TEXAS WATER COMMISSION

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

CIRCULAR NO. 63-01

DRAINAGE AREAS OF TEXAS STREAMS<br>TRINITY RIVER BASIN AND<br>TRINITY-SAN JACINTO COASTAL AREA

Prepared in cooperation with the U. S. Geological Survey

## TABLE OF CONTENTS

Page
INTRODUCTION ..... 1
ADMINISTRATION AND ACKNOWLEDGMENTS ..... 1
TOPOGRAPHY ..... 1
CONCEPTS OF DRAINAGE AREAS ..... 2
METHOD OF DRAINAGE-AREA DETERMINATION ..... 2
TABULATION OF DATA ..... 5
FUNCTION OF COORDINATING OFFICE ..... 5
TRINITY RIVER BASIN ..... 7
TABLES OF DRAINAGE-AREA DATA
3. Trinity River Basin. ..... 8
3a. Trinity-San Jacinto Coastal Area ..... 21
ILLUSTRATIONS
Figures

1. Contour map of Texas showing principal physiographic provinces ..... 3
2. River basins and coastal areas of Texas ..... 4

## DRAINAGEAREASOFTEXAS STREAMS

## INTRODUCTION

An accurate figure for drainage area is one of the most significant factors used in hydrologic investigations of a river basin and in the hydraulic computations for the design of structures on a stream. This report is being compiled so that drainage-area information of uniform accuracy and reliability will be available to all users of these data for any foreseable hydraulic, hydrologic, or general engineering use.

In 1951 the Subcommittee on Hydrology, Federal Inter-Agency River Basin Committee, delegated the U. S. Corps of Engineers as the official coordinating agency for drainage areas in the Arkansas and Red River basins, and the U. S. Geological Survey as the official coordinating agency for all other river basins in Texas.

In November 1954 the data for the Red and Arkansas Rivers were published by the Corps of Engineers in a pamph1et entitled 'Drainage Area Data, Arkansas, White, and Red River Basins".

## ADMINISTRATION AND ACKNOWLEDGMENTS

In December 1960 the Sabine River Compact Administration requested the U. S. Geological Survey to update drainage-area determinations in the Sabine River Basin. The Administration made funds available to match the Geological Survey on a dollar for dollar basis. The work was done by the Surface Water District offices in Texas and Louisiana, and the pamphlet, "Drainage Area Data for Sabine River Basin, Texas and Louisiana" was released August 1961.

The compilation of drainage-area data for the balance of the State is a result of a cooperative agreement between the U. S. Geological Survey and the Texas Water Commission [formerly the Board of Water Engineers].

Computations were made in the District Office of the U. S. Geological Survey in Austin, Texas, under the general direction of Trigg Twichell, District Engineer of the Surface Water Branch.

The U. S. Corps of Engineers, Fort Worth District, and the U. S. Bureau of Reclamation, Austin Area Office, made field checks to verify delineation of noncontributing areas in the upper Colorado River Basin.

## TOPOGRAPHY

The topography of Texas generally reflects the surface geology of the State. The northwestern part of the State is occupied by the High Plains, with a general surface gradient dipping in a southeasterly direction. Elevations range above 4,000 feet along the Texas-New Mexico state 1 ine and above 2,500 feet along the east escarpment. From the High P1ains the land surface drops by successive steps,
generally in a southeasterly direction, to sea level along the coast of the Gulf of Mexico. The greatest abrupt change in elevation is along the High Plains Cap Rock Escarpment where in places the elevation of the land surface drops nearly 1,000 feet in just a few miles. In the El Paso-Trans-Pecos Region of west Texas, topographic features include the southern extension of the Rocky Mountain Range.

Figure 1 is a contour map of Texas which shows the four principal physiographic provinces: (1) the Gulf Coastal Plain, (2) the Central Lowland, (3) the Great Plains province, and (4) the Basin and Range province. These four principal physical divisions with the many subdivisions give the State a wide variety of surface aspects.

The drainage pattern of the State is unique, in that between the Rio Grande, which forms the southwestern border, and the Red River, which forms most of the northern border, lie nine large river basins which run approximately parallel courses from northwest to southeast. Of these, only two, the Brazos and Colorado Rivers, have their origin (small segment of total area) outside the State-- the remaining lie wholly within the State, with the Sabine River forming a part of the eastern border along its lower reaches. With the exception of the Red and Canadian Rivers, all of the streams in Texas flow directly into the Gulf of Mexico--the Canadian River is a tributary to the Arkansas River which, along with the Red River, flows into the Mississippi River and thence into the Gulf of Mexico. River basins and coastal areas of Texas are shown on Figure 2.

## CONCEPTS OF DRAINAGE AREAS

The drainage area of a stream at a specified location ordinarily may be defined as that area, measured in a horizontal plane, which is enclosed by a topographic divide such that direct surface runoff from precipitation normally would drain by gravity into the river basin above the specified point.

The concept of what constitutes noncontributing areas varies for individuals and for intended purpose of use. It is not susceptible to precise definitions because of judgment that must be used in determinations of what part of an area is totally noncontributing and what part contributes surface runoff only during extreme rainfall.

For this report a noncontributing area is defined as an area that contributes no direct surface runoff to a stream at any time. There may be runoff within the noncontributing area, but this runoff drains to natural surface depressions, playa lakes, and does not flow directly to the stream network that drains to the Gulf of Mexico.

The accuracy of delineating most of the noncontributing areas is considered to be a lower accuracy than that of the other work.

## METHOD OF DRAINAGE-AREA DETERMINATION

Discrepancies existing in drainage-area figures determined by various agencies result in confusion. To reduce confusion and promote uniformity, the Subcommittee on Hydrology, Federal Inter-Agency River Basin Committee, recommended the procedures which were used for this report and are briefly described below:

1. Selection of Maps: First preference is the national topographic series of quadrangle maps of the U. S. Geological Survey published on the scale of $1: 24,000$ or $1: 62,500$. Second preference is advance prints or manuscript prints of the
national series of quadrangle maps, and third preference is Army Map Service topgraphic maps, scale 1:250,000. About half of the State is mapped with largescale, modern topographic maps.
2. Establishment of Boundaries: The delineation of the boundary is the most important step in the process of drainage-area determinations and the biggest single factor affecting the accuracy of final results. Drainage boundaries were delineated with utmost care by personnel experienced in hydrology and cartography. Delineations were reviewed by the engineering staff of the Texas Water Commission, and for some basins by the engineering staffs of the Corps of Engineers and the Bureau of Reclamation.
3. Continuity Between Maps: An index map of the entire area was prepared to show the relative position of the different maps used. To assure accurate determinations, the maps were checked for gaps or overlaps between adjacent sheets, continuity of topographic or cultural detail between adjacent sheets, and agreement of latitude and longitude at borders of adjacent maps.
4. Planimetering: All areas and subareas within a quadrilateral were measured by planimeter. A quadrilateral encompasses the area bounded by latitude and longitude lines within a quadrangle. Actual areas within each quadrilateral have been computed accurately and are available from Smithsonian Geographical Tables, and from Bulletin 650 and other publications of the Geological Survey. Thus an exact check was provided between total planimetered area and actual area within each quadrilateral.

## TABULATION OF DATA

In this report the drainage areas determined in each major river basin are tabulated in separate sections devoted to that particular basin. Within each major basin, drainage areas were determined at sites of existing and discontinued continuous-record gaging stations and partial-record gaging stations, at sites of existing and authorized major dams, and at the mouths of principal tributaries.

Points at which drainage areas were determined are tabulated sequentially in the downstream direction along the main stem, with a point on a tributary that enters between two main-stem points tabulated between them. A similar order is followed for all tributaries. The tabulation includes the name of the stream at the point where the drainage area was determined; identification of the point, such as gaging station, dam or mouth; and the latitude and longitude of the point. As an added means of identification, the permanently assigned station number is shown for each gaging station and partial-record station. These numbers were assigned using the same criteria as above for downstream direction.

Drainage areas are given in square miles. Although areas are measured to the nearest hundreth of a square mile, the areas are rounded off in the listings to the nearest square mile for areas of more than 100 square miles, to tenths for areas from 10 to 100 square miles, and to hundreths for areas of less than 10 square miles.

## FUNCTION OF COORDINATING OFFICE

The U. S. Geological Survey at 807 Brazos Street, Austin, Texas, as coordinating agency, serves as a repository for work maps and computations and also serves as a clearing house for dissemination of drainage-area data.

Anyone cognizant of a significant discrepancy or contradiction between figures of drainage areas now in use should consult the Geological Survey and seek to reach an understanding and agreement between interested agencies represented in the area involved.

The Trinity River is formed in the northern part of the State by a number of small tributaries rising in Cooke, Montague, Clay, and Archer Counties. The main stream is formed in Dallas County by the union of the headwater tributaries. The river flows southeasterly into Trinity Bay and into the Gulf of Mexico through Galveston Bay. Elevation ranges from about 1,450 feet in the headwaters to sea level at the mouth.

The Trinity River Basin is in two geographic provinces, Central Texas and Gulf Coastal Plain. The headwaters are in two of the principal subdivisions of Central Texas--the Grand Prairie and Osage Plains regions.

More than 60 percent of the drainage areas of the basin were delineated on recent large-scale topographic maps, and this work is considered to be of permanent value. Drainage areas for the remainder of the basin were delineated on small-scale topographic maps and may be subject to minor revisions when new largescale maps become available. Drainage areas tabulated on the following pages were determined in April 1962.

The drainage area is 17,969 square miles at the mouth.
Drainage areas in the Trinity River Basin and the Trinity-San Jacinto Coastal Area are shown in Tables 3 and $3 a$ on the following pages. Drainage-area determinations have been published in Circulars of the Texas Water Commission for other areas as follows:

Sabine River Basin and Sabine-Neches Coastal Area, Tables 1 and la, Circular No. 62-02.
Neches River Basin and Neches-Trinity Coastal Area, Tables 2 and 2a, Circular No. 62-03.
San Jacinto River Basin and San Jacinto-Brazos Coastal Area, Tables 4 and 4a, Circular No. 62-05.

Table 3.--Trinity River Basin

| Name of stream | Point of determination of drainage area | ```Tota1 drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| North Creek | U.S.G.S. gage 8-427, North Creek near Jacksboro <br> 1at. $33^{\circ} 16^{\prime} 55^{\prime \prime}, 1$ ong. $98^{\circ} 17^{\circ} 55^{\prime \prime}$ | 21.6 |
| West Fork Trinity River | U.S.G.S. gage 8-428, West Fork Trinity River near Jacksboro 1at. $33^{\circ} 17^{\prime} 30^{\prime \prime}, 1$ ong. $98^{\circ} 04^{\circ} 40^{\prime \prime}$ | 683 |
| Lost Creek | Lake Jacksboro near Jacksboro 1at. $33^{\circ} 14^{\prime} 06^{\prime \prime}, 1$ ong. $98^{\circ} 08^{\prime} 27^{\prime \prime}$ | 25.6 |
| West Fork Trinity River | ```U.S.G.S. gage 8-430, Bridgeport Reservoir above Bridgeport 1at. }3\mp@subsup{3}{}{\circ}1\mp@subsup{3}{}{\prime}2\mp@subsup{2}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{7}{}{\circ}4\mp@subsup{9}{}{\prime}5\mp@subsup{4}{}{\prime\prime at left end of dam``` | 1,111 |
| West Fork Trinity River | ```U.S.G.S. discontinued gage 8-435, West Fork Trinity River at Bridgeport 1908-1924 1at. }3\mp@subsup{3}{}{\circ}1\mp@subsup{2}{}{\prime}1\mp@subsup{1}{}{\prime\prime},\mp@code{long. 97}4\mp@subsup{7}{}{\prime}3\mp@subsup{0}{}{\prime\prime 1924-1930 1at. }3\mp@subsup{3}{}{\circ}1\mp@subsup{2}{}{\prime}0\mp@subsup{5}{}{\prime\prime},1\mathrm{ long. }9\mp@subsup{7}{}{\circ}4\mp@subsup{5}{}{\circ}2\mp@subsup{1}{}{\prime\prime``` | 1,138 1,143 |
| Big Sandy Creek | Amon Carter Reservoir near Bowie 1at. $33^{\circ} 28^{\prime} 08^{\prime \prime}$, long. $97^{\circ} 51^{\prime} 58^{\prime \prime}$ | 99.8 |
| Big Sandy Creek | U.S.G.S. gage 8-440, Big Sandy Creek near Bridgeport <br> lat. $33^{\circ} 13^{\prime} 54^{\prime \prime}$, long. $97^{\circ} 41^{\prime} 40^{\prime \prime}$ | 333 |
| Big Sandy Creek | At mouth, 1at. $33^{\circ} 11^{\prime} 01^{\prime \prime}$, 1ong. $97^{\circ} 40^{\prime} 25^{\prime \prime}$ | 352 |
| West Fork Trinity River | Boyd dam site <br> 1at. $33^{\circ} 05^{\prime} 39^{\prime \prime}, 1$ ong. $97^{\circ} 35^{\prime} 05^{\prime \prime}$ | 1,703 |
| West Fork Trinity River | ```U.S.G.S. gage 8-445, West Fork Trinity River near Boyd 1947-1954 lat. }3\mp@subsup{3}{}{\circ}0\mp@subsup{4}{}{\prime}2\mp@subsup{8}{}{\prime\prime},\mathrm{ , long. }9\mp@subsup{7}{}{\circ}3\mp@subsup{2}{}{\prime}1\mp@subsup{8}{}{\prime\prime 1954- lat. }3\mp@subsup{3}{}{\circ}0\mp@subsup{5}{}{\prime}0\mp@subsup{8}{}{\prime\prime},1\mathrm{ long. }9\mp@subsup{7}{}{\circ}3\mp@subsup{3}{}{\prime}3\mp@subsup{0}{}{\prime\prime``` | 1,736 1,725 |
| West Fork Trinity River | U.S.G.S. gage 8-450, Eagle Mountain Reservoir above Fort Worth lat. $32^{\circ} 52^{\prime} 39^{\prime \prime}, 1$ ong. $97^{\circ} 28^{\prime} 29^{\prime \prime}$ at right end of main dam | 1,970 |
| West Fork Trinity River | U.S.G.S. discontinued gage 8-455, West Fork Trinity River at Lake Worth Dam above Fort Worth <br> 1at. $32^{\circ} 47^{\prime} 27^{\prime \prime}, 1$ ong. $97^{\circ} 24^{\prime} 54^{\prime \prime}$ | 2,064 |

Tab1e 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Clear Fork Trinity River | Lake Weatherford near Weatherford 1at. $32^{\circ} 46^{\prime} 16^{\prime \prime}$, 1ong. $97^{\circ} 40^{\prime} 32^{\prime \prime}$ | 109 |
| Clear Fork Trinity River | ```U.S.G.S. gage 8-460, C1ear Fork Trinity River near Aledo 1at. }3\mp@subsup{2}{}{\circ}3\mp@subsup{8}{}{\prime}2\mp@subsup{5}{}{\prime\prime},1ong. 9\mp@subsup{7}{}{\circ}3\mp@subsup{3}{}{\prime}5\mp@subsup{0}{}{\prime\prime``` | 251 |
| Clear Fork Trinity River | ```C of E gage 8-465, Benbrook Reservoir near Benbrook 1at. 32'39'02'', long. 97o}2\mp@subsup{6}{}{\prime}5\mp@subsup{4}{}{\prime\prime at intake structure``` | 429 |
| Clear Fork Trinity River | U.S.G.S. gage 8-470, C1ear Fork Trinity River near Benbrook 1at. $32^{\circ} 39^{\prime} 54^{\prime \prime}$, long. $97^{\circ} 26^{\circ} 30^{\prime \prime}$ | 431 |
| Clear Fork Trinity River | U.S.G.S. gage 8-475, Clear Fork Trinity River at Fort Worth lat. $32^{\circ} 44^{\prime} 02^{\prime \prime}$, long. $97^{\circ} 21^{\prime} 33^{\prime \prime}$ | 518 |
| West Fork Trinity River | ```U.S.G.S. gage 8-480, West Fork Trinity River at Fort Worth lat. }3\mp@subsup{2}{}{\circ}4\mp@subsup{5}{}{\prime}40', 1ong. 97 ' 19'55''``` | 2,615 |
| Marine Creek | Marine Creek Reservoir at Fort Worth 1at. $32^{\circ} 49^{\prime} 26^{\prime \prime}$, 1ong. $97^{\circ} 23^{\prime} 32^{\prime \prime}$ | 9.29 |
| Marine Creek | ```U.S.G.S. discontinued gage 8-485, Marine Creek at Fort Worth 1at. }3\mp@subsup{2}{}{\circ}4\mp@subsup{8}{}{\prime}1\mp@subsup{6}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{7}{}{\circ}2\mp@subsup{1}{}{\prime}4\mp@subsup{8}{}{\prime\prime``` | 17.4 |
| Big Fossil Creek | ```Dam site 1at. }3\mp@subsup{2}{}{\circ}5\mp@subsup{0}{}{\prime}3\mp@subsup{9}{}{\prime\prime},1\mathrm{ long. }9\mp@subsup{7}{}{\circ}1\mp@subsup{6}{}{\circ}1\mp@subsup{3}{}{\prime\prime``` | 42.2 |
| Big Fossil Creek | ```U.S.G.S. gage 8-488, Big Fossil Creek at Haltom City lat. }3\mp@subsup{2}{}{\circ}4\mp@subsup{8}{}{\prime}2\mp@subsup{6}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{7}{}{\circ}1\mp@subsup{4}{}{\prime}5\mp@subsup{4}{}{\prime\prime``` | 52.8 |
| Big Fossil Creek | At mouth, 1at. $32^{\circ} 46^{\circ} 48^{\prime \prime}, 10 \mathrm{l}$, $97^{\circ} 13^{\prime} 54^{\prime \prime}$ | 74.7 |
| Village Creek | ```U.S.G.S. discontinued gage 8-490, Vi11age Creek near Handley 1at. }3\mp@subsup{2}{}{\circ}4\mp@subsup{1}{}{\prime}3\mp@subsup{8}{}{\prime\prime},1\mathrm{ long. }9\mp@subsup{7}{}{\circ}1\mp@subsup{3}{}{\prime}1\mp@subsup{2}{}{\prime\prime``` | 130 |
| Village Creek | ```U.S.G.S. gage 8-492, Lake Arlington at Arlington, in pumphouse near right end of dam 1at. }3\mp@subsup{2}{}{\circ}4\mp@subsup{3}{}{\prime}0\mp@subsup{4}{}{\prime\prime},1\mathrm{ long. }9\mp@subsup{7}{}{\circ}1\mp@subsup{1}{}{\prime}3\mp@subsup{6}{}{\prime\prime``` | 143 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of <br> drainage area | Total <br> drainage <br> area |
| :--- | :--- | :---: |
| (sq. mi.) |  |  |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Gibson Branch | Subwatershed No. 3 near Muenster lat. $33^{\circ} 39^{\prime} 12^{\prime \prime}$, long. $97^{\circ} 26^{\prime} 47^{\prime \prime}$ | 3.84 |
| Long Branch | Subwatershed No. 4 near Muenster lat. $33^{\circ} 37^{\prime} 38^{\prime \prime}$, long. $97^{\circ} 25^{\prime} 19^{\prime \prime}$ | 1.88 |
| Tributary to E1m Fork Trinity River | U.S.G.S. gage 8-502, E1m Fork Trinity River, Subwatershed No. 6-0 near Muenster lat. $33^{\circ} 37^{\prime} 13^{\prime \prime}$, long. $97^{\circ} 24^{\prime} 15^{\prime \prime}$ | 0.77 |
| Tributary to E1m Fork Trinity River | Subwatershed No. $6-\mathrm{N}$ near Muenster lat. $33^{\circ} 37^{\prime} 00^{\prime \prime}$, long. $97^{\circ} 23^{\prime} 39^{\prime \prime}$ | 0.74 |
| Tributary to E1m Fork Trinity River | Subwatershed No. 6-H near Muenster lat. $33^{\circ} 36^{\prime} 18^{\prime \prime}$, long. $97^{\circ} 23^{\prime} 44^{\prime \prime}$ | 1.12 |
| Tributary to E1m Fork Trinity River | Subwatershed No. 6-M near Muenster lat. $33^{\circ} 36^{\prime} 55^{\prime \prime}$, long. $97^{\circ} 23^{\prime} 02^{\prime \prime}$ | 0.78 |
| Elm Fork Trinity River | U.S.G.S. gage 8-503, E1m Fork Trinity <br> River near Muenster <br> lat. $33^{\circ} 36^{\prime} 37^{\prime \prime}$, long. $97^{\circ} 22^{\prime} 58^{\prime \prime}$ | 46.0 |
| Elm Fork Trinity River | U.S.G.S. gage 8-505, Elm Fork Trinity <br> River near Sanger <br> lat. $33^{\circ} 23^{\prime} 11^{\prime \prime}$, long. $97^{\circ} 05^{\prime} 05^{\prime \prime}$ | 381 |
| Is le du Bois Creek | ```U.S.G.S. gage 8-510, Isle du Bois Creek near Pilot Point 1949-1958 lat. }3\mp@subsup{3}{}{\circ}2\mp@subsup{4}{}{\prime}5\mp@subsup{3}{}{\prime\prime}, long. 97 00'00'' 1958- lat. }3\mp@subsup{3}{}{\circ}2\mp@subsup{4}{}{\prime}2\mp@subsup{3}{}{\prime\prime}, long. 97 000'45'``` | 265 266 |
| E1m Fork Trinity River | Aubrey dam site <br> lat. $33^{\circ} 21^{\prime} 26^{\prime \prime}$, long. $97^{\circ} 02^{\prime} 11^{\prime \prime}$ | 692 |
| Clear Creek | U.S.G.S. gage 8-515, Clear Creek near Sanger, lat. $33^{\circ} 20^{\prime} 10^{\prime \prime}$, long. $97^{\circ} 10^{\prime} 45^{\prime \prime}$ | 295 |
| Elm Fork Trinity River | U.S.G.S. discontinued gage 8-520, E1m Fork Trinity River near Denton lat. $33^{\circ} 15^{\prime} 02^{\prime \prime}$, long. $97^{\circ} 02^{\prime} 42^{\prime \prime}$ | 1,084 |
| E1m Fork Trinity River | U.S.G.S. discontinued gage 8-525, Lake Dallas near Dallas lat. $33^{\circ} 07^{\prime} 00^{\prime \prime}$, long。 $96^{\circ} 59^{\prime} 28^{\prime \prime}$ | 1,168 |
| Little E1m Creek | U.S.G.S. gage 8-527, Little Elm Greek near Aubrey, lat. $33^{\circ} 17^{\prime} 00^{\prime \prime}$, 1ong。 $96^{\circ} 53^{\prime} 33^{\prime \prime}$ | 75.5 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Elm Fork Trinity River | C of E gage 8-528, Garza-Little Elm Reservoir near Lewisville lat. $33^{\circ} 04^{\prime} 09^{\prime \prime}$, long. $96^{\circ} 57^{\prime} 51^{\prime \prime}$ | 1,660 |
| Elm Fork Trinity River | U.S.G.S. gage 8-530, Elm Fork Trinity River near Lewisville lat. $33^{\circ} 02^{\prime} 45^{\prime \prime}$, long. $96^{\circ} 57^{\prime} 40^{\prime \prime}$ | 1,673 |
| Denton Creek | U.S.G.S. gage 8-535, Denton Creek near Justin, 1at. $33^{\circ} 07^{\prime} 08^{\prime \prime}$, long. $97^{\circ} 17^{\prime} 25^{\prime \prime}$ | 400 |
| Denton Creek | Dam site, lat. $33^{\circ} 01^{\prime} 47^{\prime \prime}$, long. $97^{\circ} 13^{\prime} 48^{\prime \prime}$ | 600 |
| Denton Creek | U.S.G.S. discontinued gage 8-540, Denton Creek near Roanoke lat. $33^{\circ} 02^{\prime} 23^{\prime \prime}$, long. $97^{\circ} 12^{\prime} 14^{\prime \prime}$ | 616 |
| Denton Creek | ```C of E gage 8-545, Grapevine Reservoir near Grapevine lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{8}{}{\prime}2\mp@subsup{1}{}{\prime\prime}, long. 9703'22"``` | 695 |
| Denton Creek | U.S.G.S. gage 8-550, Denton Creek near Grapevine lat. $32^{\circ} 59^{\prime} 13^{\prime \prime}$, long. $97^{\circ} 00^{\prime} 45^{\prime \prime}$ | 705 |
| E1m Fork Trinity River | ```U.S.G.S. gage 8-555, E1m Fork Trinity River near Carrollton 1923-1938 and 1955- lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{7}{}{\prime}57\prime\prime\prime\prime, long. 96 56'40'' 1938-1939 lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{2}{}{\prime}08', long. 96 5 55'25'' 1939-1955 lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{2}{}{\prime}2\mp@subsup{5}{}{\prime\prime},\mp@code{long. }9\mp@subsup{6}{}{\circ}5\mp@subsup{5}{}{\prime}5\mp@subsup{1}{}{\prime\prime``` | $\begin{aligned} & 2,459 \\ & 2,537 \\ & 2,536 \end{aligned}$ |
| Elm Fork Trinity River | U.S.G.S. discontinued gage 8-560, Elm Fork Trinity River near Dallas lat. $32^{\circ} 49^{\prime} 02^{\prime \prime}$, long. $96^{\circ} 51^{\prime} 23^{\prime \prime}$ | 2,576 |
| Elm Fork Trinity River | At confluence with West Fork Trinity River, lat. $32^{\circ} 47^{\circ} 53^{\prime \prime}$, long. $96^{\circ} 53^{\prime} 54^{\prime \prime}$ | 2,577 |
| Turtle Creek | U.S.G.S. gage 8-565, Turtle Creek at Da1las, lat. $32^{\circ} 48^{\prime} 26^{\prime \prime}$, 1ong。 $96^{\circ} 48^{\prime} 08^{\prime \prime}$ | 7.98 |
| Trinity River | U.S.G.S. gage 8-570, Trinity River at Dallas, lat. $32^{\circ} 46^{\prime} 30^{\prime \prime}$, 1ong. $96^{\circ} 49^{\prime} 10^{\prime \prime}$ | 6,106 |
| White Rock Creek | At Frankford Road lat. $32^{\circ} 59^{\prime} 53^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 48^{\prime \prime}$ | 25.5 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Tota1 drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| White Rock Creek | At Dallas-Collin County line lat. $32^{\circ} 59^{\prime} 13^{\prime \prime}$, 1ong. $96^{\circ} 48^{\prime} 47^{\prime \prime}$ | 26.6 |
| Hall Branch | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 32^{\circ} 58^{\prime} 53^{\prime \prime}, \text { long. } 96^{\circ} 48^{\prime} 42^{\prime \prime} \end{aligned}$ | 2.20 |
| White Rock Creek | U.S.G.S. gage 8-571, White Rock Creek at Keller Springs Road at Dallas lat. $32^{\circ} 58^{\prime} 13^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 19^{\prime \prime}$ | 29.4 |
| White Rock Creek | At St. Louis-Southwestern Railroad Crossing lat. $32^{\circ} 57^{\prime} 56^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 38^{\prime \prime}$ | 30.5 |
| Spanky Branch | $\begin{aligned} & \text { U.S.G.S. gage 8-571.2, Spanky Branch } \\ & \text { at Da11as } \\ & \text { lat. } 32^{\circ} 57^{\prime} 58^{\prime \prime} \text {, long. } 96^{\circ} 48^{\circ} 11^{\prime \prime} \end{aligned}$ | 6.77 |
| Spanky Branch | At mouth lat. $32^{\circ} 57^{\prime} 36^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 36^{\prime \prime}$ | 7.00 |
| White Rock Creek | At Belt Line Road lat. $32^{\circ} 57^{\prime} 14^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 28^{\prime \prime}$ | 38.7 |
| White Rock Creek | At Preston Road lat. $32^{\circ} 56^{\prime} 45^{\prime \prime}$, long. $96^{\circ} 48^{\prime} 12^{\prime \prime}$ | 40.2 |
| Rush Branch | At mouth <br> lat. $32^{\circ} 56^{\prime} 40^{\prime \prime}$, long. $96^{\circ} 47^{\circ} 51^{\prime \prime}$ | 2.61 |
| Walton Branch | ```At mouth lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{6}{}{\prime}2\mp@subsup{3}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{6}{}{\circ}4\mp@subsup{7}{}{\prime}4\mp@subsup{3}{}{\prime\prime``` | 1.42 |
| White Rock Creek | Below mouth of Walton Branch <br> lat. $32^{\circ} 56^{\prime} 23^{\prime \prime}$, long. $96^{\circ} 47^{\prime} 43^{\prime \prime}$ | 44.6 |
| Laney Branch | ```At mouth lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{6}{}{\prime}0\mp@subsup{7}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{6}{}{\circ}4\mp@subsup{7}{}{\prime}1\mp@subsup{1}{}{\prime\prime``` | 0.44 |
| White Rock Creek | At Alpha Road lat. $32^{\circ} 55^{\prime} 59^{\prime \prime}$, long. $96^{\circ} 47^{\prime} 15^{\prime \prime}$ | 45.8 |
| White Rock Creek | At Valley View Road 1at. $32^{\circ} 55^{\prime} 35^{\prime \prime}$, long。 $96^{\circ} 47^{\prime} 04^{\prime \prime}$ | 47.2 |
| Orr Branch | ```At mouth 1at. \(32^{\circ} 54^{\prime} 42^{\prime \prime}\), 1ong. \(96^{\circ} 46^{\prime} 35^{\prime \prime}\)``` | 2.01 |
| White Rock Creek | At Forest Lane <br> lat. $32^{\circ} 54^{\prime} 35^{\prime \prime}$, long. $96^{\circ} 46^{\prime} 29^{\prime \prime}$ | 50.6 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Tributary to White Rock Creek | ```At mouth lat. 3254'22'', long. 9646'13'``` | 0.18 |
| Cottonwood Creek | ```U.S.G.S. gage 8-571.4, Cottonwood Creek at Forest Lane at Dallas lat. 32}\mp@subsup{}{}{\circ}5\mp@subsup{4}{}{\prime}3\mp@subsup{3}{}{\prime\prime}, long. 9645'54''``` | 8.50 |
| Floyd Branch | ```U.S.G.S. gage 8-571.6, Floyd Branch at Forest Lane at Da1las lat. }3\mp@subsup{2}{}{\circ}5\mp@subsup{4}{}{\prime}3\mp@subsup{3}{}{\prime\prime}, long. 96*45'34''``` | 4.17 |
| Floyd Branch | $\begin{aligned} & \text { At mouth } \\ & \quad \text { lat. } 32^{\circ} 54^{\prime} 26^{\prime \prime}, \text { long. } 96^{\circ} 45^{\prime} 49^{\prime \prime} \end{aligned}$ | 4.22 |
| Cottonwood Creek | ```At mouth lat. 32}\mp@subsup{}{}{\circ}5\mp@subsup{4}{}{\prime}06\mp@subsup{6}{}{\prime\prime}, long. 96*45'56''``` | 12.8 |
| White Rock Creek | At Texas and New Orleans Railroad Bridge lat. $32^{\circ} 54^{\prime} 04^{\prime \prime}$, long. $96^{\circ} 45^{\prime} 54^{\prime \prime}$ | 64.1 |
| Gifford Branch | ```At mouth ``` | 1.29 |
| White Rock Creek | U.S.G.S. gage 8-572, White Rock Creek at Greenville Ave. at Dallas <br> lat. $32^{\circ} 53^{\prime} 21^{\prime \prime}$, long. $96^{\circ} 45^{\prime} 23^{\prime \prime}$ | 66.4 |
| White Rock Creek | At Fair Oaks Ave. <br> lat. $32^{\circ} 52^{\prime} 50^{\prime \prime}$, long. $96^{\circ} 44^{\prime} 54^{\prime \prime}$ | 70.0 |
| White Rock Creek | At Skillman Ave. lat. $32^{\circ} 52^{\prime} 03^{\prime \prime}$, long. $96^{\circ} 44^{\prime} 20^{\prime \prime}$ | 73.1 |
| White Rock Creek | At Northwest Highway (Loop 12) lat. $32^{\circ} 51^{\prime} 30^{\prime \prime}$, long. $96^{\circ} 43^{\prime} 29^{\prime \prime}$ | 83.0 |
| White Rock Creek | U.S.G.S. gage 8-573, White Rock Creek at White Rock Lake at Dallas lat. $32^{\circ} 48^{\prime} 54^{\prime \prime}$, long. $96^{\circ} 43^{\prime} 28^{\prime \prime}$ | 100 |
| Ash Creek | U.S.G.S. gage 8-573.2, Ash Creek at Highland Road at Dallas lat. $32^{\circ} 48^{\prime} 18^{\prime \prime}$, long. $96^{\circ} 43^{\prime} 04^{\prime \prime}$ | 6.92 |
| Forney Creek | U.S.G.S. gage 8-573.4, Forney Creek at Lawnview Ave. at Dallas lat. $32^{\circ} 46^{\prime} 45^{\prime \prime}$, long. $96^{\circ} 43^{\prime} 02^{\prime \prime}$ | 1.84 |
| White Rock Creek | ```At mouth lat. }3\mp@subsup{2}{}{\circ}4\mp@subsup{3}{}{\prime}2\mp@subsup{5}{}{\prime\prime}, long. 96*44'02'\prime``` | 136 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of <br> drainage area | Total <br> drainage <br> area |
| :---: | :---: | :---: |
| (sq. mi.) |  |  |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | Total drainage area (sq. mi.) |
| :---: | :---: | :---: |
| Sister Grove Creek | U.S.G.S. gage 8-595, Sister Grove Crieek near Princeton <br> lat. $33^{\circ} 11^{\prime} 35^{\prime \prime}$, 1.ong. $96^{\circ} 28^{\prime} 32^{\prime \prime}$ | 113 |
| East Fork Trinity River | U.S.G.S. discontinued gage 8-600, East Fork Trinity River above Pilot Grove Creek near Lavon lat. $33^{\circ} 01^{\prime} 23^{\prime \prime}$, long. $96^{\circ} 28^{\prime} 32^{\prime \prime}$ (Note.--Same location as.station 8-610) | 328 |
| Indian Creek | $\begin{aligned} & \text { At mouth } \\ & \quad \text { lat. } 33^{\circ} 12^{\prime} 55^{\prime \prime}, \text { long. } 96^{\circ} 24^{\circ} 07^{\prime \prime} \end{aligned}$ | 120 |
| Pilot Grove Greek | Below mouth of Indian Creek <br> lat. $33^{\circ} 12^{\prime} 55^{\prime \prime}$, long. $96^{\circ} 24^{\prime} 07^{\prime \prime}$ | 205 |
| East Fork Trinity River | $C$ of $E$ gage 8-605, Lavon Reservoir near Lavon, lat. $33^{\circ} 01^{\prime} 55^{\prime \prime}$, long. $96^{\circ} 28^{\prime} 41^{\prime \prime}$ | 770 |
| East Fork Trinity River | U.S.G.S. gage 8-610, East Fork Trinity <br> River near Lavon <br> lat. $33^{\circ} 01^{\prime} 23^{\prime \prime}$, long. $96^{\circ} 28^{\prime} 32^{\prime \prime}$ | 773 |
| East Fork Trinity River | U.S.G.S. discontinued gage 8-615, East Fork Trinity River near Rockwall lat. $32^{\circ} 55^{\prime} 28^{\prime \prime}$, long. $96^{\circ} 30^{\prime} 06^{\prime \prime}$ | 839 |
| East Fork Trinity River | Forney dam site <br> lat. $32^{\circ} 48^{\prime} 08^{\prime \prime}$, long. $96^{\circ} 30^{\prime} 30^{\prime \prime}$ | 1,071 |
| Duck Creek | U.S.G.S. gage 8-617, Duck Creek near Garland lat. $32^{\circ} 50^{\prime} 00^{\prime \prime}, 1$ ong. $96^{\circ} 35^{\prime} 45^{\prime \prime}$ | 31.6 |
| East Fork Trinity River | U.S.G.S. gage 8-620, East Fork Trinity River near Crandall lat. $32^{\circ} 38^{\prime} 20^{\prime \prime}$, 1ong. $96^{\circ} 29^{\prime} 15^{\prime \prime}$ | 1,256 |
| East Fork Trinity River | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 32^{\circ} 29^{\prime} 55^{\prime \prime}, \text { long. } 96^{\circ} 30^{\prime} 05^{\prime \prime} \end{aligned}$ | 1,314 |
| Trinity River | U.S.G.S. gage 8-625, Trinity River near Rosser lat. $32^{\circ} 25^{\prime} 35^{\prime \prime}$, long. $96^{\circ} 27^{\prime} 45^{\prime \prime}$ | 8,146 |
| Trinity River | At State Highway 31 <br> lat. $32^{\circ} 08^{\prime} 52^{\prime \prime}$, 1ong. $96^{\circ} 06^{\circ} 08^{\prime \prime}$ | 8,537 |
| Big Brushy Creek | $\begin{array}{\|l} \text { At mouth } \\ \text { lat. } 32^{\circ} 33^{\prime} 30^{\prime \prime}, \text { long. } 96^{\circ} 20^{\prime} 20^{\prime \prime} \end{array}$ | 107 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | Total drainage area (sq. mi.) |
| :---: | :---: | :---: |
| Kings Creek | At mouth lat. $32^{\circ} 23^{\prime} 00^{\prime \prime}$, long. $96^{\circ} 11^{\prime} 19^{\prime \prime}$ | 330 |
| Cedar Creek | U.S.G.S. gage 8-630, Cedar Creek near Mabank lat. $32^{\circ} 19^{\prime} 45^{\prime \prime}$, long. $96^{\circ} 10^{\prime} 05^{\prime \prime}$ | 733 |
| Cedar Creek | Cedar Creek Reservoir near Trinidad lat. $32^{\circ} 10^{\prime} 48^{\prime \prime}$, long. $96^{\circ} 04^{\prime} 16^{\prime \prime}$ | 1,007 |
| Cedar Creek | ```At mouth lat. }3\mp@subsup{2}{}{\circ}0\mp@subsup{4}{}{\prime}5\mp@subsup{4}{}{\prime\prime},1/1ong. 96 005'03''``` | 1,090 |
| Bynum Creek | At mouth lat. $31^{\circ} 55^{\prime} 21^{\prime \prime}$, long. $96^{\circ} 49^{\circ} 25^{\prime \prime}$ | 31.4 |
| White Rock Creek | At mouth lat. $31^{\circ} 55^{\prime} 50^{\prime \prime}$, long. $96^{\circ} 47^{\prime} 47^{\prime \prime}$ | 76.3 |
| Ash Creek | At mouth lat. $31^{\circ} 56^{\circ} 33^{\prime \prime}$, long. $96^{\circ} 45^{\prime} 59^{\prime \prime}$ | 212 |
| Richland Creek | Navarro Mills Reservoir near Corsicana lat. $31^{\circ} 57^{\prime} 07$ ', long. $96^{\circ} 41^{\prime} 55^{\prime \prime}$ | 320 |
| Richland Creek | U.S.G.S. gage 8-631, Richland Creek near Daws on lat. $31^{\circ} 56^{\prime} 18^{\prime \prime}$, long. $96^{\circ} 40^{\prime} 52^{\prime \prime}$ | 333 |
| Pin Oak Creek | U.S.G.S. gage 8-632, Pin Oak Creek near Hubbard <br> lat. $31^{\circ} 48^{\prime} 05^{\prime \prime}$, long. $96^{\circ} 43^{\prime} 10^{\prime \prime}$ | 17.6 |
| Richland Creek | U.S.G.S. gage 8-635, Richland Creek near Richland lat. $31^{\circ} 56^{\prime} 55^{\prime \prime}$, long. $96^{\circ} 25^{\prime} 15^{\prime \prime}$ | 734 |
| Chambers Creek | Italy dam site <br> lat. $32^{\circ} 13^{\prime} 35^{\prime \prime}$, long. $96^{\circ} 52^{\prime} 40^{\prime \prime}$ | 361 |
| South Prong Waxahachie Creek | Lake Waxahachie near Waxahachie lat. $32^{\circ} 20^{\prime} 30^{\prime \prime}$, 1ong. $96^{\circ} 48^{\prime} 20^{\prime \prime}$ | 30.5 |
| Waxahachie Creek | ```Bardwell dam site 1at. }3\mp@subsup{2}{}{\circ}1\mp@subsup{5}{}{\prime}3\mp@subsup{0}{}{\prime\prime}\mathrm{ , long. }9\mp@subsup{6}{}{\circ}3\mp@subsup{8}{}{\prime}4\mp@subsup{0}{}{\prime\prime``` | 176 |
| Chambers Creek | U.S.G.S. discontinued gage 8-640, Chambers Creek near Emhouse 1at. $32^{\circ} 13^{\prime} 10^{\prime \prime}$, long. $96^{\circ} 35^{\prime} 55^{\prime \prime}$ | 803 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of <br> drainage area | Total <br> drainage <br> area |
| :--- | :--- | :---: |
| Chambers Creek |  |  |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Lower Keechi Creek | $\begin{aligned} & \text { Dam site } \\ & \text { lat. } 31^{\circ} 09^{\prime} 55^{\prime \prime}, \text { long. } 95^{\circ} 48^{\prime} 20^{\prime \prime} \end{aligned}$ | 158 |
| Trinity River | U.S.G.S. gage 8-655, Trinity River near Midway lat. $31^{\circ} 04^{\prime} 40^{\prime \prime}$, 1ong. $95^{\circ} 42^{\prime} 00^{\prime \prime}$ | 14,450 |
| Bedias Creek | $\begin{aligned} & \text { Dam site } \\ & \quad \text { lat. } 30^{\circ} 52^{\prime} 50^{\prime \prime} \text {, long. } 95^{\circ} 47^{\prime} 10^{\prime \prime} \end{aligned}$ | 309 |
| Larrisons Creek | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 30^{\circ} 54^{\prime} 35^{\prime \prime}, \text { long. } 95^{\circ} 42^{\prime} 45^{\prime \prime} \end{aligned}$ | 67.9 |
| South Bedias Creek | $\left\lvert\, \begin{aligned} & \text { At mouth } \\ & \text { lat. } 30^{\circ} 54^{\prime} 05^{\prime \prime}, ~ 1 o n g . ~ \\ & \hline 5^{\circ} 41^{\prime} 30^{\prime \prime} \end{aligned}\right.$ | 133 |
| Bedias Creek | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 30^{\circ} 55^{\prime} 50^{\prime \prime}, \text { long. } 95^{\circ} 36^{\prime} 55^{\prime \prime} \end{aligned}$ | 565 |
| Trinity River | Below mouth of Bedias Creek <br> lat. $30^{\circ} 55^{\prime} 50^{\prime \prime}$, long. $95^{\circ} 36^{\prime} 55^{\prime \prime}$ | 15,226 |
| Ne1sons Creek | $\begin{aligned} & \text { Dam site } \\ & \text { lat. } 30^{\circ} 51^{\prime} 15^{\prime \prime}, \text { long. } 95^{\circ} 32^{\prime} 30^{\prime \prime} \end{aligned}$ | 68.4 |
| Harmons Creek | ```Dam site ``` | 91.6 |
| Trinity River | U.S.G.S. gage 8-660, Trinity River at Riverside lat. $30^{\circ} 51^{\prime} 35^{\prime \prime}$, long. $95^{\circ} 23^{\prime} 54^{\prime \prime}$ | 15,589 |
| White Rock Creek | Mustang dam site <br> lat. $31^{\circ} 10^{\prime} 45^{\prime \prime}$, long. $95^{\circ} 20^{\prime} 10^{\prime \prime}$ | 73.6 |
| Gai1 Creek | ```Dam site lat. }3\mp@subsup{1}{}{\circ}0\mp@subsup{9}{}{\prime}3\mp@subsup{5}{}{\prime\prime}, long. 95*`24'30''``` | 62.8 |
| Caney Creek | ```Dam site lat. }3\mp@subsup{0}{}{\circ}5\mp@subsup{8}{}{\prime}06'\prime\prime, long. 95 '12'55'``` | 66.0 |
| White Rock Creek | At mouth lat. $30^{\circ} 54^{\prime} 19^{\prime \prime}$, long. $95^{\circ} 15^{\prime} 55^{\prime \prime}$ | 510 |
| Kickapoo Creek | At mouth lat. $30^{\circ} 47^{\prime} 00^{\prime \prime}$, long. $95^{\circ} 07^{\circ} 52^{\prime \prime}$ | 148 |
| Trinity River | Livingston dam site <br> lat. $30^{\circ} 38^{\prime} 02^{\prime \prime}$, long. $95^{\circ} 00^{\prime} 56^{\prime \prime}$ | 16,583 |

Table 3.--Trinity River Basin--Continued

| Name of stream | Point of determination of drainage area | Total drainage area (sq. mi.) |
| :---: | :---: | :---: |
| Long King Creek | ```Dam site lat. }3\mp@subsup{0}{}{\circ}4\mp@subsup{5}{}{\prime}17'\prime\prime, long. 94'56'05''``` | 130 |
| Long King Creek | ```At mouth lat. }3\mp@subsup{0}{}{\circ}3\mp@subsup{4}{}{\prime}19'\prime\prime\prime, long. 94*57'18''``` | 225 |
| Menard Creek | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 30^{\circ} 29^{\prime} 15^{\prime \prime} \text {, long. } 94^{\circ} 50^{\prime} 28^{\prime \prime} \end{aligned}$ | 167 |
| Big Creek | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 30^{\circ} 27^{\prime} 33^{\prime \prime}, \text { long. } 94^{\circ} 52^{\prime} 28^{\prime \prime} \end{aligned}$ | 93.2 |
| Trinity River | U.S.G.S. gage 8-665, Trinity River at Romayor lat. $30^{\circ} 25^{\prime} 30^{\prime \prime}$, long. $94^{\circ} 51^{\prime} 02^{\prime \prime}$ | 17,186 |
| Trinity River | Capers Ridge dam site lat. $30^{\circ} 12^{\prime} 58^{\prime \prime}$, long. $94^{\circ} 49^{\prime} 22^{\prime \prime}$ | 17,374 |
| Trinity River | U.S.G.S. gage 8-670, Trinity River at Liberty <br> lat. $30^{\circ} 03^{\prime} 27^{\prime \prime}$, long. $94^{\circ} 49^{\circ} 05^{\prime \prime}$ | 17,468 |
| Whites Bayou | ```At mouth lat. 29}\mp@subsup{}{}{\circ}5\mp@subsup{0}{}{\prime}1\mp@subsup{5}{}{\prime\prime},\mathrm{ long. }9\mp@subsup{4}{}{\circ}3\mp@subsup{9}{}{\prime}1\mp@subsup{8}{}{\prime\prime``` | 103 |
| Turtle Bayou | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 29^{\circ} 49^{\prime} 25^{\prime \prime}, \text { long. } 94^{\circ} 40^{\prime} 27^{\prime \prime} \end{aligned}$ | 180 |
| Turtle Bay | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 29^{\circ} 49^{\prime} 29^{\prime \prime}, \text { long. } 94^{\circ} 44^{\prime} 23^{\prime \prime} \end{aligned}$ | 199 |
| Trinity River | At mouth <br> (The Trinity River discharges into Trinity Bay at the main channel outlet lat. $29^{\circ} 46^{\prime} 20^{\prime \prime}$, long. $94^{\circ} 41^{\prime} 18^{\prime \prime}$, at the mouth of Red Bayou <br> lat. $29^{\circ} 45^{\prime} 54^{\prime \prime}$, long. $94^{\circ} 47^{\prime} 46^{\prime \prime}$, and at intervening bayous and passes between the mouth of the main channel and the mouth of Red Bayou.) | 17,969 |

Table 3a.--Trinity-San Jacinto Coastal Area

| Name of stream | Point of determination of drainage area | ```Total drainage area (sq. mi.)``` |
| :---: | :---: | :---: |
| Coastal area | Intervening coastal area from mouth of Trinity River to mouth of Cedar Bayou | 12.9 |
| Cedar Bayou | $\begin{aligned} & \text { At mouth } \\ & \text { lat. } 29^{\circ} 40^{\prime} 29^{\prime \prime}, \text { long. } 94^{\circ} 55^{\prime} 56^{\prime \prime} \end{aligned}$ | 204 |
| Coastal area | Intervening coastal area from mouth of Cedar Bayou to mouth of San Jacinto River | 30.0 |
| Coastal area | Total intervening coastal area from mouth of Trinity River to mouth of San Jacinto River | 247 |

