

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

<u>From Unit</u>	<u>Multiply by</u>	<u>To obtain Unit</u>
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:

Station	Years
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 Fowlerton	1915-19
Frio River at Fowlerton	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:

Station	Years
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 WID 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 NE¼NE¼ 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 (28,855 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 1925, January 1927 to April 1934, August 1934 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 3,668.1 ft (1,118.04 m) above mean sea level.

AVERAGE DISCHARGE: 58 years (1909-14, 1924-25, 1927-75), 176,143 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	16.00	330894
1936	1250	990	121	0	2610	13670	48840	16490	3330	750	30.0	34.0	88115
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	4.52	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	8.45	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	2.06	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	1.03	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	2.60	76039
1958	446	232	2230	2040	50810	44110	21560	35980	25170	621	373	3.83	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	516	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	23880	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	25356	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 35°20'28", long 103°23'40", in SW¼NW¼ sec. 24, T. 13 N., R. 33 E., Quay 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 hm³/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	10500	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
DISTR 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

0727200 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: 556 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, 2,960 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 Aqua Creek near Channing, Texas

LOCATION: Lat 35°40'03", long 102°28'48", Hartley County, at the bridge on Farm Road 767, 8.5 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 2,068 mi² (5,356 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 (685 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 (14.9 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	.40	-
1968	94.0	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 35°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 (164.9 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 27,500 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 36,000 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	740	1160	1220	339	28030	89860	24600	19060	127900	19440	3400	3080	318829
1970	3520	1130	1350	27810	2430	1120	3130	12910	7260	3780	1220	810	66470
1971	1380	1340	661	1700	13710	23990	49850	43430	8790	3810	16130	2230	167021
1972	2150	1050	215	18.0	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	385	836	0	2870	265	117	45260	9740	16030	3190	1370	80669
1975	1670	2210	1570	1900	1050	12270	7780	4460	2.00	0	0	41.0	32953
MAX	3520	2210	1840	27810	28030	89860	57540	82620	127900	19440	16130	3080	318829
MIN	606	385	215	0	1050	229	117	4460	2.00	0	0	41.0	32953
MEAN	1652	1264	1099	5677	7976	19039	21862	30591	32685	7213	3366	1310	133734
NG.	7	7	7	7	7	7	7	7	7	8	8	8	7
DISTR OF MEAN	1.2%	.9%	.8%	4.2%	6.0%	14.2%	16.3%	22.9%	24.4%	5.4%	2.5%	1.0%	100%

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 1929. 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 (335.5 hm³/yr).

EXTREMES: Period of record (1924-25, 1938-75): Maximum discharge, 135,000 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	33820	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	283	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	166290
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	2440	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	15066	36316	39469	51379	39883	44068	27419	4739	3376	272137
NO.	40	40	40	40	40	40	40	40	40	40	40	40	40
DISTR 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: Water-stage 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 888.465 m); minimum contents since the first appreciable storage, 219,900 ac-ft (271 hm³) Apr. 10, 11, 1967 (elevation, 2,883.10 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 19,300 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	328200	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	434800	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	3280	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 35°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, 6.65 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	.1%	.1%	1.3%	.6%	9.4%	13.5%	57.7%	16.9%	.0%	.0%	.2%	.1%	100%

CANADIAN RIVER BASIN

07228000 Canadian River near Canadian, Texas

LOCATION: Lat 35°56'06", 100°22'13", Hemphill County, at the bridge on U.S. Highways 60 and 83, 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 2.99 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	32.0	89.0	109	92.0	407772
1940	601	11690	459	179	11790	11530	1050	14620	8640	75.0	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	39.0	74.0	75.0	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	61.0	4.95	88085
1946	3190	1840	108	77.0	33400	18180	40.0	18100	104800	257000	6550	11950	455235
1947	18180	2310	15430	15410	66010	11600	17540	111	29.0	46.0	223	2.86	147175
1948	1070	8770	17790	144	1990	156400	5810	72930	1060	76.0	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	93.0	21.0	2100	20060	2200	100	117	2220	34711
1953	9360	2650	1640	90.0	345	7220	55500	63220	47.0	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	21.0	65.0	122	133	97829
1957	94.0	1910	8470	23150	127800	40190	13840	93140	14260	14310	6220	2860	346244
1958	8570	5890	15920	10460	54370	58240	268000	68370	68280	226	898	2000	561224
1959	3310	1570	342	2060	22280	8860	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	19180	186000
1962	11440	6920	1200	5520	28.0	6680	19310	60390	3380	862	1150	4150	121030
1963	2260	5480	1640	243	1130	13970	1480	5270	10600	44.0	69.0	4.57	42643
1964	1850	9340	1070	68.0	1340	10530	9.7	2.00	266	138	4270	5820	34704
1965	3410	2850	5150	460	7110	62730	179	5510	1650	2600	1370	3000	96019
1966	2270	4770	1560	916	85.0	20.0	3620	1640	5260	88.0	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	5.00	15850	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	71.0	128	662	1790	77412
1974	2360	3310	20090	2530	1050	993	20.0	723	328	1570	2340	2080	37394
1975	5150	6360	4290	3850	6210	3620	4920	2890	43.0	21.0	1470	2440	41264
MAX	33240	21850	36370	355700	502000	534100	376200	216700	440300	628000	83110	42660	2873070
MIN	94.0	1570	108	68.0	28.0	20.0	1.20	2.00	21.0	21.0	61.0	92.0	21895
MEAN	8550	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 2,961.63 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, 1946 (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	4.31	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	11657
1959	165	64.0	73.0	70.0	70.0	301	3380	472	57.0	41.0	42.0	492	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	896	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	740	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 (1.759 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	8595
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 (13.5 km) southwest of Umbarger, and 9 mi (14.5 km) upstream from Buffalo Lake Dam.

DRAINAGE AREA: 1,968 mi² (5,097 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	181	148	31.0	537	926	815	131	493	4663
1943	181	142	144	189	207	80.0	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	9960	1360	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°55'26", 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 1,500 mi² (3,885 km²) is probably noncontributing.

PERIOD OF RECORD: June 1938 to September 1953, 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 (30.9 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 3,612.42 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 hm³/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 hm³), 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	.40	.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 6 mi (9.6 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 3,584.42 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 35°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 (6,884 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 3,455 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 0.8 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	24.0	33.0	64.0	-
1925	301	360	235	308	180	745	1260	1900	1880	845	344	267	8625
1926	243	179	172	167	1600	1820	49.0	15.0	0	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	2640	161	1.40	2.40	0	119	0	0	-
1939	65.0	0	0	258	0	1250	6.70	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	7.10	26560	2860	506	66283
1942	491	348	409	537	286	32.0	35.0	0	0	577	136	161	3012
1943	166	148	173	159	51.0	6.30	1640	.60	0	0	0	1.40	2345
1944	93.0	66.0	78.0	38.0	2.00	103	1290	31.0	10.0	0	.20	8.90	1720
1945	19.0	32.0	18.0	22.0	3.40	0	0	112	0	0	0	0	206
1946	0	0	0	0	0	0	0	0	0	5200	80.0	13.0	5293
1947	11.0	2.20	9.1	28.0	3440	77.0	0	0	0	0	0	0	3567
1948	0	0	0	0	0	0	0	236	260	15.0	762	5.00	1278
1949	12.0	14.0	104	39.0	2990	2420	20.0	23.0	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 (10,906 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 (750.948 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 (35.3 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.	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, 250 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 1939 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 1929. 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 (1939-73): 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	28.0	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	700	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	.80	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

07298100 Mackenzie Reservoir near Silverton, Texas

LOCATION: Lat 34°32'43", long 101°26'16", 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 hm³). 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°32'38", 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: 1,150 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, 5,554 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	550	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	86.0	.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	801
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	25110	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), 64,944 ac-ft/yr (80.1 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 (616 km²) is probably noncontributing.

PERIOD OF RECORD: September 1949 to July 1951.

GAGE: Moveable wire-weight gage and crest-stage indicator. Datum of gage is 2,090.27 ft (637.1 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, 15.24 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 657, 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: 6,792 mi² (17,591 km²), of which 4,769 mi² (12,352 km²) is probably noncontributing.

PERIOD OF RECORD: May 1963 to December 1975.

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	82.0	81.0	89.0	-
1964	96.0	135	69.0	59.0	44.0	12980	383	1900	6720	1220	1810	364	25780
1965	109	104	51.0	1290	68.0	85980	2450	1150	6740	813	78.0	169	99002
1966	110	66.0	52.0	212	625	14050	947	31710	16080	102	108	74.0	64136
1967	57.0	60.0	102	818	191	4570	12410	348	905	663	50.0	71.0	20245
1968	514	95.0	131	370	8800	22280	1070	69750	2390	538	451	151	106540
1969	100	99.0	706	1.40	18970	7790	732	8410	8870	3610	1120	301	50709
1970	66.0	61.0	64.0	9340	246	143	4.50	83.0	1680	6.20	65.0	15.0	11774
1971	13.0	63.0	15.0	1.10	593	2650	506	4800	13160	9950	2730	1370	35851
1972	69.0	17.0	6.00	3.00	6540	10780	20330	2280	1240	40.0	2260	56.0	43621
1973	123	18.0	12250	18500	7090	3120	3650	6290	16640	1440	50.0	37.0	69208
1974	69.0	45.0	1540	1490	32970	4680	5.40	16770	9320	4210	2560	92.0	73751
1975	120	400	151	349	5490	27220	7760	825	846	41.0	1220	75.0	44497
MAX	514	400	12250	18500	32970	85980	20330	69750	16640	9950	2730	1370	106540
MIN	13.0	17.0	6.00	1.10	44.0	143	4.50	83.0	846	6.20	50.0	15.0	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	14.0	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°35', long 100°26', 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 4,500 mi² (11,655 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 (1924-25, 1938-47), 112,621 ac-ft/yr (138.9 hm³/yr).

EXTREMES: Period of record (1924-25, 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	3950	376549
1942	755	114	683	24400	426	1980	1880	3920	1670	37230	509	1740	75507
1943	449	11.0	0	8700	12320	7530	16750	0	115	0	0	851	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.	12	12	12	12	12	12	12	12	12	10	10	10	10
DISTR 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: 66.6 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°35'26", 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 (97.0 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 58,800 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	84080	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	1820	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 (12,352 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	92.0	556	341	69627
1964	375	3810	440	105	677	19290	14.0	34.0	11800	205	3330	1140	41220
1965	365	353	368	7930	677	108800	6060	16.0	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	40.0	359	87.0	38.0	34.0	19473
1971	124	266	93.0	176	5940	33660	455	31400	35720	8770	5280	5560	127444
1972	948	270	51.0	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	23.0	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	51.0	105	312	399	0	16.0	359	87.0	38.0	34.0	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°21'16", 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 (434.550 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 10,623 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 191 mi² (495 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 (55.1 hm³) June 26-28, 1975 (elevation, 2,655.71 ft or 809.460 m); minimum contents, 2,950 ac-ft (3.64 hm³) Aug. 29, 30, 1967 (elevation, 2,607.37 ft or 794.726 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,800 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.	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

07299850 Salt Fork Red River near Clarendon, Texas

LOCATION: Lat 35°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, 14,697 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, 16.5 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 (3,165 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 1,941.41 ft (591.742 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 24 years, 43,613 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	1180	1660	524	105	29660	3040	374	4460	1040	1280	44759
1954	1510	757	494	2330	33340	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	1070	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: 1,566 mi² (4,056 km²), of which 209 mi² (541 km²) is probably noncontributing.

PERIOD OF RECORD: May 1905 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 (78.1 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 16, 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	1680	19538
1944	6300	2390	5840	1160	1020	22540	7510	920	946	1390	1450	5140	56606
1945	4280	2400	5460	4190	596	6170	5130	341	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	53835
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%	8.4%	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°36'32", Gray County, at the bridge on State Highway 273, 5 mi (8 km) upstream from the mouth, and 6.6 mi (10.6 km) north of McLean.

DRAINAGE AREA: 759 mi² (1,966 km²), of which 299 mi² (774 km²) is probably noncontributing.

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,546.99 ft (776.018 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 16,999 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	27.0	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	59.0	.30	0	0	57.0	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	65.0	122	571	497	33298
MAX	1990	3060	2730	6590	15530	12920	1220	1710	1040	2040	3780	1670	33298
MIN	636	280	492	652	360	59.0	0	0	0	57.0	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 (660.060 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 (gage 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 6.16 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	16.0	129	660	970	-
1965	800	1210	1110	1100	204	21950	96.0	0	1940	2790	215	817	32232
1966	300	515	38.0	446	96.0	0	24.0	2350	3620	0	0	5.90	7395
1967	848	353	217	1590	1410	4340	4530	676	135	1950	27.0	1290	17366
1968	940	1540	1890	1700	5730	9870	2270	404	79.0	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	24.0	0	0	0	0	10434
1971	0	1390	740	0	397	96.0	0	30.0	9.4	3700	2070	1190	9622
1972	999	639	4.00	232	3320	535	2220	283	896	36.0	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	6.60	4470	912	50955
MAX	1820	2660	5200	15010	19280	21950	4530	3410	3620	3700	4470	1290	50955
MIN	0	353	4.00	0	96.0	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 (1961-75): Maximum discharge, 2,110 ft³/s (59.8 m³/s) Apr. 18, 1970 (gage height, 14.95 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													ANNUAL
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	51.0	0	3.00	45.0	499	766	7868
1965	815	817	1020	946	988	5140	310	54.0	1810	1790	930	1130	15750
1966	904	1190	1030	902	543	167	121	69.0	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	63.0	43.0	216	621	658	10743
1971	614	563	570	519	208	857	49.0	43.0	88.0	404	762	725	5402
1972	748	738	610	578	1310	370	361	71.0	75.0	55.0	252	449	5617
1973	613	730	1980	3490	2190	607	195	128	970	544	630	922	12999
1974	912	811	1980	934	967	286	27.0	65.0	349	353	2050	760	9494
1975	825	986	1070	1060	1900	1580	801	244	71.0	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	27.0	0	3.00	45.0	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 1945 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 (6.6 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	1880	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	734	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 62 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

07307750 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: 1,086 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 1,630 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 (455.060 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 (Sante Fe) bridge, and 8 mi (12.9 km) north of Crowell.

DRAINAGE AREA: 2,940 mi² (7,614.6 km²), of which 530 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	106496
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	16810	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	63320	15860	3150	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 99°16'40", Wilbarger 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 559 mi² (1,448 km²) is probably noncontributing.

PERIOD OF RECORD: December 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,166.03 ft (355.406 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	-	-	-	-	-	-	-	-	-	-	-	1000	-
1960	2710	2920	1310	332	2100	33460	24190	4220	824	65010	2340	3680	143096
1961	2870	5000	8840	2200	376	7020	21830	1410	1630	3000	2090	464	53733
1962	383	158	950	5150	818	56410	16800	3990	16970	3950	3250	1750	109724
1963	568	570	2280	1830	10190	26940	550	300	10940	0	984	130	54400
1964	180	2470	380	360	1870	1610	0	999	1140	480	3090	140	11301
1965	690	110	520	824	7310	5660	270	340	53250	41230	2810	2960	114128
1966	1250	976	910	1510	631	6900	369	16080	17930	752	104	950	47507
1967	460	800	300	19210	5370	8330	7930	1130	3950	1290	144	810	47492
1968	4610	1600	4690	1970	10620	18870	7190	15000	2860	389	729	657	69185
1969	285	545	1300	396	7760	13100	101	3740	9130	9460	3520	840	50177
1970	983	356	5050	3020	2550	1230	0	1370	845	90	0	0	15413
1971	0	0	0	0	6190	12940	0	5220	30090	7190	1400	1950	64980
1972	702	455	510	1190	25780	8210	5240	3420	22990	6720	4210	1490	80917
1973	7160	2920	16550	21390	7080	20200	16480	3730	44770	8290	2120	1150	151840
1974	781	570	1650	488	21100	32120	530	400	41770	11070	7800	2050	119492
1975	1870	6100	3150	3840	9000	10400	72870	13730	2970	1820	4860	1370	131980
MAX	7160	6100	16550	21390	25780	56410	72870	16080	53250	65010	7800	10000	151840
MIN	0	0	0	0	376	1230	0	300	824	0	0	0	11301
MEAN	1515	1541	2899	3960	7422	16463	10821	4634	16379	9827	2466	1680	79607
NO.	16	16	16	16	16	16	16	16	16	16	16	17	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%

RED RIVER BASIN

07308500 Red River near Burkburnett, Texas

LOCATION: Lat 34°06'30", 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), 609,279 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. 19, 1965 (gage height, 11.46 ft or 3.493 m); maximum gage height, 12.64 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 166 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	128000	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	2680	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	25870	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	29980	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	89450	136000	356200	242500	368900	365700	195000	252500	490500	93310	65500	1226710
MIN	340	465	490	8.70	704	8790	3.60	80.0	5080	1340	57.0	183	99492
MEAN	18535	20857	26214	47738	74676	127399	53953	40811	76586	73420	32120	16970	609279
NO.	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) southeast of Paducah.

DRAINAGE AREA: 540 mi² (1,399 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, 29.5 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 1929.

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 2.490 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	455	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, 1,680 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 1900 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	410	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	282	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", Foard-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, 46,081 ac-ft/yr (56.8 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 28,900 ft³/s (818 m³/s) Sept. 19, 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 1929.

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	319	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, 10,957 ac-ft/yr (13.5 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	895	909	996	477	3530	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	1810	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°38'39", 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 4.694 m); maximum gage height, 16.48 ft (5.023 m) Oct. 18, 1965; 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	93.0	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	84.0	816	337	10370
1964	298	899	302	188	491	3350	40.0	67.0	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	51.0	230	613	387	16766
1969	330	349	446	311	4430	927	41.0	1630	14910	9020	2620	1080	36094
1970	865	575	5460	1160	759	231	4.40	18.0	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	23.0	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	51.0	84.0	264	307	10370
MEAN	679	608	1258	2007	3814	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 99°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 (16.9 km) northwest of Seymour.

DRAINAGE AREA: 1,874 mi² (4,854 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, 125,920 ac-ft/yr (155.2 hm³/yr).

EXTREMES: Period of record (1969-75): 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	14120	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 Kemp near Mabelle, Texas

LOCATION: Lat 33°45'30", long 99°09'03", Baylor County, in the outlet gate tower near the center of the dam on the Wichita River, 6.2 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 8,890 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	124500	125200	123100	121700	168600	197200	197200	180200	186200	247800	247800	245200
1926	242700	226700	236400	245200	220700	256900	280600	276600	297300	279300	271200	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	250400	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	201800	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	321400
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	323400	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	129000	290300	338800	301700	271200	246500	230300	219500	218300
1955	219500	220700	224300	213500	255600	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	240300	240500	239100
1969	234800	239900	244900	240700	268600	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	130100	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 1959 to December 1975.

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 (1959-75): 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	6820	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	247	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	1010	641	4380	8130	1020	8950	16830	12750	3730	18450	60640	3180	139711
1973	8000	8770	7680	1810	6170	5460	19760	12530	10510	7740	2340	2640	88479
1974	47.0	70.0	2440	35300	7720	13090	20790	8840	99.0	50.0	519	33.0	88998
1975	26880	29.0	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	47.0	29.0	166	1810	621	166	8610	6220	99.0	50.0	23.0	26.0	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 (76.0 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	77.0	1.28	60405
1974	163	54.0	121	2950	5170	13010	21180	11960	8150	1610	163	89.0	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	54.0	121	2250	3530	2790	8270	6920	3650	1610	77.0	89.0	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 Kamay, 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 991.3 ft (302.15 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, 33.57 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	1380	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 924.26 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, 1938 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	252400	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	11000	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 98°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 683,970 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	26810	30120	42290	11490	20520	20000	15700	25070	47720	13430	7280	285400
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	26810	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 1946 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 (1946-75): 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, 1,029.8 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 98°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 (284.903 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, 17,900 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	.20	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	5.60	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	4.06	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	3360	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	6.90	0	3050	9230	1870	17360	82180	11480	120	34.0	8.70	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	651	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	.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	1660	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	0
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 98°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 (323.2 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												
CF 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 1929. 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, 7,630 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, 1957; 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	24.0	64580	3430	333	75153
1954	0	0	0	7040	55600	16210	299	0	0	46.0	0	297	79492
1955	402	1590	955	2930	16760	19990	849	5.40	39020	39920	82.0	0	122503
1956	367	15.0	0	0	10740	2890	0	131	46.0	4790	2010	1780	22769
1957	.20	2410	4150	50100	201600	41210	408	2.20	406	6340	50840	478	357944
1958	279	70.0	754	1020	20680	204	5860	518	1230	243	68.0	2.60	30929
1959	0	0	267	493	1960	22820	4620	2.20	1950	23800	673	5830	62415
1960	2320	8360	1040	16.0	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	8.90	2470	4210	26940	4770	91.0	28620	5740	19010	36250	130310
1963	276	7.10	1300	3600	1320	2360	351	0	597	2220	2430	205	14666
1964	581	5740	225	2580	3410	5900	0	1610	15970	291	4580	62.0	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	55.0	5260	1190	4110	1540	0	0	0	0	1180	179	15814
1969	0	2340	9230	23.0	7950	354	.60	6.00	3470	70.0	9.6	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	76.0	129	2200	3520	0	12218
1973	2510	1450	4880	1860	52.0	559	2370	107	530	1010	2250	.10	17578
1974	0	8.70	259	61.0	1690	242	0	0	11560	1570	4420	0	19811
1975	0	815	191	497	33740	1780	1800	720	6150	0	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	.8%	1.9%	2.9%	9.7%	32.9%	12.1%	2.0%	1.6%	11.3%	12.9%	7.6%	4.3%	100%