%	20.4%	7.0%	.5%	.6%	1.7%	2.8%	3.7%	7.8%	100%

SABINE RIVER BASIN

08022200 Murvaal Lake near Gary, Texas

LOCATION: Lat 32°02'04", long 94°25'15", Panola County, at the outlet structure of Murvaal Lake Dam on Murvaal Bayou, 3.0 mi (4.8 km) west of Gary, and 9.0 mi (14.5 km) southwest of Carthage.

DRAINAGE AREA: 115 mi² (298 km²).

PERIOD OF RECORD: December 1957 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1957-75): Maximum contents, 68,050 ac-ft (7.16 hm³) Mar. 30, 1965 (elevation, 268.24 ft or 81.76 m); minimum contents since the lake was first filled in 1958, 26,670 ac-ft (32.9 hm³) Sept. 19, 1968 (elevation, 259.9 ft or 79.22 m).

REMARKS: The lake is formed by a rolled earthfill dam 8,300 ft (2,530 m) long, with a capacity of 46,940 ac-ft (56.6 hm³). The spillway is an uncontrolled concrete flat-crested weir section 270 ft (82 m) long at the right end of the dam, designed to discharge 26,700 ft³/s (756 m³/s) under a 10-foot (3-m) head. Storage began in November 1957 and the dam was completed in June 1958. The outlet works consist of an outlet tower and a 36-inch diameter (914-millimeter) pipe through the dam with the flow controlled by a valve in the control tower. The pipe terminates in a tee at the downstream side of the dam, with one branch discharging below the dam and the other branch connected to a pipeline for municipal water supply. The lake is the property of the Panola County Fresh Water Supply District No. 1.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1957	-	-	-	-	-	-	-	-	-	-	-	31490
1958	35650	33200	33550	48660	45440	47040	40030	31150	41170	33200	27600	27900
1959	28220	37450	38180	44260	44600	44260	44260	42700	41930	41740	43520	46480
1960	46360	47440	46920	47040	42970	42780	42040	40600	46000	46640	46720	49480
1961	47720	47320	50630	44340	41660	46880	46080	43640	44840	42970	45520	46240
1962	48210	47200	45720	48330	49600	46080	43830	40110	34320	35230	34880	35540
1963	35940	38140	37810	38250	36190	34740	32820	30890	30190	28760	28920	29120
1964	31150	32850	40900	43560	43280	41660	39030	37670	36660	35100	34390	34780
1965	35500	41320	54540	45120	48170	46280	43790	42660	43010	40750	39620	43990
1966	47760	44420	44180	52360	46160	43010	39330	38740	36300	33580	32270	32510
1967	32340	32580	32340	32170	33380	33270	34840	33440	34360	33130	32580	33940
1968	45840	47080	47240	47720	47240	47920	46600	46040	46840	46040	49070	47560
1969	47360	47920	47240	47600	46440	44220	41440	39620	38550	37960	45480	48450
1970	46360	48500	46840	47160	45760	44260	43050	40900	40560	42580	43480	44300
1971	44180	47040	46040	46320	46160	44960	43560	43480	42580	41930	42470	46640
1972	47600	46600	46560	47400	45680	46000	47200	45920	45440	48580	47320	48660
1973	48330	47200	47840	48000	45880	46320	49150	46120	47360	47240	48090	47680
1974	49440	47840	47240	46920	47200	45080	43090	42470	46560	49280	47800	47040
1975	47640	46960	47680	48860	46760	47360	45480	45360	44030	44420	46240	47720
MAX	49440	48500	54540	52360	49600	47920	49150	46120	47360	49280	49070	49480
MIN	28220	32580	32340	32170	33380	33270	32820	30890	30190	28760	27600	27900
MEAN	42533	43392	44525	45782	44587	44007	42534	40639	41150	40507	40887	41554
NO.	18	18	18	18	18	18	18	18	18	18	18	19
DISTR												
OF MEAN	8.3%	8.5%	8.7%	8.9%	8.7%	8.6%	8.3%	7.9%	8.0%	7.9%	8.0%	8.1%

SABINE RIVER BASIN

08022300 Murvaul Bayou near Gary, Texas

LOCATION: Lat 32°02'54", long 94°22'31", Penola County, at the bridge on Farm Road 10, 0.3 mi (0.5 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.0 mi (1.6 km) downstream from Indian Creek, 1.5 mi (2.4 km) north of Gary, and 3 mi (5 km) downstream from Murvaul Lake.

DRAINAGE AREA: 134 mi² (347 km²).

PERIOD OF RECORD: April 1958 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 217.82 ft (66.382 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 16 years, 62,480 ac-ft/yr (77.0 km³/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 3,580 ft³/s (102 m³/s) Mar. 18, 1969 (gage height, 11.57 ft or 3.527 m); no flow at times in 1967-75.

Maximum stage since at least 1928, 14.5 ft (4.42 m) in July 1933, from information by a local resident.

REMARKS: Records good. The discharge is largely regulated by Murvaul Lake (station 06022200).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	2090	14520	13830	4200	6170	6770	5680	5560	304	-
1959	599	2050	491	885	4400	5260	941	651	562	580	785	11960	29164
1960	11500	13690	17840	4560	3390	653	673	536	1630	1650	6000	33720	95842
1961	34870	14510	23360	6400	1820	2560	5520	920	2160	1610	2410	28170	126310
1962	16700	6590	7370	5790	9320	5510	1410	1940	4670	1520	1630	1810	64260
1963	1560	1520	1710	1740	1090	402	369	371	380	283	257	293	9975
1964	484	484	1620	697	365	357	328	330	328	328	370	320	6011
1965	370	1040	9790	9890	8210	2110	179	181	821	938	950	1290	35769
1966	1840	7150	1020	21630	16830	1790	1920	2050	1890	1900	618	576	59214
1967	362	13.0	15.0	12.0	94.0	190	50.0	5.30	378	29.0	0	30.0	1178
1968	2890	380	2980	29570	22540	3350	3090	1360	7810	703	3060	23720	101453
1969	3560	16580	37590	33780	18260	522	75.0	0	54.0	0	648	1420	112509
1970	6360	7320	10880	4030	819	61.0	44.0	15.0	13.0	155	210	83.0	29990
1971	56.0	545	816	358	5220	19.0	.20	18.0	129	25.0	78.0	1450	8714
1972	12670	3130	2210	816	3910	77.0	637	350	52.0	1450	13770	13160	52222
1973	25560	9040	18500	22480	2360	10260	7660	3040	7960	9900	5890	25110	147750
1974	36010	17430	4650	2960	2520	841	.30	55.0	1900	3550	16390	9440	95746
1975	16420	20450	7570	7190	7280	2520	1050	97.0	14.0	36.0	189	552	63368
MAX	36010	20450	37590	33780	22540	13830	7660	6170	7960	9900	16390	33720	147750
MIN	56.0	13.0	15.0	12.0	94.0	19.0	.20	0	13.0	0	0	30.0	1178
MEAN	10107	7172	8730	8715	6832	2795	1564	1005	2085	1685	3268	8522	62480
NO.	17	17	17	18	18	18	18	18	18	18	18	18	17
DISTR													
OF MEAN	16.2%	11.5%	14.0%	13.9%	10.9%	4.5%	2.5%	1.6%	3.3%	2.7%	5.2%	13.6%	100%

SABINE RIVER BASIN

09022400 Sogagee Creek near Carthage, Texas

LOCATION: Lat 32°13'54", long 94°05'31", Panola County, at the bridge on Farm Road 123, 1.4 mi (2.3 km) upstream from Salt Creek, and 15 mi (24.1 km) east of Carthage.

DRAINAGE AREA: 82.6 mi² [214 km²].

PERIOD OF RECORD: March 1962 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 230.00 ft (70.10 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 30,013 ac-ft/yr (37.0 hm³/yr).

EXTREMES: Period of record (1962-73): Maximum discharge, 8,540 ft³/s (165 m³/s) July 8, 1973, gage height, 11.66 ft (3.55 m); no flow for many days.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	4800	5530	7090	1090	89.0	0	3.80	54.0	97.0	603	-
1963	556	843	1140	1090	274	46.0	163	7.70	0	0	1.20	108	4229
1964	543	712	3980	6290	340	11.0	0	0	0	9.3	0	0	11885
1965	241	2930	4290	4060	2070	342	4.60	1.20	25.0	0	0	1050	15014
1966	862	2440	430	13530	7480	10.0	0	0	0	0	0	0	24752
1967	.70	2.20	2.70	70.0	1730	7650	80.0	0	0	0	0	0	9536
1968	7100	841	1650	14950	14990	171	120	8.80	3820	846	1930	12580	59007
1969	1570	14360	23480	25410	8360	44.0	0	0	0	0	2420	593	76237
1970	2630	6090	8940	1850	984	182	652	6.80	0	876	502	2620	25333
1971	363	3110	1370	278	3620	14.0	234	698	3.70	0	2.00	608	10301
1972	6510	1470	1560	77.0	1070	151	1960	618	3.00	467	3720	6350	23956
1973	15800	4450	12600	16270	1070	5220	12800	972	1470	-	-	-	-
MAX	15800	14360	23480	25410	14990	7650	12800	972	3820	876	3720	12580	76237
MIN	.70	2.20	2.70	70.0	274	10.0	0	0	0	0	0	0	4229
MEAN	3289	3386	5354	7450	4090	1244	1342	193	444	205	788	2228	30013
NO.	11	11	12	12	12	12	12	12	12	11	11	11	10
DISTR OF MEAN	11.0%	11.3%	17.8%	24.8%	13.6%	4.1%	4.5%	.6%	1.5%	.7%	2.6%	7.4%	100%

SABINE RIVER BASIN

08022500 Sabine River at Logansport, Louisiana

LOCATION: Lat 31°58'20", long 94°00'22", Shelby County, Texas—DeSoto Parish, Louisiana State line at Logansport, Louisiana, 4,700 ft (1,432.6 m) upstream from the bridge on U.S. Highway 84, 4,900 ft (1,493.5 m) upstream from the Texas and New Orleans Railroad Co. bridge, 4.0 mi (6.4 km) upstream from Bayou Castor, and 105 mi (168.9 km) upstream from Toledo Bend Dam.

DRAINAGE AREA: 4,839 mi² (12,533 km²).

PERIOD OF RECORD: July 1903 to February 1988.

GAGE: Water-stage recorder. Datum of gage is 147.72 ft (45.0 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 66 years, 2,327,010 ac-ft/yr (2,869.2 hm³/yr).

EXTREMES: Period of record (1903-68): Maximum discharge, 92,000 ft³/s (2,605.4 m³/s) April 8, 1946 (gage height, 44.07 ft or 13.4 m at site 4,700 ft or 1,432.6 m downstream); minimum observed during periods of daily records, 16 ft³/s (0.4 m³/s) September 26-28 and October 3-4, 1939.

Maximum stage since at least 1884, that of April 8, 1945.

REMARKS: Records good. Eight major reservoirs, with a combined capacity of 1,068,000 ac-ft (1,316.8 hm³), largely regulate the flow. There are numerous diversions above the station for oilfield operations, municipal, and industrial use.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1903	-	-	-	-	-	-	221000	87900	14400	71900	33200	28600	-
1904	289000	514000	608000	2720000	1270000	1150000	544000	212000	117000	64000	63700	123700	878870
1905	1700000	3490000	4534000	5740000	11890000	6299000	8162000	2545000	262000	375000	1860000	393900	50796000
1906	778100	2940000	2660000	4747000	2210000	2200000	695000	1230000	568000	830000	255000	245000	28566000
1907	3510000	844000	1970000	1180000	4990000	4430000	573000	99000	50900	78100	2430000	433000	24485000
1908	2880000	4340000	2460000	2010000	8859000	3170000	280000	382000	454000	324000	201000	506000	25866000
1909	508000	1500000	1320000	666000	312000	268000	68200	39100	26800	64600	51200	652000	5475900
1910	627000	900000	1400000	2020000	1370000	300000	304000	45100	25900	20800	21100	60000	7093900
1911	1920000	1930000	3090000	1990000	1240000	786000	621000	115000	50000	49700	879000	970000	5767000
1912	1130000	638000	4169000	5438000	1780000	311000	275000	3140000	405000	60000	56200	138000	17540200
1913	507000	966000	4168000	2230000	658000	261000	2310000	119000	1270000	2740000	397000	5681000	21299000
1914	2220000	2710000	2470000	4770000	10740000	1940000	148000	395000	299000	146000	179000	1880000	27897000
1915	3820000	4721000	4690000	2499000	9810000	750000	1330000	3843000	2750000	511000	1150000	1020000	36894000
1916	2220000	4501000	695000	2240000	4470000	590000	432000	168000	123000	81200	232000	430000	16182200
1917	732000	1340000	1250000	797000	534000	666000	719000	263000	375000	189000	851000	141000	7091100
1918	281000	210000	219000	1420000	2790000	511000	108000	113000	201000	121000	684000	1960000	8618000
1919	4020000	2770000	2590000	2210000	1100000	1360000	2820000	2230000	1370000	6566000	9991000	4380000	41407000
1920	6375000	3500000	3870000	2970000	2390000	2090000	695000	1230000	952000	492000	714000	1537000	26815000
1921	3858000	2253000	3228000	6485000	5327000	1228000	2258000	2021000	1500000	76200	918000	3354000	25492500
1922	768700	1400000	5720000	10570000	7586000	1548000	7759000	2658000	1144000	594000	4095000	3317000	29549400
1923	687400	3432000	3808000	4457000	1941000	1532000	2918000	533000	5245000	310000	2940000	3450000	20781000
1924	5400000	3170000	4930000	2670000	2480000	2730000	953000	749000	1030000	763000	593000	1330000	21921800
1925	505000	2900000	3330000	2960000	1120000	1300000	482000	291000	595000	237000	3080000	4510000	6578800
1926	1960000	1200000	4530000	6270000	4640000	1000000	1800000	1000000	1040000	1620000	3040000	1820000	24790000
1927	2900000	2950000	5450000	6840000	3670000	1078000	932000	773000	701000	1100000	2110000	4540000	26420100
1928	545000	874000	2750000	2590000	1960000	1370000	959000	430000	447000	1170000	8630000	2870000	15372700
1929	5790000	3260000	3340000	1690000	3070000	4440000	352000	492000	2010000	640000	3270000	6120000	23195200
1930	3740000	3530000	2130000	5580000	6330000	4770000	1350000	627000	5350000	3070000	2800000	1880000	23776200
1931	1840000	1340000	3100000	1270000	2390000	4500000	223000	1130000	976000	2500000	1790000	4640000	15667600
1932	12700000	11200000	7070000	1840000	1110000	219000	309000	676000	845000	585000	6130000	4450000	35164900
1933	4300000	2930000	4600000	3630000	3110000	1290000	3520000	1390000	2420000	1500000	1560000	3860000	25704000
1934	2880000	1740000	8880000	5510000	7750000	2680000	5710000	1800000	2060000	2450000	3942000	16560000	19223400
1935	1773000	3796000	1850000	1275000	10750000	3192000	1648000	1258000	1391000	3167000	1275000	23610000	28501600
1936	618400	623300	787900	276900	1446000	250600	392900	418000	2360000	641700	3588000	8263000	6288200
1937	4841000	2761000	4078000	2515000	3982000	2383000	752000	635000	996000	1085000	7656000	19160000	17859900
1938	6243000	7295000	3882000	6674000	3717000	3605000	2133000	3364000	4030000	2520000	2434000	2830000	29313100
1939	2362000	3610000	4080000	1396000	7978000	2921000	1288000	2360000	1390000	1200000	5200000	10310000	13799200
1940	4919000	2402000	5749000	2086000	1477000	2515000	1415000	2783000	6948000	1373000	4238000	9769000	26079200
1941	7749000	3054000	5716000	2644000	5335000	4948000	4113000	4526000	6059000	1086000	3065000	2736000	41504500
1942	1693000	1661000	2892000	7291800	10200000	4347000	5586000	1174000	1466000	3063000	5442000	7284000	32863500
1943	2525000	7926000	9580000	1847000	9556000	7433000	9468000	8040000	4890000	6088000	2064000	6864000	17088900
1944	3883000	4065000	6429000	5663000	15660000	4192000	2329000	8120000	2230000	8630000	3392000	2242000	43096600
1945	8991000	3359000	13160000	20480000	1740000	2988000	5823000	5754000	1834000	2725000	1165000	2092000	63281800
1946	7549000	8676000	7212000	3351000	5333000	11860000	6656000	2150000	5264000	3517000	6679000	4223000	56641700
1947	4770000	2713000	4604000	4865000	3271000	8099000	4638000	8710000	3577000	1238000	6867000	3315000	26067000
1948	4216000	5806000	5839000	2017000	4191000	1578000	2606000	1127000	5940000	5650000	2143000	3370000	24687500
1949	1917000	3552000	4392000	2683000	2202000	1020000	1218000	9008000	3307000	2629000	2138000	1062000	24044500
1950	6565000	9971000	4737000	1326000	6996000	4137000	9847000	1047000	6586000	3242000	3214000	3042000	37372100
1951	9440000	2376000	2366000	1203000	7476000	1149000	4170000	6450000	1147000	5820000	1507000	5186000	10109300
1952	8965000	3449000	2663000	3836000	3966000	2380000	1396000	6270000	2280000	7070000	1361000	18871600	

SABINE RIVER BASIN

08022500 Sabine River at Logansport, Louisiana—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	143400	211900	430200	156200	1372000	291100	78070	33570	29510	5960	22030	127400	2901340
1954	170400	165100	72690	87840	302100	50690	5110	2120	1320	8760	154300	64940	1085370
1955	114400	257700	223300	428000	183300	40380	25700	119800	32990	14170	5470	14420	1459630
1956	24900	194100	80910	83250	317400	9590	3430	1920	1520	1620	11460	6390	736490
1957	13410	110700	135100	550300	1815000	843600	43580	16420	13080	239200	626700	352300	4759390
1958	371900	248400	262500	227200	1469000	145200	123700	27770	146200	77580	54200	60240	3213890
1959	49540	211200	256500	290500	411300	127800	49900	62610	20770	132400	66870	250200	1929590
1960	633500	440300	484300	97620	88730	47930	75020	21370	31110	53540	92100	760100	2825620
1961	649900	403400	521000	387200	60530	177600	204200	35140	75450	33470	109800	514400	3172090
1962	325900	304900	311700	189100	286300	61600	36570	22260	42490	30290	32950	98460	1742520
1963	82410	54370	77830	61390	240100	31310	16580	9260	6580	3980	6730	16030	606570
1964	25520	38060	110900	89570	69980	11260	3470	8200	4850	10530	6660	20190	399190
1965	48680	200700	222400	200100	296800	433900	18600	5900	10080	9830	7170	26500	1480660
1966	41520	144600	47790	224800	1831000	95970	13460	15880	35330	18360	14170	19370	2502250
1967	38310	31800	27300	70020	126500	254400	42690	5500	7650	20990	180800	107900	913860
1968	381000	244500	-	-	-	-	-	-	-	-	-	-	-
MAX	1270000	1120000	1316000	2048000	1831000	1186000	816200	384300	275000	656600	999100	976900	6328180
MIN	13410	19300	21900	27690	31200	7860	3430	1800	1320	1200	2110	6000	399190
MEAN	285909	274193	320481	317473	437196	200521	94074	47963	33099	49885	95215	171001	2327010
NO.	65	65	64	64	64	64	65	65	65	65	65	65	64
Q15TR													
OF MEAN	12.3%	11.8%	13.8%	13.6%	18.8%	8.6%	9.0%	2.1%	1.4%	2.1%	4.1%	7.3%	100%

SABINE RIVER BASIN

08023200 Tenaha Creek near Shelbyville, Texas

LOCATION: Lat 31°45'56", long 94°06'02", Shelby County, at the bridge on State Highway 87, 0.5 mi (0.8 km) northwest of Shelbyville, 4.2 mi (6.8 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 5.0 mi (8.0 km) upstream from Beauchamp Creek.

DRAINAGE AREA: 87.8 mi² (253 km²).

PERIOD OF RECORD: March 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 205.71 ft (62.700 m) above mean sea level, datum of 1929. Prior to May 9, 1963, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 24 years, 57,019 ac-ft/yr (70.3 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 15,200 ft³/s (430 m³/s) Mar. 11, 1953 (gage height, 13.85 ft or 4.221 m); no flow at times.

Maximum stage since at least 1884, 15.0 ft (4.57 m) Nov. 23, 1940, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	7130	14060	4390	539	428	108	21.0	21.0	533	2690	-
1953	3730	10370	39110	24620	64990	1160	979	1200	106	62.0	246	1350	147923
1954	2420	1540	795	1350	7080	73.0	3.80	3.40	0	21.0	144	292	13722
1955	1240	4890	5040	12030	2880	147	192	1660	29.0	22.0	49.0	204	28383
1956	923	5800	1630	6080	4040	118	32.0	3.60	2.20	0	0	25.0	18654
1957	242	1140	2760	20150	10810	10800	331	118	195	8360	36660	5900	97466
1958	16250	6400	8170	3390	13240	6040	406	11070	32640	2160	2590	1430	103786
1959	1550	7740	4540	17210	1370	1660	1160	784	332	1490	3960	12620	54416
1960	7880	12230	7330	2630	1210	2820	1840	4270	1910	1150	11990	23810	79070
1961	31670	9130	26430	6210	1410	1800	1390	406	5130	672	2930	31490	118668
1962	8490	3350	3570	10790	6920	765	279	141	1470	318	1030	2010	39133
1963	1270	3030	2530	4580	242	217	209	6.70	44.0	15.0	118	234	12496
1964	970	870	5380	6570	1250	754	23.0	39.0	85.0	14.0	51.0	307	16313
1965	593	3630	2750	2670	12040	950	58.0	16.0	665	50.0	116	3350	26888
1966	3730	15370	2020	14030	6830	282	24.0	1540	159	1010	191	984	46170
1967	1000	4540	1620	1580	1720	7360	106	12.0	9.7	0	4.50	161	18113
1968	8020	2770	5980	23980	11660	4370	3550	700	3060	7800	5460	22010	100160
1969	4460	12680	23810	16490	15990	908	84.0	38.0	112	93.0	137	1570	76372
1970	1630	3130	9560	4010	2870	648	111	25.0	6.80	372	308	240	22911
1971	295	564	369	113	1050	22.0	360	612	4.00	17.0	146	3560	7112
1972	7610	2510	1780	617	1540	400	93.0	37.0	152	1610	1100	7210	24659
1973	16460	5810	15180	19730	2720	15190	2940	751	1760	6650	12510	22310	122011
1974	35940	8170	3140	1950	1410	792	145	159	1240	522	11190	12740	77398
1975	11320	21700	7430	4250	17970	5220	1800	400	360	267	1070	1210	72997
MAX	35940	21700	39110	24620	64990	15190	3550	11070	32640	8360	36660	31490	147923
MIN	242	564	369	113	242	22.0	3.80	3.40	0	0	0	25.0	7112
MEAN	7326	6407	7836	9129	8151	2626	689	1004	2062	1362	3856	6571	57019
NO.	23	23	24	24	24	24	24	24	24	24	24	24	23
DISTR													
OF MEAN	12.6%	11.2%	13.7%	16.0%	14.3%	4.6%	1.2%	1.8%	3.6%	2.4%	6.8%	11.5%	100%

SABINE RIVER BASIN

08024400 Sabine River near Milam, Texas

LOCATION: Lat 31°28'01", long 93°44'41", Sabine County, 104 ft (31.7 m) upstream from the bridge on State Highway 21, 2.8 mi (4.5 km) downstream from Patroon Bayou, 6.5 mi (10.4 km) northeast of Milam, and 7.2 mi (11.6 km) upstream from Palo Gaucho Bayou.

DRAINAGE AREA: 6,508 mi² (16,856.7 km²).

PERIOD OF RECORD: October 1923 to September 1925 (published as "at Sabine Town"), January 1939 to September 1966.

GAGE: Water-stage recorder. Datum of gage is 97.98 ft (29.8 m) above mean sea level, datum of 1929, supplementary adjustment of 1941.

AVERAGE DISCHARGE: 31 years (1923-25, 1939-66), 3,578,963 ac-ft/yr (4,412.9 km³/yr).

EXTREMES: Period of record (1923-25, 1939-66): Maximum discharge, 83,400 ft³/s (2,361.9 m³/s) April 12, 1945 (gage height, 48.87 ft or 14.9 m); minimum, 25 ft³/s (0.7 m³/s) October 14-19, 1958.

Maximum stage since at least 1884, that of April 12, 1945.

REMARKS: Records good. There are numerous diversions above the station for oilfield operations, municipal, and industrial use.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	1020000	613000	949000	481000	536000	773000	19600	11900	13100	131000	176000	897000	-
1925	156000	47900	71000	40200	125000	22000	8740	4430	4460	14800	9940	21400	4462740
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	366300	707500	622900	202000	171000	57530	18810	7180	3650	10260	7180	302500	2476810
1940	143900	660500	105100	315400	275200	379500	180100	71380	90290	16270	572300	1668000	4477940
1941	1217000	495600	802200	319100	814200	816000	600800	66820	79550	159600	763700	452000	6582970
1942	295700	283700	485200	697000	1120000	528100	81080	102200	167700	32970	57180	68250	3919080
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	267400	100800	129900	197000	105200	561200	259800	13110	7340	54350	26630	58120	1780850
1945	474600	474000	847500	759500	2018000	741300	33600	14320	56330	11170	68690	376200	5875210
1946	1321000	540200	1202000	2586000	283900	211000	694700	108900	26840	330400	149300	279900	7734140
1947	1126000	1290000	1041000	555200	727800	1351000	131300	39330	59890	42640	606800	649200	7620160
1948	1019000	400500	672300	661900	383500	96430	55320	11860	36110	14550	74180	357700	3783350
1949	466100	859900	702600	383300	402000	207000	35150	14410	7530	6780	30340	45880	3160990
1950	395900	538700	676600	409200	247200	135400	116400	118200	41560	369000	250200	271800	3570160
1951	1137000	2133000	922400	190800	957400	956800	118100	111400	67880	43340	34960	40630	5713710
1952	130900	283600	350500	222200	118400	111600	58560	9380	15510	8000	16450	90420	1415520
1953	105200	431800	382200	529400	461100	264600	27700	12280	4060	3380	8950	121400	2352070
1954	177000	346100	881500	218400	2288000	574400	87970	57650	34070	8620	20860	149400	4843970
1955	211400	204700	89830	158700	442300	59690	7670	3810	2190	4690	144700	63680	1393360
1956	110300	276800	270600	554300	244600	63260	42280	198700	32160	20040	8020	18270	1839330
1957	29050	267300	106600	199100	359000	17420	7200	3120	2180	1970	12230	7530	1012700
1958	19220	155300	201500	627000	2324000	1039000	105600	22710	14340	228100	813200	572200	6122170
1959	562600	368100	363500	255700	1508000	224800	137500	52680	474000	161200	74860	70690	4253630
1960	58880	295900	319600	463400	436700	154800	55020	76450	23330	141100	95700	345100	2465980
1961	759000	647800	687900	134800	118900	74320	94560	44630	44500	71500	163400	923200	3764510
1962	1225000	669800	866200	673600	80250	217500	245400	52770	226100	42520	132800	1001000	5432940
1963	487200	411900	412500	281200	484600	95850	45980	22780	51350	34220	34720	129100	2491400
1964	113300	95860	98540	94870	240400	36280	20680	11940	7600	4790	8320	23810	755990
1965	49710	50890	234100	228500	121600	40140	5690	9560	6260	10600	6890	26910	790850
1966	53730	246300	272600	325400	353000	511400	31080	9660	29920	12570	8880	69830	1926370
1967	97980	504800	92950	170400	1987000	202100	17710	20460	37460	-	-	-	-
MAX	1321000	1290000	1202000	2586000	2324000	1351000	694700	198700	474000	369000	813200	1668000	7734140
MIN	19220	47900	71000	40200	80250	17420	5690	3120	2180	1970	6890	7530	755990
MEAN	453279	446795	495344	431152	657808	350781	111470	43467	55455	68636	150944	313832	3578963
NO. OF MEAN	30	30	30	30	30	30	30	30	30	29	29	29	28
OF MEAN	12.7%	12.5%	13.8%	12.0%	18.4%	9.8%	3.1%	1.2%	1.5%	1.9%	4.2%	8.8%	100%

SABINE RIVER BASIN

08024500 Palo Gaucho Bayou near Hemphill, Texas

LOCATION: Lat 31°23'10", long 93°50'07", Sabine County, at the bridge on State Highway B7, 0.2 mi (0.3 km) upstream from Boregas Creek, 3.6 mi (5.8 km) north of Hemphill, 4.2 mi (6.8 km) downstream from Sandy Creek, and 13.0 mi (20.9 km) upstream from the Sabine River.

DRAINAGE AREA: 123 mi² (318.6 km²).

PERIOD OF RECORD: April 1952 to September 1965.

GAGE: Wire-weight gage. Datum of gage is 158.88 ft (48.7 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 67,283 ac-ft/yr (83.0 hm³/yr).

EXTREMES: Period of record (1952-65): Maximum discharge, 17,000 ft³/s (481.4 m³/s) April 29, 1963 (gage height, 22.5 ft or 6.8 m); no flow at times.

Maximum stage since at least 1907, 26.6 ft (8.1 m) in July 1933, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	17840	10430	1960	2770	544	15.0	7.50	734	2030	-
1953	9250	18420	18460	33610	76890	1240	1370	548	129	71.0	605	3200	163793
1954	7940	2930	1800	9070	6110	413	32.0	17.0	0	7.10	95.0	272	28886
1955	1290	6760	2600	13730	5960	913	413	725	79.0	43.0	159	1000	33692
1956	1340	8960	3300	3880	994	62.0	2.00	0	0	0	4.80	92.0	18635
1957	758	3290	7980	28680	20420	4670	600	57.0	152	312	29880	8900	105699
1958	24030	9850	9250	5790	7050	728	643	3780	30070	4370	4200	2400	102161
1959	2110	10200	8510	25880	3240	1130	1860	583	154	449	542	6600	61258
1960	8760	18700	8500	2270	1360	3340	959	509	227	999	6650	18740	71014
1961	41150	19350	18930	14660	2550	2060	1990	817	9070	1040	3120	27830	142567
1962	16850	6490	5460	5500	8740	2660	594	57.0	1520	288	1310	7280	56749
1963	5660	6820	4250	2920	451	331	141	41.0	0	0	403	1050	22067
1964	2790	2740	12290	18100	2340	516	19.0	76.0	65.0	12.0	82.0	780	39810
1965	850	6560	6360	3440	1430	646	40.0	0	2490	-	-	-	-
MAX	41150	19350	18930	33610	76890	4670	2770	3780	30070	4370	29880	27830	163793
MIN	758	2740	1800	2270	451	62.0	2.00	0	0	0	4.80	92.0	18635
MEAN	9444	9315	8284	13241	10583	1476	817	554	314	585	3676	6167	67283
NO.	13	13	13	14	14	14	14	14	14	13	13	13	12
DISTR													
OF MEAN	14.0%	13.8%	12.3%	19.7%	15.7%	2.2%	1.2%	.8%	4.7%	.9%	5.5%	9.2%	100%

SABINE RIVER BASIN

08025307 Mill Creek near Burkeville, Texas

LOCATION: Lat 31°09'23", long 93°40'35", Newton County, 500 ft (150 m) downstream from Mitchell Creek, 3.5 mi (5.6 km) east of the bridge on State Highway B7, and 11 mi (18 km) north of Burkeville.

DRAINAGE AREA: 17.6 mi² (45.6 km²).

PERIOD OF RECORD: June 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 166.45 ft (50.734 m) above mean sea level.

EXTREMES: Period of record (1974-75): Maximum discharge, 1,010 ft³/s (28.6 m³/s) Oct. 28, 1974 (gage height, 17.46 ft or 5.322 m); minimum 4.5 ft³/s (0.13 m³/s) July 30, 1974.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	626	512	607	791	1330	1740	3430	-
1975	2820	3090	2950	1990	4660	2780	2330	1220	1390	1690	956	1330	27206
MAX	2820	3090	2950	1990	4660	2780	2330	1220	1390	1690	1740	3430	27206
MIN	2820	3090	2950	1990	4660	626	512	607	791	1330	956	1330	27206
MEAN	2820	3090	2950	1990	4660	1703	1421	914	1091	1510	1348	2380	25877
NO.	1	1	1	1	1	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	10.9%	11.9%	11.4%	7.7%	18.0%	6.6%	5.5%	3.5%	4.2%	5.8%	5.2%	9.2%	100%

SABINE RIVER BASIN

08025350 Toledo Bend Reservoir near Burkeville, Texas

LOCATION: Lat 31°10'25", long 93°33'57", Newton County, in the powerhouse at the right end of Toledo Bend Dam, and 15 mi (24 km) northeast of Burkeville.

DRAINAGE AREA: 7,178 mi² (18,591 km²).

PERIOD OF RECORD: October 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to July 20, 1967, nonrecording gage at same site and datum. July 20, 1967 to June 30, 1973, recording gage at the south end of the spillway, 1.6 mi (2.6 km) north of the present site and at the same datum.

EXTREMES: Period of record (1966-75): Maximum contents, 4,739,000 ac-ft (5,843.2 km³) Mar. 21, 1969 (elevation, 173.42 ft or 52.858 m); minimum contents since the initial filling of the reservoir in June 1968, 3,517,000 ac-ft (4,336.5 km³) Oct. 22, 1972 (elevation, 166.29 ft or 50.685 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 11,243 ft (3,427 m) long, including dikes, with a capacity of 4,660,000 ac-ft (5,745.8 km³). Closure of the embankment was completed and deliberate impoundment was begun on Oct. 3, 1966. The reservoir is operated for hydro-electric power generation and water conservation. A gate controlled, gravity concrete, ogee weir is located near the left abutment of the dam. Net opening of 440 ft (134 m) is controlled by eleven 40- by 28-foot (12- by 9-m) tainter gates. A low-flow release sluiceway is located in an enlarged gate pier near the center of the spillway structure. This sluiceway is a single 8.33- by 12-foot (2.54- by 4-m) concrete conduit controlled by a single gate. Two 20-inch diameter (508-millimeter) conduits are provided which bypass the sluice gate. Water for the turbines is admitted through four 16.75- by 29-foot (5.11- by 9-m) penstocks and controlled by vertically operated caterpillar-type gates. The dam is operated by the Sabine River Authorities of Texas and Louisiana.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1966	-	-	-	-	-	-	-	-	-	31150	56140	40500
1967	44550	77630	84250	217000	433400	745100	778700	769700	761800	770800	927300	1073000
1968	1646000	1939000	2472000	3978000	4629000	4564000	4549000	4447000	4492000	4436000	4605000	4472000
1969	4319000	4629000	4555000	4402000	4449000	4306000	4177000	3928000	3714000	3676000	3710000	3839000
1970	4018000	4154000	4413000	4275000	4333000	4368000	4192000	4101000	3932000	4042000	4162000	4162000
1971	4057000	4080000	4078000	4085000	4133000	4007000	3970000	3970000	3912000	3912000	4026000	4175000
1972	4234000	4138000	4381000	4366000	4255000	4135000	4143000	3846000	3573000	3637000	3934000	4257000
1973	4329000	4384000	4573000	4609000	4426000	4581000	4357000	4147000	4039000	4350000	4435000	4597000
1974	4594000	4462000	4408000	4474000	4411000	4415000	4113000	3805000	3818000	4021000	4540000	4577000
1975	4306000	4485000	4245000	4262000	4572000	4531000	4378000	4055000	3753000	3801000	3838000	3887000
MAX	4594000	4629000	4573000	4609000	4629000	4581000	4549000	4447000	4492000	4436000	4605000	4597000
MIN	44550	77630	84250	217000	433400	745100	778700	769700	761800	31150	56140	40500
MEAN	3505283	3592070	3689917	3852000	3960156	3961344	3850856	3674300	3554978	3267695	3423344	3507950
NO.	9	9	9	9	9	9	9	9	9	10	10	10
DISTR												
OF MEAN	8.0%	8.2%	8.4%	8.8%	9.0%	9.0%	8.8%	8.4%	8.1%	7.5%	7.8%	8.0%

SABINE RIVER BASIN

08025360 Sabine River at Toledo Bend Reservoir near Burkeville, Texas

LOCATION: Lat 31°10'25", long 93°33'57", Newton County, in the powerhouse at the right end of Toledo Bend Dam, and 10 mi (16 km) upstream from the Sabine River near Burkeville gage (station 08026000).

DRAINAGE AREA: 7,178 mi² (18,591 km²).

PERIOD OF RECORD: October 1971 to December 1975.

GAGE: Water-stage recorders. Datum of gages is at mean sea level.

AVERAGE DISCHARGE: 5 years, 5,363,498 ac-ft/yr (6,613.2 hm³/yr).

EXTREMES: Period of record (1971-75): Maximum daily discharge, 87,000 ft³/s (1,800 m³/s) Jan. 28, 1974; minimum daily, 30 ft³/s (0.85 m³/s) October 1-4, 1972.

REMARKS: The discharges above 16,000 ft³/s (453 m³/s) are the result of tainter gate operations and are based on the tainter gate rating. The discharges below 16,000 ft³/s (453 m³/s) are based upon scroll case differential pressure-discharge relationships during turbine release periods. Estimates of the turbine leakage made during non-turbine release periods, and the low-flow sluiceway discharge is based on discharge measurements.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	-	26460	24830	495600	-
1972	786900	319300	14180	61750	228000	144800	120000	280100	270600	19820	7780	201300	2454530
1973	701400	449100	802100	1033000	1020000	663900	479500	229000	299600	85230	390800	932600	7086230
1974	1702000	876100	371200	309600	429800	265500	300000	284900	243300	10160	275900	1089000	6157460
1975	993700	1139000	890800	542600	965900	508100	319500	283600	268600	3630	3010	4580	5923020
*MAX	1702000	1139000	890800	1033000	1020000	663900	479500	284900	299600	85230	390800	1089000	7086230
MIN	701400	319300	14180	61750	228000	144800	120000	229000	243300	3630	3010	4580	2454530
MEAN	1046000	695875	519570	486738	660925	395575	304750	269400	270525	29060	140464	544616	5363498
NO.	4	4	4	4	4	4	4	4	4	5	5	5	4
DISTR													
OF MEAN	19.5%	13.0%	9.7%	9.1%	12.3%	7.4%	5.7%	5.0%	5.0%	.5%	2.6%	10.2%	100%

SABINE RIVER BASIN

08026000 Sabine River near Burkeville, Texas

LOCATION: Lat 31°03'50", long 93°31'10". Newton County, Texas-Vernon Parish, Louisiana State line, at the bridge on State Highway 63, 200 ft (61 m) downstream from Pearl Creek, 10 mi (16 km) northeast of Burkeville, and 16 mi (26 km) downstream from Bayou Toro.

DRAINAGE AREA: 7,482 mi² (19,378 km²).

PERIOD OF RECORD: September 1955 to December 1975. Published as "below Toledo Bend near Burkeville" for 1955-75.

GAGE: Water-stage recorder. Datum of gage is 70.58 ft (21.516 m) above mean sea level, datum of 1928. Prior to Aug. 23, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 21 years, 3,586,999 ac-ft/yr (4,422.8 hm³/yr).

EXTREMES: Period of record (1955-75): Maximum discharge, 60,600 ft³/s (4,280 m³/s) Jan. 29, 1974 (gage height, 34.20 ft or 10.424 m); minimum daily, 38 ft³/s (1.08 m³/s) Sept. 14, 15, 1967.

Maximum stage since at least 1860, 35.9 ft (10.94 m) in May 1884, from information by a local resident. Flood of Apr. 16, 1945 reached a stage of 35.8 ft (10.91 m).

REMARKS: Records fair. The flow is regulated since 1966 by Toledo Bend Reservoir (station 08025350) located 16.8 mi (27.0 km) upstream (capacity, 4,660,000 ac-ft or 5,745.8 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	-	-	-	-	-	-	-	-	44230	29480	14570	30000	-
1956	46840	352000	136500	229500	390800	25930	12910	6160	4710	4480	17170	21370	1248370
1957	27340	195700	267100	683000	2293000	1005000	159700	29250	22920	227500	927900	704100	6542510
1958	672900	443400	406000	332500	1736000	286700	165700	115700	568600	286000	105900	96480	5217800
1959	62310	371600	362900	536100	456600	178800	85920	88830	29610	145200	100200	344100	2702370
1960	775100	729400	792100	160400	128800	95090	113200	52820	47070	89370	195300	943200	4121850
1961	1495000	826900	1037000	781200	102700	219000	298200	83000	394700	61470	147800	1106000	6552970
1962	559800	450600	452200	302800	554400	114600	61410	30200	57190	38490	40620	159500	2821810
1963	148900	134300	138000	104700	235900	36550	25100	19430	10160	6710	11290	33750	904790
1964	73200	73610	295200	318100	158900	49950	10200	13390	9300	12720	9530	46160	1070260
1965	61580	251700	303200	359900	339500	529700	46540	14890	31650	20280	16110	136300	2111350
1966	146800	776400	143500	176600	1972000	303000	27610	29570	44420	10600	5330	59910	3695740
1967	67620	63800	62160	41180	28940	28770	17980	5640	4620	5080	5130	15180	346100
1968	29770	15320	29830	107500	345600	654300	240100	134300	238800	120800	84610	830100	2831030
1969	351900	324400	1364000	1578000	1122000	412900	129600	167400	162800	19930	49420	30320	5712670
1970	52780	105700	529200	499600	319200	23790	152200	58230	131500	36310	30650	93770	2032930
1971	152300	94590	84610	13750	49150	89640	55150	42520	26720	28300	30390	503900	1171020
1972	823200	335400	55990	73750	239600	146000	133600	289000	278800	33650	27370	243700	2680060
1973	741900	493900	842400	1163000	1141000	704200	494700	258600	325200	108400	400900	959500	7633700
1974	1753000	928500	367100	376500	448100	290700	293400	293300	241500	26330	278700	1103000	6400130
1975	1031000	1192000	967600	578200	1079000	576600	366700	302400	263300	34180	13070	19870	6423920
MAX	1753000	1192000	1364000	1578000	2293000	1005000	494700	302400	568600	286000	927900	1106000	7633700
MIN	27340	15320	29830	13750	28940	23790	10200	5640	4620	4480	5130	15180	346100
MEAN	454662	407961	431830	420814	657170	288561	144496	101732	139895	64061	119617	356200	3586999
NO.	20	20	20	20	20	20	20	20	21	21	21	21	20
DISTR													
OF MEAN	12.7%	11.4%	12.0%	11.7%	18.3%	8.0%	4.0%	2.8%	3.9%	1.8%	3.3%	9.9%	100%

SABINE RIVER BASIN

08028500 Sabine River near Bon Weir, Texas

LOCATION: Lat 30°44'48", long 93°36'30", Beauregard Parish, Louisiana-Newton County, Texas State line, at the bridge on U.S. Highway 190, 0.7 mi (1.1 km) upstream from Quicksand Creek, 0.8 mi (1.3 km) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 mi (3.2 km) east of Bon Weir, and 2.4 mi (3.9 km) upstream from Caney Creek.

DRAINAGE AREA: 8,228 mi² (21,313 km²).

PERIOD OF RECORD: October 1923 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 46.42 ft (14.149 m) above mean sea level, datum of 1929. Prior to July 8, 1931, nonrecording gage at site 0.8 mi (1.3 km) downstream at same datum, July 8, 1931 to Oct. 15, 1958, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 63 years, 4,897,934 ac-ft/yr (6,039.2 hm³/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 115,000 ft³/s (3,260 m³/s) May 19, 1953 (gage height, 25.70 ft or 7.833 m); minimum daily, 134 ft³/s (3.79 m³/s) Nov. 9, 1968.

Maximum stage since at least 1833, 30.5 ft (9.30 m) Apr. 23 or 24, 1913, from information by the Gulf, Colorado, and Santa Fe Railway Co. and local residents.

REMARKS: Records fair. The flow is regulated since 1968 by Toledo Bend Reservoir (station 08025350) located 58.8 mi (94.6 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	177000	295200	1384000	-
1924	1307000	807800	1277000	624000	705300	943400	690600	53570	40810	40600	32100	50400	5951040
1925	274000	127000	126000	73500	141000	46300	31000	15300	18200	175800	941100	257300	2226500
1926	710300	343200	878300	1182000	813400	226300	204700	197800	40120	34100	67090	438500	5135810
1927	821800	654200	1165000	1302000	861300	298500	197100	109900	24470	140000	66600	168000	5808870
1928	141000	174000	577000	625000	379000	328000	176000	106000	27300	34700	91600	279000	2938600
1929	738000	639000	992400	405000	851200	987900	119000	57400	51200	31100	328000	387000	5567200
1930	652000	833000	489000	211000	533000	845000	56600	28900	35800	124000	102000	695000	4605300
1931	793000	541000	595000	276000	444000	63100	35900	32900	31800	21200	44400	781000	3659300
1932	2070000	2300000	1730000	417000	171000	60700	51800	27600	22800	21000	24300	282000	7178200
1933	652000	811000	953000	845000	518000	228000	664000	1230000	102000	60400	55000	129000	6247400
1934	1090000	778000	1360000	1120000	245000	67200	39700	23900	21200	24620	127900	465300	5362820
1935	665300	631400	654900	492000	1813000	908000	370600	87450	82870	65210	195900	588700	6555330
1936	168300	212900	185500	75630	204500	62230	197600	27530	23900	94940	47470	195200	1495700
1937	1059000	593300	633300	540300	196100	90290	42560	36660	51850	73010	92870	287200	3698440
1938	999300	946500	695100	1593000	750100	114900	101500	101100	35560	25950	74290	82310	5519610
1939	673300	895300	889600	379600	233700	115700	43710	33070	16130	30810	29480	348600	3689000
1940	351300	885500	195600	461400	431000	505600	276700	413900	138200	42800	511000	2324600	6537600
1941	1657000	664300	1141000	521000	1064000	1108000	854000	140400	146800	236600	964600	584200	9081900
1942	446100	457800	740400	949300	1236000	699100	192100	117300	256100	66780	89080	138600	5388660
1943	380800	166000	206300	277900	144100	392200	367500	37880	28650	65080	63070	84500	2213960
1944	597200	585400	923100	100400	2382000	1168000	77610	43130	125400	38630	93320	474300	7512090
1945	1618000	960400	1279000	2864000	642800	233000	832700	210800	67810	447700	200100	389900	9743510
1946	1441000	1816000	1384000	798300	954600	1582000	370700	113700	94520	99530	745500	967900	10369750
1947	1654000	584300	985500	798600	510900	197000	99560	35120	47780	32720	153600	558500	5657580
1948	624100	1040000	851500	617700	451500	274800	60560	32250	25470	22010	183800	108600	4292290
1949	641200	820400	932200	787400	434000	237200	168700	167300	68710	431200	302600	522600	5513510
1950	1506000	1530000	1454000	301500	1146000	1729000	205200	152900	97900	79850	73810	75810	8351970
1951	366800	361000	470600	431000	273700	134000	110300	29700	50370	26850	33060	124600	2411980
1952	131800	568200	482200	798600	644600	341100	127800	38950	20500	16700	29620	184800	3384870
1953	252700	491700	1146000	351100	3747000	964400	173600	132600	66040	33580	44210	230600	7633550
1954	282100	252300	140900	258500	676000	114000	27550	19880	13450	16160	145600	79210	2025650
1955	146600	420700	290500	728900	291300	124700	99110	463200	90310	46230	28420	57990	2787960
1956	99920	441300	211800	253800	366700	41250	22460	12830	11460	11810	30900	89530	1593760
1957	61590	229800	398800	745500	2312000	1108000	247200	55550	45110	240500	1088000	829900	7361450
1958	776300	540700	522300	425600	1587000	348600	210400	147100	610500	410200	125200	119100	5823000
1959	113700	505700	421400	626600	513500	208400	106400	115500	42470	147800	111300	376800	3289570
1960	832300	850400	854200	219500	162300	126000	135800	67780	58320	109500	231000	939700	4586600
1961	1616000	960900	1142000	878200	154600	240500	377400	129000	484000	87640	243200	1213000	7526440
1962	660500	518800	515800	338600	597700	165900	83070	52450	79770	53260	57470	190100	3313420
1963	211200	181700	193500	133900	252200	60440	56210	32280	20280	14380	30250	70140	1256480
1964	124400	111400	394300	386700	223100	70130	32600	24120	18320	21290	23420	83900	1513680
1965	87620	285100	355000	429300	331300	522300	76650	24620	42710	30420	30240	179100	2394360
1966	210600	1113000	192600	192700	1919000	360300	55890	48410	52310	27290	28770	86650	4267520
1967	123400	104900	109500	151600	83120	70120	38160	12980	12270	11590	12890	54290	764820
1968	110400	42930	80140	227100	355600	706900	257100	154800	260400	139000	109500	891800	3337670
1969	431600	396300	1401000	1628000	1220000	450300	158100	180900	169300	36260	67840	71920	6211320
1970	103300	148600	510000	527800	361000	39480	161200	72070	152800	98820	57560	111000	2343630
1971	205700	144000	163600	37720	72920	101300	79320	69610	36100	47620	39180	604200	1601270
1972	1008000	415600	165600	104200	263900	192400	170700	319700	308100	59690	67050	377700	3452640

SABINE RIVER BASIN

08028500 Sabine River near Bon Weir, Texas—continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	848800	686600	1044000	1421000	1327000	840100	596700	284300	379000	171100	434200	1037000	9069800
1974	1902000	1204000	461800	463000	509600	317700	318700	348500	294200	56130	339900	1231000	7466530
1975	1235000	1288000	1129000	694900	1324000	722400	481200	391700	279900	100300	38980	60180	7745560
MAX	2070000	2300000	1730000	2864000	3747000	1729000	854000	1230000	610500	447700	1088000	2324600	10369750
MIN	61590	42930	80190	37720	72920	39480	22460	12830	11460	11590	12890	50400	784820
MEAN	666026	635795	694428	615307	727416	420797	194419	132006	102372	89650	178176	421542	4897934
NO.	52	52	52	52	52	52	52	52	52	53	53	53	52
DISTR OF MEAN	14.0%	13.0%	14.2%	12.6%	14.9%	8.6%	4.0%	2.7%	2.1%	1.8%	3.6%	0.6%	100%

SABINE RIVER BASIN

08029500 Big Cow Creek near Newton, Texas

LOCATION: Lat 30°49'08", long 93°47'07", Newton County, at the bridge on State Highway 87, 2.6 mi (4.2 km) southwest of Newton, 5.0 mi (8.0 km) downstream from Millhomes Creek, and 8.0 mi (12.9 km) upstream from White Oak Creek.

DRAINAGE AREA: 128 mi² (332 km²).

PERIOD OF RECORD: May 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 134.68 ft (41.054 m) above mean sea level, datum of 1929. Prior to Dec. 19, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 24 years, 79,520 ac-ft/yr (98.0 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 20,200 ft³/s (572 m³/s) Apr. 29, 1953 (gage height, 19.45 ft or 5.928 m); minimum daily, 10 ft³/s (0.28 m³/s) July 7, 8, 21-23, 1971.

Maximum stage since at least 1907, 27.5 ft (8.38 m) in April 1922, from information by a local resident.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	10920	3640	5100	2110	1520	1620	3350	9600	-
1953	5380	16480	8950	31710	50260	7130	9500	4810	3150	2990	4210	6850	151420
1954	5910	3550	3680	5600	17090	2800	1980	1940	1510	2460	3450	3000	52970
1955	5830	17960	3530	14810	2900	2100	2630	7080	2550	1630	2310	2700	66030
1956	5380	10140	6540	4290	2060	2790	1260	889	1030	1070	2190	4880	42519
1957	2910	4000	14200	10090	6290	4620	2810	1390	2190	3410	17500	9480	78890
1958	15160	8370	7010	6560	3680	2900	2750	2000	8220	3050	2880	2630	65210
1959	3560	13080	4320	11640	3670	2590	7020	3590	1900	2230	2040	7130	62770
1960	7440	12440	5540	3600	2440	2790	2560	2050	1590	5230	4600	13320	63600
1961	27370	15610	13810	5310	4370	5210	6910	4030	21020	4270	9670	14990	132570
1962	9380	5430	5730	5530	6250	8980	3310	2240	2950	2430	3960	6130	62320
1963	4780	6410	4810	2860	3130	1910	3000	1620	3270	1610	9000	10450	52850
1964	9290	7460	12810	9950	6290	2240	1750	1700	1580	1420	2390	4670	61550
1965	3150	5100	5320	2920	3190	1320	1080	1150	1660	1250	2450	7400	35990
1966	9130	37440	4800	4350	3270	1650	1860	2500	2190	5080	3460	4210	79940
1967	4830	6100	4320	8510	3570	5670	1840	1490	1330	1400	1620	3920	44600
1968	5640	3370	6420	21780	5670	9020	2970	2430	2260	2210	4320	6780	72790
1969	3910	10380	11870	6760	15150	4470	2250	1620	1350	1490	2260	5600	67190
1970	3660	3750	5460	5420	6860	1820	1530	1500	1810	7220	3630	2830	45490
1971	3050	3850	4970	1750	1950	988	875	1460	1250	1910	1710	12510	36273
1972	13250	4270	8800	3190	5430	1380	2260	2390	1750	4970	8080	14880	70650
1973	13480	14270	19970	25430	21760	16160	12240	13610	13450	14920	14230	17090	196610
1974	39640	11470	10600	20580	7240	4650	4070	4010	5410	5590	11980	18260	143420
1975	14920	12080	14710	11620	19550	20880	9250	10030	5640	12630	6370	9750	147430
MAX	39640	37440	19970	31710	50260	20880	12240	13610	21020	14920	17500	18260	196610
MIN	2910	3370	3530	1750	1950	988	875	889	1030	1070	1620	2630	35990
MEAN	9437	10131	8181	9747	8875	4905	3784	3235	3774	3837	5316	8298	79520
NO.	23	23	23	23	24	24	24	24	24	24	24	24	23
DISTR													
OF MEAN	11.9%	12.7%	10.3%	12.3%	11.2%	6.2%	4.8%	4.1%	4.7%	4.8%	6.7%	10.4%	100%

SABINE RIVER BASIN

08030000 Cypress Creek near Buna, Texas

LOCATION: Lat 30°25'52", long 93°54'28", Jasper County, at the bridge on Farm Road 253, 0.3 mi (0.5 km) downstream from Boggy Creek, 3.2 mi (5.1 km) east of Buna, and 9.5 mi (15.3 km) upstream from Little Cypress Creek.

DRAINAGE AREA: 69.2 mi² (179.2 km²).

PERIOD OF RECORD: April 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 46.16 ft (14.070 m) above mean sea level, datum of 1929. Prior to Oct. 23, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 24 years, 50,351 ac-ft/yr (62.1 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 7,100 ft³/s (201 m³/s) Sept. 18, 1963 (gage height, 13.28 ft or 4.048 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	18980	18710	227	424	80	0	0	0	258	-
1953	727	12500	2060	6850	25930	512	104	447	400	12.0	9.1	3950	53501
1954	4370	549	486	8970	18840	41.0	2.60	13.0	0	0	38.0	31.0	33341
1955	4800	20820	338	18660	31.0	4.00	187	6650	587	2.00	50.0	1650	53779
1956	5120	14940	4460	452	101	453	0	0	0	0	35.0	4720	30281
1957	313	1020	17690	6590	6680	8250	1210	26.0	7280	2220	26210	7290	84779
1958	10070	10310	1660	4570	1010	24.0	0	0	15890	1040	824	993	46391
1959	5930	27330	1810	13180	671	220	11720	2950	197	346	187	13950	78491
1960	12160	13470	2130	678	239	1110	80.0	2150	333	4200	9070	20950	66570
1961	34310	18560	6070	1690	205	1430	2070	81.0	6370	7.90	6630	15550	92974
1962	9870	2600	812	1140	491	7030	123	0	0	0	20.0	556	22642
1963	1820	4490	1030	58.0	0	0	372	3.40	19770	52.0	7790	11310	46695
1964	12230	5020	16070	4410	2230	439	55.0	39.0	622	59.0	129	4210	44513
1965	1890	5070	10030	3000	20.0	2.60	3.40	42.0	141	10.0	22.0	5030	25261
1966	11490	17520	1040	2170	3500	162	2.00	9.1	52.0	68.0	1340	853	38206
1967	2470	2530	382	10110	179	272	18.0	17.0	16.0	7.00	23.0	878	16902
1968	5690	1270	1870	7950	2540	16910	158	91.0	250	41.0	1690	5190	43650
1969	1710	11760	12080	7430	8280	585	268	.10	0	7.10	9.3	996	43125
1970	757	1230	2070	2670	5230	461	3.20	.90	84.0	20010	1430	500	34446
1971	1450	1510	2500	19.0	9.7	.06	0	58.0	23.0	733	871	17090	24264
1972	16640	3920	8440	123	1750	5.00	34.0	57.0	209	577	2490	6950	41195
1973	12680	14980	14500	18740	13950	5860	1050	1720	8640	10540	4730	6730	114120
1974	28980	3070	1290	3510	966	2.80	0	0	0	0	2880	12230	52929
1975	11580	3660	5650	4660	15340	9550	1710	1670	75.0	2740	514	2530	59679
MAX	34310	27330	17690	18980	25930	16910	11720	6650	19770	20010	26210	20950	114120
MIN	313	549	338	19.0	0	0	0	0	0	0	0	31.0	16902
MEAN	8524	8614	4974	6109	5288	2231	816	668	2539	1778	2791	6016	50351
NG.	23	23	23	24	24	24	24	24	24	24	24	24	23
DISTR OF MEAN	16.9%	17.1%	9.9%	12.1%	10.5%	4.4%	1.6%	1.3%	5.0%	3.5%	5.5%	11.9%	100%

SABINE RIVER BASIN

08030500 Sabine River near Ruliff, Texas

LOCATION: Lat 30°18'13", long 93°44'37", Calcasieu Parish, Louisiana-Newton County, Texas State line, at the bridge on Texas State Highway 12, 2.4 mi (3.9 km) north of Ruliff, 4.2 mi (6.8 km) upstream from the Kansas City-Southern Railway Co. bridge, and 4.5 mi (7.2 km) downstream from Cypress Creek.

DRAINAGE AREA: 9,329 mi² (24,162 km²).

PERIOD OF RECORD: October 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 4.08 ft (1.244 m) above mean sea level, datum of 1929. Prior to Mar. 1, 1941, nonrecording gage at the Kansas City-Southern Railway Co. bridge, 4.2 mi (6.8 km) downstream and at datum 2.02 ft (0.816 m) lower. Mar. 1, 1941 to Dec. 8, 1948, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 52 years, 5,961,919 ac-ft/yr (7,351.0 hm³/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 121,000 ft³/s (3,430 m³/s) May 22, 1963 (gage height, 19.98 ft or 6.090 m); minimum, 270 ft³/s (7.65 m³/s) Sept. 27-30 and Oct. 1-3, 17-20, 1956.

Maximum stage since at least 1835, 22.2 ft (6.77 m) in May or June 1884 (adjusted to present site and datum on the basis of the slope of the flood of June 8, 9, 1850).

REMARKS: Records fair. The flow is partly regulated since 1986 by Toledo Bend Reservoir [station 08025350] located 118.3 mi (187.1 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	-	-	59700	43600	68400	-
1925	435000	157000	127000	81700	133000	65700	45800	27200	30800	194800	1466000	355800	3119800
1926	844500	450400	1011000	1642000	955400	286600	234200	243000	78350	58330	84280	333900	6221960
1927	1299000	772900	1305000	1302000	1060000	319700	272300	151900	54280	135800	84060	223600	6890540
1928	266200	188300	622300	741800	432900	351200	215700	136500	44050	37590	95180	255100	3386820
1929	809500	725600	1091000	553600	871500	1199000	148000	60590	58040	42900	362000	390000	6311730
1930	892000	1050000	606000	291000	483000	893000	73800	44100	54300	151000	133000	787000	5458200
1931	1020000	644000	836000	383000	535000	90400	62700	50700	49900	34200	59500	812000	4577400
1932	2340000	2560000	2180000	459000	217000	101000	77500	44000	29300	29200	30600	304000	8371600
1933	762000	1010000	1210000	869000	541000	300000	521000	1670000	126000	73200	60100	137000	7329300
1934	1210000	1170000	1650000	1360000	379000	104000	60400	35400	28100	41820	141600	519300	6699620
1935	802400	815300	817900	477000	201600	1062000	385200	114500	103800	79740	244800	829200	5933440
1936	246100	306200	201600	96950	217100	129600	242100	51220	41970	95680	71930	258400	1958850
1937	1171000	866800	636700	715400	216700	138400	60220	47680	81050	123700	121000	270500	4449150
1938	1205000	1092000	824100	1831000	798600	153300	146100	187100	67830	43850	110100	122600	6581580
1939	904400	939000	1119000	449400	261000	155400	59470	52540	24620	34270	47970	173200	4220270
1940	573900	1015000	259500	448300	558500	525700	350000	833800	177800	70140	625000	2911000	8348640
1941	1991000	763200	1340000	635400	1154000	1366000	1162000	213800	226200	269100	1085000	654200	10859900
1942	588400	536100	934000	1145000	1266000	873300	334400	200800	373400	101500	119700	173100	6645700
1943	513200	237000	286800	363400	184200	344600	569100	103700	63350	85700	98880	149800	2999730
1944	833500	808500	1142000	1268000	2855000	1505000	140900	80990	182600	77570	145000	664700	9703760
1945	2082000	1331000	1394000	3364000	925200	292800	856000	331700	115800	512400	299000	610500	12114400
1946	1779000	2233000	1766000	987800	998900	1964000	769100	179100	143600	142400	786100	1306000	13054200
1947	2198000	804400	1212000	937200	590900	309800	126500	50430	66630	52000	180400	754500	7282760
1948	824900	1266000	1074000	798600	445800	385600	89610	42880	33750	28110	259600	176100	5424950
1949	747300	1129000	1220000	1203000	629900	296900	232800	235900	93400	500200	403900	749800	7442100
1950	1564000	1841000	1752000	386500	1319000	2390000	305700	197300	131700	111200	103300	110700	10212400
1951	456200	413900	536400	651900	348900	151000	151800	46680	84790	56920	59670	190200	3148360
1952	167100	735700	646400	1006000	973900	512500	205900	74300	28820	23250	38840	240000	4652710
1953	342000	615700	1327000	456200	4060000	1226000	262200	221900	117000	61130	69160	305300	9063590
1954	374000	319700	192500	361700	963100	218500	48590	31620	20720	24080	167900	102800	2825210
1955	211100	670300	351000	950200	389000	217800	139000	626700	185900	80430	57000	120900	3999330
1956	186900	726500	347500	341900	448700	89790	42260	22630	19400	17510	42980	227200	2513000
1957	100700	274200	677600	893600	2478000	1387000	656900	95190	132200	301200	1386000	1129000	9511590
1958	930000	764800	640800	571700	1485000	522000	275000	163300	733900	681400	182300	185200	7135400
1959	175100	932200	576900	677900	657600	270800	239800	206600	81360	177700	158700	457000	4611660
1960	949300	953900	1052000	291000	208700	134400	195400	94450	78680	129000	289800	1034000	5410630
1961	2187000	1221000	1262000	1042000	208100	253100	539300	204300	614200	135700	312900	1279000	9258600
1962	872900	628000	577700	345200	663200	292100	129100	82750	110300	81240	80890	208200	4071580
1963	326300	257900	261000	162000	270800	82270	91080	45630	182200	28290	78790	172500	1938760
1964	242000	185100	597400	431100	387600	111700	53350	39480	31890	30960	34250	166000	2310830
1965	147800	361800	495100	550200	332500	637400	113700	37100	48820	44790	41340	254100	3063850
1966	337200	1380000	316800	222400	202800	614000	80180	74020	75260	62540	72200	113100	3550600
1967	182000	166500	161600	333100	125700	109100	49510	23480	19810	17940	19480	104300	1312520
1968	260800	89670	155700	377000	381600	1023000	343400	201600	336100	165500	129100	1076000	4539470
1969	665200	494200	1690000	1978000	1476000	633500	206300	217700	191000	49470	87430	108400	7797200
1970	139700	191400	600500	762900	493200	84950	122000	164100	187500	335200	168300	132200	3381950
1971	2710000	184700	328100	61320	92150	119700	92800	85100	36940	63220	58400	87170	2264920
1972	1258000	606300	282500	147100	319100	191800	208000	343400	344000	119400	146900	468300	4434800
1973	1071000	998100	1123000	1606000	1428000	907700	799100	385100	626400	410600	519200	1078000	10952200

SABINE RIVER BASIN

08030500 Sabine River near Ruliff, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	2017000	1555000	641900	566400	565300	356900	349900	358600	340800	77240	374700	1264000	8467740
1975	1456000	1312000	1260000	897200	1323000	919600	573200	490800	335500	165600	91520	121900	8946320
MAX	2340000	2560000	2180000	3364000	4060000	2390000	1182000	1670000	733900	681400	1466000	2911000	13054280
MIN	100700	89670	127000	61320	92150	65700	42260	22360	19400	17510	19480	68400	1312520
MEAN	845820	799025	837633	754378	755140	522934	264885	190649	145963	125508	229411	490573	5961919
NO.	51	53	51	51	51	51	51	51	51	52	52	52	51
DISTR OF MEAN	14.2%	13.4%	14.0%	12.7%	12.7%	8.8%	4.4%	3.2%	2.4%	2.1%	3.8%	8.2%	100%

SABINE RIVER BASIN
08031000 Cow Bayou near Mauriceville, Texas

LOCATION: Lat 30°11'10", long 93°54'30", Orange County, at the bridge on State Highway 12, 0.4 mi (0.6 km) upstream from the Kansas City-Southern Railway Co. bridge, and 2.7 mi (4.3 km) southwest of Mauriceville.

DRAINAGE AREA: 83.3 mi² (215.7 km²).

PERIOD OF RECORD: April 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 4.73 ft (1.442 m) above mean sea level, datum of 1929. Prior to Oct. 23, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 24 years, 70,755 ac-ft/yr (87.2 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 4,800 ft³/s (130 m³/s) Sept. 19, 1963 (gage height, 18.15 ft or 5.532 m); no flow at times.

Maximum stage since at least 1940, 18.16 ft (5.535 m) Oct. 28, 1970.

REMARKS: Records fair. No diversion above station. The base flow is partly sustained by springs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	31590	7630	342	5600	20.0	3.20	6.20	13.0	5.98	-
1953	704	10780	3880	5980	32950	153	155	360	1300	6.10	6.70	2230	58505
1954	4170	312	184	6360	10050	215	9.7	3.20	0	17.0	78.0	8.70	21408
1955	4730	16260	746	15120	1970	208	34.0	1660	3520	6.10	0	2390	46644
1956	3910	16320	2510	285	1080	32.0	0	1.20	2.20	0	6.30	16020	40167
1957	386	292	22960	12970	10940	6030	9060	20.0	7020	9460	22320	9640	111098
1958	16620	12830	4920	12280	4440	458	136	79.0	39680	2230	15.0	349	94037
1959	2550	53350	4980	21800	1120	70.0	19670	5490	797	440	114	8830	119211
1960	11190	17060	2540	531	1390	5.20	36.0	3250	915	5230	12180	15130	69781
1961	54040	30140	7400	2710	39.0	8610	9880	700	5350	14.0	7150	14110	140143
1962	6100	2140	936	1540	1700	3780	83.0	27.0	122	54.0	374	5510	22366
1963	4920	7130	877	15.0	17.0	14.0	792	28.0	48560	262	4650	11960	79225
1964	10540	6630	13820	1400	3720	3480	14.0	18.0	2350	1050	348	7850	51220
1965	1900	3150	6870	1260	41.0	5.20	11.0	5.20	88.0	2.00	3.40	3160	16496
1966	10120	18170	3380	6690	11850	175	79.0	1190	37.0	519	792	641	53843
1967	2010	5820	341	20100	565	2150	14.0	14.0	3.90	3.00	4.80	1100	32126
1968	16440	1580	5260	19080	10000	31630	3580	195	5830	114	585	10160	104454
1969	5390	19970	14170	12450	15610	423	712	16.0	13.0	2.90	7.00	284	69048
1970	349	485	2150	3030	1620	601	3.20	8.50	149	31070	9810	207	49483
1971	1450	7320	5070	27.0	2730	77.0	17.0	273	516	466	57.0	21510	39513
1972	16570	9270	11250	448	4630	337	970	199	350	541	6170	10880	61815
1973	21420	13730	22370	21610	19250	9200	1850	2360	17390	17790	7440	6150	160580
1974	33240	6640	4030	2290	254	159	38.0	159	81.0	14.0	3130	9020	59055
1975	21300	4260	3500	12680	15490	29310	6470	10560	5970	3800	3760	6650	123670
MAX	54040	53350	22960	31590	32950	31630	12670	10560	48560	31070	22320	21510	160580
MIN	349	292	184	15.0	17.0	5.20	0	1.20	0	0	0	8.70	16496
MEAN	10872	11463	6267	8849	6629	4061	2481	1111	5835	3046	3292	6849	70755
NO.	23	23	23	24	24	24	24	24	24	24	24	24	23
DISTR													
OF MEAN	15.4%	16.2%	8.9%	12.5%	9.4%	5.7%	3.5%	1.6%	8.2%	4.3%	4.7%	9.7%	100%

NECHES RIVER BASIN

08031200 Kickapoo Creek near Brownsboro, Texas

LOCATION: Lat 32°16'34", long 95°36'19", Henderson County, 94 ft (29 m) downstream from the bridge on Farm Road 314, and 1.0 mi (1.6 km) northeast of Brownsboro.

DRAINAGE AREA: 232 mi² (601 km²).

PERIOD OF RECORD: May 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 358.62 ft (109.307 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 100,925 ac-ft/yr (124.4 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 14,800 ft³/s (419 m³/s) Apr. 27, 1966 (gage height, 14.79 ft or 4.508 m); maximum gage height, 15.34 ft (4.676 m) May 11, 1968; no flow for many days.

Maximum stage since 1936, 16.4 ft (5.00 m) in 1936 or 1937, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	5020	931	1150	1620	181	588	1220	2150	-
1963	2750	2130	3530	12600	10820	358	1640	0	0	0	420	158	32346
1964	687	1850	4750	1450	2060	930	1000	0	1000	0	235	102	12066
1965	1800	11880	3980	3630	22640	1060	4640	0	101	1480	0	268	45407
1966	646	3600	2240	77480	31160	878	257	1540	4730	867	1540	2250	127208
1967	3540	2320	3050	10120	6280	14520	183	430	390	1630	7970	15270	65273
1968	20900	15560	23900	34740	84900	10710	5660	356	972	749	2980	10930	212357
1969	5660	20070	38220	22630	39230	2640	5540	0	0	1440	2420	9850	140789
1970	11330	18390	28800	9980	3340	2480	5540	0	631	25390	8210	3520	112126
1971	3340	4930	4530	2040	1200	118	8480	1200	243	2010	6710	42600	68930
1972	26850	8680	3600	1770	1020	1160	156	454	1240	1670	10130	10050	65552
1973	12540	13160	36430	43810	7740	65530	1330	862	3410	10030	11140	17910	223892
1974	19390	11270	12070	8680	14100	2310	6940	8740	4410	2400	35890	19400	130076
1975	14880	23190	15450	18150	28210	8170	639	8540	148	145	578	1410	111055
MAX	26850	23190	38220	77480	84900	65530	5660	1620	4730	25390	35890	42600	223892
MIN	646	1850	2240	1450	1020	118	1400	0	0	0	0	102	12066
MEAN	9563	10541	13888	19006	18409	7984	688	443	1088	3251	6359	9705	100925
NO. OF MEAN	13	13	13	13	14	14	14	14	14	14	14	14	13
DISTR	9.5%	10.4%	13.8%	18.8%	18.2%	7.9%	.7%	.4%	1.1%	3.2%	6.3%	9.6%	100%

NECHES RIVER BASIN

08031290 Lake Athens near Athens, Texas

LOCATION: Lat 32°12'15", long 96°43'30", Henderson County, at the upstream side of the dam on Flat Creek, 5 mi (8 km) downstream from Underwood Lake, 8 mi (13 km) east of Athens, and 18 mi (29 km) upstream from the Naches River.

DRAINAGE AREA: 21.6 mi² (55.9 km²).

PERIOD OF RECORD: October 1964 to December 1975. Prior to October 1972, published as "Flat Creek Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1964-75): Maximum contents, 35,500 ac-ft (45.0 hm³) May 10, 1968 (elevation, 442.37 ft or 134.838 m); minimum contents since the operating level was first reached (May 7, 1968), 30,400 ac-ft (37.5 hm³) Sept. 22, 1971 (elevation, 438.40 ft or 133.824 m).

REMARKS: The lake is formed by a rolled earthfill dam 3,000 ft (910 m) long, with a capacity of 42,600 ac-ft (52.5 hm³). Deliberate impoundment began on Nov. 1, 1962 and the dam was completed in May 1963. The emergency spillway is an uncontrolled 300-foot wide (91-m) cut through natural ground located about 500 ft (150 m) to the left of the left end of the dam. The service spillway is an uncontrolled 6- by 6-foot (2- by 2-m) square drop inlet. The outlet works consist of a controlled 18-inch diameter (457-millimeter) concrete conduit that extends through the dam. The dam is operated by the Athens Municipal Water Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1964	-	-	-	-	-	-	-	-	-	5120	5580	5760
1965	6670	8690	9340	9770	11950	11930	11380	10990	11060	10960	11110	11560
1966	12060	12760	13100	17450	18680	18330	17840	18200	18540	18380	18830	19320
1967	19730	20000	20370	21780	22680	22390	21850	21220	22220	22630	23040	24640
1968	26710	28200	29940	32070	33300	33330	32860	32200	32730	32760	33610	33240
1969	33500	33340	33420	33480	33330	32660	31780	31080	31040	31200	31630	33210
1970	33160	33560	33240	33330	32920	32370	31780	30840	30760	32490	32900	33040
1971	32990	33140	32820	32870	32490	31590	31330	30990	30820	31110	31380	32980
1972	33360	33020	32900	32990	32610	32950	32540	32250	32170	33310	33240	33330
1973	33380	33270	33420	33600	33100	32990	33270	32600	33220	33740	33440	33340
1974	33530	33360	33250	33190	33270	32570	31690	31750	33080	33950	33680	33440
1975	33330	33330	33440	33620	33530	33060	32460	31920	31500	31830	31760	32220
MAX	33530	33560	33440	33620	33530	33330	33270	32600	33220	33950	33680	33440
MIN	6670	8690	9340	9770	11950	11930	11380	10990	11060	5120	5580	5760
MEAN	27129	27515	27749	28559	28896	28561	28071	27640	27922	26457	26683	27173
NO.	11	11	11	11	11	11	11	11	11	12	12	12
DISTR OF MEAN	8.2%	8.3%	8.3%	8.6%	8.7%	8.6%	8.4%	8.3%	8.4%	8.0%	8.0%	8.2%

NECHES RIVER BASIN

08031400 Lake Palestine near Frankston, Texas

LOCATION: Lat 32°03'12", long 95°26'12", Anderson-Cherokee County line, in the outlet tower near the right bank, 140 ft (43 m) upstream from Blackburn Crossing Dam on the Neches River, 5 mi (8 km) east of Frankston, and 11 mi (18 km) upstream from the gage, "Neches River near Neches".

DRAINAGE AREA: 839 mi² (2,173 km²).

PERIOD OF RECORD: February 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 26, 1962, nonrecording gage at same site and datum.

EXTREMES: Period of record (1962-75): Maximum contents, 501,300 ac-ft (618.1 hm³) June 7, 1973 (elevation, 348.29 ft or 106.159 m); minimum contents since the first appreciable storage, 11,450 ac-ft (14.1 hm³) Nov. 28, 1970 (elevation, 310.00 ft or 94.488 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,720 ft (1,740 m) long, including a 600-foot wide (180-m) uncontrolled emergency spillway located near the left end of the dam, capacity of the lake is 412,000 ac-ft (508.0 hm³). Deliberate impoundment began on May 1, 1962 and the dam was completed on June 13, 1962. The outlet works consist of a multi-gated concrete tower that is connected to a 8.5-foot diameter (2.6 m) concrete conduit through the dam. The low-flow outlet consists of two 3.0-foot (0.9 m) iron pipes that are connected to the tower structure for low-flow releases. The enlargement of the lake began on Sept. 26, 1969 and was completed on Mar. 3, 1971. The dam is operated by the Upper Neches River Municipal Water Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	~	72450	61830	68560	44460	38120	45000	38120	37640	39510	40430	39720
1963	39460	40100	38900	38890	38930	35950	34660	32960	32280	31560	33900	35380
1964	36290	36190	38980	38210	39460	39320	36770	36290	37680	37350	38600	39180
1965	38890	52120	43910	45300	61970	47580	42330	39420	39180	38410	38890	40320
1966	39780	34990	43150	86410	56700	42390	36100	40160	42820	42550	43970	42990
1967	43690	43860	45600	46800	39270	39720	35180	31650	32920	31690	42500	51270
1968	50410	49480	51600	54610	58480	53630	32840	25080	26010	17140	16910	21580
1969	37560	43370	62110	56110	50230	17330	13430	12680	13200	13290	13770	18410
1970	19310	22050	33430	28620	16440	18010	17680	16390	17260	32200	12040	12250
1971	12650	22470	28030	34660	37160	35710	33480	34240	33260	35420	47820	123000
1972	192000	214800	228300	231300	230800	230800	226000	219900	221500	244000	289800	339700
1973	392500	417000	439200	450600	415200	417500	419100	405800	422500	425100	440100	430100
1974	438400	427500	418300	421500	420700	408800	396000	397000	420200	436900	438700	428000
1975	423800	422800	423000	435000	436600	422000	407500	396500	390000	392200	393000	399800
MAX	438400	427500	439200	450600	436600	422000	419100	405800	422500	436900	440100	430100
MIN	12650	22050	28030	28620	16440	17330	13430	12680	13200	13290	12040	12250
MEAN	134207	135654	139738	145469	139029	131919	126862	123299	126175	129809	135031	144407
NO.	13	14	14	14	14	14	14	14	14	14	14	14
DISTR OF MEAN	8.3%	8.4%	8.7%	9.0%	8.6%	8.2%	7.9%	7.7%	7.8%	8.1%	8.4%	9.0%

NECHES RIVER BASIN

08031500 Neches River near Reese, Texas

LOCATION: Lat 32°01'30", long 95°25'40", Anderson-Cherokee County line, at the Texas and New Orleans Railroad Co. bridge, 2 mi (3.2 km) west of Reese, 600 ft (182.4 m) above a highway bridge, and 1.5 mi (2.4 km) below the mouth of Killough Creek.

DRAINAGE AREA: 851 mi² (2,204.1 km²).

PERIOD OF RECORD: May 1924 to September 1927.

GAGE: Inverted staff gage. Datum of gage is 310.88 ft (94.76 m) above mean sea level.

EXTREMES: Period of record (1924-27): Maximum discharge, 7,480 ft³/s (212.1 m³/s) April 9, 1927; no flow July 25-30 and September 10-11, 1925.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	49600	44300	1400	296	5370	618	2760	9860	-
1925	17800	10000	8980	5730	9800	393	347	246	379	2560	35100	6040	97375
1926	33700	20000	90500	70500	122000	35500	29700	13000	774	3750	6510	61100	487034
1927	90200	65400	61400	179000	31000	42500	20800	4460	4170	-	-	-	-
MAX	90200	65400	90500	179000	122000	44300	29700	13000	5370	3750	35100	61100	487034
MIN	17800	10000	8980	5730	9800	393	347	246	379	618	2760	6040	97375
MEAN	47233	31800	53627	85077	53100	30673	13062	4501	2673	2309	14790	25667	364512
NO.	3	3	3	3	4	4	4	4	4	3	3	3	2
DISTR													
OF MEAN	13.0%	8.7%	14.7%	23.3%	14.6%	8.4%	3.6%	1.2%	.7%	.6%	4.1%	7.0%	100%

NECHES RIVER BASIN

08032000 Neches River near Neches, Texas

LOCATION: Lat. 31°53'32", long 95°25'50". Anderson-Cherokee County line, at the bridge on U.S. Highway 70, 1.0 mi (1.6 km) downstream from the Missouri-Pacific Railroad Co. bridge, 1.4 mi (2.3 km) downstream from Walnut Creek, and 4.4 mi (7.1 km) northeast of Neches.

DRAINAGE AREA: 1,145 mi² (2,966 km²).

PERIOD OF RECORD: March 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 294.06 ft (80.486 m) above mean sea level, datum of 1929. Prior to Oct. 27, 1945, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 37 years, 535,864 ac-ft/yr (660.7 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 45,500 ft³/s (1,290 m³/s) Apr. 2, 1945 (gage height, 22.07 ft or 6.727 m); no flow Oct. 3-5, 1939.

Flood in May 1908, stage 24.3 ft (7.41 m), was the highest since the flood in May 1884 which was probably higher.

REMARKS: Records good. There is some regulation by Lake Palestine (station 08031400) located 11 mi (18 km) upstream and Lake Athens (station 08031290) located 50 mi (80 km) upstream. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	58810	22210	22400	8880	2530	547	146	134	1190	4240	-
1940	6730	14320	8380	22060	16110	11040	17770	3140	3840	1750	97850	132100	335090
1941	109800	57010	97550	63030	41400	139000	37540	4620	4840	20980	26020	57050	658840
1942	40580	48540	43800	199600	98720	80890	8590	8090	24410	7750	15150	23130	599250
1943	72650	22840	31630	42630	72110	99210	8150	1060	1370	38740	9750	24240	424380
1944	109500	137100	162600	52100	314000	48610	4720	2190	4270	2370	11820	64570	913850
1945	149500	83510	250800	431300	33630	34360	75940	7400	6160	60860	29960	55030	1218450
1946	164900	135900	151300	82300	173800	171400	19830	27130	54720	26460	226100	107700	1341540
1947	118600	58960	126200	146300	55600	29760	8040	2530	4890	3860	13660	62000	630480
1948	54490	124300	112800	38670	96620	11980	6590	1110	922	1410	6480	10000	484372
1949	35160	56080	80320	91590	21970	12440	4450	3940	3180	31010	29720	20400	390260
1950	103900	206600	47390	55920	108300	60670	9670	4440	6010	4130	8380	9380	624790
1951	15430	36210	42950	30430	23000	17680	4510	894	1710	1760	5870	12910	193354
1952	17940	42550	50780	95220	49970	24030	2340	647	353	440	4100	26240	314630
1953	39840	21870	96000	25480	217000	7710	7070	2600	2550	1480	6980	32700	461280
1954	27280	21810	21550	24190	92230	5320	689	223	710	8800	58660	35480	296303
1955	37840	63750	86020	83320	35840	14350	5460	2290	5600	3870	2280	6880	347500
1956	12290	33690	12630	7500	80530	1860	703	195	221	304	1620	2520	154063
1957	4580	17550	24090	223200	223700	151500	4810	3260	2990	42910	122600	58200	879390
1958	80220	57050	48190	53460	261500	16840	40360	3490	13510	13690	15460	21040	624810
1959	21060	54720	54040	96170	210000	50430	24050	11420	5120	13290	16750	62770	619820
1960	135400	75390	103500	31470	18460	12490	20490	4820	4910	17080	29570	225500	679080
1961	201800	148200	143000	64790	21980	30380	19540	5760	7330	6770	16180	51410	717140
1962	44190	56830	81580	41100	67870	26300	10650	12570	10090	10000	11850	24760	398990
1963	25330	19980	28900	17830	56100	9610	2180	1530	1530	787	953	6860	171590
1964	9790	16910	28700	18870	9370	6950	770	596	498	1010	4420	6880	104764
1965	19210	41180	43730	32680	108300	44770	3950	1360	1310	1500	2380	5370	305740
1966	9400	25410	8700	247700	208400	18220	7090	4700	15490	6410	8720	16530	576770
1967	20120	14430	14760	37400	33170	39110	5170	2530	3740	3260	9890	26090	209670
1968	88700	72180	95580	129200	325200	66590	46820	11320	15870	16630	26650	70470	956210
1969	41380	57050	140500	178100	133200	51040	6260	2340	2930	3150	34690	51240	701880
1970	57560	56260	113000	62400	36330	5890	2110	1230	3530	12300	64520	21660	436790
1971	20820	16150	17510	5090	5480	1410	1530	2250	1920	2250	4640	13640	92610
1972	26040	10400	5660	3580	2660	2330	1270	1570	2800	6790	10610	12020	85730
1973	20090	32130	139700	223600	99300	245700	31290	16480	78140	126900	92030	134400	1239670
1974	124100	101400	72420	42060	56100	33370	5270	4070	55870	34960	152300	114800	796720
1975	85610	142900	67580	71650	110900	79260	22600	5270	5530	8680	8470	10970	619420
MAX	201800	206600	250800	431300	325200	245700	75940	27130	78140	126900	226100	225500	1341540
MIN	4580	10400	5660	3580	2660	1410	689	195	710	134	953	2520	85730
MEAN	59771	60566	73315	83384	95707	45199	12995	4584	9686	14716	32115	43816	535854
NO.	36	36	37	37	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	11.2%	11.3%	13.7%	15.6%	17.9%	8.4%	2.4%	.9%	1.8%	2.7%	6.0%	8.2%	100%

NECHES RIVER BASIN
08032500 Neches River near Alto, Texas

LOCATION: Lat 31°34'45", long 95°09'55", Houston-Cherokee County line, at the bridge on State Highway 21, 600 ft (180 m) downstream from Bowles Creek, and 7.5 mi (12.1 km) southwest of Alto.

DRAINAGE AREA: 1,945 mi² (5,038 km²).

PERIOD OF RECORD: January 1944 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 108.29 ft (60.439 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 32 years, 862,126 ac-ft/yr [1,063.0 hm³/yr].

EXTREMES: Period of record (1944-75): Maximum discharge, 42,800 ft³/s (1,210 m³/s) Apr. 4, 1945 (gage height, 26.85 ft or 8.184 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 27, 28, 1954.

Maximum stage since at least 1881, 28.2 ft (8.60 m) in May 1884, from information by local residents [discharge, about 50,000 ft³/s or 1,420 m³/s].

REMARKS: Records good. The flow is partly regulated since 1962 by Lake Athens (station 08031290) and Lake Palestine (station 08031400); some minor regulation by Lake Jacksonville since 1957.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	150200	198200	252400	143700	624600	104500	12710	5870	11310	5660	32360	109400	1650910
1945	308400	129700	300500	619800	84050	47640	141000	20420	13290	114800	52600	94620	1926820
1946	231500	252700	245400	159000	242800	202200	49410	12940	79480	40850	286100	178900	1981280
1947	183100	109400	256200	200800	184000	80710	22060	7240	8480	7140	20520	71330	1150980
1948	85200	165400	144800	78360	115400	22100	12740	2320	1980	2380	10250	20570	661500
1949	62930	94490	97810	136100	37590	19360	8770	8920	5790	43200	44600	36760	596320
1950	137800	254600	86980	73060	188600	113800	20860	8690	9160	7220	11170	15090	929830
1951	24060	41990	64700	51700	30310	23250	7160	1290	3390	2990	8370	20860	280020
1952	24400	63340	91850	114100	119200	47310	5630	1560	449	510	4400	28390	501139
1953	51980	37400	178100	49090	395000	32310	8980	5290	4360	2210	8930	48870	822520
1954	40890	36930	32530	33080	99870	14440	1680	395	650	5010	52110	47190	364190
1955	53730	99890	76530	137500	52730	31000	7650	5880	5550	5900	2830	8760	487950
1956	14340	42750	22980	19100	97800	5110	1150	279	137	108	1720	2790	208264
1957	6010	21130	30220	238400	411500	215400	11740	13720	4490	113900	179900	105100	1351510
1958	133700	122300	81940	73640	293100	28460	44830	7990	5880	30700	22700	32470	925720
1959	31280	77390	81400	132700	305100	118300	39850	25730	10410	19200	33580	101100	976040
1960	207700	129500	169400	56680	34060	25860	24280	10140	9620	27420	60890	357500	1113050
1961	351100	236300	275100	157400	38920	97650	48530	13440	20130	13490	28530	109900	1390490
1962	96210	107100	126200	77020	140100	67100	27320	13150	18080	14610	17340	35900	740130
1963	40920	35540	43730	35920	46990	18690	7830	2710	2440	1960	3050	10460	250240
1964	15260	23070	42160	29990	21920	16700	1470	1250	1640	2200	5670	9700	171030
1965	20780	45920	65960	77800	246500	82910	8580	5130	5110	5340	8360	27570	599960
1966	32940	59670	34460	230400	462000	42470	11540	12700	21300	10780	11820	19650	949730
1967	29000	20770	21460	49800	45480	45120	9630	3830	6060	4260	10680	22330	268420
1968	126900	87770	132400	209300	341300	126200	81060	16710	32180	24230	45840	145300	1369190
1969	76730	99220	281200	345600	263900	62180	11870	2520	4700	5370	41980	69140	1264410
1970	82300	72420	163100	116700	55640	9250	3230	1350	5850	11910	62150	26750	610650
1971	24910	21010	28260	12460	26370	3390	1510	3760	3050	3760	6610	27560	162650
1972	51210	24590	17340	10370	5670	4850	5550	2450	2210	9660	25170	27220	186290
1973	49890	56810	159500	262300	183300	242000	41550	19800	81500	206100	107100	216200	1626050
1974	232300	175900	115400	60280	70920	39960	7760	6260	66950	37350	169900	153700	1136680
1975	123900	213000	97630	104000	175900	111700	46280	9570	7190	12340	15000	18360	934870
MAX	351100	254600	300500	619800	624600	242000	141000	25730	81500	206100	286100	357500	1981280
MIN	6010	20770	17340	10370	5670	3390	1150	279	650	108	1720	2790	162650
MEAN	96924	98631	119364	128005	169957	65685	22944	7914	15695	24767	43507	68733	862126
NO.	32	32	32	32	32	32	32	32	32	32	32	32	32
DISTR OF MEAN	11.2%	11.4%	13.8%	14.8%	19.7%	7.6%	2.7%	.9%	1.8%	2.9%	5.0%	8.0%	100%

NECHES RIVER BASIN

08033000 Neches River near Diboll, Texas

LOCATION: Lat 31°07'58", long 94°48'35", Angelina-Polk County line, at the bridge on U.S. Highway 59, 700 ft (210 m) downstream from the Texas and New Orleans Railroad Co. bridge, 2.8 mi (4.7 km) downstream from Alabama Creek, and 3.8 mi (6.1 km) south of Diboll.

DRAINAGE AREA: 2,724 mi² (7,065 km²).

PERIOD OF RECORD: October 1923 to September 1925, April 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 134.46 ft (40.983 m) above mean sea level, datum of 1929. Prior to July 10, 1925, nonrecording gage at site 630 ft (192 m) upstream; July 10 to Aug. 31, 1925, and Mar. 30, 1939 to Sept. 24, 1943, nonrecording gage at site 500 ft (150 m) upstream; Sept. 25, 1943 to Aug. 16, 1973, nonrecording gage at site 70 ft (21 m) upstream; all at present datum.

AVERAGE DISCHARGE: 40 years (1923-25, 1939-75), 1,173,850 ac-ft/yr (1,447.4 hm³/yr).

EXTREMES: Period of record (1923-25, 1939-75): Maximum discharge, 49,900 ft³/s (1,410 m³/s) May 4, 1944 (gage height, 18.70 ft or 6.700 m); no flow Aug. 15 22, 1925.

Maximum stage since at least 1874, 21 ft (6.4 m) in May 1884 (discharge, about 110,000 ft³/s or 3,120 m³/s).

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	13500	17900	24800	-
1924	263000	239000	364000	216000	132000	270000	15400	3010	4380	5680	5260	17900	1535630
1925	37900	24800	24000	16400	11900	2970	934	396	595	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	58670	35040	30650	5250	2120	845	330	2230	91720	-
1940	25300	172200	32310	60800	100000	94090	79700	7460	10190	3780	258900	535500	1380230
1941	363900	221800	331700	138800	149600	204200	175900	13970	18460	51740	275600	154100	2099770
1942	132900	111100	117800	300300	299100	170200	60770	16610	45460	13740	22280	35820	1326080
1943	126500	55520	44930	62630	61960	107700	20410	5610	2080	17390	30270	38870	573870
1944	199000	264000	357100	198500	1042000	199000	15560	5970	24580	7140	37090	200100	2550040
1945	541500	208700	376500	785000	141300	52910	126900	47210	13100	111500	64680	107000	2576300
1946	351800	478800	444400	256300	348400	335100	70710	14140	82920	43260	373100	255800	3054730
1947	359500	178300	356400	217300	246300	126200	32730	8750	8480	7990	19460	76880	1638290
1948	100700	252600	225300	144200	116600	55430	14620	2980	2270	2210	11170	20610	948690
1949	78160	129800	158600	174700	74290	21840	9800	13560	11770	84090	62480	86970	906060
1950	244500	390000	172800	90050	261300	256800	30320	10990	10090	8550	11080	17880	1504360
1951	27800	43740	80930	67000	31750	22960	9420	1810	3420	3910	7960	23260	323960
1952	27180	69520	138700	146000	184200	68360	8030	2650	553	417	7060	33730	686400
1953	58890	66950	229400	117000	615600	99260	25900	9100	7980	2340	8600	55870	1296890
1954	50240	46150	36640	35730	123700	49290	1760	809	178	2600	42580	42050	431127
1955	54300	130600	100800	172400	90320	53780	8710	9180	5700	7260	2740	8530	644320
1956	14510	61440	24890	39780	104900	9090	1820	396	187	167	1490	2700	261370
1957	5790	18920	33070	157200	620000	235400	23430	17030	5360	164500	297700	182200	1760600
1958	234100	149700	119300	75250	366700	31390	45300	8790	99840	58770	22000	32730	1243870
1959	32120	91740	111700	165800	277900	181600	55970	38670	12240	21710	50780	99550	1139780
1960	216700	205100	221200	75990	61380	34350	35690	20250	11030	27960	72060	470300	1452010
1961	483400	304300	307600	243700	52750	67880	87480	16600	30350	14800	29390	148900	1787070
1962	122100	140000	134100	85630	255900	66220	30040	14430	19360	12870	15510	42470	938630
1963	56810	50190	62230	55600	40900	23090	8690	3430	2500	1820	3060	11110	319430
1964	17990	25040	61550	85670	48220	24480	2340	1420	1730	2200	5110	11240	286990
1965	21090	49770	70100	124400	179100	151600	12990	6730	10180	7130	10770	81950	725810
1966	70050	121700	49570	105400	631900	64660	13170	20570	20510	14240	10440	17910	1140120
1967	28670	24650	23620	61780	55880	55120	15920	4070	5400	3670	8360	19410	306750
1968	141400	97960	145900	332700	334400	219400	127100	23070	45860	28120	43200	193000	1752110
1969	115300	160000	394200	476700	390800	76630	16420	2790	4750	4760	27770	66760	1736880
1970	84740	73530	166200	120700	77620	11820	3730	1618	4370	15000	55090	31830	646240
1971	33210	22190	34170	15750	27110	5390	2430	4540	3580	4990	8200	35170	196730
1972	64230	44950	32360	21170	24240	9700	11420	3820	1830	13900	53150	68260	349030

NECHES RIVER BASIN

08033000 Neches River near Diboll, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	144000	92830	214700	307000	282900	335900	82220	24340	93830	252400	197000	304700	2331820
1974	399500	256400	141200	76670	74660	50250	12120	8270	70550	57010	196200	204100	1546930
1975	187300	315100	145700	133000	234500	148600	80850	14580	8480	13250	25400	20600	1327360
MAX	541500	478800	444400	785000	1042000	335900	175900	47210	99840	252400	373100	535500	3054730
MIN	5790	18920	23620	15750	11900	2970	934	396	178	167	1490	2700	196730
MEAN	145165	141818	160149	154299	210439	103162	35433	10557	18077	28377	61362	105012	1173850
NO.	38	38	38	39	39	39	39	39	39	39	39	39	37
DISTR													
OF MEAN	12.4%	12.1%	13.6%	13.1%	17.9%	8.8%	3.0%	.9%	1.5%	2.4%	5.2%	8.9%	100%

NECHES RIVER BASIN
08033300 Piney Creek near Groveton, Texas

LOCATION: Lat 31°08'25", long 95°05'11", Trinity County, at the bridge on State Highway 94, 6.3 mi (10.1 km) northeast of Groveton, and 7.3 mi (11.7 km) upstream from Carey Creek.

DRAINAGE AREA: 79,0 mi² (204.6 km²).

PERIOD OF RECORD: October 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 251.40 ft (76.627 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 23,046 ac-ft/yr (28.4 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 5,890 ft³/s (167 m³/s) Mar. 24, 1973 (gage height, 15.43 ft or 4.703 m); no flow at times.

Maximum stage since at least 1921, 17 ft (5.2 m) in May 1942, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	-	-	11.0	33.0	39.0	-
1962	523.0	915	249	877	565.0	59.0	9.1	9.1	1.20	0	204	14.10	14613
1963	818	2100	884	2830	51.0	7.50	23.0	0	0	0	0	59.0	6773
1964	206	124	806	5300	381	78.0	0	0	0	0	0	0	6895
1965	644	832	1600	344	676	92.0	3.00	.20	34.1	0	34.0	52.80	9846
1966	4440	5630	554	7780	2850	11.0	27.0	2120	19.0	117	6.20	17.0	23571
1967	21.0	186	56.0	845	260	944	22.0	1.00	.06	0	0	64.0	2399
1968	3820	327	735	13490	4180	13260	748	7.40	135	0	452	3160	40314
1969	755	6900	16310	14960	17040	68.0	16.0	1.00	0	.06	2.40	1.00	58053
1970	15.0	229	1550	895	345	1.40	1.00	0	.10	463	2.40	.20	3502
1971	.40	0	.10	.20	7.90	36.0	0	.20	.10	0	0	14.0	58.9
1972	585	124	132	67.0	49.0	0	0	0	0	1300	1790	36.10	7657
1973	10040	2200	14770	7540	881	12740	1020	77.0	3410	10480	5780	84.70	77408
1974	21370	1170	258	293	152	122	0	51.0	1710	446	3890	22.10	31672
1975	3640	14460	1840	1480	11250	3160	1210	587	5.80	718	1000	2.08	39559
MAX	21370	14460	16310	14960	17040	13260	1210	2120	3410	10480	5780	84.70	77408
MIN	.40	0	.10	.20	7.90	0	0	0	0	0	0	0	58.9
MEAN	3685	2657	2839	4050	3127	2184	220	204	402	902	880	18.96	23046
NO.	14	14	14	14	14	14	14	14	14	15	15	15	14
DISTR OF MEAN	16.0%	11.5%	12.3%	17.6%	13.6%	9.5%	1.0%	.9%	1.7%	3.9%	3.8%	8.2%	100%

NECHES RIVER BASIN

08033500 Naches River near Rockland, Texas

LOCATION: Lat 31°01'29", long 94°23'55", Tyler County, at the bridge on U.S. Highway 69, 2,200 ft (671 m) upstream from an abandoned ferry crossing, 0.8 mi (1.3 km) upstream from the Texas and New Orleans Railway Co. bridge, 1.2 mi (1.9 km) north of Rockland, 3.2 mi (5.1 km) downstream from Billams Creek, and 32.4 mi (52.1 km) upstream from the Angelina River.

DRAINAGE AREA: 3,636 mi² (9,417 km²).

PERIOD OF RECORD: July 1903 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 91.41 ft (27.862 m) above mean sea level, datum of 1929. Prior to May 23, 1973, nonrecording gage located 2,200 ft (671 m) downstream at same datum.

AVERAGE DISCHARGE: 73 years, 1,660,340 ac-ft/yr (2,034.9 hm³/yr).

EXTREMES: Period of record (1903-75): Maximum discharge, 49,800 ft³/s (1,410 m³/s) May 6, 1944 (gage height, 32.04 ft of 9.766 m, present site); minimum observed during period of daily records, 1.6 ft³/s (0.045 m³/s) Sept. 28 to October 2, 1956.

Historical flood information begins with the flood in May 1884 which reached a stage of 35.0 ft (10.67 m), present site, from information by a local resident (discharge, about 82,000 ft³/s or 1,780 m³/s).

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1903	-	-	-	-	-	-	52800	77500	10000	20500	10100	27800	-
1904	27000	68000	72600	80300	234000	20400	22200	15900	6310	2870	1620	45700	596900
1905	93500	183000	346000	453000	846000	226000	410000	150000	12000	11600	111000	162000	3006100
1906	411000	182000	152000	129000	130000	67800	76200	52600	23900	82400	19500	70700	1397100
1907	182000	74400	111000	64900	612000	332000	28900	13000	17400	25900	449000	538000	2448500
1908	267000	519000	319000	277000	633000	186000	26300	16700	34600	29800	22700	29500	2360800
1909	41300	60000	65200	40500	53100	79700	13600	4570	1730	8850	3390	33300	405240
1910	36500	153000	115000	163000	125000	67500	16400	4120	2800	1780	714	6210	712024
1911	18400	22200	42400	251000	254000	8930	41400	23100	5950	3690	11500	247000	929570
1912	275000	75900	309000	415000	232000	45000	32600	20300	14900	4300	2980	23700	1450680
1913	21700	85500	311000	178000	56200	27800	28800	16200	60700	91600	27200	256000	1160700
1914	141000	78900	265000	365000	646000	297000	33800	38400	28200	15400	62500	209000	2180200
1915	204000	242000	225000	164000	442000	30300	41800	221000	45500	22700	64900	103000	1806200
1916	227000	145000	78700	104000	615000	129000	47700	27500	16700	13400	25500	50100	1479600
1917	41300	70000	34800	55800	45600	36500	21000	14600	8390	6950	6490	28000	369430
1918	16900	24200	22300	55000	78100	16200	9530	11300	8870	8420	59300	70700	382820
1919	219000	267000	180000	154000	200000	219000	337000	39700	21500	180000	415000	261000	2493200
1920	601000	401000	231000	121000	68900	50500	13700	51900	40600	13700	55500	142000	1790800
1921	304000	180000	274000	586000	465000	82100	402000	21200	11900	6010	7320	22300	2361830
1922	65800	198000	507000	1110000	910000	135000	36200	18200	5590	2930	26200	22300	3037220
1923	73200	283000	410000	839000	295000	42400	13500	3390	31700	24600	55600	573000	2644390
1924	414000	366000	589000	283000	266000	441000	19200	4040	3520	5480	4390	12700	2408330
1925	53800	30100	23700	13900	12400	4520	1760	605	934	77700	476000	72500	767919
1926	250000	91200	374000	580000	279000	155000	100000	50100	13700	9850	24600	165000	2092450
1927	297000	238000	506000	464000	254000	99500	103000	20400	3990	17600	14100	36900	2052490
1928	40900	43900	180000	125000	61200	58000	23200	14400	2870	2450	20300	43200	615420
1929	137000	154000	186000	118000	582000	553000	41600	5860	5640	2850	41900	54000	1881850
1930	239000	324000	197000	92800	181000	206000	9410	3600	7020	56900	40900	23000	1589630
1931	259000	254000	257000	145000	204000	22400	9350	7810	3890	873	10500	20800	1381823
1932	719000	805000	514000	156000	84200	30800	16000	6060	10500	5920	6720	50700	2404900
1933	151000	262000	314000	286000	152000	58700	71300	17200	20400	5280	7080	18900	1363860
1934	210000	307000	445000	419000	118000	15300	3810	1490	1770	3700	25760	165200	1716030
1935	180500	174000	168000	168800	1240000	297700	49150	18110	18990	10250	62300	276900	2664700
1936	102900	74330	72540	37130	108500	96350	175700	15930	7770	5160	11210	53010	760530
1937	300200	178000	173400	153700	24280	13650	4990	2780	8040	13350	35360	98810	1006560
1938	209700	187800	187900	435400	174200	28110	13840	11990	2840	1450	8540	17030	1278600
1939	160300	241600	235800	85140	43230	48060	8660	3290	1280	998	3340	122000	953698
1940	80780	304400	45290	132300	131300	154000	94920	13920	14340	5330	268200	895400	2140180
1941	510900	313000	481200	218800	287200	320900	217600	23330	44510	110500	499000	209600	3228540
1942	170400	155400	199600	378400	361000	217600	82660	84660	53570	18860	32300	41890	1796340
1943	201900	75200	66870	73990	65970	110900	40170	17050	3420	16380	34590	39370	745810
1944	237800	341500	424900	296800	1471000	297600	23260	8130	38420	8570	40300	273700	3461980
1945	688400	392100	431700	1093000	219300	62200	108600	66420	16750	116100	83570	135600	3413740
1946	442700	782800	531900	336900	421100	468900	117100	25800	82440	59510	564900	344700	4168750
1947	648700	225400	516400	242400	375300	212400	47230	10040	8540	8510	25560	91790	2412270
1948	106700	320400	265100	203500	125300	77970	17880	4110	3560	2310	16300	23000	1166130
1949	114900	198000	327000	259600	140200	48730	13430	16540	12860	140700	89900	208100	1569960
1950	510600	545600	320000	105600	342000	497400	39430	13870	11240	11480	11700	18890	2427810
1951	29740	46600	94600	98550	38330	24180	12950	2520	4500	5380	7910	22830	388090
1952	29350	80660	161400	199200	283800	91660	9330	3550	920	594	7530	46870	914864

NECHES RIVER BASIN

08033500 Neches River near Rockland, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	81800	115900	265500	182300	1080000	192700	39220	12640	9750	3080	8690	65670	2057250
1954	77940	52090	39870	55800	169600	59810	3600	1520	482	1130	47650	49340	558832
1955	66200	182200	119800	317400	94110	67030	10430	10880	5770	8430	2670	9050	893970
1956	15490	78890	37010	71540	91670	15280	2890	673	298	208	1690	3690	319329
1957	6460	18930	67000	136300	875300	239800	39570	19470	7650	152500	464600	304800	2332380
1958	395100	220300	163200	100800	422500	44390	53440	12630	96960	94670	28380	39630	1672000
1959	35670	128100	124500	285100	279900	204600	72700	58140	13890	30350	57970	140200	1431120
1960	274100	288900	316600	91810	76240	52710	50090	27530	13020	33100	87210	538400	1851710
1961	757100	400200	438500	320800	60970	49730	127200	23670	84680	20570	33440	199800	2516660
1962	173500	186400	159500	110100	365000	76330	37760	15090	21550	13970	17780	70940	1247920
1963	95380	86480	91840	76960	42760	29070	13680	3780	5330	2250	4320	17570	469420
1964	33120	39190	151400	157400	140900	33640	4580	2100	2560	2660	3910	15290	586750
1965	21790	75400	87000	142200	131900	200300	14570	6560	22390	7990	11460	164900	886480
1966	124600	298600	77440	79640	755600	84990	16120	25960	21850	20390	11010	20590	1536790
1967	33670	29010	29200	84080	83040	66290	17760	4620	5880	4230	8120	20950	386850
1968	157600	114100	175200	548200	379800	326600	227300	32670	48690	28680	45000	236700	2320540
1969	144100	199300	587100	619100	782600	129200	21650	3700	5430	5240	24350	69480	2591250
1970	89890	81010	180000	148200	112400	15860	5510	2250	5070	26880	49820	30700	747590
1971	29920	20450	33700	16770	28840	6080	2640	4910	4200	11120	8350	71040	238020
1972	98820	78890	75320	46420	82520	11390	12340	5650	5480	11680	58420	90340	577270
1973	244400	154900	303600	533700	380800	610100	137800	35900	127800	297100	365500	479900	3671500
1974	707100	411100	167800	102600	82120	56620	13180	9000	81440	65500	304400	319500	2320360
1975	323700	436900	186500	183100	370100	179700	114300	34310	11900	27290	49610	50010	1967420
MAX	757100	805000	589000	1110000	1471000	610100	410000	221000	127800	297100	564900	895400	4168750
MIN	6460	18930	22300	13900	12400	4520	1760	605	298	208	714	3690	238020
MEAN	204878	201685	225526	239024	303880	133026	57771	22856	19448	29732	76810	135704	1650340
NO.	72	72	72	72	72	72	73	73	73	73	73	73	72
DISTR													
OF MEAN	12.4%	12.2%	13.7%	14.5%	18.4%	8.1%	3.5%	1.4%	1.2%	1.8%	4.7%	8.2%	100%

NECHES RIVER BASIN

08033700 Striker Creek near Summerfield, Texas

LOCATION: Lat 32°00'10", long 84°59'35", Cherokee County, at the bridge on U.S. Highway 79, 3.5 mi (5.6 km) downstream from Johnson Creek, and 6.5 mi (10.4 km) northeast of Summerfield.

DRAINAGE AREA: 148 mi² (383.3 km²).

PERIOD OF RECORD: October 1940 to September 1949.

GAGE: Wire-weight gage. Datum of gage is 287.0 ft (87.5 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 145,068 ac-ft/yr (178.9 hm³/yr).

EXTREMES: Period of record (1940-49): Maximum discharge, 10,800 ft³/s (305.8 m³/s) November 24, 1940 (gage height, 17.23 ft or 5.2 m, from floodmark); minimum observed 0.7 ft³/s (0.02 m³/s) August 31 and September 1, 1943.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	367	49650	31660	-
1941	17710	15150	15490	14300	9320	5470	5680	1930	9350	20340	26480	15590	156810
1942	7950	9620	8800	21720	7280	17350	2540	10420	10380	2960	5340	10220	114600
1943	8950	4850	5050	5460	1950	1800	1340	180	202	2580	2770	6300	41432
1944	23230	32110	23250	12230	63700	6810	749	658	2760	918	9630	25780	201825
1945	31940	14660	34040	29450	8490	15660	35680	1420	2030	29320	4990	9870	217550
1946	29170	30420	22000	7650	38170	24640	3320	8520	4350	3470	32990	13730	218430
1947	22210	10890	22400	22260	24310	4140	1580	637	1950	1100	4070	13770	129317
1948	14480	23180	13630	9420	13050	1540	1240	207	268	483	3440	3650	84588
1949	13040	9870	7800	12370	5650	2870	3160	2750	1880	-	-	-	-
MAX	31940	32110	34040	29450	63700	24640	35680	10420	10380	29320	49650	31660	218430
MIN	7950	4850	5050	5460	1950	1540	749	180	202	367	2770	3650	41432
MEAN	18742	16750	16940	14984	19102	8920	6143	2969	3686	6840	15484	14508	145068
NO.	9	9	9	9	9	9	9	9	9	9	9	9	8
DISTR													
OF MEAN	12.9%	11.5%	11.7%	10.3%	13.2%	6.1%	4.2%	2.0%	2.5%	4.7%	10.7%	10.0%	100%

NECHES RIVER BASIN

06033900 East Fork Angelina River near Cushing, Texas

LOCATION: Lat 31°51'36", long 94°49'23", Rusk County, at the bridge on Farm Road 225, 0.1 mi (0.2 km) downstream from Everett Branch, 0.9 mi (1.4 km) upstream from Reagan Branch, 3.5 mi (5.6 km) north of Cushing, and 8 mi (13 km) upstream from the Angelina River.

DRAINAGE AREA: 158 mi² (409 km²).

PERIOD OF RECORD: January 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 275.29 ft (83.908 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 72,444 ac-ft/yr (89.3 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 11,100 ft³/s (314 m³/s) July 23, 1968 (gage height, 11.66 ft or 3.554 m); minimum, 0.7 ft³/s (0.020 m³/s) Aug. 14, 1964.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	2870	2750	7470	5130	2100	1230	222	239	441	376	675	1190	24693
1965	1730	6840	16760	8000	9650	2410	487	427	1090	541	871	4050	55056
1966	3820	6410	3090	25340	21830	2020	910	2200	1130	858	928	1800	70336
1967	1800	1700	2020	2820	1660	2290	769	185	223	212	489	1320	15488
1968	11790	3250	9030	25000	20080	4130	14570	1830	5270	3350	5510	20180	119990
1969	6720	15270	34760	26410	19340	2350	846	436	733	877	2620	3820	114182
1970	5660	6540	9770	5410	1840	900	558	489	635	1560	2020	1610	36992
1971	1790	2730	2760	3190	12290	879	510	637	573	605	947	4360	31271
1972	9040	4250	3110	1950	991	787	777	426	494	2210	6010	9680	39725
1973	18920	8950	14780	22250	5790	11120	9230	3210	13430	13690	9030	21800	152200
1974	37800	11420	8000	4510	4140	1960	1140	792	6000	5390	14380	10760	106292
1975	13700	24000	9110	8670	18400	11770	4000	2300	1320	1870	3840	4110	103090
MAX	37800	24000	34760	26410	21830	11770	14570	3210	13430	13690	14380	21800	152200
MIN	1730	1700	2020	1950	991	787	222	185	223	212	489	1190	15488
MEAN	9637	7843	9888	11557	9859	3487	2835	1098	2612	2628	3943	7057	72444
NO.	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTR OF MEAN	13.3%	10.8%	13.6%	16.0%	13.6%	4.8%	3.9%	1.5%	3.6%	3.6%	5.4%	9.7%	100%

NECHES RIVER BASIN

08034000 Lake Tyler near Whitehouse, Texas

LOCATION: Lat 32°14'30", long 95°10'33", Smith County, at the City of Tyler pumphouse, 2.0 mi (3.2 km) north of Whitehouse Dam on Prairie Creek, 3.0 mi (4.8 km) northwest of Mud Creek Dam on Mud Creek, and 3.2 mi (5.1 km) northeast of Whitehouse.

DRAINAGE AREA: 107 mi² (277 km²).

PERIOD OF RECORD: March 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 3, 1949, nonrecording gage at dam, May 3, 1949 to July 11, 1951, non-recording gage at the pumphouse. July 12, 1951 to Feb. 1, 1968, water-stage recorder at the intake tower in the lake, 660 ft (201 m) south of the pumphouse. All gages at same datum.

EXTREMES: Period of record (1949-75): Maximum contents, 87,340 ac-ft (107.7 hm³) Feb. 3, 1975 (elevation, 378.71 ft or 114.821 m); maximum elevation, 378.3 ft (115.31 m) Apr. 24, 1966, prior to joining of the lakes; minimum contents since joining of the lakes, 65,300 ac-ft (80.6 hm³), Nov. 17, 1971 (elevation, 371.99 ft or 113.373 m).

REMARKS: Originally, Lake Tyler was formed by Whitehouse Dam. Deliberate impoundment began on Jan. 8, 1949 and the dam was completed on May 13, 1949. The construction of Mud Creek Dam began on Feb. 11, 1966, with deliberate impoundment beginning on Nov. 22, 1966, and final completion of the dam in January 1967. Whitehouse Dam is a rolled earthfill dam 4,708 ft (1,435 m) long, with an uncontrolled concrete spillway 200 ft (61 m) wide located 800 ft (240 m) from the left end of the dam. Mud Creek Dam is a rolled earthfill dam 4,700 ft (1,400 m) long, with an uncontrolled concrete spillway 300 ft (90 m) wide located near the center of the dam. On May 29, 1968, the lakes were joined through an interconnecting canal. The combined capacity of the two lakes is 80,900 ac-ft (99.7 hm³). A 20-inch (508-millimeter) conduit through the embankment of Mud Creek Dam serves as a low-flow service outlet. The dam is owned and operated by the City of Tyler.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1949	-	-	9360	11700	12940	12940	13060	12700	12700	14500	14760	15800
1950	20040	26680	28600	30200	36700	38460	38460	38020	38460	38020	38020	38240
1951	39340	41540	43400	43160	41760	40660	40660	39120	39340	39120	39560	40220
1952	41760	43400	43400	43400	43400	41980	40880	38900	36920	35600	36480	38020
1953	38900	40000	43160	43160	43160	41760	41540	41100	40220	39120	40220	42200
1954	43400	43160	43160	43160	43160	41760	39560	37580	35600	36260	37140	38240
1955	39560	42200	43400	43160	43400	41980	41320	40880	40220	38900	38020	38020
1956	38460	40440	40440	40000	42200	41100	39120	37580	35600	34280	34060	33840
1957	33840	34720	36040	45080	43640	43160	41980	40880	40440	43400	43640	43640
1958	43400	43400	43400	45080	43160	43160	42440	41320	43400	42920	42920	42920
1959	42920	43160	43160	43160	43400	42920	43160	41980	41320	41320	41540	43640
1960	43400	43640	43400	43160	42200	42680	41760	40880	40880	40880	42200	43880
1961	43400	43640	43880	43400	42680	43400	42440	41540	41980	41320	43160	43160
1962	43640	43640	43400	44360	42680	43160	42440	40660	40880	40880	41760	42440
1963	42920	43400	42920	42680	42200	41320	40220	38900	37580	35820	35160	35160
1964	35160	35380	36480	36260	35380	34280	32200	30800	30000	29200	29400	30200
1965	32400	36040	37360	37800	43160	42440	40440	38900	38020	37140	36920	37580
1966	38020	39120	39120	45080	43400	41980	40000	39340	39120	38460	38240	38460
1967	38680	38460	38240	40660	41540	39780	38900	36480	35380	34060	33400	34280
1968	37800	39780	41980	43400	81390	81680	79810	77110	78620	77720	80900	81140
1969	80900	81770	81820	82120	81140	78330	73830	70180	68320	67580	72650	80040
1970	81050	82020	81340	81490	79520	77720	74100	70400	69380	74420	74510	76360
1971	76250	78710	78710	79050	78520	75430	71700	69470	68370	66720	66200	70000
1972	76590	77820	78900	77770	75710	73420	71070	68590	67720	70310	72510	77110
1973	82310	81530	81820	82120	80560	81140	81240	78660	80900	81770	81870	81240
1974	82210	81630	81240	80800	80660	79380	76640	74610	81140	84910	81410	81990
1975	82080	81510	81410	82470	81650	81020	79050	76970	74510	73690	74100	75730
MAX	82310	82020	81820	82470	81650	81680	81240	78660	81140	84910	81870	81990
MIN	20040	26680	9360	11700	12940	12940	13060	12700	12700	14500	14760	15800
MEAN	49940	51030	49983	50902	52197	51413	49927	48280	48038	48086	48546	49761
NO.	26	26	27	27	27	27	27	27	27	27	27	27
DISTR												
OF MEAN	8.3%	8.5%	8.4%	8.5%	8.7%	8.6%	8.3%	8.1%	8.0%	8.0%	8.1%	8.3%

NECHES RIVER BASIN

08034500 Mud Creek near Jacksonville, Texas

LOCATION: Lat 31°58'35", long 96°09'38", Cherokee County, at the bridge on U.S. Highway 79, 0.6 mi (1.0 km) downstream from Caney Creek, 4 mi (6 km) downstream from the Missouri-Pacific Railroad Co. bridge, 6.9 mi (11.1 km) east of Jacksonville, and 25.9 mi (41.7 km) upstream from the mouth.

DRAINAGE AREA: 376 mi² (974 km²).

PERIOD OF RECORD: May 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 271.64 ft (82.796 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 186,950 ac-ft/yr (230.5 km³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 27,500 ft³/s (779 m³/s) Apr. 26, 1966 (gage height, 15.20 ft or 4.633 m); no flow at times.

Maximum stage since May 1864, 20 ft (6.1 m) in May 1908 and December 1913.

REMARKS: Records good. There is some regulation since 1948 by Lake Tyler (station 08034000), capacity 80,900 ac-ft (98.7 km³). There are several diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	15910	3360	182	0	0	0	13.0	1390	-
1940	2450	5850	3020	4550	3180	3740	4740	11560	5690	464	94230	71120	210594
1941	34000	31210	36900	23670	12160	14420	8410	2220	5120	14410	27630	34980	245130
1942	20290	17770	18340	56460	24590	20400	2530	3920	4690	2370	6640	12370	190570
1943	19520	9660	12380	8290	5940	11330	755	124	19.0	2940	2990	8760	82708
1944	39020	60930	44610	28490	143000	16680	1370	370	1630	756	6370	52430	395656
1945	70440	30900	85270	72910	12670	17440	59720	3070	2640	52020	15820	31830	454730
1946	71030	59830	48480	19640	66710	47660	8660	8750	8440	7960	85500	33890	466550
1947	46420	24840	51570	50860	54250	21330	3220	1080	2930	1920	5690	25800	289910
1948	25680	48670	32360	17280	32300	3060	1720	205	477	682	3790	4690	170914
1949	14870	15080	22790	22770	5410	4780	1730	945	397	8860	3710	6680	108022
1950	42810	44990	12160	13270	35580	27350	2850	958	1390	1070	1960	2300	186688
1951	5390	12170	13290	11120	6550	4330	1060	67.0	282	265	1270	3870	59664
1952	6530	44780	26000	35540	9420	5040	728	41.0	0	0	1030	4150	133259
1953	7220	7110	42880	13040	89100	1430	3620	935	1240	191	2330	10880	179976
1954	9150	7080	6100	5520	39840	1630	8.90	0	0	2050	6110	9030	86519
1955	11580	24370	28980	26540	10650	2780	1500	722	917	487	455	1350	110331
1956	2510	11440	4280	2280	46330	756	65.0	0	0	0	76.0	294	68031
1957	819	2820	5000	71400	56240	56910	1500	564	444	17340	79100	17010	309147
1958	31340	22110	15760	30880	71160	9060	4580	1540	10450	7760	4940	6990	216570
1959	7460	20860	12670	26370	108200	13730	5990	2990	1510	2240	4840	26690	233550
1960	40780	45270	45610	9710	3480	4230	2920	1450	5270	5230	12110	92520	268780
1961	79580	50290	61710	25840	11120	15760	6950	1810	6800	2860	9260	27590	299570
1962	35840	24530	21260	24730	23890	16200	11860	1620	2890	4660	5150	8630	181260
1963	9490	8400	11980	5390	2750	1190	701	337	204	73.0	461	2030	43006
1964	2560	3440	7820	3930	2200	1110	25.0	57.0	247	299	950	2440	25078
1965	7260	18670	13160	11830	31210	7720	557	127	376	262	453	1540	93165
1966	2710	5450	4780	124300	54960	2680	625	2370	2860	1530	2270	2970	207505
1967	3380	2720	2770	8380	2870	4548	469	37.0	355	96.0	480	1790	27887
1968	10920	11490	13620	25400	55540	10730	7190	847	2490	1290	5570	23040	168127
1969	9630	22140	69880	59620	37480	2720	272	105	238	469	11170	11950	225674
1970	15860	16510	41290	20010	4620	1140	309	128	781	3590	3890	5220	113348
1971	4340	7360	4620	3230	7150	291	103	199	283	299	815	6320	35010
1972	18110	7750	5220	1720	913	743	184	154	798	3360	8300	9540	56792
1973	14880	20370	37490	75250	12910	74370	17670	8100	23070	38390	25810	43870	392180
1974	53830	34500	22070	10830	11540	7620	989	565	22530	11710	59350	28500	264034
1975	25740	65600	23400	18300	30010	20160	5130	1600	883	1490	2260	3700	198353
MAX	79580	65680	85270	124300	143000	74370	59720	11560	23070	52020	94230	92520	466550
MIN	819	2720	2770	1720	913	291	8.90	0	0	0	13.0	294	25078
MEAN	22318	23529	25264	26926	30860	12390	4619	1610	3204	5389	13594	17247	186950
NO.	36	36	36	36	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	11.9%	12.6%	13.5%	14.4%	16.5%	6.6%	2.5%	.9%	1.7%	2.9%	7.3%	9.2%	100%

NECHES RIVER BASIN
08035000 Mud Creek at Ponta, Texas

LOCATION: Lat 31°53'25", long 96°06'20", Cherokee County, at the Texas and New Orleans Railroad Co. bridge, and 0.75 mi (1.2 km) west of Ponta.

DRAINAGE AREA: 481 mi² (1,245.8 km²).

PERIOD OF RECORD: May 1924 to September 1927.

GAGE: Inverted staff gage. Datum of gage is 280.2 ft (85.4 m) above mean sea level.

EXTREMES: Period of record (1924-27): Maximum discharge, 4,000 ft³/s (113.3 m³/s May 30, 1924 (gage height, -12.72 ft or -3.9 m); no flow during several periods.

Highest known flood for the past 40 years, -9.2 ft (-2.8 m) May 1908.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	44800	39800	1300	243	926	413	1240	2570	-
1925	11400	6420	4930	2140	977	104	111	60.0	33.0	2340	29600	8970	67085
1926	35300	13700	57000	43600	38500	9120	4690	319	139	163	691	18200	221422
1927	22200	30700	49700	61600	16000	8520	7440	938	300	-	-	-	-
MAX	35300	30700	57000	61600	44800	39800	7440	938	926	2340	29600	18200	221422
MIN	11400	6420	4930	2140	977	104	111	60.0	33.0	163	691	2570	67085
MEAN	22967	16940	37210	35780	25069	14386	3385	390	350	972	10510	9913	177872
NO.	3	3	3	3	4	4	4	4	4	3	3	3	2
DISTR OF MEAN	12.9%	9.5%	20.9%	20.1%	14.1%	8.1%	1.9%	.2%	.2%	.5%	5.9%	5.6%	100%

NECHES RIVER BASIN
08036500 Angelina River near Alto, Texas

LOCATION: Lat 31°40'10", long 94°57'24", Nacogdoches-Cherokee County line, at the bridge on State Highway 21, 0.4 mi (0.6 km) upstream from Allen Creek, 1.5 mi (2.4 km) upstream from Bingham Creek, and 7.5 mi (12.1 km) east of Alto.

DRAINAGE AREA: 1,276 mi² (3,305 km²).

PERIOD OF RECORD: October 1940 to March 1949 (fragmentary for 1941-42, 1944-49), March 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 204.30 ft (62.271 m) above mean sea level, datum of 1929. May 9, 1940 to Mar. 31, 1949, nonrecording gage on the bridge at the natural channel, 1,400 ft (427 m) to right at same datum. Feb. 18 to Sept. 15, 1959, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 27 years (1940-49, 1959-75), 663,544 ac-ft/yr (694.8 hm³/yr).

EXTREMES: Period of record (1940-49, 1959-75): Maximum discharge, 30,600 ft³/s (867 m³/s) Apr. 28, 1966 (gage height, 21.51 ft or 6.556 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 14, 15, 1964.

Maximum stage since at least 1805, about 22 ft (6.7 m) in May 1908, from information by local residents.

REMARKS: Records good. No diversion above station. The flow is partly regulated since May 1957 by Striker Creek Reservoir located 35.5 mi (57.1 km) upstream and Lake Tyler located 69.9 mi (112.5 km) upstream since January 1949.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	2030	-	-	-
1941	-	-	-	-	-	52290	40810	10630	12630	-	-	-	-
1942	-	54160	67700	-	-	-	17140	21300	40160	10700	20570	24040	-
1943	64950	35170	29820	32290	13990	20110	6170	1750	1040	4940	11930	23040	245200
1944	-	-	-	-	-	-	6790	3980	14090	4500	-	-	-
1945	-	-	-	-	-	46350	-	12600	8760	-	47600	-	-
1946	-	-	-	-	-	-	31600	10440	39740	24750	-	-	-
1947	-	-	-	-	-	49870	13080	5140	7970	5580	17310	57830	-
1948	63300	-	-	60370	-	11690	7290	1650	1810	1970	12280	22990	-
1949	-	-	68380	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	44900	90330	219800	45940	18230	15260	5350	10040	23630	75380	-
1960	125100	89400	145400	44270	20280	20850	19400	7210	10310	28600	43930	297300	852050
1961	271700	154500	200200	126600	39690	90060	47320	8850	33500	12380	37640	165800	1188240
1962	119000	106300	89100	55260	105800	49380	24670	16110	10780	14420	16710	28330	635860
1963	37920	31940	36480	25350	10410	7290	4450	3770	3390	4000	2460	6810	174270
1964	11160	14220	29960	20300	11200	7620	1510	1380	1340	1730	2010	4170	106600
1965	9320	34610	36350	99480	88690	36390	4110	2650	2270	1840	4710	16920	337360
1966	21600	41530	25280	230800	275700	19730	5380	6570	8260	3680	5100	8380	652010
1967	10850	8780	11250	28320	13080	19330	4270	1730	1070	342	1070	5070	105162
1968	56620	29790	49790	142800	167700	36200	58130	7080	27590	15070	29080	161600	781450
1969	57300	84090	284200	255900	177300	16750	4250	3420	3720	4560	45780	39990	977260
1970	67400	45480	121900	76740	25060	6120	4370	3290	4150	6030	17470	16880	394890
1971	13900	21430	19130	14650	43300	2040	1110	2530	2590	2200	3510	19100	145490
1972	66070	31230	22820	10250	7330	9210	2360	1380	962	10130	51050	49420	262212
1973	81780	76100	114600	191200	78400	123400	42850	22900	56500	144500	69430	183400	1185060
1974	223000	141600	83050	42080	40220	17090	4000	2840	44560	20590	108500	92520	820050
1975	92840	198100	69440	64710	137500	66490	22860	8860	4580	8820	14220	16930	705350
MAX	271700	198100	284200	255900	275700	123400	58130	22900	56500	144500	108500	297300	1188240
MIN	9320	8780	11250	10250	7330	2040	1110	1380	962	342	1070	4170	105162
MEAN	77434	66579	77488	84826	81969	34282	16340	7333	13885	14308	26438	62662	563544
NO.	18	18	20	19	18	22	24	25	25	24	23	21	17
DISTR													
OF MEAN	13.7%	11.8%	13.8%	15.1%	14.5%	6.2%	2.9%	1.3%	2.5%	2.5%	4.7%	11.1%	100%

NECHES RIVER BASIN

08037000 Angelina River near Lufkin, Texas

LOCATION: Lat 31°27'28", long 94°43'34". Angelina-Nacogdoches County line, at the bridge on U.S. Highway 59, 200 ft (61 m) upstream from Proabita Creek, 1.5 mi (2.4 km) downstream from Bayou Loco, 1.5 mi (2.4 km) upstream from the Southern-Pacific Railway Co. bridge, and 8 mi (13 km) north of Lufkin.

DRAINAGE AREA: 1,600 mi² [4,140 km²].

PERIOD OF RECORD: October 1923 to September 1934, August 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 184.72 ft (50.207 m) above mean sea level, datum of 1929. Oct. 29, 1923 to Jan 17, 1926, nonrecording gage at the Southern-Pacific Railway Co. bridge, 1.5 mi (2.4 km) downstream at datum 1.39 ft (0.424 m) lower; Jan. 18, 1926 to Sept. 30, 1934, nonrecording gage at the Lufkin-Nacogdoches Highway bridge, 1,400 ft (427 m) upstream at present datum.

AVERAGE DISCHARGE: 48 years (1923-34, 1939-75), 859,993 ac-ft/yr (1,060.4 hm³/yr).

EXTREMES: Period of record (1923-34, 1939-75): Maximum discharge, 36,200 ft³/s (1,080 m³/s) Feb. 24, 1932; maximum gage height, 18.65 ft (5.654 m) May 7, 1944; minimum discharge, 0.8 ft³/s (0.023 m³/s) Oct. 29, 30, 1956.

Flood in May 1884 reached a stage of 26.5 ft (8.08 m) and is the highest since at least that date.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	9240	21400	185000	-
1924	232000	172000	278000	114000	109000	268000	9590	2800	3000	2640	4360	10300	1205690
1925	28300	20800	18600	11100	6040	1420	1190	1310	1000	18600	509000	38200	655560
1926	78700	66100	221000	249000	112000	26800	23900	6070	1920	2620	5910	57800	851820
1927	76200	77800	244000	265000	74400	44600	22900	6210	1680	11600	11600	24600	860590
1928	27900	36300	119000	69000	35000	38700	14500	5660	1010	1760	19800	75600	444230
1929	122000	99400	105000	54600	115000	151000	15600	2160	3110	1310	20600	50300	740080
1930	104000	193000	109000	38900	202000	36400	3680	1200	1360	17000	20300	123000	849840
1931	151000	138000	126000	71400	113000	10200	5030	4720	1690	1330	5310	180000	807680
1932	559000	598000	258000	117000	49700	11100	6580	2750	3450	2960	5620	19400	1633560
1933	189000	103000	183000	169000	157000	26700	32100	20400	9340	5040	5000	17200	836780
1934	130000	101000	254000	170000	35100	6490	1290	615	643	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	1620	422	338	2400	43320	-
1940	36350	135100	40030	47790	57120	68010	28710	16560	33530	3530	303700	377300	1147730
1941	263900	142100	218000	108300	90020	76130	60740	14250	17310	88090	178600	154800	1412040
1942	104500	75310	94330	166100	145700	121000	25160	16670	50030	11850	20780	30920	862350
1943	74360	41410	33930	36610	15170	20440	7170	2680	1310	4060	12600	22130	271870
1944	168100	199400	221500	151800	636900	146000	11080	4740	18790	5820	24820	145700	1734650
1945	420700	142100	273600	347100	86450	45860	161900	17050	9890	131500	62420	93160	1791730
1946	278300	319100	229400	116500	202900	102200	46320	10590	39090	26080	215200	179800	1845480
1947	224300	152700	261400	209100	211400	75400	18530	6240	7450	6120	16640	73880	1263160
1948	72450	229400	140200	95360	89080	16710	8910	2000	2160	1950	11720	25370	695310
1949	73750	107400	100100	104600	39480	16720	11850	12050	9310	51650	37070	41880	605860
1950	195000	250600	90830	66850	186500	165100	30080	8620	11250	8730	12200	17740	1043500
1951	31220	51000	56650	75590	24540	14400	4350	1310	2200	2580	5140	19320	288300
1952	20620	86930	144300	112200	67080	24630	4530	1410	279	223	2300	16330	480832
1953	26890	58030	255800	59580	522400	29060	26980	10100	9110	2430	8060	42660	1051100
1954	48180	42700	33750	28880	99240	13640	1430	408	215	784	15050	25240	309517
1955	45540	84270	69820	128300	67220	35210	12540	14160	3790	3430	1940	6800	473020
1956	11320	49720	25670	36330	156600	6110	1410	385	241	8640	1020	2410	291302
1957	4350	13380	25810	165100	376700	164800	20470	9450	5160	163400	322400	145000	1416020
1958	158500	125300	106500	64840	264600	40070	18460	6780	101200	97130	21500	25790	1030670
1959	25110	85020	52900	95420	217300	49200	22560	21680	6350	11560	33090	84700	704890
1960	145600	113300	178700	57090	29340	20690	24120	8590	7590	31670	57080	350400	1024170
1961	321100	226600	272600	181000	58890	70120	75510	12350	45850	16780	34820	209400	1525020
1962	131900	154100	117900	67580	149700	55450	23590	19520	12940	15090	17020	30530	795320
1963	44530	37330	46130	40110	11800	9500	4610	4190	3510	3280	2550	7340	214880
1964	13200	16300	39120	48780	21150	10180	1510	2110	1480	1610	2440	5400	163280
1965	13090	39490	43050	130100	106800	57700	4890	3820	3530	1860	7230	24720	436280
1966	37050	60320	36640	135100	439000	42520	6420	10550	9970	4680	5970	11370	799590
1967	13040	13390	15210	31280	21010	30060	5830	2210	1270	431	668	5370	139369
1968	80710	38110	75290	213000	197400	75070	69130	17830	41980	18820	37340	204200	1068880
1969	98430	124200	357200	327600	234500	22530	4710	3630	4190	4520	29910	48370	1259790
1970	76670	49530	148900	85010	37420	7300	4430	3900	5200	6240	15310	15440	455350
1971	15910	18840	22800	15590	41800	3610	3430	2560	2790	2810	4640	27640	160420
1972	72380	40850	31460	16090	10520	8510	7640	1790	1010	11200	76880	84550	362880

NECHES RIVER BASIN
08037000 Angelina River near Lufkin, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	148900	107800	143600	205600	127400	140800	55410	28040	61390	188500	108600	228500	1544540
1974	272800	219800	111800	51210	43720	22500	4890	3080	45930	26670	147100	136000	1085500
1975	136100	294900	102300	88320	172700	91520	33000	12330	5570	8650	22010	21230	988630
MAX	559000	598000	357200	347100	636900	268000	161900	28040	101200	188500	509000	377300	1845480
MIN	4350	13380	15210	11100	6040	1420	1190	385	215	86.0	668	2410	139769
MEAN	117510	116111	130486	111460	133357	55323	20993	7691	12739	21630	52232	78461	859993
NO.	47	47	47	47	47	47	47	48	48	48	48	48	46
DISTR OF MEAN	13.7%	13.7%	15.2%	13.0%	15.5%	6.4%	2.4%	.9%	1.5%	2.5%	6.1%	9.1%	100%

NECHES RIVER BASIN

08037050 Bayou LaNana at Nacogdoches, Texas

LOCATION: Lat 31°38'58", long 94°38'28"; Nacogdoches County, at the bridge on Farm Road 1878 in Nacogdoches, and 14.5 mi (23.3 km) upstream from the mouth.

DRAINAGE AREA: 31.3 mi² (81.1 km²).

PERIOD OF RECORD: October 1964 to December 1976.

GAGE: Water-stage recorder. Prior to July 1974, concrete control. Datum of gage is 264.23 ft (80.537 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 21,246 ac-ft/yr (28.2 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 9,000 ft³/s (255 m³/s) Feb. 1, 1975 (gage height, 10.85 ft or 3.30 m); no flow at times.

Maximum stage since at least 1856, that of Feb. 1, 1975.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	0	3.60	54.0	-
1965	771	1540	3450	1210	4770	984	63.0	1.60	206	.03	31.0	12.30	14257
1966	3730	3040	1230	5660	5830	428	105	543	138	56.0	39.0	1.64	20963
1967	169	557	491	560	449	1270	90.0	1.10	0	.50	.04	25.0	3613
1968	4000	1410	2410	10620	5890	2290	4100	374	1100	177	1250	5960	39581
1969	1940	6560	8940	8280	6550	292	35.0	8.20	11.0	46.0	64.0	1.96	32922
1970	311	1140	2610	1130	499	62.0	.20	46.0	52.0	193	112	89.0	6244
1971	92.0	257	150	38.0	323	15.0	83.0	32.0	51.0	65.0	203	1330	2639
1972	2420	1340	653	622	257	252	1210	68.0	28.0	1180	3480	4900	16410
1973	9290	2360	6060	7750	1480	4320	386	253	1210	2070	5410	4090	44679
1974	9150	3280	1080	509	479	133	202	122	1470	813	5090	2530	24858
1975	4680	13650	2710	2090	2780	3450	495	199	102	183	329	285	30953
MAX	9290	13650	8940	10620	6550	4320	4100	543	1470	2070	5410	5960	44679
MIN	92.0	257	150	38.0	257	15.0	.20	1.10	0	0	.04	25.0	2639
MEAN	3323	3194	2708	3497	2664	1227	615	150	397	399	1334	1738	21246
NO.	11	11	11	11	11	11	11	11	11	12	12	12	11
DISTR OF MEAN	15.6%	15.0%	12.7%	16.5%	12.5%	5.8%	2.9%	.7%	1.9%	1.9%	6.3%	8.2%	100%

NECHES RIVER BASIN

08037500 Arenoso Creek near San Augustine, Texas

LOCATION: Lat 31°35'48", long 94°16'04", San Augustine County, 0.5 mi (0.8 km) downstream from the Nacogdoches and Southeastern Railroad Co. bridge, 4.5 mi (7.2 km) upstream from Attoyac Bayou, and 11 mi (17.7 km) northwest of San Augustine.

DRAINAGE AREA: 76 mi² (198.8 km²).

PERIOD OF RECORD: June 1938 to September 1940.

GAGE: Staff gage. Datum of gage not published.

EXTREMES: Period of record (1938-40): Maximum gage height, 12.12 ft (3.7 m) December 23, 1939; minimum discharge, 3.3 ft³/s (0.09 m³/s) September 14, 15, 1939.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	2660	2020	1150	986	677	2780	2840	-
1939	7310	14570	4770	3670	2440	1460	577	490	328	793	1350	9830	47588
1940	4070	13450	4960	8100	4710	2830	1660	2210	1030	-	-	-	-
MAX	7310	14570	4960	8100	4710	2830	2020	2210	1030	793	2780	9830	47588
MIN	4070	13450	4770	3670	2440	1460	577	490	328	677	1350	2840	47588
MEAN	5690	14010	4865	5885	3575	2317	1419	1283	781	735	2065	6335	48960
NO.	2	2	2	2	2	3	3	3	3	2	2	2	1
DISTR OF MEAN	11.6%	28.6%	9.9%	12.0%	7.3%	4.7%	2.9%	2.6%	1.6%	1.5%	4.2%	12.9%	100%

NECHES RIVER BASIN

08038000 Attoyac Bayou near Chireno, Texas

LOCATION: Lat 31°30'15", long 94°18'15", Nacogdoches-San Augustine County line, at the bridge on State Highway 21, 2.2 mi (3.5 km) upstream from Amaladeros Creek, 2.8 mi (4.5 km) east of Chireno, 5.4 mi (8.7 km) downstream from Arenoso Creek, and 41 mi (66 km) upstream from the mouth.

DRAINAGE AREA: 503 mi² (1,303 km²).

PERIOD OF RECORD: February 1924 to September 1925, August 1939 to October 1954, October 1955 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 169.58 ft (51.688 m) above mean sea level, datum of 1929, Jan. 24, 1924 to Aug. 29, 1925 and Sept. 6, 1957 to Oct. 27, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 39 years (1924-25, 1939-75), 309,570 ac-ft/yr (381.7 hm³/yr).

EXTREMES: Period of record (1924-25, 1939-54, 1955-75): Maximum discharge, 31,900 ft³/s (903 m³/s) Nov. 24, 1940 (gage height, 25.97 ft or 7.916 m); minimum, 0.8 ft³/s (0.023 m³/s) Aug. 26, 27, 1956.

Maximum stage since at least 1865, 29.8 ft (9.11 m) June 29, 1902, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	66500	78400	44800	51500	77800	5290	3480	3560	3150	4070	6550	-
1925	29100	13100	11800	6110	6760	1540	3390	1160	1190	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	1430	748	1610	3680	69200	-
1940	25550	115200	24970	31990	46610	29300	8900	8400	9110	2460	176000	154000	632490
1941	68850	61890	76350	23520	77230	88240	23150	11060	14910	41710	151100	57290	695300
1942	37930	33890	49940	54530	31470	48900	8270	31280	18960	5640	9720	13600	344130
1943	22880	17170	18150	9250	4920	3310	2560	2110	2540	3270	4540	11050	101750
1944	56170	53160	69040	46480	199000	29240	5730	5710	10360	3480	17480	60030	555880
1945	143900	42880	50970	79240	21940	9380	10430	4320	3620	20300	11760	28360	427100
1946	110600	109100	73610	27510	59680	30730	9980	7460	8460	46360	30980	30980	521950
1947	94850	32570	82770	69650	32860	11810	4280	2400	2270	2670	13580	21670	371380
1948	23710	84540	34160	33200	26060	4680	4000	1430	1390	1510	5570	9210	229460
1949	38490	35240	51150	36170	22280	8670	7320	4800	3870	47750	16090	39070	310900
1950	97160	48300	47250	22540	71560	87680	15610	5350	6370	4760	5950	9530	422060
1951	14830	23390	27250	21460	6850	3530	2070	1100	3840	1700	3470	17440	126930
1952	12430	25120	29340	42760	30530	9170	2930	1250	712	729	3720	8380	167070
1953	12610	37200	128300	48180	228400	7500	10480	6460	3620	2390	4560	12990	502690
1954	16420	13320	8750	9200	22380	2130	692	468	521	1810	-	-	-
1955	-	-	-	-	-	-	-	-	-	1690	2120	4050	-
1956	6060	22140	11750	30820	19260	2250	622	373	613	263	1380	2140	97671
1957	3970	12150	16810	94540	89530	40280	4950	1640	2860	19840	114200	38050	436820
1958	65450	26600	29620	15890	61050	18310	6040	18740	118700	22230	13880	11640	408150
1959	10850	40590	18980	46980	12170	10640	12090	6020	2910	6470	12490	41270	221460
1960	38080	49520	50050	15460	15490	10210	5380	7420	9470	13230	37750	87560	339620
1961	114300	59640	95220	43030	12680	17070	10290	5460	21440	5900	15480	101800	502310
1962	45810	31010	27990	26910	35510	9430	4480	2100	6890	3550	6110	10720	210510
1963	11610	14230	13530	24300	3990	3530	2260	1200	1210	1360	2690	5510	85420
1964	8940	7770	27390	28630	9910	5560	721	591	770	788	1800	4310	97180
1965	6410	16960	10890	33790	46580	20120	1130	846	6410	1810	2880	20840	168666
1966	23710	49380	12610	48670	82500	5050	1770	5780	3320	2820	2550	5590	243750
1967	5850	11390	8360	6330	4920	23190	2290	972	741	324	1080	4020	69467
1968	47740	10060	23980	108200	59240	25720	28570	6270	29870	11260	18150	87260	456320
1969	24040	63240	126100	89510	72050	9200	2690	1870	2030	1910	4780	7440	404860
1970	11940	14570	40720	17410	12510	3760	1740	1210	1980	5950	6750	4330	122870
1971	5650	7180	6550	4020	11340	1550	2260	4190	1260	2240	3490	17470	67200
1972	22840	16190	8290	6810	12270	3170	3490	1830	1590	5740	25370	39360	146950
1973	79480	32140	65730	84980	24310	43660	17700	10330	15960	36420	42170	88250	541130

NECHES RIVER BASIN

08038000 Attoyac Bayou near Chireno, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	132400	51970	27060	14630	15730	8890	5790	3430	17020	6070	69420	57840	410250
1975	65530	117300	41660	33820	69490	26460	14760	7480	6170	6360	12430	11110	412570
MAX	143900	117300	128300	108200	228400	88240	28570	31280	118700	47750	176000	154000	695300
MIN	3970	7180	6550	4020	3990	1540	622	373	521	263	1080	2140	67200
MEAN	42671	39638	41224	37333	43529	20045	6868	4933	9112	8148	23638	32431	309570
NO. OF MEAN	36	37	37	37	37	37	37	38	38	38	37	37	34
DISTR OF MEAN	13.8%	12.8%	13.3%	12.1%	14.1%	6.5%	2.2%	1.6%	2.9%	2.6%	7.6%	10.5%	100%

NECHES RIVER BASIN

08038500 Angelina River near Zavalla, Texas

LOCATION: Lat 31°12'41", long 94°17'40", Angelina-San Augustine County line, at the abandoned bridge on former State Highway 147 just downstream from Harvey Bayou, 3 mi (4.8 km) downstream from Attoyac Bayou and the State Highway 147 bridge, and 8.5 mi (13.7 km) northeast of Zavalla.

DRAINAGE AREA: 2,892 mi² (7,490.3 km²).

PERIOD OF RECORD: October 1951 to January 1965.

GAGE: Water-stage recorder. Datum of gage is 104.48 ft (31.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 1,299,850 ac-ft/yr (1,802.7 hm³/yr).

EXTREMES: Period of record (1951-65): Maximum discharge, 37,300 ft³/s (1,056.3 m³/s) May 18, 1953 (gage height, 27.72 ft or 8.4 m); minimum, 22.0 ft³/s (0.62 m³/s) September 22-24, 1954 and October 5-6, 1956.

Maximum stage since at least 1863, 29.4 ft (8.96 m) in June 1902.

REMARKS: Records good. Prior to August 1956, the Southland Paper Mills pumped about 22.0 ft³/s (0.62 m³/s) from wells, of which about 18.0 ft³/s (0.51 m³/s) was later discharged into Mill Creek, 20 mi (32.2 km) above the station. Since August 1956, about 28.0 ft³/s (0.79 m³/s) is pumped from wells and about 24.0 ft³/s (0.68 m³/s) is discharged into Mill Creek. This discharge is continuous and fairly constant.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	-	-	-	-	-	-	4920	9060	38910	-
1952	43490	121600	233600	200400	192500	62210	11770	4980	2110	1990	8060	30800	913510
1953	57180	132600	486200	132900	1165000	106600	53360	26250	16170	6090	14100	65240	2261690
1954	85150	74840	50440	50870	158100	33370	5350	2100	1590	3210	22740	29400	517160
1955	53570	147000	107900	209800	102400	76520	16560	29480	7980	8210	5150	13380	777950
1956	20810	98360	51920	99430	188600	14940	4190	2320	2400	1680	3640	5370	493660
1957	8510	35270	67420	206600	744900	222600	42420	16140	10270	163400	553800	301600	2372930
1958	296800	223900	161700	96200	402000	70570	41330	17530	251200	238600	52630	53550	1906010
1959	48610	163100	120000	241800	260400	84850	54010	38770	13730	24060	55590	144200	1249320
1960	225100	214500	322300	92600	68150	42520	35770	20010	19800	46070	107500	596000	1790320
1961	603100	332500	447300	367400	94520	61510	112200	24460	83220	31640	46320	424400	2628570
1962	237400	251200	173800	113900	331300	70720	34030	23420	24120	20040	25210	58750	1363890
1963	79740	71030	89410	84830	25210	19430	11610	7470	6260	5700	7780	17190	425660
1964	32190	36030	127000	149000	84330	22900	5060	5230	3890	4490	4910	12790	487820
1965	19470	-	-	-	-	-	-	-	-	-	-	-	-
MAX	603100	332500	486200	367400	1165000	222600	112200	38770	251200	238600	553800	596000	2628570
MIN	8510	35270	50440	50870	25210	14940	4190	2100	1590	1680	3640	5370	425660
MEAN	129380	146302	187615	157364	293647	68365	32897	16782	34057	40007	65464	127970	1299850
NO.	14	13	13	13	13	13	13	13	13	14	14	14	13
DISTR													
OF MEAN	10.0%	11.3%	14.4%	12.1%	22.6%	5.3%	2.5%	1.3%	2.6%	3.1%	5.0%	9.8%	100%

NECHES RIVER BASIN
08039000 Ayish Bayou at San Augustine, Texas

LOCATION: Lat 31°31'50", long 94°06'55", San Augustine County, at the San Augustine-Nacogdoches Highway bridge, 0.25 mi (0.4 km) west of the courthouse in San Augustine, and 5 mi (8.0 km) above the mouth of Bernard Creek.

DRAINAGE AREA: 17.2 mi² (44.6 km²).

PERIOD OF RECORD: August 1924 to August 1925.

GAGE: Staff gage. Datum of gage is 283.36 ft (88.4 m) above mean sea level.

REMARKS: Records poor.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	267	321	-	-	-	-
1925	-	-	-	414	-	119	584	96.0	-	-	-	-	-
MAX	-	-	-	414	-	119	584	267	321	-	-	-	-
MIN	-	-	-	414	-	119	584	96.0	321	-	-	-	-
MEAN	-	-	-	414	-	119	584	182	321	-	-	-	1620
NO.	0	0	0	1	0	1	1	2	1	0	0	0	0
DISTR OF MEAN	.0%	.0%	.0%	25.6%	.0%	7.3%	36.0%	11.2%	19.8%	.0%	.0%	.0%	100%

NECHES RIVER BASIN
08039100 Ayish Bayou near San Augustine, Texas

LOCATION: Lat 31°23'46", long 94°08'03". San Augustine County, at the bridge on State Highway 103, 3.0 mi (4.8 km) upstream from Turkey Creek, and 9.5 mi (15.3 km) south of San Augustine.

DRAINAGE AREA: 89.0 mi² (230.5 km²).

PERIOD OF RECORD: March 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 190.22 ft (57.979 m) above mean sea level, datum of 1929. Prior to June 2, 1969, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 59,285 ac-ft/yr (73.1 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 13,200 ft³/s (374 m³/s) Apr. 9, 1968 (gage height, 16.82 ft or 5.127 m); no flow at times.

Maximum discharge since October 1957, 15,900 ft³/s (450 m³/s) Sept. 21 or 22, 1968 (gage height, 17.5 ft or 5.33 m, from floodmarks).

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	3740	16500	2430	833	5970	1320	326	1650	1400	8660	-
1960	10550	13160	6540	2950	1470	1820	1870	1070	1160	881	7420	16700	65591
1961	27850	12120	27250	9870	1790	1820	1090	645	5510	700	2150	18670	109465
1962	7550	4120	4390	3620	6950	770	144	26.0	678	136	560	4310	33254
1963	3140	4450	3850	4040	886	1260	264	166	12.0	.80	299	812	19180
1964	2670	2260	13640	17170	1800	380	11.0	111	76.0	52.0	184	712	39066
1965	633	7480	3950	2190	1410	273	36.0	0	1050	73.0	349	5280	22724
1966	6450	21120	3090	13420	4180	218	46.0	253	776	707	308	1110	51678
1967	1480	1960	1920	1380	1310	2220	185	2.80	.08	0	61.0	4.96	11015
1968	6970	2360	7790	34440	6330	6970	4920	788	11150	877	6930	18890	108415
1969	5780	13230	25110	15990	14370	1250	100	30.0	108	110	300	565	76943
1970	1180	1960	7110	2350	5900	462	92.0	42.0	100	372	327	335	20230
1971	406	589	658	249	492	60.0	302	572	243	245	732	7120	11668
1972	7890	3440	3170	2240	3440	112	216	93.0	232	1210	2100	9750	33893
1973	20170	9070	17810	18470	6650	16540	2050	1180	2480	6910	13140	22840	137310
1974	46370	11130	6000	6910	1970	1840	195	256	1840	871	14670	19450	111502
1975	16970	16620	9580	4980	29480	4610	4900	1450	754	1080	2160	2260	94844
MAX	46370	21120	27250	34440	29480	16540	5970	1450	11150	6910	14670	22840	137310
MIN	406	589	658	249	492	60.0	11.0	0	.08	0	61.0	335	11015
MEAN	10379	7817	8565	9222	5345	2438	1317	471	1559	934	3123	8115	59285
NO.	16	16	17	17	17	17	17	17	17	17	17	17	16
DISTR OF MEAN	17.5%	13.2%	14.4%	15.6%	9.0%	4.1%	2.2%	.8%	2.6%	1.6%	5.3%	13.7%	100%

NECHES RIVER BASIN

08039300 Sam Rayburn Reservoir near Jasper, Texas

LOCATION: Lat 31°03'38", long 94°06'21", Jasper County, in the powerhouse-intake structure of Sam Rayburn Dam on the Angulina River, 10 mi (16 km) northwest of Jasper, and 25.2 mi (40.5 km) upstream from the mouth.

DRAINAGE AREA: 3,449 mi² (8,933 km²).

PERIOD OF RECORD: January 1965 to December 1975.

GAGE: Stevens type AP recording transmitter. Datum of gage is at mean sea level. Prior to Apr. 20, 1965, nonrecording gage at same site and datum.

EXTREMES: Period of record (1965-75): Maximum contents, 3,881,000 ac-ft (4,785.3 hm³) Feb. 7, 1974 (elevation, 172.17 ft or 52.477 m); minimum contents since the conservation storage was first reached in 1966, 2,166,000 ac-ft (2,658.3 hm³) Oct. 14, 1974 (elevation, 157.33 ft or 47.964 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 19,430 ft (5,920 m) long, including spillway and dikes, with a capacity of 2,852,600 ac-ft (3,517.2 hm³). The dam was completed and deliberate impoundment began on Mar. 29, 1965. The emergency spillway is an uncontrolled broad-crested weir 2,200 ft (670 m) wide on the right bank, 7,000 ft (2,100 m) to the right of the outlet works, designed to discharge 125,300 ft³/s (3,550 m³/s) at maximum flood design. The flood-control outlet works consist of two 10- by 20-foot (3- by 6-m) rectangular concrete-lined conduits controlled by two 10- by 20-foot (3- by 6-m) tractor-type service gates and one 10- by 20-foot (3- by 6-m) tractor-type emergency gate. Water for the turbines is admitted through four 18- by 26-foot (5- by 8-m) penstocks and controlled by two wheeled-leaf type head-gates. The reservoir is operated for flood control and power generation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1965	15480	83100	87720	231700	345200	466400	453900	428400	444800	435700	444100	585400
1966	715000	1124000	1193000	1328000	1968000	1987000	1900000	1850000	1828000	1776000	1714000	1707000
1967	1716000	1766000	1791000	1859000	1923000	1947000	1894000	1793000	1719000	1675000	1659000	1687000
1968	1886000	1944000	2138000	2857000	2858000	2883000	2812000	2654000	2711000	2584000	2522000	2651000
1969	2535000	2630000	3114000	3169000	3293000	2779000	2670000	2518000	2420000	2363000	2330000	2373000
1970	2418000	2488000	2669000	2706000	2757000	2683000	2578000	2493000	2439000	2462000	2456000	2464000
1971	2462000	2491000	2482000	2405000	2426000	2343000	2271000	2230000	2195000	2203000	2200000	2354000
1972	2529000	2609000	2734000	2744000	2737000	2578000	2501000	2397000	2306000	2279000	2355000	2544000
1973	2874000	2841000	3056000	3200000	2918000	3206000	2849000	2714000	2625000	2835000	2886000	3237000
1974	3759000	3446000	2918000	2849000	2766000	2585000	2383000	2226000	2175000	2226000	2639000	2935000
1975	2880000	3193000	2921000	2910000	2950000	2898000	2669000	2349000	2171000	2079000	2128000	2178000
MAX	3759000	3446000	3114000	3200000	3293000	3206000	2849000	2714000	2711000	2835000	2886000	3237000
MIN	15480	83100	87720	231700	345200	466400	453900	428400	444800	435700	444100	585400
MEAN	2162680	2237736	2282156	2387155	2449200	2395945	2270991	2150945	2093982	2083427	2121191	2246855
NO.	11	11	11	11	11	11	11	11	11	11	11	11
DISTR												
OF MEAN	8.0%	8.3%	8.5%	8.9%	9.1%	8.9%	8.4%	8.0%	7.8%	7.8%	7.9%	8.4%

NECHES RIVER BASIN

08039500 Angelina River at Horger, Texas

LOCATION: Lat 31°02'08", long 94°07'48", Jasper County, 0.4 mi (0.6 km) downstream from Jordans Creek, 4 mi (6 km) northeast of the abandoned town of Horger, and 7.6 mi (12.2 km) downstream from Sam Rayburn Dam.

DRAINAGE AREA: 3,486 mi² (9,029 km²).

PERIOD OF RECORD: April 1928 to March 1951, March 1958 to September 1973 (1958-65 medium and high-water records only).

GAGE: Water-stage recorder. Auxiliary water-stage recorder located 3.2 mi (5.1 km) downstream. Datum of gage is 68.54 ft (20.89 m) above mean sea level, datum of 1929. Mar. 7, 1928 to Apr. 16, 1951, nonrecording gage, and Feb. 19, 1958 to July 13, 1962, water-stage recorder, 4.3 mi (7.7 km) downstream at same datum; July 14, 1962 to Oct. 16, 1963, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 38 years (1928-51, 1958-62, 1965-73), 2,052,894 ac-ft/yr (2,531.2 hm³/yr).

EXTREMES: Period of record (1928-51, 1958-73): Maximum discharge, 49,900 ft³/s (1,410 m³/s) May 6, 1944, gage height, 36.90 ft (11.25 m); minimum observed prior to closure of Sam Rayburn Dam, 13 ft³/s (0.368 m³/s) Sept. 22, 1937; no releases at times.

Maximum stage since 1885, 39.5 ft (12.0 m), at site 4.3 mi (7.7 km) downstream in August 1916, discharge, 82,000 ft³/s (2,320 m³/s).

REMARKS: Discharges since March 1965 are releases from Sam Rayburn Reservoir. Local runoff between the dam and this gage is not included in these records.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	193000	65200	102000	33800	19700	3620	5310	23400	86700	-
1929	186000	217000	290000	136000	593000	583000	84600	9960	9340	3470	92800	120000	2305170
1930	395000	433000	250000	105000	176000	142000	13000	5260	6960	67000	57900	311000	1962120
1931	335000	303000	312000	164000	237000	25300	13200	11300	5580	2750	22200	333000	1764330
1932	1010000	1120000	695000	204000	89800	25200	15100	10600	7260	5670	7260	65800	3255690
1933	212000	305000	414000	347000	242000	107000	201000	144000	32400	12500	10700	33200	2060800
1934	395000	419000	646000	424000	121000	26400	9410	4930	3960	5370	33380	210100	2298550
1935	252300	187500	199300	185800	1123000	257700	80030	15440	12230	9540	65930	324400	2683170
1936	94290	95370	90590	36510	77300	37010	125300	25220	7220	5940	8430	58890	662070
1937	461900	271800	260000	209900	40780	25760	8550	5840	8100	18310	21290	136300	1468530
1938	277500	205400	246000	720700	165500	49080	39980	39090	8300	5500	20320	28150	1805520
1939	233900	394000	299000	100800	68030	63540	9300	5840	3110	3970	9370	196900	1387760
1940	193500	501900	127400	198700	180300	153900	58520	33530	45580	9650	326200	1162000	2983180
1941	651800	354400	573700	209800	353500	325500	132300	42670	41570	126100	704600	340500	3856440
1942	260300	196300	285000	406800	297200	214300	74740	136700	87770	25890	37340	46000	2068340
1943	163000	94370	82790	64860	38070	28750	16690	8530	5700	8380	17970	27830	556940
1944	243800	341400	419100	398400	1547000	404300	23300	13080	45490	12740	49800	326500	3824910
1945	879200	531800	478800	816800	220600	77410	187800	68070	19470	165700	84990	178200	3705840
1946	688100	685500	569100	345700	371100	393800	94020	33690	59400	45110	389900	331300	4206720
1947	729900	276400	538500	321100	305600	200400	38200	13660	10470	11460	49960	149600	2645250
1948	138900	464300	310800	268100	150100	45780	18070	5900	6120	5400	32850	44520	1490840
1949	202400	284700	349700	310100	154000	81060	33920	28140	17750	172200	99770	275200	2088940
1950	759700	650200	372800	137100	469700	628700	72510	24200	27940	22580	27290	37610	3230330
1951	77020	106900	160300	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	215200	136600	448900	-	-	-	-	-	-	-	-
1959	-	225000	168500	364200	303400	-	-	-	-	-	-	-	-
1960	331400	319100	409300	109400	-	-	-	-	-	-	149400	643600	-
1961	839900	506800	610900	466100	-	-	-	-	-	-	-	468300	-
1962	312900	288800	207200	142300	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	1640	8100	5240	-
1966	1250	379	504	36020	4610	15140	69380	63100	53450	62140	59940	32750	398209
1967	18170	404	10340	16230	11260	41130	35470	69600	37000	19290	2920	14330	275780
1968	4730	15720	5370	29250	335000	211800	165100	148100	44060	127200	155700	225900	1467130
1969	251900	219700	252500	525100	480100	561800	75310	97830	67110	38950	42860	35870	2649030
1970	42180	27850	89300	98050	65500	46530	67660	46170	40200	23270	11870	11200	569780
1971	18770	569	25130	68290	34770	54510	41430	31570	22440	6660	5290	6680	316109
1972	34280	6040	4480	51940	50870	136600	70110	94330	88990	39210	34030	39660	650540
1973	115200	247500	245000	372100	463900	141500	436600	137000	179500	-	-	-	-
MAX	1010000	1120000	695000	816800	1547000	628700	436600	148100	179500	172200	704600	1162000	4206720
MIN	1250	404	504	16230	4610	15140	8550	4930	3110	1640	2920	5240	275780
MEAN	317976	299907	283615	242215	281336	167939	73755	44937	32519	34481	83243	190971	2052894
NO.	34	35	36	36	33	31	31	31	31	31	32	33	29
DISTR													
OF MEAN	15.5%	14.6%	13.8%	11.8%	13.7%	8.2%	3.6%	2.2%	1.6%	1.7%	4.1%	9.3%	100%

NECHES RIVER BASIN

08040000 B. A. Steinhagen Lake at Town Bluff, Texas

LOCATION: Lat 30°47'43", long 94°10'48", Tyler County, 70 ft (21 m) upstream from the outlet structure of Town Bluff Dam on the Neches River, and 0.4 mi (0.6 km) north of Town Bluff.

DRAINAGE AREA: 7,573 mi² (19,614 km²).

PERIOD OF RECORD: April 1951 to December 1975. Prior to October 1997, published as "Dam & Reservoir at Town Bluff".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 25, 1954, at site 490 ft (149 m) upstream at same datum.

EXTREMES: Period of record (1951-75): Maximum contents, 128,400 ac-ft (158 hm³) May 22, 1953 (elevation, 85.21 ft or 25.972 m); no storage Sept. 18 to Oct. 13, 1954.

REMARKS: The lake is formed by a rolled earthfill dam with concrete spillway sections with a capacity of 94,200 ac-ft (116.1 hm³). The total length of the dam is 6,698 ft (2,042 m), including a concrete spillway and nonoverflow section. Deliberate impoundment of water began on Apr. 16, 1951 and the dam was completed in June 1951. The uncontrolled emergency spillway is 6,100 ft (1,860 m) long. A 328-foot (99-m) gated service spillway with six 40- by 35-foot (12- by 11-m) tainter gates is located near the right end of the dam. The capacity of the spillways at maximum flood design is 219,300 ft³/s (6,180 m³/s). The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1951	-	-	0	33370	66440	38930	473	13.0	7460	3990	11740	13570
1952	10960	11320	93160	80060	68480	69780	50530	4350	562	499	5260	6510
1953	3950	3530	12880	90740	54850	98990	93160	48960	22730	15810	30080	92340
1954	85910	90470	95760	96880	94390	69900	17950	1920	0	7520	70890	88750
1955	91130	86290	93560	93560	91270	83130	73620	54030	39760	28890	12980	27360
1956	63840	90200	90740	92480	93700	75080	28890	1260	1960	914	9990	30140
1957	49480	93160	93160	84000	92750	89020	93560	81890	87840	92880	78020	82140
1958	82630	84890	89810	89810	89150	97580	75540	47100	85010	87710	71440	84130
1959	88230	83130	88880	84130	87060	94110	88620	78850	51940	84130	58840	69680
1960	95350	90740	93430	100400	62400	95480	72790	87710	97720	50440	55790	86040
1961	91540	76130	75540	95480	95210	97160	94110	73020	70220	64250	80660	81520
1962	87970	87580	86420	94800	91270	93290	77190	57200	86940	90600	85140	86420
1963	91800	88360	92480	92480	93560	94390	76830	44780	57780	36440	55880	79210
1964	90870	91270	95480	91000	94110	72910	37230	29570	28030	25890	37890	74620
1965	71220	88880	88880	67190	86550	73020	24190	29320	24470	19370	36370	91540
1966	87450	92210	67400	74850	95210	69900	46840	85520	91540	83750	91940	86290
1967	78850	90200	67400	85910	73020	67940	73020	88360	81400	77780	68260	91540
1968	90470	86040	89540	78850	84130	88880	85780	70780	88880	89020	89540	82260
1969	84130	75300	93430	84640	86040	96180	80910	53930	36580	11170	45130	83740
1970	72580	78260	81660	89580	81280	57200	64400	68740	58960	80700	85690	77100
1971	77800	52030	51470	59320	72340	57110	33880	59320	72230	74780	81040	86460
1972	94830	86980	88150	86080	76290	92170	70140	72230	89970	78030	92040	89710
1973	92170	91400	89710	70720	89710	81270	91520	96270	89580	88670	94390	50090
1974	97140	57200	31990	85170	78140	84780	86720	81920	68120	75010	83610	54340
1975	79420	66450	80790	92620	71890	86040	80910	72120	46180	69890	49570	55330
MAX	97140	93160	95760	100400	95210	98990	94110	96270	97720	92880	94390	92340
MIN	3950	3530	0	33370	54850	38930	473	13.0	0	499	5260	6510
MEAN	77488	76751	77269	83765	82778	80970	64760	55567	55434	53525	59287	70033
NO.	24	24	25	25	25	25	25	25	25	25	25	25
DISTR OF MEAN	9.3%	9.2%	9.2%	10.0%	9.9%	9.7%	7.7%	6.6%	6.6%	6.4%	7.1%	8.4%

NECHES RIVER BASIN

08040500 Neches River at Town Bluff, Texas

LOCATION: Lat 30°47'36", long 94°10'28", Jasper-Tyler County line, 0.3 mi (0.5 km) downstream from Town Bluff Dam, 0.6 mi (0.8 km) northeast of Town Bluff, 2.5 mi (4.0 km) upstream from Walnut Run, and 8 mi (13 km) downstream from Wolf Creek.

DRAINAGE AREA: 7,573 mi² (19,614 km²).

PERIOD OF RECORD: April 1951 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 21, 1953, water-stage recorder, and May 21, 1953 to Dec. 3, 1954, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 25 years, 3,226,850 ac-ft/yr (3,978.8 hm³/yr).

EXTREMES: Period of record (1951-75): Maximum discharge, 90,900 ft³/s (2,570 m³/s) May 21, 22, 1953 (elevation, 32.85 ft or 25.263 m); no flow at times due to regulation by B. A. Steinhagen Lake.

Flood of May 1884, stage 86.8 ft or 26.46 m (discharge 120,000 ft³/s or 3,400 m³/s), is the highest since at least that date, from information by the Corps of Engineers.

REMARKS: Records fair. The flow is regulated since 1951 by B. A. Steinhagen Lake located 0.3 mi (0.5 km) upstream and since 1965 by Sam Rayburn Reservoir (station 08039300) located 37.9 mi (61.0 km) upstream. There are some diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	298000	96680	81080	64740	17690	21760	21720	16940	72850	-
1952	63440	257100	374800	553900	642700	195700	67590	55870	14650	7560	17750	109200	2373260
1953	238000	381100	856300	400500	2960000	432500	153600	118900	64560	23700	20730	103600	5753490
1954	222200	134300	91010	174800	443200	145400	59580	24030	11930	5420	15610	66070	1392650
1955	151000	423200	229500	646100	210000	167000	46640	76100	31310	27260	26100	18330	2052540
1956	18510	229600	110000	194200	278500	50910	53630	31880	7380	7560	1900	1140	985210
1957	7360	23600	207100	389900	1900000	492600	90000	52390	29070	293000	1100000	815600	5400620
1958	891700	542200	385200	247600	854900	103200	101800	72250	333600	426300	119900	93010	4171660
1959	95880	404400	301100	680900	585900	312500	202200	127900	60250	38060	139900	327400	3276390
1960	573200	647600	748800	216000	205000	97970	127700	42730	29470	179400	245100	1117000	4229970
1961	1580000	925900	1087000	762600	194700	132100	293900	82690	230500	70120	100800	672200	6132510
1962	489600	457700	372400	251400	726000	194200	91020	57750	22730	36280	70920	180100	2950100
1963	224000	210500	208700	176600	73430	57660	50750	46150	19460	30810	15560	41760	1156380
1964	97790	112700	583600	426500	321700	81400	46480	18640	12050	11450	5590	8040	1525940
1965	36900	99040	202800	208000	139100	221800	77150	34120	38050	14440	7680	134700	1213780
1966	157800	437900	121100	124300	758600	142400	116000	54990	79830	108900	67140	76340	2245300
1967	74210	37430	73100	125500	128900	118600	55120	57460	44360	29290	25110	32700	801780
1968	184700	141200	199300	668000	745900	630300	455300	214200	88250	162600	222300	504500	4216550
1969	421900	472500	871400	1203000	1387000	695700	112200	137600	96420	72160	51890	86430	5608200
1970	160600	118800	280700	266000	228000	86560	72410	47530	59350	47690	67530	62800	1497970
1971	58540	56360	72400	83900	61690	76210	69250	20800	18600	22920	15050	137500	693220
1972	168200	118600	134800	138900	182100	143600	111000	103800	89670	74260	105300	173400	1543630
1973	433100	511500	695300	1122000	997800	897100	713900	229300	395800	440800	628700	896600	7961700
1974	1193000	1155000	953200	339900	281000	250000	222500	190000	238300	122400	387900	568500	5901700
1975	801900	919600	761800	455600	931800	490600	442300	395200	222500	174500	94570	85150	5775520
MAX	1580000	1155000	1087000	1203000	2960000	897100	713900	395200	395800	440800	1100000	1117000	7961700
MIN	7360	23600	72400	83900	61690	50910	46480	17690	7380	5420	1900	1140	693220
MEAN	348480	367410	405050	406164	613384	251884	155590	92399	90358	97944	142799	255397	3226859
NO.	24	24	24	25	25	25	25	25	25	25	25	25	24
DISTR													
OF MEAN	10.8%	11.4%	12.6%	12.6%	19.0%	7.8%	4.8%	2.9%	2.8%	3.0%	4.4%	7.9%	100%

NECHES RIVER BASIN

08041000 Neches River at Evadale, Texas

LOCATION: Lat 30°21'22", long 94°05'38", Jasper-Hardin County line, at the bridge on U.S. Highway 96 at Evadale, 0.8 mi (1.3 km) upstream from Mill Creek, and 16 mi (26 km) upstream from Village Creek.

DRAINAGE AREA: 7,951 mi² (20,593 km²).

PERIOD OF RECORD: July 1904 to December 1906, April 1921 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 8.26 ft (2.515 m) above mean sea level, datum of 1929. July 1, 1904 to Dec. 31, 1906, nonrecording gage on the Gulf, Colorado, and Santa Fe Railway Co. bridge at site 1.2 mi (1.9 km) downstream at datum 5.50 ft (1.676 m) lower; Apr. 1, 1921 to Dec. 7, 1948, nonrecording gages at site 1.2 mi (1.9 km) downstream at present datum; Dec. 8, 1948 to Nov. 8, 1963, water-stage recorder at site 1.2 mi (1.9 km) downstream at present datum.

AVERAGE DISCHARGE: 58 years (1904-06, 1921-75), 4,418,539 ac-ft/yr (5,448.0 hm³/yr).

EXTREMES: Period of record (1904-06, 1921-75): Maximum discharge, 92,100 ft³/s (2,510 m³/s) May 11, 1944 (gage height, 23.58 ft or 7.187 m, from floodmark), at site then in use; minimum daily, 63 ft³/s (1.78 m³/s) Nov. 26-28, 1956.

Flood in May 1884 (stage 26.2 ft or 7.99 m at former site, discharge, 125,000 ft³/s or 3,540 m³/s), was the highest since at least 1884. Stage by the Gulf, Colorado, and Santa Fe Railway Co.

REMARKS: Records fair. The flow is regulated since 1951 by B. A. Steinhagen Lake (station 08040000) located 68.1 mi (93.5 km) upstream, and since 1965 by Sam Rayburn Reservoir (station 08038300) located 95.7 mi (154.0 km) upstream. There are several diversions upstream for municipal use.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1904	-	-	-	-	-	-	63160	54020	27550	17910	12460	65230	-
1905	321900	425100	775700	1089000	1520000	581000	785700	329000	58690	37260	248500	347200	6519050
1906	738500	426000	315400	335900	238000	136700	119200	159800	47040	231100	66150	165200	2978990
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	1029000	1008000	263700	619700	81360	50740	31470	36730	98570	-
1922	217000	523600	1158000	2459000	1775000	398200	126800	91150	37280	26170	92180	91720	6996100
1923	196400	739800	1237000	2408000	1234000	303500	93820	46990	154900	125000	219000	1410000	8168410
1924	1230000	931000	1520000	702000	732000	1630000	98300	34700	25800	28000	23700	47600	7003100
1925	235000	119000	89400	62000	49800	24200	17400	11100	12300	166000	1160000	316000	2262200
1926	666000	304000	725000	1280000	811000	300000	227000	111000	47700	31700	56300	258000	4817700
1927	834000	545000	1110000	1070000	714000	255000	278000	77500	24900	53900	43200	104000	5109500
1928	124000	131000	416000	461000	170000	218000	82400	58500	19400	18400	51000	132000	1881700
1929	366000	425000	587000	379000	1180000	2060000	163000	47600	36500	24600	164000	226000	5658700
1930	670000	944000	542000	295000	288000	459000	42900	22000	25200	145000	120000	592000	4145100
1931	726000	589000	682000	392000	528000	85700	44400	32800	22000	13900	38300	522000	3668100
1932	1750000	1980000	1920000	427000	229000	97800	49200	30000	27100	22600	22700	175000	6729600
1933	421000	650000	848000	643000	456000	222000	176000	327000	71400	31100	28300	64000	3937800
1934	574000	966000	1080000	994000	336000	67200	25500	17700	13800	19120	61590	407100	4562010
1935	552500	451700	499200	381500	2385000	971800	157500	63380	59370	34460	162900	749100	6468410
1936	306000	244900	211400	106000	187700	237700	375000	56740	43470	27570	34700	152700	1988380
1937	819300	604000	478800	468000	119700	77180	32400	20140	35790	54650	78870	213600	3002380
1938	597200	491700	451300	1305000	412800	109200	75670	89070	25250	15700	49630	67430	3689950
1939	526100	705200	741300	266800	126000	155200	34100	20800	12550	11650	23070	155600	2778370
1940	496200	811300	252500	358300	364200	415300	226700	126100	78380	28510	311900	2739000	6208390
1941	1436000	722300	1144000	564900	805000	760900	457300	109100	127400	260100	1303000	633000	8323000
1942	545500	399300	589600	762600	721200	509900	250600	237900	224100	68200	88760	112700	4508860
1943	407100	217600	185300	194500	136700	153300	103700	56890	22930	28260	69430	88130	1663880
1944	509900	765400	923100	796400	3065000	1109000	90770	36870	110500	36280	88580	648100	8179900
1945	1576000	1195000	937800	1997000	537500	217000	273700	227300	71700	299400	242500	418200	7993100
1946	1163000	1808000	1271000	909300	787900	1032080	342300	90070	168700	145100	909300	867000	9493670
1947	1469000	673400	1079000	688500	642500	562600	131400	42330	29570	31720	90470	321400	5762090
1948	297300	660100	734400	552700	323100	182500	53130	20300	18550	14840	72880	84270	3214070
1949	364900	647300	768200	831000	471400	194500	84170	66670	41180	400200	256400	634600	4760520
1950	1526000	1300000	1128000	299100	926200	1458000	176800	64440	62550	57170	60220	79400	7137880
1951	150600	173700	246300	374900	109500	86580	77930	21990	39890	32350	21050	84240	1419030
1952	101800	323200	430500	544500	703800	287400	81720	67280	20980	11060	17110	105900	2695250
1953	249900	376100	847700	441700	2877000	666400	139600	120100	66800	28940	25470	104900	5944610

NECHES RIVER BASIN

08041000 Neches River at Evsdale, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	227100	146200	106300	185000	441000	150000	70040	31150	14600	10420	16660	55930	1454400
1955	151900	498000	254200	723900	202900	179800	53030	89130	44010	33720	32650	31320	2294560
1956	39090	258600	141800	200600	263400	66640	54440	33890	11550	10920	6520	8820	1096270
1957	9780	21890	234300	338000	1883000	547800	167600	62960	43730	240700	986800	1038000	5574560
1958	963100	660000	475300	285900	885400	124900	120600	81180	265800	530600	115500	105300	4613580
1959	109200	428700	335900	740700	621900	320000	192700	176300	60760	41530	152900	356700	3537290
1960	637600	634700	852200	220800	223000	98110	132000	55240	27670	147400	266100	1148000	4442820
1961	1910000	1014000	1127000	836100	232700	140500	362000	102700	249700	76850	116100	663900	6831550
1962	545300	494700	393500	232200	771300	229200	118300	74760	29660	38040	73280	138800	3139040
1963	308900	221800	256000	192500	78900	66140	58950	44910	80220	35220	42840	80460	1466840
1964	145900	136800	446000	365200	446400	90250	54660	25670	19920	16450	11210	18480	1776940
1965	38630	95960	209200	255400	132800	258200	84820	38940	40810	20220	12740	152800	1340520
1966	177600	536500	156200	137900	797200	156200	133300	62750	84630	115900	80950	89770	2528900
1967	100700	63070	88380	163400	142400	134000	68760	65920	53730	33650	26660	33010	973680
1968	190500	155800	224100	706500	732000	693900	561800	256400	107100	184800	236300	528800	4578000
1969	468700	494900	883200	1260000	1483000	832100	162900	148600	106100	77950	55440	97300	6070190
1970	172700	130800	272700	323300	279400	106800	80110	50820	63050	72970	79930	70530	1703110
1971	69150	63760	83130	92630	75910	83140	77190	24380	23690	32260	22170	213100	860510
1972	230900	169300	178400	165600	254600	173600	129400	118400	98160	87190	130500	237800	1973850
1973	464600	619300	733100	1233000	1126000	921400	777200	242000	403000	495900	702100	937300	8654900
1974	1335000	1204000	1109000	434100	329200	259700	236600	211800	271600	156500	411500	640200	6599200
1975	892600	946100	883600	517900	971800	577700	472500	427500	273000	208400	129500	120700	6421300
MAX	1910000	1980000	1920000	2459000	3065000	2060000	785700	427500	403000	530600	1303000	2739000	9493670
MIN	9780	21890	83130	62000	49800	24200	17400	11100	11550	10420	6520	8820	860510
MEAN	559876	561850	631579	622443	690126	394701	178377	94743	74731	90982	173426	345705	4418539
NO.	56	56	56	57	57	57	58	58	58	58	58	58	56
DISTR OF MEAN	12.7%	12.7%	14.3%	14.1%	15.6%	8.9%	4.0%	2.1%	1.7%	2.1%	3.9%	7.8%	100%

NECHES RIVER BASIN

08041500 Village Creek near Kountze, Texas

LOCATION: Lat 30°23'52", long 94°16'48", Hardin County, at the bridge on Farm Road 418, 1.6 mi (2.6 km) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 3.1 mi (5.0 km) upstream from Cypress Creek, 3.4 mi (5.5 km) northeast of Kountze, and 4.3 mi (6.9 km) downstream from Beech Creek.

DRAINAGE AREA: 860 mi² (2,227 km²).

PERIOD OF RECORD: June 1924 to September 1927, May 1939 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 25.12 ft (7.657 m) above mean sea level, datum of 1929. Prior to Apr. 30, 1939, nonrecording gage at site 1.6 mi (2.6 km) downstream at different datum. Apr. 30, 1939 to Sept. 30, 1966, water-stage recorder at site 2,000 ft (610 m) downstream at present datum.

AVERAGE DISCHARGE: 41 years (1924-27, 1939-75), 589,903 ac-ft/yr (727.4 hm³/yr).

EXTREMES: Period of record (1924-27, 1939-75): Maximum discharge, 67,200 ft³/s (1,900 m³/s) Nov. 26, 1940 [gage height, 27.6 ft or 8.41 m, former site, from floodmark]; minimum daily, 16 ft³/s (0.45 m³/s) Oct. 1, 2, 1866.

Maximum stage since 1884, about 34 ft (10.4 m) in August 1915 at site 2,000 ft (610 m) downstream at present datum.

REMARKS: Records good. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	132900	14800	10800	7240	6700	8180	13100	-
1925	52400	14100	13400	9220	7960	5180	4400	2870	3960	49200	187000	47100	396790
1926	211000	49600	105000	169000	50700	18600	16300	10300	20200	14400	17800	119000	801900
1927	99700	92200	145000	123000	46000	45700	29200	11400	8810	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	12090	10050	4520	5720	2520	2880	5410	18610	-
1940	16640	38840	12690	37280	34060	30300	66130	36440	6160	4460	382600	358800	1024400
1941	98880	81860	118400	46950	104200	151800	53920	13040	34110	46250	170200	41950	961560
1942	59020	56120	73710	178700	56420	45700	43300	81700	51950	11990	17130	30090	705830
1943	84660	27990	40480	35670	49580	21050	48290	38370	15330	10490	13160	37000	422070
1944	124900	84980	71860	27990	195500	27810	8350	7140	15330	7160	18260	77630	666910
1945	164500	107000	72460	191000	52200	31920	24750	18170	22170	32300	17520	103600	837590
1946	199700	199400	116200	48350	103300	121600	78600	16970	13090	28680	216900	81150	1223940
1947	226500	54640	149400	33120	70510	32420	13420	8950	6880	5440	13870	51190	666340
1948	45870	83250	53530	30890	16850	7240	9820	3740	3760	3060	8870	9030	275910
1949	50920	87570	157700	143200	31490	27520	15900	10000	11480	254500	23950	191500	1005730
1950	219000	165500	135200	53600	127500	396800	35290	12120	12230	8030	8980	10370	1184620
1951	24050	22220	27190	38390	12930	6750	5200	3400	24540	7380	6590	19750	198390
1952	11750	25410	26200	100000	110200	20280	21300	5160	2740	2280	5590	20880	351790
1953	45760	79180	62020	48050	426300	19660	30870	13610	11880	5710	9110	36760	788910
1954	43040	20730	15860	32650	39530	6390	3880	7080	2780	5080	8220	7090	192330
1955	23010	46600	16240	99640	12170	5360	9910	11440	8200	5280	4210	8530	288590
1956	20610	73640	41050	17200	6720	4130	2360	1770	1580	1610	3650	8970	183290
1957	6940	13310	49130	55240	114300	37710	13250	5500	22170	39430	123300	68860	549140
1958	204000	107700	60670	34960	19880	7400	7080	4340	22490	12260	8780	6050	497610
1959	9790	67380	28240	85240	23580	10100	33830	28660	7410	18040	16200	63970	392440
1960	66680	81430	43820	12790	16290	24330	22970	7540	6110	22170	94890	91580	490600
1961	296200	142700	93050	36760	17800	64870	121100	23350	125600	14990	49040	75540	1061000
1962	58790	37650	30740	24830	50820	20860	11170	4090	5730	5820	10710	39390	300600
1963	42890	40820	27830	14220	5500	7400	11740	4190	35230	4790	15100	44870	254580
1964	50680	54740	104200	48530	26740	13010	3740	5560	4110	3500	5250	18940	339000
1965	12170	24580	29120	33300	12900	8700	3620	3180	3760	2740	8380	37750	180200
1966	52180	245400	38490	38740	53460	12390	5620	10480	6920	13380	14850	16850	508760
1967	23470	23080	20710	43920	12190	8360	4370	2170	2100	1400	2080	7690	151540
1968	16790	9730	24160	62050	76130	114700	40510	8600	11740	8050	14400	41250	428110
1969	23080	76090	96710	49500	221100	26000	7130	3610	3530	2830	5590	16060	533230
1970	20690	19110	28940	29650	65190	18060	3650	2390	3460	25300	15870	9710	242020
1971	15350	9720	18250	6190	17820	4290	1910	7710	5340	12940	11450	150600	261570
1972	91500	52160	68260	41650	141500	8990	14340	6040	5550	9630	34610	57060	531290
1973	107000	167600	149100	247200	140900	159100	76910	61230	85400	106700	104700	158700	1564540

NECHES RIVER BASIN
08041500 Village Creek near Kountze, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	350100	99100	64480	112100	35640	24860	10190	10940	29360	14780	113700	152800	1018050
1975	179500	125100	100800	81480	139500	126200	67500	97130	21240	39830	46650	44720	1069650
MAX	350100	245400	157700	247200	426300	396800	121100	97130	125600	254500	382600	358800	1564540
MIN	6940	9720	12690	6190	5500	4130	1910	1770	1580	1400	2080	7090	151540
MEAN	88454	72980	64879	64673	68936	45524	24418	15290	16931	21787	46069	59962	589903
NO.	39	39	39	39	40	41	41	41	41	40	40	40	38
DISTR OF MEAN	15.0%	12.4%	11.0%	11.0%	11.7%	7.7%	4.1%	2.6%	2.9%	3.7%	7.8%	10.2%	100%

NECHES RIVER BASIN

08041700 Pine Island Bayou near Sour Lake, Texas

LOCATION: Lat 30°06'21", long 94°20'04", Jefferson-Hardin County line, at the bridge on a county road, and 5.1 mi (8.2 km) southeast of Sour Lake.

DRAINAGE AREA: 236 mi² (670 km²).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 8 years, 312,804 ac-ft/yr (385.7 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 10,800 ft³/s (308 m³/s) June 11, 1975 (elevation, 30.83 ft or 9.400 m); minimum daily, 0.58 ft³/s (0.016 m³/s) Nov. 8, 1967.

Maximum stage since at least 1917, about 31 ft (9.4 m) in September 1963, from information by local residents.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	181	152	3930	-
1968	11900	2150	8370	37480	33860	52430	23800	2150	6080	6700	1000	7110	193030
1969	1640	40390	57210	28890	48130	8320	5440	2220	1130	178	381	9040	202969
1970	2290	3490	15600	9030	26100	19190	3680	2320	4770	39560	31430	786	158246
1971	292	1960	6660	4310	8920	2380	3360	10140	2390	2870	2020	69700	115002
1972	29860	35210	23750	10140	57080	3210	5780	2070	4570	1260	36600	35680	245210
1973	51500	52160	63910	126900	44650	120900	26820	28380	68940	71580	52200	37310	745250
1974	135600	23510	11410	27330	12310	9260	4510	4780	8220	4420	90880	68080	400310
1975	83470	23910	16430	52340	39320	141300	15690	58040	4430	18250	29650	27340	510170
MAX	135600	52160	63910	126900	57080	141300	26820	58040	68940	71580	90880	69700	745250
MIN	292	1960	6660	4310	8920	2380	3360	2070	1130	178	152	786	115002
MEAN	39569	22848	25418	37053	33796	44624	11135	13763	12566	16111	27146	28775	312804
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR													
OF MEAN	12.6%	7.3%	6.1%	11.6%	10.8%	14.3%	3.6%	4.4%	4.0%	5.2%	8.7%	9.2%	100%

TRINITY RIVER BASIN

08042650 North Creek Subwatershed No. 28-A near Jermyn, Texas

LOCATION: Lat 33°14'52", long 98°19'19", Jack County, near the center of the earthfill dam on an unnamed tributary of North Creek, 0.2 mi (0.3 km) upstream from North Creek, and 4.0 mi (6.4 km) southeast of Jermyn.

DRAINAGE AREA: 6.82 mi² (17.66 km²).

PERIOD OF RECORD: March 1972 to December 1975.

GAGE: Water-stage recorder and flat-crested weir on the concrete drop inlet. Datum of gage is 1,090.39 ft (332.351 m) above mean sea level. Prior to Oct. 5, 1972, staff gage at same datum.

AVERAGE DISCHARGE: 4 years, 534 ac-ft/yr (0.6 hm³/yr).

EXTREMES: Period of record (1972-75): Maximum inflow, 1,430 ft³/s (40.5 m³/s), average for 5-minute interval, Oct. 30, 1974, computed from the change in the pool contents and adjusted for rainfall on the pool surface during times of peak inflow; no inflow at times each year.

REMARKS: Records fair. The pool is formed by a rolled earthfill dam 1,800 ft (549 m) long, with a 100-foot wide (30-m) earthen spillway at the left end of the dam. The crest of the emergency spillway is at gage height 33.6 ft (10.21 m). The dam was completed in March 1972 and storage began on May 12, 1972. The outlet structure consists of a 2.5 by 7.5-foot (0.8 by 2.3-m) uncontrolled concrete drop-inlet structure that is connected to a 30-inch (762-millimeter) concrete outlet pipe. The drop-inlet structure is also equipped with a 12-inch diameter (305-millimeter) slide gate near the bottom of the tower with the invert at a gage height of 8.61 ft (2.62 m). The crest of the drop inlet is at gage height 18.12 ft (5.52 m). The capacity of the pool at the crest of the emergency spillway is 1,940 ac-ft (2.39 hm³), the capacity at the crest of the drop inlet is 245 ac-ft (0.302 hm³), and the capacity at the crest of the controlled outlet pipe is 24 ac-ft (0.030 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	-	-	0	0	190	2.40	1.20	.70	.90	8.10	.60	.10	-
1973	2.60	1.80	3.20	2.00	1.50	4.60	1.52	.70	4.10	1.46	4.00	1.40	324
1974	.20	.20	.70	35.6	12.3	10.3	.20	64.5	109	501	67.1	3.20	804
1975	14.5	124	7.70	29.8	355	101	29.6	67.7	6.90	2.70	5.80	12.3	757
MAX	14.5	124	7.70	35.6	355	101	29.2	67.7	109	501	67.1	12.3	804
MIN	.20	.20	0	0	1.50	2.40	.20	.70	.90	2.70	.60	.10	324
MEAN	5.77	42.0	2.90	16.8	190	29.6	45.7	33.4	30.2	164	19.4	4.25	534
NO.	3	3	4	4	4	4	4	4	4	4	4	4	3
DISTR													
OF MEAN	1.1%	7.9%	.5%	3.2%	26.2%	5.5%	8.6%	6.3%	5.7%	30.8%	3.6%	.6%	100%

TRINITY RIVER BASIN

08042700 North Creek near Jacksboro, Texas

LOCATION: Lat 33°16'57", long 96°17'53", Jack County, at the bridge on U.S. Highway 281, 1.7 mi (2.7 km) upstream from Henderson Creek, 8.4 mi (13.6 km) upstream from the mouth, and 9.5 mi (16.3 km) northwest of Jacksboro.

DRAINAGE AREA: 21.6 mi² (55.8 km²).

PERIOD OF RECORD: August 1956 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,016.33 ft (309.78 m) above mean sea level.

AVERAGE DISCHARGE: 20 years, 3,425 ac-ft/yr (4.2 km³/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 6,990 ft³/s (198 m³/s) Apr. 28, 1957 (gage height, 24.45 ft or 7.452 m); no flow at times each year.

Maximum stage since at least 1900, that of Apr. 28, 1957.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	6.30	0	984	554	101	-
1957	0	739	100	9660	6060	824	46.0	0	.20	88.0	1290	7.50	18815
1958	24.0	5.40	113	1750	1440	18.0	170	0	60.0	5.20	0	0	3586
1959	0	0	0	0	11.0	1270	883	0	9.9	2970	0	.40	5144
1960	214	198	5.00	93.0	41.0	24.0	18.0	19.0	550	93.0	0	0	1255
1961	857	36.0	1220	1.00	156	2.40	1070	4.20	65.0	227	127	.60	3766
1962	0	0	35.0	55.0	.80	2710	809	35.0	1130	59.0	446	176	5456
1963	2.00	4.40	4.00	873	128	127	0	3.20	0	0	142	0	1284
1964	33.0	17.0	0	15.0	931	15.0	0	40.0	32.0	0	974	0	2057
1965	20.0	.60	.20	65.0	1030	.20	0	0	1110	67.0	0	0	2293
1966	19.0	23.0	332	3970	199	154	0	72.0	159	3.70	.20	.70	4933
1967	.06	.10	.80	3.30	770	42.0	108	0	324	.40	0	0	1249
1968	178	17.0	808	53.0	30.0	193	191	0	11.0	0	5.90	.30	1487
1969	1.80	28.0	770	186	2070	193	0	0	157	.70	.02	338	3744
1970	5.20	31.0	110	1420	85.0	.20	0	0	0	.30	0	0	1652
1971	0	0	0	0	25.0	0	278	38.0	229	86.0	0	72.0	728
1972	8.00	3.00	11.0	47.0	1160	0	0	0	0	14.0	.06	0	1243
1973	10.0	.40	7.50	17.0	16.0	1.00	244	.20	46.0	240	6.00	0	588
1974	0	17.0	0	103	41.0	56.0	0	212	144	1350	563	14.0	2500
1975	32.0	201	29.0	48.0	1010	586	222	256	19.0	2.40	8.30	16.0	2422
MAX	857	739	1220	9660.	6060	2710	1070	256	1130	2970	1290	338	18815
MIN	0	0	0	0	.80	0	0	0	0	0	0	0	588
MEAN	73.9	69.5	187	966	800	327	213	34.3	202	310	206	36.3	3425
NO.	19	19	19	19	19	19	19	20	20	20	20	20	19
DISTR													
OF MEAN	2.2%	2.0%	5.4%	28.2%	23.4%	9.6%	6.2%	1.0%	5.9%	9.0%	6.0%	1.1%	100%

TRINITY RIVER BASIN

08042800 West Fork Trinity River near Jacksboro, Texas

LOCATION: Lat 33°17'36", long 98°04'43", Jack County, at the bridge on State Highway 59, 4 mi (6 km) downstream from Big Cleveland Creek, 7 mi (11 km) upstream from Carroll Creek, and 7 mi (11 km) northeast of Jacksboro.

DRAINAGE AREA: 683 mi² (1,769 km²).

PERIOD OF RECORD: March 1956 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 869.28 ft (264.96 m) above mean sea level. Sept. 20, 1960 to May 30, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 20 years, 72,048 ac-ft/yr (88.8 hm³/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 35,100 ft³/s (994 m³/s) Apr. 27, 1957 (gage height, 32.10 ft or 9.784 m, from floodmark); no flow at times each year.

Maximum stage since at least 1800, that of Apr. 27, 1857.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	0	0	7540	9680	112	52.0	0	5940	6690	5740	-
1957	145	15970	3850	189600	146800	31450	1400	1.40	627	8700	29620	280	428443
1958	1740	65.0	5090	9220	27900	204	3220	87.0	227	2.00	.40	0	47755
1959	0	0	70.0	194	171	13010	2230	.20	338	34940	521	820	52294
1960	7260	4620	34.0	75.0	192	1670	1640	.60	615	4300	29.0	521	20957
1961	6890	343	4870	669	573	397	4930	827	2610	3040	5720	1360	32229
1962	4.00	0	365	7130	812	33630	12950	569	24750	1080	12950	8220	102460
1963	107	78.0	18.0	4500	2530	1140	0	33.0	5.60	8.10	2740	446	11606
1964	768	2010	187	3480	7230	6710	0	887	1200	179	12710	60.0	35421
1965	703	250	93.0	496	15860	3810	5.00	134	9650	2260	5.10	0	33266
1966	171	100	2670	58710	61350	198	61.0	5920	18360	565	4.90	2.70	148113
1967	0	0	0	22.0	3220	11170	3910	42.0	7080	224	118	8.70	25795
1968	7780	387	28680	2810	2400	1440	2580	510	435	88.0	1390	444	48944
1969	346	2160	20590	5850	46450	2010	518	36.0	6380	1200	861	8570	94971
1970	4210	2420	4930	6610	21960	157	.02	12.0	105	11.0	.10	0	40415
1971	99.0	0	0	0	591	659	475	6460	7050	5420	5.00	6140	26899
1972	11.0	0	56.0	270	74810	229	533	0	5.00	2640	6610	5.10	85169
1973	4570	756	1180	2470	1100	2490	5450	5100	2620	9530	3320	167	38753
1974	8.70	345	34.0	1370	2190	936	13.0	1670	9050	7890	13050	42.0	36599
1975	648	10440	2580	2620	27080	28320	15440	3760	164	13.0	21.0	48.0	91134
MAX	7780	15970	28680	189600	146800	33630	15440	6460	24750	34940	29620	8570	428443
MIN	0	0	0	0	171	157	0	0	0	2.00	.10	0	11606
MEAN	1866	2102	3765	14805	22538	7466	2773	1305	4564	4402	4818	1644	72048
NO.	19	19	20	20	20	20	20	20	20	20	20	20	19
DISTR OF MEAN	2.6%	2.9%	5.2%	20.5%	31.3%	10.4%	3.8%	1.8%	6.3%	6.1%	6.7%	2.3%	100%

TRINITY RIVER BASIN

08043000 Bridgeport Reservoir above Bridgeport, Texas

LOCATION: Lat 35°13'22", long 97°49'54", Wise County, at the left end of Bridgeport Dam on the West Fork Trinity River, 4.6 mi (7.4 km) west of Bridgeport, and 13 mi (21 km) upstream from Big Sandy Creek.

DRAINAGE AREA: 1,111 mi² (2,877 km²).

PERIOD OF RECORD: May 1932 to December 1976.

GAGE: Nonrecording gage. Datum of gage is at mean sea level. Prior to Jan. 26, 1944, nonrecording gages at various sites in the vicinity of the present gage at present datum.

EXTREMES: Period of record (1932-76): Maximum contents, 407,600 ac-ft (502.6 hm³), Apr. 29, 30, 1942 (elevation, 836.2 ft or 254.87 m); maximum elevation, 836.3 ft or 254.90 m, July 28, 1975; minimum contents since the first appreciable storage in 1935, 7,170 ac-ft (8.84 hm³) Oct. 12-16, 1956.

REMARKS: The reservoir is formed by a rolled earthfill dam 2,040 ft (622 m) long, with a capacity of 387,000 ac-ft (477.2 hm³). The dam was completed in December 1931 and storage began on Apr. 1, 1932. The original dam was 1,900 ft (579 m) long, but was lengthened to the present length (2,040 ft or 622 m) in 1971-1972. The original service spillway was eliminated during construction (1971-72), and a new spillway with approach and discharge channels was built through natural ground 2,800 ft (853 m) from the left end of the dam. The new spillway is 80 ft (27 m) wide and has eight vertical lift gates that are 11.25 by 22 ft (3.43 by 7 m). The controlled outlet works consist of a 48-inch diameter (1,219-millimeter) and an 18-inch diameter (457-millimeter) pipe enclosed in a concrete conduit extending through the dam. In addition, a controlled 80-inch diameter (2,032-millimeter) steel pipe extends through the service spillway wall to the spillway discharge basin. The dam is operated by the Tarrant County Water Control and Improvement District No. 1.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1932	-	-	-	-	25300	31600	38280	37640	37320	37640	34300	34300
1933	34300	34300	19400	12680	80000	40880	37320	41220	20210	23260	5600	2200
1934	9780	18440	44280	52600	53800	51800	25000	3160	12920	12940	22680	22970
1935	20480	22970	27700	28600	96200	117800	93600	76500	102140	103760	107600	118400
1936	117800	117200	116600	111800	130850	116600	98360	83500	116000	126950	105920	109400
1937	111200	111800	120800	122600	115400	116000	98900	88000	78000	78500	71860	78000
1938	91520	97820	141500	154800	171600	173000	149900	133450	107600	84000	82500	71860
1939	78000	77500	76000	77000	85000	77500	73240	61800	52600	51000	50600	49800
1940	49400	51000	50600	59800	75080	134750	146400	177000	178600	176200	236500	263000
1941	262000	277000	250000	308000	314400	305000	214000	197000	167400	264000	238300	221200
1942	196200	163200	149200	407600	358400	332000	297000	276000	267000	282000	241900	241000
1943	240100	218500	224800	213100	195400	201800	184200	157600	145000	135400	129600	130200
1944	135400	156900	169500	181000	193800	181800	164600	147100	140100	142200	144300	149900
1945	154100	166700	252000	269000	241000	232900	249100	217600	212200	197000	170900	161800
1946	159000	159700	159700	169500	182600	184200	161800	145000	149200	134100	160400	194600
1947	188200	173800	177800	195400	221200	206800	182600	148500	122000	126300	120800	134800
1948	136700	148500	154800	154100	156900	157600	146400	130200	110600	103800	88000	82500
1949	78000	80500	84000	86000	144300	173000	164600	151300	147800	163200	161100	159700
1950	161800	166000	164600	189800	247300	262080	317700	304000	297000	235600	205900	187400
1951	180200	175400	174600	171600	179400	208600	197000	165300	161800	128000	116600	108300
1952	106400	105800	99710	95580	100300	92690	88150	67540	58900	55540	57640	58060
1953	57640	56800	57220	58480	71330	68470	62020	53880	44040	79490	80550	80550
1954	69410	68940	60220	65700	77900	79490	68000	49040	40740	34780	29840	23490
1955	20960	20960	22360	22920	34100	58480	50120	34440	45560	39660	29840	19880
1956	19880	19880	16550	15800	23490	24070	10900	8670	7480	10900	10510	21240
1957	17300	42540	47090	295000	357100	293900	282000	272500	259200	270300	297500	286000
1958	284800	280600	293200	296400	299600	284800	279500	276400	266200	259200	254200	242600
1959	234900	234000	232100	229380	226500	211100	215600	210200	205800	204800	273400	275400
1960	283500	278200	276100	275000	272900	268800	259600	241700	236900	254500	243700	242700
1961	264700	268800	280300	277100	274000	275000	277100	270900	263600	259600	258600	260600
1962	254500	248600	245600	254500	247600	281400	298800	284600	291100	271900	284600	270900
1963	268800	267700	266700	286700	283500	277100	267700	247600	241700	229300	221900	214600
1964	211000	213600	212700	214600	233100	242700	207400	196900	202100	198600	228400	226500
1965	228400	230300	229300	230300	277100	277100	268800	241700	251600	251600	249600	247600
1966	247600	251600	253500	306600	308900	292200	281400	287800	295500	283500	278200	275000
1967	272900	271900	268800	269800	278200	287800	280300	272900	275000	262600	253500	243700
1968	261600	263600	315700	306600	297700	285700	279300	274000	266700	257700	247700	247700
1969	243800	249700	297700	287900	303300	291100	277200	254700	256700	257100	256100	273400
1970	277600	282900	293700	303700	302600	285100	264200	233600	245200	242300	238400	236500
1971	227000	217800	212400	200900	190600	175000	155500	158500	147400	154000	153200	168600
1972	167800	167000	165500	167800	231700	203500	186400	155500	143700	146600	153200	144400
1973	145900	146600	149500	160000	146700	167800	175000	178200	180600	200900	204400	201800
1974	201800	201800	200900	205300	201800	190600	164700	155500	170200	188900	223300	223300
1975	225200	253100	262100	272400	326600	385700	389600	388200	381800	355400	345600	340800
MAX	284800	282900	315700	407600	358400	385700	389600	388200	381800	355400	345600	340800
MIN	9780	18440	16550	12680	23490	24070	10900	3160	7480	10900	5600	2200
MEAN	162734	164185	170159	187520	196649	195573	184757	171746	168255	169421	167483	166988
NO.	43	43	43	43	44	44	44	44	44	44	44	44
DISTR OF MEAN	7.7%	7.8%	8.1%	8.9%	9.3%	9.3%	8.8%	8.2%	8.0%	8.0%	8.0%	7.9%

TRINITY RIVER BASIN

08043500 West Fork Trinity River at Bridgeport, Texas

LOCATION: Lat 33°12', long 97°47', Wise County, at the Chicago, Rock Island and Gulf Railway Co. pumping plant, and 0.5 mi (0.8 km) southwest of Bridgeport.

DRAINAGE AREA: 1,147 mi² (2,970.7 km²).

PERIOD OF RECORD: September 1908 to February 1930 (published as "Trinity River", 1916 and 1916).

GAGE: Staff gage. Datum of gage is 721.0 ft (219.8 m) above mean sea level.

AVERAGE DISCHARGE: 23 years, 151,051 ac-ft/yr (186.2 hm³/yr).

EXTREMES: Period of record (1908-30): Maximum gage height, 28.9 ft (8.8 m) June 8, 1915; no flow during several periods.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1908	-	-	-	-	-	-	-	-	4000	14300	161	6270	-
1909	0	13.9	79.3	55.0	627	42600	1310	7190	1.80	6.10	4.20	1.80	51889
1910	123	111	31.0	5120	10700	8210	8920	1340	1090	226	61.3	29.5	35962
1911	33.8	989	79.3	649	387	0	8060	62100	37500	214	35.7	14000	124048
1912	79.3	5.80	3930	2710	1810	25500	361	29500	290	4220	1840	329	70575
1913	121	6.10	542	1390	29600	3420	1520	6.10	11100	12900	44300	62700	167605
1914	258	480	218	61900	101000	4110	204	75600	2260	116	127	7930	254203
1915	505	84.0	614	148800	31240	180300	1770	15620	3950	13800	327	342	397352
1916	16500	1060	1130	85700	25300	449	111	53.0	1430	11400	3130	312	146575
1917	136	235	243	5480	2710	821	14700	11900	5590	36.3	49.4	119	42022
1918	58.4	22.2	142	49600	8670	12000	1040	227	3160	25600	13500	29700	143720
1919	20900	14600	10400	19000	55900	6250	5420	3860	4950	65200	11300	400	218180
1920	7810	610	287	2840	147000	29600	9650	35400	54700	33300	7970	6700	335867
1921	3340	7940	7070	1780	1010	16300	19700	848	660	199	54.1	45.5	58947
1922	36.9	6.10	234	102000	41700	14300	3680	14.1	0	0	7260	177	169408
1923	1310	10500	3390	124000	11500	50500	1400	1120	3200	36900	55700	36800	336320
1924	1480	564	20600	6330	3380	1210	51.6	1180	1300	281	0	90.8	36467
1925	83.5	7.90	1.60	11600	28700	3750	3710	45.6	6300	3200	2410	7.70	59816
1926	8110	371	17800	17900	11600	15600	25600	20200	8200	15700	145	33100	174326
1927	9800	18900	40400	62900	1500	9040	7440	1130	4990	15700	12.0	261	172073
1928	1870	452	744	593	9040	44900	21200	3290	1110	3780	6960	2020	95959
1929	6150	572	1930	3180	56800	12100	652	3.10	10200	2650	1250	2130	97617
1930	8.60	334	-	-	-	-	-	-	-	-	-	-	-
MAX	20900	18900	40400	148800	147000	180300	25600	75600	54700	65200	55700	62700	397352
MIN	0	5.80	1.60	55.0	387	0	51.6	3.10	0	0	0	1.80	35962
MEAN	3578	2630	5232	33977	27627	22903	6500	12887	7545	11806	7118	9248	151051
NO.	22	22	21	21	21	21	21	21	22	22	22	22	21
DISTR													
OF MEAN	2.4%	1.7%	3.5%	22.5%	18.3%	15.2%	4.3%	8.5%	5.0%	7.8%	4.7%	6.1%	100%

TRINITY RIVER BASIN

08044000 Big Sandy Creek near Bridgeport, Texas

LOCATION: Lat 33°13'54", Long 97°41'40", Wise County, at the bridge on U.S. Highway 280, 1.9 mi (3.1 km) upstream from Greathouse Branch, 4.0 mi (6.4 km) east of Bridgeport, and 4.4 mi (7.1 km) upstream from the mouth.

DRAINAGE AREA: 333 mi² (862 km²).

PERIOD OF RECORD: October 1936 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 727.44 ft (221.724 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 40 years, 54,648 ac-ft/yr (67.4 hm³/yr).

EXTREMES: Period of record (1936-75): Maximum discharge, 53,000 ft³/s (1,500 m³/s) June 10, 1941 (gage height, 15.69 ft or 4.782 m, from floodmark); no flow at times most years.

Maximum stage since at least 1887 occurred in 1908 and 1915 and reached about the same stage as that of June 10, 1941.

REMARKS: Records good. Since May 1, 1966, runoff from 103 mi² (267 km²) above the station is affected by Amon Carter Reservoir located 30 mi (48 km) upstream, capacity 15,240 ac-ft (18.8 hm³) at elevation 820.0 ft (280.42 m), the crest of the spillway.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	-	-	-	-	12640	998	2130	-
1937	2550	1030	3570	1490	359	497	850	1990	188	109	180	11230	24043
1938	3070	2990	15390	4480	1980	2210	59.0	0	0	0	0	0	30179
1939	1570	0	668	877	896	208	70.0	284	40	434	0	0	5207
1940	0	26.0	0	1860	3780	16240	14570	10400	90.0	0	23090	9210	79266
1941	1570	15310	2300	31740	15920	114400	1690	612	275	70140	7790	4040	265787
1942	1610	1060	2040	9340	33280	29020	571	83.0	329	55940	577	650	218500
1943	634	508	13090	3830	13180	18660	449	0	0	60.0	0	7.30	50418
1944	219	13760	4360	5800	7570	1150	60	670	467	1300	3630	2430	41357
1945	1440	7260	54530	26890	2070	2560	24290	155	4530	16280	697	666	141368
1946	19430	16200	14040	6880	18060	12340	234	37.0	212	0	7660	13710	108803
1947	1090	670	1740	12110	17780	1250	24.0	0	79.0	375	57.0	5980	41155
1948	1100	4350	1490	441	831	3770	375	1.40	0	0	0	0	12358
1949	5.80	165	1440	202	10130	9630	318	444	2540	12900	895	704	39374
1950	1420	4800	784	3880	17880	15830	26180	7120	14310	913	415	486	94018
1951	445	711	642	418	4410	21880	5610	4.20	141	258	43.0	0	34562
1952	12.0	62.0	249	817	4330	1090	52.0	0	0	0	161	58.0	8851
1953	.80	0	.20	434	1840	0	433	652	1.20	4710	494	258	8823
1954	238	80.0	54.0	169	3630	1640	29.0	0	81.0	269	0	69.0	6259
1955	0	0	30.0	86.0	832	3440	2.0	0	0	1.00	0	0	4389
1956	0	87.0	0	0	1110	0	26.0	319	0	201	224	985	2952
1957	7.90	3700	931	69910	64790	23770	1.60	0	0	775	12250	805	176940
1958	1180	682	5020	2010	35990	286	842	0	0	0	143	2.00	46155
1959	27.0	40.0	52.0	13.0	4.40	25060	4640	159	395	62400	799	2410	95999
1960	8680	2900	3820	1480	1740	1740	273	0	177	3980	222	1470	26482
1961	7680	1420	3300	2070	1530	2670	320	8.70	0	118	747	1260	21124
1962	361	189	291	3540	1210	14700	1550	593	29200	1580	13750	4880	71844
1963	1380	1080	856	7940	6410	1170	41.0	9.3	47.0	0	257	331	19521
1964	580	947	635	2030	1850	372	0	541	3560	356	17730	1030	29631
1965	2770	1980	977	797	10160	4020	61.0	158	1760	1260	364	343	24650
1966	325	5230	888	11980	20580	3370	52.0	253	2420	1010	510	284	46902
1967	231	247	503	1380	7270	6250	50.0	0	210	407	298	373	17219
1968	4830	1060	21630	9800	5890	2250	476	170	105	130	450	429	47220
1969	1290	2360	18840	2580	36320	2310	31.0	15.0	1220	461	252	5250	70929
1970	1230	1740	3340	9810	5010	498	3.80	0	3740	365	175	217	26129
1971	276	289	325	230	221	195	766	1100	1150	9160	986	11060	25758
1972	846	787	784	1210	9540	532	85.0	0	0	2340	1330	236	17690
1973	1730	1370	2010	5240	3150	3180	11130	14160	407	11230	4160	1020	58787
1974	849	1560	1090	4180	2640	535	0	897	2320	11100	11840	1270	38281
1975	1850	9610	7730	7830	10290	7120	4350	1120	105	91.0	185	352	50633
MAX	19430	16200	54530	93340	64790	114400	26180	14160	29200	70140	23090	13710	265787
MIN	0	0	0	0	4.40	0	0	0	0	0	0	0	2952
MEAN	1860	2725	4863	8712	9858	9124	2577	1076	1796	7082	2834	2141	54648
NO.	39	39	39	39	39	39	39	39	39	40	40	40	39
DISTR OF MEAN	3.4%	5.0%	8.9%	15.9%	18.0%	16.7%	4.7%	2.0%	3.3%	13.0%	5.2%	3.9%	100%

TRINITY RIVER BASIN

08044500 West Fork Trinity River near Boyd, Texas

LOCATION: Lat 33°05'08", long 97°33'30", Wise County, at the bridge on Farm Road 730, 0.6 mi (1.0 km) northeast of Boyd, and 3.5 mi (5.6 km) downstream from Bogy Creek.

DRAINAGE AREA: 1,725 mi² (4,468 km²).

PERIOD OF RECORD: January 1947 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 660.57 ft (201.342 m) above mean sea level, datum of 1929. Prior to Dec. 14, 1954, water-stage recorder at site 2.2 mi (3.5 km) downstream at datum 5.48 ft (1.670 m) lower.

AVERAGE DISCHARGE: 29 years, 168,964 ac-ft/yr (186.0 hm³/yr).

EXTREMES: Period of record (1947-75): Maximum discharge, 27,300 ft³/s (773 m³/s) Oct. 5, 1959 (gage height, 22.17 ft or 6.757 m); no flow at times.

Maximum stage since at least 1880, 25 ft (7.6 m); present site and datum, in May 1908, from information by local residents, who also reported a flood of about the same height in the period 1870-80.

REMARKS: Records good. The flow is largely regulated by Bridgeport Reservoir (station 08043000) and by Amon Carter Reservoir near Bowie since May 1956.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	11090	13260	4180	16780	16970	14880	19080	30240	23210	2730	5710	15710	173840
1948	8400	15020	3480	917	1970	9580	13860	13080	16850	2380	12050	8450	106037
1949	7140	430	4490	831	20390	14260	3770	12620	13250	28190	1120	774	107265
1950	1560	7660	915	10400	44240	17570	81760	71170	62150	64280	27570	21740	411015
1951	9080	6370	1080	824	12650	31390	20000	24380	585	13720	11320	8190	139589
1952	115	137	6780	10080	4170	5070	2240	14430	7480	326	1290	136	52254
1953	102	5480	157	622	7170	164	6870	15410	10190	23220	1680	681	66272
1954	14180	208	7960	319	23170	2110	9000	14890	6390	10590	6550	7250	102617
1955	3010	6430	1640	3540	5720	7310	12680	13190	12400	6660	6640	11240	78907
1956	4640	5940	2230	1130	5610	4790	11040	576	1440	182	7140	3690	36507
1957	4000	7690	2260	92180	279100	141200	8330	2080	8200	1310	36060	12400	594810
1958	8340	5360	17320	27470	147700	11190	6470	2670	6700	2880	4060	10570	250730
1959	6020	237	362	198	1550	43170	9840	1750	473	126500	9390	5000	204490
1960	29650	18880	9020	3150	3080	6780	10020	12000	4790	4090	7040	3950	112450
1961	11120	2080	7650	4950	2850	16550	2130	1210	6910	4240	7480	1200	68370
1962	4610	5320	2510	16340	5460	27470	12580	11550	97790	24430	13910	32230	254200
1963	2270	1320	1370	18890	16430	5130	1870	14890	1050	9310	7590	5760	65880
1964	7290	1260	1140	12440	15400	3760	27890	8770	9950	395	38970	1600	128885
1965	4680	4630	1710	1590	24010	5810	790	22140	6610	1510	624	637	74741
1966	657	8180	1230	8970	111900	21790	5970	2670	24550	8860	3550	1740	200067
1967	847	616	2680	2240	14390	30990	5430	1080	6810	7200	9490	10170	91943
1968	11370	1730	50800	59780	28970	18190	8270	3140	4030	4060	10850	762	201952
1969	9500	4060	36070	28360	94050	19070	5910	18570	6490	2920	815	10100	235915
1970	4980	5370	33250	28210	36200	13220	12640	24160	10170	1070	526	612	170408
1971	8070	8390	3530	11190	12600	14160	22370	5980	19940	12860	1710	21840	142690
1972	1740	1120	845	5570	12840	23280	13970	26830	11360	6760	2880	9630	116825
1973	10460	2980	3470	14170	18120	8180	4670	23470	2570	12690	5360	2270	100410
1974	1370	1990	1410	8690	6620	9690	19850	11880	7330	22340	40760	2490	134420
1975	2400	14340	9780	11580	20060	39770	32550	6650	766	17830	5710	5870	167306
MAX	29650	18880	50800	92180	279100	141200	81760	71170	97790	126500	40760	32230	594810
MIN	4640	5480	1640	3540	1550	164	790	576	1440	182	526	136	36507
MEAN	6348	4784	7507	13721	33979	19535	13512	14189	13414	14605	9926	7474	158994
NO.	29	29	29	29	29	29	29	29	29	29	29	29	29
DISTR													
OF MEAN	4.0%	3.0%	4.7%	8.6%	21.4%	12.3%	8.5%	8.9%	8.4%	9.2%	6.2%	4.7%	100%

TRINITY RIVER BASIN

08045000 Eagle Mountain Reservoir above Fort Worth, Texas

LOCATION: Lat 32°52'39", long 97°28'29", Tarrant County, at the right end of the main section (left) of Eagle Mountain Dam on the West Fork Trinity River, and 11.8 mi (19.0 km) northwest of Fort Worth.

DRAINAGE AREA: 1,970 mi² (5,102 km²).

PERIOD OF RECORD: February 1934 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level. Prior to Feb. 24, 1943, nonrecording gages at several sites within 1.0 mi (1.6 km) of present site at present datum.

EXTREMES: Period of record (1934-75): Maximum contents, 333,500 ac-ft (411 hm³) Apr. 26, 1942 (elevation, 659.9 ft or 201.14 m); minimum contents since the first appreciable storage in 1935, 57,890 ac-ft (71.1 hm³) Nov. 19, 20, 1956.

REMARKS: The reservoir is formed by two sections of rolled earthfill and a concrete spillway separated by high natural ground, with a capacity of 190,400 ac-ft (234.8 hm³). The total length of the dam, including the spillway, is 4,800 ft (1,460 m). The dam was completed on Oct. 24, 1932 and storage began on Feb. 28, 1934. The emergency spillway is a 1,300-foot wide (398-m) cut through natural ground located between the two sections of earthfill that make up the dam. The original service spillway, located in the section to the right of the main dam, contains a concrete spillway with four 24-foot (8-m) bays, three are equipped with vertical lift gates and the fourth is left open. In 1971, a side channel spillway was constructed. The newest spillway is located 300 ft (91 m) to the left of the original service spillway and has six 11.25- by 22-foot wide (3.43- by 7-m) roller lift gates. The main section of the dam contains the outlet works that consist of two concrete conduits with two 48-inch diameter [1,219-millimeter] valves in each conduit. The reservoir is used for flood control and maintains the water level of Lake Worth from which the City of Fort Worth derives part of its municipal water supply. The dam is operated by the Tarrant County Water Control and Improvement District No. 1.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1934	-	0	16510	16010	19100	9320	15550	19100	21350	20350	28320	27200
1935	31200	33900	37700	37700	173400	160000	167200	155500	164000	163200	167200	177000
1936	168800	160000	160000	154800	168000	163200	163200	168000	191900	175200	168000	173400
1937	178800	170700	174300	169800	168000	164800	168900	175200	168900	166400	168900	176100
1938	179700	175200	212100	171600	168900	166400	175200	166400	171600	179700	169800	177000
1939	169800	170700	162400	176100	173400	168900	162400	162400	161600	151800	150200	149500
1940	148000	148800	147200	150200	161600	185100	182400	194200	181500	174300	203100	174300
1941	170700	171600	185100	191400	188700	267300	190500	176100	169800	171600	168900	176100
1942	156200	164800	164000	301400	223400	195000	154800	151000	120800	123350	120100	121400
1943	121400	142200	169800	171600	213000	209400	210300	211200	212100	211200	210300	212100
1944	214900	219600	208500	210300	208500	209400	213000	215800	211200	210300	211200	212100
1945	213000	221800	219600	209400	209400	209400	211200	211200	213000	211200	211200	208500
1946	207600	209400	213000	208500	218700	209400	209400	204000	194100	201300	206700	207600
1947	194100	196800	198600	204000	200400	205800	204000	205800	207600	191400	195000	204900
1948	204900	225400	207600	202200	201300	191400	186000	177000	177900	176100	177000	179700
1949	185100	187800	195000	195900	228200	217800	201300	200400	199500	220600	203100	196800
1950	198600	204900	199500	204900	213000	204900	220600	199500	196800	207600	194100	197700
1951	199500	201300	188700	186900	194100	198600	202200	207600	195900	166100	168600	169400
1952	163700	159000	157400	166900	166100	152000	138600	137200	135000	125200	126500	125800
1953	119100	115800	111900	110700	117100	105000	101400	105000	101400	119800	118500	114500
1954	124500	119100	123100	119100	129300	124500	117800	117100	110000	108700	106900	111900
1955	110700	108700	105000	100800	106300	110000	107500	107500	109400	107500	105700	111300
1956	108700	108700	103800	99050	105000	97280	92680	79600	65100	59840	61580	62900
1957	61580	69230	68760	172700	267700	183700	181900	173500	176000	172700	175200	176000
1958	171000	169400	167800	169400	183700	184700	181100	170200	170200	169400	162900	171000
1959	170200	169400	164500	159000	154300	181900	183700	172700	165300	163700	171000	177700
1960	169400	172700	176000	176900	176900	169400	186800	169400	165300	161400	161400	162100
1961	171900	174300	177700	174300	170200	180200	175200	161400	160600	160600	165300	162100
1962	162100	162100	160600	172700	162900	176900	181100	181900	177700	182700	185600	181900
1963	181100	181100	176000	181900	183700	179400	170200	166900	158200	159000	159000	158200
1964	161400	159000	159000	169400	169400	166100	171000	170200	176900	173500	181900	181900
1965	182700	180200	177700	179400	184700	182700	171000	174300	183700	177700	175200	172700
1966	167800	175200	170200	190400	184700	183700	177700	166900	181900	179400	175200	172700
1967	169400	164500	163700	165300	167800	181900	175200	162900	162100	159000	161400	164500
1968	174300	172700	181100	175200	176000	181900	181900	169400	165300	170000	174300	169200
1969	169200	173400	183100	182200	187700	190400	176900	177800	177800	179600	173400	177800
1970	175200	185800	180400	187700	184900	184900	177800	179600	187700	181300	177800	170900
1971	171700	175200	169200	171700	170900	169200	172600	170000	174300	181300	172600	186800
1972	184000	181300	176900	170900	171700	175200	170900	175200	171700	173400	176000	171700
1973	176900	179600	179600	187700	187700	186800	186800	182200	178700	187700	189500	185800
1974	185600	182200	176000	177800	173400	170000	169200	176000	189500	224300	188600	189500
1975	189500	188600	188600	189500	188600	190400	189500	184900	174300	176000	173400	172600
MAX	214900	225400	219600	301400	267700	267300	220600	215800	213000	224300	211200	212100
MIN	31200	0	16510	16010	19100	9320	15550	19100	21350	20350	28320	27200
MEAN	164785	162665	163266	169366	176233	174864	170439	167024	166123	166082	165171	165960
NO.	41	42	42	42	42	42	42	42	42	42	42	42
DISTR												
OF MEAN	8.23	8.14	8.14	8.44	8.82	8.74	8.54	8.34	8.34	8.34	8.24	8.24

TRINITY RIVER BASIN

08045500 West Fork Trinity River at Lake Worth Dam above Fort Worth, Texas

LOCATION: Lat 32°48', long 97°25', Tarrant County, in the valve tower just above Lake Worth Dam, and 4.5 mi (7.2 km) northwest of the Tarrant County Courthouse in Fort Worth.

DRAINAGE AREA: 2,069 mi² (5,358.7 km²).

PERIOD OF RECORD: September 1923 to September 1934.

GAGE: Water-stage recorder. Datum of gage is 594.3 ft (181.1 m) above mean sea level.

AVERAGE DISCHARGE: 12 years, 226,438 ac-ft/yr (279.2 hm³/yr).

EXTREMES: Period of record (1923-34): Maximum discharge, 7,800 ft³/s (215.2 m³/s) November 18, 1923 (gage height, 2.25 ft or 0.69 m); no flow at times.

REMARKS: Records fair. The flow is materially regulated by Eagle Mountain Reservoir (station 08045000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	0	26600	86700	86600	-
1924	4820	2380	55200	23700	14300	4230	0	0	0	0	0	0	104630
1925	0	0	0	0	46200	0	548	0	0	1820	3810	0	52378
1926	11300	877	33500	36500	22800	19600	24400	39700	43600	15400	173	36300	284150
1927	15800	27900	70200	122000	8010	7900	9760	1300	3460	20800	0	4430	291560
1928	2150	3220	1490	5210	24300	70200	44100	16600	1060	0	8030	9100	185460
1929	13200	4400	6390	9400	102000	38100	0	0	315	0	666	2300	176771
1930	0	0	0	0	115000	49500	462	0	0	86700	2860	44100	298622
1931	2080	30100	33500	27400	6760	4510	4030	713	0	45900	12600	21000	188593
1932	120000	97800	19400	1400	40300	20300	95300	113	25600	110	0	15300	435524
1933	28500	1820	60000	25000	46500	67200	461	460	23100	92	4680	3810	261126
1934	2530	2220	1130	2200	1990	2150	4330	3650	0	-	-	-	-
MAX	120000	97800	70200	122000	115000	70200	95300	39700	43600	86700	86700	86600	435524
MIN	0	0	0	0	1990	0	0	0	0	0	0	0	52378
MEAN	18216	15520	25528	22983	38924	25790	16672	5647	8095	17931	10865	20267	226438
NO.	11	11	11	11	11	11	11	11	12	11	11	11	10
DISTR OF MEAN	8.0%	6.9%	11.3%	10.1%	17.2%	11.4%	7.4%	2.5%	3.6%	7.9%	4.8%	9.0%	100%

TRINITY RIVER BASIN
08046000 Clear Fork Trinity River near Aledo, Texas

LOCATION: Lat 32°38'28", long 97°33'51", Parker County, 3 mi (5 km) downstream from Turkey Creek, 3.5 mi (5.6 km) upstream from the bridge on U.S. Highway 377, 4 mi (6 km) southeast of Aledo, and 11.8 mi (19.0 km) upstream from Bonbrook Dam.

DRAINAGE AREA: 251 mi² (650 km²).

PERIOD OF RECORD: August 1947 to September 1975.

GAGE: Water stage recorder. Datum of gage is 723.33 ft (220.471 m) above mean sea level.

AVERAGE DISCHARGE: 29 years, 29,595 ac-ft/yr (36.5 hm³/yr).

EXTREMES: Period of record (1947-75): Maximum discharge, 34,000 ft³/s (963 m³/s) May 25, 1957 (gage height, 20.00 ft or 8.839 m); no flow at times most years.

Maximum stage since at least 1858, 34 ft (10.4 m) in April 1922, from information by a local resident.

REMARKS: Records good. Since Dec. 15, 1956, Lake Weatherford, about 15 mi (24 km) upstream, has partly controlled the runoff from 109 mi² (282 km²) above the station. Lake Weatherford has a capacity of 19,470 ac-ft (24.0 hm³) at elevation 896.0 ft (273.10 m), a fixed glory-hole outlet, and total storage of 20,580 ac-ft (36.5 hm³) at elevation 903.0 ft (275.23 m), the emergency flood spillway.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	5.80	6.30	483	272	3520	-
1948	3720	13300	4480	1260	2430	668	353	16.0	0	0	24.0	105	26356
1949	414	1370	8030	1900	32730	10100	862	539	954	7860	1000	930	66689
1950	2280	6720	2380	11650	16100	2090	6200	4030	12820	1400	1080	1160	67910
1951	1220	1500	1360	871	2310	5900	1920	31.0	67.0	104	230	156	15669
1952	224	212	327	2180	1510	94.0	0	0	0	0	874	126	5547
1953	140	130	312	426	2800	13.0	39.0	0	0	2280	111	86.0	6337
1954	154	121	138	334	391	0	13.0	.60	0	0	0	0	1152
1955	0	0	170	94.0	5090	5500	639	0	396	671	0	0	12560
1956	34.0	418	82.0	546	4900	54.0	0	0	0	87.0	0	132	6253
1957	0	972	100	12480	69370	16450	1820	78.0	37.0	570	870	626	103373
1958	940	778	1950	6600	16830	754	571	255	407	141	111	310	29647
1959	298	309	299	396	143	793	300	0	0	16760	827	849	20974
1960	5600	2250	1160	1030	1830	408	1330	20.0	4.60	7.30	59.0	176	13875
1961	671	766	1480	958	353	725	309	0	30.0	81.0	226	310	5909
1962	222	233	308	968	130	613	8980	9540	9780	2920	1040	1240	35974
1963	836	492	563	4890	4990	1440	137	.60	0	0	7.10	70.0	13426
1964	360	301	534	316	559	58.0	0	57.0	1580	77.0	3810	500	8152
1965	1580	3290	1230	1330	13670	1350	109	3.40	2100	188	281	446	25577
1966	464	1570	714	12070	20080	3540	685	281	493	287	333	413	40930
1967	385	393	482	457	452	257	2.00	0	165	40.0	392	373	3398
1968	697	908	13560	8360	8070	2020	982	352	855	272	474	562	37112
1969	656	909	7330	9820	13960	1380	633	309	3490	4000	1290	3600	47377
1970	3730	6700	21810	7610	5190	1440	158	7.70	500	411	437	583	48571
1971	603	516	455	380	518	78.0	665	283	135	1300	566	7220	12719
1972	1180	728	1030	1830	750	192	0	0	617	806	399	257	7789
1973	1450	2780	1570	3570	2580	3380	3370	5440	514	6870	2250	1230	35004
1974	964	994	1020	1080	1590	193	107	2500	1840	11290	32790	3330	57698
1975	3110	15680	4140	12180	4440	25170	4140	1060	602	-	-	-	-
MAX	5600	15680	21810	12480	69370	25170	8980	9540	12820	16760	32790	7220	103373
MIN	0	0	82.0	94.0	130	0	0	0	0	0	0	0	1152
MEAN	1140	2298	2751	3771	8349	3024	1226	855	1289	2104	1777	1011	29595
NO.	28	28	28	28	28	28	28	29	29	28	28	28	27
DISTR OF MEAN	3.9%	7.8%	9.3%	12.7%	28.2%	10.2%	4.1%	2.9%	4.4%	7.1%	6.0%	3.4%	100%

TRINITY RIVER BASIN

08046500 Benbrook Lake near Benbrook, Texas

LOCATION: Lat 32°39'02", long 97°26'54", Tarrant County, in the intake structure of Benbrook, Dam on the Clear Fork Trinity River, 2.5 mi (4.0 km) south of Benbrook, 3.5 mi (5.6 km) upstream from Marys Creek, and 14.6 mi (23.5 km) upstream from the mouth.

DRAINAGE AREA: 429 mi² (1,111 km²).

PERIOD OF RECORD: September 1952 to December 1975. Prior to October 1970, published as "Benbrook Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1952-75): Maximum contents, 185,000 ac-ft (228 km³) June 6, 1957 (elevation, 713.35 ft or 217.429 m); minimum contents since the lake was first filled in 1957, 64,630 ac-ft (79.7 km³) Sept. 15, 1964 (elevation, 687.18 ft or 209.452 m).

REMARKS: The lake is formed by a rolled earthfill dam 9,130 ft (2,780 m) long, including a 500-foot (150-m) uncontrolled off-channel concrete-gravity spillway with a 100-foot (30-m) notch in the center of an ogee weir section. The capacity of the lake is 88,250 ac-ft (108.8 km³). The outlet works consist of a 13.0-foot diameter (4.0-m) concrete conduit controlled by two 6.5- by 13.0-foot (2.0- by 4.0-m) broome-type gates and two 30-inch (762-millimeter) steel pipes controlled by slide gates. Deliberate impoundment began on Sept. 29, 1952. From August 1950 to Sept. 28, 1952, the lake was operated as a detention basin only. The lake was built for flood control, navigation, and low-flow regulation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1952	-	-	-	-	-	-	-	-	28.0	40.0	936	1020
1953	1050	1060	1480	2950	8880	8060	7560	7050	6580	8360	8280	8140
1954	8320	8200	7970	9360	9650	8790	7850	6900	6190	5730	5540	5380
1955	5270	5220	5280	5170	10730	16540	16090	15100	16040	15720	15040	14740
1956	14590	14820	14340	14470	20030	18820	17240	15770	14520	15050	14680	14890
1957	14840	15770	15900	64760	177100	99900	87470	81800	81110	82850	87690	87800
1958	88710	87500	87620	101300	86460	85310	85490	83400	83650	83220	82710	82420
1959	81070	80790	80360	82020	81660	82640	81440	78200	76660	87620	87470	88140
1960	86830	87430	84900	84860	86090	83940	84940	83180	80290	78480	76830	76940
1961	76760	79550	81180	82200	61510	83940	81580	77630	74860	75520	75350	75690
1962	75800	73260	72920	74480	72150	74340	82160	87690	87650	87500	87950	88250
1963	86250	86030	87800	91150	89240	86160	82740	79080	76900	74410	72950	71880
1964	73060	73220	75170	75690	75140	72580	69380	66800	70240	68730	77530	79330
1965	85050	89620	88440	88630	89580	88330	84450	80860	80570	79620	79370	79650
1966	79760	82060	82560	110900	107400	88590	87760	88400	88670	87540	87100	87020
1967	87020	86420	86870	87060	86350	85600	84020	81330	82060	80220	79550	79970
1968	89810	89510	85010	97210	97170	90310	90120	88940	88440	87020	86870	86920
1969	86610	87620	97370	90420	90310	91070	87760	85790	87990	90460	90650	93200
1970	88290	94970	92180	108100	89510	89010	85610	82560	82850	82130	81150	80430
1971	79160	79400	76040	75790	74450	72280	71540	71200	70040	79930	81550	94220
1972	87540	89890	90610	88900	87470	85420	83250	80710	79690	80890	81360	81550
1973	86050	89360	88400	97130	88520	88250	92570	88400	88290	89470	88670	87950
1974	90120	88060	89160	89200	89810	87500	80180	86020	89580	101900	88360	90350
1975	93200	90490	89610	88320	93500	88550	89120	86750	84860	83390	82550	82950
MAX	93200	94970	97370	110900	177100	99900	92570	88940	89580	101900	90650	94220
MIN	1050	1060	1480	2950	8880	8060	7560	6900	28.0	40.0	936	1020
MEAN	68137	68793	68747	74351	77944	72867	71318	69720	66573	67742	67506	68264
NO.	23	23	23	23	23	23	23	23	24	24	24	24
DISTR												
OF MEAN	6.1%	8.2%	6.2%	8.8%	9.3%	8.7%	8.5%	8.3%	7.9%	8.0%	8.0%	8.1%

TRINITY RIVER BASIN

08047000 Clear Fork Trinity River near Benbrook, Texas

LOCATION: Lat 32°39'54", long 97°26'30", Tarrant County, 1.5 mi (2.4 km) downstream from Benbrook Dam, 1.7 mi (2.7 km) southeast of Benbrook, and 2.9 mi (4.7 km) upstream from Marys Creek.

DRAINAGE AREA: 431 mi² (1,116 km²).

PERIOD OF RECORD: July 1947 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 604.22 ft (184.166 m) above mean sea level.

AVERAGE DISCHARGE: 29 years, 52,081 ac-ft/yr (64.2 km³/yr).

EXTREMES: Period of record (1947-75): Maximum discharge, 82,900 ft³/s (2,350 m³/s) May 17, 1949 (gage height, 28.72 ft or 8.754 m); no flow at times most years.

Maximum discharge since construction of Benbrook Dam in 1957, 4,350 ft³/s (123 m³/s) June 26, 1957 (gage height, 11.28 ft or 3.438 m).

Maximum stage known since at least 1922, that of May 17, 1949.

REMARKS: Records good. The flow is regulated by Benbrook Lake (station 08046500) since September 1952.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	365	47.0	491	957	609	6740	-
1948	6920	24420	15340	3140	4640	1920	2460	41.0	8.50	0	0	98.0	56988
1949	667	5000	15870	6430	169100	16140	2290	815	977	7540	1250	1190	167269
1950	5130	20430	5460	19670	24420	4230	6770	4410	16730	2230	1340	1380	112200
1951	1280	1570	1420	1130	2370	10970	1990	28.0	43.0	79.0	252	272	21404
1952	223	362	332	2960	6950	446	36.0	28.0	1.20	0	46.0	13.0	11397
1953	0	0	8.70	53.0	76.0	0	1.80	0	0	446	21.0	2.60	608
1954	0	0	65.0	27.0	116	255	266	303	254	210	72.0	87.0	1655
1955	85.0	60.0	77.0	81.0	149	111	215	279	270	256	171	48.0	1802
1956	90.0	291	54.0	136	165	191	248	300	353	244	70.0	89.0	2231
1957	35.0	40.0	85.0	562	11810	107300	12060	3290	694	125	386	2440	138827
1958	2770	3240	7730	5190	47170	668	480	617	372	339	377	860	69813
1959	1700	1080	10.0	6.10	0	0	126	1240	753	11320	2160	5460	23855
1960	18690	5860	5830	1920	696	708	507	466	874	654	401	681	37287
1961	2700	1770	5380	964	173	1190	1120	1700	1440	147	100	396	17080
1962	179	3170	501	394	891	8.90	12.0	831	9760	1200	53.0	706	17706
1963	238	251	495	1890	6020	2420	915	1110	350	771	511	361	15332
1964	44.0	23.0	394	869	864	787	1070	1130	1370	423	122	55.0	7151
1965	1360	18550	6560	3350	32910	4450	1720	1650	851	454	449	30.0	72334
1966	41.0	40.0	419	654	40800	33310	415	151	66.0	1890	12.0	25.0	77823
1967	25.0	250	12.0	28.0	683	654	642	382	1110	567	602	97.0	5052
1968	691	6680	42320	495	29190	10250	116	127	40.0	317	397	296	90919
1969	58.0	20.0	44.0	19620	37850	141	1340	264	66.0	46.0	18.0	1540	61007
1970	10420	6070	46010	275	28360	1450	882	980	105	66.0	3.20	426	95047
1971	923	6.30	2630	594	1020	566	998	6.30	11.0	264	28.0	35240	42287
1972	15680	29.0	10.0	5210	1970	91.0	125	506	79.0	127	118	60.0	24005
1973	66.0	4640	8810	10670	15140	19310	940	5340	48.0	5140	2200	1350	73654
1974	1930	3830	32.0	88.0	570	1460	5350	567	85.0	6990	55430	5010	81342
1975	5550	36200	7940	23830	2810	47510	5140	1470	320	37.0	102	12.0	130921
MAX	18690	36200	46010	23830	109100	107300	12060	5340	16730	11320	55430	35240	167269
MIN	0	0	8.10	6.10	0	0	1.80	0	0	0	0	2.60	608
MEAN	2768	5139	6209	3937	14533	9519	1676	968	1294	1477	2321	2240	52081
NO.	28	28	28	28	28	28	29	29	29	29	29	29	28
DISTR													
OF MEAN	5.3%	9.9%	11.9%	7.6%	27.9%	18.3%	3.2%	1.9%	2.5%	2.8%	4.5%	4.3%	100%

TRINITY RIVER BASIN

08047500 Clear Fork Trinity River at Fort Worth, Texas

LOCATION: Lat 32°43'56", long 97°21'31", Tarrant County, at the Fort Worth pumping station, 240 ft (73 mi) upstream from the Texas and Pacific Railway Co. bridge in Fort Worth, 830 ft (253 mi) upstream from the East-West Expressway bridge, 2.5 mi (4.0 km) upstream from the mouth, 5 mi (8 km) downstream from Marys Creek, and 10 mi (16 km) downstream from Benbrook Dam.

DRAINAGE AREA: 518 mi² (1,342 km²).

PERIOD OF RECORD: March 1924 to December 1976.

GAGE: Water-stage recorder and concrete control. Datum of gage is 532.91 ft (162,431 m) above mean sea level, datum of 1928. Prior to Apr. 3, 1970, various nonrecording and recording gages within 650 ft (198 m) of present site at different datums.

AVERAGE DISCHARGE: 52 years, 76,114 ac-ft/yr (93.8 hm³/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 107,000 ft³/s (3,030 m³/s) May 17, 1949 (gage height, 28.20 ft or 8.595 m, present datum); no flow at times most years.

Maximum stage since at least 1900, 28.20 ft (8.595 m) May 17, 1949, present datum.

REMARKS: Records good. The flow is largely regulated by Benbrook Lake (station 08046500).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	25700	12700	16800	5820	431	1140	0	0	0	0	-
1925	281	314	406	4810	24100	145	0	0	0	2620	516	12.3	33204
1926	3070	301	3000	10300	6160	1690	1990	4610	6200	418	146	518	38403
1927	349	510	3730	2860	479	826	43.0	.20	148	2360	4.20	304	11633
1928	357	7480	3070	25300	1540	3270	738	315	52.0	0	190	92.80	51592
1929	3900	14700	11200	9100	14000	5150	302	17.0	1.80	0	0	2.77	58648
1930	36.0	64.0	337	79.0	29400	1050	7.40	0	0	4590	666	48.90	41119
1931	1760	8280	10900	6720	3030	1430	512	97.8	4.20	3.10	0	65.0	32802
1932	45900	39300	10200	3230	6210	6720	9220	298	15600	504	744	48.90	142816
1933	6460	6610	19200	5520	11600	1550	3520	1880	372	33.0	0	2.09	56954
1934	713	739	3790	3548	2650	20.0	1.20	0	0	0	176	.80	11630
1935	2870	995	1690	1480	75800	14570	950	7.30	1420	695	977	25.90	104044
1936	893	722	427	170	6080	256	0	0	27150	6590	3050	47.50	50088
1937	4740	2100	9540	2760	994	6090	378	0	40.0	1330	1000	76.00	36572
1938	27900	38960	26290	17220	7530	2080	1320	97.2	2.00	0	0	.80	121400
1939	158	268	301	5180	5260	1450	536	49.0	0	0	0	12.0	13214
1940	0	0	0	741	5020	5010	9450	955	6.10	0	11850	338.80	66412
1941	9970	46780	16300	14490	22040	35740	4500	4960	421	3710	1320	20.10	162241
1942	1510	1160	1330	123900	52270	19090	1830	1550	2540	21740	4990	40.70	235980
1943	2890	1960	8650	7820	18200	7910	303	.80	2780	29.0	0	3.02	50845
1944	676	10040	6150	4730	28950	3530	455	1320	864	2140	1080	32.00	63135
1945	6620	59600	76470	60620	12380	4560	4640	500	340	2110	1300	11.80	230320
1946	4080	11290	7670	3960	14240	6030	332	3150	846	1960	25660	223.00	101518
1947	10100	5150	10550	10780	4920	8950	634	117	1120	805	695	76.10	61431
1948	8640	34340	19660	4020	5730	2330	2660	0	.40	.60	0	5.40	77386
1949	667	8200	21570	8740	141600	23330	3000	977	940	9850	1490	13.30	221694
1950	7130	28780	7100	26630	32910	5250	7800	5300	22360	2420	1490	17.40	148910
1951	1540	1950	1560	1110	2980	13030	2130	.80	.40	0	12.0	1.96	24509
1952	380	838	646	4050	7940	441	6.00	63.0	14.0	0	775	364	15517
1953	215	158	290	1410	2030	16.0	618	541	86.0	1190	382	142	7078
1954	234	180	248	186	604	36.0	46.0	33.0	16.0	101	50.0	1.36	1870
1955	198	300	690	304	1010	1350	107	108	251	226	115	127	4786
1956	152	442	56.0	642	2940	630	57.0	41.0	61.0	577	64.0	3.69	6031
1957	140	590	837	26840	51310	125900	15160	2970	1050	1030	1790	33.70	230987
1958	3590	3170	9980	11970	61140	1240	1130	988	1150	1240	1030	12.30	97858
1959	1650	1520	261	549	210	1440	824	1450	994	19610	3440	79.20	39868
1960	25610	9050	7040	2980	1370	799	1430	1230	983	1080	507	14.10	53489
1961	4440	3760	7360	2140	662	4920	1790	1770	2280	1790	625	11.00	32637
1962	679	3990	1010	1600	998	497	1620	3070	14570	2850	848	16.70	33402
1963	750	525	827	3660	8250	3100	1140	1270	697	601	524	5.78	21922
1964	903	540	2510	1710	2210	783	1160	2090	8310	760	3090	19.20	25986
1965	4620	28610	9030	4780	44520	5140	2650	1780	1630	857	998	4.62	105077
1966	367	693	1000	13460	50180	38780	1160	2070	617	2970	314	2.91	111902
1967	529	478	429	1450	2250	768	769	147	1470	1030	829	12.10	11359
1968	3550	7800	50420	3970	34130	12850	1270	313	462	909	836	4.47	116957
1969	564	1090	5780	25480	45980	1570	1470	654	3280	1990	967	42.00	93025
1970	12530	12490	58620	6990	32560	2150	1130	1510	2590	676	238	8.00	132284
1971	977	530	2780	1650	2000	864	2630	853	221	4060	1320	433.90	61275
1972	15030	1210	692	5230	2390	185	55.0	477	700	2990	1230	6.87	30876
1973	2450	8360	12550	14540	16440	25980	5930	5550	909	8260	3460	23.60	106789

TRINITY RIVER BASIN

08047500 Clear Fork Trinity River at Fort Worth, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	3080	4590	828	569	1700	3070	5010	3660	3260	12410	64820	8260	111257
1975	9290	47290	12380	33090	7200	57230	9410	2630	975	91.0	404	632	180572
MAX	45900	59600	76470	123900	141600	125900	15160	5550	27150	21740	64820	43390	235980
MIN	0	0	0	79.0	210	16.0	0	0	0	0	0	0	1670
MEAN	4806	9192	9482	10534	17940	9166	2197	1204	2496	2524	2808	3765	76114
NO.	51	51	52	52	52	52	52	52	52	52	52	52	51
DISTR OF MEAN	6.3%	12.1%	12.5%	13.8%	23.6%	12.0%	2.9%	1.6%	3.3%	3.3%	3.7%	4.9%	100%

TRINITY RIVER BASIN

0B048000 West Fork Trinity River at Fort Worth, Texas

LOCATION: Lat 32°45'39", long 97°19'58", Tarrant County, 125 ft (38 m) upstream from the Texas Electric Service Co.'s concrete dam, 980 ft (299 m) downstream from the centerline of Paddock Viaduct (North Main Street) at Fort Worth, and 2,600 ft (792 m) downstream from the Clear Fork Trinity River.

DRAINAGE AREA: 2,615 mi² (6,773 km²).

PERIOD OF RECORD: October 1920 to December 1975.

GAGE: Water-stage recorder and concrete dam control with angle-iron-crested notch for flow below 50 ft³/s (1.42 m³/s). Datum of gage is 519.24 ft (158.264 m) above mean sea level. Prior to Aug. 22, 1954, at site 1,200 ft (366 m) upstream at same datum. Aug. 22, 1954 to Oct. 15, 1955, at site 2,000 ft (610 m) upstream at same datum.

AVERAGE DISCHARGE: 56 years, 273,038 ac-ft/yr (336.6 hm³/yr).

EXTREMES: Period of record (1920-75): Maximum discharge, 85,000 ft³/s (2,410 m³/s) Apr. 25, 1922 (gage height, 23.95 ft or 7.300 m, site then in use); maximum gage height, 25.91 ft (7.897 m) May 17, 1949, site then in use (discharge, 64,300 ft³/s or 1,820 m³/s); no flow at times.

Maximum stage since at least 1855, that of May 17, 1949. Maximum stages have been affected by levee construction, levee breaks, and channel rectification.

REMARKS: Records good. The flow is largely regulated by six major upstream reservoirs with a combined capacity of 738,500 ac-ft (91.1 hm³), of which 76,650 ac-ft (94.4 hm³) is for flood control. There are many small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1920	-	-	-	-	-	-	-	-	-	45500	18400	17800	-
1921	31500	45100	28100	41600	83000	33000	33800	818	714	996	1350	799	226077
1922	644	766	1460	261000	208000	30900	5520	726	415	324	2170	948	512873
1923	1840	11200	6480	117000	57400	124000	1180	240	575	27200	88000	76600	511715
1924	9470	7530	79200	37400	30800	10600	721	1120	404	430	542	793	179010
1925	695	766	509	4640	68200	422	898	57.0	137	5110	4700	780	86914
1926	14800	1970	37400	47300	29500	21700	26700	45200	50500	16600	1450	40500	333620
1927	17700	26500	67600	124000	9810	9510	11000	1560	4340	23900	637	6890	303447
1928	3060	10700	4810	31200	26000	75600	45100	17600	1410	89.0	8690	18400	242659
1929	18900	19700	18700	18100	117000	42100	532	39.0	215	125	744	3410	239565
1930	374	755	726	459	138000	52800	435	176	0	88500	4070	49600	335895
1931	4440	36300	43800	33200	12300	7680	5200	1590	127	43300	14200	24900	227037
1932	160000	139000	32200	6250	46000	27100	97800	910	44500	1060	934	19700	575454
1933	39000	10100	80600	31200	55600	70200	4530	2370	25600	357	4860	4780	329197
1934	4680	3580	6520	6490	5180	2130	4140	3380	296	114	539	309	37358
1935	3200	1660	2360	2100	117000	75800	51810	21480	8620	5250	1290	13820	304390
1936	17600	1230	1360	1510	43740	32740	5860	362	36610	70160	35950	5730	252852
1937	5410	9180	21070	8730	1220	14930	598	3260	7600	7240	4790	11410	95438
1938	46630	62790	46440	96880	14870	5440	8550	8430	4090	9190	4760	412	308282
1939	14250	1370	6690	7640	8990	4380	705	303	609	7.30	261	418	45823
1940	412	321	290	1760	6880	8210	48710	9650	121	119	16080	102100	194653
1941	23540	93490	44270	60740	120500	322600	186300	44040	31680	90840	64310	29170	1111480
1942	44210	18970	20110	352900	305500	145500	62150	21210	47030	51260	50360	6330	1105530
1943	3520	2410	21450	38830	48630	46130	732	2010	5470	1520	637	1070	172400
1944	1960	22710	42790	16920	70870	12760	5120	8460	11880	7630	5950	9630	216680
1945	12350	117800	190800	163800	50910	12850	63420	17890	11660	59850	24290	16590	742210
1946	53160	59190	34400	16880	34720	31300	4020	28440	9840	3840	50710	54340	380840
1947	31780	15380	16280	29650	23260	11870	6780	17060	16650	16450	3020	13340	201520
1948	23830	45960	47290	6140	8130	8370	11160	6860	5520	2780	2330	2480	170830
1949	4310	10880	24230	12730	181400	61400	10020	5640	10810	28440	16570	7520	373950
1950	12360	40640	13480	41160	101300	23690	64390	89000	76720	38890	38720	9590	549940
1951	7900	5380	10870	4630	6420	35790	8950	5400	3730	3580	2590	2810	98050
1952	2990	3470	3180	8210	11400	2860	2320	1870	2530	2400	4360	3080	48650
1953	2710	2250	2680	4340	4470	612	2570	1350	697	3160	1490	825	27154
1954	951	780	925	701	1910	341	109	312	461	446	447	484	7867
1955	653	1110	1520	710	3380	4100	576	246	660	542	217	429	14143
1956	549	1320	439	1450	5210	1080	82.0	0	0	1660	600	1580	13970
1957	762	1790	2340	33660	364000	382600	17770	5810	3180	2590	24310	16330	855142
1958	16010	11860	37110	43710	218500	4030	2170	1890	6730	3290	2250	2930	350480
1959	3000	2170	1230	1440	934	4060	1250	1820	1270	135000	5820	9270	167264
1960	69340	28820	11430	4420	5630	1130	2310	2260	1350	1940	931	3400	132961
1961	8030	6050	9710	3050	1770	6630	3410	2120	3340	3790	1760	2220	51880
1962	16880	6070	1930	3380	1570	1930	11120	20220	147700	20910	3870	44290	284670
1963	1670	1120	1600	8030	25830	5550	1650	1610	1290	895	954	1300	51499
1964	2240	1420	4840	2790	4060	1120	1650	3440	13670	1670	26220	3020	66140
1965	9920	49150	14450	7150	72340	6950	2640	2250	3460	2250	2250	1550	174360
1966	1020	2150	1970	23250	208400	68190	5680	3940	3260	7069	789	1150	326859
1967	948	776	1510	3480	2980	1650	1780	547	3850	2040	1280	2220	23061
1968	7720	11260	105500	78060	73480	21370	7230	2590	2250	2420	2930	2090	316920
1969	1530	2820	34770	74570	171700	6980	3110	2290	7120	5940	2550	6130	319510

TRINITY RIVER BASIN

08048000 West Fork Trinity River at Fort Worth, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	25220	16950	122500	41600	79750	2930	1840	1870	9670	4620	1060	1680	309690
1971	2250	1240	3950	3370	3900	1400	3760	2070	968	7690	2750	72700	106048
1972	18720	1770	1490	7170	3490	701	442	1260	1590	7840	2850	1410	48733
1973	4350	10340	16490	21440	37560	45400	11370	14400	3050	15390	4680	3460	187930
1974	3630	5830	1610	1450	3190	7180	5070	6390	6040	19940	197200	8350	265880
1975	7260	84160	20680	61490	26060	126900	38450	14590	641	218	397	1230	382076
MAX	160000	139000	190800	332900	364000	382600	186300	89000	147700	135000	197200	102100	1111480
MIN	374	321	290	459	934	341	82.0	0	0	7.30	217	309	7867
MEAN	14667	19600	24660	37123	59781	37585	16454	8371	11685	16149	13676	13287	273038
NO.	55	55	55	55	55	55	55	55	55	56	56	56	55
DISTR													
OF MEAN	5.4%	7.2%	9.0%	13.6%	21.9%	13.6%	6.0%	3.1%	4.3%	5.9%	5.0%	4.9%	100%

TRINITY RIVER BASIN

08048500 Marine Creek at Fort Worth, Texas

LOCATION: Lat 32°48'16", long 97°21'48", Tarrant County, at the bridge on Northwest 32nd Street in Fort Worth, 1.5 mi (2.4 km) upstream from the North Main Street bridge, 2.2 mi (3.5 km) upstream from the St. Louis-Southwestern Railway Co. bridge, and 2.4 mi (3.8 km) upstream from the mouth.

DRAINAGE AREA: 16.8 mi² (43.5 km²).

PERIOD OF RECORD: July 1950 to September 1958.

GAGE: Water-stage recorder. Datum of gage is 582.6 ft (160.5 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 2,685 ac-ft/yr (3.3 hm³/yr).

EXTREMES: Period of record (1950-68): Maximum discharge 4,800 ft³/s (130.27 m³/s) May 25, 1957 (gage height, 5.55 ft or 1.7 m); no flow many days each year.

Maximum stage known since at least 1907, 16.1 ft (4.9 m) April 20, 1942, from floodmarks by slope-area measurement (discharge, 24,400 ft³/s or 691.0 m³/s).

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	-	-	-	-	-	-	43.0	21.0	21.0	2.80	3.40	5.20	-
1951	3.80	14.0	7.50	9.1	31.0	57.0	19.0	0	2.00	0	0	3.80	147
1952	5.20	6.00	11.0	33.0	22.0	1.00	0	.60	5.40	0	18.0	20.0	122
1953	7.90	3.80	35.0	115	122	0	28.0	3.60	15.0	201	26.0	31.0	588
1954	29.0	25.0	11.0	23.0	59.0	1.40	0	0	0	0	1.00	3.00	152
1955	4.40	12.0	17.0	2.40	69.0	125	.20	0	5.40	5.40	0	5.00	246
1956	13.0	22.0	3.40	37.0	480	6.70	0	0	0	37.0	18.0	22.0	639
1957	7.50	25.0	52.0	3820	8430	3140	50.0	0	14.0	24.0	51.0	66.0	15680
1958	115	83.0	1000	1160	1360	13.0	48.0	34.0	34.0	-	-	-	-
MAX	115	83.0	1000	3820	8430	3140	50.0	34.0	34.0	201	51.0	66.0	15680
MIN	3.80	3.80	3.40	2.40	22.0	0	0	0	0	0	0	3.00	122
MEAN	23.2	23.8	142	650	1322	418	20.9	6.58	10.8	33.8	14.7	19.5	2685
NO.	8	8	8	8	8	8	9	9	9	8	8	8	7
DISTR OF MEAN	.9%	.9%	5.3%	24.2%	49.2%	15.6%	.8%	.2%	.4%	1.3%	.5%	.7%	100%

TRINITY RIVER BASIN

08048520 Sycamore Creek at Interstate Highway 35-W at Fort Worth, Texas

LOCATION: Lat 32°39'55", long 97°19'16", Tarrant County, at the bridge on the frontage road on the upstream side of Interstate Highway 35-W, 6.8 mi (9.3 km) south of the Fort Worth City Hall, and 8.9 mi (14.3 km) upstream from the mouth.

DRAINAGE AREA: 17.7 mi² (45.8 km²).

PERIOD OF RECORD: October 1969 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 7 years, 6,783 ac-ft/yr (8.4 hm³/yr).

EXTREMES: Period of record (1969-75): Maximum discharge, 5,450 ft³/s (154 m³/s) Oct. 19, 1971 (elevation, 639.77 ft or 195.002 m); no flow at times.

Flood in 1903 reached an elevation of 646.9 ft (196.87 m).

REMARKS: Records good. The flow is slightly affected by several small farm ponds on tributaries above the station. At times, the low flow may be sustained by the effluents from several commercial establishments above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	-	-	-	-	-	-	-	-	-	263	63.0	330	-
1970	181	1480	2300	1080	708	130	1.90	44.0	512	98.0	10.0	33.0	6578
1971	13.0	69.0	8.50	202	250	190	494	215	63.0	2410	193	3070	7178
1972	195	37.0	32.0	994	220	30.0	2.00	32.0	52.0	712	372	69.0	2747
1973	276	251	636	1640	437	2620	1330	91.0	270	1160	216	103	9030
1974	379	186	49.0	73.0	494	851	11.0	910	833	1920	1120	257	6583
1975	1200	2350	281	1550	2030	1690	284	35.0	47.0	2.10	77.0	105	9651
MAX	1200	2350	2300	1640	2030	2620	1330	910	833	2410	1120	3070	9651
MIN	13.0	37.0	8.50	73.0	220	30.0	1.90	32.0	47.0	2.10	10.0	33.0	2747
MEAN	374	729	551	923	690	919	354	221	296	866	293	567	6783
NO.	6	6	6	6	6	6	6	6	6	7	7	7	6
DISTR													
OF MEAN	5.5%	10.7%	8.1%	13.6%	10.2%	13.5%	5.2%	3.3%	4.4%	12.8%	4.3%	8.4%	100%

TRINITY RIVER BASIN

08048530 Sycamore Creek Tributary above Seminary South Shopping Center at Fort Worth, Texas

LOCATION: Lat 32°41'08", long 97°19'44", Tarrant County, near the entrance to a culvert under the Missouri, Kansas, and Texas Railroad Co. bridge, 0.2 mi (0.3 km) northeast of the bridge at the intersection of Hemphill Street and Seminary Drive in Fort Worth, 1.8 mi (2.9 km) upstream from the mouth, and 4.5 mi (7.2 km) south of the Fort Worth City Hall.

DRAINAGE AREA: 0.97 mi² (2.51 km²).

PERIOD OF RECORD: October 1969 to December 1975.

GAGE: Water-stage recorder with concrete weir and culvert control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 7 years, 474 ac-ft/yr (0.6 hm³/yr).

EXTREMES: Period of record (1969-75): Maximum discharge, 584 ft³/s (16.5 m³/s) Oct. 19, 1971 (elevation, 655.49 ft or 199.793 m); no flow at times in July and August 1970.

Maximum stage since 1966, about 656.0 ft (199.95 m) in August 1966 (discharge not determined), from information by a local resident.

REMARKS: Records poor. The low flow is sustained by effluents from several commercial establishments above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	-	-	-	-	-	-	-	-	-	58.0	8.80	34.0	-
1970	11.0	87.0	76.0	92.0	35.0	5.20	3.80	40.0	98.0	14.0	5.10	8.00	475
1971	6.10	16.0	3.70	25.0	28.0	11.0	55.0	42.0	16.0	118	27.0	155	503
1972	13.0	22.0	7.00	52.0	22.0	9.00	3.00	10.0	18.0	58.0	36.0	13.0	263
1973	49.0	35.0	48.0	95.0	27.0	140	123	5.70	37.0	85.0	19.0	12.0	676
1974	19.0	13.0	4.60	17.0	35.0	50.0	8.80	73.0	70.0	76.0	45.0	23.0	434
1975	53.0	68.0	26.0	84.0	108	63.0	33.0	24.0	13.0	2.50	15.0	23.0	513
MAX	53.0	87.0	76.0	95.0	108	140	123	73.0	98.0	118	45.0	155	676
MIN	6.10	13.0	3.70	17.0	22.0	5.20	3.00	5.70	13.0	2.50	5.10	8.00	263
MEAN	25.2	40.2	27.5	60.8	42.5	46.4	37.8	32.4	42.0	58.8	22.3	38.3	474
NO.	6	6	6	6	6	6	6	6	6	7	7	7	6
DISTR OF MEAN	5.3%	8.5%	5.8%	12.8%	9.0%	9.8%	8.0%	6.8%	8.9%	12.4%	4.7%	8.1%	100%

TRINITY RIVER BASIN

08048540 Sycamore Creek Tributary at Interstate Highway 35-W at Fort Worth, Texas

LOCATION: Lat 32°41'18", long 97°19'11", Tarrant County, at a culvert on the downstream side of the access road to Interstate Highway 35-W, 0.3 mi (0.5 km) north of the bridge on Seminary Drive in Fort Worth, 1.2 mi (1.9 km) upstream from the mouth, and 4.3 mi (6.9 km) south of the Fort Worth City Hall.

DRAINAGE AREA: 1.35 mi² (3.50 km²).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 7 years, 826 ac-ft/yr (1.0 hm³/yr).

EXTREMES: Period of record (1969-75): Maximum discharge, 1,100 ft³/s (31.2 m³/s) Oct. 19, 1971 (elevation, 628.41 ft or 191.539 m); minimum daily, 0.01 ft³/s (0.0003 m³/s) for many days in 1970-71.

Maximum elevation since 1969, that of Oct. 19, 1971.

REMARKS: Records fair. Records include the runoff from a shopping center. The low flow is sustained by effluents from several commercial establishments and industry above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	-	-	-	-	-	-	-	-	-	94.0	14.0	61.0	-
1970	16.0	144	124	120	67.0	16.0	11.0	45.0	154	33.0	7.50	18.0	756
1971	9.4	20.0	4.60	51.0	69.0	27.0	116	79.0	33.0	239	54.0	2.62	964
1972	26.0	36.0	19.0	101	34.0	25.0	8.00	26.0	31.0	103	52.0	17.0	478
1973	60.0	47.0	75.0	129	49.0	231	237	11.0	68.0	152	33.0	19.0	1111
1974	33.0	22.0	8.90	27.0	66.0	115	17.0	155	112	120	69.0	32.0	777
1975	100	127	35.0	125	186	117	62.0	49.0	32.0	4.80	36.0	32.0	906
MAX	100	144	124	129	186	231	237	155	154	239	69.0	2.62	1111
MIN	9.4	20.0	4.60	27.0	34.0	16.0	8.00	11.0	31.0	4.80	7.50	17.0	478
MEAN	40.7	66.0	44.4	92.2	78.5	88.5	75.2	60.8	71.7	107	37.9	63.0	826
NO.	6	6	6	6	6	6	6	6	6	7	7	7	6
DISTR													
OF MEAN	4.9%	8.0%	5.4%	11.2%	9.5%	10.7%	9.1%	7.4%	8.7%	12.9%	4.6%	7.6%	100%

TRINITY RIVER BASIN

08048600 Dry Branch at Fain Street at Fort Worth, Texas

LOCATION: Lat 32°48'34", long 97°17'18", Tarrant County, 30 ft (9 m) upstream from a culvert on Fain Street, at the bridge at the intersection of Fain and Beach Streets in Fort Worth, 1.1 mi (1.8 km) upstream from the mouth, and 2.9 mi (4.7 km) northeast of the Tarrant County Courthouse.

DRAINAGE AREA: 2.16 mi² (5.57 km²).

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder and concrete culvert control. Datum of gage is 537.51 ft (163.833 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 1,137 ac-ft/yr (1.4 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 447 ft³/s (12.7 m³/s) July 26, 1975 (gage height, 5.86 ft or 1.786 m); no flow at times.

Maximum stage since April 1964, 9.0 ft (2.74 m) in April 1966 at the upstream side of a Fain Street culvert, from information by a local resident.

REMARKS: Records good. The low flow is sustained by the effluents from several commercial establishments and industry above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	42.0	115	42.0	-
1969	68.0	84.0	129	161	281	65.0	40.0	94.0	132	118	25.0	79.0	1276
1970	28.0	169	157	197	143	13.0	22.0	23.0	207	34.0	12.0	16.0	1021
1971	20.0	40.0	12.0	86.0	53.0	18.0	36.0	100	35.0	270	89.0	420	1179
1972	28.0	9.00	7.00	67.0	33.0	26.0	10.0	16.0	41.0	201	69.0	18.0	525
1973	109	93.0	134	214	72.0	335	292	7.70	78.0	171	20.0	16.0	1542
1974	39.0	37.0	15.0	78.0	91.0	96.0	16.0	212	204	254	157	36.0	1237
1975	66.0	218	39.0	163	176	84.0	352	60.0	25.0	7.70	42.0	42.0	1275
MAX	109	218	157	214	281	335	352	212	207	270	157	420	1542
MIN	20.0	9.00	7.00	67.0	33.0	13.0	10.0	7.70	25.0	7.70	12.0	16.0	525
MEAN	51.1	92.9	70.4	138	121	91.0	110	73.2	103	137	66.1	83.6	1137
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	4.5%	8.2%	6.2%	12.1%	10.7%	8.0%	9.7%	6.4%	9.1%	12.1%	5.8%	7.4%	100%

TRINITY RIVER BASIN

08048800 Big Fossil Creek at Haltom City, Texas

LOCATION: Lat 32°48'28", long 97°14'54", Tarrant County, at the bridge on State Highways 121 and 183, near the east boundary of Haltom City, 1.5 mi (2.4 km) upstream from the Chicago, Rock Island, and Pacific Railroad Co. bridge, 2.0 mi (3.2 km) upstream from Little Fossil Creek, and 3.5 mi (5.6 km) upstream from the mouth.

DRAINAGE AREA: 52.8 mi² (137 km²).

PERIOD OF RECORD: January 1959 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 489.48 ft (149.19 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1967, at same site at a datum 2.00 ft (0.61 m) higher.

AVERAGE DISCHARGE: 15 years, 15,093 ac-ft/yr (18.6 hm³/yr).

EXTREMES: Period of record (1959-73): Maximum discharge, 27,000 ft³/s (766 m³/s) Sept. 7, 1962, gage height, 26.90 ft (8.20 m), present datum; no flow at times most years.

Maximum stage since at least 1900 and prior to the channel rectification, that of Sept. 7, 1962.

REMARKS: Records fair. The channel rectification and improvement was completed in the vicinity of the gage during the 1966 water year.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	11.0	6.70	16.0	10.0	7.30	112	2.80	0	3.00	7100	222	357	7848
1960	1290	553	271	2310	1420	41.0	10.0	3.00	0	3.40	0	30.0	5931
1961	807	1100	1090	176	184	6810	216	5.00	24.0	68.0	46.0	1.82	10708
1962	68.0	59.0	111	340	35.0	11.0	3200	4000	12440	181	1090	5.23	22058
1963	258	82.0	128	831	193	21.0	1.00	0	.40	0	6.20	11.0	1532
1964	25.0	15.0	248	73.0	799	60.0	37.0	241	2940	41.0	2090	8.82	7451
1965	3770	6030	695	423	2640	236	0	19.0	361	59.0	24.0	52.0	14309
1966	63.0	532	200	12610	6810	746	58.0	85.0	240	161	23.0	31.0	21559
1967	35.0	29.0	64.0	1980	1220	43.0	91.0	1.60	50.0	285	24.0	1.19	3942
1968	1490	547	7660	1310	4500	342	147	248	77.0	59.0	358	1.78	16916
1969	939	1220	2870	4380	11440	289	64.0	108	198	928	87.0	5090	27613
1970	551	6280	6930	10540	7110	2660	43.0	44.0	1840	124	33.0	68.0	36223
1971	109	99.0	77.0	211	60.0	28.0	40.0	491	102	5360	808	18660	26045
1972	587	576	512	208	53.0	22.0	11.0	5.00	12.0	660	216	29.0	2891
1973	691	1280	1220	2660	2250	4630	4430	98.0	809	-	-	-	-
MAX	3770	6280	7660	12610	11440	6810	4430	4000	12440	7100	2090	18660	36223
MIN	11.0	6.70	16.0	10.0	7.30	11.0	0	0	0	0	0	11.0	1532
MEAN	713	1227	1473	2537	2581	1070	557	357	1273	1074	359	1872	15093
NO.	15	15	15	15	15	15	15	15	15	14	14	14	14
DISTR OF MEAN	4.7%	8.1%	9.8%	16.8%	17.1%	7.1%	3.7%	2.4%	8.4%	7.1%	2.4%	12.4%	100%

TRINITY RIVER BASIN

09048850 Little Fossil Creek at Mesquite Street at Fort Worth, Texas

LOCATION: Lat 32°48'33", long 97°17'28", Tarrant County, at the bridge at the intersection of Mesquite Street and Broadway Avenue in Fort Worth, 150 ft (46 m) upstream from the bridge on Alta Vista Road (Beach Street), 4.3 mi (6.9 km) northeast of the Tarrant County Courthouse, and 4.3 mi (6.9 km) upstream from Big Fossil Creek.

DRAINAGE AREA: 12.3 mi² (31.9 km²).

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 548.62 ft (167.219 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 4,306 ac-ft/yr (5.3 km³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 5,360 ft³/s (152 m³/s) July 25, 1975 (gage height, 12.22 ft or 3.725 m); no flow at times each year.

Maximum stage since 1900 occurred on Apr. 25, 1922 (gage height and discharge unknown), from information by local residents.

REMARKS: Records good. The flow is slightly regulated by several small farm ponds located on tributaries above the station. The low flow is sustained at times by the effluent from an industrial park located 2.6 mi (4.2 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	35.0	143	75.0	-
1969	223	275	931	777	1630	79.0	7.60	63.0	149	192	54.0	474	4855
1970	159	1270	1090	1310	310	37.0	.90	.90	508	49.0	14.0	19.0	4768
1971	32.0	42.0	33.0	181	122	5.40	.50	140	5.70	668	180	29.30	4340
1972	113	40.0	28.0	45.0	15.0	5.00	4.00	3.00	8.00	593	189	43.0	1086
1973	359	341	496	852	382	1070	1220	59.0	118	837	238	162	6134
1974	128	164	127	170	202	177	.40	275	1270	1370	948	213	5044
1975	232	1180	172	759	455	286	1570	64.0	22.0	.10	29.0	96.0	4865
MAX	359	1270	1090	1310	1630	1070	1570	275	1270	1370	948	29.30	6134
MIN	32.0	40.0	28.0	45.0	15.0	5.00	.40	.90	5.70	.10	14.0	19.0	1086
MEAN	178	473	411	585	445	237	400	86.4	297	468	224	5.02	4306
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR													
OF MEAN	4.1%	11.0%	9.5%	13.6%	10.3%	5.5%	9.3%	2.0%	6.9%	10.9%	5.2%	11.6%	100%

TRINITY RIVER BASIN

08049000 Villaga Creek near Handley, Texas

LOCATION: Lat 32°42', long 97°13', Tarrant County, at the Fort Worth-Webb Road Crossing, and 3.5 mi (5.6 km) south of Handley.

DRAINAGE AREA: 130 mi² (336.7 km²).

PERIOD OF RECORD: June 1925 to February 1930.

GAGE: Staff gage. Datum of gage is 504.98 ft (153.9 m) above mean sea level.

AVERAGE DISCHARGE: 6 years, 18,130 ac-ft/yr (22.4 km³/yr).

EXTREMES: Period of record (1925-30): Maximum stage, 17.9 ft (5.4 m) December 17, 1928; no flow during several periods.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

Y, P	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1925	-	-	-	-	-	0	0	40	73.2	634	137	5.40	-
1926	1960	38.7	2310	10100	4440	2770	518	512	367	12.3	38.9	39.5	23106
1927	45.0	281	880	1730	905	234	59.7	794	688	4730	89.0	1.88	10624
1928	64.0	1190	159	2510	76.0	4370	140	22.0	0	0	7.70	151.00	23639
1929	984	9940	2350	5940	2640	613	9.8	0	1230	76.0	8.30	77.0	23868
1930	52.0	4.70	-	-	-	-	-	-	-	-	-	-	-
MAX	1960	9940	2350	10100	4440	4370	518	794	1230	4730	137	151.00	23868
MIN	45.0	4.70	159	1730	76.0	0	0	0	0	0	7.70	5.40	10624
MFAN	621	2291	1425	5070	2015	1597	145	266	472	1090	56.2	30.82	18130
NO.	5	5	4	4	4	5	5	5	5	5	5	5	4
DISTR													
OF MEAN	3.4%	12.6%	7.9%	28.0%	11.1%	8.8%	.8%	1.5%	2.6%	6.0%	.3%	17.0%	100%

TRINITY RIVER BASIN

08049200 Lake Arlington at Arlington, Texas

LOCATION: Lat 32°43'04", Long 97°11'36", Tarrant County, in the pumphouse at the right end of Arlington Dam on Village Creek near the western boundary of Arlington, 1.5 mi (2.4 km) upstream from the Texas and Pacific Railway Co. bridge, and 7 mi (11 km) upstream from the West Fork Trinity River.

DRAINAGE AREA: 143 mi² (370 km²).

PERIOD OF RECORD: March 1957 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 9, 1957, nonrecording gage at same site and datum.

EXTREMES: Period of record (1957-75): Maximum contents, 56,820 ac-ft (69.8 hm³) May 1, 1966 (elevation, 554.65 ft or 169.057 m); minimum contents since the lake was first filled in April 1957, 18,110 ac-ft (22.3 hm³) Oct. 17, 1971 (elevation, 534.27 ft or 162.845 m).

REMARKS: The lake is formed by a rolled earthfill dam 6,482 ft (1,978 m) long, with a capacity of 45,710 ac-ft (56.4 hm³). The service spillway is a 10-foot diameter (3-m) uncontrolled circular drop inlet. The emergency spillway is an 882-foot wide (269-m) cut through natural ground near the right end of the dam. The dam was completed and storage began on Mar. 31, 1957. The dam was built by the City of Arlington to impound water for municipal and industrial uses.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1957	-	-	240	49080	49310	45800	43800	42300	43100	45560	46100	46000
1958	45780	45800	46100	53560	45600	44270	44360	42650	45910	45710	45490	45270
1959	45060	45270	45060	45710	45060	46380	44840	42690	41850	45080	45010	45910
1960	45710	45600	45510	45490	45060	43330	42540	40730	38800	37770	36770	37240
1961	40200	42520	45540	44900	44080	46690	44600	42560	41580	41080	40750	41100
1962	40670	40540	40440	40560	39890	41160	40300	40070	44580	43780	43330	43290
1963	43290	43260	42060	46020	45060	43260	41370	38940	38540	36710	35590	34780
1964	35190	34800	38380	40690	41510	39300	36040	34300	37220	35840	41410	41020
1965	45380	46200	45730	45510	46070	44660	43430	38940	38220	37180	36770	36150
1966	35500	37670	37200	52890	45470	45320	42990	42590	42630	44820	43600	42820
1967	42100	41100	40440	40320	39750	39100	37100	34280	34510	33870	32910	32650
1968	37450	38200	46110	45380	45670	44750	42690	40030	38180	36460	35520	34830
1969	34130	33950	35250	35400	45600	42760	38220	35630	34510	35060	34230	34680
1970	34320	40360	45980	47310	46840	43500	39260	35980	36540	35360	33760	32180
1971	30750	29720	27550	27160	25540	22310	20490	20290	18340	30380	29440	44920
1972	44840	43970	42060	42710	41720	38540	33930	29440	26720	27360	26770	25400
1973	26100	27750	28850	42480	41510	45490	46290	41580	40220	44860	44190	42760
1974	42900	42230	40810	38780	40160	38480	33020	33310	35210	40980	44640	43890
1975	45860	43480	44750	45190	47040	44120	43070	38900	34950	31430	29370	31580
MAX	45860	46200	46110	53560	49310	46690	46290	42690	45910	45710	46100	46000
MIN	26100	27750	240	27160	25540	22310	20490	20290	18340	27360	26770	25400
MEAN	39735	40134	38645	43639	43207	42064	39807	37643	37453	38384	38192	38762
NO.	18	18	19	19	19	19	19	19	19	19	19	19
DISTR												
OF MEAN	8.3%	8.4%	8.1%	9.1%	9.0%	8.8%	8.3%	7.9%	7.8%	8.0%	8.0%	8.1%

TRINITY RIVER BASIN

08049500 West Fork Trinity River at Grand Prairie, Texas

LOCATION: Lat 32°45'46", long 97°59'42", Dallas County, at the bridge on Belt Line Road, 1.3 mi (2.1 km) northeast of Grand Prairie, 3.7 mi (6.0 km) upstream from Bear Creek, and 6.5 mi (10.5 km) upstream from Mountain Creek.

DRAINAGE AREA: 3,065 mi² (7,938 km²).

PERIOD OF RECORD: April 1926 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 410.42 ft (125.096 m) above mean sea level, datum of 1929. Prior to Dec. 6, 1933, nonrecording gage at a bridge on the old channel 2,600 ft (782 m) southeast of the present site at datum 2.58 ft (0.780 m) higher. Dec. 6, 1933 to May 24, 1956, water-stage recorder at site 440 ft (134 m) downstream from site of nonrecording gage at datum 2.56 ft (0.780 m) higher than present datum. May 25, 1956 to Apr. 18, 1957, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum. Apr. 19 to Aug. 13, 1957, nonrecording gage on a bridge at the present site and datum.

AVERAGE DISCHARGE: 51 years, 394,454 ac-ft/yr (488.4 hm³/yr).

EXTREMES: Period of record (1925-75): Maximum discharge, 62,000 ft³/s (1,760 m³/s) May 17, 1949 (gage height, 28.00 ft or 8.534 m, site and datum then in use); minimum, 3.2 ft³/s (0.091 m³/s) June 6, 1925.

Maximum stage since at least 1900, 30.6 ft (9.33 m), former site and datum, in May 1908, from information by a local resident.

REMARKS: Records good. The flow is largely regulated by seven major reservoirs with a combined capacity of 748,200 ac-ft (923 hm³), of which 76,550 ac-ft (94.4 hm³) is for flood control. There are several diversions above Arlington for municipal and other uses. The river channel at the station was relocated in 1956.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1925	-	-	-	7060	100000	1010	1950	743	1230	10300	12000	1850	-
1926	19300	4510	34000	57300	32700	25900	22800	41700	49300	17400	1860	34800	341570
1927	18000	27100	68300	121000	15300	10900	10300	2380	5600	36200	1710	8980	325770
1928	4590	12000	5870	43700	28700	92800	47500	21000	2310	1930	11600	45600	317600
1929	25000	36700	28400	24600	113000	53100	2180	1090	2950	1290	2110	4190	294610
1930	1330	1490	2390	5430	186000	48800	1920	1650	964	95300	5960	58700	409934
1931	6580	36200	56800	41300	14600	9880	4390	3280	928	39300	17300	27500	258058
1932	218000	182000	45600	11400	57700	30500	105000	3280	73800	3300	2880	33800	767260
1933	53400	19100	101000	43400	70100	75000	14100	8670	36300	2190	5640	7560	436460
1934	8480	5180	16400	11600	9590	2870	4580	4250	2410	1800	2690	1760	71610
1935	7060	4600	4700	3760	161400	101400	53500	24860	9690	7680	2880	17000	398530
1936	17050	3430	2670	2530	53020	36330	6770	1560	41080	75240	39270	8890	287840
1937	9770	10090	28730	12000	2980	25980	2310	3820	7720	11290	8540	24760	147990
1938	67940	101100	68030	99730	19930	8850	10020	8480	4270	9590	5580	1880	405400
1939	14800	4350	9150	9310	12500	8110	1300	2300	1440	839	1120	1540	66759
1940	1360	1840	1380	9130	23240	61030	67160	10320	1190	1010	37930	133300	348890
1941	33420	121800	57480	75340	137000	417400	213700	55120	34700	100200	70960	34390	1351510
1942	49040	21270	24600	43100	364500	171000	70820	21430	55910	78270	57910	12850	1356700
1943	7430	5430	32190	53340	63380	54220	3390	3830	13140	4100	2600	4110	247160
1944	5440	33160	55490	22540	110300	21450	8200	8170	16050	11610	9630	15140	317180
1945	19370	147100	278000	223400	63670	23850	67160	22050	14530	60040	27240	21410	967820
1946	56080	70750	39560	25060	86920	57280	6940	29850	14290	6330	102600	87600	583460
1947	43010	21640	27660	44670	27920	36100	9340	18910	25250	18150	7080	30980	310710
1948	33940	72800	70790	11880	15990	15810	17280	8490	7150	4720	4400	4830	268080
1949	11470	44910	48180	21340	312100	94790	15260	7630	14010	42600	20480	10210	642980
1950	29230	93220	23660	62540	147600	35080	69580	90900	99880	40830	42380	14030	748930
1951	12850	10800	15190	7870	13970	57540	12670	6370	6230	5890	5740	163330	
1952	5960	8160	6750	17170	22330	6460	5250	4550	4560	4810	12180	8840	107020
1953	6250	4900	7420	16100	25960	3150	8510	4320	4340	9470	5240	4070	99730
1954	5020	3960	4100	4260	9210	3440	3100	3240	3050	4120	3770	3510	50780
1955	4130	5090	6630	4890	20010	11880	3750	3830	4200	3720	2750	3300	74180
1956	3790	5200	3590	4640	15870	6310	2840	2710	2840	4180	4250	4450	60670
1957	3360	5640	4410	116300	489600	420600	28350	10880	9600	12550	43660	19440	1184390
1958	17990	14460	58590	76100	275500	9280	5480	2500	17220	18790	6540	3660	506110
1959	4010	4040	7560	7340	5390	21910	9770	4330	5840	193100	12590	13460	289340
1960	93550	33760	16980	14530	13700	5670	7800	7030	5450	6790	4540	9730	219530
1961	20730	15880	21010	8340	7280	44670	11360	6060	9330	11780	8170	8920	173530
1962	5970	9380	7250	13960	6830	8460	25220	41440	184100	29250	11630	50310	393800
1963	7920	5710	6680	21400	35380	11420	7310	5760	6450	5090	5030	6510	124660
1964	9410	6950	17010	10660	13040	6040	6600	12130	57800	8620	49890	12860	211010
1965	28730	104100	24870	15700	137600	15390	7740	7100	14390	8910	9710	7450	381690
1966	7800	13030	10590	69850	268300	77420	11280	14320	12600	19140	6750	7770	518850
1967	7610	6700	8920	20070	15050	12000	9150	5740	13610	11390	7880	10400	128520
1968	22260	19910	156200	88090	103500	34080	14740	10140	9650	10400	13450	10500	492920
1969	10370	14000	53660	90700	241000	17740	9710	10560	21190	24210	11290	21850	526480
1970	39730	41230	167200	69130	103500	13700	9020	9870	32000	15610	7070	8690	516750
1971	8480	7900	10790	15130	11740	7800	14860	15450	8630	45840	13250	146000	305870
1972	35820	11090	10160	20080	14760	8890	7410	8230	10190	29460	15580	8200	179890
1973	20130	24910	31470	56260	53750	108900	42770	23740	16720	49910	16280	11870	456710
1974	14210	16100	10570	12070	25380	23750	12220	21770	27170	35110	229400	23850	451600

TRINITY RIVER BASIN

08049500 West Fork Trinity River at Grand Prairie, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	27970	134000	34900	99730	61230	132600	59490	26550	9660	7570	9450	11200	616350
MAX	218000	182000	278000	431100	489600	420600	213700	90900	184100	193100	229400	146000	1358700
MIN	1330	1490	1380	2530	2980	1010	1300	743	928	839	1120	1540	50780
MEAN	23703	32173	36675	46173	62745	50756	23017	13298	20256	24658	20015	20965	394454
NO. DISTR	50	50	50	51	51	51	51	51	51	51	51	51	50
OF MEAN	6.0%	8.2%	9.3%	11.7%	21.0%	12.9%	5.8%	3.4%	5.1%	6.3%	5.1%	5.3%	100%

TRINITY RIVER BASIN

08049550 Big Bear Creek near Grapevine, Texas

LOCATION: Lat 32°54'48", Long 97°07'44", Tarrant County, at the bridge on State Highway 121, 100 ft (30 m) downstream from the St. Louis-Southwestern Railway Co. bridge, 3.5 mi (5.6 km) southwest of Grapevine, and 7 mi (11 km) upstream from its confluence with Little Bear Creek.

DRAINAGE AREA: 29.6 mi² (76.7 km²).

PERIOD OF RECORD: December 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 554.00 ft (168.859 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 5,755 ac-ft/yr (7.1 hm³/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 2,600 ft³/s (73.6 m³/s) May 6, 1969 (gage height, 14.35 ft or 4.374 m); no flow at times each year.

Maximum stage since at least 1930, about 20 ft (6.1 m) on Sept. 21, 1964, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	-	-	-	7.80
1967	11.0	14.0	39.0	2170	1910	141	9.9	0	0	20.0	7.10	16.0	4338
1968	397	86.0	2530	1530	873	97.0	60.0	2.20	0	251	113	32.0	5971
1969	717	571	1460	996	3690	36.0	.70	0	0	197	4.60	353	8025
1970	30.0	1190	1310	2510	857	114	2.10	0	758	22.0	7.60	7.30	6808
1971	14.0	17.0	21.0	69.0	6.70	.06	0	4.20	15.0	1960	464	5020	7591
1972	78.0	88.0	48.0	72.0	232	39.0	0	0	0	344	52.0	2.30	955
1973	164	255	555	2060	812	1790	695	12.0	61.0	1070	231	116	7821
1974	60.0	126	118	316	436	253	0	7.00	423	1150	1230	471	4590
1975	230	2120	224	1360	1390	40.0	892	1.50	1.70	0	.10	19.0	6298
MAX	717	2120	2530	2510	3690	1790	892	12.0	758	1960	1230	5020	8025
MIN	11.0	14.0	21.0	69.0	6.70	.06	0	0	0	0	.10	2.30	955
MEAN	189	496	701	1234	1134	279	184	2.99	140	557	234	604	5755
NO. DISTR OF MEAN	9	9	9	9	9	9	9	9	9	9	9	10	9
	3.3%	8.6%	12.2%	21.4%	19.7%	4.8%	3.2%	-1%	2.4%	9.7%	4.1%	10.5%	100%

TRINITY RIVER BASIN

08049800 Mountain Creek near Cedar Hill, Texas

LOCATION: Lat 32°35'03", long 97°01'23", Dallas County, at a county road bridge, 3.5 mi (5.6 km) downstream from the Texas and New Orleans Railroad Co. bridge, 4.5 mi (7.2 km) southwest of Cedar Hill, and 12 mi (19 km) upstream from Mountain Creek Lake Dam.

DRAINAGE AREA: 119 mi² (308 km²).

PERIOD OF RECORD: October 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 478.31 ft (145.789 m) above mean sea level, datum of 1929. Prior to Nov. 25, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 37,712 ac-ft/yr (46.5 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 28,300 ft³/s (801 m³/s) May 7, 1969 (gage height, 25.10 ft or 7.660 m); no flow at times each year.

Maximum stage since at least 1910, 30 ft (9.1 m) May 25, 1922, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	-	40.0	0	40.0	-
1961	7690	5880	4400	392	280	7700	998	0	0	235	1120	1420	30115
1962	214	125	63.0	539	84.0	902	159	157	3320	24.0	97.0	17.0	5701
1963	8.70	0	0	3020	186	.20	0	0	0	0	0	0	3215
1964	1.80	6.00	1790	7790	4020	327	0	0	74.0	0	3140	32.0	17181
1965	1450	10980	563	1050	16520	54.0	0	0	167	4.60	13.0	8.70	30810
1966	6.10	1400	24.0	36110	12670	1410	0	97.0	1870	3380	42.0	42.0	57051
1967	19.0	9.5	21.0	499	933	248	1630	0	1420	9390	488	2500	17158
1968	11580	3780	16260	751	13640	3000	442	136	166	1200	1970	1880	54805
1969	104	1270	8510	1750	60650	2680	7.70	108	7.10	1100	47.0	2290	78524
1970	1420	10240	12160	17200	6330	4480	.04	0	3440	3580	159	81.0	59090
1971	75.0	168	67.0	5820	1360	78.0	4.90	120	19.0	13520	76.0	26340	47648
1972	4010	325	178	2220	2630	414	242	0	0	3560	1540	742	15361
1973	5960	5410	2090	24110	4250	14750	6650	1600	6110	20400	3620	807	95757
1974	9080	1390	367	158	2760	225	0	.20	327	3130	4410	661	22508
1975	1910	11020	2040	6740	6420	4910	727	23.0	126	0	0	0	33916
MAX	11580	11020	16260	36110	60650	14750	6650	1600	6110	20400	4410	26340	95757
MIN	1.80	0	0	158	84.0	.20	0	0	0	0	0	0	3215
MEAN	2902	3467	3236	7210	8849	2745	724	149	1136	3723	1045	2526	37712
NO.	15	15	15	15	15	15	15	15	15	16	16	16	15
DISTR OF MEAN	7.7%	9.2%	8.6%	19.1%	23.5%	7.3%	1.9%	.4%	3.0%	9.9%	2.8%	6.7%	100%

TRINITY RIVER BASIN

08049700 Walnut Creek near Mansfield, Texas

LOCATION: Lat 32°32'51", long 97°06'06". Tarrant County, at the bridge on a county road, 2.6 mi (4.2 km) north of Mansfield, 3.3 mi (5.3 km) downstream from the Texas and New Orleans Railroad Co. bridge, and 10.2 mi (16.4 km) upstream from the mouth.

DRAINAGE AREA: 62.8 mi² (162.7 km²).

PERIOD OF RECORD: October 1960 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 631.08 ft (161.873 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 16 years, 12,281 ac-ft/yr (15.1 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 7,420 ft³/s (210 m³/s) June 4, 1973 (gage height, 28.80 ft or 8.717 m); no flow at times in 1960-74.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN
1960	-	-	-	-	-	-	-	-	-	3.40	0	4.36	
1961	2020	1440	1210	162	64.0	4940	189	0	5.20	158	49.0	13.0	1:
1962	9.1	11.0	14.0	192	4.60	439	53.0	113	1250	35.0	41.0	33.0	
1963	9.3	6.00	8.10	2290	378	1.80	191	436	43.0	0	0	0	
1964	60.0	13.0	1200	1890	1620	19.0	0	0	33.0	0	989	11.0	
1965	263	5330	148	190	4960	73.0	4.0	0	42.0	1.60	37.0	16.0	1
1966	13.0	324	19.0	9880	4970	387	10.0	46.0	184	541	11.0	15.0	1
1967	13.0	12.0	10.0	396	1520	128	71.0	0	327	759	5.80	174	
1968	920	403	6100	322	7690	347	143	453	129	572	254	196	1
1969	227	569	2680	1520	13440	142	9.4	75.0	110	715	4.50	249	1
1970	96.0	2520	2550	5170	616	386	10.0	80	192	900	6.40	18.0	1
1971	12.0	25.0	13.0	1220	1060	9.3	0	9.2	0	2400	10.0	7260	1
1972	514	136	63.0	727	694	128	69.0	0	3.00	974	262	8.20	
1973	874	1240	591	8730	341	10670	2440	69.0	4010	7240	943	331	3
1974	1500	478	314	189	855	61.0	0.6	429	2000	3480	1450	469	1
1975	388	3820	771	4580	4610	1450	3510	25.0	103	1.20	1.30	26.0	1
MAX	2020	5330	6100	9880	13440	10670	3510	453	4010	7240	1450	7260	3
MIN	9.1	6.00	8.10	162	4.60	1.80	0	0	0	0	0	0	
MEAN	461	1088	1047	2497	2855	1279	446	110	555	1111	254	578	1
NO.	15	15	15	15	15	15	15	15	15	16	16	16	
DISTR													
OF MEAN	3.8%	8.9%	8.5%	20.3%	23.2%	10.4%	3.6%	.9%	4.5%	9.0%	2.1%	4.7%	

TRINITY RIVER BASIN

08050000 Mountain Creek near Grand Prairie, Texas

LOCATION: Lat 32°42', long 96°58', Dallas County, at the Grand Prairie-Duncanville Highway bridge, and 3.5 mi (5.6 km) southeast of Grand Prairie.

DRAINAGE AREA: 267 mi² (691.5 km²).

PERIOD OF RECORD: October 1924 to June 1933.

GAGE: Water-stage recorder. Datum of gage is 430.4 ft (131.2 m) above mean sea level.

AVERAGE DISCHARGE: 10 years, 53,174 ac-ft/yr (65.6 hm³/yr).

EXTREMES: Period of record (1924-33): Maximum discharge, 35,900 ft³/s (1,016.7 m³/s), of which 2,680 ft³/s (75.9 m³/s) was flowing through a break in the levee 0.6 mi (0.8 km) above gage, December 17, 1928 (gage height, 21.41 ft or 6.5 m); no flow during several periods.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	-	-	0	0	0	-
1925	0	48.0	0	491	15600	0	0	0	729	1130	4250	0	22248
1926	6310	84.3	520	11900	2930	3010	3500	16.5	480	0	0	13.9	28365
1927	0	21.0	7070	6980	7480	1160	11.9	32.7	167	10200	3.00	91.0	33217
1928	74.0	3840	1540	6190	26.0	19200	5780	7.40	0	0	2.40	32500	69160
1929	6010	4650	6520	17000	16900	1700	37.0	0	1170	1190	690	478	56345
1930	121	983	1550	3880	55700	1710	1.80	21.0	124	2340	40.0	48.50	71321
1931	411	5340	12200	2360	2180	1110	24.5	112	10.0	154	0	146	24268
1932	33600	24300	7560	6430	15600	887	3830	17.0	8270	6.80	8.30	91.60	109669
1933	12100	7390	13500	4310	22500	1140	-	-	-	-	-	-	-
MAX	33600	24300	13500	17000	55700	19200	5780	112	8270	10200	4250	32500	109669
MIN	0	21.0	0	491	26.0	0	0	0	0	0	0	0	22248
MEAN	6514	5184	5607	6616	15435	3324	1686	25.8	1309	1669	555	5249	53174
NO.	9	9	9	9	9	9	8	8	8	9	9	9	8
DISTR OF MEAN	12.3%	9.7%	10.5%	12.4%	29.0%	6.3%	3.2%	0%	2.5%	3.1%	1.0%	9.9%	100%

TRINITY RIVER BASIN

08050050 Mountain Creek Lake near Grand Prairie, Texas

LOCATION: Lat 32°43'55", long 96°56'35", Dallas County, at the right end of the spillway in Mountain Creek Dam on Mountain Creek, 2.5 mi (4.0 km) upstream from the Texas and Pacific Railway Co. bridge, and 3.7 mi (6.0 km) southeast of Grand Prairie.

DRAINAGE AREA: 295 mi² (764 km²).

PERIOD OF RECORD: October 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 21, 1960, nonrecording gage at the powerplant at the same datum.

EXTREMES: Period of record (1960-75): Maximum contents, 25,790 ac-ft (31.8 hm³) May 7, 1969 (elevation, 458.02 ft or 139.804 m); minimum contents, 14,120 ac ft (17.4 hm³) Oct. 18, 1972 (elevation, 453.25 ft or 138.151 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,800 ft (1,770 m) long, including a controlled spillway with six 34- by 27-foot (10- by 8-m) tainter gates. The capacity of the lake is 22,840 ac-ft (28.2 hm³). The dam was completed in December 1936 and deliberate impoundment began on Mar. 24, 1937. The lake was built and is operated by the Dallas Power and Light Co. to supply cooling water for their generating plant.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1960	-	-	-	-	-	-	-	-	-	18250	17650	21780
1961	21520	21780	21500	21650	21010	22560	21060	19410	18960	19240	20260	21400
1962	21830	21730	21610	21060	20490	21550	21450	19950	20360	19930	20830	21140
1963	21030	20750	20260	22270	22530	21600	20490	19050	18080	16850	16580	16650
1964	17270	17310	21550	21600	22870	21500	19550	18290	19080	18290	21270	21220
1965	21550	21630	21370	21320	21810	21110	19290	18170	19080	18720	19190	19550
1966	19600	20670	20700	19430	22630	22010	20650	20260	20420	19760	19430	19480
1967	19340	18880	18790	21500	21880	21340	20960	18910	20390	22320	21290	22480
1968	21500	20540	19950	19950	22070	22120	21220	20900	20520	19380	20620	21470
1969	21630	21420	21760	21580	21030	21880	19190	18080	17670	20650	20670	21940
1970	20980	20160	20670	19380	21730	20520	18770	17760	20240	20570	20420	20240
1971	19930	20140	19310	21190	21370	19790	19620	20340	19170	19430	19340	19520
1972	20240	20070	19380	22040	19450	18510	17160	15670	14920	21030	20390	20620
1973	20000	21400	20720	21190	21030	23300	23190	21960	21270	20520	20490	21500
1974	20750	20470	20880	20930	20020	21290	19190	19360	20240	20470	20650	20390
1975	20620	22200	21680	23040	23420	22580	23210	21420	20090	18910	18150	18390
MAX	21830	22200	21810	23040	23420	23300	23210	21960	21270	22320	21290	22480
MIN	17270	17310	18790	19380	19450	18510	17160	15670	14920	16850	16580	16650
MEAN	20519	20610	20689	21209	21556	21444	20333	19303	19366	19645	19827	20486
NO.	15	15	15	15	15	15	15	15	15	16	16	16
DISTR OF MEAN	8.4%	8.4%	8.4%	8.7%	8.8%	8.8%	8.3%	7.9%	7.9%	8.0%	8.1%	8.4%

TRINITY RIVER BASIN

08050100 Mountain Creek at Grand Prairie, Texas

LOCATION: Lat 32°44'52", long 96°55'33", Dallas County, at the bridge on Jefferson Street, 1,000 ft (305 m) upstream from the bridge on U.S. Highway 80, 1.2 mi (1.9 km) upstream from the Texas and Pacific Railroad Co. bridge, 1.5 mi (2.4 km) downstream from Mountain Creek Lake Dam, and 4.4 mi (7.1 km) east of Grand Prairie.

DRAINAGE AREA: 208 mi² (772 km²).

PERIOD OF RECORD: October 1960 to December 1975.

GAGE: Water-stage recorder, datum of gage is 407.31 ft (124.148 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 76,824 ac-ft/yr (94.7 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 35,000 ft³/s (991 m³/s) May 7, 1969 (gage height, 24.62 ft or 7.504 m); no flow in 1964 and 1972-74.

REMARKS: Records good. The flow is regulated by Mountain Creek Lake (station 08D50050).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	-	94.0	90.0	32.70	-
1961	15990	10220	8410	176	417	14360	1670	125	96.0	105	116	863	52548
1962	58.0	612	63.0	4230	110	71.0	87.0	5450	10300	155	128	115	21379
1963	65.0	22.0	24.0	14990	541	43.0	43.0	23.0	27.0	23.0	18.0	20.0	15839
1964	8.90	9.5	1730	12030	3300	70.0	30.0	61.0	109	61.0	3980	49.0	21438
1965	2560	34140	1200	674	40470	43.0	27.0	22.0	454	39.0	129	60.0	79818
1966	84.0	5190	1390	69650	34660	2850	17.0	323	1120	4920	33.0	54.0	120291
1967	13.0	22.0	23.0	1650	1780	929	678	30.0	31.0	7030	2190	2120	16496
1968	16290	6200	42110	1040	26610	2610	65.0	70.0	53.0	2260	1630	1030	99968
1969	1140	2500	13100	4020	119300	106	97.0	64.0	95.0	101	50.0	2520	143093
1970	2340	21320	21240	30300	3390	5880	27.0	15.0	3410	6090	50.0	42.0	94104
1971	52.0	69.0	38.0	9100	2860	30.0	88.0	221	34.0	25450	141	67760	100843
1972	3000	496	22.0	88.0	5140	40.0	13.0	10.0	21.0	72.0	4040	34.0	12976
1973	8100	6290	7160	46930	3220	60720	12800	829	11200	48290	4960	301	210800
1974	10970	1970	79.0	233	10620	185	34.0	61.0	2800	10570	22950	2490	62962
1975	2090	39650	3710	24070	26430	6920	7440	42.0	51.0	26.0	32.0	16.0	110477
MAX	16290	39650	42110	69650	119300	60720	12800	5450	11200	48290	22950	67760	210800
MIN	8.90	9.5	22.0	88.0	110	30.0	13.0	10.0	21.0	23.0	18.0	16.0	12976
MEAN	4184	8581	6687	14279	18590	6324	1541	490	1987	6580	2534	5047	76824
NO.	15	15	15	15	15	15	15	15	15	16	16	16	15
DISTR OF MEAN	5.4%	11.2%	8.7%	18.6%	24.2%	8.2%	2.0%	.6%	2.6%	8.6%	3.3%	6.6%	100%

TRINITY RIVER BASIN

08050200 Elm Fork Trinity River Subwatershed No. 6-0 near Muenster, Texas

LOCATION: Lat 33°37'13", long 97°24'15", Cooke County, near the center of the earthen dam on an unnamed tributary of the Elm Fork Trinity River, 1.0 mi (1.6 km) west of Farm Road 373, and 2.6 mi (4.2 km) southwest of Muenster.

DRAINAGE AREA: 0.77 mi² (1.99 km²).

PERIOD OF RECORD: October 1956 to September 1973.

GAGE: Water-stage recorder and flat-crested weir on the concrete drop inlet. Datum of gage is 941.75 ft (287.05 m) above mean sea level.

AVERAGE INFLOW: 18 years, 4,255 ac-ft/yr (6.2 hm³/yr).

EXTREMES: Period of record (1956-73): Maximum inflow, 842 ft³/s (23.8 m³/s), average for 15-minute interval, Oct. 3, 1969; no inflow at times.

REMARKS: Records good. The pool is formed by a rolled earthen dam 800 ft (244 m) long, with an emergency spillway located at the left end of the dam. The dam was completed in August 1956 and storage began in December 1956, although the first appreciable storage did not begin until Apr. 25, 1957. The outlet structure is a 2.5-foot (0.3-m) square concrete drop inlet connected to a 17-inch (432-millimeter) concrete pipe. The concrete pipe has a steel baffle plate with an 8-inch (203-millimeter) circular opening at the entrance. The crest of the drop inlet is at gage height 19.83 ft (6.04 m); the crest of the emergency spillway is at gage height 34.2 ft (10.4 m). There is also a valve-controlled 8-inch diameter (203-millimeter) water-supply outlet at the bottom of the drop-inlet structure at gage height 9.33 ft (2.84 m). The capacity of the pool at the crest of the emergency spillway is 279 ac-ft (0.344 hm³), at the crest of the drop inlet 75.1 ac-ft (0.092 hm³), and at the controlled outlet pipe 17.8 ac-ft (0.022 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	0	0	117	-
1957	0	0	0	8210	14200	6780	300	9.2	26.8	109	6902	670	37207
1958	2140	955	2400	1370	8550	186	232	10.4	3.00	79.9	13.1	16.0	15955
1959	49.2	36.6	45.5	42.8	16.0	19.0	4.30	0	1.80	6950	181	1220	8566
1960	4080	561	775	383	214	571	24.0	7.40	5.40	10.8	.80	7.90	6640
1961	22.7	31.0	54.3	9.2	4.90	1.70	1.30	1.20	1.50	26.0	3.30	8.60	166
1962	7.70	.70	1.50	110	6.60	66.0	4.00	2.30	148	11.9	52.7	48.6	480
1963	5.80	1.70	3.00	16.0	23.6	3.40	1.50	3.00	1.20	.20	.40	.30	60.1
1964	1.20	2.10	10.2	11.4	10.1	2.00	.50	.90	102	5.40	220	15.0	381
1965	36.0	33.1	5.90	5.40	47.3	30.8	1.50	1.90	57.8	24.4	4.50	2.60	251
1966	11.6	149	27.7	171	30.2	15.4	2.30	10.0	23.6	7.40	1.30	1.80	451
1967	.90	.60	2.30	9.8	78.8	13.8	5.60	6.50	2.40	1.50	1.50	2.10	126
1968	42.8	19.7	130	55.7	46.0	18.5	7.00	1.10	1.00	3.10	5.90	5.40	336
1969	26.3	38.9	133	29.1	178	4.50	.30	.20	.60	14.7	1.00	31.5	458
1970	12.8	42.9	42.8	80.7	14.4	4.60	1.30	.70	81.1	6.70	1.10	.70	290
1971	1.00	.90	1.20	2.60	2.50	2.20	.80	84.0	1.90	83.4	17.1	24.5	222
1972	11.4	3.80	1.90	5.70	20.6	2.00	1.60	.80	.40	4.80	14.9	2.30	70.2
1973	30.4	160	69.9	105	49.9	15.4	82.6	10.5	10.2	-	-	-	-
MAX	4080	955	2400	8210	14200	6780	300	84.0	148	6950	6902	1220	37207
MIN	0	0	0	2.60	2.50	1.70	.30	0	.40	0	0	.30	60.1
MEAN	381	120	238	625	1382	456	39.4	8.83	27.6	432	437	128	4255
NO.	17	17	17	17	17	17	17	17	17	17	17	17	16
DISTR. OF MEAN	9.0%	2.8%	5.1%	14.7%	32.5%	10.7%	.9%	.2%	.6%	10.1%	10.3%	3.0%	100%

TRINITY RIVER BASIN

08050300 Elm Fork Trinity River near Muenster, Texas

LOCATION: Lat 33°38'36", long 97°22'57", Cooke County, 40 ft (12 m) upstream from the bridge on Farm Road 373, 2.5 mi (4.0 km) south of Muenster, 2.5 mi (4.0 km) downstream from Long Branch, and 6.5 mi (10.5 km) upstream from Brushy Elm Creek.

DRAINAGE AREA: 46.0 mi² (119 km²).

PERIOD OF RECORD: October 1956 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 889.33 ft (271.07 m) above mean sea level.

AVERAGE DISCHARGE: 18 years, 13,955 ac-ft/yr (17.2 hm³/yr).

EXTREMES: Period of record (1956-73): Maximum discharge, 5,900 ft³/s (167 m³/s) May 1, 1968, gage height, 20.20 ft (6.16 m); no flow at times.

Maximum stage since at least 1900, about 23 ft (7 m) in May 1935, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	0	0	117	-
1957	0	0	0	8190	14210	6800	301	9.5	27.0	109	6870	671	37188
1958	2140	954	2400	1370	8580	186	232	11.0	3.20	8.10	13.0	16.0	15913
1959	49.0	37.0	46.0	43.0	16.0	19.0	4.40	0	1.80	6930	181	1230	8557
1960	4090	562	773	383	214	570	24.0	7.50	5.60	224	39.0	262	7154
1961	1270	833	3060	1110	367	57.0	47.0	128	25.0	329	669	691	8586
1962	303	177	260	2600	659	2920	252	63.0	4320	392	2280	2750	16776
1963	438	252	316	1260	1340	264	31.0	1.00	0	0	5.20	7.10	3914
1964	5.00	9.9	64.0	115	146	7.50	0	1.60	3240	726	10300	3000	17615
1965	1300	1770	619	411	3660	1080	170	161	1200	684	240	214	11509
1966	563	5390	1250	5100	5760	695	100	226	493	185	123	116	20001
1967	91.0	77.0	69.0	253	1110	734	20.0	4.40	9.2	2.70	28.0	98.0	2496
1968	2340	806	6720	2010	3770	946	497	33.0	10.0	43.0	118	174	17467
1969	391	1630	6310	1900	10330	696	26.0	2.30	30.0	200	91.0	755	22361
1970	691	1810	3280	4010	2190	749	74.0	0	999	165	125	105	14198
1971	125	126	108	92.0	17.0	1.00	0	2540	65.0	5900	710	7280	16964
1972	743	321	214	284	1190	11.0	1.00	0	1.00	51.0	66.0	31.0	2913
1973	748	1460	1310	4910	2220	764	1200	795	124	-	-	-	-
MAX	4090	5390	6720	8190	14210	6800	1200	2540	4120	6930	10300	7280	37188
MIN	0	0	0	43.0	16.0	1.00	0	0	0	0	0	7.10	2496
MEAN	899	954	1576	2002	3281	971	175	234	609	938	1286	1030	13955
NO.	17	17	17	17	17	17	17	17	17	17	17	17	16
DISTR OF MEAN	6.4%	6.8%	11.3%	14.3%	23.5%	7.0%	1.3%	1.7%	4.4%	6.7%	9.2%	7.4%	100%

TRINITY RIVER BASIN

08050500 Elm Fork Trinity River near Sanger, Texas

LOCATION: 1 at 33°23'11" N, long 97°05'05" W, Denton County, at the bridge on Farm Road 455, 4.1 mi (6.6 km) downstream from Spring Creek, 5.0 mi (8.0 km) upstream from Isle du Bois Creek, and 5.4 mi (8.7 km) northeast of Sanger.

DRAINAGE AREA: 381 mi² (987 km²).

PERIOD OF RECORD: May 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 553.72 ft (168.774 m) above mean sea level, datum of 1929. Prior to May 7, 1955, at site 500 ft (150 m) downstream at same datum.

AVERAGE DISCHARGE: 27 years, 109,912 ac-ft/yr (135.5 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 50,000 ft³/s (1,420 m³/s) Oct. 31, 1974 (gage height, 29.10 ft or 8.870 m); no flow at times.

Maximum stage since at least 1803, 30.7 ft (9.38 m) in May 1906, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	15330	11260	149	32.0	9190	30350	1300	970	-
1950	6890	23490	1910	2430	36490	15180	12810	56120	55900	2390	1230	1060	215920
1951	897	1660	1010	1110	1370	20000	4930	190	106	249	277	144	31943
1952	169	395	1780	9700	3210	180	4.20	0	0	0	171	68.0	15677
1953	106	90.0	683	5090	4440	7.50	1330	110	1030	5180	4340	923	23330
1954	3400	2150	4020	2760	9730	6060	3690	3720	3800	3640	279	527	43776
1955	176	260	427	1440	28910	10670	308	23.0	1430	26.0	13.0	340	44003
1956	2530	3210	3290	3250	3310	3100	3300	3700	3510	5090	3900	7040	45230
1957	4740	6460	7360	112900	120900	31320	2800	364	2090	1710	58470	8260	357374
1958	18000	5380	19180	15460	82260	3030	10940	673	723	319	315	313	156593
1959	338	278	589	237	992	22650	3210	282	555	25900	801	13090	68922
1960	30970	4000	5740	2270	1920	1150	5390	273	328	897	267	1390	54595
1961	6300	5910	16120	3860	1180	496	162	72.0	277	1640	1540	2720	40277
1962	858	479	837	14950	2050	15120	1150	243	67730	3220	20120	8480	135237
1963	2590	1630	1340	9520	8820	863	267	95.0	129	51.0	182	264	25751
1964	224	234	4500	4110	2390	461	15.0	226	32200	720	71170	10020	126270
1965	9800	15440	4030	2020	16380	8980	799	603	17230	3220	1670	1090	81262
1966	2350	41130	7540	70350	32850	2980	1050	5970	6290	1180	769	938	173397
1967	738	666	616	2040	36420	8010	720	205	286	95.0	155	315	50266
1968	6120	3660	49820	26160	52060	10920	4330	516	602	3700	1610	906	160404
1969	7660	20900	41520	14560	72490	5550	1240	674	836	13550	928	17410	197318
1970	4380	25520	29310	34530	12840	3970	600	277	34490	2410	883	813	150523
1971	831	1060	574	477	724	457	413	8590	2220	26250	3240	75690	120526
1972	3590	1840	1140	2730	6670	425	170	128	392	11570	10300	982	39937
1973	9020	15050	17360	36800	14980	14900	25150	3940	3510	18830	13840	6460	181840
1974	1930	3910	2020	10670	5880	2820	175	2620	21180	78860	50120	4040	184225
1975	9810	33200	31200	18800	15880	19260	1570	3040	857	533	540	680	135370
MAX	30970	41130	49820	112900	120900	31320	25150	56120	67730	78860	71170	75690	357374
MIN	106	90.0	427	237	724	7.50	4.20	0	0	0	13.0	68.0	15677
MEAN	5170	8385	9766	15778	21869	8141	3210	3433	9903	8947	9201	6109	109912
NO.	26	26	26	26	27	27	27	27	27	27	27	27	26
DISTR													
OF MEAN	4.7%	7.6%	8.9%	14.4%	19.9%	7.4%	2.9%	3.1%	9.0%	8.1%	8.4%	5.6%	100%

TRINITY RIVER BASIN

08051000 Isle du Bois Creek near Pilot Point, Texas

LOCATION: Lat 33°24'23", long 97°00'45", Denton County, at the bridge on Farm Road 372, 2.4 mi (3.9 km) downstream from Wolf Creek, 3.0 mi (4.8 km) west of Pilot Point, and 6.3 mi (10.1 km) upstream from the mouth.

DRAINAGE AREA: 266 mi² (688 km²).

PERIOD OF RECORD: May 1948 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 555.48 ft (169.310 m) above mean sea level. Prior to Feb. 8, 1958, water-stage recorder at site 1.0 mi (1.6 km) upstream at datum 4.22 ft (1.286 m) higher.

AVERAGE DISCHARGE: 27 years, 86,342 ac-ft/yr (106.4 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 40,000 ft³/s (1,130 m³/s) Oct. 31, 1974 (gage height, 29.43 ft or 8.970 m, present site and datum); no flow at times most years.

Maximum stage since at least 1900, 30.4 ft (9.27 m) in May 1908, present site and datum, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	14990	4900	53.0	27.0	742	7310	47.0	104	-
1950	12210	24720	555	1430	36180	7430	13620	23280	37480	461	152	191	157709
1951	207	3660	626	1030	2330	25290	5270	17.0	100	157	115	12.0	38894
1952	25.0	407	1540	14620	5300	342	7.50	0	0	0	1200	1910	25352
1953	450	363	2270	23120	16130	49.0	415	46.0	72.0	902	3630	2040	49487
1954	2820	28.0	6.70	127	13620	7290	0	0	0	3710	149	1360	29113
1955	986	3140	2520	3530	18110	5320	4.80	0	148	60.0	0	0	33819
1956	0	986	4.60	145	1870	50.0	0	0	0	0	0	1130	4186
1957	28.0	2840	6080	103900	104500	11170	30.0	0	3730	687	41500	2540	277005
1958	8880	1140	11420	13280	60540	14870	7510	93.0	20.0	64.0	9.3	24.0	117850
1959	48.0	63.0	170	165	1930	9690	5060	35.0	116	16440	1350	12530	47597
1960	13750	6170	3400	606	1030	660	5690	281	600	24.0	4.40	3370	35585
1961	7390	7090	8260	1440	744	3470	531	87.0	1850	1850	2000	4360	39072
1962	159	115	1030	14060	371	14410	96.0	41.0	70820	559	14840	2300	118801
1963	437	293	395	6290	6490	661	103	0	0	0	0	0	14669
1964	.20	3.20	5740	9420	4190	3640	1.40	108	30550	185	39330	2530	95698
1965	6710	14380	1400	503	11010	6370	46.0	.60	14580	66.0	4030	162	59258
1966	184	13230	3620	105600	17060	190	275	4260	3450	42.0	93.0	22.0	148026
1967	26.0	34.0	167	16780	27950	13150	492	.60	360	33.0	231	821	60045
1968	11650	1430	36960	16370	36780	15360	1640	51.0	1100	476	5390	381	127588
1969	6070	19550	23250	6120	65300	9160	49.0	14.0	.90	1920	4.60	6750	138188
1970	586	13720	14640	42710	10090	5860	6.20	7.00	28430	682	127	126	116984
1971	308	502	153	106	3540	232	1130	4210	3840	25180	2630	59310	101141
1972	785	395	229	285	2560	6.00	0	194	173	14080	8780	187	27674
1973	8510	8230	23040	38020	9290	22010	13330	984	26980	23000	9010	2880	185284
1974	867	2320	787	3810	10780	12400	11.0	2070	10830	43940	32460	1510	121785
1975	4230	27000	21240	13520	21740	11310	352	58.0	105	22.0	59.0	115	99751
MAX	13750	27000	36960	105600	104500	25290	13620	23280	70820	43940	41500	59310	277005
MIN	0	3.20	4.60	106	371	6.00	0	0	0	0	0	0	4186
MEAN	3361	5839	6519	16807	18682	7603	2064	1328	8744	5254	6190	3951	86342
NO.	26	26	26	26	27	27	27	27	27	27	27	27	26
DISTR OF MEAN	3.9%	6.8%	7.6%	19.5%	21.6%	8.8%	2.4%	1.5%	10.1%	6.1%	7.2%	4.6%	100%

TRINITY RIVER BASIN

08051500 Clear Creek near Sanger, Texas

LOCATION: Lat 33°20'21", Long 97°10'51", Denton County, at the bridge on Interstate Highway 35, 600 ft (180 m) downstream from Duck Creek, 1.3 mi (2.1 km) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 1.7 mi (2.7 km) south of Sanger.

DRAINAGE AREA: 295 mi² (764 km²).

PERIOD OF RECORD: March 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 582.23 ft (177.464 m) above mean sea level. Prior to Apr. 18, 1975, water-stage recorder at site 950 ft (290 m) downstream at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE: 27 years, 58,591 ac-ft/yr (72.2 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 18,200 ft³/s (515 m³/s) Sept. 13, 1960 (gage height, 24.80 ft or 7.553 m); no flow at times most years.

Maximum stage since at least 1880, 31.5 ft (9.60 m) in May 1908, from information by the Gulf, Colorado, and Santa Fe Railway Co.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	2310	499	9830	10720	84.0	0	1320	9680	330	482	-
1950	2360	12740	1470	2760	21140	7010	4560	3940	39980	1990	1190	1110	100250
1951	1030	1400	1490	975	1790	5570	1580	.20	1.80	152	88.0	5.80	14083
1952	0	112	376	1630	1950	1120	0	0	0	0	47.0	20.0	5255
1953	0	0	601	2280	3220	4.40	258	0	54.0	3930	777	519	11643
1954	1070	262	52.0	84.0	1790	2390	0	0	0	0	0	0	5648
1955	0	0	0	175	14390	11390	17.0	0	670	0	0	0	26642
1956	0	0	0	0	94.0	0	0	0	0	0	0	185	279
1957	0	351	364	70650	77490	26470	329	36.0	1650	1190	26060	3770	208360
1958	8310	3030	11150	8180	37150	2320	3430	347	71.0	39.0	305	334	74666
1959	394	293	451	345	549	14670	1510	14.0	70.0	15290	637	5730	39953
1960	16710	2930	3470	1730	1340	1220	150	0	225	1270	41.0	525	29631
1961	3720	2600	8230	2560	2150	326	5.40	0	707	2620	808	1130	24856
1962	504	309	479	8060	988	8890	1270	162	44190	1440	11180	5220	82692
1963	1950	1260	1020	7890	10260	625	59.0	0	0	0	154	62.0	23280
1964	147	154	1030	5480	3970	485	0	1040	18200	1350	58190	4410	94456
1965	8580	10310	4410	2350	12130	7470	568	1310	12810	3190	801	1080	65009
1966	1390	24540	5740	27170	20970	4900	789	2910	3910	804	637	974	94734
1967	757	731	667	981	11590	10700	56.0	.06	14.0	30.0	143	273	25942
1968	1460	965	24910	21350	19800	4490	1970	151	46.0	1610	800	849	78401
1969	2210	8330	24410	6370	36620	4070	650	184	645	2830	552	6200	93071
1970	2870	9800	14550	20670	8480	2550	297	20.0	14480	1470	662	712	76561
1971	740	873	630	504	618	89.0	0	1220	361	11760	2040	37910	56745
1972	2840	1480	1020	2030	4960	232	22.0	0	0	1490	2420	492	16986
1973	3620	4810	5530	31620	5390	10120	11580	4350	1030	9750	6350	3390	97540
1974	1770	1910	1690	5150	4360	944	23.0	1860	7310	28480	46560	3650	103707
1975	4970	21810	17920	12440	11550	15990	1770	781	478	453	492	771	89425
MAX	16710	24540	24910	70650	77490	26470	11580	4350	44190	28480	58190	37910	208360
MIN	0	0	0	0	94.0	0	0	0	0	0	0	0	279
MEAN	2592	4269	4962	9035	12022	5732	1147	679	5490	3734	5973	2956	58591
NO.	26	26	27	27	27	27	27	27	27	27	27	27	26
DISTR													
OF MEAN	4.4%	7.3%	8.5%	15.4%	20.5%	9.8%	2.0%	1.2%	9.4%	6.4%	10.2%	5.0%	100%

TRINITY RIVER BASIN

08052000 Elm Fork Trinity River near Denton, Texas

LOCATION: Lat 33°15', long 97°03', Denton County, at the Texas and Pacific Railway bridge, 1.0 mi (1.6 km) downstream from the mouth of Clear Creek, and 6 mi (9.6 km) northeast of Denton.

DRAINAGE AREA: 1,076 mi² (2,786.8 km²).

PERIOD OF RECORD: December 1923 to November 1926.

GAGE: Chain gage. Datum of gage is 500.82 ft (152.6 m) above mean sea level.

EXTREMES: Period of record (1923-26): Maximum discharge, 8,330 ft³/s (236.9 m³/s) March 20, 1924 (gage height, 29.05 ft or 8.8 m); no flow at times.

The flood during 1908 reached a stage of 31.63 ft (9.6 m).

REMARKS: Records poor.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	44000	-
1924	7770	5400	91200	39100	17700	2120	1090	428	174	155	49.0	1130	166316
1925	353	319	217	22500	20700	242	47.0	1250	6940	8820	1470	81.9	62940
1926	13500	637	6220	32700	54000	29600	82400	25100	2670	9660	1780	-	-
MAX	13500	5400	91200	39100	54000	29600	82400	25100	6940	9660	1780	44000	166316
MIN	353	319	217	22500	17700	242	47.0	428	174	155	49.0	81.9	62940
MEAN	7208	2119	32546	31433	30800	10654	27846	8926	3261	6212	1100	15071	177176
NO.	3	3	3	3	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	4.1%	1.2%	18.4%	17.7%	17.4%	6.0%	15.7%	5.0%	1.8%	3.5%	.6%	8.5%	100%

TRINITY RIVER BASIN

08052500 Lake Dallas near Lake Dallas, Texas

LOCATION: Lat 33°07', long 96°59', Denton County, at Garza Dam on the Elm Fork Trinity River, 1.6 mi (2.6 km) upstream from Little Elm Creek, and 2.0 mi (3.2 km) southeast of Lake Dallas.

DRAINAGE AREA: 1,165 mi² (3,017.4 km²).

PERIOD OF RECORD: December 1928 to September 1957.

GAGE: Water-stage recorder. Datum of gage is 0.08 ft (0.02 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1928-57): Maximum contents occurred during the period of backwater from Garza-Little Elm Reservoir (station 08052800); minimum contents, 19,220 ac-ft (23.7 hm³) November 28, 1952 (gage height, 503.2 ft or 153.4 m).

REMARKS: The lake is formed by an earthen hydraulic-fill dam, consisting of 567 ft (172.8 m) of concrete service spillway and two dikes. The capacity of the lake is 156,000 ac-ft (193.1 hm³). There are two emergency earthen spillways beyond the right end of the dam. The dam was completed in November 1927 and storage began on February 16, 1928. Dead storage is negligible. The dam is operated by the City of Dallas for municipal water supply. Since February 1, 1954, the City of Dallas has at times operated 6 pumps (total capacity about 120 ft³/s or 3.4 m³/s) to divert water from the Red River into Lake Dallas.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1928	-	-	-	-	-	-	-	-	-	-	-	141200
1929	150200	151200	153200	143200	196200	173200	169200	158200	163200	133600	131800	107600
1930	95800	96600	101600	102400	146200	147200	136500	128200	122800	149200	144200	137400
1931	124600	147200	118600	116000	119400	114400	108400	102400	90500	104200	99900	112600
1932	183000	185200	128200	112600	114400	129100	128200	116000	105000	92000	76500	90500
1933	117800	110100	113500	128200	172200	131800	115200	104200	82800	63300	51300	46700
1934	47700	55000	100800	121200	132700	118600	105800	94200	87700	79300	82800	76500
1935	82100	80000	103300	107600	192900	166200	156200	124600	118600	119400	122000	131800
1936	113500	104200	101600	96600	135600	124600	113500	100800	212700	197300	140300	153200
1937	153200	145200	155200	156200	145200	155200	152200	130900	93500	87700	82800	103300
1938	153200	181900	238500	132700	128200	126400	115200	82100	67200	60200	56000	52400
1939	51300	53400	90500	130000	126400	129100	113500	99000	85600	75100	62200	57000
1940	51800	48200	42500	75800	126400	183000	183000	173200	157200	146200	181900	155200
1941	126400	183000	148200	188500	162200	194000	175400	172200	157200	192900	173200	174300
1942	166200	160200	158200	202800	173200	172200	152200	130900	115200	113500	115200	116000
1943	102400	86300	135600	130900	171200	144200	128200	107600	95000	90500	82800	86300
1944	90500	189600	171200	175400	191800	160200	140300	124600	106700	97400	105800	132700
1945	143200	178600	210500	178600	167200	177500	169200	151200	170200	158200	148200	134600
1946	154200	169200	157200	148200	253600	166200	148200	129100	112600	92900	139400	151200
1947	131800	116900	112600	132700	188500	191800	162200	133600	107600	89100	77900	146200
1948	171200	211600	154200	147200	187400	172200	164200	129100	93500	73000	61200	52360
1949	55480	81400	99050	95800	162200	186300	169200	155200	156200	192900	166200	161200
1950	175400	177500	160200	166200	164100	181900	198400	211600	177500	156200	142200	134600
1951	132700	138400	135600	130900	130000	185200	166200	138400	116900	73350	66270	58950
1952	53440	49800	47270	80050	87750	76600	60150	42000	28240	20730	21770	22040
1953	21770	20220	22850	68190	101800	88500	78650	66910	57180	58950	67550	68190
1954	74650	72700	69470	69470	93000	97700	83550	69470	60150	61950	58350	57750
1955	57750	61950	63150	64350	106000	123200	101800	81450	71400	59550	49280	43910
1956	42000	44870	45830	47760	55020	50840	40120	29600	21510	20730	22310	28920
1957	34320	42470	57180	198700	-	-	142000	84950	71400	-	-	-
MAX	183000	211600	238500	202800	253600	194000	198400	211600	212700	197300	181900	174300
MIN	21770	20220	22850	47760	55020	50840	40120	29600	21510	20730	21770	22040
MEAN	105435	115273	117097	125801	148242	145262	133685	116265	107079	102088	97476	101194
NO.	29	29	29	29	28	28	29	29	29	28	28	29
DISTR												
OF MEAN	7.5%	8.1%	8.3%	8.9%	10.5%	10.3%	9.4%	8.2%	7.6%	7.2%	6.9%	7.2%

TRINITY RIVER BASIN

08052630 Little Elm Creek Subwatershed No. 10 near Gunter, Texas

LOCATION: Lat 33°24'33", long 96°48'41", Grayson County, near the center of the dam on Walnut Fork, a tributary to Little Elm Creek, 1.6 mi (2.6 km) upstream from the mouth, and 4.7 mi (7.6 km) southwest of Gunter.

DRAINAGE AREA: 2.10 mi² (5.44 km²).

PERIOD OF RECORD: April 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 615.51 ft (187.607 m) above mean sea level.

AVERAGE INFLOW: 10 years, 1,161 ac-ft/yr (1.4 hm³/yr).

EXTREMES: Period of record (1966-75): Maximum inflow, 3,240 ft³/s (91.8 m³/s), average for 5 minute interval, May 30, 1967, computed from the outflow and change in the pool contents and adjusted for rainfall on the pool surface during times of peak inflow; no inflow at times each year.

REMARKS: Records good. The dam was completed on Mar. 16, 1966 and storage began in April 1966. The pool is formed by a rolled earthfill dam 1,588 ft (484 m) long, with a 130-foot wide (40-m) spillway at the left end of the dam with the crest at gage height 29.2 ft (8.90 m). The outlet structure is a 2.0- by 4.0-foot (0.6- by 1.2-m) uncontrolled concrete drop-inlet structure with the crest at gage height 20.00 ft (6.096 m) and connected to a 24-inch (610-millimeter) concrete pipe with the invert at gage height 13.0 ft (3.96 m). There is also a 12-inch (305-millimeter) controlled slide gate used as a water-supply outlet that is connected to the drop inlet at gage height 13.5 ft (4.11 m). The pool capacity is 868 ac-ft (1.07 hm³) at the spillway crest, 159 ac-ft (0.196 hm³) at the crest of the drop inlet, and 40 ac-ft (0.049 hm³) at the controlled slide gate.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	742	74.7	4.20	4.40	45.9	150	6.20	.60	4.80	-
1967	2.20	2.40	10.1	136	382	50.9	6.80	2.90	6.80	5.00	2.80	8.10	616
1968	45.0	8.60	420	148	246	14.6	4.00	3.60	19.0	4.80	119	19.3	1052
1969	49.5	197	104	32.5	573	24.7	.70	1.20	4.90	12.8	1.90	1.29	1131
1970	1.40	262	230	571	105	14.9	0	0	128	7.90	4.60	2.10	1327
1971	3.80	2.50	4.30	1.60	39.8	3.40	8.80	42.2	37.3	210	214	372	940
1972	0	2.80	2.60	9.1	3.40	0	.10	1.70	33.4	202	92.3	4.20	352
1973	112	83.0	306	139	122	261	91.6	17.4	340	525	161	3.60	2162
1974	6.80	14.0	2.20	50.3	101	515	4.70	30.3	121	637	215	61.0	1758
1975	40.0	183	70.5	164	149	268	5.20	2.20	4.00	0	2.60	1.60	890
MAX	112	262	420	742	573	515	91.6	45.9	340	637	215	372	2162
MIN	0	2.40	2.20	1.60	3.40	0	0	0	4.00	0	.60	1.60	352
MEAN	29.0	83.9	128	199	180	116	12.6	14.7	84.4	161	81.4	60.6	1151
NO.	9	9	9	10	10	10	10	10	10	10	10	10	9
DISTR OF MEAN	2.5%	7.3%	11.1%	17.3%	15.6%	10.1%	1.1%	1.3%	7.3%	14.0%	7.1%	5.3%	100%

TRINITY RIVER BASIN
08052650 Little Elm Creek near Celina, Texas

LOCATION: Lat 33°21'55", long 96°49'25", Collin County, at the bridge on Farm Road 455, 3.6 mi (5.8 km) northwest of Celina, and 10 mi (16 km) upstream from Mustang Creek.

DRAINAGE AREA: 46.7 mi² (121.0 km²).

PERIOD OF RECORD: March 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 582.4 ft (177.5 m) above mean sea level.

AVERAGE DISCHARGE: 10 years, 28,028 ac-ft/yr (34.6 hm³/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 5,340 ft³/yr (151 m³/s) May 31, 1967 (gage height, 13.32 ft or 4.060 m); no flow for many days each year.

REMARKS: Records fair. There are several small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	156	14880	4420	30.0	18.0	1730	1300	135	0	0	-
1967	0	0	156	2560	6000	5310	0	0	0	0	0	92.0	14118
1968	1120	446	8620	4460	8730	175	132	0	458	134	1900	849	27024
1969	893	4560	3320	2030	14020	1170	3.40	0	0	909	2.40	3240	30148
1970	854	5740	5510	9560	3200	217	0	1.20	2390	54.0	1.50	0	27528
1971	0	4.00	.70	0	738	83.0	103	956	319	5550	4020	15560	27334
1972	66.0	3.00	4.00	46.0	248	0	0	0	249	4270	2980	74.0	7940
1973	2310	2000	7870	4000	3030	7590	443	186	6600	11470	5080	290	50869
1974	155	652	70.0	2640	2580	10460	0	317	4260	6820	14550	16.0	44114
1975	1140	5430	1700	3960	3250	10150	4.10	0	72.0	0	0	0	25706
MAX	2310	5740	8620	14880	14020	10460	443	1730	6600	11470	14550	15560	50869
MIN	0	0	.70	0	248	0	0	0	0	0	0	0	7940
MEAN	726	2093	2741	4414	4622	3519	70.3	319	1565	2934	2853	2172	28028
NO. OF MEAN	9	9	10	10	10	10	10	10	10	10	10	10	9
DISTR OF MEAN	2.6%	7.5%	9.8%	15.7%	16.5%	12.6%	.3%	1.1%	5.6%	10.5%	10.2%	7.7%	100%

TRINITY RIVER BASIN
08052700 Little Elm Creek near Aubrey, Texas

LOCATION: Lat 33°17'00", long 96°53'33", Denton County, at the bridge on Farm Road 1385, 1.5 mi (2.4 km) upstream from Mustang Creek, 5.5 mi (8.8 km) east of Aubrey, and 18 mi (29 km) upstream from Lewisville Dam.

DRAINAGE AREA: 75.5 mi² (195.5 km²).

PERIOD OF RECORD: June 1956 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 534.76 ft (162.995 m) above mean sea level.

AVERAGE DISCHARGE: 20 years, 33,281 ac-ft/yr (41.0 hm³/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 7,320 ft³/s (224 m³/s) Oct. 31, 1974 (gage height, 17.04 ft or 5.194 m); maximum gage height, 17.34 ft (5.286 m) Apr. 26, 1957; no flow at times each year.

Maximum stage since about 1900, 18.2 ft (5.55 m) in May 1941, from information by local residents.

REMARKS: Records good. There are several small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	0	0	0	0	0	9.5	485	-
1957	31.0	111.0	286.0	4026.0	4308.0	657	63.0	0	531	188	1148.0	491	100751
1958	132.0	78.0	255.0	673.0	1707.0	1500	57.0	0	0	0	0	0	29305
1959	0	0	32.0	6.00	0	729	855	.60	0	321.0	278.0	256.0	10173
1960	333.0	140.0	132	22.0	54.0	2.60	177.0	39.0	0	0	0	196.0	9196
1961	370.0	303.0	116.0	92.0	57.0	262	241	0	384	72.0	564	9.00	11623
1962	49.0	6.90	591	556.0	54.0	469.0	95.0	31.0	1359.0	265	301.0	336	29133
1963	52.0	3.80	1.60	389.0	562.0	177	4.60	0	0	0	0	0	9749
1964	0	0	133.0	509.0	189.0	44.0	0	39.0	1535.0	185	1731.0	44.0	41678
1965	190.0	543.0	222	26.0	575.0	464.0	15.0	0	467.0	15.0	441	4.00	23113
1966	21.0	246.0	134	1675.0	579.0	62.0	0	176.0	131.0	133	.08	3.10	28423
1967	1.70	7.20	225	309.0	949.0	586.0	0	0	34.0	36.0	11.0	347	19102
1968	188.0	625	1122.0	655.0	978.0	342	231	0	893	317	287.0	117.0	35878
1969	109.0	592.0	464.0	294.0	1805.0	148.0	4.70	0	0	127.0	17.0	603.0	41442
1970	103.0	910.0	772.0	1208.0	455.0	373	0	0	446.0	134	6.00	5.80	39459
1971	13.0	17.0	12.0	7.10	848	156	108	116.0	352	724.0	535.0	2137.0	36633
1972	122	13.0	58.0	96.0	32.0	0	0	0	821	784.0	491.0	122	14302
1973	339.0	284.0	982.0	566.0	436.0	996.0	834	384	861.0	166.00	717.0	478	70306
1974	291	907	154	446.0	377.0	1412.0	0	249	577.0	1058.0	1976.0	226.0	62321
1975	167.0	793.0	226.0	485.0	475.0	1208.0	6.40	0	15.0	0	0	0	33561
MAX	370.0	910.0	1122.0	4026.0	4308.0	1412.0	177.0	176.0	1535.0	1660.0	1976.0	2137.0	100751
MIN	0	0	1.60	6.00	0	0	0	0	0	0	0	0	9196
MEAN	104.7	215.1	237.5	621.9	717.3	285.7	25.7	18.3	285.0	243.7	378.4	194.8	33281
NO.	19	19	19	19	19	20	20	20	20	20	20	20	19
DISTR OF MEAN	3.1%	6.5%	7.1%	18.7%	21.6%	8.6%	.8%	.6%	8.6%	7.3%	11.4%	5.9%	100%

TRINITY RIVER BASIN

08052800 Lewisville Lake near Lewisville, Texas

LOCATION: Lat 33°04'09", long 96°57'51", Denton County, in the intake structure of Lewisville Dam on Elm Fork Trinity River, 2 mi (3 km) upstream from the bridge on State Highway 121, 2.4 mi (3.9 km) northeast of Lewisville, and 12 mi (19 km) upstream from Denton Creek.

DRAINAGE AREA: 1,680 mi² (4,299 km²).

PERIOD OF RECORD: November 1954 to December 1975. Prior to October 1970, published as "Garza-Little Elm Reservoir near Lewisville".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 17, 1955, nonrecording gage at site 4,000 ft (1,220 m) upstream at same datum.

EXTREMES: Period of record (1954-75): Maximum contents, 1,146,000 ac-ft (1,413.0 hm³) June 3, 1957 (elevation, 635.57 ft or 163.242 m); minimum contents since the initial filling in 1957, 307,200 ac-ft (378.8 hm³) Feb. 29, 1964 (elevation, 507.00 ft or 154.534 m).

REMARKS: The lake is formed by a rolled earthfill dam 32,888 ft (10,024 m) long, including a 560-foot (171-m) uncontrolled off-channel concrete-gravity spillway with an ogee weir section. The capacity of the lake is 464,500 ac-ft (572.7 hm³). Deliberate impoundment began on Nov. 1, 1954 and the dam was completed in August 1955. The controlled low-flow outlet works consist of a 16-foot diameter (5-m) conduit that is controlled by three 6.5 by 13 foot (2.0 by 4 m) broome type gates and two 60 inch (1,524-millimeter) steel pipes with service valves. The lake was built for flood control and water conservation. The City of Dallas derives most of its water for municipal use from this lake. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1954	-	-	-	-	-	-	-	-	-	-	770	1090
1955	1240	16140	12020	13000	23050	31290	30830	32200	32610	32200	32320	31460
1956	31370	35150	28160	20610	20480	8010	2170	1960	1860	2700	4630	6430
1957	1520	9516	16760	465500	1112000	907500	507300	414700	413400	478400	483000	482200
1958	482400	473000	483300	578600	691500	509800	464200	437800	430400	421800	415000	406500
1959	400300	395800	387300	378400	373400	425400	436300	411500	394100	479700	477000	482800
1960	484100	479700	480800	478400	470700	455500	473000	468500	445900	432700	418900	428300
1961	467300	484700	491400	471200	459000	457500	442200	414200	398600	396600	395800	403900
1962	396400	390600	387900	459000	439500	490100	485400	466200	617800	487300	529200	482000
1963	470900	464000	456200	494800	487900	459000	430200	412400	393500	347600	332000	320300
1964	313500	307200	324500	389800	424700	404500	367500	346400	531000	454000	651100	468600
1965	465700	475200	462000	458400	482000	467600	431600	410200	454700	440100	433600	419700
1966	417100	466000	464100	889600	791600	592600	462300	467900	463600	445300	431800	421700
1967	416000	411300	405600	433600	498700	455100	429100	394900	388200	377500	368700	366000
1968	404100	407800	543800	498500	548900	467400	451000	424200	434000	433400	448500	445700
1969	470700	529300	516900	476100	662800	484200	415200	382000	364900	375000	359500	407400
1970	412600	519700	501600	640400	504600	454000	414500	381800	479200	458400	445100	436300
1971	428900	421500	405200	393500	384900	361300	347300	353100	349400	472100	467400	468300
1972	466000	460200	450300	436300	439480	415600	383600	356600	343600	382200	420400	412300
1973	445100	465700	467400	584400	482700	503100	529000	458400	506000	502900	485800	473500
1974	466700	468600	459500	487700	464100	472800	439800	436900	484400	687100	709900	472300
1975	476100	480800	487500	485800	546500	470400	457800	437100	415100	394600	379100	367800
MAX	484100	529300	543800	889600	1112000	907500	529000	468500	617800	687100	709900	648300
MIN	1240	9510	12020	13000	20480	8010	2170	1960	1860	2700	770	1090
MEAN	377049	388376	392021	453981	490878	442510	399919	376617	397251	404838	394978	381117
NO.	21	21	21	21	21	21	21	21	21	21	22	22
DISTR												
OF MEAN	7.7%	7.9%	8.0%	9.3%	10.0%	9.0%	8.2%	7.7%	8.1%	8.3%	8.1%	7.8%

TRINITY RIVER BASIN

08053000 Elm Fork Trinity River near Lewisville, Texas

LOCATION: Lat 33°02'43", long 96°57'41", Denton County, at the bridge on State Highway 121, 1.8 mi (2.9 km) east of Lewisville, 1.9 mi (3.1 km) downstream from Lewisville Lake, and 8.3 mi (13.4 km) upstream from Denton Creek.

DRAINAGE AREA: 1,673 mi² (4,333 km²).

PERIOD OF RECORD: March 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 432.39 ft (131.792 m) above mean sea level. Prior to Jan. 6, 1950, nonrecording gage 0.6 mi (1.0 km) upstream at datum 3.26 ft (0.994 m) lower.

AVERAGE DISCHARGE: 27 years, 434,269 ac-ft/yr (536.5 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 21,700 ft³/s (615 m³/s) Sept. 15, 1950 (gage height, 30.75 ft or 9.373 m); minimum daily, 0.8 ft³/s (0.023 m³/s) Jan. 19, 1955. Maximum discharge since the construction of Lewisville Dam in 1954, 11,400 ft³/s (323 m³/s) May 27, 1957, includes about 4,000 ft³/s (113 m³/s) passing over the spillway of Lewisville Dam and bypassing the gage.

Maximum stage since at least 1907, 33.8 ft (10.30 m) in 1908, present site and datum, from information by a local resident.

REMARKS: Records good. The flow is regulated by Lewisville Lake (station 08052800) since November 1954.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	16380	9580	57140	22540	10240	8560	10180	44680	24330	6440	-
1950	72680	139400	23560	12920	189600	66750	30870	62140	232600	24760	12680	7970	876130
1951	4420	5820	4640	6260	7530	64210	27790	18850	15650	12210	6070	6850	180500
1952	4990	4400	5710	27500	13750	8700	10620	14080	10700	6540	3720	3600	114310
1953	2800	2430	3700	32130	27020	7100	7560	8790	7330	7520	5380	4720	116480
1954	6670	3700	5440	6410	20950	10650	13310	13020	10830	10460	2220	2150	105810
1955	937	1310	2320	2650	5930	6490	12850	12300	8590	7390	6320	4890	71977
1956	5090	4210	6930	7900	9610	13060	12210	11490	8280	4810	2420	2470	88480
1957	2930	2530	3300	12550	245500	310800	230700	131200	21630	6970	206300	15730	1190340
1958	45660	19050	67360	40810	229600	192900	59640	15430	3670	1420	5230	5680	666650
1959	4740	5140	5760	5120	6910	7680	10700	12150	8760	6880	6880	46400	127120
1960	98020	23300	14820	6620	27570	8740	10550	13440	11480	7430	7670	6530	236170
1961	7830	25510	54780	26140	12080	10000	9680	14090	10660	7180	5020	5880	188850
1962	7930	6220	6140	4700	10540	22800	25120	13060	147600	132200	25740	73480	475530
1963	13510	8330	9640	10820	54000	18940	16360	3360	8190	17520	9870	8450	178990
1964	8960	5740	6510	7260	9930	14610	22630	17570	60450	79040	119200	202300	554200
1965	49800	91850	28710	9710	64090	53420	20790	14300	14240	12490	13450	13780	386630
1966	5330	59440	17560	15030	210200	216900	118300	14130	18580	11820	8980	8880	705150
1967	4910	3220	8840	8560	12520	116200	14710	19430	8360	8660	6420	5360	217190
1968	6090	5580	87400	170100	118600	130600	22560	18270	11650	8740	7940	10280	597810
1969	11020	33370	169900	105600	147900	225800	58390	24800	13460	13280	13780	14450	831750
1970	10540	15580	166400	66410	214400	75150	25400	22070	23150	23340	7910	9080	659430
1971	8560	9730	10890	10070	11580	15690	15310	6530	8170	23580	27250	170800	318160
1972	205400	9560	10320	17680	7460	15860	19700	19390	14220	10640	9500	8650	348380
1973	9960	22560	93420	41040	162100	114200	39080	80470	27470	148600	73630	27520	840050
1974	12460	7790	11540	30490	51350	48800	15530	5590	16760	21790	237400	255800	715300
1975	24330	160900	82690	87770	54180	174100	16080	13350	11430	8090	9470	11250	653840
MAX	205400	160900	169900	170100	245500	310800	230700	131200	232800	148600	237400	255800	1190340
MIN	937	1310	2320	2650	5930	6490	7560	3360	3870	1420	2220	2150	71977
MEAN	24445	26026	34254	28957	73409	73063	32470	22513	27589	24742	32029	34792	434289
NO.	26	26	27	27	27	27	27	27	27	27	27	27	26
DISTR OF MEAN	5.6%	6.0%	7.9%	6.7%	16.9%	16.8%	7.5%	5.2%	6.4%	5.7%	7.4%	8.0%	100%

TRINITY RIVER BASIN

08053500 Denton Creek near Justin, Texas

LOCATION: Lat 33°07'08", long 97°17'25", Denton County, at the bridge on Farm Road 156, 100 ft (30 m) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.2 mi (3.5 km) north of Justin, 3.0 mi (4.8 km) upstream from Olivers Creek, 12.9 mi (20.8 km) upstream from Harriet Creek, and 32.9 mi (52.9 km) upstream from Grapevine Dam.

DRAINAGE AREA: 400 m² (1,036 km²).

PERIOD OF RECORD: October 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 606.66 ft (184.910 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 27 years, 62,152 ac-ft/yr (76.8 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 29,800 ft³/s (844 m³/s) May 24, 1967 (gage height, 17.64 ft or 5.377 m); no flow at times in 1949-85 and 1967-74.

Flood in May 1935 was the highest since 1908 and reached a stage of 20.6 ft (6.28 m) at a site about 1,500 ft (457 m) upstream, from information by a local resident. Flood in May 1908 reached a stage about 1.0 ft (0.30 m) higher than flood in May 1935, from information by a local resident.

REMARKS: Records good. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	-	8340	477	416	-
1950	1800	13830	1240	5510	30460	9330	26910	3280	28160	1300	750	910	123480
1951	1000	1570	1550	1120	2210	13080	4040	40	180	0	0	0	24572
1952	6040	6840	310	1460	1780	1040	0	0	0	0	0	0	4738
1953	0	0	0	1130	3750	0	985	390	0	4490	1290	1000	13035
1954	1710	325	105	6040	2770	3050	0	0	0	0	0	0	8020
1955	0	0	0	0	2780	3450	0	0	0	0	0	0	6230
1956	0	0	0	235	1600	0	340	970	340	880	140	719	2821
1957	0	898	657	95940	107900	36000	468	520	116	896	15340	1960	260180
1958	4090	1910	9870	15560	72440	1490	1360	480	480	500	151	197	107083
1959	236	268	344	219	123	22610	3970	930	204	34710	831	4540	68148
1960	15750	4030	5370	2300	2140	1730	837	800	0	1950	3040	771	34988
1961	4260	1950	6330	3140	2530	2900	246	0	0	1230	1220	1280	25086
1962	413	317	434	4800	544	10060	2310	1150	42500	1980	11060	5540	81108
1963	2310	1270	1070	8690	13040	997	1840	0	0	0	0	0	27395
1964	0	1740	1030	6090	5160	1180	0	600	7120	277	48620	3730	73230
1965	7660	9450	3410	2030	12700	7230	361	223	4340	1260	251	511	49426
1966	709	11280	2470	19030	36130	8900	561	1150	2060	506	616	695	84107
1967	490	503	581	1030	8040	15960	149	0	0	810	390	158	27031
1968	3360	1340	25800	23900	18290	4950	2590	196	177	541	653	675	82472
1969	1550	4540	29100	9440	49660	3980	576	490	666	1080	521	4730	105892
1970	1940	7810	21560	16420	9210	2500	152	410	14000	1560	627	661	76440
1971	787	859	694	613	440	940	6640	1190	980	10100	1160	32570	49553
1972	2630	1810	1590	1920	9620	294	0	810	180	1600	1130	760	21453
1973	2000	2310	3380	17630	8180	11900	13170	5620	637	9460	5580	2120	81987
1974	1590	1740	1290	5260	2510	918	870	578	5010	27970	40170	3800	90845
1975	3020	19340	12850	12070	18150	14940	4580	707	404	965	597	1230	88853
MAX	15750	19340	29100	95940	107900	36000	26910	5620	42500	34710	48620	32570	260180
MIN	0	0	0	0	123	0	0	0	0	0	0	0	2821
MLAN	2206	3364	5040	9831	16237	6869	2438	573	4094	4088	4857	2555	62152
NO.	26	26	26	26	26	26	26	26	26	27	27	27	26
DISTR OF MEAN	3.5%	5.4%	8.1%	15.8%	26.1%	11.1%	3.9%	.9%	6.6%	6.6%	7.8%	4.1%	100%

TRINITY RIVER BASIN

08054000 Denton Creek near Roanoke, Texas

LOCATION: Lat 33°02', long 97°12', Denton County, 1,100 ft (335.3 m) downstream from the bridge on U.S. Highway 377, 1,200 ft (365.8 m) downstream from the Texas and Pacific Railway Co. bridge, 2.5 mi (4.0 km) northeast of Roanoke, and 8.5 mi (13.7 km) downstream from Olivers Creek.

DRAINAGE AREA: 621 mi² (1,608.4 km²).

PERIOD OF RECORD: October 1923 to December 1927, March 1939 to September 1955.

GAGE: Water-stage recorder. Datum of gage is 523.55 ft (159.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 22 years (1923-27, 1939-55), 111,610 ac-ft/yr (137.6 hm³/yr).

EXTREMES: Period of record (1923-27, 1939-55): Maximum discharge, 49,700 ft³/s (1,407.5 m³/s) April 20, 1942 (gage height, 30.2 ft or 9.2 m); no flow at times.

Maximum stage known, 31 ft (9.4 m) in May 1908, from floodmarks pointed out by local residents.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	4670	11030	35100	-
1924	3350	2300	31890	12140	6950	1340	242	192	2.00	0	116	11.9	58534
1925	46.6	113	118	6720	14690	99.6	78.9	143	0	2000	194	0	24203
1926	3170	82.1	9230	11740	9970	14590	10970	5770	2020	1530	109	75.90	76771
1927	7410	10720	24970	41720	3980	986	2740	1030	514	2950	41.0	5260	102321
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	2930	11690	1690	425	383	0	0	0	0	0	-
1940	0	0	175	3210	9550	18260	39170	6240	5.00	0	21750	40970	139530
1941	7720	29080	11490	35250	13490	124600	3570	3930	561	34290	10630	8840	283451
1942	4010	3090	5030	233900	62270	48840	1980	1340	4410	7960	5150	2490	380470
1943	1600	1710	29560	7320	35580	10830	301	.80	78.0	251	1.60	321	87553
1944	1110	28590	14860	18770	38340	3640	333	881	1310	815	2920	5890	117459
1945	5910	75020	78270	45970	6150	5950	15150	402	3830	16720	1810	1750	256932
1946	18890	32240	13240	5300	29630	29110	1140	309	1660	85.0	22780	29850	184234
1947	5970	2620	7770	16610	15450	1760	60.0	0	1.20	60.0	185	16560	67046
1948	12670	45700	10400	2440	3290	1550	1970	0	0	0	0	0	78020
1949	1.40	1440	7400	1120	44870	18660	838	85.0	1970	19200	644	567	96795
1950	5250	17790	2400	12390	63580	14980	44760	4840	29950	1750	972	1180	199842
1951	1130	1790	1860	1270	2510	18680	6690	2.60	202	12.0	1.80	23.0	34171
1952	3.60	74.0	239	8030	6230	2670	0	0	0	0	0	11.0	17258
1953	4.20	0	129	6310	11860	11.0	768	161	6.10	8560	2730	1400	31939
1954	2030	696	233	729	3550	3240	0	0	0	0	0	0	10476
1955	0	2.40	138	34.0	5460	5990	59.0	0	716	-	-	-	-
MAX	18890	75020	78270	233900	63580	124600	44760	6240	29950	34290	22780	40970	380470
MIN	0	0	118	34.0	1690	11.0	0	0	0	0	0	0	10478
MEAN	4014	12653	12016	22984	18528	15534	6248	1206	2249	4803	3860	75.15	111610
NO.	20	20	21	21	21	21	21	21	21	21	21	21	19
UISTR													
OF MEAN	3.6%	11.3%	10.8%	20.6%	16.6%	13.9%	5.6%	1.1%	2.0%	4.3%	3.5%	6.7%	100%

TRINITY RIVER BASIN

08054500 Grapevine Lake near Grapevine, Texas

LOCATION: Lat 32°58'21", long 97°03'22", Tarrant County, in the intake structure of Grapevine Dam on Denton Creek, 2.7 mi (4.3 km) northeast of Grapevine, 4.3 mi (6.9 km) upstream from the bridge on State Highway 121, and 11.7 mi (18.8 km) upstream from the mouth.

DRAINAGE AREA: 695 mi² (1,800 km²).

PERIOD OF RECORD: July 1952 to December 1975. Prior to October 1970, published as "Grapevine Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 16, 1953, nonrecording gage at site 1,000 ft (305 m) upstream at present datum.

EXTREMES: Period of record (1952-75): Maximum contents, 445,800 ac-ft (549.7 hm³) June 6, 1957 (elevation, 560.80 ft or 170.932 m); minimum contents since the lake first filled in 1957, 114,000 ac-ft (140.6 hm³) Mar. 6, 1964 (elevation, 523.33 ft or 159.511 m).

REMARKS: The lake is formed by a rolled earthfill dam 12,850 ft (3,917 m) long, including a 500-foot (150-m) uncontrolled off-channel concrete-gravity spillway with an ogee weir section, with a capacity of 181,100 ac-ft (223.3 hm³). The dam was completed in June 1952 and deliberate impoundment began on July 3, 1952. The controlled outlet works consist of a 13-foot diameter (4-m) concrete conduit that is controlled by two 6.5-by 13.0-foot (2.0-by 4.0-m) broome-type gates and two 30-inch (762-millimeter) steel pipes with service valves. The lake was built for flood control, navigation, and water conservation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1952	-	-	-	-	-	-	832	832	676	573	1180	1370
1953	1320	1360	1760	11820	24600	22790	22230	21120	20290	28450	30680	31250
1954	33410	33550	32980	33820	37930	38560	36260	34180	33190	32680	29830	26830
1955	23300	20980	18570	15060	21620	27820	26180	24860	24900	23930	23190	22770
1956	22690	25770	25010	25170	32360	30520	25570	20840	18010	15990	14810	15290
1957	15290	16420	17860	180600	390700	392900	291100	188400	184200	182400	197800	188500
1958	180400	180200	194100	236300	298200	214700	185500	179700	172500	164400	162300	160500
1959	158900	158400	156800	153900	151200	174500	178200	170700	165800	187400	182800	187400
1960	188400	186000	187500	184800	183600	174200	171200	167200	261500	159700	156600	157600
1961	163500	170100	184900	186000	184700	194400	179300	165200	158700	157100	155100	154100
1962	150700	148400	146800	156600	151400	162700	176900	173900	212600	190900	199800	189700
1963	185000	183400	182500	196800	186700	179000	167500	136500	122700	119200	116800	115000
1964	115200	114100	116700	139100	148900	145700	136800	132700	180300	177200	245400	190700
1965	193000	190000	189500	186600	190300	188200	177600	166400	176600	173500	172900	172300
1966	169300	185500	185500	258000	293600	250700	187400	182600	183400	179500	177300	175800
1967	169600	162500	162700	164700	175400	185800	178400	169500	164800	161300	156600	152600
1968	156600	155300	205900	199700	210300	189000	184500	177400	175800	173400	171400	168000
1969	169900	178500	222700	193000	226200	188100	179500	172100	167000	165400	162300	177300
1970	179300	203700	209900	226900	198900	185800	176600	168600	202700	187200	183300	180500
1971	178000	177600	163800	158000	153300	145100	138800	134700	131400	158600	159500	212900
1972	189700	190400	188500	181700	177400	170200	160400	152800	146600	147000	147200	145200
1973	149800	156800	166200	197500	193200	192700	192600	180200	176600	186900	187600	183300
1974	181500	180900	179000	187400	187100	186800	171800	162900	174500	254100	269800	202500
1975	183300	181000	191200	182900	205800	182900	185100	175800	166400	155700	150600	148700
MAX	193000	203700	222700	258500	390700	392900	291100	188400	212600	254100	269800	212900
MIN	1320	1360	1760	11820	21620	22790	832	832	676	573	1180	1370
MEAN	13765.7	13951.7	14479.9	15899.4	17493.1	16622.1	14709.5	13579.7	13838.2	14093.8	14395.0	14000.5
NO.	23	23	23	23	23	23	24	24	24	24	24	24
DISTR												
OF MEAN	7.8%	7.9%	8.2%	9.0%	9.9%	9.4%	8.3%	7.7%	7.8%	8.0%	8.1%	7.9%

TRINITY RIVER BASIN

08055000 Denton Creek near Grapevine, Texas

LOCATION: Lat 32°59'13", long 97°00'45", Denton County, at the bridge on State Highway 121, 1.3 mi (2.1 km) downstream from Bakers Branch, 4.3 mi (6.9 km) downstream from Grapevine Dam, 5.0 mi (8.0 km) northeast of Grapevine, and 6.1 mi (9.8 km) upstream from the mouth.

DRAINAGE AREA: 705 mi² (1,826 km²).

PERIOD OF RECORD: October 1947 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 439.11 ft (133.841 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 29 years, 108,020 ac-ft/yr (133.2 hm³/yr).

EXTREMES: Period of record (1947-75): Maximum discharge, 13,900 ft³/s (394 m³/s) Feb. 26, 1948 (gage height, 30.38 ft or 9.260 m); no flow at times. Maximum discharge since construction of Grapevine Dam in 1952, 8,430 ft³/s (182 m³/s) Sept. 21, 1964 (gage height, 26.50 ft or 8.077 m).

Flood in May 1908 was slightly higher than the flood in April 1942, which reached a stage of 35.0 ft (10.94 m), from floodmarks, from information by a local resident.

REMARKS: Records good. The flow is regulated by Grapevine Lake since July 1952 (station 08054500). Much of the flow is used by the City of Dallas for municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	-	-	91.0	217	140.00	-
1948	14540	48050	12230	2900	3690	1790	2520	0	0	0	0	0	85720
1949	553	5070	10460	1730	53510	30340	766	196	2350	25070	937	855	132637
1950	10490	25290	3410	14380	70250	14180	45200	4950	30440	2020	1180	1410	223200
1951	1290	2030	1780	1490	2970	23150	6850	35.0	270	0	0	0	39865
1952	12.0	25.0	4.80	7220	2590	1230	0	9.9	0	0	268	85.0	11445
1953	0	0	64.0	.958	209	0	0	0	0	0	1.40	0	1232
1954	0	0	0	40.0	131	1190	0	0	0	52.0	2060	2710	6183
1955	3330	2760	3090	3030	1490	862	49.0	12.0	0	0	0	0	14623
1956	0	23.0	11.0	17.0	329	.40	2730	3160	1550	1830	1120	780	11550
1957	26.0	316	259	4980	18210	56820	97430	95390	2660	1740	6720	12160	296711
1958	5860	2530	16810	16940	34900	79060	29760	1630	6720	4910	1210	1070	201400
1959	1170	966	1060	1890	2350	1830	3250	3470	1750	24760	3260	2830	48586
1960	25460	7460	4670	5700	7190	7490	5060	3270	1870	1120	906	950	71096
1961	1680	1010	1130	1280	2120	8010	12960	8820	4490	1660	2710	2750	48620
1962	3380	2560	1670	4560	2590	1040	4130	5260	62300	24910	8530	20510	141440
1963	7070	2760	3040	4450	26890	4550	6150	24300	9690	496	584	712	90692
1964	694	689	797	715	1160	2110	4510	1630	7070	974	2500	56900	79749
1965	17930	34360	6630	7460	28000	12270	5710	8440	3680	2470	998	1130	129078
1966	3660	2930	3620	8960	16930	55760	61920	4850	1750	1270	934	1100	163684
1967	6170	7440	1330	3970	4480	7040	4020	4100	3930	2300	2980	3720	51480
1968	3860	3810	8270	45760	31500	27700	6230	3490	3560	4300	3760	4040	146280
1969	4530	2460	8210	52230	51360	40350	3980	4170	4010	3970	2270	2140	179680
1970	2930	5130	55070	40380	50990	13720	4760	5490	6680	16330	2840	2970	207290
1971	2700	982	11880	6080	3860	5370	3440	3540	3070	2810	862	22810	67404
1972	25020	1470	2470	1380	10480	4510	4300	4190	4310	4780	1380	1370	65660
1973	1210	774	485	3460	24080	24780	12490	14270	4300	12700	6050	6220	110819
1974	3930	2970	2840	3220	4580	3390	8740	9690	4570	2130	54860	75650	176570
1975	30070	48330	10010	38610	21570	44800	8500	6950	4550	5730	2880	2020	224020
MAX	30070	48330	55070	52230	70250	79060	97430	95390	62300	25870	54860	75650	296711
MIN	0	0	0	17.0	131	0	0	0	0	0	0	0	1232
MEAN	6342	7578	6118	10135	17086	16903	12338	7904	6270	5146	3863	8337	108020
NO. OF STR	28	28	28	28	28	28	28	28	28	29	29	29	28
OF MEAN	5.9%	7.0%	5.7%	9.4%	15.8%	15.6%	11.4%	7.3%	5.8%	4.8%	3.6%	7.7%	100%

TRINITY RIVER BASIN

0805500 Elm Fork Trinity River near Carrollton, Texas

LOCATION: Lat 32°57'57", long 96°56'39". Dallas County, at the bridge on Sandy Lake Road, 40 ft (12 m) upstream from Carrollton Dam, 0.3 mi (0.5 km) downstream from Denton Creek, 1.0 mi (1.6 km) upstream from the St. Louis-Southwestern Railway Co. bridge, and 2.3 mi (3.7 km) northwest of Carrollton.

DRAINAGE AREA: 2,459 mi² (6,369 km²).

PERIOD OF RECORD: January 1907 to December 1975. Prior to November 1923, published as "near Dallas".

GAGE: Water-stage recorder and concrete control. Datum of gage is 433.40 ft (132.100 m) above mean sea level, datum of 1929. Prior to November 1923, nonrecording gage at site 15.5 mi (24.9 km) downstream at different datum. Nov. 1, 1923 to Nov. 13, 1924, nonrecording gage, and Nov. 14, 1934 to July 6, 1938, water-stage recorder at present site and datum, July 7, 1938 to Apr. 14, 1939, nonrecording gage at site 9.3 mi (15.0 km) downstream at datum 22.94 ft (6.992 m) lower. Apr. 15, 1939 to Sept. 30, 1955, water-stage recorder at site 8.5 mi (13.7 km) downstream at datum 22.94 ft (6.992 m) lower.

AVERAGE DISCHARGE: 69 years, 574,863 ac-ft/yr (708.8 hm³/yr).

EXTREMES: Period of record (1907-75): Maximum gage height, about 17 ft (5.2 m) May 25, 1908, present site and datum, from information by a local resident, estimated discharge, 145,000 ft³/s (4,110 m³/s), at site 8.5 mi (13.7 km) downstream (from information by the Corps of Engineers); maximum gage height subsequent to 1908, 14.5 ft (4.42 m) Apr. 25, 1942, present site and datum, from observations by the National Weather Service; discharge at site 8.5 mi (13.7 km) downstream, 90,700 ft³/s (2,570 m³/s); no flow at times.

Flood in 1869 reached about the same stage as the flood of May 25, 1908.

REMARKS: Records good. The flow is largely regulated by Lewisville Lake (station 08052800) since November 1954 and by Grapevine Lake (station 08054500) since July 1952.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1907	3270	3580	6820	3150	132000	135000	76700	1170	100	38500	39700	64000	503891
1908	8900	72100	42300	456000	621000	244000	73100	6050	7840	78900	6760	13100	1630050
1909	452	380	590	702	610	16400	940	0	0	0	559	12300	32384
1910	516	970	0	21500	2190	2210	12600	0	0	0	0	0	39113
1911	0	100	0	0	0	0	6190	25800	18500	332	0	12500	63323
1912	0	0	24900	82900	23900	27300	640	54600	187	0	1110	0	214961
1913	0	0	100	3230	19900	1530	15500	132	3020	9970	86200	22700	366484
1914	7840	5630	25200	107000	175000	95700	0	109000	23500	6760	13700	41500	610830
1915	22600	43200	86300	155000	169000	223000	24700	81800	18600	59700	6760	6570	897230
1916	125000	63400	17700	349000	148000	53700	3130	171	9280	220	610	1360	771373
1917	770	710	3240	46400	41000	18500	13200	6380	3230	100	0	0	132738
1918	0	0	0	102000	20500	16800	1140	0	20100	79500	147000	123000	510840
1919	122000	121000	30900	129000	71400	29500	121000	16100	6400	214000	161000	46600	1068900
1920	207000	27700	75500	27500	407000	87900	14100	65400	205000	92400	38700	56600	1304000
1921	121000	119000	58600	165000	14200	45600	10400	16200	161	0	0	105	535686
1922	547	800	1340	301000	269000	39100	9900	0	0	0	7220	0	628907
1923	5040	22500	14000	35700	15400	179000	2460	6300	0	29300	51000	31200	666406
1924	16900	12500	182000	72300	37100	6620	2410	657	146	232	4000	1320	332225
1925	345	0	0	39900	72400	698	0	572	2750	30000	5540	6400	152269
1926	22700	1210	32100	60200	92900	82400	172000	44300	15200	17600	1770	47600	589980
1927	46600	93800	177000	173000	61600	21300	36100	1890	1770	30700	8570	6890	659220
1928	13400	15200	3550	34600	43600	52200	14900	3380	976	7260	7900	33900	230766
1929	25600	20300	18900	22200	264000	61900	3130	2630	12900	25300	4810	50800	512470
1930	4880	5660	4650	5240	167000	11100	4360	3820	2300	29500	30200	88500	357210
1931	21400	50600	119000	47400	11500	13300	8850	7130	5020	21000	6190	12100	323490
1932	342000	304000	95900	24900	45000	17900	89800	9220	18100	9900	12000	38000	1006720
1933	31700	21400	129000	19500	94700	43100	24100	28800	23100	18300	9700	5780	449180
1934	12300	12500	40200	44200	30800	5550	5730	4720	4610	4620	8190	4590	178010
1935	12100	8810	12120	11500	607600	213400	20790	22690	20170	17910	28890	120600	1095660
1936	27360	13600	7710	5710	42450	8790	7010	6200	90730	127900	65920	18180	421560
1937	81000	23640	30640	13470	11190	21240	7250	43010	29440	7660	9600	27530	305670
1938	75820	266800	290200	164400	15660	13980	8500	22700	8270	5670	3230	2860	878090
1939	2580	2760	12290	54550	9870	8990	9830	8720	6610	6260	10630	3880	137170
1940	4120	4000	5720	42410	54290	99410	107500	16770	9030	9120	71470	199100	622940
1941	54010	62938	74580	153200	89090	589200	28140	15150	13020	69530	58080	23540	1230470
1942	17170	12540	12950	989500	222800	165500	21750	20360	28830	37920	15710	19380	1564410
1943	14180	20210	103200	47250	98360	69250	13250	12050	12350	8970	5340	6310	410720
1944	8000	59570	89360	58760	200400	38720	18400	19870	18870	14010	15830	37170	578960
1945	21950	320300	522300	303000	32590	102500	118800	16640	31020	117500	23600	18130	1628330
1946	54640	175800	80260	49990	156200	331600	18160	17820	19320	15640	164900	201100	1285430
1947	42210	19780	39110	47060	41820	55230	23850	25960	21170	14810	13070	70600	414670
1948	49350	182500	122500	12530	61380	31940	37860	28150	26120	15080	8300	6870	582580
1949	21560	46660	39240	13350	160400	96380	11810	9180	13490	80650	30340	7300	530360
1950	91030	183100	29540	29950	290200	82860	77640	65980	275600	28150	13940	10390	1178380
1951	6360	9800	7290	7830	11520	89710	36630	19970	17160	13120	5610	6370	231270
1952	5220	4590	4330	33940	13700	5850	6430	7910	6500	4540	6450	5220	104680
1953	3760	2760	5490	33160	35090	3770	5620	6220	4290	5500	4000	2310	111970
1954	3390	790	0	4220	25500	8390	8690	8060	6520	8600	3680	409	77538
1955	3970	4960	3170	2590	5210	6240	7500	7670	4100	3250	2300	1680	52640
1956	1570	2810	4970	5570	8410	8470	9100	9720	6160	2990	250	291	60311

TRINITY RIVER BASIN

08055500 Elm Fork Trinity River near Carrollton, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1957	49.0	115	203	37270	261400	351100	300100	215400	19180	4230	194500	24560	1408107
1958	50860	21100	84600	63920	247100	257400	82560	12360	7260	3350	7000	3280	840790
1959	54.0	1880	3410	4090	4780	4760	10810	8680	5970	30630	4940	41550	121554
1960	119000	29030	16760	8610	32410	11180	11230	15260	8650	4980	5270	4530	266910
1961	8290	25740	53490	24850	9460	13260	17630	16350	10660	6390	6280	5380	197780
1962	6140	5650	4390	8130	7610	21740	33480	13210	202700	147600	30980	87720	569350
1963	15390	7370	8260	10320	72220	18190	15670	18580	11630	10200	5910	5950	199690
1964	5660	1300	3360	6420	8350	9930	15120	10320	90450	71020	118300	252700	592930
1965	69510	133700	31600	13100	96650	64310	19000	15440	12420	11900	14100	12380	494110
1966	5840	58040	17160	40350	216900	255400	170400	12220	15910	10700	6320	7150	816390
1967	7260	7120	5680	10840	15830	110400	12680	13690	6620	5850	5470	4650	206090
1968	7500	5890	95780	213200	144300	139600	17760	10700	6390	6900	6480	7790	662290
1969	9530	26430	166500	150100	185900	226700	43440	16980	10100	10140	8460	9780	864060
1970	6520	17060	230300	110700	262300	83260	18480	17160	22170	35870	5430	6340	815590
1971	5550	4600	19700	11440	8110	8860	8860	4520	3950	31630	21780	214900	343900
1972	229200	2170	6140	11470	10460	9120	11060	10990	9420	7780	4220	5460	317490
1973	4510	16140	89490	48130	196900	139300	42740	83660	24150	163500	75690	29770	913980
1974	13370	2860	4590	24060	45890	42650	11300	6400	15710	20270	319700	366800	873600
1975	57950	235100	93730	134500	78200	236000	16780	9790	7640	5790	5840	6120	887440
MAX	342000	320300	522300	989500	621000	589200	300100	215400	275600	214000	319700	366800	1630050
MIN	0	0	0	0	0	0	0	0	0	0	0	0	32384
MEAN	34575	44153	52490	80347	103604	80955	32031	20259	22647	29091	29896	44815	574863
NO.	69	69	69	69	69	69	69	69	69	69	69	69	69
DISTR													
OF MEAN	6.0%	7.7%	9.1%	14.0%	18.0%	14.1%	5.6%	3.5%	3.9%	5.1%	5.2%	7.8%	100%

TRINITY RIVER BASIN

08055700 Bachman Branch at Dallas, Texas

LOCATION: Lat 32°51'37", long 96°50'13", Dallas County, at the bridge on Midway Road in Dallas, 1,300 ft (396 m) south of the Northwest Highway bridge (Loop 12), 1.5 mi (2.4 km) upstream from Bachman Lake Dam, and 6.0 mi (9.7 km) northwest of the Dallas City Hall.

DRAINAGE AREA: 10.0 mi² (25.9 km²).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. From May 1, 1970 to Feb. 28, 1974, at site 2,300 ft (700 m) upstream at the same datum.

AVERAGE DISCHARGE: 13 years, 6,833 ac-ft/yr (8.4 km³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 18,000 ft³/s (453 m³/s) Apr. 28, 1966 (elevation, 467.97 ft or 142.637 m); no flow at times most years.

Maximum stage since at least 1900, that of Apr. 28, 1966.

REMARKS: Records good. The flow is slightly regulated by several small channel dams above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	8.90	120	-
1964	296	214	958	478	297	60.0	26.0	253	2600	43.0	937	159	6321
1965	391	1600	258	277	2460	473	20.0	14.0	370	86.0	256	138	6343
1966	154	492	383	6680	1300	636	128	439	135	191	53.0	96.0	10687
1967	61.0	81.0	143	407	423	103	110	10.0	333	671	255	494	3091
1968	869	370	2410	661	895	563	154	852	323	255	769	226	8347
1969	453	667	1090	566	2410	62.0	0	25.0	275	645	217	660	7090
1970	306	1310	1290	1120	797	153	17.0	423	1330	470	89.0	147	7452
1971	71.0	337	116	336	457	217	866	947	140	2450	192	2720	8849
1972	208	150	155	428	119	212	292	37.0	56.0	864	532	173	3248
1973	684	534	679	701	903	1400	673	82.0	742	1380	431	315	8524
1974	476	295	220	600	577	934	197	440	1880	1080	704	361	7764
1975	635	1220	527	974	1170	406	359	59.0	28.0	11.0	74.0	90.0	5553
MAX	869	1600	2410	6680	2460	1400	866	947	2600	2450	937	2720	10687
MIN	61.0	81.0	116	277	119	60.0	0	10.0	28.0	0	8.90	90.0	3091
MEAN	384	606	686	1102	984	435	237	298	685	628	348	440	6833
NO. OF DISTR	12	12	12	12	12	12	12	12	12	13	13	13	12
OF MEAN	5.6%	8.9%	10.0%	16.1%	14.4%	6.4%	3.5%	4.4%	10.0%	9.2%	5.1%	6.4%	100%

TRINITY RIVER BASIN

08056500 Turtle Creek at Dallas, Texas

LOCATION: Lat 32°48'26", long 96°48'08", Dallas County, 68 ft (21 m) upstream from the Hall Street Dam, 210 ft (64 m) upstream from Hall Street in Dallas, and 2.0 mi (3.2 km) north of the Dallas County Courthouse.

DRAINAGE AREA: 7.98 mi² (20.67 km²).

PERIOD OF RECORD: October 1951 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 428.13 ft (130.494 m) above mean sea level, datum of 1929. Prior to Dec. 17, 1951, at site 52 ft (16 m) upstream at same datum.

AVERAGE DISCHARGE: 25 years, 6,904 ac-ft/yr (7.3 hm³/yr).

EXTREMES: Period of record (1951-75): Maximum discharge, 12,200 ft³/s (346 m³/s) Apr. 28, 1966 [gage height, 10.54 ft or 3.213 m]; no flow at times most years.

Maximum stage since at least 1803, that of April 28, 1966.

REMARKS: Records good. The flow is slightly regulated by eight small channel dams above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	-	-	-	-	-	-	246	47.0	51.0	-
1952	119	158	257	852	798	78.0	214	26.0	53.0	59.0	724	454	3792
1953	210	186	482	629	529	53.0	19.0	93.0	337	332	477	330	3677
1954	428	153	111	1090	877	224	67.0	114	206	341	169	116	3896
1955	162	246	422	390	499	495	69.0	239	312	31.0	96.0	27.0	2988
1956	106	248	122	429	742	41.0	4.60	60.0	0	86.0	227	159	2225
1957	140	84.0	688	3430	3190	275	56.0	67.0	194	516	396	274	9310
1958	282	143	794	1540	853	59.0	185	60.0	225	40.0	117	116	4414
1959	162	445	122	113	249	436	307	198	344	2330	591	845	6142
1960	682	355	207	342	194	218	497	408	136	202	92.0	835	4168
1961	751	488	714	188	218	715	150	78.0	380	335	511	470	4998
1962	168	434	328	1540	332	619	1380	317	794	1000	885	139	7936
1963	144	93.0	162	1530	261	390	253	110	85.0	27.0	235	208	3498
1964	395	279	949	586	468	59.0	47.0	241	2590	34.0	833	211	6692
1965	391	1420	428	391	2530	351	90.0	143	653	198	321	198	7114
1966	195	585	761	4970	801	591	369	516	404	195	98.0	196	9681
1967	81.0	83.0	315	551	645	229	287	56.0	582	631	186	360	4006
1968	545	328	1340	611	798	881	327	520	271	252	540	167	6580
1969	516	479	770	507	2930	129	45.0	186	328	1160	264	547	7861
1970	198	1160	914	929	584	211	56.0	587	1250	409	117	144	6559
1971	99.0	215	118	438	491	270	418	911	399	2440	259	2130	8188
1972	234	130	178	454	219	314	232	225	147	896	527	177	3733
1973	698	524	926	1040	999	2490	605	123	950	1250	491	240	10336
1974	473	292	218	637	819	1000	223	813	2100	1300	632	338	8845
1975	395	1130	532	855	1370	485	620	118	62.0	33.0	163	211	5974
MAX	751	1420	1340	4970	3190	2490	1380	911	2590	2440	885	2130	10336
MIN	81.0	83.0	111	113	194	41.0	4.60	26.0	0	27.0	47.0	27.0	2225
MEAN	316	402	494	1002	1892	442	272	259	533	574	360	358	5904
NO.	24	24	24	24	24	24	24	24	24	25	25	25	24
DISTR													
OF MEAN	5.3%	6.8%	8.4%	17.0%	15.1%	7.5%	4.6%	4.4%	9.0%	9.7%	6.1%	6.1%	100%

TRINITY RIVER BASIN

08057000 Trinity River at Dallas, Texas

LOCATION: Lat 32°46'31", long 96°49'18", Dallas County, at the Commerce Street viaduct in Dallas, and 5.2 mi (8.4 km) downstream from the confluence of the West and Elm Forks.

DRAINAGE AREA: 6,106 mi² (15,815 km²).

PERIOD OF RECORD: July 1903 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 368.02 ft (112.172 m) above mean sea level, datum of 1929. Oct. 1, 1898 to Dec. 31, 1899, nonrecording gage at site 2 mi (3 km) upstream at different datum. July 1, 1903 to July 20, 1930, nonrecording gage at present site and datum. July 21, 1930 to Sept. 30, 1932, nonrecording gage at site 6 mi (10 km) downstream at datum 3.08 ft (0.939 m) lower.

AVERAGE DISCHARGE: 73 years, 1,094,923 ac-ft/yr (1,350.0 hm³/yr).

EXTREMES: Period of record (1903-75): Maximum discharge, 184,000 ft³/s (5,210 m³/s) May 25, 1908 (stage height, 52.6 ft or 16.03 m); minimum observed for periods 1903-06 and 1920-75, 1.2 ft³/s (0.034 m³/s).

Maximum stage since at least 1840, that of May 25, 1908.

REMARKS: Records good. The flow is largely regulated by 12 major upstream reservoirs having a combined capacity of 2,323,000 ac-ft (2,864.2 hm³), of which 846,200 ac-ft (1,043.4 hm³) is for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1903	-	-	-	-	-	-	112000	4400	950	77800	6340	811	-
1904	3430	3280	76900	48300	59900	95500	5890	10900	9140	8350	2500	1190	325280
1905	5020	8240	51100	195000	398000	51900	290000	16700	8410	28800	70600	105000	1228770
1906	31500	96900	46900	65800	392000	190000	117000	133000	105000	12500	10900	16300	1217800
1907	15100	11200	22300	14100	169000	197000	115000	5050	1260	75600	62000	94000	781610
1908	15700	90200	54200	811000	1270000	319000	136000	24300	21400	83900	16800	29500	2872000
1909	10400	6840	7280	10700	5840	57600	31700	33100	2440	3480	5150	48900	223430
1910	5010	5040	2070	51200	49000	31800	46800	2310	3000	6740	4080	2200	209250
1911	1290	4740	2760	2980	1170	627	27600	32800	78700	2210	964	35500	191341
1912	1910	1000	27600	114000	26600	56400	2570	90100	1810	1830	2850	2000	328870
1913	2180	1830	2120	17700	54200	7990	19200	1810	19200	55900	124000	532000	838130
1914	18300	11900	19900	246000	359000	178000	4970	163000	78600	4500	4220	126000	1224390
1915	56600	64600	130000	334000	325000	472000	45000	135000	44200	97200	12400	11500	1729500
1916	216000	105000	33100	674000	244000	84600	8640	4050	15600	16900	4120	21600	1427610
1917	7150	3580	9360	73400	65100	26400	24400	16500	12800	1120	1130	1330	242290
1918	2160	1340	1730	171000	53400	73100	23500	2460	34900	111000	375000	217000	1061590
1919	230000	186000	52800	235000	187000	76900	248000	40100	23700	418000	307000	104000	2108500
1920	307000	72300	153000	67900	1000000	188000	36700	83000	288000	138000	75000	101000	2509900
1921	180000	172000	114000	211000	37600	97600	40000	5230	1750	2560	2450	1750	865990
1922	2620	3010	3400	649000	584000	92200	16700	2040	1420	1540	9620	1660	1367210
1923	10800	36500	21400	130000	111000	330000	7170	2070	2310	66000	138000	369000	1224450
1924	25900	26600	307000	119000	102000	26800	3380	2650	1580	1150	1580	2000	619640
1925	1970	1830	1850	56200	200000	2980	2030	964	2500	42600	12600	1640	327164
1926	57500	4570	76700	158000	134000	123000	704000	112000	84900	37400	4050	80600	1076720
1927	64800	121000	283000	344000	113000	37300	53500	4510	7480	93500	10400	76900	1209390
1928	19400	39300	11300	110000	75600	150000	70700	24500	2210	6330	19100	188000	716240
1929	74400	79400	70700	82100	436000	161000	4330	3790	17700	29000	5580	55700	1019700
1930	6700	8890	8360	15600	523000	66000	3520	3350	3650	122000	28600	163000	952670
1931	31800	86100	190000	106000	29800	26300	12400	10300	6130	57900	25700	39700	622130
1932	646000	521000	168000	47100	133000	54000	197000	11900	114000	12500	14500	89800	2008800
1933	100000	45000	254000	78000	193000	121000	35000	59500	59500	18400	15100	14900	993400
1934	26600	19400	77500	82100	41300	5430	5990	4880	6600	4190	10590	5220	289800
1935	21340	16520	17510	15720	807300	364400	76280	48530	29820	27120	33950	146500	1598990
1936	45190	16200	8660	5920	97680	41190	11180	3480	141900	226100	105500	28360	731360
1937	106600	35220	79100	25470	13090	46900	6150	43520	38470	20690	24010	81610	520830
1938	236100	466300	332300	354500	43090	22140	17270	28980	8790	11470	6010	3260	1530210
1939	16500	6970	19450	65910	22400	19160	8700	8910	5680	5390	9720	3860	192650
1940	3840	4430	4690	55090	94820	200400	214900	23000	8340	8490	126800	373900	1118900
1941	113100	231000	144400	246300	253700	1035000	258500	78040	45870	174000	141800	57910	2799620
1942	63240	32070	38890	1610000	669000	383200	96710	40720	81230	143200	72760	36200	3267220
1943	20660	26830	155700	106900	168900	142500	13600	10820	23900	10950	5720	8180	694660
1944	12460	85370	164800	80200	401700	66340	23780	22120	33320	22670	23350	62710	998820
1945	50850	512100	916900	600800	101500	146700	210700	33300	40560	182700	51340	36050	2883500
1946	115500	284900	136900	83100	298600	406800	70220	44390	29640	18870	313000	308800	2060720
1947	86290	39090	63710	105200	64390	131700	26120	71820	47600	30110	18970	136800	821800
1948	92710	284800	211800	21340	61550	57490	59040	28080	25700	14660	8010	8760	893940
1949	67340	151000	97940	37730	532800	204700	18010	10200	21550	130600	46570	14320	1332760
1950	122600	354100	55640	107800	493800	103700	137200	148400	354200	68380	54630	20300	2020750
1951	15250	16620	17990	10830	22330	160700	37560	17400	17540	14430	7960	8050	346660
1952	7110	8840	7940	50680	43380	8380	7450	5430	5900	5080	17400	11720	179310

TRINITY RIVER BASIN

08057000 Trinity River at Dallas, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	9300	6090	11580	51580	103300	4050	9640	5170	5550	12790	7760	6440	233250
1954	9660	5040	4890	12310	39430	8830	3810	5320	6140	10170	4950	4560	115110
1955	5200	6050	8900	5450	25360	19020	5060	5290	5820	4770	3460	4300	98680
1956	4910	8700	4200	6150	32220	7370	3190	3090	3120	5050	7680	7120	90800
1957	4820	6850	10530	360700	928400	838200	345000	223400	24700	18320	271600	59340	3091860
1958	80080	49670	169600	237500	614800	275000	94850	7800	26660	25680	11830	8350	1601820
1959	8250	16660	10300	15650	18800	41050	16780	8750	8080	304700	22900	62610	534530
1960	241400	68240	33850	23370	45790	11820	22160	23830	10440	13850	8180	20900	523830
1961	63090	66540	96920	35350	18840	83490	29790	14510	16460	16150	15480	15660	472280
1962	13260	15570	11950	52310	14480	25390	75330	63380	422900	212900	47980	142200	1097650
1963	22230	12190	12620	64130	112600	22480	16630	13730	15310	9370	8190	9150	318830
1964	13770	10400	31680	31010	23960	11850	11790	16860	185400	87820	193800	272000	890340
1965	103100	294200	71200	31960	333000	89810	21400	18500	34350	21390	24010	20130	1063050
1966	14340	83410	33020	236100	606000	363000	182000	30420	33500	40200	13240	14510	1649740
1967	13000	12710	15930	41720	35830	126400	24340	13130	25620	33590	18170	24120	384560
1968	63830	36120	345600	310300	302400	192200	37260	24650	20620	21580	26510	21180	1402250
1969	24990	48070	248400	259300	665100	238500	43920	22040	29760	45280	22130	40020	1687510
1970	45370	97920	419900	212900	348200	101300	18970	24700	72970	65130	10990	14130	1432480
1971	14570	15010	26560	31100	25670	13940	24670	29530	14210	177000	45280	475800	893340
1972	262200	18180	14830	33550	32570	16360	13860	14200	15240	48340	37490	15350	522170
1973	53300	70190	158100	179600	263700	349100	125000	101700	71910	277300	120300	49750	1819950
1974	49350	29540	20840	46420	110700	85120	16500	37400	86280	72900	578800	369800	1503650
1975	90940	425200	144900	269200	199100	388400	110000	42240	16320	10830	11190	17190	1725510
MAX	646000	521000	916900	1610000	1270000	1035000	345000	223400	422900	418000	578800	532000	3267220
MIN	1290	1000	1730	2980	1170	627	2030	964	950	1120	964	811	90800
MEAN	63679	80715	92513	159324	229069	142424	60910	33740	43482	58752	54279	76036	1094923
NO.	72	72	72	72	72	72	73	73	73	73	73	73	72
DISTR													
OF MEAN	5.8%	7.4%	8.4%	14.6%	20.9%	13.0%	5.6%	3.1%	4.0%	5.4%	5.0%	6.9%	100%

TRINITY RIVER BASIN

08057100 White Rock Crank at Keller Springs Road at Dallas, Texas

LOCATION: Lat 32°58'13", long 96°48'18", Dallas County, at the bridge on Keller Springs Road, 0.5 mi (0.8 km) upstream from the St. Louis-Southwestern Railway Co. bridge, 0.9 mi (1.4 km) upstream from Spanky Branch, and 13 mi (21 km) north of the Dallas County Courthouse.

DRAINAGE AREA: 29.4 mi² (76.1 km²).

PERIOD OF RECORD: August 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 25, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 15 years, 13,644 ac-ft/yr (16.8 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 37,900 ft³/s (1,070 m³/s) Sept. 21, 1964 (elevation, 674.51 ft or 175.111 m); no flow for many days most years.

Maximum elevation since at least 1886, that of Sept. 21, 1964.

REMARKS: Records good. The flow is slightly regulated by two small floodwater-retarding structures above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	9.1	72.0	193	387	379	-
1962	414	308	421	2020	371	4300	4500	659	1700	2120	1500	1000	19313
1963	413	222	362	446	518	55.0	12.0	0	0	0	0	0	2028
1964	0	0	42.0	158	1210	67.0	0	0	19420	253	4180	868	26198
1965	1040	4270	741	551	4980	909	37.0	4.0	184	28.0	185	81.0	13006
1966	90.0	517	103	13050	1930	1460	230	988	398	345	165	169	19445
1967	76.0	87.0	378	1230	1330	256	36.0	0	23.0	175	167	378	4136
1968	1330	949	6160	1900	2400	662	167	180	36.0	33.0	182	274	14094
1969	970	873	2350	1380	7960	375	6.70	0	0	257	104	542	14818
1970	432	2130	2620	2990	1800	1390	37.0	0	442	296	95.0	79.0	12311
1971	68.0	93.0	91.0	19.0	45.0	1.00	2.0	1440	112	5720	648	10370	18607
1972	783	378	151	138	77.0	34.0	0	0	0	264	625	323	2773
1973	710	1030	1700	3440	2350	4270	463	156	3290	4310	981	637	23337
1974	547	459	221	2600	288	320	2.10	53.0	609	2280	3630	1130	12139
1975	2090	5260	1430	2100	829	904	88.0	28.0	9.5	1.30	17.0	36.0	12793
MAX.	2090	5260	6160	13050	7960	4300	4500	1440	19420	5720	4180	10370	26198
MIN.	0	0	42.0	19.0	45.0	1.00	0	0	0	0	0	0	2028
MEAN	640	1184	1198	2287	1863	1072	398	222	1753	1085	858	1084	13644
NO.	14	14	14	14	14	14	14	15	15	15	15	15	14
DISTR OF MEAN	4.7%	8.7%	6.8%	16.8%	13.7%	7.9%	2.9%	1.6%	12.8%	8.0%	6.3%	7.9%	100%

TRINITY RIVER BASIN

08057200 White Rock Creek at Greenville Avenue at Dallas, Texas

LOCATION: Lat 32°53'21", long 96°45'23", Dallas County, 20 ft (6 m) downstream from the bridge on Greenville Avenue in Dallas, 1.1 mi (1.8 km) downstream from the Texas and New Orleans Railroad Co. bridge, 1.2 mi (1.9 km) downstream from Cottonwood Creek, 2.9 mi (4.7 km) upstream from White Rock Lake, and 3.2 mi (5.2 km) northeast of the Dallas County Courthouse.

DRAINAGE AREA: 66.4 mi² (172.0 km²).

PERIOD OF RECORD: August 1961 to December 1975.

GAGE: Water stage recorder. Datum of gage is at mean sea level. Prior to Oct. 24, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 15 years, 42,904 ac-ft/yr (52.9 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 38,100 ft³/s (1,080 m³/s) Sept. 21, 1964 (elevation, 490.43 ft or 149.483 m); minimum daily, 0.01 ft³/s (0.0003 m³/s) July 8, 1970, June 27, and July 14, 1971.

Maximum elevation since at least 1886, that of September 21, 1964.

REMARKS: Records good. There is some regulation of the flow by on- and off-channel dams from which many small diversions are made.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	79.0	686	872	1740	2250	-
1962	1250	1470	1370	4890	1330	10910	15490	2410	5790	10520	3770	2530	61730
1963	1260	730	869	2360	2050	873	1300	78.0	55.0	51.0	176	268	10070
1964	403	530	1640	1510	2610	497	48.0	464	37110	2230	9920	1630	58592
1965	1650	14090	1900	1350	18000	2880	446	168	1330	530	988	616	43948
1966	757	1600	1510	41070	10800	2800	1240	2600	1860	1530	434	646	66847
1967	408	344	1240	3260	6110	1320	552	126	2290	2250	1250	2320	21470
1968	4420	2640	16500	4940	5650	2740	986	2120	907	623	1500	980	44006
1969	2260	3040	6030	3720	25660	882	124	289	552	3330	1250	2460	49597
1970	1630	6680	8190	8220	5950	3050	140	595	3280	1220	552	787	40294
1971	407	1170	735	986	1010	776	2090	4330	987	15420	1170	24330	53411
1972	1670	658	740	1220	974	1180	217	138	198	2380	2670	1170	13215
1973	3020	3370	6160	7610	6530	12100	3100	655	6150	10060	3180	1900	63835
1974	2280	1820	1070	4830	1640	3700	479	1040	7060	8360	8070	3390	43739
1975	4880	11540	3290	7080	5680	3360	1500	553	220	102	487	709	39401
MAX	4880	14090	16500	41070	25660	12100	15490	4330	37110	15420	9920	24330	66847
MIN	403	344	735	986	974	497	48.0	78.0	55.0	51.0	176	268	10070
MEAN	1878	3549	3660	6646	6714	3362	1979	1043	4565	3965	2477	3066	42904
NO. OF MEAN	14	14	14	14	14	14	14	15	15	15	15	15	14
DISTR	4.4%	8.3%	8.5%	15.5%	15.6%	7.8%	4.6%	2.4%	10.6%	9.2%	5.8%	7.1%	100%

TRINITY RIVER BASIN

08057300 White Rock Creek at White Rock Lake at Dallas, Texas

LOCATION: Lat 32°48'31", long 96°43'32", Dallas County, 500 ft (150 m) upstream from the right end of White Rock Lake spillway, 1,500 ft (457 m) upstream from the bridge on Garland Road (State Highway 78) in Dallas, and 10.9 mi (16.6 km) upstream from the mouth.

DRAINAGE AREA: 100 mi² (260 km²).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder and flat-crested concrete dam. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 14 years, 59,257 ac-ft/yr (73.1 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 28,300 ft³/s (801 m³/s) Sept. 21, 1964 (elevation, 465.60 ft or 141.915 m); no flow at times each year.

Maximum elevation since 1910, that of Sept. 21, 1964.

REMARKS: Records poor below 50 ft³/s (1.42 m³/s) and fair above. The discharge is the outflow of White Rock Lake (capacity, 10,700 ac-ft or 13.2 hm³ at the spillway crest).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	15560	3780	2060	-
1963	1070	185	390	5860	1980	6000	0	0	0	0	0	0	9545
1964	0	0	1160	2140	3700	615	0	0	34290	1300	10580	1960	55745
1965	3300	15820	2240	2400	22210	4060	370	1400	699	265	1290	370	53038
1966	370	3040	2300	57120	12040	4410	1000	4000	2200	1760	6100	7300	88374
1967	9600	6000	883	3210	6220	2270	742	0	3450	3660	2190	2970	25697
1968	7170	4310	19760	7050	9880	5540	3360	2460	627	553	1460	1170	63340
1969	3050	4680	9170	6070	35810	831	1200	0	0	3930	1620	3780	69153
1970	3490	8930	12910	11280	11950	7310	253	546	4410	2660	1320	167	65226
1971	0	1460	1120	0	504	650	2490	6320	1220	25870	1290	39310	80234
1972	1620	281	261	1560	989	814	0	0	0	3230	3420	428	12603
1973	3440	5060	9020	12730	9860	25280	7050	156	6990	15000	4710	1870	101166
1974	3310	2870	1080	5400	3590	6720	60	2530	19010	13330	12840	5640	76321
1975	5540	18020	4480	10040	14080	6560	2380	295	117	0	0	735	62247
MAX	7170	18020	19760	57120	35810	25280	7050	6320	34290	25870	12840	39310	101166
MIN	0	0	261	0	504	6000	0	0	0	0	0	0	9545
MEAN	2497	4974	4983	9605	10216	5009	1358	1255	5616	6223	3197	4324	59257
NO.	13	13	13	13	13	13	13	13	13	14	14	14	13
DISTR OF MEAN	4.2%	8.4%	8.4%	16.2%	17.2%	8.5%	2.3%	2.1%	9.5%	10.5%	5.4%	7.3%	100%

TRINITY RIVER BASIN

08057400 White Rock Creek at Scyene Road at Dallas, Texas

LOCATION: Lat 32°45'57", long 96°43'49", Dallas County, 30 ft (9 m) downstream from the Texas and New Orleans Railroad Co. bridge, 125 ft (38 m) downstream from Scyene Road (State Highway 352) in Dallas, 4.5 mi (7.2 km) east of the Dallas County Courthouse, and 5.8 mi (9.3 km) upstream from the mouth.

DRAINAGE AREA: 122 mi² (316 km²).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Dec. 7, 1962, nonrecording gage 30 ft (9 m) upstream at same datum.

AVERAGE DISCHARGE: 14 years, 91,024 ac-ft/yr (89.9 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 30,200 ft³/s (855 m³/s) Sept. 21, 1964 (elevation, 404.30 ft or 123.231 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Aug. 2, 3, 1964.

Maximum elevation since at least 1886, 409.2 ft (124.72 m) May 26, 1908 (affected by backwater from the Trinity River); maximum discharge since at least 1886, that of Sept. 21, 1964.

REMARKS: Records good. The flow is partly regulated by White Rock Lake (capacity, 10,700 ac-ft or 13.2 hm³ at normal level) located 4.5 mi (7.2 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	18050	4360	5400	-
1963	2420	844	1260	10340	4390	799	807	170	103	74.0	230	304	21741
1964	563	301	3780	3790	5050	462	104	217	38480	1720	13220	3200	70887
1965	5030	19890	3480	2440	28670	3330	306	122	1040	491	2000	852	67651
1966	800	4420	2710	79960	27540	4450	1230	3140	2870	2130	271	381	129902
1967	381	344	1600	5100	6670	2610	1550	146	2810	4450	2370	4830	32861
1968	8260	5700	27050	8960	12140	8100	2840	2260	1160	650	2620	2440	82180
1969	4080	5920	10690	6300	39510	1360	241	334	325	5290	1880	4860	80790
1970	3960	11700	14660	11630	13510	6980	353	1400	7700	3870	1780	689	78252
1971	251	1890	1980	1000	1670	918	3110	9660	2950	38310	3450	43330	108519
1972	3830	1000	1130	2830	1710	1500	287	847	184	4240	5550	1470	24578
1973	5900	7920	14580	18050	13620	36440	9510	597	12180	28830	7780	3870	159277
1974	6560	3230	1550	9300	5890	10930	228	3790	24170	14600	16870	6700	103818
1975	6560	23190	6240	13820	19840	7450	4400	605	444	197	314	895	83955
MAX	8260	23190	27050	79960	39510	36440	9510	9660	38480	38310	16870	43330	159277
MIN	251	301	1130	1000	1670	462	104	122	103	74.0	230	304	21741
MEAN	3740	6642	6978	13348	13862	6564	1920	1791	7263	8779	4478	5659	81024
NO. OF MEAN	13	13	13	13	13	13	13	13	13	14	14	14	13
DISTR	4.6%	8.2%	8.6%	16.5%	17.1%	8.1%	2.4%	2.2%	9.0%	10.8%	5.5%	7.0%	100%

TRINITY RIVER BASIN
08057410 Trinity River below Dallas, Texas

LOCATION: Lat. 32°42'27", long 96°44'08", Dallas County, at the bridge on South Loop Highway 12, 1.0 mi (1.6 km) downstream from White Rock Creek, 1.5 mi (2.4 km) upstream from Five-mile Creek, and 6.4 mi (10.3 km) southeast of the Dallas County Courthouse.

DRAINAGE AREA: 6,278 mi² (16,260 km²).

PERIOD OF RECORD: November 1956 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 365.89 ft (111.523 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 20 years, 1,342,960 ac-ft/yr (1,655.9 hm³/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 86,700 ft³/s (1,860 m³/s) May 27, 1957 (gage height, 32.02 ft or 9.760 m); minimum daily, 131 ft³/s (3.71 m³/s) Dec. 9, 1956.

Flood of May 25, 1908 reached a stage of 41.1 ft (12.53 m), from information by the Corps of Engineers, and is the highest since that time.

REMARKS: Records good. The flow is largely regulated by reservoirs above Dallas and White Rock Lake (capacity, 12,500 ac-ft or 15.4 hm³). The Cities of Fort Worth and Dallas divert water for municipal use and return sewage effluent above the station. The low flows are largely maintained by sewage effluent.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	-	13720	14010	-
1957	10960	14740	21020	381400	954100	806900	359000	228500	36900	29200	272100	69120	3183940
1958	90410	53420	177500	242900	650900	274800	107800	21860	35060	27860	17370	17910	1717790
1959	17550	27830	19450	22200	27120	45120	25500	14030	15420	310700	30760	69830	625510
1960	259200	76900	44050	32470	52840	18830	29540	31200	17470	23940	17940	42910	647290
1961	62690	70230	109600	46370	26540	88270	36100	22170	25360	24730	25090	31590	588740
1962	22150	27940	21450	74580	29000	40850	103800	76140	447500	237500	64380	155100	1300390
1963	31700	19230	21000	71220	129000	31110	26970	22940	20680	16450	15150	16170	421620
1964	21560	17830	44310	43210	37580	22020	20270	24960	211100	97340	215000	281700	1036880
1965	114100	340700	67940	48140	390400	99320	30860	28680	42360	30230	34650	31940	1279320
1966	26750	98750	45430	282200	662300	379200	191200	43350	46180	53120	22040	24430	1874950
1967	20860	20980	26100	58960	46770	156400	38930	23870	44540	45650	29710	38410	551180
1968	79000	51140	365100	325600	304000	197600	48060	37140	32570	34990	41860	34350	1551410
1969	38340	68500	265700	275700	653600	253600	55260	33800	45110	64760	39160	57040	1850570
1970	63070	110900	432000	217400	333700	120500	28700	36340	85180	78030	20070	21270	1547160
1971	24320	27380	38330	41330	37500	30310	42410	56320	32450	230200	56790	499200	1116540
1972	276600	30950	30000	50360	50550	30530	25460	28070	28910	50320	48400	28990	679140
1973	60780	73300	132700	198800	274100	375300	147300	111300	94090	290500	144000	63960	1966130
1974	68380	42170	33590	62510	123600	102800	29030	51520	112100	80070	600800	382100	1688670
1975	104500	483900	166400	312300	242000	444400	127000	58200	27510	22810	23700	30730	2043450
MAX	276600	483900	432000	381400	954100	806900	359000	228500	447500	310700	600800	499200	3183940
MIN	10960	14740	19450	22200	26540	18830	20270	14030	15420	16450	13720	14010	421620
MEAN	74364	87199	109562	146716	264505	185151	77536	50022	73710	92021	86635	95538	1342960
NO.	19	19	19	19	19	19	19	19	19	19	20	20	19
DISTR OF MEAN	5.5%	6.5%	8.2%	10.9%	19.7%	13.8%	5.8%	3.7%	5.5%	6.9%	6.5%	7.1%	100%

TRINITY RIVER BASIN

08057445 Prairie Creek at U.S. Highway 175 at Dallas, Texas

LOCATION: Lat 32°42'17", long 96°40'11", Dallas County, at the bridge on U.S. Highway 175, 3.4 mi (5.5 km) upstream from the mouth, and 9.0 mi (14.5 km) southeast of the Dallas City Hall.

DRAINAGE AREA: 9.03 mi² (23.39 km²).

PERIOD OF RECORD: October to December 1975.

GAGE: Water-stage recorder. Datum of gage is 390.00 ft (118.872 m) above mean sea level, datum of 1929.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	-	-	-	-	0	74.0	122	-
MAX	-	-	-	-	-	-	-	-	-	0	74.0	122	-
MIN	-	-	-	-	-	-	-	-	-	0	74.0	122	-
MEAN	-	-	-	-	-	-	-	-	-	0	74.0	122	196
NO.	0	0	0	0	0	0	0	0	0	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	37.8%	62.2%	100%

TRINITY RIVER BASIN

08057450 Tenmile Creek at State Highway 342 at Lancaster, Texas

LOCATION: Lat 32°34'42", long 96°45'21", Dallas County, at the bridge on State Highway 342, 0.1 mi (0.2 km) downstream from the Missouri, Kansas, and Texas Railroad Co. bridge, 0.5 mi (0.8 km) downstream from Deep Branch, 1.0 mi (1.6 km) south of Lancaster, and 14.1 mi (22.7 km) upstream from the mouth.

DRAINAGE AREA: 52.8 mi² (136.8 km²).

PERIOD OF RECORD: October 1969 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 7 years, 28,245 ac-ft/yr (34.8 hm³/yr).

EXTREMES: Period of record (1969-75): Maximum discharge 12,900 ft³/s (365 m³/s) Sept. 27, 1973 (elevation, 466.00 ft or 142.037 m, from floodmarks); no flow at times.

Maximum elevation since 1942, 468.4 ft (142.77 m) June 1, 1964 (discharge not determined), from information by the Corps of Engineers.

REMARKS: Records good. The flow is slightly regulated by numerous small stock ponds above the station. The low flows are partly sustained by effluent from the municipalities of Duncanville and De Soto.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	-	-	-	-	-	-	-	-	-	855	328	853	-
1970	1270	4390	6560	5680	2040	749	195	179	847	1740	606	355	24611
1971	240	340	307	702	627	60.0	120	216	61.0	10870	1500	12810	27853
1972	3380	1060	655	677	549	174	16.0	1.00	37.0	650	608	440	8247
1973	2310	2650	5710	7450	2530	11660	3770	813	11700	9620	3440	2120	63773
1974	5730	2100	1350	932	1410	1050	60.0	509	1340	4460	3820	1990	24751
1975	1990	8150	2250	4070	3880	1980	2880	557	180	82.0	149	249	26417
MAX	5730	8150	6560	7450	3880	11660	3770	813	11700	10870	3820	12810	63773
MIN	240	340	307	677	549	60.0	16.0	1.00	37.0	62.0	149	249	8247
MEAN	2487	3115	2805	3252	1839	2612	1174	379	2361	4040	1493	2688	28245
NO.	6	6	6	6	6	6	6	6	6	7	7	7	6
DISTR OF MEAN	8.8%	11.0%	9.9%	11.5%	6.5%	9.2%	4.2%	1.3%	8.4%	14.3%	5.3%	9.5%	100%

TRINITY RIVER BASIN

08057500 Honey Creek Subwatershed No. 11 near McKinney, Texas

LOCATION: Lat 33°18'12", long 96°41'22". Collin County, near the center of the dam on an unnamed tributary of Honey Creek, 1.5 mi (2.4 km) west of the bridge on Farm Road 543, and 8.4 mi (13.5 km) northwest of McKinney.

DRAINAGE AREA: 2.14 mi² (5.54 km²).

PERIOD OF RECORD: September 1952 to September 1973.

GAGE: Water-stage recorder and concrete drop inlet. Datum of gage is 629.00 ft (191.72 m) above mean sea level.

AVERAGE INFLOW: 21 years, 780 ac-ft/yr (1.0 hm³/yr).

EXTREMES: Period of record (1952-73): Maximum inflow, 3,360 ft³/s (95.2 m³/s), average for 5-minute interval, Apr. 30, 1966, computed from the outflow and the change in pool contents and adjusted for rainfall on the pool surface during times of peak inflow; no inflow for many days each year.

REMARKS: Records good. The pool is formed by a rolled earthfill dam, 1,303 ft (397 m) long, with an emergency spillway located at the right end of the dam. The dam was completed on Feb. 9, 1952 but no appreciable storage began until April 1952. The first outflow occurred on Apr. 21, 1957. The outlet structure consists of an uncontrolled 2.5-foot (0.8-m) square concrete drop-inlet structure that is connected to a 12-inch (305-millimeter) concrete outlet pipe. The emergency spillway crest is at gage height 26.8 ft (8.2 m); the crest of the drop-inlet structure is at gage height 14.84 ft (4.52 m); and the invert at the bottom of the outlet pipe is at gage height 4.8 ft (1.5 m). There is also an 8-inch (203-millimeter) controlled outlet pipe connected to the drop inlet at gage height 4.8 ft (1.5 m). The pool capacity is 1,170 ac-ft (1.44 hm³) at the crest of the emergency spillway, 428 ac-ft (0.528 hm³) at the crest of the drop inlet, and 123 ac-ft (0.152 hm³) at the controlled outlet pipe.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	0	0	0	0	-
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	133	1336	449	352	0	0	0	117	63.0	2470
1958	131	47.2	137	120	454	256	0	0	0	0	0	0	1145
1959	0	0	0	0	0	0	0	0	0	1.60	.90	12.4	14.9
1960	66.6	85.8	37.5	10.3	15.1	2.90	33.6	60.8	6.00	5.80	8.10	68.5	401
1961	145	139	115	92.3	220	14.3	5.10	0	4.30	17.7	9.6	1.04	866
1962	54.0	52.7	72.6	211	26.8	67.5	5.60	.40	41.5	7.00	46.2	92.6	678
1963	30.8	22.3	15.6	61.9	239	19.0	2.50	1.50	7.00	0	.20	.10	400
1964	.10	0	5.10	83.7	61.8	10.8	.10	9.00	392	30.3	526	70.5	1189
1965	102	295	57.3	26.6	150	37.9	.20	2.50	.70	.60	3.20	13.0	689
1966	2.10	20.8	4.80	992	239	12.7	.20	2.20	9.1	1.50	7.20	5.80	1297
1967	5.20	3.60	11.8	42.2	177	14.4	4.40	30.3	85.3	8.80	46.0	1.05	534
1968	198	116	535	285	267	40.3	8.80	7.20	30.8	8.30	34.5	80.8	1612
1969	109	194	252	139	680	71.4	1.70	5.00	2.80	5.30	3.30	21.9	1485
1970	22.4	233	288	375	279	110	.10	1.60	.30	1.40	.10	4.80	1316
1971	3.90	4.80	.80	4.20	2.50	2.90	1.80	5.60	.40	105	39.0	6.84	855
1972	77.1	38.1	40.4	22.8	16.7	.20	8.50	1.70	3.20	13.0	22.9	17.8	262
1973	54.0	96.3	210	295	108	269	27.8	2.00	147	-	-	-	-
MAX	198	295	535	992	1336	449	352	60.8	392	105	526	6.84	2470
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	47.7	64.2	84.9	138	203	65.6	21.5	6.18	33.2	9.8	41.2	65.0	780
NO.	21	21	21	21	21	21	21	21	22	21	21	21	20
DISTR OF MEAN	6.1%	8.2%	10.9%	17.7%	26.1%	8.4%	2.8%	.8%	4.3%	1.3%	5.3%	8.3%	100%

TRINITY RIVER BASIN

08058000 Honey Creek Subwatershed No. 12 near McKinney, Texas

LOCATION: Lat 33°18'20", long 96°40'12", Collin County, near the center of the dam on an unnamed tributary of Honey Creek, 0.5 mi (0.8 km) west of the bridge on Farm Road 543, and 7.8 mi (12.6 km) northwest of McKinney.

DRAINAGE AREA: 1.26 mi² (3.26 km²).

PERIOD OF RECORD: September 1952 to December 1975.

GAGE: Water-stage recorder and concrete drop inlet. Datum of gage is 623.00 ft (189.890 m) above mean sea level.

AVERAGE INFLOW: 24 years, 498 ac-ft/yr (0.6 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum inflow, 1,490 ft³/s (42.2 m³/s), average for 15-minute interval, May 21, 1957, computed from the change in the pool contents and adjusted for rainfall on the pool surface during the time of peak inflow; no inflow for many days each year.

REMARKS: Records fair. The pool is formed by a rolled earthfill dam, 1,253 ft (382 m) long, with a spillway located at the right end of the dam. The dam was completed on Jan. 11, 1952 but no appreciable storage began until April 1952. The first outflow occurred on May 12, 1954. The outlet structure consists of an uncontrolled 30-inch (762-millimeter) square concrete drop-inlet structure that is connected to a 12-inch (305-millimeter) concrete outlet pipe. The spillway crest is at gage height 27.0 ft (8.23 m); the crest of the drop-inlet structure is at gage height 14.89 ft (4.509 m); and the invert at the bottom of the outlet pipe is at gage height 5.0 ft (1.52 m). There is also an 8-inch (203-millimeter) controlled outlet pipe connected to the drop inlet at gage height 5.0 ft (1.52 m). The pool capacity is 477 ac-ft (0.588 hm³) at the spillway crest, 104 ac-ft (0.128 hm³) at the crest of the drop inlet, and zero acre-feet at the controlled outlet pipe.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	0	0	0	0	-
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	27.0	37.5	0	0	0	7.40	0	0	71.9
1955	12.9	60.5	48.0	39.3	22.8	0	0	0	0	0	0	0	183
1956	0	15.6	0	0	25.8	0	0	0	0	0	0	0	41.4
1957	0	0	0	226	1050	314	0	0	0	0	108	47.3	1745
1958	64.6	30.0	79.3	100	360	20	0	0	0	0	0	0	634
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	39.4	38.0	12.9	0	11.1	17.2	0	0	0	4.20	2.90	49.7	175
1961	65.0	56.3	47.9	44.0	122	7.40	3.50	20	12.0	54.9	11.9	57.0	482
1962	21.5	17.2	37.7	113	18.1	49.0	4.90	1.20	77.4	4.30	49.6	31.8	426
1963	9.3	5.00	8.20	33.1	170	11.9	2.20	0	70	70	70	2.20	244
1964	2.60	1.50	9.2	67.3	35.3	4.60	40	4.10	221	8.80	247	26.5	628
1965	37.3	145	20.2	8.70	151	52.1	90	80	6.30	70	5.90	4.10	433
1966	4.30	29.4	6.00	632	51.4	5.60	2.40	18.9	25.4	3.70	2.80	4.40	786
1967	4.50	1.80	8.70	13.0	154	2.00	2.90	2.40	66.5	4.90	7.40	37.4	305
1968	75.8	51.8	268	167	213	41.0	26.6	2.70	51.3	27.5	31.6	35.7	992
1969	54.5	97.2	130	51.0	292	36.0	1.90	2.30	1.50	9.5	4.00	50.1	730
1970	15.6	127	133	212	56.1	52.4	0	2.20	10	1.40	.60	1.60	602
1971	2.20	7.30	2.70	5.30	2.80	0	3.50	2.70	4.80	162	23.3	389	606
1972	14.4	11.6	33.0	9.7	6.50	1.10	20	70	2.60	5.20	8.60	6.40	100.0
1973	24.7	46.6	135	182	101	107	21.1	6.20	139	153	66.6	27.6	1010
1974	10.6	17.4	14.2	114	24.2	157	2.70	5.20	69.6	213	126	57.8	812
1975	67.9	172	25.7	91.5	85.8	112	7.30	90	70	0	90	2.60	567
MAX	75.8	172	268	632	1050	314	26.6	18.9	221	213	247	389	1745
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	22.9	40.5	44.3	91.7	130	43.8	3.50	2.20	28.3	27.5	29.1	34.6	498
NO.	23	23	23	23	23	23	23	23	24	24	24	24	23
DISTR OF MEAN	4.6%	8.1%	6.9%	18.4%	26.0%	8.8%	.7%	.4%	5.7%	5.5%	5.8%	6.9%	100%

TRINITY RIVER BASIN
08058500 Honey Creek near McKinney, Texas

LOCATION: Lat 33°16'42", long 96°39'27", Collin County, at the bridge on a county road, 4.6 mi (7.2 km) downstream from Haw Branch, 5.6 mi (9.0 km) upstream from the mouth, and 6.0 mi (9.7 km) northwest of McKinney.

DRAINAGE AREA: 39.0 mi² (101 km²).

PERIOD OF RECORD: August 1951 to September 1973.

GAGE: Water-stage recorder and concrete control. Datum of gage is 563.68 ft (171.81 m) above mean sea level.

AVERAGE DISCHARGE: 23 years, 14,006 ac-ft/yr (17.3 hm³/yr).

EXTREMES: Period of record (1951-73): Maximum discharge, 7,020 ft³/s (224 m³/s) May 26, 1957, gage height, 20.29 ft (6.18 m); no flow at times each year.

Maximum stage since at least 1930, 23.0 ft (7.0 m) in spring of 1950, from information by a local resident.

REMARKS: Records good. There are several diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	-	-	-	-	7.50	0	0	1.40	4.40	-
1952	5.60	30.0	61.0	3120	1330	394	5.20	0	0	0	79.0	1.40	5165
1953	80.0	70.0	289	2610	2850	51.0	2.20	0	0	97.0	111	17.0	6177
1954	378	68.0	17.0	1040	2030	1040	0	.60	99.0	403	24.0	54.0	5154
1955	186	1270	658	457	471	173	3.40	0	0	0	0	0	3218
1956	0	695	1.40	48.0	615	0	0	0	0	0	56.0	.80	1416
1957	0	11.0	569	13250	26680	3440	395	1.80	28.0	15.0	2870	1000	48260
1958	1590	879	1840	5400	9250	919	18.0	0	42.0	0	20.0	70.0	20028
1959	59.0	65.0	86.0	98.0	31.0	343	838	.20	0	60.0	1280	875	3735
1960	1530	1170	443	163	243	251	267	128	4.00	2.20	10.0	504	4715
1961	1940	2180	1270	389	2030	109	84.0	7.50	134	298	103	913	9458
1962	414	335	831	4690	740	1590	112	22.0	3870	141	937	1060	14742
1963	311	150	270	870	3890	1170	37.0	.20	0	0	0	0	6698
1964	0	8.70	117	765	803	79.0	0	0	4960	863	8970	1390	17956
1965	1390	4750	979	446	3380	1720	67.0	1.60	212	9.1	29.0	32.0	13016
1966	35.0	457	90.0	12610	7740	454	31.0	515	383	52.0	22.0	34.0	22423
1967	42.0	40.0	253	1450	3220	2320	14.0	7.60	284	37.0	69.0	497	8234
1968	2020	1140	9840	5390	5270	747	209	26.0	374	416	1080	1140	27652
1969	1310	3840	4060	2380	12400	1950	77.0	2.90	1.30	66.0	39.0	939	27065
1970	519	4150	4950	5340	3180	1350	22.0	2.80	360	117	49.0	29.0	20069
1971	47.0	57.0	35.0	67.0	285	44.0	22.0	2.30	8.90	2820	632	13170	17190
1972	979	252	368	160	176	3.00	0	0	0	233	914	305	3390
1973	1090	1430	5900	4010	2430	4140	182	51.0	3800	-	-	-	-
MAX	2020	4750	9840	13250	26680	4140	838	515	4960	2820	8970	13170	48260
MIN	0	8.70	1.40	48.0	31.0	0	0	0	0	0	0	0	1416
MEAN	633	1048	1497	2943	4047	1013	108	33.8	633	256	786	1008	14006
NO.	22	22	22	22	22	22	22	23	23	22	22	22	21
DISTR OF MEAN	4.5%	7.5%	10.7%	21.0%	28.9%	7.2%	.8%	.2%	4.5%	1.8%	5.6%	7.2%	100%

TRINITY RIVER BASIN

08058900 East Fork Trinity River at McKinney, Texas

LOCATION: Lat 33°14'38", long 96°36'31", Collin County, at the bridge on State Highways 5 and 121, 750 ft (229 m) downstream from Honey Creek, 1.2 mi (1.9 km) upstream from the Southern-Pacific Railway Co. bridge, 1.7 mi (2.7 km) upstream from Clemons Creek, 3.3 mi (5.3 km) north of McKinney, 26.1 mi (42.0 km) upstream from Lavan Dam, and 86.5 mi (139.2 km) upstream from the mouth.

DRAINAGE AREA: 164 mi² (425 km²).

PERIOD OF RECORD: October to December 1975.

GAGE: Water-stage recorder. Datum of gage is 528.74 ft (161.160 m) above mean sea level, datum of 1929.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	-	-	-	-	1.00	11.0	74.0	-
MAX	-	-	-	-	-	-	-	-	-	1.00	11.0	74.0	-
MIN	-	-	-	-	-	-	-	-	-	1.00	11.0	74.0	-
MEAN	-	-	-	-	-	-	-	-	-	1.00	11.0	74.0	86.5
NO.	0	0	0	0	0	0	0	0	0	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	1.2%	12.8%	86.0%	100%

TRINITY RIVER BASIN

08059000 East Fork Trinity River near McKinney, Texas

LOCATION: Lat 33°12'13", long 96°36'44", Collin County, at the bridge on U.S. Highway 380, 1.2 mi (1.9 km) northeast of McKinney, 4.2 mi (6.8 km) downstream from Honey Creek, 11 mi (18 km) upstream from Wilson Creek, and 22 mi (35 km) upstream from Lavin Dam.

DRAINAGE AREA: 190 mi² (492 km²).

PERIOD OF RECORD: September 1949 to September 1975.

GAGE: Water-stage recorder. Datum of gage is 511.69 ft (155.963 m) above mean sea level, datum of 1929. Since Feb. 21, 1956, supplementary water-stage recorder on an overflow channel, 3,680 ft (1,120 m) to the left of the main channel.

AVERAGE DISCHARGE: 27 years, 84,347 ac-ft/yr (104.0 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge not determined; maximum gage height, 17.23 ft (5.251 m) June 11, 1950; maximum discharge measured, 23,900 ft³/s (677 m³/s) May 26, 1957 (gage height, 16.65 ft or 5.075 m); no flow at times.

Maximum stage since at least 1913, 21 ft (6.4 m) in April 1942, from information by local residents.

REMARKS: Records fair. The low flow is partly sustained by the sewage effluent from the U.S. Government training facility upstream from the station. There are several small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	88.0	1990	232	168	-
1950	15190	31060	4460	7370	31470	22270	2690	8600	16560	1260	552	493	141975
1951	502	3220	1390	1000	3100	42090	2060	113	79.0	67.0	56.0	63.0	53740
1952	92.0	90.0	326	10160	4370	1070	40.0	32.0	11.0	14.0	613	739	17559
1953	479	424	1670	18210	14950	313	39.0	22.0	41.0	637	1690	951	39626
1954	3060	1010	592	4710	13310	4570	40.0	12.0	92.0	2450	146	199	30191
1955	729	4040	4250	4680	3500	1740	301	15.0	116	106	8.50	12.0	19498
1956	16.0	3020	135	780	5140	44.0	14.0	13.0	9.1	29.0	20.0	89.0	9309
1957	19.0	52.0	3770	99560	104500	12660	698	51.0	532	147	23970	5110	251069
1958	8150	3140	10240	21440	49280	4430	495	31.0	1290	139	120	184	98939
1959	171	240	538	539	103	2480	2550	200	35.0	1100	2670	8650	19276
1960	12220	8340	2680	1020	1120	612	3180	568	105	228	100	5680	35853
1961	11350	9340	6870	2980	7190	533	557	26.0	1450	2790	1060	4270	48416
1962	1950	1440	2480	31870	2460	4520	574	275	27510	1030	4940	5420	84469
1963	1720	855	1200	4340	19030	3470	434	18.0	11.0	4.20	12.0	22.0	31116
1964	16.0	24.0	1010	4920	5100	928	50.0	52.0	32190	4660	35760	6070	90780
1965	5930	22530	4570	1840	15520	9240	337	50.0	986	66.0	201	229	61499
1966	299	2230	722	60850	36040	1190	169	2590	1280	348	211	314	106243
1967	376	245	1460	7200	15570	15300	311	105	4110	892	1070	3800	50439
1968	10560	6290	37190	25470	39100	9140	4420	513	2960	2210	4550	7900	150303
1969	11040	20830	19060	10330	64300	8290	690	22.0	44.0	968	303	4500	140377
1970	3410	23920	33370	37780	16910	12000	290	85.0	3430	1220	654	601	133670
1971	679	918	633	736	1730	259	101	590	1320	24880	6250	72470	110566
1972	5190	2200	1590	986	1520	64.0	1.00	0	0	1610	5860	1650	20671
1973	4990	7300	26430	20740	11730	19810	1710	796	25780	30070	21500	5650	176506
1974	4540	4100	4170	11880	8860	26390	315	1470	19580	21430	60010	9850	172595
1975	8450	31180	9690	13220	14810	21110	2160	377	32.0	-	-	-	-
MAX	15190	31180	37190	99560	104500	42090	4420	8600	32190	30070	60010	72470	251069
MIN	16.0	24.0	135	539	103	44.0	1.00	0	0	4.20	8.50	12.0	9309
MEAN	4274	7232	6950	15562	18874	8636	932	639	5172	3859	6637	5580	84347
NO.	26	26	26	26	26	26	26	26	27	26	26	26	25
DISTR OF MEAN	5.1%	8.6%	8.2%	18.4%	22.4%	10.2%	1.1%	.8%	6.1%	4.6%	7.9%	6.6%	100%

TRINITY RIVER BASIN

08059400 Sister Grove Creek near Blue Ridge, Texas

LOCATION: Lat 33°17'40", long 96°28'58", Collin County, at the bridge on Farm Road 545, 3.5 mi (5.6 km) upstream from Hatler Branch, 4.8 mi (7.7 km) west of Blue Ridge, 7.4 mi (11.8 km) upstream from Stiff Creek, 14.7 mi (23.7 km) upstream from the mouth, and 24.7 mi (39.7 km) upstream from Lavon Dam.

DRAINAGE AREA: 83.1 mi² (215.2 km²).

PERIOD OF RECORD: July to December 1975.

GAGE: Water-stage recorder. Datum of gage is 536.29 ft (163.461 m) above mean sea level, datum of 1929.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	-	871	82.0	23.0	2.40	63.0	142	-
MAX	-	-	-	-	-	-	871	82.0	23.0	2.40	63.0	142	-
MIN	-	-	-	-	-	-	871	82.0	23.0	2.40	63.0	142	-
MEAN	-	-	-	-	-	-	871	82.0	23.0	2.40	63.0	142	1183
NO.	0	0	0	0	0	0	1	1	1	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	73.6%	6.9%	1.9%	.2%	5.3%	12.0%	100%

TRINITY RIVER BASIN

08059500 Sister Grove Creek near Princeton, Texas

LOCATION: Lat 33°11'35", long 96°28'32", Collin County, at the bridge on Farm Road 1377, 1.4 mi (2.3 km) northeast of Princeton, 2.3 mi (3.7 km) downstream from Stiff Creek, 5 mi (8 km) upstream from the mouth, and 15 mi (24 km) upstream from Lavon Dam.

DRAINAGE AREA: 113 mi² (293 km²).

PERIOD OF RECORD: September 1949 to January 1975.

GAGE: Water-stage recorder. Datum of gage is 487.52 ft (148.596 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 27 years, 51,764 ac-ft/yr (63.8 hmr³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 9,080 ft³/s (257 m³/s) Apr. 26, 1957 (gage height, 16.28 ft or 4.962 m); maximum gage height, 16.55 ft (5.044 m) Apr. 30, 1966; no flow at times.

Maximum stage since at least 1865, 22 ft (6.7 m) in July 1913, from information by local residents.

REMARKS: Records fair. The station was discontinued Jan. 31, 1975 as the result of backwater from enlarged Lavon Lake.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	-	-	0	2160	534	355	-
1950	10000	19260	3370	7070	23440	5540	3650	4770	10450	1530	607	512	90199
1951	446	2500	1360	791	2180	27270	1870	94.0	0	0	0	0	36511
1952	0	69.0	245	6420	3010	533	0	0	0	0	249	379	10905
1953	409	362	1660	14580	12380	995	158	0	40.0	149	1040	946	32719
1954	2280	1650	748	2860	8110	2090	48.0	0	0	1010	202	148	19146
1955	328	1660	2830	2510	1340	293	748	0	0	126	0	0	9855
1956	0	2080	427	714	3670	8.30	0	0	0	0	20.0	0	6919
1957	0	0	1790	36890	57720	13870	538	14.0	356	110	17260	57.0	134338
1958	8540	4340	8210	11340	29040	2510	599	155	1860	93.0	16.0	69.0	66772
1959	91.0	215	308	222	68.0	1880	389	51.0	67.0	1620	1970	9160	16121
1960	9610	6160	2910	1350	598	317	428	355	275	253	109	4780	27145
1961	7610	4580	5580	2980	2810	831	580	3.40	279	1590	1340	3660	31843
1962	2090	1730	1950	6620	2070	2480	839	210	20200	1500	3200	4210	47099
1963	1380	776	952	2710	14430	3160	966	38.6	0	0	0	0	24412
1964	0	26.0	425	2750	5090	2110	86.0	0	18930	5470	17180	3880	55947
1965	3660	13620	3750	1570	7130	5330	461	8.70	376	42.0	335	329	36612
1966	149	1570	619	30450	26410	767	421	595	800	131	99.0	1.97	62208
1967	205	135	1030	3730	5860	11130	397	5.60	6790	1470	1350	3570	35673
1968	7370	6480	26120	21170	27520	5310	3810	1350	2630	2500	2930	5550	112740
1969	8160	12310	12150	6700	39800	3390	305	.50	0	364	265	1740	65185
1970	2320	10420	17670	16920	5940	2610	144	.10	117	151	102	1.93	56587
1971	225	349	267	256	263	28.0	131	43.0	365	8740	2410	42330	55407
1972	3780	1540	1450	580	499	17.0	0	0	0	67.0	1860	840	10633
1973	3440	6800	13890	12510	6960	6560	1250	414	17480	31640	19100	5040	125084
1974	3690	2550	2350	11790	4090	13770	186	1010	23770	9490	30580	8780	112058
1975	6730	-	-	-	-	-	-	-	-	-	-	-	-
MAX	10000	19260	26120	36890	57720	27270	3810	4770	23770	31640	30580	42330	134338
MIN	0	0	245	222	68.0	8.30	0	0	0	0	0	0	6919
MEAN	3174	4048	4486	8219	11617	4512	720	365	4030	2700	3952	3941	51764
NO.	26	25	25	25	25	25	25	25	26	26	26	26	25
DISTR OF MEAN	6.1%	7.8%	8.7%	15.9%	22.4%	8.7%	1.4%	.7%	7.8%	5.2%	7.6%	7.6%	100%

TRINITY RIVER BASIN

0806000 East Fork Trinity River above Pilot Grove Creek near Lavon, Texas

LOCATION: Lat 33°D1'23", long 96°28'32", Collin County, at the bridge on State Highway 78, 160 ft (48.7 m) downstream from the St. Louis-Southwestern Railway Co. bridge, 3,500 ft (1,066.8 m) downstream from Lavon Dam, and 2.5 mi (4.0 km) west of Lavon.

DRAINAGE AREA: 324 mi² (839.2 km²).

PERIOD OF RECORD: March 1949 to September 1953.

GAGE: Water-stage recorder. Datum of gage is 429.58 ft (130.9 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 5 years, 44,712 ac-ft/yr (55.1 hm³/yr).

EXTREMES: Period of record (1949-53): Maximum gage height, 16.17 ft (4.9 m) May 2, 1950; no flow at times.

Maximum stage known since at least 1894, 22.3 ft (6.8 m) in 1913 and in April 1942, from information by the St. Louis-Southwestern Railway Co. and local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	18710	11970	15120	6490	50.0	0	0	-	1290	1170	-
1950	-	-	11740	14690	-	-	-	-	-	3810	1580	1620	-
1951	1810	-	6050	5360	12230	-	-	154	42.0	0	35.0	56.0	-
1952	33.0	103	569	-	-	3230	17.0	0	0	0	2560	4460	-
1953	2700	1180	12050	-	-	1830	0	0	0	-	-	-	-
MAX	2700	1180	18710	14690	15120	6490	50.0	154	42.0	3810	2560	4460	-
MIN	33.0	103	569	5360	12230	1830	0	0	0	0	35.0	56.0	-
MEAN	1514	642	9824	10673	13675	3850	22.3	38.5	10.5	1270	1366	1827	44712
NO.	3	2	5	3	2	3	3	4	4	3	4	4	0
Q15TR OF MEAN	3.4%	1.4%	22.0%	23.9%	30.6%	8.6%	.0%	.1%	.0%	2.8%	3.1%	4.1%	100%

TRINITY RIVER BASIN

08060500 Lavon Lake near Lavon, Texas

LOCATION: Lat 33°01'54", Long 96°28'56", Collin County, in the right abutment of the spillway in the dam on the East Fork Trinity River, 3,850 ft (1,170 m) upstream from the St. Louis-Southwestern Railway Co. bridge, 4,000 ft (1,200 m) upstream from the bridge on State Highway 78, and 2.9 mi (4.7 km) west of Lavon.

DRAINAGE AREA: 770 mi² (1,990 km²).

PERIOD OF RECORD: October 1953 to December 1975. Prior to October 1970, published as "Lavon Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 20, 1954, nonrecording gage in the approach channel at the same datum.

EXTREMES: Period of record (1953-76): Maximum contents, 462,800 ac-ft (570.6 hm³) May 26, 1967 (elevation, 491.90 ft or 148.831 m); minimum contents since the lake first filled in 1957, 85,850 ac-ft (105.8 hm³) October 18, 1972 (elevation, 466.02 ft or 142.04 m).

REMARKS: The lake is formed by a rolled earthfill dam 12,860 ft (5,749 m) long, including a 568-foot (173-m) gated spillway with twelve 40.0-by-28.0-foot (12.2-by-8.5-m) tainter gates. The original dam was 9,499 ft (2,895 m) long but the conservation capacity was increased to the present size in December 1975. The capacity of the enlarged lake is 456,500 ac-ft (562.9 hm³). Deliberate impoundment began on Sept. 14, 1953 and the dam was completed in October 1953. The low-flow outlets consist of five 36-inch diameter (914-millimeter) controlled sluice gates. The lake was designed for flood control and water conservation. Water for municipal supply can be released down to elevation 453.0 ft (138.07 m). The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	-	-	-	-	-	-	-	-	-	1540	5570	9380
1954	30060	35250	35950	56430	117000	121700	102300	96680	93410	100500	100900	99910
1955	101500	111800	129000	137900	140900	140200	135800	129600	129100	124800	121700	120100
1956	119900	131200	128500	128900	140900	133300	125000	117800	111400	108200	108400	106400
1957	105200	104100	113300	380700	281500	291700	210900	143600	140700	139800	192400	155800
1958	142600	140900	160200	239600	288800	257800	192500	141000	154700	137600	135400	135200
1959	134800	138800	140300	133500	129900	136100	151700	137000	131700	137100	135700	175600
1960	166700	138800	133600	139400	135100	132300	141600	138900	132800	131200	127600	145700
1961	139400	141000	169200	137500	132600	133900	131500	122800	123000	126000	133300	144400
1962	144900	150800	146500	188900	143600	158200	142900	136600	156200	148300	166700	144500
1963	144500	144700	143200	162700	202900	143100	139400	128400	120600	113100	109800	107500
1964	106700	104800	110100	130800	170300	142300	129400	124000	288800	176300	243700	144900
1965	143600	228500	145200	143500	215900	143100	133500	123400	122000	117100	116500	114900
1966	114000	126300	127500	386800	245200	160800	141500	140100	142300	138600	134100	132400
1967	130600	128500	131100	154900	184100	157000	137700	126800	141800	155100	143700	147400
1968	261400	146200	275900	271200	249400	191400	173700	145400	155000	157300	163300	146500
1969	196500	178500	207600	166800	294800	156000	135300	124700	118300	115900	111900	120300
1970	127000	191600	203000	237000	159600	148400	133900	125300	130100	135700	131800	129100
1971	126800	128000	123900	119500	116600	106500	98650	94360	92310	175900	144000	295300
1972	144000	142200	141200	137100	132900	124000	111200	99820	91380	92480	107300	111200
1973	131000	143100	145000	218100	150800	159600	146100	133500	200600	168400	160700	142200
1974	143800	149300	150900	210200	184500	189500	173800	157500	217000	206500	311100	248000
1975	197100	292400	226000	203600	215400	200500	153600	134400	123300	114300	108700	96700
MAX	197100	292400	275900	386800	294800	291700	210900	157500	288800	206500	311100	295300
MIN	30060	35250	35950	56430	116600	106500	98650	94360	91380	1540	5570	9380
MEAN	134185	145307	149416	185692	183305	160336	142816	128257	141659	131370	139751	137973
NO.	22	22	22	22	22	22	22	22	22	23	23	23
DISTR OF MEAN	7.5%	8.2%	8.4%	10.4%	10.3%	9.0%	8.0%	7.2%	8.0%	7.4%	7.9%	7.8%

TRINITY RIVER BASIN

08061000 East Fork Trinity River near Lavon, Texas

LOCATION: Lat 33°01'25", long 96°28'31", Collin County, at the St. Louis-Southwestern Railway Lines bridge, 150 ft (46 m) upstream from the bridge on State Highway 78, 3,550 ft (1,082 m) downstream from Lavon Dam, and 2.5 mi (4.0 km) west of Lavon.

DRAINAGE AREA: 773 mi² (2,002 km²).

PERIOD OF RECORD: October 1953 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 429.58 ft (130.936 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1969, at site 150 ft (46 m) downstream at same datum.

AVERAGE DISCHARGE: 23 years, 287,323 ac-ft/yr (354.3 hm³/yr).

EXTREMES: Period of record (1953-75): Maximum discharge, 39,000 ft³/s (1,100 m³/s) May 26, 27, 1957, from records of released flow from Lavon Lake furnished by the Corps of Engineers; maximum gage height, 17.34 ft (5.285 m) May 26, 1957; no flow at times each year.

Maximum stage since at least 1894, 22.3 ft (6.80 m) in 1913 and in April 1942, from information by the St. Louis-Southwestern Railway Co. and local residents.

REMARKS: Records good. The flow is regulated by Lavon Lake (station 08060500).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	-	-	-	-	-	-	-	-	-	0	0	0	-
1954	.10	0	0	.20	1.40	690	11060	1.60	0	0	0	0	11753
1955	0	4.51	3.59	5.75	25.70	629	338	546	212	148	308	47.0	6183
1956	566	570	275	346	12800	574	552	515	89.0	318	219	18.0	16842
1957	217	4.56	4.32	9620	475600	38920	67560	59530	974	1360	31380	55720	741771
1958	43050	9030	47550	39300	123300	45140	61040	44870	7010	11140	225	32.0	431687
1959	2.40	1830	5920	4590	216	125	2340	7110	.60	3160	7030	17590	49914
1960	59960	61190	16290	876	16040	0	0	856	770	16.0	12.0	41910	197920
1961	60320	31860	16010	37990	17520	19.0	4.40	.80	5.40	27.0	80.0	16000	179837
1962	8580	5590	10130	17190	47980	15130	13470	7.70	57370	14190	5420	35870	230928
1963	4090	1540	3950	161	45900	61170	3.20	6.00	337	1.60	4.40	11.0	117174
1964	2.60	2.80	23.0	5.60	71.0	37360	0	0	8170	123400	56490	113100	338625
1965	28310	26620	86700	7310	22090	84060	31.0	0	46.0	15.0	4.90	10.0	255199
1966	15.0	7.20	4.50	1870	199100	83810	17090	1.40	12.0	22.0	3.90	13.0	301949
1967	8.80	4.10	1.90	5270	17190	84790	13610	0	18650	1580	20160	25350	186615
1968	37200	46360	47740	104300	167100	76590	44620	23070	1350	6.80	9500	45730	603567
1969	11440	97020	73450	90180	117700	168800	8120	77.0	90.0	8.60	6.00	24.0	566916
1970	9.2	11970	114300	65850	125000	34450	2160	0	1.10	17.0	3.60	32.0	353793
1971	55.0	21.0	4.80	0	0	0	0	0	0	16200	36530	135800	188611
1972	164600	3710	0	0	0	12.0	0	1.00	0	1.10	10.0	6.60	188341
1973	14.0	27490	78500	21830	95990	48060	11050	272	208	80720	73290	53630	491054
1974	17690	4630	9310	15590	47520	54600	3040	11650	18860	42180	82350	121000	428420
1975	93370	53900	93130	73730	55790	89030	42350	8350	0	0	0	0	509650
MAX	164600	97020	114300	104300	475600	168800	67560	59530	57370	123400	82350	135800	741771
MIN	0	0	0	0	0	0	0	0	0	0	0	0	6183
MEAN	24068	17466	27458	22572	72249	41998	13565	7130	5189	12805	14045	28778	287323
NO.	22	22	22	22	22	22	22	22	22	23	23	23	22
DISTR OF MEAN	8.4%	6.1%	9.6%	7.9%	25.1%	14.6%	4.7%	2.5%	1.8%	4.5%	4.9%	10.0%	100%

TRINITY RIVER BASIN

08061500 East Fork Trinity River near Rockwall, Texas

LOCATION: Lat 32°55'26", long 96°30'20", Rockwall County, at the bridge on State Farm Highway 7, 3 mi (4.8 km) southeast of Rockwall, and 8 mi (12.8 km) upstream from Muddy Creek.

DRAINAGE AREA: 840 mi² (2,175.6 km²).

PERIOD OF RECORD: October 1923 to September 1954.

GAGE: Chain gage. Datum of gage is 404.32 ft (123.2 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 32 years, 345,823 ac-ft/yr (426.4 hm³/yr).

EXTREMES: Period of record (1923-54): Maximum discharge, 64,800 ft³/s (1,835.1 m³/s) June 16, 1935 (gage height, 23.39 ft or 7.1 m); maximum gage height, 24.82 ft (7.6 m) April 20, 1942 while the levees were breaking; no flow at times.

Maximum stage known since construction of the levees in 1820, that of April 20, 1942.

REMARKS: Records good. The flow is largely regulated by Lavon Reservoir (station 08060500) since 1953.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	4240	1790	60300	-
1924	13400	11300	74600	32300	41300	9550	1000	0	0	0	0	0	183450
1925	710	1290	590	7950	33000	1420	9200	0	0	1200	640	40	45726
1926	6050	569	11300	40600	48800	68700	198000	11200	3370	11400	9690	53100	462779
1927	36500	36000	88500	125000	32300	25300	85900	1980	957	21100	2040	16800	474377
1928	8420	38600	11400	127000	26500	26900	10200	922	290	420	3140	72600	325753
1929	55800	42400	36200	27500	174000	28400	2520	290	930	411	1710	1320	370383
1930	812	3490	1960	11400	114000	2740	1320	0	0	501	572	15700	152495
1931	1350	10800	34100	17700	14300	16000	114	499	159	1420	4080	2640	99087
1932	253000	129000	19000	5680	19500	6780	60300	14500	6430	2120	344	45100	561754
1933	56500	16600	77500	21100	56100	13200	455	2210	2210	264	2500	1540	250179
1934	11600	16800	49700	43900	28700	2620	902	0	905	0	1690	610	155090
1935	14610	6440	6840	20800	186300	206200	3590	940	4970	7910	25620	38970	521584
1936	7710	5530	3740	1300	6480	1790	154	0	11580	30470	11190	19780	99724
1937	76300	12350	34460	17160	4660	2090	300	10450	1160	3580	6280	39360	207680
1938	132400	195800	106600	81990	6920	18090	261	130	0	0	0	0	542274
1939	0	2560	11960	124700	4970	16770	517	340	0	338	40	440	161893
1940	980	1540	865	100900	82390	52940	53440	1810	254	0	18000	107500	419737
1941	33590	42290	34250	87690	86310	214000	20660	9390	903	4210	8560	16730	560583
1942	5380	5140	7710	386900	71640	75880	3250	712	5620	7100	16340	16730	604602
1943	9590	7540	83860	47260	62620	69050	1940	5040	0	271	320	164	282332
1944	666	12170	51080	19100	127900	8760	418	0	742	700	2260	22270	245436
1945	23350	204200	228600	94900	15140	131500	53200	1030	3820	57630	11250	4180	828800
1946	28580	113400	50140	17650	184000	117600	1890	1940	1450	514	279900	144500	941564
1947	31390	8130	30310	32360	47970	27920	982	9410	1710	1090	4920	69710	265902
1948	43460	84600	51560	7430	86290	8300	9900	103	0	0	0	130	291656
1949	104000	85350	58000	25870	56580	28940	637	490	0	24660	2280	1710	388076
1950	73680	182800	18640	21710	165000	42810	42970	13970	80310	4370	1630	1620	649510
1951	1710	23730	6380	5720	14470	191500	13740	130	80	0	0	180	257406
1952	390	180	496	45600	31470	4740	400	0	0	0	1710	4650	88889
1953	2560	1220	12900	73950	99370	1510	0	0	0	0	132	239	191881
1954	3050	101	250	5550	3560	584	10420	118	0	-	-	-	-
MAX	253000	204200	228600	386900	186300	214000	198000	14500	80310	57630	279900	144500	941564
MIN	0	101	250	1300	3560	584	0	0	0	0	0	0	45726
MEAN	33473	41997	38804	54126	62340	45890	18642	2600	4064	5965	13362	24560	345823
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30
DISTR OF MEAN	9.7%	12.1%	11.2%	15.7%	18.0%	13.3%	5.4%	.8%	1.2%	1.7%	3.9%	7.1%	100%

TRINITY RIVER BASIN

08061540 Rowlett Creek near Sachse, Texas

LOCATION: Lat. 32°57'35", long 96°38'51", Dallas County, at the bridge on State Highway 78, 150 ft (46 m) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 250 ft (76 m) downstream from Spring Creek, and 1.5 mi (2.4 km) southwest of Sachse.

DRAINAGE AREA: 120 mi² (311 km²).

PERIOD OF RECORD: March 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 450.00 ft (137.160 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 69,282 ac-ft/yr (85.4 km³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 24,700 ft³/s (700 m³/s) Dec. 9, 1971 (gage height, 28.35 ft or 8.641 m); no flow Aug. 24 to Sept. 2, 1969.

Maximum stage since at least 1942, 35.4 ft (10.79 m) in 1942, from information by the Texas Highway Department.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	25910	9050	9540	7640	2600	637	2240	597	1930	2160	-
1969	5580	6380	13690	6660	33900	2640	369	135	223	2540	1130	3170	76417
1970	2120	10600	15050	15940	8500	8120	751	562	2500	2270	1140	1140	68693
1971	723	932	732	1920	1730	274	1090	3040	1060	24790	3700	49520	89511
1972	3700	1970	1740	1410	1150	724	118	110	275	2870	4140	2090	20297
1973	4550	6370	8430	13530	8890	17890	3380	915	8280	15090	6200	3670	97195
1974	3580	2790	2220	7510	2930	4440	333	731	10730	11900	14590	5770	67524
1975	7910	20870	5040	9920	6850	6700	1090	988	335	325	454	672	61154
MAX	7910	20870	25910	15940	33900	17890	3380	3040	10730	24790	14590	49520	97195
MIN	723	932	732	1410	1150	274	118	110	223	325	454	672	20297
MEAN	4023	7130	9102	8243	9186	6054	1216	890	3205	7548	4161	8524	69282
NO.	7	7	8	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	5.8%	10.3%	13.1%	11.9%	13.3%	8.7%	1.8%	1.3%	4.6%	10.9%	6.0%	12.3%	100%

TRINITY RIVER BASIN

08061550 Lake Ray Hubbard near Forney, Texas

LOCATION: Lat 32°48'00", long 96°29'45", Kaufman County, near the right end of the spillway in Forney Dam on the East Fork Trinity River, 0.5 mi (0.8 km) upstream from Duck Creek, 1.8 mi (2.9 km) upstream from the bridge on Interstate Highway 20, 3.8 mi (6.1 km) northwest of Forney, and 24 mi (39 km) downstream from Laron Dam.

DRAINAGE AREA: 1,071 mi² (2,774 km²).

PERIOD OF RECORD: January 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1968-75): Maximum contents, 500,800 ac-ft (617.6 hm³) June 4, 1973 (elevation, 435.98 ft or 132.887 m); minimum contents since the first appreciable filling following closure of the gates on Mar. 22, 1970, 371,000 ac-ft (467.4 hm³) July 23, 1971 (elevation, 429.85 ft or 131.018 m).

REMARKS: The lake is formed by a rolled earthfill dam 12,500 ft (3,810 m) long, including a 664-foot (202-m) gated spillway with fourteen 40- by 28-foot (12- by 9-m) tainter gates, with a capacity of 489,000 ac-ft (604.0 hm³). Closure was made in September 1967 but the gates were not closed until Mar. 22, 1970. Low-flow releases are made through three 4.5- by 6.75-foot (1.4- by 2.06-m) sluiceways. The flow in each sluiceway is controlled by three sluice gates. The lake was built by the City of Dallas for municipal water supply.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1968	63980	60480	97450	89670	95180	84510	29290	10380	16670	16890	26210	66910
1969	86370	89290	91580	90430	96260	93220	79860	75330	74370	76700	76000	82270
1970	83000	90680	191600	227000	374500	417200	406700	404900	409900	414600	409500	394300
1971	391700	393300	389700	389300	389500	380600	377600	380400	376700	469200	463300	456500
1972	459300	459800	456500	456900	453400	446900	433100	422700	414800	420200	425000	427600
1973	441600	471000	466600	473500	479800	488800	484500	470400	470400	479300	466200	469300
1974	469700	467000	467900	471500	475300	479300	464600	477100	471700	463600	467500	468800
1975	479500	459600	454300	456700	471500	476600	479300	468200	453900	438200	432400	431100
MAX	479500	471000	467900	473500	479800	488800	484500	477100	471700	483600	467500	469300
MIN	63980	60480	91580	89670	95180	84510	29290	10380	16670	16890	26210	66910
MEAN	309394	311394	326954	331875	354305	358391	344369	338676	336055	349836	345764	349598
NO.	8	8	8	8	8	8	8	8	8	8	8	8
DISTR OF MEAN	7.6%	7.7%	8.1%	8.2%	8.7%	8.8%	8.5%	8.3%	8.3%	8.6%	8.5%	8.6%

TRINITY RIVER BASIN

09061700 Duck Creek near Garland, Texas

LOCATION: Lat. 32°48'59", long 96°35'43", Dallas County, at the bridge on Belt Line Road, 6.0 mi (9.7 km) southeast of Garland, and 7.7 mi (12.4 km) upstream from the mouth.

DRAINAGE AREA: 31.6 mi² (81.6 km²).

PERIOD OF RECORD: January 1958 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 430.02 ft (131.070 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1962, at datum 4.00 ft (1.219 m) higher.

AVERAGE DISCHARGE: 18 years, 19,222 ac-ft/yr (23.7 hm³/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 16,000 ft³/s (453 m³/s) July 27, 1962 (gage height, 20.80 ft or 6.340 m, present datum); no flow at times.

Maximum stage since about 1895, 21.5 ft (6.55 m), present datum, June 13, 1949, from information by local residents.

REMARKS: Records good. The flow is slightly regulated by several small on-channel dams. The low flows may be sustained by effluents from the City of Garland.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	1210	262	3400	7060	3120	186	154	12.0	405	24.0	63.0	25.0	15921
1959	17.0	816	445	12.0	51.0	110	65.0	1.00	3.20	4240	1130	3120	10010
1960	3220	1200	568	437	385	131	864	825	44.2	51.0	39.0	2400	10164
1961	2780	1430	2460	435	222	2390	157	51.0	645	255	1040	1430	13295
1962	429	645	584	3960	543	2830	8460	496	2740	4220	2640	545	28092
1963	338	195	238	3800	537	93.0	179	1.80	0	0	44.0	81.0	5507
1964	231	160	1530	729	979	84.0	11.0	366	5100	140	2110	335	11775
1965	1430	4860	468	539	7930	499	163	29.0	504	61.0	275	143	16901
1966	251	1240	489	22900	6670	700	280	606	534	317	80.0	204	34271
1967	75.0	93.0	371	1420	2440	270	404	2.10	1850	2140	730	1840	11635
1968	2850	1090	5730	2440	3780	3200	796	181	311	149	717	382	21626
1969	1340	1610	3700	1330	9930	150	13.0	17.0	138	1130	212	1680	21230
1970	413	5420	4230	3040	3500	1350	26.0	727	1620	1130	118	225	21799
1971	105	449	197	583	604	153	904	1470	924	10230	682	10670	26971
1972	806	204	338	871	447	657	39.0	46.0	48.0	1720	1230	537	6943
1973	1790	1850	3190	4200	2240	9030	2700	127	4560	6940	1250	1050	38927
1974	2230	815	522	3210	1220	3380	209	986	9080	4510	2980	1520	30662
1975	1610	5030	1080	2500	4870	2930	654	704	40.0	2.70	405	415	20241
MAX	3220	5420	5730	22900	9930	9030	8460	1470	9080	10230	2980	10670	38927
MIN	17.0	93.0	197	12.0	51.0	84.0	11.0	1.00	0	0	39.0	25.0	5507
MEAN	1174	1521	1641	3304	2748	1564	893	369	1586	2070	875	1977	19222
NO.	18	18	18	18	18	18	18	18	18	18	18	18	18
DISTR OF MEAN	6.1%	7.9%	8.5%	17.2%	14.3%	8.1%	4.6%	1.9%	8.3%	10.8%	4.6%	7.7%	100%

TRINITY RIVER BASIN

08061750 East Fork Trinity River near Forney, Texas

LOCATION: Lat 32°46'26", long 96°30'13", Kaufman County, 130 ft (40 m) downstream from the bridge on Interstate Highway 20, 0.2 mi (0.3 km) downstream from Duck Creek, 1.9 mi (3.1 km) downstream from Lake Ray Hubbard Dam, 2.5 mi (4.0 km) upstream from the Texas and Pacific Railroad Co. bridge, and 2.6 miles (4.2 km) northwest of Forney.

DRAINAGE AREA: 1,118 mi² (2,896 km²), of which 1,071 mi² (2,774 km²) is above Lake Ray Hubbard.

PERIOD OF RECORD: February 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 377.86 ft (115.17 m) above mean sea level. Prior to Aug. 26, 1975, recording gage located at site 126 ft (38 m) upstream at same datum and 868 ft (265 m) to left.

EXTREMES: Period of record (1973-75): Maximum discharge, 27,100 ft³/s (767 m³/s) June 4, 1973 [gage height, 15.87 ft or 4.837 m]; minimum, 16 ft³/s (0.42 m³/s) Sept. 3, 1973.

REMARKS: Records good. The flow is regulated by Lake Ray Hubbard (station 08061550). The low flow is sustained by the sewage effluent from the City of Garland.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	-	21270	137200	76610	143800	126200	34430	1480	51520	244400	127700	70520	-
1974	48210	13070	13600	52520	51860	68640	2640	3550	94200	69240	155000	138500	711030
1975	108400	147300	118500	102200	73030	107600	39760	7850	2040	1890	1970	2240	712780
MAX	108400	147300	137200	102200	143800	126200	39760	7850	94200	244400	155000	138500	712780
MIN	48210	13070	13600	52520	51860	68640	2640	1480	2040	1890	1970	2240	711030
MEAN	78305	60547	89767	77110	89563	100813	25610	4293	49253	105177	94890	70420	845748
NO.	2	3	3	3	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	9.3%	7.2%	10.6%	9.1%	10.6%	11.9%	3.0%	.5%	5.8%	12.4%	11.2%	8.3%	100%

TRINITY RIVER BASIN

08061950 South Mesquite Creek at Mercury Road near Mesquite, Texas

LOCATION: Lat. 32°43'32", Long 96°34'12", Dallas County, at the bridge on Mercury Road, 3.3 mi (5.3 km) southeast of Mesquite, and 3.6 mi (5.8 km) upstream from the mouth.

DRAINAGE AREA: 23.0 mi² (59.6 km²).

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 389.91 ft (118.845 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 16,531 ac-ft/yr (20.4 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 9,000 ft³/s (255 m³/s) June 4, 1973 (gage height, 12.10 ft or 3.688 m); no flow at times.

Maximum stage since about 1918, 14.3 ft (4.36 m) Apr. 27, 1957 (discharge not determined), from information by the Corps of Engineers.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	-	-	-	33.0	546	318	-
1969	95.0	156.0	287.0	109.0	604.0	11.0	0	0	124	726	87.0	159.0	1419.3
1970	23.0	51.80	306.0	190.0	236.0	40.1	0	38.0	99.3	121.0	109	177	1600.0
1971	108	449	174	226	497	61.0	42.1	525	703	837.0	349	615.0	1803.3
1972	819	112	115	861	510	743	17.0	5.00	57.0	130.0	858	718	6115
1973	2000	1240	2020	4250	1890	8080	1150	11.0	2820	6520	871	1230	32082
1974	2950	624	198	1940	1810	2430	52.0	835	3920	3380	1830	1170	21139
1975	1160	3890	625	2350	2970	335	128	61.0	5.30	0	222	251	11997
MAX	2950	5180	3060	4250	6040	8080	1150	835	3920	8370	1830	6150	32082
MIN	95.0	112	115	226	497	11.0	0	0	5.30	0	87.0	177	6115
MEAN	1052	1865	1295	1802	2297	1723	253	260	1232	2692	609	1451	16531
NO.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	6.4%	11.3%	7.8%	10.9%	13.9%	10.4%	1.5%	1.6%	7.5%	16.3%	3.7%	8.8%	100%

TRINITY RIVER BASIN

08062000 East Fork Trinity River near Crandall, Texas

LOCATION: Lat 32°38'19", Long 96°29'17", Kaufman County, at the bridge on U.S. Highway 175, 0.7 mi (1.1 km) downstream from Mustang Creek, 1.8 mi (2.9 km) northwest of Crandall, and 4.0 mi (6.4 km) upstream from Buffalo Creek.

DRAINAGE AREA: 1,256 mi² (3,263 km²).

PERIOD OF RECORD: July 1948 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 343.68 ft (104.757 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 27 years, 463,272 ac-ft/yr (571.2 km³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 33,000 ft³/s (935 m³/s) May 28, 1957 (gage height, 22.81 ft or 6.952 m); no flow at times.

REMARKS: Records good. The flow is largely regulated by Lavon Lake (station 08060500) since September 1953 and Lake Ray Hubbard (station 08061550) since Mar. 22, 1970.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	2650	477	30.0	45590	3490	2230	-
1950	87720	288800	41640	46890	287200	69900	54750	33150	131500	6480	2330	2380	1052740
1951	2580	48300	10330	8330	19280	249900	15220	286	403	49.0	73.0	119	354870
1952	179	1280	1170	50770	68720	16310	105	0	0	0	5830	9750	154114
1953	5590	2850	20710	43100	198800	2520	98.0	429	157	209	1600	1360	277423
1954	8810	1870	733	12540	26190	1060	9480	1050	0	1430	878	220	64261
1955	576	3690	2080	4370	6130	5920	536	666	1320	1570	225	300	27373
1956	860	3290	652	444	35070	1070	236	0	0	97.0	595	281	42595
1957	478	1280	3980	153600	589400	116900	63070	57320	4410	5810	55960	58760	1120968
1958	59710	15290	79140	115300	211200	41320	57850	44730	13180	14320	956	1700	654696
1959	1340	10760	12750	7510	2590	3670	12530	8950	364	29530	16610	52600	159204
1960	102900	90170	32600	5060	23810	1160	2160	4280	1900	750	518	70750	336058
1961	95600	53500	51250	46560	21520	32420	5480	324	1480	2520	6970	30380	348004
1962	12590	14050	16890	54730	61880	26490	92700	12560	69440	49260	37750	48580	496920
1963	9730	4340	6990	36310	72900	67510	1610	371	807	521	581	869	202539
1964	1310	1830	7310	6580	4500	39490	1030	1460	64890	110500	91610	114400	444910
1965	38760	100200	100500	13100	113200	96050	3160	1470	3060	1570	3140	2250	476460
1966	2720	13590	5090	150100	379200	72960	32420	4890	6020	7720	2160	2220	679090
1967	1880	1820	3210	11140	35790	68170	36380	1290	14900	35760	39630	31490	281460
1968	38000	68420	95360	138400	208800	112400	88930	36410	1910	1170	5160	5140	800100
1969	2350	110700	109400	91510	228800	130000	18910	1800	1890	3370	2040	5130	705900
1970	4710	46790	80090	56040	8030	14280	1730	2510	6640	12060	2880	15330	251090
1971	2610	4410	2720	2580	2680	1580	2530	3520	3360	50950	44540	270600	392080
1972	189600	8290	4370	3510	2700	2680	1840	1650	1540	3940	5060	3440	228620
1973	8640	21220	123500	87290	128900	141000	40050	3100	42910	253100	142100	70610	1062420
1974	60620	14710	12270	45940	67940	73870	3740	5090	92800	60650	180400	139000	757030
1975	110300	169000	128400	112400	77060	105400	39730	8780	3410	2460	2650	3170	762760
MAX	189600	288800	128400	153600	589400	249900	92700	57320	131500	253100	180400	270600	1110968
MIN	179	1280	652	444	2590	1060	98.0	0	0	0	73.0	119	27373
MEAN	32699	42325	36659	50158	110857	57463	21812	8762	17345	25977	24287	34928	463272
NO.	26	26	26	26	26	26	27	27	27	27	27	27	26
DISTR OF MEAN	7.1%	9.1%	7.9%	10.8%	23.9%	12.4%	4.7%	1.9%	3.7%	5.6%	5.2%	7.5%	100%

TRINITY RIVER BASIN

08062500 Trinity River near Rosser, Texas

LOCATION: Lat 32°25'35", long 96°27'44", Ellis-Kaufman County line, at the bridge on State Highway 34, 2.5 mi (4.0 km) south of Rosser, and 8.5 mi (13.7 km) downstream from the East Fork Trinity River.

DRAINAGE AREA: 8,146 mi² (21,098 km²).

PERIOD OF RECORD: August 1924 to September 1925, October 1928 to December 1975.

GAGE: Water stage recorder. Datum of gage is 302.65 ft (92.248 m) above mean sea level, datum of 1929, July 25, 1924 to Sept. 30, 1925, nonrecording gage at an abandoned lock and dam No. 7, 1.7 mi (2.7 km) upstream from present site at datum 6.94 ft (2.115 m) higher.

AVERAGE DISCHARGE: 40 years (1924-25, 1938-75), 1,898,566 ac-ft/yr (1,898.6 hm³/yr).

EXTREMES: Period of record (1924-25, 1938-75): Maximum discharge, 133,900 ft³/s (3,766.6 m³/s), Apr. 23 or 24, 1942, following numerous breaks in the levee system along both banks (maximum gage height, 41.55 or 12.664 m) Apr. 22, 1942, just prior to the levee breaks; minimum, 32 ft³/s (0.91 m³/s) for several days in 1924-25.

Maximum discharge, that of April 23, 1942.

REMARKS: Records good. The flow is largely regulated by 15 major upstream reservoirs having a combined capacity of 3,572,000 ac-ft (4,404.3 hm³), 1,138,000 ac-ft (1,403.2 hm³) for flood control. A levee system constructed in 1916 extends several miles upstream and downstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	3950	3760	2020	2950	3100	-
1925	3750	4040	3360	50030	263200	9170	3850	2280	5300	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	13530	9500	5710	-
1939	20880	30650	34170	198100	50390	56490	16090	10800	7210	8000	12630	6440	451850
1940	5690	9960	11100	188800	253800	309200	320600	30100	11070	9820	151700	546700	1848540
1941	253700	269300	283800	335700	450100	1464000	399300	105000	52010	193500	162500	100900	4069810
1942	85190	56820	65360	2297000	977200	559400	109000	42700	105800	151500	121600	86950	4658520
1943	52870	61820	252500	225000	251100	382000	23610	12730	26640	15420	8310	12570	1324570
1944	20390	94110	297200	117500	668900	166500	30600	21880	40310	29500	39330	117900	1644120
1945	127400	653700	1237000	979100	135400	365800	342700	41140	39370	243800	77890	51260	4294560
1946	165400	508400	194200	125100	311400	912500	31120	47430	34960	22290	628600	478600	3460000
1947	167600	65460	114200	213100	120800	186400	34810	94870	78770	39660	50520	327100	1493290
1948	216700	187900	539600	55000	224800	75970	96730	31870	29410	20330	12170	13780	1504260
1949	169300	357100	274600	100200	610900	417800	32250	15740	24840	140200	68590	22070	2233590
1950	226900	793100	108200	153900	804200	158600	166200	193200	430800	84150	61660	27460	3208370
1951	23430	54440	36040	26900	56390	492900	60700	23870	23670	19320	13040	12360	843060
1952	11530	14120	14940	130000	168300	36360	13140	9740	9880	8660	31960	42720	491350
1953	24000	14270	52430	76270	411700	12500	14300	10890	10610	17480	13330	13030	670810
1954	29700	12470	10620	30570	81500	14120	14840	11920	8050	17890	11860	8940	252480
1955	11750	17410	17410	26540	47210	31650	11380	12100	11910	10430	7820	10740	216350
1956	11190	18710	9860	12650	85420	14460	7690	7170	7070	8700	13440	12080	208440
1957	9760	13620	22640	542000	1621000	1194000	432000	293000	40090	55090	371700	137500	4732400
1958	158500	68270	243500	374100	1034000	307200	167900	62040	102200	47890	19640	20600	2605840
1959	19840	55580	44140	55250	66680	79200	35840	21070	14850	381100	54930	190200	1018660
1960	431400	183900	85650	41290	80860	24260	32020	37200	18040	24030	15850	151600	1126100
1961	214800	164400	182100	104600	55720	128900	49910	24780	28710	29550	36920	68660	1089050
1962	39460	48100	42370	130300	103600	62440	198200	122700	495200	303100	106800	228900	1881170
1963	47180	27320	31170	92000	256900	104900	25160	23550	21300	16870	14600	18050	679000
1964	21860	24660	53760	66190	37780	63700	19010	26140	253200	211900	328200	445100	1551500
1965	167500	531600	233100	69940	515100	229800	35330	30480	45530	30740	41430	33440	1963990
1966	26960	124100	56810	414800	1201000	449400	249100	50420	54160	66410	23070	25470	2741700
1967	23900	22750	31550	68660	79360	224800	75430	22660	57560	116600	101800	91680	916750
1968	159800	143000	498100	485900	533800	352600	157200	81910	35040	36120	46520	50840	2580830
1969	35020	188600	419500	389200	1001000	415200	81690	34950	41710	60180	38860	64420	2770330
1970	71010	175400	590200	320100	363700	165600	32850	38548	89430	130700	27100	41270	2045900
1971	28960	33670	43430	47570	39200	30890	44130	62690	31030	335000	117100	850400	1664070
1972	506200	45470	34630	49170	52470	29610	25170	27530	26660	62760	65920	34120	959710
1973	99000	126400	309600	359700	403400	565800	208700	122100	136800	533000	316000	158000	3338500

TRINITY RIVER BASIN
08062500 Trinity River near Rosser, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	175000	69940	55400	106400	214800	183900	31690	59460	175300	162400	686400	553900	2674590
1975	232000	750900	308400	460200	348100	543700	176100	63480	24860	22810	26000	34280	2990830
MAX	506200	793100	1237000	2297000	1621000	1464000	432000	293000	495200	533000	886400	850400	4732400
MIN	3750	4040	3360	12650	37780	9170	3850	2280	3760	2020	2950	3100	208440
MEAN	107777	156459	180069	250496	367926	284782	100167	49592	68028	94422	106109	130739	1898566
NO.	38	38	38	38	38	38	38	39	39	39	39	39	37
DISTR OF MEAN	5.7%	8.3%	9.5%	13.2%	19.4%	15.0%	5.3%	2.6%	3.6%	5.0%	5.6%	6.9%	100%

TRINITY RIVER BASIN

08062650 Cedar Creek Reservoir Spillway Outflow near Trinidad, Texas

LOCATION: Lat 32°14'18", long 96°08'38", Henderson County, at the bridge on State Highway 274, 0.2 mi (0.3 km) downstream from Cedar Creek Reservoir spillway, 1.8 mi (2.9 km) upstream from the mouth of the cut channel at the Trinity River, and 7.6 mi (12.2 km) north of Trinidad.

DRAINAGE AREA: 1,007 mi² (2,608 km²), that of Cedar Creek Reservoir.

PERIOD OF RECORD: October 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to July 9, 1966, nonrecording gage at same site and datum. Auxiliary water-stage recorder 6,000 ft (1,830 m) downstream from the base gage at the same datum.

AVERAGE DISCHARGE: 11 years, 444,411 ac-ft/yr (548.0 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 110,000 ft³/s (3,120 m³/s) June 4, 1973 (elevation, 300.75 ft or 91.669 m); no flow at times each year except 1971.

REMARKS: Records good. Except for a small amount of local runoff and seepage around the gates, all flow is water released from Cedar Creek Reservoir (station 08063010).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	0	0	0	-
1966	0	0	0	0	195400	0	0	0	0	0	0	0	195400
1967	0	0	0	0	0	0	0	0	0	113	19.0	166.50	16782
1968	143000	50270	133800	104200	151800	5440	300	14.0	16.0	8.30	11.0	6.40	588866
1969	16.0	51990	159200	37160	276300	41.0	16.0	12.0	13.0	15.0	7.58	15380	540901
1970	28960	69930	222400	25440	17750	68.0	1660	1430	671	53460	4200	2230	428219
1971	2640	3160	31420	6510	4760	4000	2170	671	21.0	123100	67680	408700	654832
1972	177500	4410	3.00	7.00	6.00	5.00	0	0	0	2.00	.40	3.10	181936
1973	4260	43600	96480	261000	53160	294800	34.0	4.60	15370	64170	66470	61100	960449
1974	110100	9580	5970	18480	68330	27170	348	70.0	15.0	16590	245000	78190	579843
1975	29350	156100	47480	105000	68630	1510	3.60	.40	.30	5.30	7.80	56.0	408143
MAX	177500	156100	222400	261000	276300	294800	2170	1430	15370	123100	245000	408700	960449
MIN	0	0	0	0	0	0	0	0	0	0	0	0	16782
MEAN	49565	38904	69675	55780	83614	33303	453	220	1611	23406	34922	52938	444411
NG.	10	10	10	10	10	10	10	10	10	11	11	11	10
DISTR OF MEAN	11.2%	8.8%	15.7%	12.6%	18.8%	7.5%	.1%	.0%	.4%	5.3%	7.9%	11.9%	100%

TRINITY RIVER BASIN

08062700 Trinity River at Trinidad, Texas

LOCATION: Lat 32°08'05", long 96°06'20", Navarro-Henderson County line, at the pumping station of the Texas Power and Light Co. near the southwest boundary of Trinidad, 0.5 mi (0.8 km) downstream from the St. Louis-Southwestern Railway Co. bridge, 0.9 mi (1.4 km) downstream from the bridge on State Highway 31, and 8 mi (13 km) upstream from Cedar Creek.

DRAINAGE AREA: 8,638 mi² (22,113 km²), not including 1,007 mi² (2,608 km²) upstream from Cedar Creek Reservoir.

PERIOD OF RECORD: October 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 239.21 ft (72.911 m) above mean sea level, datum of 1928. Prior to May 3, 1967, at site 0.9 mi (1.4 km) upstream at datum 1.28 ft (0.390 m) higher.

AVERAGE DISCHARGE: 12 years, 2,929,363 ac-ft/yr (3,611.9 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 83,000 ft³/s (2,350 m³/s) May 8, 1968 (gage height, 44.10 ft or 13.442 m); minimum daily, 312 ft³/s (8.84 m³/s) Aug. 9, 1972.

Maximum stage since at least 1908, 40.8 ft (15.16 m) Apr. 25, 1942 (present site and datum), from records of the National Weather Service.

REMARKS: Records good. For regulation by upstream reservoirs, see Trinity River near Rossar (station 08062500). The spillway outflow from Cedar Creek Reservoir (station 08062650) enters the Trinity River 13 mi (21 km) upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	247600	301600	434000	-
1965	159500	533300	244000	77510	556300	261000	36790	29460	46590	32500	44880	36120	2057950
1966	29450	132600	67560	415200	1831000	429200	251500	43980	60040	68550	24000	28260	3381540
1967	25540	23540	33360	68100	77990	223400	80480	24240	59020	132500	172900	129700	1050770
1968	331100	220200	674500	685600	786300	370200	151500	79960	36270	34610	41570	57050	3468860
1969	30090	251400	667300	410200	1423000	485900	90640	38900	43760	56470	47290	80790	3625740
1970	124500	235700	1022000	339500	482900	180400	35180	40150	88900	217000	41670	45390	2853290
1971	33460	34740	75880	55010	42630	37650	44820	72870	33760	526200	196000	1310000	2463020
1972	752800	57470	37400	50620	65030	31300	24210	27070	26660	59900	74360	38130	1244950
1973	116800	179300	461700	667200	513800	941500	189100	123500	120500	700200	438900	237500	4690000
1974	319900	90210	66950	123200	320100	206800	32200	62150	199100	143800	1200000	691000	3455410
1975	283800	904100	378900	626100	495400	549000	177800	79440	30410	25630	27500	35070	3613150
MAX	752800	904100	1022000	685600	1831000	941500	251500	123500	199100	700200	1200000	1310000	4690000
MIN	25540	23540	33360	50620	42630	31300	24210	24240	26660	25630	24000	28260	1050770
MEAN	200649	242051	339050	319840	599495	337850	101293	56520	67728	187080	217556	260251	2929363
NO.	11	11	11	11	11	11	11	11	11	12	12	12	11
DISTR OF MEAN	6.8%	8.3%	11.6%	10.9%	20.5%	11.5%	3.5%	1.9%	2.3%	6.4%	7.4%	8.9%	100%

TRINITY RIVER BASIN

08062800 Cedar Creek near Kemp, Texas

LOCATION: Lat 32°30'11", long 96°06'43", Kaufman County, at the bridge on Farm Road 1636, 3 mi (5 km) upstream from Williams Creek, and 8 mi (13 km) northeast of Kemp.

DRAINAGE AREA: 188 mi² (490 km²).

PERIOD OF RECORD: January 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 341.48 ft (104.083 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 85,858 ac-ft/yr (105.6 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 29,000 ft³/s (821 m³/s) Apr. 26, 1966 (gage height, 16.00 ft or 4.877 m); no flow at times each year.

Maximum stage since at least 1880, about 20.5 ft (6.25 m) in 1946, from information by the State Highway Department and local residents.

REMARKS: Records good above 700 ft³/s (19.8 m³/s) and fair below. The flow is regulated by Terrell Municipal Lake, capacity 8,300 ac-ft (10.2 hm³).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1963	1260	78.0	480	18160	2130	176	15.0	0	0	0	0	0
1964	139	395	918	11000	354	0	0	0	569	33.0	175	0
1965	334	12480	726	418	26220	956	4.20	14.0	2970	2.80	1010	6.70
1966	2130	6800	550	85370	30600	112	455	878	1850	.70	0	113
1967	113	16.0	515	2830	1150	7840	2910	0	990	40800	7980	17510
1968	16540	9490	23840	16880	30880	1750	612	0	0	0	1120	4040
1969	1990	11780	20860	5680	51980	460	0	0	4.20	2590	1450	12670
1970	3640	16710	28240	11990	3520	682	.20	.30	1460	14440	550	97.0
1971	84.0	1360	680	145	533	6.50	22480	3520	255	18360	3290	62100
1972	17560	666	311	95.0	122	1820	74.0	0	0	1050	2350	3790
1973	12020	6790	18640	33820	2270	49430	170	6.50	2240	16570	16050	15930
1974	25140	2070	726	3870	17760	11990	39.0	37.0	1060	2560	58850	15260
1975	4060	32170	7220	18550	7690	1340	105	.04	.80	0	0	0
MAX	25140	32170	28240	85370	51980	49430	22480	3520	2970	40800	58850	62100
MIN	84.0	16.0	311	95.0	122	0	0	0	0	0	0	0
MEAN	6539	7754	7977	16062	13478	5889	2066	343	877	7416	7140	10117
NO.	13	13	13	13	13	13	13	13	13	13	13	13
DISTR OF MEAN	7.6%	9.1%	9.3%	18.8%	15.7%	6.9%	2.4%	.4%	1.0%	8.7%	8.3%	11.8%

TRINITY RIVER BASIN

08062900 Kings Creek near Kaufman, Texas

LOCATION: Lat 32°30'48", long 96°19'44", Kaufman County, at the bridge on Farm Road 1388, 3 mi (5 km) upstream from Big Cottonwood Creek, 4 mi (6 km) downstream from Big Brushy Creek, and 5 mi (8 km) south of Kaufman.

DRAINAGE AREA: 233 mi² (603 km²).

PERIOD OF RECORD: January 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 343.24 ft (104.620 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 112,599 ac-ft/yr (138.8 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 33,800 ft³/s (957 m³/s) May 7, 1969 (gage height, 23.34 ft or 7.114 m); no flow at times most years.

Maximum stage since at least 1942, 23.34 ft (7.114 m) May 7, 1969.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	2140	462	451	28800	1970	89.0	44.0	2.80	0	0	111	102	34172
1964	223	324	2600	12750	947	169	1.40	0	5460	79.0	4540	201	27294
1965	1780	28840	2140	395	41770	354	69.0	78.0	900	97.0	2630	126	79179
1966	1120	12450	1490	83110	31370	1030	68.0	517	843	2600	72.0	97.0	134767
1967	123	139	459	3200	7900	3640	2110	66.0	5240	69650	16340	23280	132147
1968	24390	11680	36140	8890	25500	7500	654	94.0	178	103	1440	3850	120419
1969	349	14870	31450	5580	93120	839	94.0	144	106	3560	413	13620	164145
1970	3010	27510	53180	17410	2840	6240	96.0	116	12570	14810	675	342	138799
1971	237	1750	626	410	902	122	8820	1290	286	60510	1080	50310	126343
1972	14290	524	313	396	349	832	116	73.0	132	2910	4660	2960	27555
1973	15520	15680	19160	47810	3980	38870	2310	242	4280	25950	14850	13150	201802
1974	40050	1930	1250	4610	17570	27550	105	544	5610	13980	55900	12800	181899
1975	5070	44090	11240	22590	5610	4670	1020	432	139	89.0	123	173	95246
MAX	40050	44090	53180	83110	93120	38870	8820	1290	12570	69650	55900	50310	201802
MIN	123	139	313	395	349	89.0	1.40	0	0	0	72.0	97.0	27294
MEAN	8331	12327	12346	18150	17987	7070	1193	277	2750	14949	7910	9309	112599
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13
DISTR OF MEAN	7.4%	10.9%	11.0%	16.1%	16.0%	6.3%	1.1%	.2%	2.4%	13.3%	7.0%	8.3%	100%

TRINITY RIVER BASIN

08063000 Cedar Creek near Mabank, Texas

LOCATION: Lat 32°19'46", long 96°10'05", Henderson County, at the bridge on Farm Road 85, 3 mi (4.8 km) downstream from Lacys Fork, and 4.6 mi (7.2 km) southwest of Mabank.

DRAINAGE AREA: 733 mi² (1,898.5 km²).

PERIOD OF RECORD: October 1938 to January 1966.

GAGE: Water-stage recorder. Datum of gage is 285.54 ft (87.0 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 29 years, 300,558 ac-ft/yr (370.6 km³/yr).

EXTREMES: Period of record (1938-66): Maximum discharge, 44,800 ft³/s (1,269.7 m³/s) March 30, 1945 (gage height, 25.43 ft or 7.8 m); no flow at times.

Maximum stage since at least 1889, that of March 30, 1945.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	0	0	0	-
1939	3320	44420	10040	5550	22530	23240	10880	0	0	0	12.0	756	120748
1940	81.0	3150	1350	48990	57350	11860	21430	1370	132	4.00	104400	80540	330657
1941	9510	41870	49680	14440	66990	196100	18470	11940	240	11550	7740	13850	442380
1942	4850	13080	8790	306600	89090	79040	324	4270	18810	7270	17040	43560	592724
1943	13220	7060	38370	26730	48920	122800	621	17.0	1490	12820	65.0	8820	280933
1944	35280	52860	34520	11450	197800	15120	693	10.0	164	56.0	18220	67520	433693
1945	43300	90910	248100	93570	2750	94860	93110	926	1400	16340	10200	9640	705106
1946	56780	96450	18700	6100	96710	87950	106	6070	2540	1230	145200	21650	539486
1947	38900	2530	21690	150500	5450	35030	214	7860	5970	127	17010	107000	392281
1948	34080	43320	55560	5180	79320	597	1560	454	112	0	1640	1690	223513
1949	35450	68320	17460	16450	19730	6300	1190	7.90	0	6970	492	345	172715
1950	31440	157200	2880	34090	82590	2160	12800	2330	863	1420	1600	40.0	327994
1951	9600	33960	828	939	9690	50080	2280	0	423	2000	320	0	110120
1952	1170	946	6540	108100	76590	5890	215	0	0	0	9870	47490	256811
1953	10990	770	20430	34660	191400	121	251	961	4950	85.0	118	13710	278446
1954	33320	4390	200	8130	31720	1170	0	0	0	24200	17180	985	121295
1955	2650	17510	21050	35410	3550	2710	164	356	732	89.0	0	0	84221
1956	131	18710	76.0	200	24670	202	0	0	0	0	15310	8.69	60168
1957	8740	18160	33980	393600	154800	27420	30.0	397	6110	76080	106200	12010	837527
1958	33020	1700	27090	171000	171400	1480	18290	0	6940	2690	1780	970	436360
1959	652	40370	12490	61380	45130	15860	1710	55.0	2.80	28380	5900	72360	284290
1960	113800	35260	14540	1040	2270	3550	2080	2270	1060	650	5290	146100	327910
1961	82930	51310	49800	7970	2550	71830	9750	570	1280	198	13600	29150	320938
1962	5720	14840	7670	40540	21810	8550	41590	3750	15910	9410	22370	9140	201300
1963	3950	580	981	54660	23260	169	41.0	4.40	0	0	11.0	45.0	83701
1964	90.0	550	3610	27160	4850	172	1.40	0	3920	78.0	4010	147	44588
1965	4410	62140	3650	2190	90750	2830	211	4.0	3060	241	4620	138	174240
1966	3760	-	-	-	-	-	-	-	-	-	-	-	-
MAX	113800	157200	248100	393600	197800	196100	93110	11940	18810	76080	145200	146100	837527
MIN	81.0	550	76.0	200	2270	121	0	0	0	0	0	0	44588
MEAN	22184	34162	26299	61727	60136	32114	8815	1616	2819	7160	18936	24590	300558
NO.	28	27	27	27	27	27	27	27	27	28	28	28	27
DISTR OF MEAN	7.4%	11.4%	8.8%	20.5%	20.0%	10.7%	2.9%	.5%	.9%	2.4%	6.3%	8.2%	100%

TRINITY RIVER BASIN

08063010 Cedar Creek Reservoir near Trinidad, Texas

LOCATION: Lat 32°14'34", long 96°08'28", Henderson County, at the site of a future pump station 1,000 ft (305 m) north of the spillway, 5.5 mi (8.8 km) upstream from Joe B. Hogsett Dam on Cedar Creek, and 8.0 mi (12.8 km) northwest of Trinidad.

DRAINAGE AREA: 1,007 mi² (2,608 km²).

PERIOD OF RECORD: January 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1965-75): Maximum contents, 722,000 ac-ft (890.2 hm³) June 4, 1973 (elevation, 323.24 ft or 98.524 m); minimum contents since the first appreciable storage in 1966, 332,900 ac-ft (410.4 hm³) Mar. 18, 1967 (elevation, 309.42 ft or 94.311 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 17,539 ft (5,346 m) long, with a capacity of 679,200 ac-ft (837.4 hm³). The spillway is located on the right bank, 5.5 mi (8.8 km) upstream from the dam and discharges into the Trinity River through a cut channel 2 mi (3 km) long. Deliberate impoundment began on July 2, 1965 and the dam was completed in February 1966. The spillway is 474 ft (144 m) long and has eight 40- by 24-foot (12- by 7-m) radial gates and two automatically operated 40- by 8.5-foot (12- by 2.6-m) hinged gates. The low-flow releases may be made downstream through a 5.0-foot diameter (1.5-m) conduit through the dam. The dam is the property of the Tarrant County Water Control and Improvement District No. 1 and was built for municipal and industrial supply and for recreational purposes.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1965	12000	24000	9500	6550	60000	9500	4800	2800	10000	6700	10130	10530
1966	25810	48080	52230	433400	370200	358900	347700	352200	358900	349700	343300	342800
1967	339600	336400	337200	355500	366000	373200	368800	355300	370200	549400	602600	679200
1968	621900	619600	611300	610700	678200	679600	672300	653300	644100	632800	644400	660000
1969	671900	674600	642800	651000	664000	650300	625700	607300	597900	609500	612900	669300
1970	645100	682300	628300	660300	655300	651700	632500	615800	625100	679900	671300	666000
1971	658600	663600	628300	621600	612600	594200	655700	664000	661000	676600	644100	650000
1972	648700	644700	639900	635100	628000	623500	607600	590100	583900	607300	603800	617700
1973	675900	671600	672900	680900	675200	676900	678600	660000	663300	677900	676600	677900
1974	678600	673600	674600	678600	678600	669900	647700	644700	651000	664600	672900	676200
1975	680600	676900	672300	679900	682300	680900	665300	649700	636400	624500	617000	609800
MAX	680600	682300	674600	680900	682300	680900	678600	664000	663300	679900	676600	679200
MIN	12000	24000	9500	6550	60000	9500	4800	2800	10000	6700	10130	10530
MEAN	514428	519580	506303	546686	551855	542600	536973	526836	527436	552627	554457	569039
NO. OF MEAN	11	11	11	11	11	11	11	11	11	11	11	11
DISTR OF MEAN	8.0%	8.1%	7.9%	8.5%	8.6%	8.4%	8.3%	8.2%	8.2%	8.6%	8.6%	8.8%

TRINITY RIVER BASIN
08063020 Cedar Creek at Trinidad, Texas

LOCATION: Lat 32°09'24", long 96°03'45", Henderson County, at the bridge on State Highway 31, 0.4 mi (0.6 km) upstream from the St. Louis-Southwestern Railway bridge, 2.5 mi (4.0 km) downstream from Joe B. Hogsett Dam, and 8 mi (12.9 km) upstream from the mouth.

DRAINAGE AREA: 1,011 mi² (2,618.5 km²).

PERIOD OF RECORD: November 1964 to September 1971.

GAGE: Water-stage recorder. Datum of gage is 252.33 ft (76.9 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 36,891 ac-ft/yr (45.5 km³/yr).

EXTREMES: Period of record (1964-71): Maximum discharge, 2,010 ft³/s (56.9 m³/s) May 19, 1965 (gage height, 15.0 ft or 4.6 m); maximum gage height, 26.1 ft (7.9 m) May 9, 1966; no flow at times.

REMARKS: Records poor. The flow is regulated by Cedar Creek Reservoir (station 08063010).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	-	12.0	28.0	-
1965	332	68110	24500	7530	71010	62070	1640	0	0	0	0	0	235192
1966	3.00	604	70.0	1440	201	11.0	3.80	190	8.70	8.60	16.0	31.0	2567
1967	47.0	51.0	17.0	147	192	38.0	15.0	8.60	512	1150	149	434	2761
1968	299	386	297	360	1590	192	61.0	44.0	62.0	69.0	185	211	3756
1969	180	1530	2280	2750	2090	98.0	30.0	28.0	48.0	83.0	124	745	9986
1970	179	818	493	57.0	51.0	57.0	11.0	12.0	74.0	985	72.0	32.0	2841
1971	48.0	84.0	103	69.0	38.0	16.0	41.0	215	73.0	-	-	-	-
MAX	332	68110	24500	7530	71010	62070	1640	215	512	1150	185	745	235192
MIN	3.00	51.0	17.0	57.0	38.0	11.0	3.80	0	0	0	0	0	2567
MEAN	155	10226	3966	1765	10739	8926	257	71.1	111	383	79.7	212	36891
NO.	7	7	7	7	7	7	7	7	7	6	7	7	6
DISTR OF MEAN	.4%	27.7%	10.7%	4.8%	29.1%	24.2%	.7%	.2%	.3%	1.0%	.2%	.6%	100%

TRINITY RIVER BASIN

08063050 Navarro Mills Lake near Dawson, Texas

LOCATION: Lat 31°57'27", long 96°41'21". Navarro County, in the left abutment of the spillway of Navarro Mills Dam on Richland Creek, 1.7 mi (2.7 km) upstream from the bridge on State Highway 31, 3.0 mi (4.8 km) upstream from the St. Louis-Southwestern Railway Co. bridge, 4.2 mi (6.8 km) upstream from Post Oak Creek, and 4.6 mi (7.4 km) north of Dawson.

DRAINAGE AREA: 320 mi² (829 km²).

PERIOD OF RECORD: August 1962 to December 1975. Prior to October 1970, published as "Navarro Mills Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 8, 1962, nonrecording gage in the low-water channel at the same datum.

EXTREMES: Period of record (1962-75): Maximum contents, 183,300 ac-ft (226 hm³) May 18, 1968 (elevation, 440.36 ft or 134.222 m); minimum contents since the initial filling in May 1965, 48,840 ac-ft (60.2 hm³) Apr. 10, 1967 and Oct. 18, 1972 (elevation 421.47 ft or 128.464 m).

REMARKS: The lake is formed by a rolled earthfill dam 7,670 ft (2,310 m) long, including an off-channel 240-foot (73-m) gated spillway with six 40- by 29-foot (12- by 9-m) tainter gates. The capacity of the lake is 63,300 ac-ft (78.0 hm³). From Aug. 27, 1962 to Mar. 14, 1963, the lake was operated as a detention basin only. Deliberate impoundment began on Mar. 15, 1963 and the dam was completed in September 1963. The low-flow outlet works consist of two 36-inch diameter (914-millimeter) gate-controlled conduits. The lake was built for flood control and water conservation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	-	-	-	-	-	-	-	27.0	1610	5800	3760	4280
1963	3560	3360	3320	9380	11640	11100	9860	8760	8080	7520	7460	7370
1964	7660	7680	9280	9280	9130	8440	7390	6800	6430	6100	6530	6560
1965	7310	15360	18640	18820	83790	61820	57240	53950	52360	50020	50790	50250
1966	49610	50890	50840	135200	135300	63430	60080	59190	58110	55560	53760	52780
1967	51710	50560	49470	53010	54230	62770	60420	56470	63020	113700	70750	64350
1968	72550	65060	68820	68190	154600	108500	62620	59830	58840	57630	59930	63680
1969	62720	64760	75000	63580	93580	61920	57630	56180	54140	53600	53360	58870
1970	59500	76030	65230	65180	63100	61330	57600	53880	55050	69230	63150	62140
1971	61330	63150	61730	67000	67000	61980	60530	60180	57500	61020	62190	71850
1972	64920	63250	62590	61680	61000	58380	55850	52710	50260	53500	59360	60040
1973	69220	63350	63150	119800	70230	94620	65130	61070	60820	74700	63350	63100
1974	64770	63400	61980	61830	60280	57550	53410	57940	66520	127200	120300	63400
1975	63860	63380	63890	73050	135400	63130	61720	58600	56660	54090	52040	51760
MAX	72550	76030	75000	135200	154600	108500	65130	61070	66520	127200	120300	71850
MIN	3560	3360	3320	9280	9130	8440	7390	27.0	1610	5800	3760	4280
MEAN	49132	50018	50303	62000	76868	59613	51498	46113	46386	56405	51909	48602
NO. OF MEAN	13	13	13	13	13	13	13	14	14	14	14	14
DISTR												
OF MEAN	7.6%	7.7%	7.8%	9.6%	11.8%	9.2%	7.9%	7.1%	7.1%	8.7%	6.0%	7.5%

TRINITY RIVER BASIN
08063100 Richland Creek near Dawson, Texas

LOCATION: Lat 31°56'18", long 96°40'52", Navarro County, at the bridge on State Highway 31, 1.3 mi (2.1 km) upstream from the St. Louis-Southwestern Railway Co. bridge, 1.7 mi (2.7 km) downstream from Navarro Mills Dam, 2.5 mi (4.0 km) upstream from Post Oak Creek, and 3.6 mi (5.8 km) northeast of Dawson.

DRAINAGE AREA: 333 mi² (862 km²).

PERIOD OF RECORD: October 1960 to December 1975.

GAGE: Water stage recorder. Datum of gage is 370.52 ft (112.934 m) above mean sea level, datum of 1929. Prior to Nov. 21, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 117,529 ac-ft/yr (144.9 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 25,500 ft³/s (722 m³/s) July 3, 1961 (gage height, 27.50 ft or 8.38 m); no flow at times. Maximum discharge since completion of Navarro Mills Dam in 1963, 3,850 ft³/s (109 m³/s) Nov. 24, 1974 (gage height, 19.85 ft or 6.050 m).

Maximum stage since about 1895, about 28 ft (8.5 m) June 19, 1929, from information by local residents.

REMARKS: Records good. The flow is regulated since Mar. 15, 1963 by Navarro Mills Lake (station 08063050).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	-	2040	138	60770	-
1961	83640	58190	23390	3290	2190	27550	28900	272	1480	1070	24290	10510	264772
1962	2590	4210	2100	5270	4620	30680	980	2.20	239	7490	2520	1890	62591
1963	1370	637	187	551	54.0	2.80	0	37.0	36.0	0	0	0	2877
1964	3.60	3.80	14.0	1.40	1.20	0	55.0	20.0	49.0	0	3.40	0	151
1965	37.0	240	91.0	2.40	26800	20950	1090	1090	1300	1360	1410	1380	55750
1966	956	855	744	5510	23120	71290	742	784	581	497	510	585	106174
1967	559	529	559	568	565	19187	462	528	13550	12750	81270	27450	157977
1968	25830	23330	23580	35480	59150	70770	47540	53.0	4.00	15.0	437	11.00	287289
1969	1900	7370	11810	27730	31250	30490	263	352	236	112	408	10.00	112921
1970	104	1160	59730	2800	2010	70.0	0	324	479	37.0	6530	6.87	73931
1971	19.0	22.0	13.0	72.0	2340	2480	206	66.0	531	22.0	30.0	19550	25351
1972	27240	3010	20.0	96.0	196	2.00	168	111	78.0	254	278	58.0	31511
1973	6780	15450	21120	9250	56480	34950	33400	1780	266	24610	13200	1710	218996
1974	3570	3620	2080	93.0	202	125	585	442	16000	7090	47210	64580	145597
1975	10810	28360	7090	26920	23530	80720	1550	494	225	730	381	37.0	180847
MAX	83640	58190	59730	35480	59150	80720	47540	1780	16000	24610	81270	64580	287289
MIN	3.60	3.80	13.0	1.40	1.20	0	0	2.20	4.00	0	0	0	151
MEAN	11027	9799	10169	7842	15501	25951	7729	424	2337	3630	11163	11957	117529
NO.	15	15	15	15	15	15	15	15	15	16	16	16	15
DISTR OF MEAN	9.4%	8.3%	8.7%	6.7%	13.2%	22.1%	6.6%	.4%	2.0%	3.1%	9.5%	10.2%	100%

TRINITY RIVER BASIN

08063200 Pin Oak Creek near Hubbard, Texas

LOCATION: Lat 31°48'01", long 96°43'02", Limestone County, 85 ft (25.9 m) downstream from the bridge on State Highway 171, 5.8 mi (9.3 km) southeast of Hubbard, and 11 mi (17.7 km) upstream from Elm Creek.

DRAINAGE AREA: 17.6 mi² (45.6 km²).

PERIOD OF RECORD: September 1956 to September 1972.

GAGE: Water-stage recorder. Datum of gage is 1,240.97 ft (378.2 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 7,508 ac-ft/yr (8.4 hm³/yr).

EXTREMES: Period of record (1956-72): Maximum discharge, 4,340 ft³/s (122.9 m³/s) August 24, 1956 [gage height, 13.86 ft or 4.2 m]; no flow at times.

Maximum stage since at least 1900, about 17 ft (5.2 m) in August 1919, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	0	0	1740	13.0	-
1957	46.0	395	779	9850	3560	1380	0	0	11.0	645	339	0	17005
1958	57.0	61.0	8.50	243	1190	0	0	2300	646	98.0	42.0	37.0	4683
1959	12.0	742	43.0	1090	1620	4330	80.0	0	0	1900	84.0	1560	11461
1960	994	174	130	220	139	259	0	272	0	990	104	4450	7732
1961	4620	2400	645	220	22.0	3130	18.0	0	115	11.0	1890	757	13828
1962	25.0	533	113	1520	167	791	.20	0	52.0	0	0	0	3201
1963	0	0	0	44.0	4.20	3.00	0	0	0	0	0	0	51.2
1964	.20	0	11.0	0	0	0	0	0	77.0	0	0	0	88.2
1965	113	341	755	482	6110	249	0	0	18.0	.04	154	24.0	8246
1966	16.0	401	38.0	6760	2330	2.50	0	87.0	568	14.0	0	0	10217
1967	0	0	.20	684	124	1560	0	0	659	1690	2700	1740	9157
1968	1860	996	1620	3280	6040	4050	441	17.0	0	0	54.0	78.0	18436
1969	2490	369	998	2090	1860	1.90	0	0	0	109	29.0	863	6323
1970	272	1340	2680	82.0	13.0	.80	0	0	1490	116	12.0	3.80	6010
1971	4.90	9.1	2.50	11.0	3.90	0	0	17.0	12.0	54.0	109	2200	2423
1972	.930	100	9.00	25.0	5.00	3.00	63.0	0	0	-	-	-	-
MAX	4620	2400	2680	9850	6110	4330	441	2300	1490	1900	2700	4450	18436
MIN	0	0	0	0	0	0	0	0	0	0	0	0	51.2
MEAN	560	491	490	1663	1449	985	37.6	168	215	352	454	733	7598
NO.	16	16	16	16	16	16	16	16	17	16	16	16	15
DISTR													
OF MEAN	7.4%	6.5%	6.4%	21.9%	19.1%	13.0%	.5%	2.2%	2.8%	4.6%	6.0%	9.6%	100%

TRINITY RIVER BASIN

08063500 Richland Creek near Richland, Texas

LOCATION: Lat 31°57'00", long 96°25'17", Navarro County, at the bridge on U.S. Highway 75, 800 ft (240 m) downstream from the Texas and New Orleans Railroad Co. bridge, 1.0 mi (1.6 km) north of Richland, and 3.5 mi (5.6 km) downstream from Pin Oak Creek.

DRAINAGE AREA: 734 mi² (1,901 km²).

PERIOD OF RECORD: April 1939 to December 1975.

GAGE: Water-stage recorder with a low-water concrete control. Datum of gage is 299.12 ft (91.172 m) above mean sea level, datum of 1929. Dec. 11, 1924 to Feb. 11, 1925, nonrecording gage at site 800 ft (240 m) upstream. Mar. 17, 1939 to Feb. 14, 1958, water-stage recorder at site 50 ft (15 m) upstream. Feb. 15, 1958 to Jan. 28, 1959, nonrecording gage at present site. June 8, 1955 to Feb. 14, 1958, and since Feb. 6, 1959, supplementary water-stage recorder in the overflow channel 3,900 ft (1,190 m) to the right of the main channel gage. All gages at present datum.

AVERAGE DISCHARGE: 37 years, 281,215 ac-ft/yr (346.7 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 58,900 ft³/s (1,670 m³/s) May 12, 1948 (gage height, 24.18 ft or 7.384 m); no flow at times.

Maximum stage since at least 1899, 25.5 ft (7.77 m) in December 1913 (discharge not determined), from information by the Texas and New Orleans Railroad Co.

REMARKS: Records good. Since October 1962, the flow is partly regulated by Navarro Mills Lake (station 08063050) located 25 mi (40 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	2830	12010	98140	2170	.40	0	0	0	0	-
1940	0	1740	91.0	42530	4840	9730	31760	108	0	0	175800	74070	340669
1941	25240	107400	71030	36240	71120	93440	88020	2340	460	7440	1090	3120	506940
1942	1950	1990	2730	241200	21590	19880	1180	1630	71660	15180	20310	28750	427550
1943	7820	2020	2020	25790	128400	20950	591	46.0	785	35490	137	3600	245869
1944	44310	87550	29720	16030	251400	20300	954	22.0	0	18.0	3590	33020	486914
1945	67070	87060	222900	122400	5640	36740	67830	7570	3510	50820	9190	25450	706180
1946	33970	68840	32070	14570	192400	19740	1160	1720	228	360	25580	14020	404658
1947	114800	10650	72820	54540	35180	7830	96.0	5.40	156	.80	0	5.33	276611
1948	2000	6470	39960	6950	147000	1540	5290	14.0	0	0	0	0	209224
1949	2650	3710	10840	10050	13740	5430	4610	632	0	5540	21.0	0	56623
1950	4130	72960	3268	37460	14530	2540	2050	1.20	457	1.00	0	0	137389
1951	247	3200	219	306	4030	21790	35.0	0	9690	0	0	0	39517
1952	0	3870	6908	46480	45020	1100	254	0	0	0	4260	24060	131944
1953	8330	1610	67390	13750	189700	747	1040	0	3280	6400	1180	17290	310717
1954	9930	144	64.0	545	22810	41.0	0	16.0	0	352	1240	32.0	35174
1955	1010	10710	10640	3630	6170	7620	571	1850	1440	554	0	0	44195
1956	1560	13360	1.40	49.0	62300	5360	21.0	0	0	0	12690	968	96329
1957	574	15860	19390	393700	147400	36730	362	0	0	27230	66060	4590	711896
1958	12570	6380	10290	26470	176800	1180	4670	11630	19900	6300	51.0	2000	278241
1959	813	20820	2400	38250	70600	125300	4370	459	802	56540	5220	45410	370984
1960	86780	14190	8300	5430	12000	13310	885	2560	4.00	8610	3480	143600	299149
1961	179600	102100	52760	7570	3270	53620	37130	1040	2920	2410	51590	23280	517290
1962	3460	11300	5030	30570	7090	30040	2920	0	2650	27820	3800	1880	126560
1963	1210	513	366	9670	2470	190	0	0	0	0	0	0	14419
1964	235	422	510	57.0	64.0	1.20	0	0	0	0	0	0	1289
1965	1420	7080	13490	6500	139300	26760	991	1150	1580	1160	2830	1500	203761
1966	1450	12470	2140	173700	74470	72530	938	3040	2700	524	506	6.27	345095
1967	594	504	576	4520	998	28610	555	388	38960	50290	116900	65280	308175
1968	64780	50490	58570	101800	178800	110700	50630	186	60.0	12.0	427	4760	621215
1969	1640	25150	55010	68450	116600	42350	236	8.50	21.0	785	2260	21630	334141
1970	4730	29710	121500	6850	2040	321	.30	56.0	4680	5800	6200	5.75	182462
1971	30.0	25.0	47.0	308	2530	1890	268	45.0	406	3180	10540	92330	111599
1972	60470	6020	985	.107	230	244	870	70.0	63.0	6080	1620	2780	79539
1973	28910	24940	51400	82130	63910	88550	45000	2540	708	62130	19020	10780	480018
1974	21200	10180	6980	331	4190	256	413	3140	52260	21000	168200	83670	371820
1975	22930	70580	15620	75070	114000	92200	6090	603	714	877	905	366	399955
MAX	179600	107400	222900	393700	251400	125300	88020	11630	71660	62130	175800	143600	711896
MIN	0	25.0	1.40	49.0	64.0	1.20	0	0	0	0	0	0	1289
MEAN	22720	24778	28207	46131	62828	29688	9842	1159	5948	10889	19316	19729	281215
NO.	36	36	36	37	37	37	37	37	37	37	37	37	36
DISTR													
OF MEAN	8.1%	8.8%	10.0%	16.4%	22.3%	10.5%	3.5%	.4%	2.1%	3.9%	6.9%	7.0%	100%

TRINITY RIVER BASIN

08063700 Bardwell Lake near Ennis, Texas

LOCATION: Lat 32°16'00", long 96°38'49", Ellis County, in the intake structure of Bardwell Dam on Waxahachie Creek, 5 mi (8 km) south of Ennis, and 6.6 mi (9.0 km) upstream from the mouth.

DRAINAGE AREA: 178 mi² (461 km²).

PERIOD OF RECORD: November 1965 to December 1976. Prior to October 1970, published as "Bardwell Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Apr. 25, 1966, nonrecording gage in the intake structure at same datum.

EXTREMES: Period of record (1965-76): Maximum contents, 193,300 ac-ft (127.4 hm³) May 19, 1969 (elevation, 432.35 ft or 131.780 m); minimum contents since the initial filling, 45,840 ac-ft (66.5 hm³) Sept. 4, 1967 (elevation, 418.35 ft or 127.513 m).

REMARKS: The lake is formed by a rolled earthfill dam 15,400 ft (4,690 m) long, including a 350-foot (107-m) uncontrolled off-channel concrete gravity spillway with an ogee weir section. The capacity of the lake is 54,900 ac-ft (67.7 hm³). Deliberate impoundment began on Nov. 20, 1965 and the dam was completed on Mar. 27, 1968. The controlled low-flow outlet works consist of a 10.0-foot diameter (3.0-m) concrete conduit with two 5.0- by 10.0-foot (1.5- by 3.0-m) sluice gates. The lake was built for flood control and water conservation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1965	-	-	-	-	-	-	-	-	-	-	1510	1870
1966	2430	4060	5400	44270	80090	54800	53850	52900	52760	51320	50600	50330
1967	50060	49520	49140	49650	49650	48970	48190	46130	47470	63820	55010	55740
1968	57840	56210	55770	55410	73210	58210	55010	53250	52930	52400	54340	54980
1969	54480	55960	70500	54230	77010	54270	51770	49790	49450	50160	49820	52330
1970	53810	64130	53810	78770	55230	54690	52300	50640	51380	65720	55920	54940
1971	54870	55990	55050	56500	55450	53950	52930	52900	51520	68220	56030	64330
1972	55410	54650	54650	54650	54160	53460	51630	49680	49350	50190	51450	52400
1973	56240	54800	55120	99440	55050	56930	58350	54580	59090	59660	55010	54940
1974	56210	55160	54690	54370	54370	52760	50230	49990	50910	69130	58390	54900
1975	55260	54790	55870	55870	83840	54900	55260	53270	51800	50350	49400	49570
MAX	57840	64130	70500	99440	83840	58210	58350	54580	59090	69130	58390	64330
MIN	2430	4060	5400	44270	49650	48970	48190	46130	47470	50160	1510	1870
MEAN	49661	50527	51000	60316	63806	54294	52952	51313	51666	58097	48862	49666
NO.	10	10	10	10	10	10	10	10	10	10	11	11
DISTR OF MEAN	7.7%	7.9%	7.9%	9.4%	9.9%	8.5%	8.2%	8.0%	8.0%	9.0%	7.6%	7.7%

TRINITY RIVER BASIN

08063800 Waxahachie Creek near Bardwell, Texas

LOCATION: Lat 32° 14' 36", long 96° 38' 24", Ellis County, 0.8 mi (1.3 km) downstream from Bardwell Dam, 3.6 mi (5.8 km) southeast of Bardwell, 3.3 mi (6.1 km) downstream from the bridge on State Highway 34, and 4.1 mi (6.6 km) upstream from the mouth.

DRAINAGE AREA: 178 mi² (461 km²).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 370.18 ft (112.831 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 58,541 ac-ft/yr (72.2 km³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 2,980 ft³/s (83.8 m³/s) Feb. 8, 1966 (gage height, 17.55 ft or 5.35 m); no flow at times most years.

Maximum stage since at least 1944, about 23 ft (7.0 m) in 1944 and 1945, from information by the Corps of Engineers.

REMARKS: Records good. The flow is regulated by Bardwell Lake (station 08063700) located 0.8 mi (1.3 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	0	9.9	-
1964	104	209	592	1750	1480	782	2.60	0	390	36.0	3230	1240	9816
1965	2130	12070	3430	1630	16120	2010	246	5.40	19.0	1.80	80.0	1.60	37744
1966	4.60	7.20	14.0	813	6480	22690	0	0	0	0	9.3	3.20	30021
1967	1.30	1.20	1.50	11.0	10.0	.20	2.40	0	5.20	829	18140	8310	27312
1968	15650	12600	22530	13770	12100	26420	3550	0	0	0	40.0	3030	109690
1969	1270	3890	9180	26950	32670	24420	4.10	0	1.20	22.0	.90	48.0	98456
1970	5.70	3020	34340	442	22390	15.0	21.0	100	35.0	185	10180	1700	72434
1971	128	59.0	475	14.0	1470	261	3.30	2.60	12.0	2520	11980	19150	36075
1972	20360	2160	128	52.0	12.0	5.00	3.00	25.0	37.0	56.0	4.00	7.00	22849
1973	5680	8910	16280	5490	50840	14280	3560	4420	13.0	18390	9920	2880	140663
1974	5730	3300	1430	89.0	5330	70.0	175	154	97.0	305	23830	8430	48940
1975	4200	20900	3890	13150	6750	28300	1380	522	162	168	106	91.0	79619
MAX	20360	20900	34340	26950	50840	28300	3560	4420	390	18390	23830	19150	140663
MIN	1.30	1.20	1.50	11.0	10.0	.20	0	0	0	0	0	1.60	9816
MEAN	4605	5594	7691	5347	12971	9938	746	436	64.3	1732	5963	3454	58541
NO.	12	12	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	7.9%	9.6%	13.1%	9.1%	22.2%	17.0%	1.3%	.7%	.1%	3.0%	10.2%	5.9%	100%

TRINITY RIVER BASIN

08064000 Chambers Creek near Emhouse, Texas

LOCATION: Lat 32°13', Long 96°37', Navarro County, at the Ennis-Gorsicana Highway bridge, 200 ft (61.0 m) below its confluence with Waxahachie Creek, and 4 mi (6.4 km) north of Emhouse.

DRAINAGE AREA: 818 mi² (2,118.6 km²).

PERIOD OF RECORD: March and June 1925 only.

GAGE: Chain gage. Datum of gage is 420 ft (128.0 m) above mean sea level.

REMARKS: There is some regulation at extremely low stages from a dam on Waxahachie Creek located 10 mi (16.1 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1925	-	-	58.1	-	-	0	-	-	-	-	-	-	-
MAX	-	-	58.1	-	-	0	-	-	-	-	-	-	-
MIN	-	-	58.1	-	-	0	-	-	-	-	-	-	-
MEAN	-	-	58.1	-	-	0	-	-	-	-	-	-	58.6
NO.	0	0	1	0	0	1	0	0	0	0	0	0	0
DISTR OF MEAN	.0%	.0%	****%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	100%

TRINITY RIVER BASIN

08064500 Chambers Creek near Corsicana, Texas

LOCATION: Lat 32°06'29", long 96°22'14", Navarro County, at the bridge on State Highway 31, 430 ft (131 m) upstream from the St. Louis-Southwestern Railway Co. bridge, 6,000 ft (1,829 m) upstream from the City of Corsicana diversion dam, and 5.3 mi (8.5 km) east of Corsicana.

DRAINAGE AREA: 963 mi² (2,494 km²).

PERIOD OF RECORD: April 1939 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 294.28 ft (89.896 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 329,200 ac-ft/yr (406.9 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 48,000 ft³/s (1,360 m³/s) May 3, 1944; maximum gage height, 28.10 ft (8.565 m) May 3, 1956; no flow at times.

Maximum stage since at least 1870, 30 ft (9.1 m) Aug. 27, 1887, from information by local residents.

REMARKS: Records good. The flow is partly regulated by Bardwell Lake (station 08063700) since November 1966.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	6360	10890	84040	3890	97.0	2.00	0	5.40	3.60	-
1940	22.0	4780	784	73930	36000	56550	86640	1350	15.0	40.0	122300	96980	479391
1941	34150	133200	67420	46220	78490	101800	57630	12380	710	17870	5170	12790	567830
1942	4170	10050	12220	365900	104800	61480	3750	21150	76920	56080	26830	35880	779230
1943	11540	4770	33180	31470	86670	44180	2210	42.0	68990	19600	412	4160	307224
1944	27580	82630	34540	14450	268300	36920	5440	222	321	758	6860	53720	531741
1945	60230	123900	255300	138000	11440	148100	47250	2010	453	17070	10800	1850	816403
1946	26810	84820	29330	14400	69960	49960	1830	10790	1880	769	45330	20020	355899
1947	46430	870	29710	49250	8020	65210	981	4970	10820	709	3520	38910	267000
1948	24240	29150	26200	16420	103800	7500	13670	9.1	0	0	108	165	221282
1949	14640	60690	29210	23280	33210	13800	1190	671	0	2010	146	89.0	178936
1950	3150	98350	6920	42870	58540	4560	4170	308	711	6.50	0	0	219586
1951	628	4300	202	349	4170	48740	243	0	0	17.0	0	0	58649
1952	0	1400	1600	101700	59770	1850	51.0	0	0	0	12310	37590	216271
1953	8660	1470	26340	10670	93740	400	1080	52.0	85.0	1160	609	4400	148666
1954	3040	346	23.0	700	13500	16.0	0	0	0	1840	2860	0	22325
1955	2.60	3850	6820	7300	9720	9530	0	5590	9010	130	0	0	51953
1956	926	9260	32.0	444	15610	3340	0	555	123	355	11570	776	42991
1957	1400	8220	5400	254600	206600	32920	490	145	702	43170	117500	9060	680207
1958	19820	8120	34740	94040	253400	2260	6430	4930	89580	6280	3190	4570	527360
1959	1790	30590	6800	34620	104100	119300	11720	1310	584	85580	7440	75650	479484
1960	106400	23950	12000	5030	6360	4040	372	6610	63.0	1860	440	119900	287025
1961	140500	111900	62720	12700	6560	80440	17420	594	1650	4160	36930	35170	510744
1962	8370	10880	5840	13420	9580	19770	3280	29.0	8490	26790	6160	7560	120169
1963	4150	1720	3350	11940	18590	1840	82.0	0	0	0	0	0	41672
1964	92.0	293	2730	6600	3270	1110	0	0	651	179	12340	1460	28725
1965	6540	55920	10960	4890	154800	6190	292	0	10.0	1.20	1750	372	241725
1966	429	3940	2730	183200	118900	24430	195	1660	3280	2280	2.10	22.0	341068
1967	75.0	88.0	65.0	1950	2830	9160	6160	.20	12360	87440	78670	44040	242838
1968	75850	45010	100600	66300	179800	63450	6950	263	289	1840	3670	14560	558582
1969	3170	24680	70620	40930	290100	26720	126	0	7.50	2030	859	10110	469353
1970	3620	36000	131200	44660	36990	13100	324	2.20	1640	55140	17710	3020	343406
1971	954	3210	2310	8030	3610	488	640	2080	6.50	56090	21330	136400	235149
1972	70330	8010	1970	2020	1880	216	337	79.0	233	9410	8550	2210	105245
1973	38370	28820	61600	204100	78680	156700	16000	6870	18250	64050	23300	11040	707780
1974	24300	9780	4360	2240	25540	1640	79.0	1690	10660	18350	186900	30690	316229
1975	21480	109600	28670	89620	157300	72090	5350	1190	1090	241	196	418	487245
MAX	140500	133200	255300	365900	290100	156700	86640	21150	89580	87440	186900	136400	816403
MIN	0	88.0	23.0	349	1880	16.0	0	0	0	0	0	0	22325
MEAN	22052	32838	30792	54719	73663	37131	8278	2369	8637	15765	20967	21989	329200
NO.	36	36	36	37	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	6.7%	10.0%	9.4%	16.6%	22.4%	11.3%	2.5%	.7%	2.6%	4.8%	6.4%	6.7%	100%

TRINITY RIVER BASIN

08064600 Richland Creek near Fairfield, Texas

LOCATION: Lat 31°57'05", long 96°05'52", Freestone County, at the bridge on Farm Road 468, 5.8 mi (9.3 km) upstream from the mouth, 9.0 mi (14.5 km) downstream from Chambers Creek, and 16 mi (26 km) north of Fairfield.

DRAINAGE AREA: 1,967 mi² (5,069 km²).

PERIOD OF RECORD: March 1972 to December 1975.

GAGE: Nonrecording gage. Datum of gage is 230.83 ft (70.357 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1972-75): Maximum discharge, 29,500 ft³/s (835 m³/s) Apr. 26, 1973 (gage height, 28.76 ft or 8.766 m); minimum daily, 0.02 ft³/s (0.001 m³/s) July 26 and Aug. 26 to Sept. 2, 1972.

Flood in December 1971 reached a stage of 31.5 ft (9.60 m) from floodmark.

REMARKS: Records good except during periods of backwater caused by high flows of the Trinity River. The flow is partly regulated by Navarro Mills Lake and Bardwell Lake (stations 08063060 and 08063700) on Waxahachie Creek.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	-	-	3360	1480	3760	1610	1850	195	1090	22520	12620	8100	-
1973	61610	67560	167600	263100	189000	273900	53210	10540	23560	138000	50610	26220	1324910
1974	48820	22280	13070	3670	34920	2740	798	4200	74800	13030	422400	133500	774228
1975	51180	206900	50260	168800	306100	203500	16450	2820	2170	1510	1500	1200	1012390
MAX	61610	206900	167600	263100	306100	273900	53210	10540	74800	138000	422400	133500	1324910
MIN	48820	22280	3360	1480	3760	1610	798	195	1090	1510	1500	1200	774228
MEAN	53870	98913	58573	109263	133495	120438	18077	4439	25405	43765	121783	42255	830226
NO.	3	3	4	4	4	4	4	4	4	4	4	4	3
DISTR OF MEAN	6.5%	11.9%	7.1%	13.2%	16.1%	14.5%	2.2%	.5%	3.1%	5.3%	14.7%	5.1%	100%

TRINITY RIVER BASIN

08064700 Tehuacana Creek near Streetman, Texas

LOCATION: Lat 31°50'54", long 96°17'23", Freestone County, at the bridge on U.S. Highway 75, 2.8 mi (4.5 km) southeast of Streetman, 3.1 mi (5.0 km) downstream from the Chicago, Rock Island, and Pacific Railroad Co. bridge, and 3.8 mi (6.1 km) upstream from Caney Creek.

DRAINAGE AREA: 142 mi² (368 km²).

PERIOD OF RECORD: April 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 287.88 ft (87.654 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 57,002 ac-ft/yr (70.3 km³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 23,100 ft³/s (654 m³/s) May 10, 1968 (gage height, 25.00 ft or 7.620 m); no flow at times most years.

Maximum stage since at least 1932, that of May 10, 1968.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	15630	32910	12550	337	11.4	36.3	3.80	560	1180	-
1969	1120	7210	19950	9120	7260	34.0	.50	.80	206	6010	14640	14640	65551
1970	2070	3400	3050	2750	54.0	39.0	.30	0	1450	5920	49.0	13.0	18795
1971	7.40	203	30.0	0	1.30	2.50	3.30	6.20	2930	4480	7550	23010	38224
1972	16320	442	165	22.0	22.0	638	458	3.00	4.00	698	825	3290	22887
1973	8050	1100	15020	17100	229	20090	490	.10	1430	23310	2380	3550	92749
1974	9150	3150	5580	363	1760	15.0	1.00	162	32560	5350	22100	8630	88821
1975	2840	14100	2620	3270	25450	617	146	4.90	9.6	22.0	13.0	160	49252
MAX	16320	14100	19950	17100	32910	20090	490	162	32560	23310	22100	23010	92749
MIN	7.40	203	30.0	0	1.30	2.50	.30	0	.80	3.80	13.0	13.0	18795
MEAN	5651	4229	6631	6032	8461	4248	180	23.4	4803	4999	4936	6809	57002
NO.	7	7	7	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	9.9%	7.4%	11.6%	10.6%	14.8%	7.5%	.3%	.0%	8.4%	8.8%	8.7%	11.9%	100%

TRINITY RIVER BASIN
08064900 Catfish Creek near Tennessee Colony, Texas

LOCATION: Lat 31°52'51", long 95°52'07", Anderson County, 47 ft (14 m) downstream from the bridge on U.S. Highway 287, 2 mi (3 km) upstream from Beaver Creek, 3.6 mi (5.6 km) northwest of Tennessee Colony, 12 mi (19 km) downstream from Coon Creek Lake, and 12 mi (19 km) upstream from the mouth.

DRAINAGE AREA: 207 mi² (536 km²).

PERIOD OF RECORD: May 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 234.93 ft (71.607 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 74,374 ac-ft/yr (91.7 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge 7,550 ft³/s (214 m³/s) May 11, 1968 (gage height, 15.90 ft or 4.846 m); minimum daily, 0.8 ft³/s (0.023 m³/s) Aug. 19-21, 1964.

Maximum stage since 1927, 22 ft (6.7 m) in June 1944 as a result of a dam failure at Coon Creek Lake, from information by local residents.

REMARKS: Records good. There is some regulation upstream by Coon Creek Lake. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	3780	2560	2260	283	1370	2510	2940	4200	-
1963	4290	3640	6060	2760	2250	1010	371	375	329	261	537	1810	23693
1964	2510	3510	6130	2830	1410	2280	391	89.0	215	288	343	1130	21126
1965	3450	9370	4960	6840	16570	2810	1090	404	350	399	1260	2690	50193
1966	3430	4030	3790	40730	21880	1330	311	2360	4090	2860	3100	3610	91521
1967	3790	3000	2930	9950	2340	2500	1090	988	1180	683	3310	7130	38891
1968	15510	13750	17420	18120	41450	8560	3450	1270	4170	1910	4790	10110	140510
1969	7460	14220	21430	24950	16940	2200	312	217	417	1120	5630	10860	105756
1970	7340	9070	14240	10530	2640	1440	619	610	1150	2850	2690	4030	57209
1971	3250	4140	3430	1930	1510	364	257	1020	1270	2420	4450	13090	37131
1972	13670	7830	4260	1930	1190	1490	755	494	325	3890	11040	10860	57734
1973	11400	12200	22410	31480	9540	32100	5070	2350	6480	11170	8650	14520	167370
1974	19510	13140	7190	5620	7020	2830	1250	1220	8990	3340	19050	13420	102580
1975	12680	21250	10770	11200	12500	6280	3540	1230	988	1470	2010	3600	87518
MAX	19510	21250	22410	40730	41450	32100	5070	2360	8990	11170	19050	14520	167370
MIN	2510	3000	2930	1930	1190	364	257	89.0	215	261	343	1130	21126
MEAN	8330	9365	9617	12990	10073	4840	1483	922	2237	2512	4986	7219	74374
NO.	13	13	13	13	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	11.2%	12.3%	12.9%	17.5%	13.5%	6.5%	2.0%	1.2%	3.0%	3.4%	6.7%	9.7%	100%

TRINITY RIVER BASIN
08065000 Trinity River near Oakwood, Texas

LOCATION: Lat 31°38'54", long 95°47'21", Anderson-Freestone County line, at the bridge on U.S. Highways 79 and 84, 1.5 mi (2.4 km) upstream from the Missouri-Pacific Railroad Co. bridge, and 6 mi (10 km) northeast of Oakwood.

DRAINAGE AREA: 12,833 mi² (33,237 km²).

PERIOD OF RECORD: October 1923 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 175.06 ft (53.358 m) above mean sea level, datum of 1929. Prior to July 15, 1932, nonrecording gage at site 1.5 mi (2.4 km) downstream at datum 1.06 ft (0.323 m) lower. July 15, 1932 to Oct. 7, 1934, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 53 years, 3,512,972 ac-ft/yr (4,331.5 hm³/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 153,000 ft³/s (4,330 m³/s) Apr. 29, 1942 (gage height, 51.84 ft or 15.740 m); minimum, 28 ft³/s (0.79 m³/s) Aug. 24, 1925.

Flood in May 1890 reached a stage of 53 ft or 16.2 m (discharge, about 180,000 ft³/s or 5,100 m³/s) and was the highest since that date, from information in local newspapers.

REMARKS: Records fair. There are twenty-one major reservoirs above the station with a combined capacity of 4,200,000 ac-ft (5,178.6 hm³), of which 1,362,000 ac-ft (1,679.3 hm³) is flood control, which partly regulate the flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	40800	71500	1290000	-
1924	385000	278000	985000	391000	326000	375000	5530	4780	95800	5230	5980	10300	2867620
1925	15100	12400	14900	16600	37000	9010	4560	3860	8200	94700	228000	9010	786340
1926	308000	39700	483000	600000	639000	284000	556000	253000	199000	87900	55500	381000	3886100
1927	332000	396000	762000	864000	594000	339000	166000	18200	14500	271000	22900	68900	3848500
1928	84900	225000	192000	409000	212000	403000	202000	80500	7440	8460	45400	467000	2334700
1929	426000	173000	357000	287000	848000	1350000	32600	7620	38300	36700	76800	264000	3899020
1930	68900	288000	122000	71400	2250000	334000	20600	4550	3740	221000	58100	511000	3953290
1931	139000	325000	453000	274000	247000	77400	27500	12700	12100	37700	43600	88500	1737500
1932	1540000	2020000	1170000	95200	513000	248000	271000	32300	369000	23700	22400	133000	6437600
1933	537000	110000	601000	232000	384000	390000	27600	84800	70800	22900	15300	30800	2506200
1934	170000	97200	439000	702000	162000	34000	8920	5750	12300	6090	53320	60170	1750750
1935	183300	238900	157000	173100	1697000	1214000	283100	60170	80060	117300	125800	473500	4811230
1936	82680	46780	36720	17740	298200	176500	116300	8560	39620	836400	264600	340800	2264900
1937	619400	173500	524100	162500	53100	89840	12040	36900	50670	30940	66660	301200	2120850
1938	946200	1156000	732400	1745000	223200	163100	50320	41920	17380	15970	13170	12260	5116920
1939	59320	149200	117400	246100	140200	278400	46630	12220	7860	7550	12690	9880	1089450
1940	10210	33180	22000	362500	417800	418400	642500	39390	17080	11630	644100	1121000	3739790
1941	731000	561800	793700	355000	894900	1722000	937200	129400	68770	217900	198000	171300	6780970
1942	99180	120500	118100	2575000	2474000	985200	148000	67310	266600	230100	251000	212700	7547690
1943	213300	84970	225300	596700	617200	742700	38840	14540	53600	205100	16680	42480	2851410
1944	270200	480500	759100	196800	2058000	486600	44930	23220	44200	32610	70920	25900	4726080
1945	590800	533600	2487000	2720000	266500	678800	675100	72920	52170	411100	141200	174200	8803390
1946	411000	759500	613700	228200	763900	1334000	49520	82660	127100	46680	1189000	604300	6209560
1947	445300	148100	392500	571000	222000	248400	97650	56740	148800	41660	84370	523300	2979820
1948	358800	328300	852600	135500	713800	89260	150000	39140	33140	26060	18700	23460	2766760
1949	140500	369300	677100	300300	481300	642100	72210	22430	25870	161400	140200	34790	3067500
1950	336500	1485000	184100	385200	1098000	218500	154800	216500	431300	103800	69850	37170	4720720
1951	49420	130300	60930	50860	114200	595500	73640	25040	38410	19920	19970	20250	1198440
1952	23090	39770	62430	327800	449400	205800	16650	10680	11530	8210	57240	216900	1429500
1953	127700	34270	354500	90030	1321000	26690	19320	13540	21550	25110	30960	10500	2169670
1954	113400	33780	19700	51240	196900	19730	13090	13460	8100	132800	93590	30350	726140
1955	52560	120400	129600	133000	114700	63720	18360	19790	31800	17520	9840	14480	723770
1956	25518	95430	17590	18920	262100	25840	7770	6210	6920	8060	70650	16880	561880
1957	24600	89230	116500	1243000	2587000	1996000	476900	399600	62620	379700	821500	235200	8431850
1958	297700	142300	312400	356500	2146000	349600	222400	92150	201700	81630	32620	42820	4277820
1959	33240	204200	95160	304100	691900	360000	164200	41070	24560	562200	108500	469200	3058330
1960	939700	362000	207300	74050	126700	61860	52170	55910	22700	55320	53040	95680	2967550
1961	1037000	685600	439000	276300	87820	356200	216600	31330	44030	41470	151300	257800	3626450
1962	95120	128500	122100	178600	265500	131900	144200	216200	438000	407200	109700	309200	2546220
1963	72300	41960	53900	60000	440000	119100	31890	24180	22090	18100	17310	22320	923150
1964	25500	37610	75540	96120	51770	85020	22470	29000	128400	283800	307700	453600	1596730
1965	182400	631200	350100	191700	1192000	409800	44120	28320	47360	32390	50770	40300	3200460
1966	35580	171200	78030	678200	2283000	552900	282700	72300	75980	77800	32060	38290	4378040
1967	35050	30690	39840	105200	90430	251700	89310	22280	148200	175700	492200	305600	1786200
1968	552600	423900	817500	1041800	1427000	597400	239000	88340	49490	43220	57110	129200	5465760
1969	51930	360600	855000	780000	1797000	612300	101200	37270	44900	54070	91100	178500	4963870
1970	201000	281800	1242000	440100	541700	211200	34110	40440	95130	225000	131300	56260	3500040
1971	42450	45550	84790	64470	49950	45090	37090	91740	37780	435200	317100	1442000	2693210
1972	951100	120900	52520	43400	80220	41380	31370	26780	25630	88110	125200	88030	1674640

TRINITY RIVER BASIN
08065000 Trinity River near Oakwood, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	236000	302600	692000	814800	980400	1277000	302000	166900	124300	876000	535600	370100	6677700
1974	475800	190600	126600	138700	388000	225000	37330	62450	366400	169300	1541000	1044000	4765180
1975	415400	1167000	486500	767100	752100	842500	213000	111000	40140	38420	38040	47240	4918440
MAX	1540000	2020000	2487000	2720000	2587000	1996000	937200	399600	438000	876000	1541000	1442000	8803390
MIN	10210	12400	14900	16600	49950	9010	4560	3860	3740	5230	5980	9010	561880
MEAN	299995	317400	406986	443078	719248	438393	148660	60732	85022	143521	175493	274444	3512972
NO. OF MEAN	52	52	52	52	52	52	52	52	52	53	53	53	52
DISTR OF MEAN	8.5%	9.0%	11.6%	12.6%	20.5%	12.5%	4.2%	1.7%	2.4%	4.1%	5.0%	7.8%	100%

TRINITY RIVER BASIN

08065200 Upper Keechi Creek near Oakwood, Texas

LOCATION: Lat 31°34'11", long 95°53'17", Leon County, 20 ft (6 m) downstream from the bridge on U.S. Highway 79, 1.9 mi (3.1 km) upstream from the Missouri-Pacific Railroad Co. bridge, 2 mi (3 km) southwest of Oakwood, 11 mi (18 km) upstream from Buffalo Creek, and 21 mi (34 km) upstream from the mouth.

DRAINAGE AREA: 150 mi² (388 km²).

PERIOD OF RECORD: May 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 240.11 ft (73.186 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 57,525 ac-ft/yr (70.9 hm³/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 24,000 ft³/s (680 m³/s) May 16, 1965 (gage height, 14.91 ft or 4.545 m) and Apr. 25, 1966; no flow at times.

Maximum stage since 1900, about 21 ft (6.4 m) in 1932, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	1080	1350	438	140	200	160	235	393	-
1963	450	699	625	502	123	290	60	0	0	0	0	220	2651
1964	248	476	1490	1890	343	133	0	0	237	120	166	790	5063
1965	1210	4000	19550	7200	86900	2220	540	97	40	0	640	919	122127
1966	980	1360	1380	3440	8200	134	810	2440	1750	409	281	623	51705
1967	539	473	688	3300	1700	855	165	0	549	850	252	1480	10086
1968	14860	3050	9690	21140	20480	6810	1560	320	1010	268	3410	7960	90270
1969	2570	14410	21930	27650	15720	260	570	50	190	551	2810	14540	100466
1970	3180	8360	8320	12670	684	196	98	40	386	1820	268	530	36224
1971	466	1500	694	501	1360	480	165	747	570	688	2180	17960	26364
1972	12780	1270	730	542	112	146	177	600	100	1950	2120	3170	23004
1973	12640	3920	28370	16670	1750	29650	642	430	1340	22790	9470	12040	139375
1974	22420	7730	5970	3110	5940	478	600	740	14620	5680	30510	7150	103742
1975	6140	17040	3730	6880	19060	3170	1980	329	171	1500	418	943	61361
MAX	22420	17040	28370	34140	66900	29650	1980	2440	14620	22790	30510	17960	139375
MIN	248	473	688	501	112	290	0	0	0	0	0	220	2651
MEAN	6037	4945	7951	10477	11675	3248	376	263	1439	2540	3727	4847	57525
NO.	13	13	13	13	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	10.5%	8.6%	13.8%	18.2%	20.3%	5.6%	.7%	.5%	2.5%	4.4%	6.5%	8.4%	100%

TRINITY RIVER BASIN

08065350 Trinity River near Crockett, Texas

LOCATION: Lat 31°20'09", long 95°39'27", Houston-Leon County line, 30 ft (9 m) downstream from the bridge on State Highway 7, 7.1 mi (11.4 km) downstream from Upper Koschi Creek, and 11.9 mi (19.1 km) west of Crockett.

DRAINAGE AREA: 13,911 mi² (36,029 km²).

PERIOD OF RECORD: January 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 136.69 ft (41.633 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 4,274,823 ac-ft/yr (5,270.8 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 78,000 ft³/s (2,210 m³/s) May 15, 1969 (gage height, 62.24 ft or 15.023 m); minimum, 275 ft³/s (7.79 m³/s) Aug. 13, 1964.

Maximum stage since at least 1900, 56.1 ft (17.10 m) Apr. 30 or May 1, 1942, from information by the State Highway Department.

REMARKS: Records fair. For statement regarding regulation by upstream reservoirs, see Trinity River near Oakwood (station 08065000). The flow is also affected by Houston County Lake near Crockett (capacity, 19,500 ac-ft or 24.0 hm³). There are several diversions above the station for irrigation, municipal, and industrial uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	31600	47390	95980	116600	63020	94590	22990	28420	106900	300700	298600	449700	1656490
1965	186800	674500	379600	280700	1522000	521200	63690	37560	50670	36520	58150	66570	3877960
1966	63530	199700	94530	567800	2728000	575500	297500	95010	91130	82260	36840	44180	4875980
1967	44200	37200	44910	117400	96880	247200	94450	25410	143300	163400	531000	322100	1867450
1968	605600	470600	860700	1221000	1483000	664200	295100	97600	60200	49870	76250	201100	6085220
1969	78800	406800	970800	1038000	1906000	663300	116600	40360	48030	58120	104400	194600	5625810
1970	221900	273000	1333000	519800	581400	229400	34730	40300	89370	193600	143400	58970	3718870
1971	50190	65260	102600	76440	57770	48910	35010	105400	41030	395300	399700	1535000	2912610
1972	1119000	170300	72990	55370	101300	56950	37490	29870	30510	105000	178700	118800	2076280
1973	285600	370300	827200	758800	1237000	1350000	349300	186300	127000	1035000	628900	468000	7623400
1974	674300	253200	166400	163800	452800	242400	45670	73960	412500	176700	1553000	1233000	5447730
1975	490100	1294000	541700	840600	831700	961500	232500	131300	51710	52470	45500	56980	5530060
MAX	1119000	1294000	1333000	1221000	2728000	1350000	349300	186300	412500	1035000	1553000	1555000	7623400
MIN	31600	37200	44910	55370	57770	48910	22990	25410	30510	36520	36840	44180	1656490
MEAN	320968	355188	457534	479693	921739	471263	135419	74291	104363	220745	337870	395750	4274823
NO.	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTR													
OF MEAN	7.5%	8.3%	10.7%	11.2%	21.6%	11.0%	3.2%	1.7%	2.4%	5.2%	7.9%	9.3%	100%

TRINITY RIVER BASIN
08065500 Trinity River near Midway, Texas

LOCATION: Lat 31°04'38", long 95°41'57". Madison-Houston County line, at the bridge on State Highway 21, 4.7 mi (7.6 km) northeast of Midway, 8.0 mi (12.9 km) downstream from Boggy Creek, and 22.3 mi (35.9 km) upstream from Bedias Creek.

DRAINAGE AREA: 14,450 mi² (37,425.5 km²).

PERIOD OF RECORD: April 1939 to October 1970.

GAGE: Nonrecording gage. Datum of gage is 118.05 ft (36.0 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 32 years, 4,137,925 ac-ft/yr (5,102.1 hm³/yr).

EXTREMES: Period of record (1939-70): Maximum discharge, 156,000 ft³/s (4,417.9 m³/s) May 1, 1942 (gage height, 48.58 ft or 14.8 m); minimum observed, 87 ft³/s (2.5 m³/s) July 27, 1956.

Maximum stage since at least 1866 and prior to the construction of levees in 1916, 45 ft (13.7 m) in May 1890. Floods in 1866 and June 9, 1808 were about the same stage, from information by local residents.

REMARKS: Records good. There are many diversions above the station for municipal, industrial, and irrigation uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	275 900	181 900	287 200	632 400	144 100	97 400	97 200	16 900	518 000	-
1940	213 600	105 500	295 800	485 800	468 800	442 600	742 200	440 500	219 900	147 700	641 600	171 200	4650 250
1941	1022 000	643 800	977 000	349 000	954 600	141 200	138 200	146 100	86 430	274 200	358 600	216 300	7822 330
1942	134 300	149 300	143 200	1686 000	342 400	129 200	225 600	702 900	27 900	233 200	268 800	197 000	8103 290
1943	295 700	976 900	191 900	661 400	600 400	76 250	51 350	188 300	58 080	205 900	25 790	654 300	3034 970
1944	411 500	56 980	881 800	252 600	2477 000	579 800	522 700	318 000	566 500	345 700	118 100	4042 000	5870 090
1945	883 100	474 200	260 400	3237 000	465 900	667 300	742 900	126 600	73 660	454 000	158 500	2452 000	10132 360
1946	543 500	886 800	881 000	293 800	928 400	148 000	774 900	61 090	16 140	53 370	1209 000	664 900	7240 750
1947	593 400	186 600	587 400	588 600	455 600	24 550	15 550	51 410	16 580	50 380	103 100	497 000	3680 290
1948	351 800	379 700	868 800	189 600	705 600	100 100	15 300	41 540	34 380	292 200	252 000	355 500	2914 490
1949	129 100	380 300	745 900	316 800	356 200	692 200	97 380	29 210	32 570	260 300	171 300	729 800	3284 240
1950	390 100	1504 000	346 700	442 400	1034 000	318 900	1684 000	197 500	35 710	123 500	65 380	446 600	4982 640
1951	56 410	131 100	909 400	62 890	117 300	547 400	866 300	26 800	46 860	22 700	25 860	336 000	1248 490
1952	377 100	867 100	103 700	307 000	51 370	265 200	218 300	12 920	12 700	11 280	42 720	230 200	1645 670
1953	1488 000	596 000	441 500	130 300	152 400	103 800	228 900	177 900	23 460	23 370	38 080	1574 000	2690 990
1954	121 500	50 480	29 760	62 090	222 500	24 120	12 680	14 890	8 770	130 300	115 700	435 900	836 380
1955	78 950	196 100	136 000	210 600	128 500	74 840	194 300	221 900	28 750	21 990	12 000	198 000	949 150
1956	332 800	119 100	292 000	48 190	296 000	30 350	86 900	6 950	8 660	100 100	71 160	194 100	681 000
1957	285 100	960 300	1345 000	834 700	325 800	234 200	485 600	445 800	8 300	722 500	832 600	3006 000	9563 840
1958	384 100	195 200	36 170	377 800	230 400	401 400	240 400	99 960	31 250	119 000	53 240	679 700	4917 270
1959	547 300	303 300	1305 000	507 200	857 200	398 500	276 100	66 390	308 400	607 400	152 200	5605 000	3944 860
1960	1051 000	456 500	294 700	90 180	155 500	84 570	77 360	64 660	29 380	82 570	155 100	11 330 000	3674 520
1961	1405 000	862 200	526 000	376 200	104 700	41 340	289 600	43 070	9 855 000	56 500	162 000	3992 000	4733 020
1962	203 400	1785 000	176 000	194 900	359 700	144 300	144 300	230 800	41 200	45 150	108 400	3435 000	2947 300
1963	926 500	708 100	712 300	70 410	464 100	138 100	35 760	24 730	23 790	19 030	20 080	290 800	1059 770
1964	341 900	488 500	102 000	113 400	676 200	944 300	21 930	284 300	10 070	314 700	301 500	482 600	1710 350
1965	200 900	671 900	391 400	304 900	153 200	643 900	747 300	42 060	52 380	38 240	60 970	783 600	4091 740
1966	739 200	216 700	976 500	549 300	294 000	612 300	32 100	104 700	95 400	80 710	34 750	424 100	5168 840
1967	444 400	374 700	446 500	127 700	94 020	25 180	10 120	29 200	14 770	17 110	53 770	330 200	1917 180
1968	617 800	512 000	891 100	1350 000	157 300	766 900	324 400	106 700	67 370	58 430	87 180	2306 000	6585 480
1969	81 980	451 400	1090 000	1257 000	199 100	689 100	125 600	40 540	47 480	60 520	107 000	207 100	6148 720
1970	243 800	270 800	1342 000	544 400	610 200	241 000	43 120	50 570	97 180	220 280	-	-	-
MAX	1405 000	1504 000	2604 000	3237 000	3424 000	2342 000	1382 000	445 800	41 200	722 500	1209 000	1712 000	10132 360
MIN	213 600	374 700	292 000	48 190	676 200	24 120	86 900	6 950	8 660	9 720	12 000	194 100	681 000
MEAN	315 127	335 240	475 433	506 814	973 920	517 110	207 331	72 249	95 758	155 162	196 145	2876 37	4137 926
NO.	31	31	31	32	32	32	32	32	32	32	31	31	30
DISTR OF MEAN	7.6%	8.1%	11.5%	12.2%	23.5%	12.5%	5.0%	1.7%	2.3%	3.7%	4.7%	7.0%	100%

TRINITY RIVER BASIN

08065700 Caney Creek near Madisonville, Texas

LOCATION: Lat 30°56'12", long 95°56'07", Madison County, at the bridge on U.S. Highway 190, 0.2 mi (0.3 km) downstream from Mustang Creek, 1.5 mi (2.4 km) southwest of Madisonville, and 13.2 mi (21.2 km) upstream from Bedias Creek.

DRAINAGE AREA: 112 mi² (290 km²).

PERIOD OF RECORD: July 1963 to December 1975.

GAGE: Water stage recorder. Datum of gage is 213.74 ft (66.146 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 46,364 ac-ft/yr (57.2 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 15,000 ft³/s (425 m³/s) Apr. 12, 1969 (gage height, 17.76 ft or 5.413 m); no flow at times each year.

Maximum stages since 1900, 22 ft (6.7 m) in 1929 and 21.4 ft (6.52 m) in November 1946, from information by local residents.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	0	0	0	0	0	261	-
1964	124	253	1160	1140	1400	80.0	0	3510	313	2810	3790	1140	15720
1965	1230	15010	1020	1450	6400	337	.40	0	0	0	2540	7340	35327
1966	5780	8430	755	31130	4900	37.0	0	22.0	516	.10	0	1.30	51571
1967	4.40	6.00	9.6	1500	390	28.0	0	369	21.0	.20	0	.06	2328
1968	7140	217	2440	22550	14100	41520	745	36.0	4.10	0	4580	8980	102312
1969	1740	11080	16620	27360	15120	56.0	.30	0	0	0	0	710	72686
1970	1490	1230	7190	9330	2880	80.0	1.70	0	15.0	2930	41.0	25.0	25213
1971	9.00	3.00	7.90	.60	45.0	9.4	0	0	0	586	86.0	2000	2747
1972	3220	236	86.0	41.0	0	0	125	1110	0	772	2170	741	8501
1973	11100	2750	19390	11450	13880	9460	46.0	0	7250	34240	4010	4170	117746
1974	21910	703	358	290	1900	1010	0	10290	23240	923	14880	4360	79864
1975	6520	22110	798	3470	19080	1490	243	73.0	1.60	0	0	.90	53786
MAX	21910	22110	19390	31130	19080	41520	745	10290	23240	34240	14880	8980	117746
MIN	4.40	3.00	7.90	.60	0	0	0	0	0	0	0	.06	2328
MEAN	5022	5169	4153	9143	6675	4509	89.3	1185	2412	3251	2469	2287	46364
NO.	12	12	12	12	12	12	13	13	13	13	13	13	12
DISYR OF MEAN	10.8%	11.1%	9.0%	19.7%	14.4%	9.7%	.2%	2.6%	5.2%	7.0%	5.3%	4.9%	100%

TRINITY RIVER BASIN
08065800 Bedias Creek near Madisonville, Texas

LOCATION: Lat 30°53'03", Long 95°46'39", Madison Walker County line, at the bridge on U.S. Highways 75 and 190, 0.5 mi (0.8 km) upstream from the bridge on Interstate Highway 45, 1.5 mi (2.4 km) downstream from Caney Creek, and 8.6 mi (15.3 km) southeast of Madisonville.

DRAINAGE AREA: 321 mi² (831 km²).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 160.00 ft (48.720 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 175,282 ac-ft/yr (216.1 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 33,800 ft³/s (957 m³/s) Sept. 14, 1974 (gage height, 26.07 ft or 7.641 m); no flow at times.

Maximum stage since at least 1910, 34 ft (10.4 m) in May 1922 (discharge unknown), from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	12.0	27.0	13.0	-
1968	21710	567	7750	72020	39090	103800	2260	79.0	4.70	972	16650	33950	298853
1969	3640	35370	49070	79320	64310	170	2.10	0	0	125	1480	8660	242147
1970	11450	8970	41180	21170	2230	196	14.0	0	2970	22470	316	95.0	111061
1971	122	301	193	234	5860	144	10.0	675	2.50	3290	1050	13440	25322
1972	10950	7000	1240	381	415	106	536	2250	39.0	3320	6860	4210	37307
1973	34180	12600	55870	37070	24660	29580	468	542	25930	96660	13360	21540	352460
1974	51760	2230	892	859	7150	3520	26.0	13280	92320	1800	39060	16490	229387
1975	22190	41510	1600	2690	55420	9660	3550	2690	238	43.0	33.0	33.0	139657
MAX	51760	41510	55870	79320	64310	103800	3550	13280	92320	96660	39060	33950	352460
MIN	122	301	193	234	415	106	2.10	0	0	12.0	27.0	13.0	25322
MEAN	19500	13569	19724	26718	24892	18397	858	2440	15188	14299	8760	10937	175282
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR OF MEAN	11.1%	7.7%	11.3%	15.2%	14.2%	10.5%	.5%	1.4%	8.7%	8.2%	5.0%	6.2%	100%

TRINITY RIVER BASIN
08066000 Trinity River at Riverside, Texas

LOCATION: Lat 30°51'35", long 95°23'54". Trinity-Walker County line, at the bridge on State Highway 19, 1,200 ft (365.8 m) upstream from the Missouri-Pacific Railroad Co. bridge, 0.5 mi (0.8 km) north of Riverside, and 0.75 mi (1.2 km) downstream from Harroon Creek.

DRAINAGE AREA: 15,589 mi² (40,375.5 km²).

PERIOD OF RECORD: January 1903 to December 1906, October 1923 to September 1968.

GAGE: Wire-weight gage. Datum of gage is 89.86 ft (27.4 m) above mean sea level, datum of 1929, Galveston-Houston supplementary adjustment of 1936.

AVERAGE DISCHARGE: 50 years (1903-06, 1923-68), 4,660,219 ac-ft/yr (5,746.0 hm³/yr).

EXTREMES: Period of record (1903-06, 1923-68): Maximum discharge, 121,000 ft³/s (3,426.7 m³/s) May 5, 1942 (gage height, 52.75 ft or 16.1 m, from floodmark); minimum, 70 ft³/s (2.0 m³/s) August 20-26, September 8-13, 1925, and September 29 to October 4, 1931.

Maximum stage since at least 1866, that of May 5, 1942.

REMARKS: Records good. There are many diversions above the station for municipal, industrial, and irrigation uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1903	441300	816000	2332000	708900	91540	93720	497900	405400	20650	306100	47170	88030	5848710
1904	34440	170500	92630	416200	646000	359200	88350	45370	62910	6080	16990	75440	2014110
1905	63500	234700	569400	893600	2472000	1861000	1258000	489700	30720	120700	284500	562600	8840420
1906	810700	562100	371000	384000	866500	901400	229900	459400	224500	103800	29770	445600	5188670
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	69300	220000	1260000	-
1924	928000	593000	1290000	914000	439000	621000	27100	13600	118000	10400	11200	16800	4982100
1925	34700	18900	26800	21400	381000	20900	9260	6170	8780	247000	767000	41500	1583410
1926	446000	109000	866000	1210000	922000	385000	558000	343000	232000	130000	106000	605000	5912000
1927	475000	542000	1070000	1020000	779000	402000	242000	39600	18700	345000	64300	105000	5102600
1928	142000	255000	461000	431000	221000	494000	285000	120000	10800	6520	45300	418000	2889620
1929	576000	248000	437000	383000	1390000	2150000	130000	15700	43400	36900	237000	156000	5803000
1930	209000	504000	308000	88100	2010000	853000	48900	10600	10900	244000	95800	701000	5083300
1931	281000	616000	605000	430000	417000	97000	38700	24000	14200	36800	61900	267000	2888600
1932	2010000	2030000	1760000	174000	494000	298000	308000	46900	424000	29200	28600	130000	7732700
1933	707000	259000	812000	355000	446000	461000	39900	95300	88700	36700	33200	49400	3383200
1934	370000	259000	840000	1220000	215000	65500	12300	8300	17900	9910	91370	190000	3299280
1935	271800	487000	330200	295000	2417000	1631000	671200	83460	111900	117700	201400	780000	7397660
1936	141500	99070	88700	39410	434200	299500	256700	17110	14270	775400	364600	346600	2877060
1937	778200	286800	670600	232500	68190	115600	16520	32110	88960	40390	96970	314900	2741740
1938	780000	1241000	1308000	1861000	482300	178300	63090	58160	20220	17200	31760	29400	6070430
1939	181700	324400	212600	323000	208900	361100	87750	19260	10270	11010	18980	211800	1970770
1940	35990	247100	36680	444800	532200	537800	838800	53400	27070	18190	729000	2176600	5675630
1941	1161000	770900	1113000	373200	1033000	1284000	1598000	163700	113600	331400	577900	240900	8760600
1942	148200	167700	179900	1509000	3512000	1481000	278300	83210	324500	243200	281500	216100	8422610
1943	396000	109200	198600	722200	632300	847600	78300	24370	62660	230000	34630	116500	3452360
1944	636800	719600	1032000	289300	2673000	673300	54510	37190	90200	37780	208100	601700	7053480
1945	1162000	559800	2543000	3401000	571300	679100	832600	217700	125800	505200	177900	275400	11050800
1946	706900	1121000	1146000	362400	1219000	1588000	118200	55970	182400	64610	1339000	710400	8613880
1947	809600	211800	810900	618300	624300	268000	178600	53910	179600	58290	122800	606800	4535700
1948	396600	486600	895700	249800	757600	126500	174500	43370	39170	31870	27810	41040	3270560
1949	180200	467600	862300	543600	373500	777100	109500	33110	37430	382400	192500	193800	4153040
1950	525500	1465000	452000	508300	1073000	453700	168500	212900	363900	150400	77430	50810	5501440
1951	63220	137800	114600	70900	120900	548700	100800	27290	48430	23270	27710	37040	1320660
1952	46200	101200	119800	402400	602800	317400	22750	14850	13280	11290	56290	303500	2011760

TRINITY RIVER BASIN

08066000 Trinity River at Riverside, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	191400	138500	494200	164000	1701000	165800	25510	18380	28310	42410	61920	228800	3260230
1954	137200	59080	34160	65550	321600	26310	12500	14210	8700	143500	162700	49650	1035160
1955	102700	321500	156800	413800	144000	82630	22950	23780	29290	25070	11300	19050	1352870
1956	32220	146800	34280	79020	322700	36100	9090	6800	9730	10210	77190	22920	787060
1957	31170	112400	190300	829500	3551000	2456000	551900	495200	84090	838500	1023000	364000	10527060
1958	484300	263400	380300	423000	2256000	456400	274200	102200	413400	132300	56670	73790	5315960
1959	58290	364400	134500	695900	885700	375100	290700	70290	31770	594000	183700	586800	4271150
1960	1178000	567200	363700	126000	178700	155200	96470	85700	35620	150000	402900	1329000	4668690
1961	1659000	1022000	544500	394300	105300	401000	309200	44840	160800	58880	139100	443400	5282320
1962	250400	193900	196900	221700	397500	149700	149400	238500	416300	477000	111600	400700	3203600
1963	123800	110300	76090	115600	466200	142600	40370	26070	26710	21120	23650	40420	1212930
1964	47500	62510	141400	174200	103200	115900	25180	38170	90430	333600	338100	504800	1974990
1965	275200	767900	422000	318300	1263000	709200	64020	35970	50110	40000	83170	228900	4257770
1966	142700	325300	123000	558800	2980000	660000	332200	112100	113900	88120	38760	48370	5523250
1967	52090	44860	50790	155500	121500	275500	108600	30610	355900	167600	529300	329000	2021250
1968	691400	509700	887000	1504000	1524000	1041000	353000	101600	63560	-	-	-	-
MAX	2018000	2030000	2543000	3401000	3551000	2456000	1598000	495200	424000	838500	1339000	2176600	11050800
MIN	31170	18900	26800	21400	68190	20900	9090	6170	8700	6080	11200	16800	787060
MEAN	436886	433276	575211	553765	923407	581854	246596	97929	99972	161435	203050	347638	4660219
NO.	49	49	49	49	49	49	49	49	49	49	49	49	48
DISTR													
OF MEAN	9.4%	9.3%	12.3%	11.9%	19.8%	12.5%	5.3%	2.1%	2.1%	3.5%	4.4%	7.5%	100%

TRINITY RIVER BASIN

08066100 White Rock Creek near Trinity, Texas

LOCATION: Lat 31°03'06", long 95°22'40", Trinity County, 3.9 mi (6.3 km) upstream from Little White Rock Creek, 4.1 mi (6.6 km) upstream from Tantabogue Creek, 7.3 mi (11.7 km) north of Trinity, and 16.1 mi (25.9 km) above the mouth.

DRAINAGE AREA: 222 mi² (575 km²).

PERIOD OF RECORD: December 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 124.30 ft (37.887 m) above mean sea level, datum of 1929. Prior to June 10, 1974, at site 1.9 mi (3.1 km) downstream at same datum.

AVERAGE DISCHARGE: 9 years (1965-71, 1974-75), 82,525 ac-ft/yr (101.8 hm³/yr).

EXTREMES: Period of record (1965-71, 1974-75): Maximum discharge, 16,700 ft³/s (473 m³/s) Mar. 25, 1973 (gage height, 31.22 ft or 9.516 m, present site); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	-	-	175.20	-
1966	12680	18030	2440	44500	11390	181	661	3300	321	60.0	1.30	29.0	93593
1967	46.0	117	141	3520	459	4040	799	.50	.90	.70	1.20	1.84	9309
1968	12230	1370	4180	54850	9120	26460	2850	103	1740	57.0	8660	11390	133010
1969	3390	29260	50250	44270	37600	433	42.0	11.0	2.40	1.60	15.0	52.0	165327
1970	335	1570	7640	4690	493	28.0	2.60	.80	732	3920	687	121	20219
1971	270	261	163	5050	1310	45.0	.90	20.0	6.00	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	-	-	-	-	-	964	36.0	6050	21750	593	9880	8410	-
1975	8600	42550	3450	6200	22640	10530	1830	2210	168	397	500	219	99294
MAX	12680	42550	50250	54850	37600	26460	2850	6050	21750	3920	9880	175.20	165327
MIN	46.0	117	141	3520	459	28.0	.90	.50	.90	.70	1.20	29.0	9309
MEAN	5364	13308	9752	23297	11859	5335	778	1462	3090	718	2821	4741	82525
NO.	7	7	7	7	7	8	8	8	8	7	7	8	6
DISTR	6.5%	16.1%	11.8%	28.2%	14.4%	6.5%	.9%	1.8%	3.7%	.9%	3.4%	5.7%	100%

TRINITY RIVER BASIN

08066170 Kickapoo Creek near Onalaska, Texas

LOCATION: Lat 30°54'26", long 95°05'18", Polk County, 114 ft (35 m) downstream from an old bridge site, 1.2 mi (1.9 km) downstream from Magnolia Creek, 6.2 mi (10.0 km) upstream from Rocky Creek, 7.3 mi (11.7 km) northeast of Onalaska, and 15.9 mi (25.6 km) upstream from the mouth.

DRAINAGE AREA: 57.0 mi² (147.6 km²).

PERIOD OF RECORD: December 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 139.85 ft (42.626 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 32,164 ac-ft/yr (39.7 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 18,000 ft³/s (463 m³/s) June 13, 1973 (gage height, 26.0 ft or 7.92 m); minimum, 0.01 ft³/s (0.0003 m³/s) July 19, 20, 1971.

REMARKS: Records good. No diversion above station. The low flow is sustained by sewage effluent.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	-	-	109 00	-
1966	5150	7710	671	4200	1640	80.0	109	435	360	603	52.0	284	21292
1967	173	370	191	1620	1370	117	382	27.0	144	25.0	129	8 08	5356
1968	4110	407	3710	12740	4710	12750	564	289	90.0	112	1260	31 30	43872
1969	730	5310	11600	9720	12080	185	39.0	35.0	71.0	86.0	89.0	210	40155
1970	455	1090	1180	1470	179	25.0	15.0	20.0	35.0	1900	230	116	6715
1971	92.0	85.0	46.0	67.0	197	19.0	5.10	404	186	235	126	1350	2812
1972	4800	552	2770	1260	4770	241	244	225	85.0	141	396	2050	17534
1973	9810	3340	8940	11030	5690	21740	1860	2270	6370	8850	5010	54 30	90340
1974	19660	977	886	299	233	121	86.0	1220	3870	5530	9720	25 70	45172
1975	5780	6430	3860	5450	8420	2930	1280	3160	180	717	1130	998	40335
MAX	19660	7710	11600	12740	12080	21740	1860	3160	6370	8850	9720	10900	90340
MIN	92.0	85.0	46.0	67.0	179	19.0	5.10	20.0	35.0	25.0	52.0	116	2812
MEAN	5076	2627	3385	4786	3929	3821	458	808	1139	1820	1814	25 31	32194
NO.	10	10	10	10	10	10	10	10	10	10	10	11	10
DISTR OF MEAN	15.8%	8.2%	10.5%	14.9%	12.2%	11.9%	1.4%	2.5%	3.5%	5.7%	5.6%	7.9%	100%

TRINITY RIVER BASIN

08066190 Livingston Reservoir near Goodrich, Texas

LOCATION: Lat 30°38'00", long 95°00'36". Palk-San Jacinto County line, on the upstream wingwall at the left end of the gated spillway, 4.4 mi (7.1 km) northwest of Goodrich, 7 mi (11 km) southwest of Livingston, and 11.7 mi (18.8 km) upstream from Long King Creek.

DRAINAGE AREA: 16,583 mi² (42,950 km²).

PERIOD OF RECORD: September 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Feb. 26, 1969, temporary nonrecording gages at site about 200 ft (61 m) upstream and at the same datum.

EXTREMES: Period of record (1968-75): Maximum contents, 1,923,000 ac-ft (2,371.0 hm³) Mar. 25, 1973 (elevation, 132.60 ft or 40.416 m); minimum contents since deliberate impoundment first began on June 26, 1969, 149,600 ac-ft (184.4 hm³) Dec. 5, 1969 (elevation, 98.52 ft or 30.029 m).

REMARKS: The reservoir is formed by an earthfill dam 14,400 ft (4,390 m) long, including a controlled spillway, with a capacity of 1,788,000 ac-ft (2,204.6 hm³). The dam was completed on Sept. 29, 1968 and deliberate impoundment began on June 26, 1969. The spillway is a concrete gravity structure, 846 ft (197 m) long, with a net opening of 480 ft (146 m). The spillway has twelve 40- by 35-foot (12- by 11-m) tainter gates and is located near the left end of the dam. The outlet works for low-flow releases are located in a vertical concrete multi-gated inlet tower. There are five gated openings at various elevations located in the tower and all discharge into a 10-foot diameter (3-m) concrete conduit through the dam. The inlet tower is located 1,700 ft (518 m) to the right of the spillway abutment. For statement regarding the regulation by upstream reservoirs, see Trinity River near Oakwood (station 08065000). The dam is owned and operated jointly by the City of Houston and the Trinity River Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1968	-	-	-	-	-	-	-	-	3300	5930	89570	167600
1969	110400	260000	286300	222100	320100	259400	263600	217500	191700	177300	161800	176100
1970	170000	219500	380900	592700	998000	1053000	955500	906400	938800	1189000	1327000	1360000
1971	1378000	1411000	1415000	1433000	1448000	1407000	1345000	1400000	1407000	1716000	1797000	1832000
1972	1836000	1794000	1811000	1800000	1778000	1752000	1723000	1728000	1712000	1788000	1814000	1811000
1973	1808000	1792000	1810000	1753000	1802000	1800000	1792000	1798000	1837000	1843000	1834000	1809000
1974	1812000	1829000	1797000	1820000	1787000	1788000	1703000	1817000	1802000	1816000	1808000	1816000
1975	1782000	1800000	1793000	1808000	1825000	1823000	1812000	1772000	1758000	1778000	1772000	1793000
MAX	1836000	1829000	1811000	1820000	1825000	1823000	1812000	1817000	1837000	1843000	1834000	1832000
MIN	110400	219500	286300	222100	320100	259400	263600	217500	3300	5930	89570	167600
MEAN	1270914	1306786	1327600	1346971	1422586	1411771	1370586	1376986	1206225	1289154	1325421	1345588
NO.	7	7	7	7	7	7	7	7	8	8	8	8
DISTR												
OF MEAN	7.9%	8.1%	8.3%	8.4%	8.9%	8.8%	8.6%	8.6%	7.5%	8.1%	8.3%	8.4%

TRINITY RIVER BASIN

08066191 Livingston Reservoir at Outflow Weir near Goodrich, Texas

LOCATION: Lat 30°37'55", long 95°01'11". San Jacinto County, at the end of the conduit into the stilling basin, 1,700 ft (518 m) to the right of the right spillway abutment, 4.8 mi (7.7 km) northwest of Goodrich, and 11.7 mi (18.8 km) upstream from Long King Creek.

DRAINAGE AREA: 16,583 mi² (42,950 km²).

PERIOD OF RECORD: September 1969 to December 1975.

GAGE: Staff gages and concrete control. Datum of gage is at mean sea level. Prior to Oct. 1, 1974, water-stage recorder at same site and datum.

AVERAGE DISCHARGE: 7 years, 140,880 ac-ft/yr (173.7 hm³/yr).

EXTREMES: Period of record (1969-75): Maximum discharge, 3,400 ft³/s (96.3 m³/s) May 2, 1974; maximum elevation, about 93.0 ft (29.35 m) June 14, 1973 (backwater from the Trinity River); no flow for many days.

REMARKS: For details concerning the outlet works, see Livingston Reservoir (station 08066190). The purpose of this station is to record selective withdrawal releases at the outflow weir, crest 61.90 ft (18.867 m). These releases do not constitute the total flow from Livingston Reservoir since the flow through the tainter gates is not included in these totals.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	-	-	-	-	-	-	-	-	0	0	30700	72850	-
1970	12280	11560	0	1400	0	958	770	4770	0	6900	22240	18730	78222
1971	19500	22200	60850	77460	74860	66650	63120	27170	25720	7350	0	0	444880
1972	0	2300	335	438	685	537	0	0	0	0	0	0	2018
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	14000	0	3540	96300	4460	0	0	0	0	0	0	118300
1975	0	0	1590	0	0	0	0	0	0	33980	60400	49210	145180
MAX	19500	22200	60850	77460	96300	66650	63120	27170	25720	33980	60400	72850	444880
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	5297	7964	10463	13575	28641	12101	10648	5323	3674	6890	16191	20113	140880
NO.	6	6	6	6	6	6	6	6	7	7	7	7	6
DISTR OF MEAN	3.8%	5.7%	7.4%	9.6%	20.3%	8.6%	7.6%	3.8%	2.6%	4.9%	11.5%	14.3%	100%

TRINITY RIVER BASIN
08066200 Long King Creek at Livingston, Texas

LOCATION: Lat 30°42'58", long 94°57'31", Polk County, 64 ft (20 m) downstream from the centerline of the bridge on U.S. Highway 190, 2 mi (3 km) west of Livingston, 2 mi (3 km) upstream from Choates Creek, and 14.8 mi (23.8 km) upstream from the mouth.

DRAINAGE AREA: 141 mi² (386 km²).

PERIOD OF RECORD: January 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 100.12 ft (30.517 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 68,003 ac-ft/yr (83.8 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 26,500 ft³/s (750 m³/s) Nov. 5, 1973 (gage height, 27.06 ft or 8.248 m); no flow at times.

Maximum stage since at least 1870, about 41 ft (12.5 m) in May 1929.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	5800	8310	2790	1900	158	131	391	30.0	98.0	39.0	199	1220	21066
1964	3510	2390	15790	4590	4000	505	51.0	45.0	131	20.0	113	197	31342
1965	229	5120	4990	1100	2100	164	48.0	80.0	48.0	11.0	667	13740	28297
1966	9670	23650	2500	13390	6020	225	60.0	127	157	1520	73.0	394	57786
1967	949	1360	2020	9070	6870	466	434	26.0	9.1	35.0	117	531	21887
1968	4890	975	4510	18590	5370	30420	1350	190	237	413	5030	18190	90165
1969	1870	14880	19150	9040	40700	787	54.0	39.0	50.0	40.0	204	850	87664
1970	1670	808	2040	2630	479	98.0	17.0	22.0	39.0	7640	470	174	16087
1971	171	307	230	242	815	43.0	0	0	274	1480	379	5370	9311
1972	6420	1280	6560	6060	10780	458	317	105	247	112	1570	6040	39949
1973	11150	11550	25070	43400	8850	50570	10870	5340	11070	17980	40990	30190	267030
1974	59370	6550	3710	1520	963	442	159	273	3450	5440	17490	13220	112587
1975	16860	13340	7450	11010	23440	4180	4720	5330	803	1860	5920	5960	100873
MAX	59370	23650	25070	43400	40700	50570	10870	5340	11070	17980	40990	30190	267030
MIN	171	307	230	242	158	43.0	0	0	9.1	11.0	73.0	174	9311
MEAN	9428	6963	7447	9426	8503	6807	1421	893	1278	2815	5632	7390	68003
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13
DISTR OF MEAN	13.9%	10.2%	11.0%	13.9%	12.5%	10.0%	2.1%	1.3%	1.9%	4.1%	8.3%	10.9%	100%

TRINITY RIVER BASIN
08066250 Trinity River near Goodrich, Texas

LOCATION: Lat 30°34'19", long 94°56'55", Polk-San Jacinto County line, 40 ft (12 m) downstream from the downstream bridge on U.S. Highway 59, 0.2 mi (0.3 km) downstream from Long King Creek, and 3.0 mi (4.8 km) southeast of Goodrich.

DRAINAGE AREA: 16,844 mi² (43,826 km²).

PERIOD OF RECORD: December 1985 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 5,676,851 ac-ft/yr (6,399.6 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 96,200 ft³/s (2,720 m³/s) June 14, 1973 (gage height, 46.36 ft or 14.131 m); minimum daily, 191 ft³/s (5.41 m³/s) Aug. 6, 1971 (regulation by Livingston Reservoir).

Maximum stage since at least 1929, 52.0 ft (15.85 m) in May 1942, from information by the State Highway Department and local residents.

REMARKS: Records good. The flow has been regulated since Sept. 29, 1968 by Livingston Reservoir (station 08066190), capacity 1,788,000 ac-ft (2,204.6 hm³), located 11.9 mi (19.1 km) upstream. There are no diversions between Livingston Reservoir and the gaging station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	-	-	-	3356 00
1966	222200	468200	155300	627600	3320000	724600	367900	140400	126100	103100	40490	51390	6347280
1967	56280	57820	58830	196200	145500	294800	127700	33650	148700	172700	523000	338100	2153280
1968	696800	532000	888900	1763000	1683000	1309000	412200	125500	77290	79450	103200	363900	8034240
1969	180200	489400	1338000	1680000	2249000	875600	130800	83350	74810	73510	131700	219400	7525770
1970	293600	236100	1312000	472400	194300	158200	121400	67620	59320	43530	26730	19500	3004700
1971	19730	26210	62380	75080	75980	66040	64110	29770	27080	20870	319100	1546000	2332350
1972	1207000	234400	96360	96360	203300	53990	68250	21840	28650	17400	190800	181700	2400070
1973	522700	498200	1202000	1191000	1429000	1912000	423800	192200	202400	1576000	873600	802900	10825800
1974	1316000	341300	253400	138000	492400	215900	112500	100900	906100	301200	1801000	1432000	7410700
1975	736500	1624000	608700	930800	1165000	1079000	280100	203600	57590	59240	74160	67080	6885770
MAX	1316000	1624000	1338000	1763000	3320000	1912000	423800	203600	906100	1576000	1801000	1546000	10825800
MIN	19730	26210	58830	75080	75980	53990	64110	21840	27080	17400	26730	19500	2153280
MEAN	525101	450763	597589	717844	1095748	668913	210876	99883	170804	244700	408378	487052	5676851
NO. OF MEAN	10	10	10	10	10	10	10	10	10	10	10	10	10
DISTR													
OF MEAN	9.2%	7.9%	10.5%	12.6%	19.3%	11.8%	3.7%	1.8%	3.0%	4.3%	7.2%	8.6%	100%

TRINITY RIVER BASIN

08066300 Menard Creek near Rye, Texas

LOCATION: Lat 30°28'52", long 94°46'48", Liberty County, 20 ft (6 m) downstream from the bridge on State Highway 146, 2.3 mi (3.7 km) northwest of Rye, and 6 mi (10 km) upstream from the mouth.

DRAINAGE AREA: 152 mi² (394 km²).

PERIOD OF RECORD: December 1965 to December 1975.

GAGE: Wire-weight gage. Datum of gage is 82.32 ft (18.985 m) above mean sea level, datum of 1929. Prior to September 1974, water-stage recorder at same site and datum.

AVERAGE DISCHARGE: 11 years, 74,003 ac-ft/yr (91.2 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 9,660 ft³/s (274 m³/s) May 8, 1969 (gage height, 30.33 ft or 9.245 m); minimum daily 2.6 ft³/s (0.074 m³/s) Nov. 1, 1967.

Flood in September 1961 reached a stage of about 34 ft (10.4 m) from information by a local resident.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	-	-	4230	-
1966	5120	24900	4130	4160	4790	2140	1220	1210	850	1300	801	1350	51979
1967	1640	1620	2210	3630	1520	1370	442	336	263	210	211	495	13947
1968	1480	1010	2150	4470	9770	14420	3560	955	933	850	1120	3210	43928
1969	2170	5730	8430	5610	42670	2050	847	558	680	588	631	1110	71074
1970	2110	1730	3210	2970	5970	1500	671	779	559	1420	1320	667	22906
1971	899	776	828	582	2220	519	278	530	608	1360	908	8260	17768
1972	4510	3370	6000	3680	12390	1180	1150	610	694	874	1940	4030	40428
1973	9810	16280	13570	24670	15030	15350	6700	9690	6640	11410	8680	10360	156190
1974	47780	10510	8580	13410	5610	3540	1360	2490	5680	6820	30560	28120	164460
1975	26910	21710	12030	14550	22980	16240	10290	7360	4220	5540	10170	8200	160200
MAX	47780	24900	13570	24670	42670	16240	10290	9690	6640	11410	30560	28120	164460
MIN	899	776	828	582	1520	519	278	336	263	210	211	495	13947
MEAN	10243	8764	6114	7773	12295	5831	2652	2452	2114	3037	5634	7094	74003
NO.	10	10	10	10	10	10	10	10	10	10	10	11	10
DISTR													
OF MEAN	11.8%	11.8%	8.3%	10.5%	16.6%	7.9%	3.6%	3.3%	2.9%	4.1%	7.6%	9.6%	100%

TRINITY RIVER BASIN

08066400 Big Creek near Shephard, Texas

LOCATION: Lat 30°30'59", long 94°58'06", San Jacinto County, at the bridge on U.S. Highway 59, 1.5 mi (2.4 km) northeast of Shephard, and 11.6 mi (18.7 km) upstream from the mouth.

DRAINAGE AREA: 38.8 mi² (100.5 km²).

PERIOD OF RECORD: January 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 94.90 ft (28.926 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 18,744 ac-ft/yr (23.1 hm³/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 22,000 ft³/s (623 m³/s) June 13, 1973 (gage height, 25.69 ft or 7.830 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Aug. 7, 1967.

Maximum stage since at least 1949, that of June 13, 1973.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	1080	2800	893	1070	1230	463	421	761	402	724	392	738	10974
1967	799	549	633	881	348	427	157	110	155	182	212	436	4889
1968	704	388	694	789	2870	3150	663	310	299	739	509	1310	12425
1969	839	1660	2300	1320	5530	534	297	246	309	365	408	643	14451
1970	769	694	1610	1040	1080	388	215	167	373	626	372	441	7775
1971	376	441	337	281	693	236	145	313	283	233	296	1520	5154
1972	811	822	1470	857	3310	510	671	508	444	465	1080	2070	13018
1973	2680	4450	2960	4800	2410	23030	1460	1110	1590	2340	1720	5660	54210
1974	12140	2750	3010	1290	1090	718	435	706	1150	1550	5340	4580	34759
1975	4750	3870	2420	4030	3470	2470	1500	1550	1100	1160	1500	1960	29780
MAX	12140	4450	3010	4800	5530	23030	1500	1550	1590	2340	5340	5660	54210
MIN	376	388	337	281	348	236	145	110	155	182	212	436	4889
MEAN	2495	1842	1633	1636	2203	3193	596	578	611	838	1183	1936	16744
NO.	10	10	10	10	10	10	10	10	10	10	10	10	10
DISTR													
OF MEAN	13.3%	9.8%	8.7%	8.7%	11.8%	17.0%	3.2%	3.1%	3.3%	4.5%	6.3%	10.3%	100%

TRINITY RIVER BASIN

08066500 Trinity River at Romayor, Texas

LOCATION: Lat. 30°25'30", long 94°51'02". Liberty County, at the bridge on State Highway 105, 1.9 mi (3.1 km) south of Romayor, 1.9 mi (3.1 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 3.7 mi (6.0 km) downstream from Big Creek.

DRAINAGE AREA: 17,186 mi² (44,512 km²).

PERIOD OF RECORD: May 1924 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 35.92 ft (10.948 m) above mean sea level, datum of 1928. Prior to September 1943, nonrecording gage at datum 53.57 ft (16.328 m) higher at the railroad bridge 1.9 mi (3.1 km) upstream.

AVERAGE DISCHARGE: 52 years, 5,259,031 ac-ft/yr (6,484.4 hm³/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 111,000 ft³/s (3,140 m³/s) May 9, 1942 (gage height, 38.8 ft or 10.91 m, from floodmarks, present site and datum); minimum, 102 ft³/s (2.89 m³/s) Aug. 24, 25, 1956.

Maximum stage since at least 1908, that of May 9, 1942.

REMARKS: Records fair. The flow has been regulated since Sept. 28, 1968 by Livingston Reservoir (station 08066190), capacity 1,788,000 ac-ft (2,204.6 hm³) located 35 mi (56 km) upstream. There are no diversions between Livingston Reservoir and the gaging station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	573900	868000	47600	23500	61600	21100	21500	28100	-
1925	80400	33000	32400	24700	356000	27100	13900	9850	12200	36500	103000	84000	2068550
1926	651000	152000	983000	1380000	986000	391000	491000	353000	226000	113000	107000	61100	6444000
1927	517000	580000	1190000	1110000	877000	406000	273000	66700	29700	371000	95800	154000	5670200
1928	197000	257000	562000	478000	245000	484000	291000	125000	18000	16000	54600	481000	3228600
1929	664000	357000	599000	428000	1830000	2240000	170000	30400	56500	46500	303000	159000	6883400
1930	387000	689000	410000	135000	1420000	1230000	85500	20800	21900	275000	129000	84200	5645200
1931	485000	728000	676000	430000	462000	94600	47200	31800	23900	28500	94000	387000	3468000
1932	2081000	2170000	2020000	214000	464000	313000	287000	79900	412000	44500	35200	120000	8240600
1933	719000	369000	972000	402000	405000	486000	77500	107000	98200	42100	34200	42900	3754900
1934	347000	381000	953000	1290000	204000	81500	18500	15200	20400	23440	125800	325500	3785340
1935	308900	524200	349600	334900	3019000	1932000	829400	100200	132400	108700	260500	102400	8923800
1936	172500	129700	100100	47230	431400	312100	387100	35180	21240	677200	362600	367200	3043550
1937	845600	333400	671600	307200	79000	105000	26100	27960	98060	56030	119600	319100	2988650
1938	802400	1232000	1354000	1750000	725600	203700	80450	77400	32880	28720	46230	42960	6376340
1939	294800	419700	283500	304000	238700	333600	132700	23830	16410	14650	21100	245300	2328290
1940	51750	342600	45770	440800	568000	612200	860300	64800	38290	25930	791300	265800	6499740
1941	1399000	910600	1357000	413000	1275000	1344000	1751000	175200	158600	370900	909900	271400	10335600
1942	177200	191700	234300	1528000	3732000	1572000	369700	209800	334200	234700	346700	275300	9205600
1943	599500	139100	199200	772200	614100	847100	145100	59180	66190	233700	47240	131600	3854210
1944	728400	874700	1148000	391700	3009000	793100	68270	48020	114700	44640	234600	685900	8141030
1945	1429000	707200	2589000	3910000	675100	655200	904100	162600	205600	513400	201900	323400	12278400
1946	846900	1314000	1278000	383200	1368000	1784000	202700	57800	198200	80150	1637000	795400	9865350
1947	1197000	284900	954100	614500	723600	250900	234300	59030	178300	60680	111100	618400	5286610
1948	425600	626100	999500	402600	807800	159300	172300	50230	43150	36060	34750	42290	3799680
1949	184000	560400	1050000	674800	337800	866000	139000	49330	55240	724900	241100	421100	5303670
1950	852400	1670000	705500	554300	1201000	800900	249000	230700	366900	195600	79660	55560	6961520
1951	72100	139400	158600	95200	134400	577300	134500	31580	54090	26900	33050	47050	1504170
1952	53100	123800	160300	474500	659400	376100	31750	17590	14100	13710	55160	32330	2302810
1953	234000	214900	528200	198400	2031000	285300	41630	29200	35080	36710	71800	1269100	3975320
1954	160900	66720	44530	71510	383500	44540	30790	33840	12740	121400	229000	70880	1270350
1955	141700	442100	176900	579300	170100	103500	32260	28420	29660	38140	16300	25050	1783430
1956	41700	185800	58700	120900	316200	46080	12350	7860	9830	11100	77520	29240	917280
1957	30630	120700	242500	844500	3812000	2685000	600000	623300	109900	981500	1286000	550200	11886230
1958	790500	410300	426100	427200	228900	488200	274300	96400	447000	160000	55300	65700	593000
1959	58080	375300	154100	816700	947900	368300	406700	105100	40800	575800	240200	644400	4733380
1960	1260000	703000	462900	146900	247900	240900	122900	98280	63340	158700	500100	1408000	5412920
1961	1841000	1208000	682300	455800	120500	406800	379100	66850	332000	82940	126900	548200	6250390
1962	346100	243300	229000	221900	498900	159900	158600	231300	388400	502100	137900	485700	3603100
1963	193200	179900	111000	166900	473000	158100	58030	32750	31410	23420	31940	62560	1522210
1964	71590	84360	232100	233400	174900	118900	32640	36770	67320	342300	302600	502100	2198980
1965	285900	805700	489500	391300	1168000	853800	74770	41220	51060	52590	105000	354800	4673240
1966	211100	459300	155800	591000	3197000	695300	368700	158000	128700	107800	44640	54850	6172190
1967	58550	54980	61730	198200	146200	268900	113700	32210	140700	169400	501100	320100	2065770
1968	675500	539700	868900	1696000	1627000	1316000	445400	127800	75800	80090	96540	357200	7905930
1969	187500	466600	1313000	1632000	2227000	862500	125700	88520	83390	86960	128700	220600	7422470
1970	300400	230900	1291000	513300	208900	152900	113000	65780	58660	45750	26740	21610	3028940
1971	21310	24990	56210	69970	80090	66950	57580	29400	27930	26870	309800	148700	2258100
1972	1198000	247600	107600	100600	241300	56640	75020	24820	28100	20020	190300	196000	2486000
1973	521600	547900	1289000	1235000	1419000	1908000	444500	204500	201800	1561000	885800	821500	11039600

TRINITY RIVER BASIN

08066500 Trinity River at Romayor, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	1358000	367900	251900	170200	500100	217400	110000	91000	883700	310600	1832000	1488000	7580800
1975	776900	1675000	630100	946000	1188000	1113000	351200	236400	67670	68940	89790	79060	7222060
MAX	2081000	2170000	2589000	3910000	3812000	2685000	1751000	623300	883700	1561000	1832000	2658000	12276400
MIN	21310	24990	32400	24700	79000	27100	12350	7860	9830	11100	16300	21610	917280
MEAN	535935	507734	625654	610134	978640	628512	249016	92948	123535	199170	285568	421985	5259031
NO. OF MEAN	51	51	51	51	52	52	52	52	52	52	52	52	51
DISTR													
OF MEAN	10.2%	9.7%	11.9%	11.6%	18.6%	12.0%	4.7%	1.8%	2.3%	3.8%	5.4%	8.0%	100%

TRINITY RIVER BASIN

08067000 Trinity River at Liberty, Texas

LOCATION: Lat 30°03'27", long 94°40'05", Liberty County, at the bridge on U.S. Highway 90 in Liberty, and 345 ft (105 m) downstream from the Texas and New Orleans Railroad Co. bridge.

DRAINAGE AREA: 17,468 mi² (45,242 km²).

PERIOD OF RECORD: June 1940 to December 1975 (high-water records only).

GAGE: Water-stage recorder. Datum of gage is 3.04 ft (0.927 m) below mean sea level, datum of 1929, adjustment of 1973; not adjusted for land-surface subsidence. Prior to Mar. 13, 1973, nonrecording gage at site 105 ft (32 m) downstream at same datum.

EXTREMES: Maximum discharge, 114,000 ft³/s (3,230 m³/s) May 12, 1942 (gage height, 29.38 ft or 8.955 m); minimum not determined (affected by tides); minimum gage height observed, 2.32 ft (0.707 m) Nov. 24, 1970.

Maximum stage since at least 1903, that of May 12, 1947.

REMARKS: Records poor. The discharge below 10,000 ft³/s (283 m³/s) is not published. The published discharges are estimated using the records for the Trinity River near Romayor (station 08066500), intervening area computation, and discharge measurements. The flow is regulated by Livingston Reservoir (station 08066190), located 88.9 mi (143.0 km) upstream. There are many diversions above the station for municipal, industrial, and irrigation uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	717800	-	-	-	-	-	3003000	-
1941	1586000	946400	1476000	463700	1323000	1333000	1875000	-	-	-	1039000	-	-
1942	-	-	-	-	4079000	1732000	-	-	-	-	-	-	-
1943	-	-	-	798200	-	855000	-	-	-	-	-	-	-
1944	727100	934300	1218000	-	-	-	-	-	-	-	-	-	-
1945	1517000	722200	2584000	4060000	845600	-	-	-	-	-	-	-	-
1946	-	1281000	1403000	-	1325000	1806000	-	-	-	-	-	838300	-
1947	1267000	325500	1005000	633700	862100	-	-	-	-	-	-	-	-
1948	465700	632200	985000	-	-	-	-	-	-	-	-	-	-
1949	-	-	1164000	836700	-	881000	-	-	-	-	-	-	-
1950	909400	1595000	955000	-	1354000	952100	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	2366000	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	3763000	2744000	707200	696700	-	-	1426000	589000	-
1958	911900	420400	414800	380500	2461000	554600	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	1414000	751800	-	-	-	-	-	-	-	-	-	-	-
1961	2076000	1302000	766900	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	507300	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	558600	-
1965	-	841800	550800	-	-	1104000	-	-	-	-	-	-	-
1966	-	-	-	-	3192000	803300	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-	-
1968	671500	567700	832500	1653000	1493000	1277000	-	-	-	-	-	-	-
1969	-	-	1319000	1708000	2244000	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	1550500	-
1972	1293500	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	604000	1063000	1290000	1645000	1880000	-	-	-	1618000	1006000	861200	-
1974	1322000	598100	316000	-	511000	-	-	-	-	-	1892000	1628000	-
1975	-	-	-	-	-	1225000	-	-	-	-	-	-	-
MAX	2076000	1595000	2584000	4060000	4079000	2744000	1875000	696700	-	1618000	1892000	3003000	-
MIN	465700	325500	316000	380500	511000	554600	707200	696700	-	1618000	1006000	507300	-
MEAN	1180092	823029	1070200	1313756	1961693	1276057	1293100	696700	-	1618000	1340750	1191988	13763365
NO.	12	14	15	9	14	14	2	1	0	1	4	8	0
DISTR													
GF MEAN	8.6%	6.0%	7.8%	9.5%	14.3%	9.3%	9.4%	5.1%	.0%	11.8%	9.7%	8.7%	100%

TRINITY RIVER BASIN

08067080 Devers Canal near Liberty, Texas

LOCATION: Lat 29°57'58", long 94°43'17", Liberty County, at the flume over Farm Road 563, 260 ft (76 m) downstream from the pump plant No. 2, and 8 mi (13 km) southeast of Liberty.

PERIOD OF RECORD: January 1972 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

REMARKS: Records fair. The discharge is computed from the pump record and is verified by the elevation record and discharge measurements. The flow is diverted from the Trinity River at the pump plant No. 1 through a canal 4.7 mi (7.6 km) to pump plant No. 2, located 260 ft (76 m) upstream from the station. The water is furnished by the Trinity River Authority for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	0	0	10360	17180	16010	23970	16030	11520	16060	0	1900	0	113030
1973	0	0	3680	7720	19800	21960	25950	15880	8010	2350	0	0	105350
1974	0	0	7010	13870	20450	24510	22180	12950	7570	1520	1440	0	111500
1975	0	0	7770	12860	20610	18830	16270	7660	7930	0	853	0	92783
MAX	0	0	10360	17180	20610	24510	25950	15880	16060	2350	1900	0	113030
MIN	0	0	3680	7720	16010	18830	16030	7660	7570	0	0	0	92783
MEAN	0	0	7205	12908	19218	22318	20108	12003	9893	968	1048	0	105669
NO.	4	4	4	4	4	4	4	4	4	4	4	4	4
DISTR OF MEAN	.0%	.0%	6.8%	12.2%	18.2%	21.1%	19.0%	11.4%	9.4%	.9%	1.0%	.0%	100%

TRINITY-SAN JACINTO COASTAL BASIN

08067500 Cedar Bayou near Crosby, Texas

LOCATION: Lat 29°58'21", long 94°58'08", Harris-Liberty County line, at the bridge on U.S. Highway 90, and 6.6 mi (10.6 km) northeast of Crosby.

DRAINAGE AREA: 64.9 mi² (168.1 km²).

PERIOD OF RECORD: October 1971 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 31.31 ft (9.543 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 5 years, 66,352 ac-ft/yr (80.6 km³/yr).

EXTREMES: Period of record (1971-76): Maximum discharge, 2,870 ft³/s (81.3 m³/s) June 13, 1973 (gage height, 24.91 ft or 7.593 m); minimum, 0.01 ft³/s (0.0003 m³/s) May 20 and July 30, 1974.

REMARKS: Records fair. The low flow is sustained from industrial effluent and drainage from irrigated lands.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	-	643	297	10850	-
1972	4070	1520	3020	1380	9750	1080	2060	536	1470	1600	8810	1510	36806
1973	7290	5760	9030	18680	2020	29820	7390	1850	13780	15620	3330	2570	117140
1974	13720	376	1420	1500	6400	431	254	1230	11830	1240	16410	8990	63301
1975	8410	7670	407	7960	7080	4680	1820	3480	492	2450	785	2570	47804
MAX	13720	7670	9030	18680	9750	29820	7390	3480	13780	15620	16410	10850	117140
MIN	4070	376	407	1380	2020	431	254	536	492	641	297	1510	36806
MEAN	8373	3832	3469	7380	6313	9003	2881	1774	6893	4310	5926	5198	65352
NC.	4	4	4	4	4	4	4	4	4	5	5	5	4
DISTR OF MEAN	12.8%	5.9%	5.3%	11.3%	9.7%	13.8%	4.4%	2.7%	10.5%	6.6%	9.1%	8.0%	100%

SAN JACINTO RIVER BASIN
08067600 Lake Conroe near Conroe, Texas

LOCATION: Lat 30°21'30", long 95°33'39", Montgomery County, at the service outlet tower, 140 ft (43 m) upstream from the centerline of the dam, and 7.4 mi (11.9 km) west of Conroe.

DRAINAGE AREA: 445 mi² (1,153 km²).

PERIOD OF RECORD: January 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1973-75): Maximum contents, 460,000 ac-ft (667.2 hm³) Jan. 28, 1974 (elevation, 202.38 ft or 61.685 m); minimum contents since the operating level was first reached, 390,500 ac-ft (481.5 hm³) Dec. 2, 1973 (elevation, 199.04 ft or 60.667 m).

REMARKS: The lake is formed by an earthfill dam 11,300 ft (3,440 m) long, including a controlled spillway, with a capacity of 430,200 ac-ft (530.6 hm³). The dam was completed on Sept. 1, 1972 and deliberate impoundment began on Jan. 9, 1973. The spillway is a concrete gravity structure, 240 ft (73 m) long, with a net opening of 200 ft (61 m). The spillway has five 40- by 30-foot (12- by 9-m) tainter gates and is located near the center of the dam. The outlet works for low-flow releases are located in a vertical concrete multi-gated inlet tower. There are three gated openings and one uncontrolled opening in the inlet tower. The dam is operated jointly by the San Jacinto River Authority and the City of Houston.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1973	41210	63050	139400	222400	247900	338900	336600	335100	354300	430300	390700	401700
1974	445200	401900	406400	411300	413100	404700	397300	405300	429000	428000	428200	424900
1975	425100	426100	424900	432800	431800	432800	429400	428600	429100	428600	424700	428400
MAX	445200	426100	424900	432800	431800	432800	429400	428600	429000	430300	428200	428400
MIN	41210	63050	139400	222400	247900	338900	336600	335100	354300	428000	390700	401700
MEAN	303837	297017	323567	355500	364267	392133	387767	389667	402467	428967	414533	418333
NO. OF MEAN	3	3	3	3	3	3	3	3	3	3	3	3
DISTR	6.8%	6.6%	7.2%	7.9%	8.1%	8.8%	8.7%	8.7%	9.0%	9.6%	9.3%	9.3%

SAN JACINTO RIVER BASIN

08067610 Lake Conroe at Outflow Weir near Conroe, Texas

LOCATION: Lat 30°21'23", long 95°33'37", Montgomery County, on the left side of the stilling basin of the outflow weir, 620 ft (189 m) downstream from the centerline of the dam, 770 ft (235 m) downstream from the service outlet tower, 3.0 mi (4.8 km) upstream from the bridge on State Highway 106, and 7.4 mi (11.9 km) west of Conroe.

DRAINAGE AREA: 445 mi² (1,153 km²).

PERIOD OF RECORD: October 1973 to December 1975.

GAGE: Water-stage recorder and sharp-crested weir. Datum of gage is 138.48 ft (42.209 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1973-75): Maximum discharge, 339 ft³/s (9.60 m³/s) Feb. 19-25, 1974; many days with no controlled releases.

REMARKS: Records fair. The discharge represents the controlled outflow from the service tower and does not constitute the total outflow from Lake Conroe. The uncontrolled low flows through the weir are published as the station "West Fork San Jacinto River below Lake Conroe" (station 08067650).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	-	-	-	-	-	-	-	-	-	12.0	266	1240	-
1974	373	7270	0	0	0	0	0	0	458	0	0	0	8101
1975	0	0	0	0	0	226	0	0	0	0	0	0	226
MAX	373	7270	0	0	0	226	0	0	458	12.0	266	1240	8101
MIN	0	0	0	0	0	0	0	0	0	0	0	0	226
MEAN	187	3635	0	0	0	113	0	0	229	4.00	88.7	413	4670
NO.	2	2	2	2	2	2	2	2	2	3	3	3	2
DISTR													
OF MEAN	4.0%	77.8%	0.0%	0.0%	0.0%	2.4%	0.0%	0.0%	4.9%	.1%	1.9%	0.9%	100%

SAN JACINTO RIVER BASIN

08087650 West Fork San Jacinto River below Lake Conroe near Conroe, Texas

LOCATION: Lat 30°20'31", long 95°32'34", Montgomery County, at the bridge on State Highway 105, 3.0 mi (4.8 km) downstream from Lake Conroe Dam, and 5.8 mi (9.5 km) west of Conroe.

DRAINAGE AREA: 451 mi² (1,168 km²).

PERIOD OF RECORD: August 1972 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 116.06 ft (35.375 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1972-75): Maximum discharge, 2,750 ft³/s (77.9 m³/s) Jan. 28, 1974 (gage height, 28.00 ft or 8.839 m); maximum gage height, 30.87 ft (9.409 m) June 13, 1973 (backwater from local runoff); minimum discharge not determined.

Flood of November 1940 reached a stage of 41.94 ft (12.783 m) from information provided by the Texas Highway Department.

REMARKS: Records fair. The discharge is determined only during periods of outflow from Lake Conroe. The low-flow discharges are estimated on the basis of the uncontrolled flow from Lake Conroe. The discharge is estimated during periods of backwater from local runoff.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	-	-	-	-	-	-	-	0	0	0	0	0	-
1973	0	0	0	0	0	0	0	0	0	-	-	-	-
1974	-	50980	-	0	0	0	0	0	-	-	65760	20060	-
1975	27620	32710	12180	36310	71700	21930	4970	1790	762	4530	1440	6940	222882
MAX	27620	50980	12180	36310	71700	21930	4970	1790	762	4530	65760	20060	222882
MIN	0	0	0	0	0	0	0	0	0	0	0	0	222882
MEAN	13810	27897	6090	12103	23900	7310	1657	448	254	2265	22400	9000	127134
NO.	2	3	2	3	3	3	3	4	3	2	3	3	1
DISTR OF MEAN	10.9%	21.9%	4.8%	9.5%	18.8%	5.7%	1.3%	.4%	.2%	1.8%	17.6%	7.1%	100%

SAN JACINTO RIVER BASIN

08067700 Canzy Creek near Dobbin, Texas

LOCATION: Lat 30°21'13", long 96°48'35", Montgomery County, 46 ft (14.0 m) downstream from the bridge on State Highway 106, 2.5 mi (4.0 km) west of Dobbin, and 5.0 mi (8.0 km) upstream from Lake Creek.

DRAINAGE AREA: 40.4 mi² (104.6 km²).

PERIOD OF RECORD: April 1963 to September 1966.

GAGE: Water-stage recorder. Datum of gage is 207.48 ft (63.2 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 3 years, 14,731 ac-ft/yr (18.2 hm³/yr).

EXTREMES: Period of record (1963-66): Maximum discharge, 12,200 ft³/s (346.6 m³/s) January 22, 1965 (gage height 13.22 ft or 4.0 m); no flow at times.

Maximum stage since at least 1940, 20 ft (6.1 m) in August 1945, from information by local residents and the Gulf, Colorado, and Santa Fe Railway Co.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	468	1370	40	0	0	0	0	5.40	384	-
1964	1120	828	1600	1490	194	785	0	0	436	887	3210	1010	11560
1965	5670	7800	870	455	2490	1430	0	0	0	-	-	-	-
MAX	5670	7800	1600	1490	2490	1430	0	0	436	887	3210	1010	11560
MIN	1120	828	670	455	194	40	0	0	0	0	5.40	384	11560
MEAN	3395	4314	1235	804	1351	738	0	0	145	444	1608	697	14731
NO.	2	2	2	3	3	3	3	3	3	2	2	2	1
DISTR OF MEAN	23.0%	29.3%	8.4%	5.5%	9.2%	5.0%	.0%	.0%	1.0%	3.0%	10.9%	4.7%	100%

SAN JACINTO RIVER BASIN

08088000 West Fork San Jacinto River near Conroe, Texas

LOCATION: Lat 30°14'40", long 96°27'25", Montgomery County, at the bridge on Interstate Highway 45 and U.S. Highway 75, 281 ft (86 m) upstream from the Missouri-Pacific Railroad Co. bridge, 3.5 mi (5.6 km) downstream from Lake Creek, and 4.2 mi (6.8 km) south of Conroe.

DRAINAGE AREA: 809 mi² (2,095 km²).

PERIOD OF RECORD: May 1924 to September 1927, August 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 95.03 ft (28.965 m) above mean sea level, datum of 1929, adjustment of 1943. May 7, 1924 to Sept. 30, 1927, nonrecording gage at the railroad bridge 285 ft (87 m) downstream at datum 30.10 ft (9.174 m) higher. July 13, 1939 to Sept. 30, 1963, water-stage recorder at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE: 41 years, 380,141 ac-ft/yr (444.0 hm³/yr).

EXTREMES: Period of record (1924-27, 1939-75): Maximum discharge, 110,000 ft³/s (3,120 m³/s) Nov. 25, 1940 (gage height, 30.85 ft or 9.403 m, present datum); no flow June 14, 1956 and Sept. 19 to Oct. 1, 1965 as the result of temporary dams.

Maximum stage since at least December 1913, that of Nov. 25, 1940.

REMARKS: Records good. The flow has been regulated since Jan. 8, 1973 by Lake Conroe (station 08087800), capacity 430,300 ac-ft (530.6 hm³), located 14.5 mi (23.3 km) upstream. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	127000	121000	3340	1670	1730	1250	1240	2530	-
1925	7850	4440	2450	1550	1160	918	827	1260	1080	90400	245000	14800	371735
1926	118000	12300	139000	324000	70700	7280	6730	5230	3000	2030	1800	53900	743970
1927	12500	16600	104000	131000	20100	65300	12300	4120	2170	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	1620	902	772	1280	8530	-
1940	3660	35340	4280	8980	18150	77340	19770	1300	827	902	406600	214200	791349
1941	62260	80400	92860	128400	32210	120700	18550	2800	9320	41930	98740	10870	702680
1942	9740	11120	11550	132400	53330	42550	16450	4200	8880	3300	13900	38990	346410
1943	71150	7270	16340	5910	21230	23450	19470	10110	1650	1800	2250	14280	194910
1944	103700	82300	54660	8370	87930	11660	1890	1890	3030	1510	30800	101300	489040
1945	110400	101000	48120	212700	60340	19520	6770	116700	47560	5850	3910	18630	751500
1946	111800	97460	142600	11800	103600	60900	16340	2120	3660	23230	274100	24960	872770
1947	130500	11140	105900	7730	40190	4440	2870	1670	1570	1360	3210	14340	324920
1948	9770	35110	50020	20990	8790	2100	1690	942	1060	932	1590	2050	135044
1949	7830	49000	71220	63420	7520	2770	3110	2410	2460	60020	4960	61610	336330
1950	83660	99180	25610	35900	55140	174400	4950	1650	4250	2650	1730	2140	491260
1951	3500	6810	12660	6950	2150	1380	942	718	1260	970	1210	3010	41560
1952	2730	16800	15680	80210	29860	7330	1800	776	587	534	1270	6490	164067
1953	12790	26710	13090	23090	174200	3430	2830	2010	5500	1830	8280	55870	329630
1954	18030	7610	3870	4100	11280	1090	2460	2570	517	6830	12910	4630	75897
1955	14950	79640	4960	18290	4040	1730	1330	2740	1090	863	754	1320	131707
1956	2720	15420	6120	16090	2240	1980	781	489	489	501	776	2060	49666
1957	1350	3190	19100	99460	77590	19050	1580	610	1540	53550	139100	36360	452480
1958	111900	52090	11210	18730	61130	1460	829	555	9290	13400	3910	2870	287374
1959	5120	38010	8750	209900	29610	11540	3490	3640	1670	9670	16240	45580	383220
1960	42260	66570	15060	9940	30070	121700	60100	39390	7580	76730	140400	115900	725700
1961	157000	144900	16530	20130	4630	18590	52340	3240	92810	3430	7150	17020	537770
1962	29570	14730	8610	12030	9530	5550	1770	1120	2840	1720	5380	58860	151710
1963	40680	29900	10700	19580	4740	1830	4850	1420	889	823	4130	13650	133192
1964	17660	25760	48560	35930	12790	12070	1490	1100	3020	3960	26630	17270	206240
1965	69710	102600	14740	11000	15440	17700	1290	934	375	1660	3570	35860	274899
1966	27490	65470	19630	79470	69150	3210	1230	1490	3160	3250	1510	2310	277570
1967	2970	2960	2660	11530	3700	8910	815	947	13720	1460	1510	7600	58982
1968	81900	5680	19620	65050	112200	183600	12820	1650	3530	16310	16680	87030	606070
1969	8770	92480	104400	71400	90910	3170	1140	658	1820	841	1270	2240	379099
1970	3220	3340	37160	25720	5110	2280	895	683	1400	6360	1560	1420	89148
1971	1210	1250	1260	2190	14380	2000	686	982	1170	1170	621	7660	34599
1972	8550	7360	6720	8120	65800	3810	1270	1040	1080	1520	14500	15250	135070
1973	32270	26010	61220	69300	19570	97830	6210	5380	26220	88910	82270	48200	563390

SAN JACINTO RIVER BASIN

08068000 West Fork San Jacinto River near Conroe, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	148200	67640	7900	3350	6920	4140	1300	2640	88220	25870	123800	41250	521230
1975	49140	61950	22310	81040	105600	39230	19780	12240	7650	17780	7130	19320	443170
MAX	157000	144900	142600	324000	174200	183600	60100	116700	92810	90400	406600	214200	872770
MIN	1210	1250	1260	1550	1160	918	686	489	375	501	621	1320	34599
MEAN	44526	41312	34911	53737	41757	32723	7977	6066	9038	14447	42842	30805	360141
NO.	39	39	39	39	40	40	40	41	41	40	40	40	38
DISTR OF MEAN	12.4%	11.5%	9.7%	14.9%	11.6%	9.1%	2.2%	1.7%	2.5%	4.0%	11.9%	8.6%	100%

SAN JACINTO RIVER BASIN
08068400 Panther Branch near Conroe, Texas

LOCATION: Lat 30°11'34", Long 95°29'09", Montgomery County, 100 ft (30 m) downstream from a pipeline right-of-way, 400 ft (122 m) downstream from the mouth of Bear Branch, 5.6 mi (9.0 km) upstream from Panther Branch near Spring (station 08068450), and 8 mi (13 km) southwest of Conroe.

DRAINAGE AREA: 25.9 mi² (67.1 km²).

PERIOD OF RECORD: July 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 126.52 ft (38.258 m) above mean sea level, datum of 1929.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	-	0	213	799	1110	5720	3850	-
1975	1230	2370	946	4790	1300	627	235	110	9.2	64.0	101	400	12182
MAX	1230	2370	946	4790	1300	627	235	213	799	1110	5720	3850	12182
MIN	1230	2370	946	4790	1300	627	0	110	9.2	64.0	101	400	12182
MEAN	1230	2370	946	4790	1300	627	118	162	404	587	2911	2125	17570
NO.	1	1	1	1	1	1	2	2	2	2	2	2	1
DISTR.													
OF MEAN	7.0%	13.5%	5.4%	27.3%	7.4%	3.6%	.7%	.9%	2.3%	3.3%	16.6%	12.1%	100%

SAN JACINTO RIVER BASIN
08088440 Lake Harrison at Drop Inlet at Woodlands, Texas

LOCATION: Lat 30°08'24", long 95°28'33", Montgomery County, at the end of the walkway to the drop-inlet structure on the dam of Lake A at Woodlands.

DRAINAGE AREA: 0.71 mi² (1.84 km²).

PERIOD OF RECORD: October 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 100.00 ft (30.480 m) above mean sea level.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	-	-	-	-	23.0	175	102	-
1975	57.0	80.0	26.0	190	124	5.70	7.40	0	0	17.0	17.0	28.0	552
MAX	57.0	80.0	26.0	190	124	5.70	7.40	0	0	23.0	175	102	552
MIN	57.0	80.0	26.0	190	124	5.70	7.40	0	0	17.0	17.0	28.0	552
MEAN	57.0	80.0	26.0	190	124	5.70	7.40	0	0	20.0	96.0	65.0	671
NO.	1	1	1	1	1	1	1	1	1	2	2	2	1
DISTR OF MEAN	8.5%	11.9%	3.9%	28.3%	18.5%	.8%	1.1%	.0%	.0%	3.0%	14.3%	9.7%	100%

SAN JACINTO RIVER BASIN
08068450 Panther Branch near Spring, Texas

LOCATION: Lat 30°08'04", long 95°28'38", Montgomery County, 300 ft (91 m) upstream from the Sawdust Road bridge, 3.0 mi (4.8 km) upstream from Spring Creek, and 5.1 mi (8.2 km) northwest of Spring.

DRAINAGE AREA: 34.5 mi² (89.4 km²).

PERIOD OF RECORD: April 1972 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 88.89 ft (30.081 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1972-75): Maximum discharge, 5,650 ft³/s (157 m³/s) June 13, 1973 (gage height, 15.94 ft or 4.859 m); no flow for many days.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	-	-	-	726	6750	116	1.20	45.0	9.1	131	448	105	-
1973	1010	2330	4850	7890	868	8070	470	261	5470	7770	367	2940	42296
1974	10180	483	512	51.0	83.0	62.0	0	264	1660	1210	7840	4910	27255
1975	1730	3290	1400	7080	2360	728	284	162	17.0	137	204	547	17939
MAX	10180	3290	4850	7890	6750	8070	470	264	5470	7770	7840	4910	42296
MIN	1010	483	512	51.0	83.0	62.0	0	45.0	9.1	131	204	105	17939
MEAN	4307	2034	2254	3937	2515	2244	189	183	1789	2312	2215	2126	26105
NO.	3	3	3	4	4	4	4	4	4	4	4	4	3
DISTR OF MEAN	16.5%	7.8%	8.6%	15.1%	9.6%	8.6%	.7%	.7%	6.9%	8.9%	8.5%	8.1%	100%

SAN JACINTO RIVER BASIN
08068520 Spring Creek at Spring, Texas

LOCATION: Lat 30°05'31", long 95°24'21", Harris-Montgomery County line, at the bridge on the Riley-Fussell Road, 1.1 mi (1.8 km) northeast of Spring, 2.7 mi (4.3 km) downstream from the Missouri-Pacific Railroad Co. bridge, 3.6 mi (5.8 km) downstream from former station 08068500 at the bridge on Interstate Highway 45, and 6.9 mi (11.1 km) upstream from Cypress Creek.

DRAINAGE AREA: 419 mi² (1,085 km²).

PERIOD OF RECORD: April 1939 to December 1975. Formerly published as "Spring Creek near Spring".

GAGE: Water-stage recorder. Datum of gage is 62.17 ft (18.949 m) above mean sea level, datum of 1929. Prior to Jan. 5, 1946, nonrecording gage, and Jan. 6, 1946 to Oct. 1, 1965, water-stage recorder at site 3.6 mi (5.8 km) upstream at datum 15.93 ft (4.855 m) higher, unadjusted for land-surface subsidence. Oct. 2, 1965 to December 31, 1975, water-stage recorder at former site at datum 10.93 ft (3.331 m) higher, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 37 years, 148,644 ac-ft/yr (183.3 hm³/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 42,700 ft³/s (1,210 m³/s) Nov. 25, 1940 (gage height, 33.60 ft or 10.241 m, former site and datum, from graph based on gage readings); minimum, 1.1 ft³/s (0.031 m³/s) Oct. 23, 24, 1956.

Maximum stage since at least 1879, 34.3 ft (10.45 m), former site and datum, May 30, 1929 (discharge, 48,300 ft³/s or 1,370 m³/s), from floodmarks identified by, local residents.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	1650	1810	7530	3810	1080	771	635	794	1360	-
1940	1450	5750	1260	2080	1750	17510	6020	857	588	996	150900	119800	308961
1941	21080	30470	57580	115600	23480	38830	8760	2670	22460	19800	32550	4150	377430
1942	3660	5920	6390	70340	4110	9250	11590	2300	5400	2040	7990	9110	138100
1943	26430	3230	6870	2860	8170	5060	35310	8470	1600	1320	1710	3610	104640
1944	34510	28970	42940	4530	31810	5830	1710	2430	1860	1340	9930	42120	207980
1945	53090	25340	7260	103300	37960	3890	2300	74300	12680	5590	2390	11140	339240
1946	48370	56060	30310	5500	73030	35290	35460	2340	2400	8040	134000	10710	441510
1947	70930	5900	9350	3770	32520	3510	2010	1800	1460	1170	1860	7520	141800
1948	4170	8250	9700	5660	3090	1300	1190	823	1330	819	1250	1260	38842
1949	3890	19650	29530	32850	4910	2160	2740	1940	2050	44300	2250	25410	171680
1950	36790	39650	7330	23690	15970	86940	5580	1610	1250	1050	1040	1160	222060
1951	1570	1680	2680	2040	1350	1300	823	569	2810	857	1050	1250	18179
1952	1380	6380	2070	35750	12600	2710	1690	1080	642	469	1140	3310	69221
1953	1810	4640	1510	10270	83270	1860	1430	1640	1600	2250	3340	15650	129270
1954	8290	3450	1620	1680	1290	764	2700	926	352	3210	1680	2180	28142
1955	3730	20870	1910	2450	1400	716	595	747	932	396	349	612	34707
1956	1480	3240	902	984	560	488	343	175	230	188	211	546	9347
1957	278	730	4650	8060	24460	5950	758	452	1280	22460	30880	7390	107348
1958	57730	22560	4340	2720	13790	805	481	354	2180	1510	817	712	107999
1959	877	7370	1770	71180	29510	7020	3520	2280	936	2650	4280	13300	144693
1960	20860	31690	5500	4640	13570	66920	17690	15340	5850	27130	53910	50150	313250
1961	64590	82850	6760	6190	2220	29920	25710	1890	62330	2210	3150	3170	291010
1962	4120	3010	2730	3470	1950	2230	1390	544	910	960	5340	10030	36684
1963	7980	13090	4270	2110	2580	1220	1400	466	339	356	376	1110	35297
1964	1130	3440	10480	9500	4330	2810	571	529	737	697	2280	3070	39574
1965	3520	16110	3310	1880	6680	6050	879	525	924	562	2250	8140	50830
1966	10030	27720	5470	8440	37120	3050	810	1750	1480	5950	952	1180	103952
1967	1440	958	976	1740	1150	881	501	449	4840	1180	797	1610	16522
1968	20610	1860	4310	5890	93320	62800	6450	1710	6040	6480	4660	20320	234450
1969	3860	54580	29520	9620	15870	1370	773	498	766	492	1680	1820	120849
1970	1540	1800	10562	7280	8010	3630	714	374	1140	12710	1540	1080	50384
1971	940	950	710	784	1240	391	367	1310	555	608	404	4860	13119
1972	1920	1790	5450	8140	71040	3790	855	834	850	2130	16810	2950	116559
1973	20660	36130	42410	89150	11390	90360	4560	6000	30030	74080	19070	23680	447520
1974	78360	8390	7480	3530	7290	2180	983	2150	27730	4680	50370	30220	223363
1975	16670	26520	11280	72350	23070	12880	9280	6870	2170	5550	4930	9010	200580
MAX	78360	82850	57580	115600	93320	90360	35460	74300	62330	74080	150900	119800	447520
MIN	278	730	710	784	560	391	343	175	230	188	211	546	9347
MEAN	17771	16972	10594	20045	19126	14303	5453	4056	5716	7213	15106	12289	148644
NO.	36	36	36	37	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	12.0%	11.4%	7.1%	13.5%	12.9%	9.6%	3.7%	2.7%	3.8%	4.9%	10.2%	8.3%	100%

SAN JACINTO RIVER BASIN

08068700 Cypress Creek at Sharp Road near Hockley, Texas

LOCATION: Lat 29°55'15", long 95°50'24", Harris County, at the bridge on Sharp Road, 3.3 mi (5.3 km) upstream from the gage on Cypress Creek at the Katy-Hockley Road bridge near Hockley (station 08068720), and 7.4 mi (11.9 km) south of Hockley.

DRAINAGE AREA: 80.7 mi² (209.0 km²).

PERIOD OF RECORD: June to December 1975.

GAGE: Water-stage recorder. Datum of gage is 100.00 ft (30.480 m) above mean sea level, datum of 1929, adjustment of 1973.

REMARKS: Records fair. Diversions and return flow for irrigation occur upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	8880	1520	1100	269	673	348	591	-
MAX	-	-	-	-	-	8880	1520	1100	269	673	348	591	-
MIN	-	-	-	-	-	8880	1520	1100	269	673	348	591	-
MEAN	-	-	-	-	-	8880	1520	1100	269	673	348	591	13381
NO.	0	0	0	0	0	1	1	1	1	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	66.4%	11.4%	8.2%	2.0%	5.0%	2.6%	4.4%	100%

SAN JACINTO RIVER BASIN

08068720 Cypress Creek at Katy-Hockley Road near Hockley, Texas

LOCATION: Lat 29°57'00", long 95°48'29", Harris County, at the bridge on Katy-Hockley Road, 3.3 mi (5.3 km) downstream from the gage on Cypress Creek at Sharp Road near Hockley (station 08068700), 5.6 mi (9.0 km) southeast of Hockley, and 6.3 mi (10.1 km) upstream from the gage on Cypress Creek at the House and Hehl roads bridge near Cypress (station 08068740).

DRAINAGE AREA: 110 mi² (285 km²).

PERIOD OF RECORD: June to December 1975.

GAGE: Water-stage recorder, Concrete weir located 0.9 mi (1.4 km) downstream from the gage. Datum of gage is 100.00 ft (30.480 m) above mean sea level, datum of 1929, adjustment of 1973.

REMARKS: Records fair, Diversions and return flow for irrigation occur upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	10770	1810	1170	285	984	425	1130	-
MAX	-	-	-	-	-	10770	1810	1170	285	984	425	1130	-
MIN	-	-	-	-	-	10770	1810	1170	285	984	425	1130	-
MEAN	-	-	-	-	-	10770	1810	1170	285	984	425	1130	16574
NO.	0	0	0	0	0	1	1	1	1	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	65.0%	10.9%	7.1%	1.7%	5.9%	2.6%	6.8%	100%

SAN JACINTO RIVER BASIN

08068740 Cypress Creek at House and Hahl Roads near Cypress, Texas

LOCATION: Lat 28°57'32", Long 95°43'03", Harris County, at the bridge on House and Hahl roads, 1.4 mi (2.3 m) southwest of Cypress, and 6.3 mi (10.1 km) downstream from the gage on Cypress Creek at the Katy-Hockley Road near Hockley (station 08068720).

DRAINAGE AREA: 131 mi² (339 km²).

PERIOD OF RECORD: June to December 1975.

GAGE: Water-stage recorder. Datum of gage is 100.00 ft (30.480 m) above mean sea level, datum of 1928, adjustment of 1973.

REMARKS: Records fail. Diversions and irrigation return flow occur upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	13120	2170	1560	456	1250	623	1300	-
MAX	-	-	-	-	-	13120	2170	1560	456	1250	623	1300	-
MIN	-	-	-	-	-	13120	2170	1560	456	1250	623	1300	-
MEAN	-	-	-	-	-	13120	2170	1560	456	1250	623	1300	20479
NO.	0	0	0	0	0	1	1	1	1	1	1	1	0
DISTR OF MEAN	0%	0%	0%	0%	0%	64.1%	10.6%	7.6%	2.2%	6.1%	3.0%	6.3%	100%

SAN JACINTO RIVER BASIN

08069000 Cypress Creek near Westfield, Texas

LOCATION: Lat 30°02'08", Long 96°26'43", Harris County, at the bridge on U.S. Highway 75, 0.9 mi (1.4 km) upstream from Senger Gully, 1.8 mi (2.9 km) northwest of Westfield, 2.0 mi (3.2 km) upstream from the Missouri-Pacific Railroad Co. bridge, and 11.0 mi (17.7 km) upstream from the mouth.

DRAINAGE AREA: 285 mi² (738 km²).

PERIOD OF RECORD: July 1944 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 63.89 ft (19.474 m) above mean sea level, datum of 1929, adjustment of 1943; unadjusted for land-surface subsidence. Prior to Mar. 17, 1951, water-stage recorder at the bridge at datum 12.00 ft (3.658 m) higher.

AVERAGE DISCHARGE: 32 years, 109,578 ac-ft/yr (135.1 hm³/yr).

EXTREMES: Period of record (1944-75): Maximum discharge, 22,100 ft³/s (626 m³/s) Oct. 8, 1949 (gage height, 33.44 ft or 10.193 m, present datum); no flow at times.

Maximum stage since at least 1875, 34 ft (10.4 m), present datum, in May 1929 (discharge, 26,000 ft³/s or 736 m³/s), from information by a local resident.

REMARKS: Records fair. No diversion above station. The low flow is maintained by sewage effluent. The channel below the gage was rectified in 1950-51 and again in 1975.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	305	1430	3900	735	13790	35600	-
1945	48070	13620	2050	63600	5750	1240	330	34590	31620	6660	1100	32290	240920
1946	46350	41400	9850	1830	57320	31630	16890	550	1950	10310	106400	7940	332420
1947	53520	1280	7500	505	28320	2900	824	1890	788	184	373	7600	105684
1948	1500	2640	2720	2530	1280	139	181	5.40	150	73.0	224	44.0	11486
1949	2060	12600	14810	27550	5470	185	1850	3530	1340	73680	480	22390	165945
1950	12320	29560	1790	6680	8160	55120	10720	197	1790	473	43.0	9.1	126862
1951	37.0	78.0	1470	1020	451	889	255	101	5970	470	388	1250	12379
1952	323	5800	845	36780	13270	2310	554	186	663	180	1460	6410	68781
1953	1270	5080	468	11090	77480	286	533	1590	4140	1080	4910	8990	116917
1954	5790	150	24.0	188	355	128	21000	2570	106	3630	623	2300	36864
1955	3110	15670	92.0	305	286	361	812	1700	969	158	1.40	84.0	23548
1956	1680	2350	13.0	402	109	321	272	8.70	72.0	7.70	68.0	514	5817
1957	86.0	210	12670	9910	10790	977	59.0	61.0	1800	27270	21260	2660	87753
1958	42780	11540	913	662	3680	98.0	16.0	150	6160	2170	406	14.0	68589
1959	62.0	7440	464	49700	20000	7500	2520	5560	1120	2380	4200	9600	110546
1960	14910	19400	1800	2100	5930	68840	36120	9140	3630	23580	33440	31350	250240
1961	28510	47870	1890	2760	304	30210	20430	1830	51300	466	2990	1090	189650
1962	467	1100	252	890	619	1910	1480	376	1180	206	6480	4850	19810
1963	4390	6590	529	89.0	798	1140	1590	520	440	333	359	1390	18168
1964	868	4210	13760	4650	6830	3460	533	552	1270	925	1740	1390	40188
1965	2330	9320	422	194	8270	2340	636	597	1840	1760	6280	12140	46129
1966	7730	24540	2890	14380	43130	2980	547	1710	6370	1360	130	244	106011
1967	711	113	54.0	1080	532	1400	574	562	5210	2550	219	1040	14045
1968	24320	560	1800	411	62300	49780	6480	530	7410	4370	10360	16820	185141
1969	2290	44870	13450	3790	14400	827	1060	909	1610	640	2750	2460	89056
1970	1560	1300	13040	7320	12260	2750	998	417	2510	33280	3970	259	79664
1971	115	257	78.0	613	2770	251	389	5010	3170	2290	283	17830	33056
1972	5230	4900	5960	1510	71150	9700	1810	1030	1420	4410	17150	3280	127550
1973	16580	25130	23360	67440	5510	64630	8220	6160	19940	56980	8670	20000	322620
1974	50820	3780	7550	1040	10380	838	2490	5230	41270	4470	42710	29710	200288
1975	8540	16770	6320	50460	20100	18020	6460	3980	1430	5020	2820	5960	145880
MAX	53520	47870	23360	67440	77480	68840	36120	34590	51300	73680	106400	35600	332420
MIN	37.0	78.0	13.0	89.0	109	98.0	16.0	5.40	72.0	7.70	1.40	9.1	5817
MEAN	12527	11617	4801	11983	16065	11715	4592	2896	6642	8503	9252	8985	109578
NO.	31	31	31	31	31	31	32	32	32	32	32	32	31
DISTR OF MEAN	11.4%	10.6%	4.4%	10.9%	14.7%	10.7%	4.2%	2.6%	6.1%	7.8%	8.4%	8.2%	100%

SAN JACINTO RIVER BASIN

08069500 West Fork San Jacinto River near Humble, Texas

LOCATION: Lat 30°01'37", long 95°15'28", Harris County, at the bridge on U.S. Highway 59, 1,160 ft (353.6 m) upstream from the Texas and New Orleans Railroad Co. bridge, 0.5 mi (0.8 km) downstream from Spring Creek, and 2.5 mi (4.0 km) north of Humble.

DRAINAGE AREA: 1,811 mi² (4,690.5 km²).

PERIOD OF RECORD: October 1928 to September 1954. Prior to 1938, published as "San Jacinto River near Humble".

GAGE: Water-stage recorder. Datum of gage is 30.53 ft (9.3 m) above mean sea level, datum of 1929, October 23, 1928 to July 16, 1933, chain gage at site 3,000 ft (914.4 m) downstream at same datum, July 17, 1933 to March 5, 1939, chain gage at present site and datum.

AVERAGE DISCHARGE: 27 years, 794,656 ac-ft/yr (979.8 hm³/yr).

EXTREMES: Period of record (1928-54): Maximum discharge, 187,000 ft³/s (5,295.8 m³/s) May 31, 1929 and November 25, 26, 1940; maximum gage height, 32.7 ft (10.0 m) May 31, 1928 and November 26, 1940, present site and datum; minimum discharge, 11 ft³/s (0.31 m³/s) August 31 and September 1, 2, 1951.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	-	-	-	-	-	-	2510	3260	9350	-
1929	65200	22000	102000	218000	639000	389000	62100	6270	4750	2950	74400	32400	1618070
1930	113000	162000	80600	21300	75000	6190	2770	2370	2620	13000	8990	120000	607840
1931	108000	156000	189000	27300	56300	4960	4290	2510	1800	1700	7860	59800	619520
1932	280000	181000	103000	18700	24700	6660	3760	4060	3360	2850	2570	9780	640440
1933	16400	78900	103000	23400	6700	3420	3950	4140	3520	2200	2120	3130	250880
1934	76900	228000	191000	173000	7560	2900	2240	1910	3820	8030	17770	91060	804210
1935	74040	108500	76730	152100	686300	23630	10080	7130	17120	7050	38680	427300	1628660
1936	24930	39340	16240	9220	201200	40850	202200	7840	10240	6790	3670	30060	592580
1937	118700	23820	85420	43600	4690	4070	3320	5000	4220	23320	10180	55100	381440
1938	66960	64440	39780	44470	144900	16150	8490	4350	8110	2080	3830	10020	413580
1939	96190	79780	54020	7130	5470	39960	14690	3890	2440	1930	2700	12510	320710
1940	7620	57790	8380	15930	24800	110700	35040	2860	2420	2670	717800	491000	1477010
1941	129600	132800	226100	330600	110700	261600	55980	8110	99130	101500	207400	21380	1684900
1942	22020	28050	31060	252300	61140	68090	73710	12260	30270	7400	36000	67220	689520
1943	144900	15180	36800	15150	31060	42360	94280	51040	4370	4550	10520	27280	477490
1944	209300	176000	180400	22400	184000	37890	5610	8020	16070	5350	66390	196600	1107230
1945	225700	154400	57220	418300	129500	34100	12120	141100	136600	28450	9200	74690	1419380
1946	220000	235300	183700	28110	279200	152700	91160	6670	13150	65330	563000	55790	1894110
1947	311700	26930	119700	14540	129400	19140	7800	6260	5480	3910	6550	43550	694960
1948	21730	59010	82780	35210	17750	4470	4240	2300	2840	2120	3900	3750	240100
1949	18120	90220	161300	157700	25700	7640	14230	9770	7920	253900	11810	149800	908110
1950	189600	217900	48670	69840	94340	305700	29590	5500	9900	5680	3950	4300	984978
1951	6790	10440	20520	15140	4750	4800	2580	1560	13210	3430	3680	5790	92690
1952	4960	35410	22030	151800	58110	15730	5220	2620	2210	1470	4910	16360	320830
1953	18500	38440	19590	47940	395000	7590	5290	4740	11460	5620	22670	74810	651650
1954	33650	11260	7040	7560	13840	2640	39120	8570	1410	-	-	-	-
MAX	311700	235300	226100	418300	686300	389000	202200	141100	136600	253900	717800	491000	1894110
MIN	4960	10440	7040	7130	4690	2640	2240	1560	1410	1470	2120	3130	92690
MEAN	100173	93573	86388	89259	131197	62005	30533	12340	16094	21684	70916	80494	794656
NO.	26	26	26	26	26	26	26	26	26	26	26	26	25
DISTR													
OF MEAN	12.6%	11.8%	10.9%	11.2%	16.5%	7.8%	3.8%	1.6%	2.8%	2.7%	8.9%	10.1%	100%

SAN JACINTO RIVER BASIN

0807000 East Fork San Jacinto River near Cleveland, Texas

LOCATION: Lat 30°20'11", long 95°06'14", Liberty County, at the bridge on State Highway 105, 1,880 ft (570 m) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) west of Cleveland, and 4.3 mi (6.9 km) downstream from Winter Creek.

DRAINAGE AREA: 325 mi² (842 km²).

PERIOD OF RECORD: May 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 107.98 ft (32,812 m) above mean sea level, datum of 1929, supplementary adjustment of 1936. Prior to Sept. 13, 1956, at site 1,800 ft (549 m) upstream at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE: 37 years, 160,546 ac-ft/yr (198.0 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 59,000 ft³/s (1,670 m³/s) Nov. 24, 1940 (gage height, 24.1 ft or 7.35 m, present site and datum); minimum daily, 3.0 ft³/s (0.085 m³/s) Aug. 23, 24 and Sept. 27, 28, 1956.

Maximum stage since at least 1900, that of Nov. 24, 1940.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	2110	2710	1230	918	578	612	1320	3400	-
1940	2120	16410	2260	8900	4490	17190	11640	926	669	867	184500	99160	349132
1941	23640	32720	30200	46730	31870	64310	6010	2210	8630	33310	58120	7690	345440
1942	8460	9150	12850	52040	37090	24450	5430	7010	8430	2460	7320	28620	203310
1943	34930	6000	11720	9150	4550	3130	11240	3930	1430	1260	1780	3390	92510
1944	24630	26130	19780	5030	33980	4210	1620	2310	2890	998	8220	32770	162568
1945	48520	49740	20960	137000	5870	4230	9950	9170	8770	3490	2240	11350	311290
1946	43800	54070	33780	5900	46460	30930	30580	2180	1870	6010	156600	12390	424570
1947	72470	7140	39380	4760	10640	2440	1780	1680	1390	1180	1990	4520	149370
1948	3560	6450	8810	13070	5670	1560	1980	881	916	805	1350	1490	46542
1949	5330	36960	38910	42920	4340	3850	2680	1290	1510	63410	3660	40340	245200
1950	52000	47420	15830	13010	20090	54130	3130	1490	1580	1390	1410	1730	213210
1951	2330	2970	6610	2980	1600	1510	885	520	1110	823	934	1690	23962
1952	2080	6630	4460	25780	15520	2170	1040	666	722	491	1310	4780	65649
1953	4760	17000	5370	29300	77030	2020	1450	1360	1110	843	1320	6200	147763
1954	7370	3750	1850	3530	4460	714	2310	3600	482	2090	3190	2230	35576
1955	6720	37800	2670	7950	2590	896	685	758	853	703	620	1080	63325
1956	2500	6900	3890	4200	1200	1300	400	339	265	345	570	896	22805
1957	801	1380	8130	16760	28460	9500	1540	1410	2660	29370	68780	23270	192061
1958	47580	19040	5840	3880	14610	1120	886	823	12470	5650	2150	2040	115889
1959	1790	15140	3980	82970	7450	7590	8750	5770	1370	3920	4670	12070	155470
1960	22070	31820	7370	3950	7520	33440	11350	4570	2730	28240	52780	46060	251900
1961	61930	63470	9498	7490	2000	9200	14640	2340	53210	3440	4060	7700	238970
1962	10570	5520	5280	10460	4730	2310	1230	906	2870	1380	2920	32810	80986
1963	17100	16670	6500	3840	1110	2030	2180	742	1150	649	3280	9540	64791
1964	10280	13120	35410	30700	6230	2940	889	855	1260	707	1320	2200	105911
1965	2530	16470	5250	3690	4560	4380	843	801	807	798	1200	8160	49489
1966	11880	29630	6440	27850	25280	2400	958	3860	1770	2670	1100	1880	115718
1967	2600	2960	2570	6450	2270	11270	618	448	517	568	691	1990	32952
1968	12220	1980	10820	21850	58540	86590	3680	890	933	5130	4030	21450	228113
1969	4470	30990	37440	21450	52870	1800	823	619	724	874	1070	2110	155240
1970	3560	3240	13860	11140	5310	1310	686	619	916	1990	1060	1250	44941
1971	1160	1120	1050	924	5700	751	350	631	543	1740	792	8240	23001
1972	7710	4110	5390	3890	22960	953	1110	1180	1250	1050	8720	9190	67513
1973	22800	23390	46020	60540	29590	120400	12520	6010	15900	39050	28350	32700	437270
1974	105300	13870	10030	4560	3580	2700	1690	3390	34680	29990	96380	33260	339430
1975	41760	31560	16140	40020	57370	15540	9690	9030	3500	6270	6500	13210	250590
MAX	105300	63470	46020	137000	77030	120400	30580	9170	53210	63410	184500	99160	437270
MIN	801	1120	1050	924	1110	714	350	339	265	345	570	896	22805
MEAN	20370	19242	13767	21518	17559	14540	4548	2328	4931	7691	19630	14402	160546
NO.	36	36	36	36	37	37	37	37	37	37	37	37	36
DISTR OF MEAN	12.7%	12.0%	8.6%	13.4%	10.9%	9.1%	2.8%	1.4%	3.1%	4.8%	12.2%	9.0%	100%

SAN JACINTO RIVER BASIN
08070500 Caney Creek near Splendora, Texas

LOCATION: Lat 30°15'34", long 95°18'08", Montgomery County, at the bridge on Farm Road 2090, 4 mi (6 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 8 mi (13 km) west of Splendora.

DRAINAGE AREA: 105 mi² (272 km²).

PERIOD OF RECORD: October 1943 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 118.44 ft (36.101 m) above mean sea level, datum of 1929, adjustment of 1943. Prior to June 17, 1965, at site 170 ft (52 m) upstream at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE: 33 years, 51,209 ac-ft/yr (63.1 km³/yr).

EXTREMES: Period of record (1943-75): Maximum discharge, 35,000 ft³/s (991 m³/s) June 14, 1973 (gage height, 26.30 ft or 8.016 m); minimum, 4.1 ft³/s (0.116 m³/s) Oct. 26, 1966, caused by construction upstream.

Maximum stage since at least 1885, 27.0 ft (8.23 m) in November 1940, present site and datum, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1943	-	-	-	-	-	-	-	-	-	1000	1500	1880	-
1944	10990	7550	8670	2100	12420	2480	1200	1410	1260	891	4780	15790	69541
1945	15970	14590	7490	36090	3360	2220	1770	5780	1730	1450	1250	4500	96200
1946	12860	13480	7720	2830	12240	7130	11380	1430	1600	3110	48600	5110	127490
1947	22610	3370	7540	2240	4460	1700	1410	1220	956	1010	1330	2280	50126
1948	2330	4490	3130	3630	1860	994	1010	772	758	694	918	924	21510
1949	2820	11750	12190	10040	1950	1200	1410	1090	910	23450	1760	11640	80210
1950	15290	11990	4400	5060	10160	16590	1920	1120	1480	1080	1080	1170	71340
1951	1390	1760	2610	1410	1020	1010	730	643	832	706	869	1200	14380
1952	1140	3340	1910	8400	5510	1190	1000	638	562	576	1060	2130	27456
1953	1200	3770	1740	8600	11640	1170	835	764	725	657	912	2730	34743
1954	2350	1440	1010	1330	1720	599	2010	1310	525	1540	1710	1320	16864
1955	2380	7720	1290	2410	1240	776	809	608	699	659	531	744	19866
1956	1380	3550	1460	1280	847	924	510	412	351	404	488	643	12249
1957	655	906	2020	4930	3780	3350	717	588	1410	8740	11680	6020	44796
1958	13590	5580	2590	3130	3940	865	615	553	2350	2570	1470	1250	38503
1959	1220	6000	1690	22960	2740	2640	2210	1890	1210	3110	2910	4250	52830
1960	7940	10070	2880	2600	1810	14330	8920	6710	1780	15150	12550	12980	97720
1961	15270	20440	3940	4430	1640	6870	8670	2280	17620	2370	2670	3150	89350
1962	3660	2750	2670	4730	1760	1980	1010	867	1380	990	2390	10220	34607
1963	4220	4450	2620	1670	996	835	1530	725	716	643	3980	5550	27935
1964	4400	5670	11040	7060	2180	1690	713	570	876	677	982	1120	36978
1965	1350	5780	1650	1360	3570	1740	604	797	771	621	687	2440	21370
1966	2810	7090	1990	7470	11430	1180	839	1160	768	838	887	954	37216
1967	1100	1060	1100	1750	1690	4590	764	647	1090	696	635	1390	16512
1968	5390	1100	4210	6980	13660	22970	1890	1040	918	3940	1780	7150	71028
1969	1880	11850	10560	6080	13240	1250	714	519	842	834	855	1320	49944
1970	1370	1870	5640	4360	2790	1360	820	699	753	1160	778	805	22405
1971	831	758	753	810	3240	619	447	669	615	642	538	2700	12622
1972	2550	1360	1940	1450	7460	865	681	694	593	682	4490	2600	25365
1973	7550	7930	15090	19630	9990	5010	4360	3780	11100	15820	10090	9430	119780
1974	27140	5410	4240	2040	2520	2240	1130	2840	11080	11990	33080	10270	113900
1975	11860	10590	5360	18300	14500	6590	5310	2600	3000	4070	3140	6830	92150
MAX	27140	20440	15090	36090	14500	22970	11380	6710	17620	23450	48600	15790	127490
MIN	655	758	753	810	847	599	447	412	351	404	488	643	12249
MEAN	6484	6233	4486	6474	5355	3717	2123	1463	2224	3417	4915	4318	51209
NO.	32	32	32	32	32	32	32	32	32	33	33	33	32
Q1STR													
OF MEAN	12.7%	12.2%	8.8%	12.6%	10.5%	7.3%	4.1%	2.9%	4.3%	6.7%	9.6%	8.4%	100%

SAN JACINTO RIVER BASIN
09071000 Peach Creek at Splendora, Texas

LOCATION: Lat 30°13'57", long 95°10'05", Montgomery County, at the bridge on Farm Road 2090, 1,500 ft (457 m) west of the railroad depot at Splendora, 2.5 mi (4.0 km) upstream from the Texas and New Orleans Railroad Co. bridge, 2.5 mi (4.0 km) upstream from the bridge on U.S. Highway 59, and 8.7 mi (16.6 km) upstream from Caney Creek.

DRAINAGE AREA: 117 mi² (303 km²).

PERIOD OF RECORD: October 1943 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 81.61 ft (24.875 m) above mean sea level, datum of 1929, adjustment of 1936. Prior to Oct. 1, 1965, at same site and 5.00 ft (1.524 m) higher datum.

AVERAGE DISCHARGE: 33 years, 52,991 ac-ft/yr (65.3 hm³/yr).

EXTREMES: Period of record (1943-75): Maximum discharge, 28,500 ft³/s (807 m³/s) Oct. 8, 1949 (gage height, 22.73 ft or 6.928 m); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 28-30, 1956.

Maximum stage since at least 1895, that of Oct. 8, 1949.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1943	-	-	-	-	-	-	-	-	-	1070	1640	2100	-
1944	8060	7150	10970	3120	14950	2290	1210	1760	1650	1010	3560	9770	65500
1945	12060	13190	5050	29040	4220	3020	2370	7900	2260	2310	1730	4130	87280
1946	9970	19430	9940	3100	10620	7960	11600	1660	1660	3940	50580	6840	137300
1947	24670	4900	8070	2970	7260	1870	1370	1230	1150	1010	1560	3800	59860
1948	3530	5270	3790	4230	2380	1110	1160	732	730	744	1110	1170	25956
1949	2180	8780	20700	11230	3140	2380	3570	1560	954	55830	2260	15150	127734
1950	24540	14590	7220	5600	11280	11130	2190	1250	1160	1040	1180	1390	82570
1951	1920	1980	2720	1670	1090	1220	665	505	879	726	887	1300	15562
1952	1380	2630	1840	9010	3730	1110	912	684	542	513	1170	2170	25691
1953	1830	3450	2250	14440	19630	1070	817	885	877	635	1030	2260	49174
1954	2590	1400	1110	1100	1110	486	2370	1390	352	2010	954	1110	15982
1955	1810	7180	1410	2130	1040	602	544	628	703	590	438	809	17888
1956	1390	2020	1380	1280	671	789	267	192	147	169	330	654	9289
1957	652	946	2880	3140	3790	5310	495	401	1720	8140	10060	4250	41784
1958	16820	8690	3580	2750	3460	662	551	378	1540	1610	1520	1410	42971
1959	1360	4190	2040	13700	2990	1670	5330	2660	1130	2200	1920	5620	48810
1960	8540	9750	3480	2100	2180	7160	2290	2350	1450	15170	9790	11960	76220
1961	17790	24950	6710	4270	1650	10300	7830	1880	20340	2760	3200	4250	105930
1962	3930	3480	2860	2920	2750	2130	1160	701	1250	918	1350	3360	26809
1963	3200	4120	2160	1500	805	749	824	501	697	591	1700	2420	19267
1964	2480	3640	7810	5230	1900	1660	571	585	673	548	856	1140	27093
1965	1290	1880	1690	1230	1240	695	411	630	623	602	917	2270	13478
1966	2980	8140	2140	4180	8180	1390	613	1240	703	760	666	1070	32062
1967	1300	1040	1070	1230	677	933	350	376	1440	572	531	1210	10729
1968	2710	1160	1730	1640	12680	18600	1560	530	742	1360	1040	3010	46762
1969	2020	7260	8530	4370	12130	997	467	376	521	565	932	1550	39718
1970	1600	1580	5220	4240	5360	1280	446	336	536	1950	745	782	24275
1971	942	795	703	544	2120	435	225	450	447	573	511	2980	10725
1972	2470	1460	2140	1560	9830	594	667	651	533	704	6920	3380	30909
1973	7150	14590	13410	19440	8320	47550	16640	5260	10590	11660	4750	14260	173620
1974	38650	6450	5890	2800	2520	1640	1060	1870	6850	4880	25120	20480	118210
1975	12860	11070	8230	18310	13460	7570	5890	5640	2200	3290	3480	6500	98500
MAX	38650	24950	20700	29040	19630	47550	16640	7900	20340	55830	50580	20480	173620
MIN	652	795	703	544	671	435	225	192	147	169	330	654	9289
MEAN	7027	6474	4960	5752	5536	4574	2388	1475	2095	3953	4377	4380	52991
NO.	32	32	32	32	32	32	32	32	32	33	33	33	32
Q1STR													
OF MEAN	13.3%	12.2%	9.4%	10.9%	10.4%	8.6%	4.5%	2.8%	4.0%	7.5%	8.3%	8.3%	100%

SAN JACINTO RIVER BASIN

08071500 San Jacinto River near Huffman, Texas

LOCATION: Lat 29°59'40", long 95°08'00". Harris County, at the Beaumont, Sour Lake, and Western Railway bridge, 0.4 mi (0.6 km) downstream from the confluence of the East and West Forks, and 3.4 mi (5.5 km) southwest of Huffman.

DRAINAGE AREA: 2,791 mi² (7,228.7 km²).

PERIOD OF RECORD: October 1936 to September 1953.

GAGE: Water-stage recorder. Datum of gage is 1.93 ft (0.6 m) above mean sea level, datum of 1929. Prior to July 10, 1941, wire-weight gage at same site and datum.

AVERAGE DISCHARGE: 18 years, 1,418,214 ac-ft/yr (1,748.6 km³/yr).

EXTREMES: Period of record (1936-53): Maximum discharge, 253,000 ft³/s (7,165.0 m³/s) November 26, 1940 (gage height, 51.2 ft or 15.6 m); minimum, 49 ft³/s (1.4 m³/s) September 1, 1939 and September 13, 14, 1940.

Maximum stage known since at least 1876, that of November 26, 1940.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	-	-	-	-	22460	11770	62090	-
1937	202400	42590	165200	77100	11670	9990	8090	9720	9350	36300	16350	84030	672790
1938	129000	108000	56530	58160	195000	28820	20250	9060	12120	5550	8490	16340	647320
1939	162000	152800	115400	16980	14460	52980	35830	6460	3970	4100	5730	19030	589740
1940	13030	82500	14480	37430	39280	136100	53160	6920	5000	4880	1304000	860000	2556780
1941	170100	233800	375300	568600	209300	485900	75150	17810	212900	167400	440800	47870	3004930
1942	47930	59630	79510	465400	123600	133500	125900	58850	88250	16280	53810	108300	1360960
1943	236500	32050	71520	37350	54320	58000	145600	91900	11440	8910	20660	47890	818140
1944	301700	237200	256300	39080	289800	54970	11910	13530	27350	9770	88230	274700	1604540
1945	369600	267800	113500	763700	170100	72180	36900	165600	221900	44690	18790	153800	2398560
1946	364200	396200	288900	46440	421800	260600	213800	15560	21920	85160	1186000	120500	3421080
1947	553700	46600	208700	33590	167200	28740	14800	11980	9570	8060	13500	72110	1168550
1948	41700	114700	121900	65710	31780	8970	9580	5320	6410	5010	7880	8000	426960
1949	31250	156100	329700	278800	41760	19430	28740	17470	12750	683600	24130	321000	1944730
1950	397600	368900	98250	108400	179600	457000	37120	10700	11880	9870	7920	9290	1696530
1951	13710	16440	40210	25210	9990	9870	5570	4060	19100	6540	7120	11950	169770
1952	10040	62410	29540	258500	128900	27360	11480	5060	5320	3340	8880	29620	580390
1953	38420	91860	40010	64350	655200	21730	12340	10290	17320	-	-	-	-
MAX	553700	396200	375300	763700	655200	485900	213800	165600	221900	683600	1304000	860000	3421080
MIN	10040	16440	14480	16980	9990	8970	5570	4060	3970	3340	5730	8000	169770
MEAN	181464	145269	141468	173224	161398	109773	49778	27072	40974	65995	189651	132148	1418214
NO.	17	17	17	17	17	17	17	17	17	17	17	17	16
DISTR													
OF MEAN	12.8%	10.2%	10.0%	12.2%	11.4%	7.7%	3.5%	1.9%	2.9%	4.7%	13.4%	9.3%	100%

SAN JACINTO RIVER BASIN
08072000 Lake Houston near Sheldon, Texas

LOCATION: Lat 29°54'58", long 95°08'28", Harris County, at the intake structure on the San Jacinto River near the right bank 100 ft (30 m) upstream from Lake Houston Dam, 4.0 mi (6.4 km) north of Sheldon, 4.8 mi (7.4 km) upstream from the bridge on U.S. Highway 90, and 18 mi (29.0 km) northeast of Houston.

DRAINAGE AREA: 2,828 mi² (7,325 km²) at dam.

PERIOD OF RECORD: April 1954 to December 1975.

GAGE: Water-stage recorder. Datum of gage at dam is 0.70 ft (0.213 m) below mean sea level, datum of 1929, adjustment of 1959; unadjusted for land-surface subsidence. Prior to Aug. 3, 1954, nonrecording gage.

EXTREMES: Period of record (1954-75): Maximum contents, 210,000 ac-ft (268.9 hm³) June 15, 1973 (gage height, 49.08 ft or 14.960 m); minimum contents since the first filling of the lake in August 1954, 53,390 ac-ft (65.8 hm³) Dec. 1, 1971 (gage height, 34.06 ft or 10.388 m).

REMARKS: The lake is formed by two earthfill embankment sections and a 3,160-foot long (963-m) concrete spillway midway between the embankment sections, with a capacity of 146,700 ac-ft (180.9 hm³). The total length of the dam, including the spillway, is 12,097 ft (3,687 m). The dam was completed and storage began on Apr. 9, 1954. The spillway is a slab-and-buttress (Ambursen type) structure and includes two tainter gates, 18.0 by 20.5 ft (5.5 by 6.2 m), that can be used for control of releases below 44.5 ft (13.56 m) gage height and above 23.0 ft (8.53 m) gage height. In addition, there is a 36-inch diameter (914-millimeter) sluice gate that is used for low-flow releases. The dam is operated by the City of Houston.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1954	-	-	-	7300	23530	18700	114600	149600	139100	157000	158200	157000
1955	159500	160800	152000	159500	158200	147300	140200	143700	141400	132400	124900	124900
1956	132400	157000	157000	155800	146100	140200	121800	106600	95400	87450	81500	86600
1957	84050	87450	160800	182000	168500	160800	152000	140200	162000	160800	164500	166500
1958	168500	167200	159500	163200	159500	148500	133500	126000	162000	159500	157000	153200
1959	154500	163200	158200	162000	162000	163200	163200	162000	160800	160600	158800	164000
1960	162100	169200	160800	169200	155600	178500	161400	167200	160100	162900	163800	177500
1961	163200	164500	160200	161600	157200	162400	162100	161400	162000	101600	158500	157600
1962	164200	157100	157100	166400	154500	157400	146300	131500	131300	129200	161600	171400
1963	159000	161000	157900	155400	151100	143500	140600	126000	118900	110600	116800	149300
1964	160400	161400	159100	166200	166100	156000	141900	133500	130800	124300	150700	157200
1965	158600	162800	157200	154900	164900	153900	141000	128600	123800	108300	119200	148100
1966	151400	151700	151100	154600	149700	145400	136000	143700	143900	145300	136500	133300
1967	135400	134600	131700	143700	140400	136200	128300	116600	132000	128100	120700	130300
1968	148600	142500	148200	147700	152200	157800	147200	138100	144800	144800	152200	149400
1969	148000	152200	150200	151200	148000	137500	121700	104000	97520	87000	85050	95950
1970	100900	108000	147800	148300	155900	137200	124500	105300	102600	150200	138000	128500
1971	118500	110500	98730	89940	111700	96500	77490	75470	71400	64230	53920	130600
1972	153400	146600	148100	153800	147100	144600	139200	129400	127200	124100	149400	149800
1973	152900	152400	155700	151200	147600	150200	147600	152400	152900	156200	151300	153300
1974	160400	151300	152400	148700	148600	137800	123300	130400	151600	166600	154600	156600
1975	152700	150400	152900	152300	162500	154000	151700	152000	141700	154900	145200	157700
MAX	168500	169200	160800	182000	168500	178500	163200	167200	162000	182900	164500	177500
MIN	84050	87450	98730	7300	23530	18700	77490	75470	71400	64230	53920	86600
MEAN	147079	148193	151268	147493	146860	142164	137081	132894	134237	133458	136471	145489
NO.	21	21	21	22	22	22	22	22	22	22	22	22
DISTR OF MEAN	8.6%	8.7%	8.9%	8.7%	8.6%	8.3%	8.1%	7.8%	7.9%	7.8%	8.0%	8.5%

SAN JACINTO RIVER BASIN

08072500 Barker Reservoir near Addicks, Texas

LOCATION: Lat. 29°46'11", long 95°39'49", Harris County, at the dam on Buffalo Bayou, 45 ft (14 m) upstream from the reservoir outlet works, 1,160 ft (354 m) upstream from the Addicks-Howell county road bridge, 1.1 mi (1.8 km) south of Addicks, and 1.2 mi (1.9 km) upstream from South Mayde Creek.

DRAINAGE AREA: 134 mi² (347 km²). During extreme floods when the capacity of the drainage ditches is exceeded, the drainage area is defined by natural ridge lines and is 150 mi² (388 km²).

PERIOD OF RECORD: August 1945 to December 1975.

GAGE: Water-stage recorders. Datum of gage is 0.33 ft (0.101 m) below mean sea level, datum of 1929, unadjusted for land surface subsidence.

EXTREMES: Period of record (1945-75): Maximum contents, 39,200 ac-ft (48.3 hm³) May 15, 1968 (gage height, 84.60 ft or 26.834 m); minimum contents not determined.

REMARKS: The reservoir is formed by a rolled earthfill dam 72,900 ft (22,200 m) long. The dam was completed on Feb. 3, 1946, but was used as early as the spring of 1945 for flood control. The reservoir is operated for flood protection for the City of Houston. The controlled outlet works consists of five concrete conduits, 9 by 7 ft (2.7 by 2.1 m) wide, each controlled by a vertical slide gate. The capacity between the bottom of the conduits (gage height, 75.0 or 22.86 m) and the top of the design flood pool (gage height, 101.8 ft or 31.06 m) is 127,800 ac-ft (157.7 hm³). There is no emergency spillway, but runoff in excess of the design flood will be discharged around both ends of the dam. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1945	-	-	-	-	-	-	-	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	34.0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	79.0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	19.0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	20690	0	0	0	72.0	0	0
1961	0	11.0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	155	403
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	53.0	10.0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	122	7.00	40.0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	35.0	0	0	0	4090	8140	0	0	0	0	46.0	0
1969	0	12310	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	8680	0	0
1971	0	0	0	0	10.0	0	0	38.0	6390	0	0	14810
1972	8980	0	0	0	22450	6.00	0	0	170	38.0	368	0
1973	7.00	378	0	16550	0	6730	19.0	44.0	0	12830	3.00	422
1974	13810	124	193	4.00	11.0	4.00	7.00	182	2050	162	1530	11.0
1975	3.70	3.60	3.60	17.0	9450	3940	19.0	291	8.90	948	5.80	2210
MAX	13810	12310	193	16550	22450	20690	79.0	291	6390	12830	1530	14810
MIN	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	76.3	428	11.3	554	1202	1317	4.13	17.9	278	733	68.0	576
NO.	30	30	30	30	30	30	30	31	31	31	31	31
DISTR OF MEAN	12.8%	7.2%	.2%	9.3%	20.2%	22.1%	.1%	.3%	4.7%	12.3%	1.1%	9.7%

SAN JACINTO RIVER BASIN
08073000 Addicks Reservoir near Addicks, Texas

LOCATION: Lat 29°47'28", long 95°37'24". Harris County, at the dam on South Mayde Creek, 65 ft (20 m) upstream from the reservoir outlet works, 2,700 ft (823 m) upstream from the bridge on U.S. Highway 90, 1.2 mi (1.9 km) east of Addicks, and 1.4 mi (2.3 km) upstream from the mouth.

DRAINAGE AREA: 133 mi² (344 km²). During extreme floods when the capacity of the drainage ditches is exceeded, the drainage area is defined by natural ridge lines and is 129 mi² (334 km²).

PERIOD OF RECORD: June 1948 to December 1975.

GAGE: Water-stage recorders. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

EXTREMES: Period of record (1948-75): Maximum contents, 37,480 ac-ft (46.2 hm³) May 15, 1968 (elevation, 100.02 ft or 30.486 m); minimum contents not determined.

Flood in December 1935 reached a stage of 89.8 ft (27.40 m) at the bridge on U.S. Highway 90, 2,700 ft (823 m) downstream from the gage, from information by the Corps of Engineers.

REMARKS: The reservoir is formed by a rolled earthfill dam 61,166 ft (18,643 m) long. The dam was completed in December 1948. The reservoir is operated for flood protection for the City of Houston. The outlet works consist of five concrete conduits 8 by 8 ft (2.4 by 1.8 m) wide, each controlled by a vertical slide gate. Runoff in excess of the maximum design capacity will be discharged around both ends of the dam. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1948	-	-	-	-	-	0	0	0	0	0	0	0
1949	0	5.00	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	835.0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	68.0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	578.0	0	0	0	15.0	0	20.0
1961	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	351	15.0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	70.0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	3.00	0	0	405.0	378.0	67.0	0	0	0	48.0	34.0
1969	0	768.0	0	0	0	0	0	0	0	0	1.00	0
1970	0	0	0	0	55.0	0	0	0	0	565.0	0	0
1971	0	0	0	0	12.0	0	0	35.0	274.0	55.0	0	156.0
1972	881.0	0	80.0	0	146.0	0	0	0	94.0	2.00	324	0
1973	1.00	284	0	835.0	0	147.0	0	29.0	0	613.0	0	368
1974	1262.0	101	144	0	9.00	0	0	59.0	875	49.0	828	13.0
1975	0	0	0	12.0	668.0	815	9.2	104	.20	886	3.50	842
MAX	1262.0	768.0	144	835.0	668.0	578.0	835.0	104	274.0	613.0	828	156.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	794	299	8.30	312	461	423	301	8.11	132	457	55.6	604
NO. OF MEAN	27	27	27	27	27	28	28	28	28	28	28	28
DISTR OF MEAN	20.6%	7.8%	.2%	8.1%	12.0%	11.0%	7.8%	.2%	3.4%	11.8%	1.4%	15.7%

SAN JACINTO RIVER BASIN
08073500 Buffalo Bayou near Addicks, Texas

LOCATION: Lat 29°45'42", long 95°36'20", Harris County, at the bridge on Dairy-Ashford Road over the rectified channel, 1.8 mi (2.9 km) downstream from South Meyda Creek, and 2.8 mi (4.2 km) southeast of Addicks.

DRAINAGE AREA: 293 mi² (769 km²). During extreme floods when the capacity of the drainage ditches is exceeded, the drainage area is defined by natural ridge lines and is 310 mi² (803 km²).

PERIOD OF RECORD: September 1946 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1.40 ft (0.427 m) below mean sea level, datum of 1929, adjustment of 1973; records (unadjusted to land-surface subsidence. Prior to Feb. 2, 1948, water-stage recorder at a bridge on the natural channel 1,200 ft (366 m) to the right at the same datum. Feb. 2 to May 21, 1948, nonrecording gage at the present site and datum.

AVERAGE DISCHARGE: 31 years, 148,172 ac-ft/yr (182.7 km³/yr).

EXTREMES: Period of record (1946-75): Maximum discharge, 11,200 ft³/s (317 m³/s) Aug. 29, 1949 (gage height, 81.23 ft or 24.759 m, former site); no flow at times.

Maximum stage since at least 1896, 86.6 ft (26.09 m) in December 1935, adjusted to the former site from floodmark, 0.5 mi (0.8 km) downstream, on the basis of slope of the flood of Aug. 29, 1945, from information by a local resident.

REMARKS: Records fair. The floodflow is regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000) located 3.2 and 3.0 mi (5.1 and 4.8 km) upstream, respectively (combined capacity, 315,900 ac-ft or 388.5 km³). The extreme low flow is sustained by the drainage from irrigated lands.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1945	-	-	-	-	-	-	-	-	50690	19370	426	49950	-
1946	44050	31010	9860	301	75230	43490	11140	1570	7470	15400	106500	8280	354301
1947	49990	800	8040	684	31720	1200	1640	12290	2850	770	3080	28050	141114
1948	5230	7850	5760	1930	3260	371	147	990	720	359	2160	830	27969
1949	4500	15430	14570	39940	2330	545	7020	3850	8970	-51900	473	45060	194608
1950	10230	26430	1700	4230	5000	36480	3680	599	3270	879	660	165	92729
1951	430	213	6120	779	279	391	128	352	7100	944	448	611	17795
1952	133	4260	842	32620	5020	2380	2890	1010	2450	908	5200	19040	76753
1953	3040	5810	533	4910	62560	863	1310	8750	15360	1140	14530	18530	157336
1954	10170	318	114	6460	352	263	14130	24700	2570	3540	3220	1300	67137
1955	6660	26020	145	156	1210	1110	1750	5460	5780	802	290	196	49318
1956	5290	4890	560	3760	1270	2190	110	971	1310	126	166	1110	21249
1957	123	426	34850	14120	13490	4160	450	333	5150	64180	25360	2530	165172
1958	30060	14120	917	1680	1910	1200	692	2120	14360	1900	1430	171	70560
1959	409	33020	1820	67090	5080	4630	4490	17750	5720	4440	17280	16830	178559
1960	13360	17520	1310	6160	5510	64200	54020	17370	8180	32480	31130	32600	283840
1961	30190	74290	2290	2410	2640	59480	33000	3900	51200	840	27050	7460	294750
1962	904	4400	377	1440	698	15800	14410	2200	5920	6220	9050	20590	82009
1963	24600	9850	514	519	2780	6230	3910	2060	2690	1610	1860	5940	62563
1964	3780	18440	26310	2400	1670	4640	4470	4540	6510	5330	2190	4930	85210
1965	7150	10800	373	1020	5170	1430	3790	3190	5470	7740	25440	19130	90703
1966	10450	29040	6150	30960	33030	2640	4490	13820	13610	3700	333	1250	149473
1967	3780	925	477	6100	4960	4320	5820	3320	15470	7430	589	3510	56701
1968	28490	1780	2540	1660	98290	64510	36210	4740	14000	5900	4450	12170	274740
1969	5280	38340	34180	4550	13340	2160	5920	5570	4100	3870	5710	5160	128180
1970	4220	2390	23340	3810	19320	6350	6330	4650	14520	61430	20920	671	167951
1971	737	1680	594	4610	8560	3260	5520	19540	21340	22810	1000	16000	105651
1972	24740	34630	17420	1990	43180	36670	9560	4330	5760	11220	25690	4440	219630
1973	17330	24500	8210	43550	28490	62820	24520	14130	36310	42800	29480	8500	340640
1974	32290	28510	6700	4090	15990	2130	6970	8030	49170	10200	55490	32140	251710
1975	4520	11000	3490	8570	12270	60000	19260	18570	8600	6680	8350	6540	167850
MAX	49990	74290	34850	67090	98290	64510	54020	24700	51200	64180	106500	49950	354301
MIN	123	213	560	156	279	263	110	990	720	126	290	830	17795
MEAN	12738	15956	7320	10083	17487	16530	9593	6994	12794	12804	13842	12031	148172
NO.	30	30	30	30	30	30	30	30	31	31	31	31	30
DISTR OF MEAN	8.6%	10.8%	4.9%	6.8%	11.8%	11.2%	6.5%	4.7%	8.6%	8.6%	9.3%	8.1%	100%

SAN JACINTO RIVER BASIN

08073600 Buffalo Bayou at West Belt Drive at Houston, Texas

LOCATION: Lat 29°45'43", long 95°33'27", Harris County, at the bridge on West Belt Drive in west Houston, 100 ft (30 m) downstream from Rummel Creek, 3.5 mi (5.6 km) downstream from the gage, Buffalo Bayou near Addicks, and 3.7 mi (6.0 km) upstream from the gage, Buffalo Bayou at Piney Point.

DRAINAGE AREA: 307 mi² (796 km²).

PERIOD OF RECORD: September 1971 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 0.67 ft (0.204 m) below mean sea level, datum of 1929.

AVERAGE DISCHARGE: 5 years, 270,348 ac-ft/yr (333.3 hm³/yr).

EXTREMES: Period of record (1971-75): Maximum discharge, 3,770 ft³/s (107 m³/s) Mar. 20, 1972 (gage height, 61.48 ft or 18.739 m); minimum, 25 ft³/s (0.71 m³/s) Nov. 21, 1971.

REMARKS: Records good. The floodflow is regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000) located 10.1 and 10.3 mi (16.3 and 16.8 km) upstream respectively. The low flow is sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	23510	23580	2280	19170	-
1972	26610	34390	19490	3100	45880	39990	10820	5350	6610	10900	25420	6230	234790
1973	18570	27360	9570	47620	31720	67180	27650	15850	40630	46560	31270	10460	374440
1974	37780	32580	9530	5550	18510	4110	9470	12750	50220	13600	60230	36270	290600
1975	6810	13680	5190	11490	15890	63500	22970	22450	11790	8890	11020	8830	202510
MAX	37780	34390	19490	47620	45880	67180	27650	22450	50220	46560	60230	36270	374440
MIN	6810	13680	5190	3100	15890	4110	9470	5350	6610	8890	2280	6230	202510
MEAN	22443	27003	10945	16940	28000	43695	17728	14100	26552	20706	26044	16192	270348
NO.	4	4	4	4	4	4	4	4	5	5	5	5	4
DISTR OF MEAN	8.3%	10.0%	4.0%	6.3%	10.4%	16.2%	6.6%	5.2%	9.8%	7.7%	9.6%	6.0%	100%

SAN JACINTO RIVER BASIN
08073700 Buffalo Bayou at Piney Point, Texas

LOCATION: Lat 29°44'48", long 95°31'24", Harris County, at the bridge on Piney Point Road, village of Piney Point, 3.7 mi (6.0 km) downstream from Rummel Creek, 7.2 mi (11.6 km), downstream from the gage, Buffalo Bayou near Addicks, and 12.5 mi (20.1 km) upstream from the gage, Buffalo Bayou at Houston.

DRAINAGE AREA: 317 mi² (821 km²).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1.35 ft (0.412 m) below mean sea level, datum of 1929, adjustment of 1973.

AVERAGE DISCHARGE: 13 years, 194,858 ac-ft/yr (240.0 hm³/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 4,470 ft³/s (127 m³/s) June 13, 1973 (gage height, 54.98 ft or 16.758 m); minimum, 6.0 ft³/s (0.17 m³/s) Dec. 6, 7, 1964.

REMARKS: Records fair. The floodflow is regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000) located 14.0 mi (22.5 km) and 13.8 mi (22.2 km) upstream, respectively. The low flow is partly sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	1870	2200	7040	-
1964	4370	19530	27060	3180	2330	4830	4790	4750	6710	5630	3020	5830	92030
1965	7320	11160	1160	1350	5860	1840	3600	3970	5380	8190	27400	22100	99330
1966	12680	33240	7810	36980	38740	3650	5280	15610	14470	5500	664	2130	176754
1967	5270	1660	646	7530	5770	5700	6780	3800	16440	8980	1280	5230	69286
1968	29220	3000	4000	2730	97390	71470	43520	5550	17820	7620	5640	14140	302100
1969	6480	37700	36900	5960	14720	3530	7570	6120	6260	5090	7090	6880	144300
1970	5930	3550	24990	4890	26580	9130	10010	7390	19520	67720	23210	1940	204860
1971	1740	3580	1510	5530	9090	4560	6060	20810	26330	25040	2780	21090	128120
1972	28850	36000	20790	3700	45770	39160	11200	5950	7810	12010	24680	6910	242830
1973	20320	26930	10380	47080	31740	70430	31350	16570	40550	47090	32850	10640	385930
1974	38640	33060	10340	5730	19710	4340	9890	12360	50480	14420	61610	38710	299290
1975	7670	14760	5830	12740	18140	67000	27310	24230	13860	10520	12410	9880	224350
MAX	38640	37700	36900	47080	97390	71470	43520	24230	50480	67720	61610	38710	385930
MIN	1740	1660	846	1350	2330	1840	3600	3000	5380	1870	664	1940	69286
MEAN	14041	18681	12635	11450	26320	23803	13947	10593	18803	16898	15756	11732	194659
NO.	12	12	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	7.2%	9.6%	6.5%	5.9%	13.5%	12.2%	7.2%	5.4%	9.7%	8.7%	8.1%	6.0%	100%

SAN JACINTO RIVER BASIN

08074000 Buffalo Bayou at Houston, Texas

LOCATION: Lat 29°45'36", long 95°24'30", Harris County, at the bridge on Shepherd Drive in Houston, and 0.8 mi (1.3 km) upstream from Waugh Drive.

DRAINAGE AREA: 358 mi² (927 km²).

PERIOD OF RECORD: June 1936 to September 1957, January 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1.36 ft (0.414 m) below mean sea level, datum of 1929, adjustment of 1973; records unadjusted for land-surface subsidence. Prior to June 19, 1936, nonrecording gage, and June 19, 1936 to Jan. 16, 1962, water-stage recorder at site 0.8 mi (1.3 km) downstream at 4.08 ft (1.244 m) lower datum. Jan. 17, 1962 to Sept. 30, 1973, auxiliary water-stage recorder 0.8 mi (1.3 km) downstream.

AVERAGE DISCHARGE: 36 years (1936-57, 1962-75), 196,206 ac-ft/yr (241.9 hm³/yr).

EXTREMES: Period of record (1936-57, 1962-75): Maximum discharge, 10,900 ft³/s (309 m³/s) Aug. 30, 1946 (gage height, 28.82 ft or 8.784 m), at site 0.8 mi (1.3 km) downstream at present datum; minimum, 1.3 ft³/s (0.037 m³/s) May 24, 1939 and Nov. 5, 1950.

Maximum gage height since at least 1835, 49.0 ft (14.94 m) Dec. 9, 1935 (discharge, 40,000 ft³/s or 1,130 m³/s).

REMARKS: Records fair. The floodflow is regulated by Barker and Addicks Reservoirs (stations 08072500 and 08073000) located 26.3 and 26.5 mi (42.3 and 42.6 km) upstream, respectively. The gage height is affected by tides and backwater from Whitboak Bayou and other streams. The low flow is mostly sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	50140	6690	910	2360	1540	533	5200	-
1937	10440	2090	10030	7770	349	884	820	500	743	7750	2600	18780	62756
1938	12410	17110	1630	6090	105600	7720	3450	1940	2900	444	395	1000	160089
1939	18310	4780	639	259	352	9930	28630	660	944	933	564	1950	67951
1940	675	9360	427	1440	622	6150	6490	278	1030	3380	60560	87310	177722
1941	28480	14820	50680	47320	41350	97200	19320	4660	74680	53930	42290	4070	478800
1942	3380	3770	5030	25080	2420	4620	81380	8630	22460	1390	8260	10850	177270
1943	20310	2690	11460	1530	1600	2400	20740	21610	2640	932	48920	23990	158822
1944	81890	36970	84700	2490	54810	32960	836	1060	9380	2710	15080	47570	350456
1945	71310	26310	1580	58990	3040	3390	792	71590	76330	23080	1050	58110	395572
1946	58340	39350	13450	1510	93590	61520	13540	2010	11130	18040	137900	12640	463020
1947	62230	1790	9910	1600	40400	2920	2100	13030	4970	1360	4670	31650	176630
1948	6580	9390	6910	2320	3530	842	803	659	1030	755	3070	509	36398
1949	5320	20570	17780	45580	3970	1030	15740	6310	9310	72030	1180	54010	252830
1950	18750	34120	3220	7510	8230	46350	4960	790	3370	1220	514	718	129752
1951	1470	778	11000	1850	805	863	565	570	7390	1230	890	1060	28471
1952	435	7900	1320	39660	7800	3120	4910	1400	2650	1160	7300	24500	102175
1953	5360	10190	1120	5180	91480	2840	2090	15370	18530	2260	18640	21410	194490
1954	14280	900	578	11540	1080	697	6190	36300	3300	3770	3760	1670	84065
1955	9380	36690	818	893	1810	2130	3050	7060	6090	1980	416	1150	71467
1956	7300	5950	651	4290	2870	4040	603	1230	1760	622	875	2730	32921
1957	693	1320	38460	15630	17700	5060	1350	928	5890	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	3190	6250	1610	4570	4690	23210	18290	3690	8530	9860	11930	26770	122590
1963	32330	13520	2080	1660	4880	12580	5630	3770	5150	2330	3740	10000	97670
1964	5530	22170	30610	4180	3140	5470	5460	6690	9100	6830	5260	9480	113920
1965	8090	13700	1630	2000	7200	2510	4380	5860	7860	9810	33370	27480	123890
1966	14900	42040	10010	47300	52030	6800	6450	16450	15730	7120	1440	3090	223360
1967	6430	2600	2280	8730	6930	6870	9020	5570	18970	10410	2150	7150	87110
1968	33020	3800	5690	4110	112700	86730	49740	5720	24210	8720	6820	15840	357100
1969	8240	47420	47080	8200	17680	4740	8550	7310	9660	6490	8230	9850	183450
1970	7880	4520	30130	6660	39500	10940	11800	8750	23010	101900	29930	2810	277630
1971	2350	5840	2270	6990	13810	5960	8410	23960	39110	26300	3910	25060	163970
1972	33680	40040	32090	5630	54800	47510	14450	10220	10530	14060	33260	8590	304860
1973	23420	31790	13910	55830	34320	91060	36570	19780	50630	60750	39730	11150	468940
1974	49580	33000	13730	6440	28780	5730	12540	17760	66540	17160	67940	40850	360050
1975	10710	17350	6800	15010	26900	77650	31710	30570	18100	-	-	-	-
MAX	81890	47420	84700	58990	112700	97200	81380	71590	76330	101900	137900	87310	478800
MIN	435	778	427	259	349	697	565	278	743	444	395	509	28471
MEAN	19335	16311	13449	13110	25451	19849	12446	10100	16000	14185	17858	17912	196206
NO.	35	35	35	35	35	36	36	36	36	34	34	34	33
DISTR OF MEAN	9.9%	8.3%	6.9%	6.8%	13.0%	10.1%	6.3%	5.1%	8.2%	7.2%	9.1%	9.1%	100%

SAN JACINTO RIVER BASIN

08074150 Cole Creek at Deihl Road at Houston, Texas

LOCATION: Lat 29°51'04", long 95°29'16", Harris County, at the bridge at Deihl Road in northwest Houston, and 1.8 mi (2.9 km) upstream from the mouth.

DRAINAGE AREA: 8.05 mi² (20.85 km²).

PERIOD OF RECORD: May 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 12 years, 5,321 ac-ft/yr (6.6 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 2,020 ft³/s (57.2 m³/s) Mar. 20, 1972 (elevation, 78.60 ft or 23.957 m); no flow at times.

REMARKS: Records fair. No diversion above station. The low flow is partly sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	207	64.0	65.0	59.0	59.0	12.0	56.0	213	-
1965	136	464	22.0	15.0	77.0	35.0	8.10	71.0	64.0	48.0	467	699	2106
1966	519	1200	283	2020	695	164	62.0	187	33.0	71.0	19.0	65.0	5318
1967	110	42.0	40.0	148	229	88.0	74.0	81.0	120	116	25.0	139	1212
1968	206	32.0	98.0	126	2280	1290	65.0	19.0	275	122	278	347	5138
1969	136	1970	631	240	207	32.0	75.0	68.0	122	59.0	86.0	141	3767
1970	205	123	771	183	1930	224	495	98.0	430	2340	166	85.0	7050
1971	80.0	128	77.0	91.0	378	1.00	30.0	415	802	105	8.00	1160	3275
1972	464	281	1870	22.0	829	42.0	60.0	300	191	256	1430	248	5993
1973	733	772	276	2140	38.0	4970	561	226	1010	1330	219	141	11916
1974	2520	107	637	162	414	63.0	54.0	251	701	457	2020	1070	8456
1975	268	522	340	313	1800	828	445	773	104	633	418	492	6936
MAX	2520	1970	1870	2140	2280	4470	561	773	1010	2340	2020	1160	11916
MIN	80.0	32.0	22.0	15.0	38.0	1.00	8.10	19.0	33.0	12.0	8.00	65.0	1212
MEAN	489	513	459	496	757	608	166	212	326	462	433	400	5321
NO.	11	11	11	11	12	12	12	12	12	12	12	12	11
DISTR OF MEAN	9.2%	9.6%	8.6%	9.3%	14.2%	11.4%	3.1%	4.0%	6.1%	8.7%	8.1%	7.5%	100%

SAN JACINTO RIVER BASIN

08074250 Brickhouse Gully at Costa Rica Street at Houston, Texas

LOCATION: Lat 29°49'40", long 95°28'09", Harris County, at the bridge at Costa Rica Street in northwest Houston, and 1.0 mi (1.6 km) upstream from Whiteoak Bayou.

DRAINAGE AREA: 11.6 mi² (30.0 km²).

PERIOD OF RECORD: September 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 12 years, 9,403 ac-ft/yr (11.6 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 5,800 ft³/s (164 m³/s) Mar. 20, 1972 (elevation, 69.20 ft or 21.092 m); no flow at times.

REMARKS: Records good. No diversion above station. The low flow is partially sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	354	135	402	461	-
1965	298	449	199	147	553	326	348	233	262	148	523	732	4218
1966	620	1330	442	2190	1100	640	195	266	242	320	143	228	7716
1967	307	184	203	302	266	249	271	283	438	402	187	466	3558
1968	533	242	557	422	4120	1200	377	241	736	265	413	228	9334
1969	197	2130	1030	707	528	195	278	302	631	294	236	480	7008
1970	326	249	798	164	2300	376	623	105	840	3310	100	78.0	9469
1971	46.0	168	49.0	94.0	922	236	229	797	2070	422	46.0	1870	6949
1972	1250	629	4360	267	1420	392	279	691	658	404	1920	482	12752
1973	1260	1360	798	3060	211	5060	1540	958	2840	2270	401	314	20072
1974	2860	302	772	266	1290	242	217	775	1790	953	2470	1100	13037
1975	455	760	467	759	2550	1860	1000	1050	335	623	439	584	10882
MAX	2860	2130	4360	3060	4120	5060	1540	1050	2840	3310	2470	1870	20072
MIN	46.0	168	49.0	94.0	211	195	195	105	242	135	46.0	78.0	3558
MEAN	741	709	880	762	1387	980	505	518	933	796	607	585	9403
NO.	11	11	11	11	11	11	11	11	12	12	12	12	11
DISTR													
OF MEAN	7.9%	7.5%	9.4%	8.1%	14.8%	10.4%	5.4%	5.5%	9.9%	8.5%	6.5%	6.2%	100%

SAN JACINTO RIVER BASIN
08074500 Whiteoak Bayou at Houston, Texas

LOCATION: Lat 29°46'30", long 95°23'49". Harris County, at the bridge on Heights Boulevard in Houston, 580 ft (171 m) downstream from the Texas and New Orleans Railroad Co. bridge, 2.4 mi (3.9 km) upstream from Little Whiteoak Bayou, and 4.0 mi (6.4 km) upstream from the mouth.

DRAINAGE AREA: 84.7 mi² (219.4 km²). During extreme floods when the capacity of the drainage ditches is exceeded, the drainage area is defined by natural ridges and is 92.0 mi² (238.3 km²).

PERIOD OF RECORD: June 1936 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 7.35 ft (2.240 m) below mean sea level, datum of 1929, adjustment of 1973; unadjusted for land surface subsidence. Prior to June 17, 1936, nonrecording gage, and June 17, 1936 to Apr. 28, 1965, water-stage recorder at site 480 ft (146 m) upstream at same datum.

AVERAGE DISCHARGE: 40 years, 54,237 ac-ft/yr (66.9 hm³/yr).

EXTREMES: Period of record (1936-76): Maximum discharge, 17,300 ft³/s (490 m³/s) Mar. 20, 1972 (gage height, 43.50 ft or 13.259 m); maximum gage height, 43.60 ft (13.289 m) Nov. 13, 1981; no flow for many days during 1965 (result of construction dams).

Maximum stage since at least 1919, 51.5 ft (15.70 m) Dec. 9, 1935, prior to channel rectification, present site and datum (discharge, 14,750 ft³/s or 418 m³/s).

REMARKS: Records fair. No diversion above station. The low flow is partly sustained by industrial wastes.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	2480	1690	171	623	409	78.0	2980	-
1937	3460	554	6680	1350	46.0	353	1260	440	146	2420	248	5360	22317
1938	3300	6880	359	231	26900	541	1120	395	295	58.0	83.0	2.84	40446
1939	5020	2050	336	81.0	97.0	1110	8680	51.0	965	149	56.0	754	19349
1940	105	2390	67.0	495	223	3210	493	37.0	142	1510	17630	13610	39912
1941	6440	2710	14850	14970	7140	24260	2530	435	34380	12550	12550	2670	135485
1942	2980	1910	2690	6280	265	591	26980	1700	4170	368	2900	5220	56054
1943	8000	911	5500	521	1970	2400	16490	3900	492	188	25910	8500	74382
1944	26850	6590	21930	413	18160	1820	135	511	3740	278	6220	11020	97667
1945	18340	5220	435	16100	768	4160	139	19100	2160	2080	119	16790	85411
1946	15670	10250	3650	466	31140	16590	5720	287	2370	338	46080	3920	138481
1947	17010	473	3990	342	9280	478	186	265	171	811	1060	5830	39896
1948	2420	3020	1220	2270	743	193	148	83.0	64.0	43.0	683	136	11023
1949	1110	7430	3250	11890	2020	278	3050	1910	768	29410	303	17380	78799
1950	12170	13620	1040	1430	1370	10860	5100	282	202	130	169	301	46674
1951	562	284	2970	198	476	275	392	63.0	2080	118	197	207	7822
1952	130	3720	265	4960	1400	420	1250	243	393	166	2250	5230	20427
1953	1240	3090	281	489	21260	555	569	4800	1430	549	2730	3150	40143
1954	3990	300	273	1120	248	175	8640	6160	551	1180	324	149	23110
1955	1520	8630	180	252	231	315	1210	815	1430	1380	134	483	16580
1956	2300	1510	139	502	1270	769	686	207	99.0	179	302	697	8660
1957	179	543	8880	8910	2430	1190	315	170	3130	16630	8550	1020	51547
1958	10770	4630	561	1780	467	1560	380	856	3110	1130	719	265	26228
1959	1070	12990	422	12030	5340	2130	8220	15290	5380	5500	5670	9360	83402
1960	4840	9240	990	1340	521	13960	4280	5850	1540	11250	11280	13080	78171
1961	9770	26010	1230	2020	617	11260	17330	904	16440	800	15570	4810	106761
1962	1300	2060	723	2220	2480	6580	1230	516	1410	1650	6830	4510	31509
1963	7090	4470	908	584	2080	3460	1020	687	1800	919	1230	2930	27178
1964	2320	3700	5690	2080	3070	1470	692	1630	1900	659	1660	3240	28111
1965	1630	4790	541	462	2980	1410	557	966	1220	1010	3590	3830	22986
1966	4480	8740	2780	16600	8360	3240	1080	1940	1120	2120	300	1240	52000
1967	1810	724	523	1850	1260	645	2010	1610	4820	2320	387	2320	20279
1968	4330	817	2300	2120	20760	10630	1900	1260	5560	1940	5780	2640	60037
1969	1940	15670	5810	3370	3380	1130	2400	2590	4190	1720	2050	3440	47690
1970	1580	1530	6820	1550	16890	2320	4720	1540	6070	19420	2710	1000	66150
1971	640	2020	762	1150	4890	656	1380	5800	10800	2580	987	11820	43465
1972	5460	3400	15530	1690	9930	1660	2260	3190	2600	2390	9450	3710	61270
1973	8450	11020	5920	21590	1880	33090	9110	7830	14710	19010	3330	3860	139800
1974	24550	1350	6370	2890	9090	1500	2660	6220	12860	4670	19980	10360	102500
1975	5220	6680	4420	5500	13080	11680	9390	7850	3730	6830	4730	5480	84590
MAX	26850	26010	21930	21590	31140	33090	26980	19100	34380	29410	46080	17380	139800
MIN	105	284	67.0	81.0	46.0	175	135	37.0	64.0	43.0	56.0	136	7822
MEAN	5899	5178	3612	3951	6013	4585	3935	2704	3977	3922	5621	4840	54237
NO.	39	39	39	39	39	40	40	40	40	40	40	40	39
DISTR OF MEAN	10.9%	9.5%	6.7%	7.3%	11.1%	8.5%	7.3%	5.0%	7.3%	7.2%	10.4%	8.9%	100%

SAN JACINTO RIVER BASIN

08074800 Keegans Bayou at Roark Road near Houston, Texas

LOCATION: Lat 29°30'23", long 95°33'43", Harris County, at the bridge on Roark Road, and about 2 mi (3 km) southwest of the city limits of Houston.

DRAINAGE AREA: 11.6 mi² (30.0 km²).

PERIOD OF RECORD: September 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 12 years, 7,410 ac-ft/yr (0.1 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 1,570 ft³/s (44.6 m³/s) June 13, 1973 (elevation, 73.37 ft or 22.363 m); no flow for many days.

REMARKS: Records fail.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	29.0	11.0	29.0	460	-
1965	63.0	36.3	1.80	3.20	65.0	5.40	9.1	30.0	1.40	9.7	200	755	1507
1966	675	1490	260	2790	2570	19.0	14.0	360	307	337	44.0	53.0	8919
1967	229	110	35.0	70.0	100	62.0	27.0	24.0	59.0	61.0	40.0	134	951
1968	689	76.0	212	89.0	922	3190	572	36.0	768	68.0	123	229	6974
1969	255	1020	631	310	1410	86.0	13.0	17.0	111	27.0	11.0	133	4024
1970	125	105	785	113	2340	424	330	189	664	4290	240	80.0	9805
1971	75.0	92.0	98.0	132	229	61.0	99.0	559	1720	426	89.0	1060	4640
1972	638	779	408	153	2610	216	106	242	240	195	1440	203	7230
1973	1540	1540	688	3100	576	4600	1160	246	2600	3080	326	348	19804
1974	3250	267	620	344	691	175	501	963	1170	394	1510	857	10942
1975	553	615	265	540	1130	2600	402	603	189	525	398	599	8419
MAX	3250	1540	820	3100	2610	4600	1160	963	2600	4290	1510	1060	19804
MIN	63.0	76.0	1.80	3.20	65.0	5.40	9.1	17.0	1.40	9.7	11.0	53.0	951
MEAN	736	587	382	695	1149	1040	294	290	672	785	371	409	7410
NO.	11	11	11	11	11	11	11	11	12	12	12	12	11
DISTR OF MEAN	9.9%	7.9%	5.2%	9.4%	15.5%	14.0%	4.0%	3.9%	9.1%	10.6%	5.0%	5.5%	100%

SAN JACINTO RIVER BASIN
08075000 Brays Bayou at Houston, Texas

LOCATION: Lat 29°41'49", long 95°24'43", Harris County, at the Main Street Bridge in the southwest section of Houston, 1.6 mi (2.6 km) upstream from Harris Gully, and 11.6 mi (18.7 km) upstream from Buffalo Bayou.

DRAINAGE AREA: 88.4 mi² (229.0 km²).

PERIOD OF RECORD: June 1936 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 7.16 ft (2.182 m) below mean sea level, datum of 1929, adjustment of 1973; unadjusted for land surface subsidence. Prior to June 20, 1936, nonrecording gage, and June 20, 1936 to Nov. 25, 1959, water-stage recorder at site 0.8 mi (1.3 km) downstream at same datum.

AVERAGE DISCHARGE: 40 years, 76,177 ac-ft/yr (93.9 hm³/yr).

EXTREMES: Period of record (1936-75): Maximum discharge, 24,800 ft³/s (702 m³/s) June 13, 1973 (gage height, 49.90 ft or 15.210 m); maximum gage height, 51.70 ft (15.768 m) Aug. 28, 1945; minimum discharge 0.1 ft³/s (0.003 m³/s) Oct. 11, 12, 1937, Mar. 14, and Apr. 1, 1958.

Maximum stage since at least 1911, 58.0 ft (17.07 m) in June 1919 before channel-rectification, former site, from information by an engineer for Houston; maximum discharge, that of June 13, 1973.

REMARKS: Records good. No diversion above station. The low flow is mostly the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1936	-	-	-	-	-	4810	5890	1100	1500	331	80.0	3300	-
1937	8250	974	4440	221	59.0	225	106	64.0	153	2550	295	15120	32457
1938	7500	6550	248	2460	21500	908	1190	822	2260	36.0	40.0	476	43990
1939	4030	609	181	83.0	773	1500	23600	77.0	67.0	108	101	938	32067
1940	117	4100	84.0	218	820	3170	1150	45.0	135	701	25980	9240	45760
1941	4220	2860	15380	13420	10110	15720	3230	1850	48640	21490	13230	3120	153270
1942	1940	4060	2230	3440	337	2570	31940	3820	7820	331	1740	6410	66638
1943	9170	615	5750	636	275	351	27610	4080	376	147	42760	10740	102510
1944	34110	5610	18900	293	23100	859	159	401	1140	382	4680	6890	96524
1945	7380	4520	294	13050	6030	1390	296	30100	3030	7240	201	15860	89391
1946	18790	9520	4030	909	19140	26060	6120	422	16190	1700	40540	6080	149501
1947	16820	540	1850	475	17530	1570	468	7120	497	529	3120	8660	59179
1948	6020	8780	2740	432	1880	617	741	504	290	312	1590	371	24277
1949	3800	12010	3280	12760	604	2420	4600	6130	639	42950	503	18320	108016
1950	13520	14410	623	7660	5550	15620	2580	828	553	420	338	368	62470
1951	847	687	4340	540	696	874	512	547	2060	394	749	430	12676
1952	349	3950	515	5830	1870	549	1040	635	724	463	2170	6530	24625
1953	2250	4570	530	700	18390	1150	948	14530	4390	871	8660	6710	63699
1954	4040	544	561	5590	1370	543	1380	795	508	837	810	916	17894
1955	3280	12200	455	762	1310	1320	1620	2750	2580	867	587	960	28691
1956	2870	2000	768	1020	3760	1640	632	911	944	794	1140	1780	18279
1957	653	1030	12720	8680	4110	1620	843	1200	2160	13640	14300	1030	61986
1958	9500	5580	1190	2700	1130	1170	1620	1690	5190	7220	1370	989	39349
1959	1350	30420	1640	17800	2640	2180	7800	6200	2860	11570	10700	12970	108130
1960	8140	9880	1620	1440	1220	29640	2620	8350	2080	14800	5450	12370	97610
1961	10960	21480	2390	2590	1310	15510	19670	2310	18900	1400	14330	2900	113750
1962	2260	1460	1620	3630	5010	9570	3300	2260	3710	4910	9370	11460	58560
1963	10500	6050	2050	1340	1880	13110	4040	1540	3190	958	4410	7460	56528
1964	4020	9870	6830	2740	2550	1840	1490	2300	3030	1580	3310	7830	47390
1965	2160	4990	1480	1470	3910	2770	1870	2630	2470	3020	4820	9930	41520
1966	7020	14570	6870	23890	23480	2130	2640	4310	2990	4330	1590	2280	96100
1967	4140	3130	2260	4160	3420	2410	4130	3530	4700	3610	1810	3640	40940
1968	9790	2360	5040	3990	16820	33800	11260	2960	15340	5470	4570	4490	115890
1969	5690	15440	9740	7320	15710	4350	2760	2920	8080	3070	2790	7590	85460
1970	4280	4060	12640	4250	36060	4660	5500	4210	12500	43600	4590	3030	139380
1971	2520	5010	3550	3660	5110	2750	3490	9930	18070	4950	3240	14120	76400
1972	10740	9860	9090	4380	24980	8850	4860	3960	7220	4540	18020	3730	110230
1973	14090	16930	11660	26960	7990	50150	14440	6130	24740	20510	4740	5700	204040
1974	26740	4060	9740	4730	12060	4160	10780	14830	16440	6650	18460	12450	141100
1975	8140	7460	4550	7890	14990	37510	11280	11820	5330	7620	6010	8860	131460
MAX	34110	30420	18900	26960	36060	50150	31940	30100	48640	43600	42760	18320	204040
MIN	117	540	84.0	83.0	59.0	225	106	45.0	67.0	36.0	40.0	368	12676
MEAN	7487	6994	4458	5234	6192	7801	5755	4265	6537	6173	7080	6401	76177
NO.	39	39	39	39	39	40	40	40	40	40	40	40	39
DISTR OF MEAN	9.8%	9.2%	5.9%	6.9%	10.8%	10.2%	7.6%	5.6%	8.3%	8.1%	9.3%	8.4%	100%

SAN JACINTO RIVER BASIN

08075400 Sims Bayou at Hiram Clarke Street at Houston, Texas

LOCATION: Lat 28°37'07", long 95°26'45", Harris County, at the bridge on Hiram Clarke Street in southwest Houston, 12.7 mi (20.4 km) upstream from the gage, Sims Bayou at Houston, and 19.7 mi (31.7 km) upstream from the mouth.

DRAINAGE AREA: 20.2 mi² (52.3 km²).

PERIOD OF RECORD: September 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 12 years, 19,234 ac-ft/yr (23.7 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 4,220 ft³/s (120 m³/s) June 13, 1973 (elevation, 55.02 ft or 16.770 m); maximum elevation, 55.12 ft (16.801 m) June 9, 1975; minimum discharge, 1.5 ft³/s (0.042 m³/s) July 26, 1965.

REMARKS: Records fair. No diversion above station. The low flow is partly sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	542	335	594	2500	-
1965	367	563	223	295	1370	789	227	329	487	687	1310	2120	8767
1966	2260	4020	962	5210	5530	371	407	736	1120	640	378	433	22067
1967	766	868	323	592	612	368	902	882	987	456	279	540	7575
1968	2380	602	1050	735	3800	4990	1020	475	1510	1260	546	865	19233
1969	1890	4240	2840	1410	2890	590	428	567	932	393	374	1350	17904
1970	870	424	2210	940	8490	908	432	501	1770	6810	458	425	24238
1971	448	525	405	529	666	578	649	1510	4130	639	514	2480	13073
1972	791	1380	1110	668	4600	2020	539	564	796	490	3840	526	17324
1973	3590	2810	2790	5230	1280	10440	3090	1150	6630	3420	561	989	41980
1974	5230	563	1280	647	2990	645	761	1180	2460	591	2190	1860	20397
1975	1350	1150	675	2020	3340	7150	764	861	640	919	513	1100	20482
MAX	5230	4240	2840	5230	8490	10440	3090	1510	6630	6810	3840	2500	41980
MIN	367	424	223	295	612	368	227	329	487	335	279	425	7575
MEAN	1813	1559	1261	1661	3233	2623	838	796	1834	1387	963	1266	19234
NO.	11	11	11	11	11	11	11	11	12	12	12	12	11
DISTR OF MEAN	9.4%	8.1%	6.6%	8.6%	16.8%	13.6%	4.4%	4.1%	9.5%	7.2%	5.0%	6.6%	100%

SAN JACINTO RIVER BASIN
08075500 Sims Bayou at Houston, Texas

LOCATION: Lat 29°40'27", long 95°17'21", Harris County, at the bridge on State Highway 35 in southeast Houston, and 7.0 mi (11.3 km) upstream from the mouth.

DRAINAGE AREA: 64.0 mi² (165.8 km²).

PERIOD OF RECORD: October 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 3.09 ft (0.942 m) below mean sea level, datum of 1929, adjustment of 1973; unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 24 years, 52,197 ac-ft/yr (64.4 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 10,600 ft³/s (300 m³/s) June 9, 1975 (gage height, 33.17 ft or 10.110 m); minimum, 0.9 ft³/s (0.026 m³/s) Aug. 7, 1955.

REMARKS: Records fair. The low flow is largely sustained by sewage effluent from the Houston suburbs and industrial wastes.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	-	349	1440	4350	-
1953	1550	4220	481	580	8290	824	527	8010	3780	494	4950	6160	39866
1954	1530	518	376	782	1110	597	1040	822	388	642	345	309	8459
1955	2320	10110	280	534	656	322	703	792	779	319	204	310	17329
1956	919	1320	329	593	1020	585	278	393	446	300	635	937	7755
1957	355	738	17470	8940	1930	3440	499	686	1580	13170	12430	817	62055
1958	6670	5410	693	1300	420	415	1400	585	9050	1170	546	467	28326
1959	699	26130	961	14810	4270	1540	13430	12020	3060	5690	7780	7780	98180
1960	5110	6880	671	706	607	22970	1500	5290	1320	7610	2680	12360	67704
1961	10880	10660	1020	1170	657	10460	14020	783	13430	507	8970	2450	75007
1962	1210	507	722	1830	1770	5170	908	862	978	1430	3600	6800	25787
1963	6010	3800	1250	678	658	4100	1470	692	870	528	2850	6360	29266
1964	2100	8390	3410	962	787	550	557	768	1450	728	2340	9250	31292
1965	1200	2580	618	613	4120	1570	892	787	1060	1320	3010	6030	23800
1966	5450	12930	3270	15680	23560	1480	1410	2380	4700	1810	748	1040	74458
1967	2440	2890	1280	2650	1690	737	2510	1550	2580	1150	722	1800	21999
1968	9190	1520	3060	3690	16870	19380	3260	1670	4450	4860	1490	2110	71550
1969	7030	15220	9650	5160	10650	2060	1280	1470	1760	1550	1310	4940	62080
1970	2740	1720	7720	2920	26290	2540	2080	1520	5670	18640	1680	1250	74770
1971	1190	1550	1310	1580	1660	1260	1470	3330	8430	2070	1680	9680	35210
1972	4300	5350	2760	2570	13890	5270	2090	1860	3800	1770	15660	2460	61780
1973	10230	9580	8680	18010	5220	35470	15590	5070	17290	12160	2230	3460	142990
1974	19090	2680	5920	2330	7960	1860	2820	3500	9160	2590	9360	6560	73830
1975	7170	3580	2300	6300	9680	26500	2600	3940	1550	3420	1650	3600	72290
MAX	19090	26130	17470	18010	26290	35470	15590	12020	17290	18640	15660	12360	142990
MIN	355	507	280	534	607	322	278	393	388	300	204	309	7755
MEAN	4756	6012	3227	4104	6259	6483	3145	2556	4243	3512	3680	4220	52197
NO.	23	423	23	23	23	23	23	23	23	24	24	24	23
DISTR OF MEAN	9.1%	11.5%	6.2%	7.9%	12.0%	12.4%	6.0%	4.9%	8.1%	6.7%	7.1%	8.1%	100%

SAN JACINTO RIVER BASIN
08075650 Berry Bayou at Forest Oaks Street at Houston, Texas

LOCATION: Lat 29°40'35", long 95°14'37", Harris County, at the Forest Oaks Street Bridge in southeast Houston, 0.8 mi (1.3 km) upstream from the auxiliary gage at the mouth of Berry Creek, and 1.7 mi (2.7 km) upstream from Sims Bayou.

DRAINAGE AREA: 11.1 mi² (28.7 km²).

PERIOD OF RECORD: October 1967 to September 1974.

GAGE: Water-stage recorder. Datum of gage is 2.72 ft (0.829 m) below mean sea level, datum of 1929, adjustment of 1973; prior record unadjusted for land-surface subsidence. Auxiliary water-stage recorder 0.8 mi (1.3 km) downstream at same datum. June 25, 1964 to Jan. 11, 1965, auxiliary nonrecording gage 0.8 mi (1.3 km) downstream at same datum.

AVERAGE DISCHARGE: 11 years, 11,301 ac-ft/yr (13.8 hm³/yr).

EXTREMES: Period of record (1967-74): Maximum discharge, 6,080 ft³/s (144 m³/s) June 9, 1975; maximum gage height, 21.69 ft (6.611 m) June 9, 1975.

REMARKS: The station was discontinued as a continuous discharge station as of September 30, 1974.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	301	424	354	288	580	309	838	1790	-
1965	452	650	276	306	586	703	329	377	515	580	1070	1970	7814
1966	1500	3820	770	332	4400	1510	652	1060	953	-	-	-	-
1967	-	1110	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX	1500	3820	770	332	4400	1510	652	1060	953	580	1070	1970	7814
MIN	452	650	276	306	301	424	329	288	515	309	838	1790	7814
MEAN	976	1860	523	319	1762	879	445	575	603	445	954	1880	11301
NO.	2	3	2	2	3	3	3	3	3	2	2	2	1
DISTR													
OF MEAN	8.6%	16.5%	4.6%	2.8%	15.6%	7.8%	3.9%	5.1%	6.0%	3.9%	8.4%	16.6%	100%

SAN JACINTO RIVER BASIN

08075730 Vince Bayou at Pasadena, Texas

LOCATION: Lat 28°41'40", long 96°12'58", Harris County, on the concrete lined channel at the end of West Ellaine Avenue in Pasadena, and 2.4 mi (3.9 km) upstream from the mouth.

DRAINAGE AREA: 8.21 mi² (21.26 km²).

PERIOD OF RECORD: October 1971 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2.54 ft (0.774 m) below mean sea level, datum of 1929, adjustment of 1973.

AVERAGE DISCHARGE: 5 years, 13,759 ac-ft/yr (17.0 hm³/yr).

EXTREMES: Period of record (1971-75): Maximum discharge, 3,360 ft³/s (95.2 m³/s) June 11, 1973 (gage height, 16.20 ft or 4.938 m); no flow Aug. 5, 8, 18, 1972.

REMARKS: Records fair. The low flow is sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	-	225	258	1740	-
1972	565	329	352	715	1900	506	259	147	678	420	2300	467	8638
1973	850	725	1110	2410	973	5000	2270	816	2050	3530	242	404	20380
1974	1990	495	952	416	2590	529	861	981	1110	406	2200	1000	13530
1975	1100	307	261	914	1790	3660	1940	1570	177	565	298	611	13193
MAX	1990	725	1110	2410	2590	5000	2270	1570	2050	3530	2300	1740	20380
MIN	565	307	261	416	973	506	259	147	177	225	242	404	8638
MEAN	1126	464	669	1114	1813	2424	1333	879	1004	1029	1060	844	13759
NO.	4	4	4	4	4	4	4	4	4	5	5	5	4
DISTR OF MEAN	8.2%	3.4%	4.9%	8.1%	13.2%	17.6%	9.7%	6.4%	7.3%	7.5%	7.7%	6.1%	100%

SAN JACINTO RIVER BASIN

08075770 Hunting Bayou at Interstate Highway 610 at Houston, Texas

LOCATION: Lat 29°47'35", long 96°16'04", Harris County, at the bridge on Interstate Highway 610 in the northeast section of Houston, and 8.9 mi (14.3 km) upstream from the mouth.

DRAINAGE AREA: 18.8 mi² (48.5 km²).

PERIOD OF RECORD: May 1964 to December 1975. Prior to October 1973, published as "at U.S. Highway 80-A, Houston".

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence. Prior to Oct. 1, 1972, water-stage recorder 1,800 ft (549 m) upstream at same datum.

AVERAGE DISCHARGE: 12 years, 14,581 ac-ft/yr (18.0 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 3,380 ft³/s (95.7 m³/s) June 13, 1973 (elevation, 38.11 ft or 11.618 m); minimum, 0.88 ft³/s (0.02 m³/s) Aug. 24, 1971.

REMARKS: Records fair. The low flow is largely maintained by sewage and industrial effluent.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	220	276	120	265	543	276	562	828	-
1965	318	564	195	171	657	257	135	535	548	450	733	1480	6043
1966	1220	2870	848	2570	2440	639	451	648	514	1360	263	328	14151
1967	460	339	229	423	649	152	327	206	655	396	174	507	4517
1968	2090	340	731	631	3230	5480	600	458	1510	429	899	752	17150
1969	1430	2010	1440	1470	1330	317	663	485	502	261	370	1150	11428
1970	627	615	2230	583	3820	489	681	268	1530	6820	1420	504	19587
1971	322	917	495	563	631	456	239	760	2620	899	489	2510	10901
1972	2010	810	3580	1230	4910	867	269	679	1380	543	2840	657	19775
1973	1940	1850	1080	3270	1320	8100	2970	1750	2960	2800	611	834	29485
1974	3770	558	1250	459	2570	348	587	2090	1730	788	2240	1910	18300
1975	1610	992	654	995	2650	2770	2060	1340	489	872	425	882	15739
MAX	3770	2870	3580	3270	4910	8100	2970	2090	2960	6820	2840	2510	29485
MIN	318	339	195	171	220	152	120	206	489	261	174	328	4517
MEAN	1436	1079	1157	1124	2036	1679	759	790	1248	1325	919	1029	14581
NO. OF MEAN	11	11	11	11	12	12	12	12	12	12	12	12	11
DISTR OF MEAN	9.8%	7.4%	7.9%	7.7%	14.0%	11.5%	5.2%	5.4%	8.6%	9.1%	6.3%	7.1%	100%

SAN JACINTO RIVER BASIN

08075900 Greens Bayou at U.S. Highway 75 near Houston, Texas

LOCATION: Lat 29°57'24", long 95°25'04", Harris County, at the bridge on U.S. Highway 75, and 21 mi (34 km) upstream from Halls Bayou.

DRAINAGE AREA: 34.8 mi² (90.1 km²).

PERIOD OF RECORD: August 1965 to December 1976.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 11 years, 19,883 ac-ft/yr (24.5 km³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 2,840 ft³/s (83.3 m³/s) Mar. 20, 1972 (elevation, 89.75 ft or 27.356 m); maximum elevation, 91.09 ft (27.764 m) Feb. 21, 1969; minimum discharge, 0.16 ft³/s (0.004 m³/s) Oct. 21, 22, 1969.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	204	221	221	382	986	-
1966	983	2500	552	5310	4470	274	272	848	338	244	233	326	16350
1967	400	277	272	494	302	233	323	361	2950	335	232	506	6687
1968	937	291	486	325	4330	3500	544	425	975	459	2860	1930	17062
1969	504	6440	2010	959	867	356	228	225	491	363	418	552	13413
1970	349	367	2130	632	8520	1480	366	385	564	5550	923	263	21529
1971	253	300	156	117	386	246	220	1080	1300	229	128	2450	6865
1972	925	542	3710	306	6120	387	328	482	511	700	2680	550	17241
1973	2150	3770	1380	8880	624	14310	2380	1070	3950	9920	1050	952	50436
1974	9160	561	1800	1000	2480	525	504	1210	3440	1010	9340	2870	33920
1975	1010	2210	1230	1650	3930	1550	1430	2000	490	1970	1110	1700	20280
MAX	9160	6440	3710	8880	8520	14310	2380	2000	3950	9920	9340	2870	50436
MIN	253	277	156	117	302	233	220	204	221	221	128	263	6687
MEAN	1667	1728	1373	1968	3203	2286	660	754	1385	1909	1760	1190	19883
NO.	10	10	10	10	10	10	10	11	11	11	11	11	10
DISTR OF MEAN	8.4%	8.7%	6.9%	9.9%	16.1%	11.5%	3.3%	3.8%	7.0%	9.6%	8.8%	6.0%	100%

SAN JACINTO RIVER BASIN
08076000 Greens Bayou near Houston, Texas

LOCATION: Lat 29°55'05", long 95°18'24". Harris County, at the bridge on U.S. Highway 59, 10.5 mi (16.9 km) northeast of Houston, 12.0 mi (19.3 km) upstream from Halls Bayou, and 23.4 mi (37.7 km) upstream from the mouth.

DRAINAGE AREA: 72.7 mi² (188.3 km²).

PERIOD OF RECORD: October 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 0.86 ft (0.261 m) below mean sea level, datum of 1929, adjustment of 1957; unadjusted for land surface subsidence.

AVERAGE DISCHARGE: 24 years, 36,698 ac-ft/yr (46.2 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 7,000 ft³/s (198 m³/s) July 30, 1954 (gage height, 64.75 ft or 19.736 m); maximum gage height, 65.75 ft (20.041 m) Sept. 12, 1961; no flow at times.

REMARKS: Records poor. No diversion above station. The low flow is sustained by the Houston Lighting and Power Co. effluent which is obtained from ground-water sources.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	-	0	565	2670	-
1953	513	1320	78.0	545	16330	113	216	1550	524	72.0	1120	1730	24111
1954	3110	93.0	25.0	225	344	7.30	16800	1720	221	578	25.0	0	23148
1955	576	5960	2.80	62.0	96.0	83.0	987	764	417	1040	0	93.0	10081
1956	917	1070	23.0	7.90	15.0	76.0	88.0	1500	117	6.70	62.0	129	4012
1957	3.60	19.0	3990	2600	1270	96.0	28.0	50.0	2910	10210	5850	270	27497
1958	8390	3530	199	132	446	132	138	362	1010	317	406	37.0	15099
1959	340	5120	268	6920	7880	731	5080	7000	696	4550	1410	5490	45485
1960	3330	5940	517	363	195	10720	2300	2610	1100	5710	7690	10210	50685
1961	8420	19620	1260	573	289	5450	17900	745	26350	296	7360	3830	92093
1962	1080	1410	458	903	1380	1160	2730	319	492	1110	6430	3260	20732
1963	4790	3310	452	254	319	423	384	229	487	3840	280	1270	16038
1964	1210	1970	4130	4940	13220	3190	357	421	614	283	569	951	31835
1965	552	1300	338	264	1420	566	517	745	1160	600	1780	5760	15002
1966	3610	8250	1370	14260	7980	556	656	1970	1390	3210	253	504	44009
1967	1010	423	333	1110	825	521	854	685	3960	700	276	1480	12177
1968	3850	482	1430	1180	9090	10310	903	598	2460	861	4340	4020	39524
1969	2190	13640	5400	2570	2460	506	540	644	820	473	930	1580	31753
1970	855	967	4700	1420	23560	3360	599	425	1130	9580	1880	461	48937
1971	394	584	312	475	1270	370	382	2700	3020	756	388	9100	19751
1972	3190	1720	13240	886	13880	909	843	1230	1610	2460	7410	1890	49268
1973	6230	8490	4280	19530	1510	32650	7570	2360	9190	16580	2130	2150	112670
1974	16210	1310	3360	1520	4710	751	991	2570	6270	1350	20130	5710	64882
1975	2650	5520	2930	6010	9060	3970	5180	5810	821	3600	1840	3250	50641
MAX	16210	19620	13240	19530	23560	32650	17900	7000	26350	16580	20130	10210	112670
MIN	3.60	19.0	2.80	7.90	15.0	7.30	28.0	50.0	117	0	0	0	4012
MEAN	3192	4002	2134	2911	5111	3333	2871	1609	2903	2841	3047	2744	36698
NO.	23	23	23	23	23	23	23	23	23	24	24	24	23
DISTR													
OF MEAN	8.7%	10.9%	5.8%	7.9%	13.9%	9.1%	7.8%	4.4%	7.9%	7.7%	8.3%	7.5%	100%

SAN JACINTO RIVER BASIN
08078500 Halls Bayou at Houston, Texas

LOCATION: Lat 28°51'42", long 96°20'05", Harris County, at the bridge on Jensen Drive in the northeast section of Houston, and 11.0 mi (17.7 km) upstream from the mouth.

DRAINAGE AREA: 24.7 mi² (64.0 km²).

PERIOD OF RECORD: October 1952 to December 1976.

GAGE: Water-gage recorder. Datum of gage is 0.68 ft (0.201 m) below mean sea level, datum of 1929, adjustment of 1957; unadjusted for land-surface subsidence.

AVERAGE DISCHARGE: 24 years, 18,138 ac-ft/yr (22.4 km³/yr).

EXTREMES: Period of record (1952-76): Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 21, 1972 (gage height, 60.70 ft or 18.501 m); maximum gage height, 60.75 ft (18.517 m) June 13, 1973; no flow at times prior to 1956.

REMARKS: Records fair. No diversion above station. The low flow is partly sustained by the sewage effluent from the Houston suburbs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	-	0	237	763	-
1953	294	640	81.0	97.0	6180	69.0	80.0	304	81.0	149	949	817	9741
1954	1340	87.0	30.0	175	129	4.60	4550	302	39.0	364	181	41.0	7243
1955	641	4270	23.0	40.0	73.0	50.0	778	1410	778	297	23.0	132	8515
1956	579	662	80.0	57.0	61.0	119	26.0	120	15.0	59.0	37.0	108	1923
1957	19.0	58.0	1350	1830	551	138	428	51.0	1390	2740	2670	233	11458
1958	2960	1770	288	761	245	237	120	348	1530	285	319	109	8972
1959	306	5000	348	2700	3910	644	5280	4410	237	1740	570	2280	27425
1960	1930	2930	379	303	101	4550	1540	675	314	2350	4470	4770	24312
1961	3740	7070	614	563	323	3990	9150	493	8660	118	4170	2510	41401
1962	815	882	278	533	966	1750	794	99.0	118	493	2060	1590	10378
1963	2360	1710	312	190	147	282	306	48.0	133	238	157	574	6457
1964	358	565	1050	1020	3410	520	84.0	906	787	139	454	887	10180
1965	266	554	154	188	379	237	128	960	1540	613	1650	3960	10629
1966	2700	4990	1080	5330	2850	718	340	420	714	1670	129	247	21188
1967	534	304	191	472	702	295	567	534	2090	528	139	764	7120
1968	2730	421	1100	951	4870	6300	612	346	1900	1040	1980	1760	24010
1969	1660	5340	2800	1740	2090	261	524	488	310	275	315	867	16670
1970	600	663	2300	523	10670	824	620	293	1010	5300	1320	316	24439
1971	282	485	306	428	1370	275	268	1120	1610	542	337	3960	10983
1972	2450	1300	7700	801	5910	643	889	1070	1220	879	3990	1290	28142
1973	3890	3520	2210	7530	656	14570	3700	2540	5430	6510	914	1150	52620
1974	7580	660	2020	776	2710	352	554	1010	3190	783	5860	3010	28505
1975	1920	2740	1420	2440	4120	2590	3150	4070	877	2060	901	1640	27928
MAX	7580	7070	7700	7530	10670	14570	9150	4410	8660	6510	5860	4770	52620
MIN	19.0	58.0	23.0	40.0	61.0	4.60	26.0	48.0	15.0	0	23.0	41.0	1923
MEAN	1737	2027	1135	1280	2279	1714	1499	957	1477	1216	1410	1407	18138
NO.	23	23	23	23	23	23	23	23	23	24	24	24	23
DISTR OF MEAN	9.6%	11.2%	6.3%	7.1%	12.6%	9.4%	8.3%	5.3%	8.1%	6.7%	7.8%	7.8%	100%

SAN JACINTO RIVER BASIN
08076700 Greens Bayou at Ley Road at Houston, Texas

LOCATION: Lat 29°50'13", long 95°13'59", Harris County, at the Ley Road bridge, 300 ft (91 m) downstream from the mouth of Halls Bayou, and in northeast Houston.

DRAINAGE AREA: 182 mi² (471 km²).

PERIOD OF RECORD: October 1971 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 2.13 ft (0.649 m) below mean sea level, datum of 1929, adjustment of 1973.

REMARKS: Records poor. The discharge is computed for all storms which produce peak discharges over 700 ft³/s (19.8 m³/s). Tidal influences on the stage-discharge relationship affect the discharge below about 500 ft³/s (14.2 m³/s).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX	-	-	-	-	-	-	-	-	-	-	-	-	-
MIN	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAN	-	-	-	-	-	-	-	-	-	-	-	-	-
NO.	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	100%

SAN JACINTO-BRAZOS COASTAL BASIN

08077000 Clear Creek near Pearland, Texas

LOCATION: Lat 29°35'50", long 95°17'11", Harris-Brazoria County line, at the bridge on State Highway 35, 0.7 mi (1.1 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) upstream from Hickory Slough, 2.3 mi (3.7 km) north of Pearland, and about 30 mi (48 km) upstream from the head of Clear Lake.

DRAINAGE AREA: 38.8 mi² (100.6 km²).

PERIOD OF RECORD: August to October 1944, March to October 1946, April 1947 to December 1958, April 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 26.98 ft (8.102 m) above mean sea level, datum of 1928, adjustment of 1973; prior records unadjusted for land-surface subsidence. Prior to June 9, 1948, nonrecording gage, and June 9, 1948 to Apr. 22, 1952, water-stage recorder at same site and datum, 5.80 ft (1.768 m) higher.

AVERAGE DISCHARGE: 28 years (1944, 1946-59, 1963-75), 25,917 ac-ft/yr (32.0 hm³/yr).

EXTREMES: Period of record (1944, 1946-59, 1963-75): Maximum discharge, 2,170 ft³/s (61.5 m³/s) Mar. 18, 1957 (gage height, 16.80 ft or 5.121 m); no flow at times.

Flood of June 26, 1960 (stage and discharge unknown) probably exceeded that of Mar. 18, 1957, from records of rainfall and nearby stations. Because of the channel rectification in 1933, 1952, and 1968, there is no relation between historic floods and recent floods.

REMARKS: Records fair. A large area of rice land above the station is irrigated with water from the Brazos River. There are many diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	235	3760	851	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	1160	537	8060	10340	3070	1270	6830	2110	-	-	-
1947	-	-	-	239	3520	502	298	4720	1270	1100	489	1860	-
1948	1800	4800	1610	239	1560	296	485	112	904	945	3150	43.0	15944
1949	1660	6060	3870	5360	661	420	3930	3060	1090	29820	537	9880	66348
1950	7730	4170	196	1330	995	5240	1780	267	1520	1010	13.0	30.0	24281
1951	232	176	764	521	547	542	64.0	81.0	2870	505	61.0	33.0	6396
1952	47.0	860	69.0	2650	1700	1740	1300	380	2130	661	893	3290	15720
1953	1230	2950	324	861	4220	853	723	4980	3360	136	3000	4300	25937
1954	1150	141	131	423	717	373	419	1570	699	180	26.0	1.80	5831
1955	707	5800	17.0	336	1850	50.0	113	3780	1380	78.0	0	.80	14112
1956	50.0	483	23.0	304	999	162	138	486	501	17.0	5.40	3.33	3501
1957	0	26.0	10400	6490	2740	4180	237	461	1700	8140	5090	4.13	39877
1958	3700	2870	230	444	455	225	867	639	4260	404	105	26.0	14225
1959	141	16670	505	6700	2620	864	7280	7810	2000	2740	3580	4500	55410
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	174	157	1060	658	425	447	39.0	305	1770	-
1964	274	3710	877	296	557	271	693	745	959	268	977	3790	13417
1965	130	713	196	211	2140	1240	446	307	321	158	875	2220	8957
1966	2410	8030	948	8930	14120	1830	1380	2520	777	247	68.0	53.0	41313
1967	465	692	422	989	708	755	1040	1460	772	208	42.0	132	7685
1968	4400	364	681	1660	12200	13030	1580	331	996	1610	168	167	37187
1969	2690	6650	4370	1870	5590	414	595	412	997	424	251	2860	27123
1970	731	397	3580	1150	9640	1860	728	591	1700	5460	270	105	26212
1971	72.0	90.0	312	369	227	528	540	657	3260	80.0	42.0	3120	9297
1972	1060	1990	687	965	8740	3530	881	621	707	119	6120	524	25944
1973	4190	3640	4060	9260	1490	13310	8440	2050	9280	5880	1490	1270	64360
1974	10060	1180	2300	2290	5060	1690	2930	2550	6100	533	8450	3680	46823
1975	4690	1280	294	1630	6480	7190	2400	2830	346	1500	192	1310	30142
MAX	10060	16670	10400	9260	14120	13310	8440	7810	9280	29820	8450	9880	66348
MIN	0	26.0	17.0	174	157	50.0	64.0	81.0	321	17.0	0	.80	3501
MEAN	2067	3073	1521	2083	3620	2685	1593	1620	2176	2329	1392	1758	25917
NO.	24	24	25	27	27	27	27	28	26	28	26	26	24
DISTR OF MEAN	8.0%	11.9%	5.9%	8.0%	14.0%	10.4%	6.1%	6.2%	8.4%	9.0%	5.4%	6.8%	100%

SAN JACINTO-BRAZOS COASTAL BASIN
0807500 Hickory Slough near Pearland, Texas

LOCATION: Lat 28°34'47", long 95°17'40", Brazoria County, at a county road bridge, 0.2 mi (0.3 km) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.2 mi (1.9 km) north of Pearland, and 1.9 mi (3.06 km) upstream from the mouth.

PERIOD OF RECORD: August to October 1944, March to October 1946, April to October 1947, April 1948 to September 1949.

GAGE: Staff gage. Datum of gage is 42.14 ft (12.8 m) above mean sea level, datum of 1929, supplementary adjustment of 1943.

AVERAGE DISCHARGE: 5 years (1944, 1946-49), 3,639 ac-ft/yr (4.5 hm³/yr).

REMARKS: Records good. A large area of riceland above the station is irrigated with water from the Brazos River. The low flow is largely the drainage from irrigated lands.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	359	1200	382	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	123	46.0	1310	-	979	934	-	435	-	-	-
1947	-	-	-	73.0	-	168	106	-	183	166	-	-	-
1948	-	-	-	109	-	171	197	-	-	290	-	55.0	-
1949	286	-	289	-	248	272	-	-	539	-	-	-	-
MAX	286	-	289	109	1310	272	979	934	1200	435	-	55.0	-
MIN	286	-	123	46.0	248	168	106	359	183	166	-	55.0	-
MEAN	286	-	206	76.0	779	204	427	647	641	318	-	55.0	3639
NO.	1	0	2	3	2	3	3	2	3	4	0	1	0
DISIR OF MEAN	7.9%	.0%	5.7%	2.1%	21.4%	5.6%	11.7%	17.8%	17.6%	8.7%	.0%	1.5%	100%

SAN JACINTO-BRAZOS COASTAL BASIN

08078000 Chocolate Bayou near Alvin, Texas

LOCATION: Lat 29°22'09", Long 95°19'14", Brazos County, 800 ft (240 m) downstream from the bridge on Farm Road 1462, 6.9 mi (9.5 km) southwest of Alvin, and 6.9 mi (11.1 km) upstream from the bridge on State Highway 35.

DRAINAGE AREA: 87.7 mi² (227.1 km²).

PERIOD OF RECORD: August to October 1944, April to December 1946, January 1947 to January 1968, March 1969 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 10.31 ft (3.142 m) above mean sea level, datum of 1929. Prior to May 3, 1959, nonrecording gage or water-stage recorders located at various sites from 900 to 1,400 ft (270 to 427 m) upstream and at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE: 31 years (1944, 1946-75), 78,244 ac-ft/yr (96.8 hm³/yr).

EXTREMES: Period of record (1944, 1946-75): Maximum discharge, 7,400 ft³/s (210 m³/s) Oct. 8, 1949 (gage height, 21.80 ft or 6.645 m, present datum, from floodmarks before channel rectification); no flow at times.

Maximum stage in recent years, 22.9 ft (6.98 m) July 14, 1939, former site and present datum (adjusted from floodmark 1,700 ft or 518 m to right and 550 ft or 168 m upstream from present gage, on basis of slope of the flood of Oct. 8, 1949), from information by local residents.

REMARKS: Records fair. A large area of riceland above the station is irrigated with water from the Brazos River. There are many diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	5360	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	806	-	-	-	-	-	-	-	-	-
1947	11960	369	2310	428	13010	5560	6380	14450	7260	2710	911	4440	69788
1948	4140	14610	4440	797	5570	3480	3800	2880	7700	2730	4260	248	54655
1949	2520	12330	4240	12030	2120	3600	6370	7580	6770	70610	774	24390	153534
1950	9640	10300	376	2270	2270	3940	10530	7730	8080	1380	2400	4040	65678
1951	691	615	2900	2350	4070	5620	3000	4670	12150	1030	9840	238	37432
1952	5940	4700	1830	18890	14330	5030	4240	2390	5530	1060	1670	5570	65499
1953	1020	4630	618	1590	15470	5400	8180	16620	16420	540	17330	8180	95998
1954	3150	372	940	2440	5800	3410	3490	6300	2520	642	5740	1440	29135
1955	2060	11370	100	1130	3160	3530	4640	4460	2740	5540	190	185	33620
1956	100	1080	183	1370	2200	1830	1310	2380	3160	269	6440	5740	12003
1957	947	318	23300	8050	7580	14500	2010	2350	2870	17800	14180	1050	94018
1958	8490	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	3250	3950	6160	7610	24990	31450	4860	5550	15390	10520	-
1960	7080	10120	742	1230	2090	21060	4140	11500	3710	5080	5990	20410	93152
1961	22470	6500	655	1330	2680	29080	25090	6000	24330	466	16660	2760	138041
1962	419	240	396	4000	3200	6400	9340	3740	3720	4040	7360	15260	58135
1963	1890	1700	357	2010	2460	9500	7370	3010	2240	1140	711	2630	35218
1964	1060	4360	3180	1520	2850	2570	4940	2690	3860	555	3470	13910	44965
1965	635	1350	695	2380	5410	5010	5530	3890	2750	1120	5170	10660	44600
1966	7970	21940	1470	11810	20650	9810	7830	12290	4730	3020	1010	135	102665
1967	1710	2950	2290	3180	6460	4730	5390	3590	3250	1080	134	259	35023
1968	21940	1050	1330	12810	20900	52150	5610	3360	3480	4320	158	396	127504
1969	4200	13910	11340	8340	11120	4200	4070	4130	1960	3680	2360	7950	77260
1970	1640	1050	8850	4490	13000	7250	5670	4270	19380	13060	2100	322	81082
1971	215	458	1460	3470	3630	4120	4800	6140	22130	437	209	11780	58849
1972	4310	7720	890	1770	20740	32200	4560	937	8910	690	14180	4290	101197
1973	6930	8290	18480	25620	2640	32100	13040	7610	40360	20680	2870	2410	181030
1974	22260	2670	4270	3500	19030	6430	5700	5220	11690	1180	22480	7570	112200
1975	7330	2030	951	2570	12870	21110	7380	6200	1010	2960	317	3680	68408
MAX	22470	21940	23300	25620	20900	52150	25090	31450	40360	70610	22480	24390	181030
MIN	947	240	100	428	2090	1830	1310	937	1010	5540	2400	1440	12003
MEAN	5568	5446	3566	5039	8326	11389	7121	6662	8420	5996	5011	5700	78244
NO.	28	27	28	29	28	28	28	29	28	28	28	28	27
OF MEAN	7.1%	7.0%	4.6%	6.4%	10.6%	14.6%	9.1%	8.5%	10.8%	7.7%	6.4%	7.3%	100%

SAN JACINTO-BRAZOS COASTAL BASIN

08078500 Austin Bayou near Danbury, Texas

LOCATION: Lat 29°14'42", long 96°18'47", Brazoria County, at a county road bridge, 85 ft (25.9 m) downstream from the Missouri-Pacific Railroad Co. bridge, 1.5 mi (2.4 km) northeast of Danbury, and 8 mi (12.8 km) upstream from Flores Bayou.

PERIOD OF RECORD: August to October 1944, April to October 1946, May to November 1947.

GAGE: Water-stage recorder. Datum of gage is 5.375 ft (1.64 m) above mean sea level, datum of 1929, supplementary adjustment of 1943. Prior to April 1947, staff gage at same site and datum.

EXTREMES: Flood of July 12-14, 1939 reached a stage of 18.3 ft (5.6 m) at the Missouri-Pacific Railroad Co. bridge, from information by the Missouri-Pacific Railroad Engineering Department.

REMARKS: Records poor. A large area of riceland above the station is irrigated with water from the Brazos River. The low flow is largely drainage from irrigated lands. There are many diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	2760	8580	1550	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	316	-	-	-	1010	-	2870	-	-	-
1947	-	-	-	-	20510	1370	1580	8700	1780	1030	-	-	-
MAX	-	-	-	316	20510	1370	1580	8700	8580	2870	-	-	-
MIN	-	-	-	316	20510	1370	1580	1010	1780	1030	-	-	-
MEAN	-	-	-	316	20510	1370	1580	4157	5180	1817	-	-	34930
NO.	0	0	0	1	1	1	1	3	2	3	0	0	0
DISTR OF MEAN	.0%	.0%	.0%	.9%	58.7%	3.9%	4.5%	11.9%	14.8%	5.2%	.0%	.0%	100%

SAN JACINTO-BRAZOS COASTAL BASIN

08079000 Oyster Creek near Angleton, Texas

LOCATION: Lat 29°09'30", long 95°28'32", Brazoria County, at the bridge on State Highway 36, 2.7 mi (4.3 km) west of Angleton, 4.1 mi (6.6 km) upstream from the Missouri-Pacific Railroad Co. bridge, 4.5 mi (7.2 km) downstream from Styles Bayou, and about 45 mi (72 km) upstream from the Gulf of Mexico.

DRAINAGE AREA: 171 mi² (443 km²).

PERIOD OF RECORD: October 1944 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1.31 ft (0.399 m) below mean sea level, datum of 1929. Prior to Apr. 30, 1958, at site 500 ft (150 m) downstream at same datum.

AVERAGE DISCHARGE: 32 years, 131,794 ac-ft/yr (162.5 hm³/yr).

EXTREMES: Period of record (1944-75): Maximum discharge, 10,800 ft³/s (300 m³/s) May 10, 1957 (gage height, 31.45 ft or 9.566 m, present site, overflow from the Brazos River; minimum, 0.3 ft³/s (0.008 m³/s) at times in 1965-66.

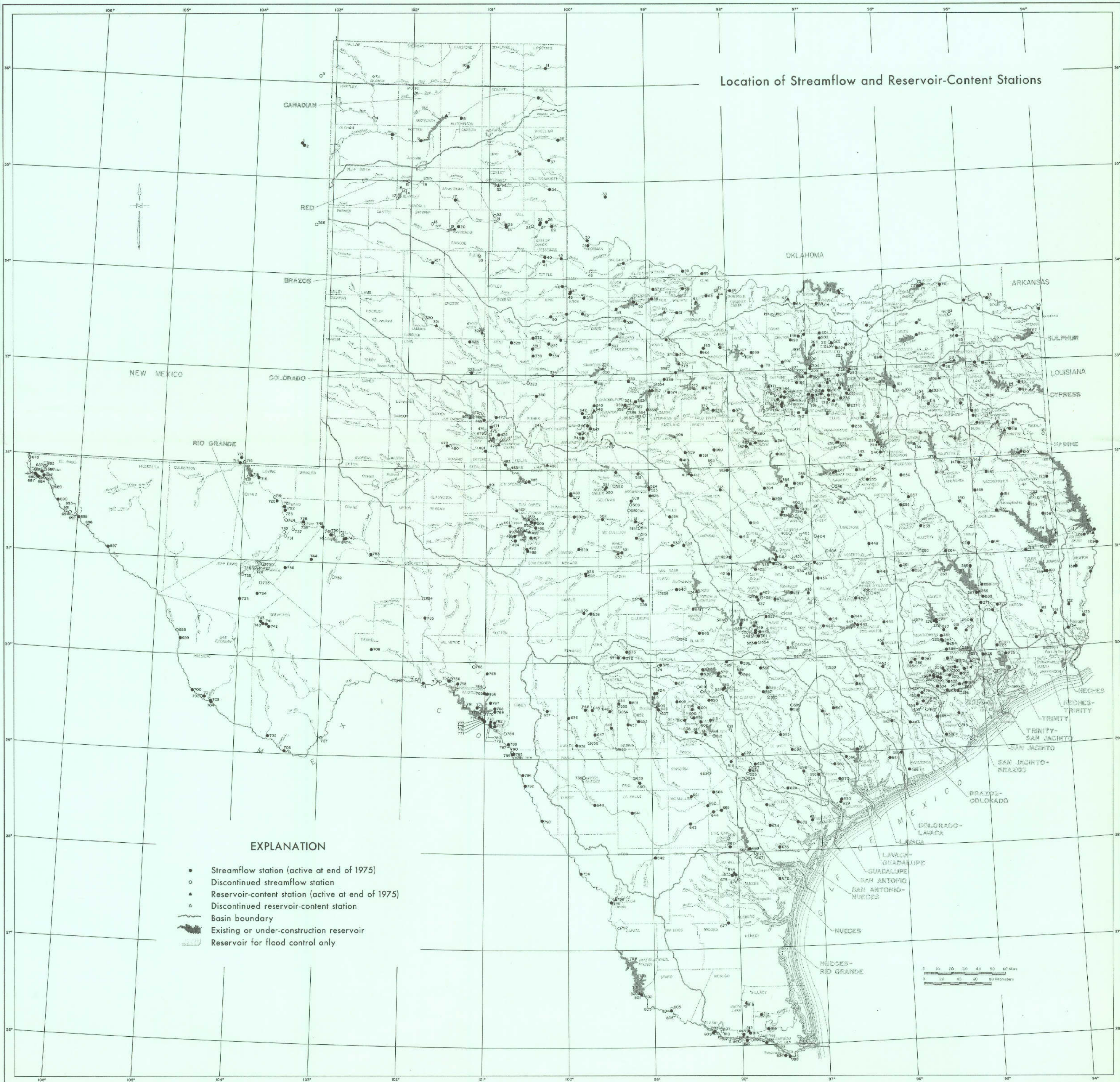
Maximum stage since about 1800, 32.2 ft (9.81 m) in December 1913. At extreme high stages, the Brazos River overflows into Oyster Creek above this station.

REMARKS: Records good. There are many diversions above the station for irrigation. A large part of the flow is water released from William Harris Reservoir (capacity, 12,000 ac-ft or 14.8 hm³) for industrial use below the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	-	-	5930	2050	3330	-
1945	3760	2820	1390	16260	4340	2030	2390	7550	8470	2700	1600	9310	62620
1946	21630	11460	9410	2300	16780	35390	21920	3410	7080	14010	56870	20860	221120
1947	13490	3110	7020	2020	14330	4660	2470	7230	5580	1820	1550	3470	66750
1948	3110	13760	9090	3460	2060	1740	2050	2190	1640	1620	1220	1330	43270
1949	1730	7070	9210	20050	9240	2600	1500	3510	1820	71450	10350	25410	163940
1950	20310	16680	7530	2580	4790	10500	3060	2950	3000	2970	2750	2780	79900
1951	2900	2450	5860	2780	4070	8000	4930	4560	7990	4940	5420	6110	60010
1952	5640	8400	4400	20210	8400	8970	5090	5120	4770	4430	4660	6300	86390
1953	4370	6760	8110	7830	23070	7840	7980	8500	13600	8310	28640	14330	139340
1954	11070	7830	10990	4660	8620	10860	6120	4320	3890	4770	4580	4620	82330
1955	4940	9620	5110	2360	1810	8950	7450	4480	7680	3050	1900	1580	58930
1956	7800	7680	7950	8700	9410	6250	1270	5510	6490	6720	8730	8190	84700
1957	8970	3200	12220	11720	231600	19280	9930	8040	9820	16420	17000	9160	357360
1958	13290	11200	8040	8470	9420	9140	8040	4060	10900	7060	6270	7620	103510
1959	2650	25200	7560	11870	10120	9090	15570	18640	8800	9510	9220	13420	141650
1960	12680	11770	8010	4420	5730	14560	11020	9210	4860	11310	9970	24260	127800
1961	35480	11130	7880	7920	9000	34530	35990	9040	48780	10350	27510	15560	253170
1962	9100	7110	7940	5120	5860	9880	9040	8850	10030	9670	8510	15730	106840
1963	12550	7570	6330	9300	9880	4470	9850	10330	9730	9160	6170	11210	106550
1964	9050	9280	10330	8850	9090	8790	6830	8870	8990	1660	2150	9840	93730
1965	4460	6010	4870	6810	41690	25760	10160	10300	9690	4100	6910	12300	143060
1966	6970	14680	4600	8170	20470	5820	1360	4590	7690	9220	7880	7320	98770
1967	8340	8970	9650	9740	9660	8660	9900	11780	10160	10050	8510	9010	114430
1968	27690	7750	7550	15030	21850	59500	12420	8120	8940	9940	7570	7150	193510
1969	9790	17830	16000	11680	19770	7230	6750	8390	7920	8410	8350	11480	133600
1970	8750	8080	16260	11120	28110	21610	8650	8200	23100	32360	10990	8270	185500
1971	7620	7000	8960	9230	9050	8170	9480	8700	15990	8350	6720	16350	115620
1972	8260	13090	6860	8360	17990	9600	8580	8400	13390	9980	16550	9500	130560
1973	11640	16510	27200	40620	10870	47920	14650	12010	75980	24300	12130	9260	303090
1974	25850	11670	12530	6900	17570	7540	9060	9160	9030	8170	14550	13020	145050
1975	14560	7460	7450	7820	9280	15380	5970	6590	6480	6190	5970	8940	102090
MAX	35480	25200	27200	40620	231600	59500	35990	18640	75980	71450	56870	25410	357360
MIN	1730	2450	1390	2020	1810	1740	1270	2190	1640	1620	1220	1330	43270
MEAN	10918	9779	8913	9560	19482	14023	8693	7504	12009	10592	10102	10219	131794
NO.	31	31	31	31	31	31	31	31	31	32	32	32	31
DISTR OF MEAN	8.3%	7.4%	6.8%	7.3%	14.8%	10.6%	6.6%	5.7%	9.1%	8.0%	7.7%	7.8%	100%

Location of Streamflow and Reservoir-Content Stations



EXPLANATION

- Streamflow station (active at end of 1975)
- Discontinued streamflow station
- ▲ Reservoir-content station (active at end of 1975)
- △ Discontinued reservoir-content station
- Basin boundary
- Existing or under-construction reservoir
- ▨ Reservoir for flood control only

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