

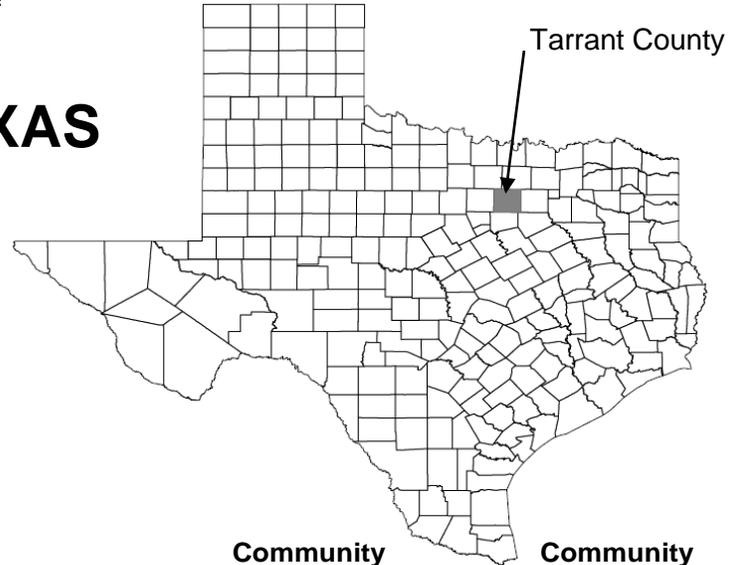
# FLOOD INSURANCE STUDY



## Notice

This preliminary FIS report includes only revised Flood Profiles and Floodway Data tables. See "Notice to Flood Insurance Users" page for additional details.

## TARRANT COUNTY, TEXAS AND INCORPORATED AREAS VOLUME 2 OF 9



Community Name	Community Number
TARRANT COUNTY UNINCORPORATED AREAS	480582
ARLINGTON, CITY OF	485454
AZLE, CITY OF	480584
BEDFORD, CITY OF	480585
BENBROOK CITY OF	480586
BLUE MOUND, CITY OF	480587
BURLESON, CITY OF	485459
COLLEYVILLE, CITY OF	480590
CROWLEY, CITY OF	480591
DALWORTHINGTON GARDENS, CITY OF	481013
EDGECLIFF VILLAGE, TOWN OF	480592
EULESS, CITY OF	480593
EVERMAN, CITY OF	480594
FLOWER MOUND, TOWN OF	480777
FOREST HILL, CITY OF	480595
FORT WORTH, CITY OF	480596
GRAND PRAIRIE, CITY OF	485472
GRAPEVINE, CITY OF	480598
HALTOM CITY, CITY OF	480599
HASLET, CITY OF	480600
HURST, CITY OF	480601
KELLER, CITY OF	480602
KENNEDALE, CITY OF	480603
LAKE WORTH, CITY OF	480605
LAKESIDE, CITY OF	480604
MANSFIELD, CITY OF	480606

Community Name	Community Number
NORTH RICHLAND HILLS, CITY OF	480607
PANTEGO, TOWN OF	481116
PELICAN BAY, CITY OF	481653
RENO, TOWN OF	480969
RICHLAND HILLS, CITY OF	480608
RIVER OAKS, CITY OF	480609
ROANOKE, CITY OF	480785
SAGINAW, CITY OF	480610
SANSOM PARK, CITY OF	480611
SOUTHLAKE, CITY OF	480612
TROPHY CLUB, TOWN OF	481606
WATAUGA, CITY OF	480613
WESTLAKE, TOWN OF	480614
WESTOVER HILLS, TOWN OF	480615
WESTWORTH VILLAGE, CITY OF	480616
WHITE SETTLEMENT, CITY OF	480617

**REVISED PRELIMINARY**

**October 30, 2015**

REVISED: \_\_\_\_\_



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER  
48439CV002B

**NOTICE TO  
FLOOD INSURANCE STUDY USERS**

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Part or all of this Flood Insurance Study may be revised and republished at any time. In addition, part of this Flood Insurance Study may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the Flood Insurance Study. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current Flood Insurance Study components.

First Countywide FIS Effective Date: January 6, 1993

First Revised Countywide FIS Revision Date: August 2, 1995

Second Revised Countywide FIS Revision Date: August 23, 2000

Third Revised Countywide FIS Revision Date: Map revised September 25, 2009 to update corporate limits, to change Base Flood Elevations, to change Special Flood Hazards Areas, to change zone descriptions, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to reflect updated topographic information.

Fourth Revised Countywide FIS Revision Date: \_\_\_\_\_

**This preliminary revised Flood Insurance Study contains only Floodway Data tables or Flood Profiles added or revised as part of the revision. All other Floodway Data tables and Flood Profiles will appear in the final FIS report.**

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Exhibit 2 – Flood Insurance Rate Map Index  
Flood Insurance Rate Map

## 4.0 **FLOODPLAIN MANAGEMENT APPLICATIONS**

The NFIP encourages State and local governments to adopt sound floodplain management programs. To assist in this endeavor, each FIS report provides 1-percent-annual-chance floodplain data, which may include a combination of the following: 10-, 2-, 1-, and 0.2-percent-annual-chance flood elevations; delineations of the 1- and 0.2-percent-annual-chance floodplains; and a 1-percent-annual-chance floodway. This information is presented on the FIRM and in many components of the FIS report, including Flood Profiles, Floodway Data tables, and Summary of Stillwater Elevation tables. Users should reference the data presented in the FIS report as well as additional information that may be available at the local community map repository before making flood elevation and/or floodplain boundary determinations.

### 4.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-annual-chance flood is employed to indicate additional areas of flood risk in the community. For each stream studied by detailed methods, the 1- and 0.2-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. For the previous studies, the boundaries between cross sections were interpolated using topographic maps with a contour interval of 2 feet (References 58, 59, 60, 61, 62, 63). For this PMR, the floodplain boundaries in between cross sections were interpolated using the TIN generated from the 2009 LIDAR.

The 1- and 0.2-percent-annual-chance floodplain boundaries are shown on the FIRM. On this map, the 1-percent-annual-chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones A, AE, and AO), and the 0.2-percent-annual-chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1- and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-annual-chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations, but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

For the streams studied by approximate methods, only the 1-percent-annual-chance floodplain boundary is shown on the FIRM.

Approximate 1-percent-annual-chance floodplain boundaries in some portions of the study area were taken directly from the Flood Hazard Boundary Map for Tarrant County.

### 4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local communities in this aspect of floodplain management. Under this concept, the area of the 1-percent-annual-chance floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the base flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1 foot, provided that hazardous velocities are not produced.

The floodways in this study are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway studies.

The floodways presented in this study were computed for certain stream segments on the basis of equal-conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. The results of the floodway computations are tabulated for selected cross sections (see Table 6, Floodway Data). In cases where the floodway and 1-percent-annual-chance floodplain boundaries are either close together or collinear, only the floodway boundary is shown.

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Arbor Creek A-G <sup>1</sup>								Arbor Creek A-G1
H	7,948 <sup>2</sup>	120	1,020	4.0	500.7	500.7	501.2	H
I	8,972 <sup>2</sup>	252	1,084	3.2	505.4	505.4	506.0	I
J	10,104 <sup>2</sup>	120	418	8.3	509.7	509.7	509.7	J
K	10,629 <sup>2</sup>	104	455	7.6	516.1	516.1	516.2	K
L	11,934 <sup>2</sup>	83	264	8.1	525.7	525.7	525.8	L
M	12,684 <sup>2</sup>	100	511	4.2	532.9	532.9	533.6	M

<sup>1</sup>Cross sections A through G are located within Dallas County

<sup>2</sup>Stream distance in feet above confluence with Johnson Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>ARBOR CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD 88)			
Big Fossil Creek								
A	6,889	572	10,950	3.2	503.5	499.92	500.7	0.8
B	8,170	729	13,610	2.6	503.5	500.02	500.9	0.9
C	9,101	677	11,803	3.2	503.5	500.12	500.9	0.8
D	9,876	379	6,466	4.8	503.5	500.12	501.0	0.9
E	10,104	411	5,413	5.8	505.3	505.3	506.2	0.9
F	11,437	302	6,269	5.0	507.3	507.3	507.5	0.2
G	13,039	267	5,517	5.7	507.7	507.7	508.1	0.4
H	14,917	252	4,832	6.5	508.7	508.7	509.3	0.6
I	16,114	241	4,355	7.2	509.6	509.6	510.2	0.6
J	17,317	353	4,491	7.0	514.5	514.5	514.6	0.1
K	18,462	600	6,554	4.8	517.0	517.0	517.8	0.8
L	19,585	1,189	12,503	2.5	518.3	518.3	519.2	0.9
M	20,617	1,100	9,043	3.5	519.9	519.9	520.9	1.0
N	22,119	962	8,433	3.7	523.1	523.1	524.0	0.9
O	23,161	1,145	8,898	3.5	524.8	524.8	525.7	0.9
P	24,277	1,309	9,236	3.4	525.6	525.6	526.5	0.9
Q	25,339	1,120	8,199	3.8	527.6	527.6	528.3	0.7
R	26,411	1,055	6,728	4.6	529.7	529.7	530.6	0.9
S	27,463	785	6,207	5.0	531.9	531.9	532.7	0.8
T	28,599	860	7,834	4.0	535.9	535.9	536.6	0.7
U	29,709	405	4,310	7.2	537.5	537.5	538.3	0.8
V	30,842	348	3,973	7.8	542.2	542.2	542.7	0.5
W	32,018	592	5,576	5.4	544.5	544.5	545.0	0.5
X	33,462	460	5,564	5.4	549.1	549.1	549.2	0.1
Y	34,581	314	5,512	5.5	551.8	551.8	552.1	0.3

<sup>1</sup>Stream distance in feet above confluence with West Fork Trinity River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BIG FOSSIL CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD 88)			
Big Fossil Creek								
(continued)								
Z	35,872	487	13,175	2.3	566.0	566.0	566.1	0.1
AA	37,291	1,080	20,855	1.1	566.2	566.2	566.2	0.0
AB	37,775	1,290	21,764	1.1	566.2	566.2	566.2	0.0
AC	40,510	284	4,157	5.7	566.4	566.4	566.5	0.1
AD	40,763	313	4,069	5.8	566.6	566.6	566.7	0.1
AE	42,181	210	4,133	5.7	569.5	569.5	569.8	0.3
AF	43,335	733	8,347	2.9	570.3	570.3	570.8	0.5
AG	44,508	655	4,505	5.3	571.2	571.2	572.0	0.8
AH	45,727	475	3,888	6.1	575.0	575.0	576.0	1.0
AI	46,752	445	3,813	6.2	579.6	579.6	580.0	0.4
AJ	47,735	279	2,930	7.9	583.4	583.4	584.1	0.7
AK	48,732	294	3,846	6.0	587.2	587.2	588.1	0.9
AL	49,899	292	3,469	5.4	590.1	590.1	591.0	0.9
AM	51,206	209	2,494	7.5	594.3	594.3	595.1	0.8
AN	52,293	520	6,150	3.0	598.5	598.5	599.1	0.6
AO	53,485	667	5,339	3.5	600.2	600.2	601.0	0.8
AP	53,907	235	2,884	6.4	600.4	600.4	601.3	0.9
AQ	54,371	236	3,165	5.9	601.1	601.1	601.9	0.8
AR	55,335	120	1,082	16.1	602.6	602.6	603.1	0.5
AS	55,834	147	1,803	9.7	608.8	608.8	608.8	0.0
AT	56,748	347	3,940	4.7	613.3	613.3	613.4	0.1
AU	57,721	345	4,070	4.1	614.7	614.7	614.9	0.2
AV	58,734	440	3,732	4.5	616.8	616.8	617.5	0.7
AW	59,952	878	4,443	3.7	621.2	621.2	621.5	0.3

<sup>1</sup>Stream distance in feet above confluence with West Fork Trinity River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
TARRANT COUNTY, TX  
AND INCORPORATED AREAS

FLOODWAY DATA

BIG FOSSIL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					FEET (NAVD 88)			
Big Fossil Creek (continued)								
AW	59,952	878	4,443	3.7	621.2	621.2	621.5	0.3
AX	61,615	425	3,004	5.5	625.9	625.9	626.7	0.8
AY	62,795	690	3,900	4.3	629.8	629.8	630.6	0.8
AZ	63,641	522	2,939	5.7	633.4	633.4	634.1	0.7
BA	64,630	720	3,842	4.1	637.5	637.5	637.7	0.2
BB	65,859	492	2,628	6.0	642.0	642.0	643.0	1.0
BC	67,161	555	2,658	5.9	648.0	648.0	648.6	0.6
BD	68,078	641	4,167	3.8	652.4	652.4	652.6	0.2
BE	69,395	429	2,242	6.0	657.0	657.0	657.5	0.5
BF	70,403	424	2,807	4.9	661.0	661.0	661.9	0.9
BG	71,458	628	3,730	4.0	664.8	664.8	665.2	0.4
BH	72,076	551	2,786	2.7	666.6	666.6	667.0	0.4
BI	74,357	296	1,462	4.9	674.3	674.3	674.9	0.6
BJ	74,722	396	1,913	3.8	676.0	676.0	676.5	0.5
BK	75,340	385	1,520	4.7	678.9	678.9	678.9	0.0
BL	76,402	730	3,841	1.9	691.0	691.0	691.3	0.3
BM	77,764	337	2,008	3.7	691.4	691.4	691.6	0.2
BN	79,007	479	5,985	1.2	704.3	704.3	704.3	0.0
BO	80,236	736	4,058	1.8	704.5	704.5	704.5	0.0
BP	81,499	403	1,365	4.9	706.9	706.9	706.9	0.0
BQ	82,662	305	1,361	4.8	712.9	712.9	713.0	0.1
BR	84,022	257	1,748	3.8	720.2	720.2	720.8	0.6
BS	84,924	217	1,113	5.9	724.1	724.1	724.1	0.0
BT	85,773	419	1,259	4.1	727.6	727.6	728.4	0.8

<sup>1</sup>Stream distance in feet above confluence with West Fork Trinity River

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>BIG FOSSIL CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
FEET (NAVD 88)								
Big Fossil Creek								
(continued)								
BU	87,016	339	1,368	3.8	734.3	734.3	735.3	1.0
BV	87,977	267	1,074	4.8	738.6	738.6	739.1	0.5
BW	89,125	280	1,138	4.5	743.7	743.7	744.1	0.4
BX	90,246	280	1,467	3.5	746.9	746.9	747.8	0.9
BY	91,390	264	1,348	2.6	749.7	749.7	750.5	0.8
BZ	92,251	189	1,014	3.4	752.4	752.4	752.9	0.5
CA	93,261	170	805	4.3	755.7	755.7	755.9	0.2
CB	94,264	130	704	4.9	760.0	760.0	760.3	0.3
CC	95,534	235	997	3.5	766.5	766.5	767.3	0.8
CD	96,441	209	737	4.7	769.3	769.3	769.5	0.2
CE	97,346	230	1,022	3.4	772.2	772.2	772.4	0.2
CF	98,333	212	724	4.8	777.8	777.8	778.1	0.3
CG	99,530	179	533	6.5	783.5	783.5	783.6	0.1
CH	100,437	272	1,101	3.2	786.9	786.9	787.3	0.4
CI	101,621	212	981	0.6	789.0	789.0	789.7	0.7
CJ	102,570	94	183	3.4	791.6	791.6	791.7	0.1
CK	103,485	134	169	3.7	799.2	799.2	799.2	0.0
CL	104,626	246	304	2.0	804.5	804.5	804.5	0.0
CM	105,678	216	306	2.0	809.9	809.9	809.9	0.0
CN	106,624	122	181	3.4	814.3	814.3	814.3	0.0
CO	107,901	123	238	2.6	818.6	818.6	818.6	0.0
CP	109,114	83	112	1.5	823.2	823.2	823.2	0.0
CQ	110,021	56	63	2.7	828.0	828.0	828.0	0.0
CR	111,464	56	50	3.4	838.1	838.1	838.1	0.0
CS	112,489	39	54	3.2	849.3	849.3	849.3	0.0

<sup>1</sup>Stream distance in feet above confluence with West Fork Trinity River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BIG FOSSIL CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD 88)			
Stream BFC-1								
A	985	108	599	10.0	579.5	577.4 <sup>2</sup>	577.7	0.3
B	1,390	104	676	8.9	582.3	582.3	582.3	0.0
C	1,720	106	667	9.0	585.2	585.2	585.2	0.0
D	2,120	107	711	8.4	587.7	587.7	587.7	0.0
E	2,435	121	811	6.9	589.7	589.7	589.7	0.0
F	2,800	116	753	7.5	591.0	591.0	591.0	0.0
G	3,050	92	545	10.3	592.2	592.2	592.3	0.1
H	3,360	58	434	13.0	592.7	592.7	592.8	0.1
I	3,960	53	358	15.7	599.5	599.5	599.5	0.0
J	4,585	152	1,551	3.1	606.4	606.4	606.4	0.0
K	4,950	103	1,009	4.8	606.5	606.5	606.5	0.0
L	5,450	109	988	4.9	607.1	607.1	607.2	0.1
M	5,950	127	1,050	4.6	607.7	607.7	607.8	0.1
N	6,340	113	827	4.7	608.2	608.2	608.2	0.0
O	6,571	96	619	6.3	610.2	610.2	610.5	0.3
P	7,047	82	545	7.1	611.4	611.4	611.6	0.2
Q	7,640	87	513	6.8	613.3	613.3	613.6	0.3
R	7,860	91	826	4.2	617.9	617.9	618.3	0.4
S	8,320	99	697	5.0	618.3	618.3	618.7	0.4
T	8,720	90	543	6.4	618.8	618.8	619.1	0.3
U	8,920	69	378	7.0	619.3	619.3	619.5	0.2
V	9,320	68	333	7.9	620.9	620.9	621.0	0.1
W	9,620	67	310	8.5	622.4	622.4	622.4	0.0
X	9,900	75	394	6.7	624.3	624.3	624.3	0.0
Y	10,189	113	577	4.6	627.4	627.4	627.4	0.0
Z	10,729	112	559	4.7	628.9	628.9	628.9	0.0

<sup>1</sup>Stream distance in feet above confluence with Big Fossil Creek

<sup>2</sup>Elevation computed without consideration of backwater effects from Big Fossil Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**STREAM BFC-1**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD 88)			
Stream BFC-6								
A	1,120 <sup>1</sup>	90	578	5.3	529.9	529.9	530.0	0.1
B	1,960 <sup>1</sup>	80	522	5.9	539.7	539.7	540.2	0.5
C	2,980 <sup>1</sup>	70	509	4.7	554.8	554.8	555.5	0.7
D	3,220 <sup>1</sup>	80	399	6.0	556.1	556.1	556.6	0.5
E	3,710 <sup>1</sup>	34	145	9.2	562.8	562.8	563.2	0.4
Stream BFC-7								
A	580 <sup>1</sup>	65	409	5.1	536.0	531.9 <sup>4</sup>	531.9	0.0
B	1,130 <sup>1</sup>	50	243	8.6	536.0	535.2 <sup>4</sup>	535.2	0.0
Blessing Branch								
A	8,480 <sup>2</sup>	157	992	4.6	540.2	540.2	541.1	0.9
B	10,340 <sup>2</sup>	180	1,160	3.9	546.0	546.0	547.0	1.0
C	11,830 <sup>2</sup>	90	809	4.4	554.3	554.3	554.5	0.2
D	13,770 <sup>2</sup>	53	315	7.4	559.9	559.9	560.6	0.7
E	15,300 <sup>2</sup>	82	508	4.6	569.6	569.6	570.0	0.4
Boaz Creek								
A	800 <sup>3</sup>	92	684	7.4	665.0	665.0	666.0	1.0
B	1,650 <sup>3</sup>	100	616	5.7	672.1	672.1	672.5	0.4

<sup>1</sup>Stream distance in feet above confluence with Big Fossil Creek  
<sup>2</sup>Stream distance in feet above confluence with West Fork Trinity River  
<sup>3</sup>Stream distance in feet above confluence with Walnut Creek  
<sup>4</sup>Elevation computed without consideration of backwater effects from Big Fossil Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>STREAM BFC-6 – STREAM BFC-7 BLESSING BRANCH – BOAZ CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Cottonwood Creek 2 A-P <sup>1</sup>								
Q	21,889 <sup>2</sup>	215	1,204	8.2	513.9	513.9	514.8	0.9
R	22,619 <sup>2</sup>	151	1,869	5.3	524.3	524.3	524.5	0.2
S	23,286 <sup>2</sup>	340	3,049	2.7	526.0	526.0	526.9	0.9
T	24,480 <sup>2</sup>	153	1,253	6.3	530.6	530.6	530.8	0.2
U	26,326 <sup>2</sup>	244	2,139	3.0	539.7	539.7	540.7	1.0
V	27,561 <sup>2</sup>	90	591	5.5	541.7	541.7	542.5	0.8
W	29,726 <sup>2</sup>	110	661	4.6	557.5	557.5	557.6	0.1
X	31,236 <sup>2</sup>	37	287	10.1	574.8	574.8	575.6	0.8
Y	32,205 <sup>2</sup>	301	762	2.1	582.4	582.4	582.9	0.5
Z	33,381 <sup>2</sup>	35	224	5.2	588.2	588.2	588.7	0.5
AA	33,586 <sup>2</sup>	38	225	5.2	590.2	590.2	590.2	0.0
AB	34,234 <sup>2</sup>	75	282	3.3	596.9	596.9	597.6	0.7
AC	34,543 <sup>2</sup>	81	331	2.8	602.7	602.7	603.2	0.5
AD	35,177 <sup>2</sup>	71	122	7.5	608.9	608.9	608.9	0.0

<sup>1</sup>Cross section A through P are located within Dallas County

<sup>2</sup>Stream distance in feet above confluence with Mountain Creek Lake

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>COTTONWOOD CREEK 2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Stream CC-1								
A	505 <sup>1</sup>	55	274	2.9	538.0	538.0	538.0	0.0
B	680 <sup>1</sup>	43	120	6.6	538.0	538.0	538.0	0.0
C	1,166 <sup>1</sup>	38	90	8.7	542.6	542.6	542.6	0.0
Stream CC-2								
A	411 <sup>1</sup>	156	826	4.0	541.6	541.6	542.4	0.8
B	839 <sup>1</sup>	66	316	10.4	541.9	541.9	542.8	0.9
C	957 <sup>1</sup>	58	626	5.3	546.9	546.9	547.3	0.4
D	1,404 <sup>1</sup>	63	387	8.5	548.4	548.4	547.9	-0.5
E	1,762 <sup>1</sup>	49	257	12.7	549.3	549.3	549.3	0.0
F	2,580 <sup>1</sup>	28	190	14.8	555.9	555.9	555.9	0.0
G	4,361 <sup>1</sup>	33	177	13.1	568.4	568.4	568.4	0.0
H	4,688 <sup>1</sup>	16	140	7.1	572.2	572.2	572.8	0.6
I	4,798 <sup>1</sup>	16	102	9.7	572.2	572.2	572.8	0.6
J	6,273 <sup>1</sup>	12	22	7.8	583.4	583.4	583.4	0.0

<sup>1</sup>Stream distance in feet above confluence with Cottonwood Creek 2

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>STREAM CC-1 – STREAM CC-2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Stream CC-3								
A	1,152 <sup>1</sup>	18	170	7.6	579.1	579.1	580.1	1.0
B	2,030 <sup>1</sup>	20	150	6.8	588.5	588.5	588.8	0.3
C	2,461 <sup>1</sup>	15	150	5.8	592.8	592.8	593.5	0.7
D	3,561 <sup>1</sup>	15	70	12.3	599.1	599.1	599.1	0.0
E	3,666 <sup>1</sup>	97	287	3.0	602.8	602.8	603.8	1.0
F	4,368 <sup>1</sup>	13	56	11.7	604.1	604.1	604.1	0.0
Stream CC-4								
A	213 <sup>1</sup>	27	64	8.7	585.4	585.4	585.5	0.1
B	1,213 <sup>1</sup>	18	55	9.9	596.3	596.3	596.5	0.2

<sup>1</sup>Stream distance in feet above confluence with Village Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>STREAM CC-3 – STREAM CC-4</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
South Fork of Cottonwood Creek 2								
A-G <sup>1</sup>								
H	15,193 <sup>2</sup>	133	1,317	4.1	543.6	543.6	544.5	0.9
I	16,685 <sup>2</sup>	287	2,860	1.9	553.2	553.2	553.6	0.4
J	17,616 <sup>2</sup>	229	1,628	3.0	554.0	554.0	554.6	0.6
K	19,618 <sup>2</sup>	154	698	7.0	560.5	560.5	561.2	0.7
L	21,173 <sup>2</sup>	71	714	6.1	571.6	571.6	572.2	0.6
M	24,914 <sup>2</sup>	55	406	5.7	593.1	593.1	593.8	0.7
N	27,114 <sup>2</sup>	95	882	2.4	603.7	603.7	604.1	0.4
O	27,767 <sup>2</sup>	64	370	5.5	607.6	607.6	607.6	0.0
P	28,704 <sup>2</sup>	67	220	6.6	614.2	614.2	614.7	0.5
Q	29,069 <sup>2</sup>	47	139	9.8	616.9	616.9	616.9	0.0
R	29,136 <sup>2</sup>	125	324	4.2	619.9	619.9	620.3	0.4
S	29,775 <sup>2</sup>	23	87	11.2	622.7	622.7	622.7	0.0

<sup>1</sup>Cross sections A through G are located within Dallas County

<sup>2</sup>Stream distance in feet above confluence with Cottonwood Creek 2

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SOUTH FORK COTTONWOOD CREEK 2**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Dove Creek								
A	14,100 <sup>1</sup>	158	1,011	4.5	574.8	574.8	575.2	0.4
B	15,095 <sup>1</sup>	75	694	4.9	577.7	577.7	578.6	0.9
C	15,957 <sup>1</sup>	181	819	4.7	582.0	582.0	583.4	0.7
D	17,180 <sup>1</sup>	140	669	6.8	588.7	588.7	589.5	0.8
E	19,440 <sup>1</sup>	275	664	4.4	598.0	598.0	598.3	0.3
F	21,560 <sup>1</sup>	410	1,039	2.1	606.7	606.7	607.6	0.9
G	22,830 <sup>1</sup>	232	745	2.9	614.5	614.5	615.4	0.9
Dry Branch								
A	417 <sup>2</sup>	61	436	9.2	510.2	486.4 <sup>3</sup>	486.8	0.4
B	750 <sup>2</sup>	84	922	4.4	510.2	495.7 <sup>3</sup>	495.8	0.1
C	1,349 <sup>2</sup>	80	573	7.0	510.2	496.8 <sup>3</sup>	496.9	0.1
D	1,458 <sup>2</sup>	52	269	14.9	510.2	507.1 <sup>3</sup>	507.1	0.0
E	2,126 <sup>2</sup>	74	819	4.7	517.9	517.9	518.4	0.5
F	2,545 <sup>2</sup>	79	585	6.6	518.8	518.8	519.7	0.9
G	2,912 <sup>2</sup>	48	463	8.4	528.7	528.7	529.0	0.3
H	3,470 <sup>2</sup>	144	1,798	3.3	540.3	540.3	541.3	1.0
I	4,331 <sup>2</sup>	192	1,835	4.3	542.0	542.0	542.8	0.8
J	4,794 <sup>2</sup>	117	924	6.0	543.8	543.8	544.3	0.5
K	5,082 <sup>2</sup>	132	956	6.4	544.2	544.2	545.0	0.8
L	5,209 <sup>2</sup>	83	844	6.6	546.9	546.9	547.8	0.9

<sup>1</sup>Stream distance in feet above estimated flow line of Denton Creek – Grapevine Lake

<sup>2</sup>Stream distance in feet above confluence with West Fork Trinity River

<sup>3</sup>Elevation computed without consideration of backwater effects from West Fork Trinity River

TABLE 7	FEDERAL EMERGENCY MANAGEMENT AGENCY <b>TARRANT COUNTY, TX</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>DOVE CREEK – DRY BRANCH</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Dry Branch (continued)								
M	5,749	234	1,851	3.9	552.6	552.6	552.8	0.2
N	6,032	135	1,129	4.9	552.7	552.7	552.9	0.2
O	7,242	228	1,583	4.6	558.5	558.5	559.4	0.9
P	7,935	114	833	4.0	560.0	560.0	560.6	0.6
Q	8,325	72	514	6.4	562.8	562.8	563.6	0.8
R	8,829	149	1,071	3.1	564.6	564.6	565.6	1.0
S	9,319	72	573	6.3	567.9	567.9	568.8	0.9
T	10,353	98	932	3.8	572.5	572.5	572.9	0.4
U	10,890	135	1,356	2.6	575.1	575.1	576.0	0.9
V	11,321	133	1,153	3.1	576.7	576.7	577.0	0.3
W	11,769	125	1,110	3.2	579.7	579.7	580.6	0.9
X	12,265	99	1,138	1.5	580.6	580.6	581.5	0.9
Y	13,324	95	774	2.4	590.1	590.1	591.1	1.0
Z	13,900	91	1,018	2.6	590.9	590.9	591.8	0.9
AA	14,285	203	1,499	2.2	593.4	593.4	594.2	0.8
AB	15,147	107	729	4.5	594.2	594.2	594.9	0.7
AC	15,653	139	673	4.8	597.4	597.4	598.0	0.6

<sup>1</sup> Stream distance in feet above confluence with West Fork Trinity River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**DRY BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Dutch Branch								
A	3,640 <sup>1</sup>	210	1,574	6.9	727.8	727.8	728.6	0.8
B	4,000 <sup>1</sup>	339	1,505	7.2	731.7	731.7	732.6	0.9
C	6,030 <sup>1</sup>	154	1,370	8.0	742.6	742.6	743.5	0.9
D	8,100 <sup>1</sup>	225	1,359	6.6	757.0	757.0	758.0	1.0
Edgecliff Branch								
A	1,560 <sup>2</sup>	220	2,038	4.6	661.4	661.4	662.1	0.7
B	2,550 <sup>2</sup>	251	2,133	4.4	664.9	664.9	665.4	0.5
C	3,440 <sup>2</sup>	252	1,385	6.7	667.8	667.8	668.5	0.7
D	4,410 <sup>2</sup>	425	2,779	3.3	671.7	671.7	672.7	1.0
E	5,660 <sup>2</sup>	187	1,169	7.0	674.2	674.2	675.1	0.9
F	6,410 <sup>2</sup>	174	932	8.7	678.6	678.6	678.6	0.0
G	7,310 <sup>2</sup>	132	1,184	6.9	682.8	682.8	683.7	0.9
H	8,380 <sup>2</sup>	232	992	8.2	687.6	687.6	687.8	0.2
I	9,290 <sup>2</sup>	331	2,188	3.7	694.3	694.3	695.1	0.8
J	9,840 <sup>2</sup>	224	1,268	6.4	695.5	695.5	696.0	0.5
K	11,200 <sup>2</sup>	201	1,263	6.9	704.0	704.0	705.0	1.0
L	13,690 <sup>2</sup>	140	1,270	6.9	713.1	713.1	713.7	0.6
M	15,660 <sup>2</sup>	103	763	11.4	723.0	723.0	723.0	0.0
N	16,780 <sup>2</sup>	176	1,073	4.4	732.4	732.4	732.4	0.0
O	18,820 <sup>2</sup>	112	427	11.1	735.3	735.3	735.3	0.0
P	21,240 <sup>2</sup>	100	698	6.8	758.3	758.3	759.2	0.9
Q	22,080 <sup>2</sup>	275	1,069	4.4	766.0	766.0	766.3	0.3
R	24,220 <sup>2</sup>	85	442	10.7	779.1	779.1	779.1	0.0

<sup>1</sup>Stream distance in feet above confluence with Benbrook Lake

<sup>2</sup>Stream distance in feet above confluence with Sycamore Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**DUTCH BRANCH – EDGECLIFF BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Fish Creek								
A-K <sup>1</sup>								
L	30,732 <sup>2</sup>	353	3,976	4.3	510.5	510.5	511.4	0.9
M	36,542 <sup>2</sup>	262	2,361	6.2	518.4	518.4	519.2	0.8
N	40,008 <sup>2</sup>	234	2,302	6.3	532.1	532.1	533.1	1.0
O	43,934 <sup>2</sup>	310	3,529	3.7	545.2	545.2	545.9	0.7
P	46,993 <sup>2</sup>	247	2,154	4.4	549.7	549.7	550.5	0.8
Q	47,889 <sup>2</sup>	310	2,110	4.6	551.1	551.1	552.0	0.9
R	49,818 <sup>2</sup>	407	2,923	3.3	558.0	558.0	558.7	0.7
S	52,248 <sup>2</sup>	232	1,881	5.2	563.3	563.3	564.2	0.9
T	54,470 <sup>2</sup>	143	1,340	7.3	568.0	568.0	568.7	0.7
U	55,630 <sup>2</sup>	234	1,950	5.0	572.2	572.2	573.1	0.9
V	56,957 <sup>2</sup>	188	1,263	4.8	575.1	575.1	576.1	1.0
W	58,212 <sup>2</sup>	196	862	5.8	580.0	580.0	581.0	1.0
X	59,675 <sup>2</sup>	186	993	5.0	584.8	584.8	585.2	0.4
Y	60,628 <sup>2</sup>	181	890	4.2	589.0	589.0	589.4	0.4
Z	61,962 <sup>2</sup>	183	747	5.0	594.8	594.8	595.7	0.9
AA	63,158 <sup>2</sup>	363	894	4.2	599.6	599.6	600.5	0.9
AB	64,679 <sup>2</sup>	181	965	3.9	606.1	606.1	607.0	0.9
AC	65,495 <sup>2</sup>	161	687	4.0	610.4	610.4	611.1	0.7

<sup>1</sup>Cross sections A through K are located within Dallas County

<sup>2</sup>Stream distance in feet above confluence with Mountain Creek Lake

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>FISH CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Stream FC-1								
A	1,327 <sup>1</sup>	213	1,383	3.0	552.1	552.1	553.1	1.0
B	2,969 <sup>1</sup>	110	756	5.3	557.6	557.6	558.5	0.9
C	5,414 <sup>1</sup>	87	367	8.7	567.2	567.2	567.2	0.0
D	6,895 <sup>1</sup>	85	334	9.6	573.6	573.6	573.6	0.0
E	8,371 <sup>1</sup>	85	333	9.6	580.4	580.4	580.4	0.0
Stream FC-2								
A	1,272 <sup>1</sup>	159	936	4.6	575.0	575.0	575.4	0.4
B	2,878 <sup>1</sup>	192	798	5.4	581.4	581.4	582.3	0.9
C	4,892 <sup>1</sup>	224	877	3.2	590.0	590.0	590.8	0.8
D	5,653 <sup>1</sup>	177	693	4.0	592.7	592.7	593.7	1.0
E	6,521 <sup>1</sup>	188	692	4.0	596.0	596.0	596.8	0.8
F	7,157 <sup>1</sup>	116	379	7.3	599.7	599.7	600.5	0.8
Stream FC-3								
A	110 <sup>1</sup>	74	686	3.2	536.7	536.7	537.6	0.9
B	957 <sup>1</sup>	58	461	4.7	543.2	543.2	543.9	0.7
C	1,460 <sup>1</sup>	59	266	7.2	543.2	543.2	543.9	0.7
D	2,748 <sup>1</sup>	49	177	10.8	550.9	550.9	550.9	0.0
E	2,926 <sup>1</sup>	100	554	3.5	555.3	555.3	556.2	0.9
F	5,980 <sup>1</sup>	63	205	7.1	567.5	567.5	567.5	0.0
G	6,185 <sup>1</sup>	82	417	3.5	570.7	570.7	570.7	0.0
H	7,057 <sup>1</sup>	57	246	5.9	572.5	572.5	572.5	0.0
I	7,863 <sup>1</sup>	100	389	3.7	578.1	578.1	578.2	0.1

<sup>1</sup>Stream distance in feet above confluence with Fish Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**STREAM FC-1 – STREAM FC-2 – STREAM FC-3**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Stream FC-4								
A	1,238 <sup>1</sup>	190	653	4.4	539.2	539.2	540.2	1.0
B	2,035 <sup>1</sup>	289	1,479	1.9	546.7	546.7	547.5	0.8
C	2,507 <sup>1</sup>	75	240	5.2	546.7	546.7	547.5	0.8
D	5,801 <sup>1</sup>	80	291	4.3	566.3	566.3	566.3	0.0
E	6,855 <sup>1</sup>	102	254	4.9	574.2	574.2	574.6	0.4
F	8,063 <sup>1</sup>	99	226	5.5	582.9	582.9	583.0	0.1
North Fork of Fish Creek (Prairie Creek)								
A-C <sup>2</sup>								
D	13,687 <sup>1</sup>	130	2,522	4.0	537.5	537.5	538.4	0.9
E	13,910 <sup>1</sup>	188	3,205	3.2	537.6	537.6	538.6	1.0
F	15,272 <sup>1</sup>	145	1,748	5.9	538.2	538.2	539.1	0.9
G	17,09 <sup>1</sup>	139	1,475	6.9	542.6	542.6	543.4	0.8
H	23,367 <sup>1</sup>	233	1,542	5.8	558.2	558.2	559.0	0.8
North Fork of Fish Creek								
I	25,164 <sup>1</sup>	102	1,372	6.5	573.3	573.3	574.0	0.7
J	26,747 <sup>1</sup>	100	679	13.3	573.3	573.3	574.0	0.7
K	29,887 <sup>1</sup>	413	669	6.3	586.3	586.3	586.3	0.0
L	30,373 <sup>1</sup>	76	429	9.8	590.5	590.5	590.5	0.0
M	31,938 <sup>1</sup>	56	471	6.9	599.2	599.2	599.2	0.0
N	33,170 <sup>1</sup>	39	179	10.0	599.3	599.3	599.4	0.1
O	35,101 <sup>1</sup>	54	174	10.3	614.3	614.3	614.3	0.0
P	35,330 <sup>1</sup>	71	338	5.3	617.8	617.8	617.8	0.0
Q	36,215 <sup>1</sup>	65	182	4.9	622.7	622.7	622.7	0.0
R	36,333 <sup>1</sup>	97	389	2.3	626.0	626.0	626.8	0.8
S	37,647 <sup>1</sup>	26	85	10.5	631.7	631.7	631.7	0.0

<sup>1</sup> Stream distance in feet above confluence with Fish Creek

<sup>2</sup> Cross Sections A through C are located within Dallas County

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>STREAM FC-4 – NORTH FORK OF FISH CREEK (PRAIRIE CREEK)</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Stream NF-1								
A	884 <sup>1</sup>	46	230	5.1	578.6	578.6	579.3	0.7
B	1,124 <sup>1</sup>	132	302	3.9	581.5	581.5	582.0	0.5
C	2,516 <sup>1</sup>	21	67	10.1	589.9	589.9	589.9	0.0
Stream NF-2								
A	533 <sup>1</sup>	85	437	2.3	582.0	582.0	582.0	0.0
B	964 <sup>1</sup>	50	264	3.8	582.0	582.0	582.0	0.0

<sup>1</sup>Stream distance in feet above confluence with North Fork of Fish Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**STREAM NF-1 – NF-2**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Stream NF-3								
A	1,066 <sup>1</sup>	76	408	5.2	588.5	588.5	589.3	0.8
B	1,425 <sup>1</sup>	72	228	8.7	590.5	590.5	590.6	0.1
C	1,795 <sup>1</sup>	63	197	10.1	591.8	591.8	592.0	0.2
D	2,023 <sup>1</sup>	205	707	2.8	593.4	593.4	594.4	1.0
E	3,151 <sup>1</sup>	49	160	9.9	596.9	596.9	596.9	0.0
F	3,365 <sup>1</sup>	44	212	7.4	599.0	599.0	599.1	0.1
G	4,251 <sup>1</sup>	26	73	9.6	601.0	601.0	601.0	0.0
H	5,283 <sup>1</sup>	28	106	6.7	615.1	615.1	615.7	0.6
Stream NF-4								
A	1,050 <sup>1</sup>	40	217	3.3	597.2	597.2	597.5	0.3
B	1,287 <sup>1</sup>	24	137	4.5	599.6	599.6	600.5	0.9
C	1,505 <sup>1</sup>	19	79	7.8	599.6	599.6	600.5	0.9
D	2,513 <sup>1</sup>	17	59	10.5	606.8	606.8	606.8	0.0
E	2,604 <sup>1</sup>	21	60	10.2	608.5	608.5	608.5	0.0
F	2,713 <sup>1</sup>	19	76	7.9	609.5	609.5	609.4	-0.1
G	3,046 <sup>1</sup>	29	71	8.4	609.9	609.9	610.0	0.1
H	3,200 <sup>1</sup>	18	58	10.3	611.1	611.1	611.1	0.0
I	3,287 <sup>1</sup>	17	53	10.0	612.4	612.4	612.4	0.0
J	3,498 <sup>1</sup>	45	79	6.8	614.7	614.7	614.7	0.0

<sup>1</sup>Stream distance in feet above confluence with North Fork of Fish Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>STREAM NF 3 – STREAM NF-4</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Johnson Creek								
A-C <sup>1</sup>								
D	9,735 <sup>2</sup>	333	1,524	12.1	467.0	467.0	467.0	0.0
E	10,591 <sup>2</sup>	218	2,118	8.5	473.8	473.8	474.0	0.2
F	11,247 <sup>2</sup>	188	2,267	8.0	476.8	476.8	477.3	0.5
G	12,201 <sup>2</sup>	216	2,858	6.3	480.6	480.6	481.0	0.4
H	13,105 <sup>2</sup>	414	2,292	7.9	482.3	482.3	482.8	0.5
I	13,662 <sup>2</sup>	253	2,332	7.7	486.4	486.4	486.6	0.2
J	14,248 <sup>2</sup>	214	2,486	7.2	489.8	489.8	489.9	0.1
K	14,839 <sup>2</sup>	468	2,888	8.0	491.1	491.1	491.4	0.3
L	15,246 <sup>2</sup>	394	2,686	6.7	493.0	493.0	493.2	0.2
M	15,829 <sup>2</sup>	185	1,482	12.1	497.9	497.9	497.9	0.0
N	16,029 <sup>2</sup>	158	2,647	6.8	505.9	505.9	505.9	0.0
O	17,827 <sup>2</sup>	372	3,508	5.1	507.1	507.1	507.7	0.6
P	18,756 <sup>2</sup>	166	2,207	8.1	510.1	510.1	510.5	0.4
Q	19,396 <sup>2</sup>	164	2,109	8.5	511.3	511.3	511.6	0.3
R	20,784 <sup>2</sup>	135	2,510	7.2	517.0	517.0	517.4	0.4

<sup>1</sup>Cross sections A through C are located with Dallas County

<sup>2</sup>Stream distance in feet above confluence with West Fork Trinity River

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>JOHNSON CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Little Fossil Creek								
A	9,750	1,309	4,008	5.7	516.3	516.1	517.1	1.0
B	10,800	732	3,380	7.5	520.6	520.6	520.7	0.1
C	12,745	675	6,294	2.8	531.3	531.3	531.8	0.5
D	14,425	798	4,627	3.8	534.5	534.5	534.9	0.4
E	15,590	798	4,663	3.7	536.2	536.2	537	0.8
F	16,545	750	4,465	3.8	538.5	538.5	539.2	0.7
G	18,175	500	2,609	6.5	543.0	543.0	543.7	0.7
H	20,315	275	2,282	7.4	550.8	550.8	551.7	0.9
I	20,925	275	2,641	6.4	553.5	553.5	554.3	0.8
J	22,600	275	2,712	5.8	559.0	559.0	559.9	0.9
K	23,465	300	1,808	8.1	561.5	561.5	562.3	0.8
L	25,920	525	5,771	2.7	578.7	578.7	578.9	0.2
M	28,600	298	2,809	4.5	582.5	582.5	583.4	0.9
N	30,880	105	1,235	10.2	585.9	585.9	586.7	0.8
O	32,730	90	1,176	8.2	591.4	591.4	591.6	0.2
P	33,920	95	921	10.5	595.1	595.1	595.1	0.0
Q	35,195	330	2,205	4.4	603.6	603.6	603.7	0.1
R	35,560	190	1,422	6.8	606.8	606.8	607.8	1.0
S	37,870	175	1,468	6.2	612.8	612.8	613.1	0.3
T	39,684	250	1,378	6.4	617.8	617.8	618.6	0.8
U	40,600	140	1,161	6.6	621.9	621.9	622.7	0.8
V	44,350	198	1,661	4.4	639.7	639.7	640.5	0.8
W	47,060	200	737	9.6	649.0	649.0	649.0	0.0

<sup>1</sup>Stream distance in feet above confluence with Big Fossil Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>LITTLE FOSSIL CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Little Fossil Creek (continued)								
X	49,144	122	883	8.0	656.8	656.8	656.9	0.1
Y	49,744	122	831	8.5	659.0	659.0	659.1	0.1
Z	50,144	124	827	8.6	660.8	660.8	660.8	0.0
AA	52,868	344	1,167	4.4	679.1	679.1	679.1	0.0
AB	53,768	340	933	5.5	683.3	683.3	683.3	0.0
AC	54,818	368	1,080	4.8	690.5	690.5	690.5	0.0
AD	55,515	282	2,230	1.9	694.2	694.2	694.4	0.2
AE	58,068	417	1,094	3.4	704.5	704.5	704.8	0.3
AF	61,616	593	1,238	3.0	723.6	723.6	724.3	0.7
Little Fossil Creek Split Flow								
A	1,225	226 <sup>2</sup>	1,492	1.5	505.9	505.9 <sup>3</sup>	506.9	1.0
B	2,220	354 <sup>2</sup>	618	5.3	507.0	507.0	507.5	0.5
C	3,580	234 <sup>2</sup>	1,405	2.1	509.1	509.1	509.5	0.4
D	5,290	275 <sup>2</sup>	1,098	4.5	509.3	509.3	509.9	0.6
E	6,625	841 <sup>2</sup>	3,308	3.4	509.9	509.9	510.9	1.0

<sup>1</sup> Stream distance in feet above confluence with Big Fossil Creek

<sup>2</sup>Width does not include Midway Road

<sup>3</sup>Elevation computed without consideration of backwater effects from Big Fossil Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>LITTLE FOSSIL CREEK – LITTLE FOSSIL CREEK SPLIT FLOW</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Singing Hills Creek								
A	2,160	211	1,245	8.5	544.4	544.2 <sup>2</sup>	544.8	0.6
B	2,820	350	3,222	3.3	551.0	551.0	551.8	0.8
C	3,930	350	1,997	5.3	552.8	552.8	553.5	0.7
D	4,850	221	1,578	6.7	556.9	556.9	557.6	0.7
E	6,070	219	1,550	6.8	562.3	562.3	563.1	0.8
F	7,710	220	1,564	6.7	574.3	574.3	574.9	0.6
G	9,460	58	430	21.0	574.8	574.8	574.8	0.0
H	10,000	60	447	20.1	577.2	577.2	577.2	0.0
I	10,420	50	399	22.6	578.6	578.6	578.6	0.0
J	11,200	50	297	19.5	584.1	584.1	584.1	0.0
K	12,360	117	947	6.1	594.6	594.6	594.8	0.2
L	12,740	224	796	7.3	598.0	598.0	598.1	0.1
M	13,495	45	425	9.3	601.0	601.0	601.7	0.7
N	14,440	54	202	19.5	602.9	602.9	602.9	0.0
O	15,295	55	165	23.9	607.1	607.1	607.1	0.0
P	15,450	240	1,270	6.2	618.5	618.5	619.3	0.8
Q	18,200	264	717	3.8	633.4	633.4	633.5	0.1
R	19,460	114	521	5.3	638.4	638.4	638.4	0.0
S	21,185	203	775	3.6	648.0	648.0	648.9	0.9
T	21,810	161	598	4.6	651.0	651.0	651.6	0.6
U	21,980	210	344	3.3	653.7	653.7	654.7	0.0

<sup>1</sup>Stream distance in feet above confluence with Big Fossil Creek

<sup>2</sup>Elevation computed without consideration of backwater effects from Big Fossil Creek

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>SINGING HILLS CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
Sycamore Creek		FEET (NAVD)						
A	339	527	6,596	4.3	521.9	521.9	522.0	0.1
B	1,056	291	3,834	7.5	522.6	522.6	522.6	0.0
C	2,510	313	3,650	7.8	524.9	524.9	525.6	0.7
D	3,724	520	8,105	3.6	528.5	528.5	529.4	0.9
E	6,422	713	4,061	7.1	529.2	529.2	530.2	1.0
F	6,945	606	6,281	5.2	532.5	532.5	533.0	0.5
G	8,473	370	2,462	11.7	533.5	533.5	533.7	0.2
H	9,385	239	3,204	9.0	540.8	540.8	541.5	0.7
I	10,375	540	6,414	4.5	542.8	542.8	543.3	0.5
J	11,860	436	3,593	7.9	543.7	543.7	544.7	1.0
K	13,843	562	6,771	4.2	552.2	552.2	552.3	0.1
L	15,536	451	2,917	9.4	553.1	553.1	553.5	0.4
M	18,266	635	7,382	3.6	561.4	561.4	562.3	0.9
N	19,937	582	3,396	7.8	566.5	566.5	566.8	0.3
O	21,372	530	6,022	4.4	573.9	573.9	574.7	0.8
P	23,535	354	4,626	5.7	577.7	577.7	577.9	0.2
Q	25,308	199	3,212	8.0	580.9	580.9	581.5	0.6
R	26,703	365	6,236	4.1	587.2	587.2	587.6	0.4
S	29,441	235	3,469	7.0	589.8	589.8	590.7	0.9
U	34,956	323	2,168	10.5	608.4	608.4	608.8	0.4
V	36,387	591	3,471	6.6	614.7	614.7	614.7	0.0
S	29,441	235	3,469	7.0	589.8	589.8	590.7	0.9
T	31,891	511	4,596	5.3	602.9	602.9	602.9	0.0
U	34,956	323	2,168	10.5	608.4	608.4	608.8	0.4
V	36,387	591	3,471	6.6	614.7	614.7	614.7	0.0

<sup>1</sup>Stream distance in feet above the confluence with West Fork Trinity River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SYCAMORE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD)			
Sycamore Creek (continued)								
W	37,718	172	2,040	11.2	621.5	621.5	621.5	0.0
X	39,761	305	3,765	6.1	632.1	632.1	632.9	0.8
Y	42,815	416	3,329	6.8	642.4	642.4	642.5	0.1
Z	44,704	330	3,674	5.9	648.3	648.3	648.3	0.0
AA	45,454	403	3,556	6.1	650.1	650.1	650.1	0.0
AB	47,987	853	4,730	4.5	660.8	660.8	661.5	0.7
AC	50,635	230	1,315	8.6	668.0	668.0	668.9	0.9
AD	52,006	310	2,705	4.2	676.9	676.9	677.2	0.3
AE	55,556	230	1,083	7.8	688.8	688.8	689.4	0.6
AF	58,080	150	1,528	5.5	701.3	701.3	701.6	0.3
AG	61,305	274	1,455	2.3	718.8	718.8	719.7	0.9
AH	64,615	223	874	3.9	731.2	731.2	732.1	0.9
AI	67,561	112	348	6.6	741.8	741.8	742.4	0.6
AJ	69,554	250	747	3.1	749.9	749.9	750.3	0.4
AK	71,971	70	279	8.3	760.1	760.1	760.2	0.1
AL	73,181	195	1,644	1.9	768.8	768.8	768.7	-0.1
AM	74,326	165	683	3.0	769.7	769.7	770.2	0.5
AN	75,592	185	316	4.5	774.2	774.2	774.5	0.3
AO	77,625	225	526	2.7	780.5	780.5	781.2	0.7
AP	78,802	153	453	2.8	786.3	786.3	786.4	0.1
AQ	81,514	286	339	2.1	801.2	801.2	801.3	0.1
AR	82,037	79	188	3.8	804.2	804.2	804.7	0.5

<sup>1</sup>Stream distance in feet above confluence with West Fork Trinity River

<b>TABLE 7</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>SYCAMORE CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
West Fork Trinity River								
A	65,887	1,245	23,390	3.7	456.9	456.9	457.4	0.5
B	69,747	2,165	35,376	2.6	458.6	458.6	459.1	0.5
C <sup>2</sup>	74,572	2,737	37,248	2.3	459.9	459.9	460.5	0.6
D <sup>2</sup>	80,544	817	15,270	5.7	461.4	461.4	462.2	0.8
E	86,013	3,492	55,197	1.7	463.4	463.4	464.1	0.7
F	91,417	4,188	79,179	1.6	464.4	464.4	465.2	0.8
G	94,663	3,665	76,699	1.7	464.7	464.7	465.6	0.9
H <sup>2</sup>	99,694	2,801	63,961	1.4	465.2	465.2	466.1	0.9
I	106,481	2,960	61,905	2.1	465.3	465.3	466.2	0.9
J <sup>2</sup>	109,236	1,163	27,466	5.2	467.9	467.9	468.4	0.5
K	115,720	3,283	39,365	2.3	474.4	474.4	474.9	0.5
L	120,930	3,165	40,155	2.3	477.8	477.8	478.0	0.2
M	125,016	3,900	47,423	1.9	479.0	479.0	479.5	0.5
N	133,290	8,800	75,668	1.2	479.7	479.7	480.2	0.5
O	140,885	8,705	83,665	1.1	480.2	480.2	480.6	0.4
P	147,512	10,300	86,366	0.9	480.4	480.4	480.9	0.5
Q	150,374	6,607	32,479	2.4	482.1	482.1	482.3	0.2
R	155,714	3,436	28,631	2.7	486.7	486.7	487.3	0.6
S	160,878	2,600	25,028	3.1	489.7	489.7	490.1	0.4
T	165,243	3,237	31,286	2.7	491.8	491.8	492.4	0.6
U	171,900	2,920	28,052	3.0	494.7	494.7	495.5	0.8
V	180,455	1,381	22,117	3.7	501.9	501.9	502.3	0.4

<sup>1</sup>Stream distance in feet above confluence with Trinity River

<sup>2</sup>Split floodway in this location is derived from multiple hydraulic models

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**WEST FORK TRINITY RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WATER SURFACE ELEVATION		INCREASE
						WITHOUT FLOODWAY	WITH FLOODWAY	
						FEET (NAVD)		
Whites Branch								
A	3,230	453	2,909	4.6	566.2	557.8 <sup>2</sup>	558.7	0.9
B	4,270	330	2,753	4.8	566.2	562.0 <sup>2</sup>	562.9	0.9
C	6,380	400	2,794	4.8	567.4	567.4	568.2	0.8
D	7,230	410	2,830	4.9	570.0	570.0	570.8	0.8
E	8,350	310	2,795	5.0	573.9	573.9	574.5	0.6
F	9,420	400	2,845	4.9	577.0	577.0	577.8	0.8
G	11,020	390	2,493	5.6	584.1	584.1	584.3	0.2
H	13,240	350	2,270	6.2	591.3	591.3	591.4	0.1
I	14,870	350	2,708	5.2	597.6	597.6	598.3	0.7
J	17,560	600	2,997	4.7	605.9	605.9	606.4	0.5
K	20,270	440	2,921	4.6	615.1	615.1	615.7	0.6
L	23,195	750	3,243	4.2	623.4	623.4	623.8	0.4
M	28,870	430	2,643	4.1	641.8	641.8	642.0	0.2
N	31,010	330	2,250	3.3	647.0	647.0	647.3	0.3
O	32,605	203	631	5.1	658.3	658.3	658.5	0.2
P	34,070	120	677	4.0	665.8	665.8	666.5	0.7
	3,230	453	2,909	4.6	566.2	557.82	558.7	0.9

<sup>1</sup>Stream distance in feet above confluence with Big Fossil Creek

<sup>2</sup>Elevation computed without consideration of backwater effects from Big Fossil Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**WHITES BRANCH**

The area between the floodway and 1-percent-annual-chance floodplain boundaries is termed the floodway fringe. The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water-surface elevation (WSEL) of the base flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 2.

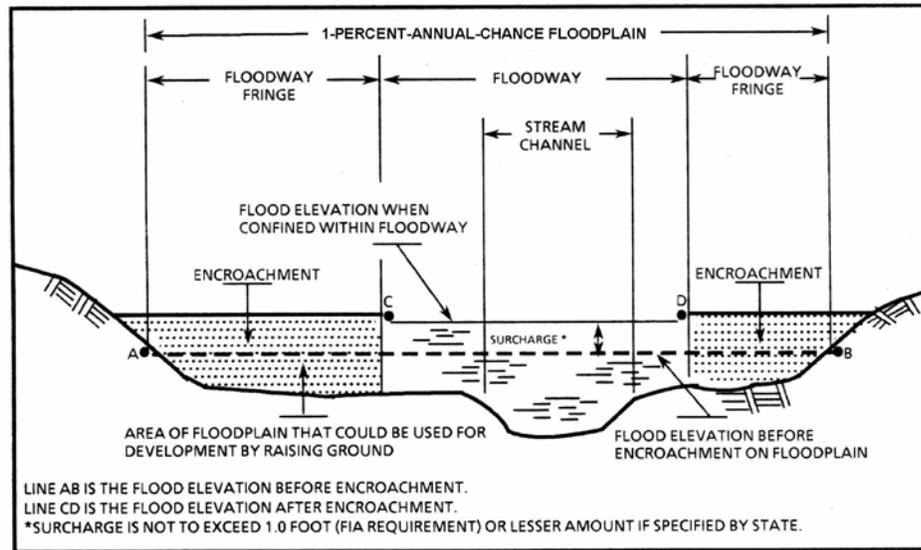


Figure 2. Floodway Schematic

In the case of redelineation, effort was made to maintain the prior effective regulatory floodway width and shape. However, due to updated topographic data, some modifications were made to contain the floodway within the limits of the 1-percent-annual-chance floodplain. Most modifications to the prior effective regulatory floodway boundaries are due to topographic changes that have occurred along the streams.

Floodways for the following flooding sources were not developed: Farris Branch, Farris Branch East, Mesquite Branch, Stream SC-7A, Timber Creek Diversion, a reach of Kirkwood Branch, Kirkwood Branch Tributary, and Hurricane Creek Tributary 1.

Within the City of Grapevine, for the upstream reach of Denton Creek, a floodway is not shown inside U.S. Government Property Fee and/or Flowage Easement Boundaries. Within the City of Richland Hills, the floodway for the sump adjacent to Big Fossil Creek has been determined to be coincident with the Government Property Fee and/or Flowage Easement Boundary and the 1-percent-annual-chance floodplain boundary and is not shown on the map.

The floodways at certified levees have been mapped to the landside toe of the levee for all floodways except along Big Fossil Creek and the Fort Worth Floodway system which includes portions of Clear Fork Trinity River and West Fork Trinity River. These floodways have been mapped in accordance with the standards outlined in Procedure Memorandum No. 52, which allows the computed location of the floodway limit be mapped instead of mapping the floodway to the landward toe of the levee. The widths shown in Table 6 “Floodway Data” are the widths from the model and do not represent the width of floodway to the landside toe.

## **5.0 INSURANCE APPLICATIONS**

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

### **Zone A**

Zone A is the flood insurance rate zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS report by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or depths are shown within this zone.

### **Zone AE**

Zone AE is the flood insurance rate zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS report by detailed methods. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

### **Zone AO**

Zone AO is the flood insurance rate zone that corresponds to areas of 1-percent-annual-chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the detailed hydraulic analyses are shown within this zone.

### **Zone X**

Zone X is the flood insurance rate zone that corresponds to areas outside the 0.2-percent-annual-chance floodplain, areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile (sq. mi.), and areas protected from the base flood by levees. No BFEs or depths are shown within this zone.

## **6.0 FLOOD INSURANCE RATE MAP**

The FIRM is designed for flood insurance and floodplain management applications.

For flood insurance applications, the map designates flood insurance rate zones as described in Section 5.0 and, in the 1-percent-annual-chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

For floodplain management applications, the map shows by tints, screens, and symbols, the 1- and 0.2-percent-annual-chance floodplains, floodways, and the locations of selected cross sections used in the hydraulic analyses and floodway computations.

The countywide FIRM presents flooding information for the entire geographic area of Tarrant County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the county identified as flood-prone. This countywide FIRM also includes flood-hazard information that was presented separately on Flood Boundary and Floodway

Maps (FBFMs), where applicable. Historical data relating to the maps prepared for each community prior to the initial countywide FIRM are presented in Table 7, “Community Map History.”

<b>COMMUNITY NAME</b>	<b>INITIAL IDENTIFICATION</b>	<b>FLOOD HAZARD BOUNDARY MAP REVISIONS DATE</b>	<b>FLOOD INSURANCE RATE MAP EFFECTIVE DATE</b>	<b>FLOOD INSURANCE RATE MAP REVISIONS DATE</b>
Arlington, City of	August 7, 1970	None	December 31, 1974	March 5, 1976 June 20, 1980 February 4, 1988
Azle, City of	March 8, 1974	None	October 15, 1985	None
Bedford, City of	December 28, 1973	March 12, 1976	July 18, 1977	April 17, 1984 March 18, 1987 June 4, 1990
Benbrook, City of	May 3, 1974	March 4, 1977	July 2, 1979	September 18, 1986 January 18, 1989 November 16, 1990
Blue Mound, City of	December 17, 1973	April 23, 1976	July 16, 1980	None

**TABLE 7**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
 AND INCORPORATED AREAS

**COMMUNITY MAP HISTORY**

<b>COMMUNITY NAME</b>	<b>INITIAL IDENTIFICATION</b>	<b>FLOOD HAZARD BOUNDARY MAP REVISIONS DATE</b>	<b>FLOOD INSURANCE RATE MAP EFFECTIVE DATE</b>	<b>FLOOD INSURANCE RATE MAP REVISIONS DATE</b>
Burleson, City of	November 2, 1973	None	December 31, 1974	July 1, 1974 April 16, 1976 June 24, 1977 December 3, 1987 September 27, 1991
Colleyville, City of	May 10, 1974	March 4, 1977	December 1, 1982	None
Crowley, City of	June 28, 1974	July 2, 1976 May 15, 1979	April 15, 1981	None
Dalworthington Gardens, City of	August 6, 1976	None	May 17, 1982	None
Edgecliff Village, Town of	December 28, 1973	February 4, 1977	August 19, 1986	None
Eules, City of	March 22, 1974	December 17, 1976	April 3, 1985	None
Everman, City of	December 17, 1973	August 27, 1976 May 31, 1977	September 17, 1980	None
Flower Mound, Town of	October 29, 1976	None	September 18, 1986	None

**TABLE 7**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
AND INCORPORATED AREAS

**COMMUNITY MAP HISTORY**

<b>COMMUNITY NAME</b>	<b>INITIAL IDENTIFICATION</b>	<b>FLOOD HAZARD BOUNDARY MAP REVISIONS DATE</b>	<b>FLOOD INSURANCE RATE MAP EFFECTIVE DATE</b>	<b>FLOOD INSURANCE RATE MAP REVISIONS DATE</b>
Forest Hill, City of	January 23, 1974	None	August 1, 1978	None
Fort Worth, City of	September 17, 1971	None	June 4, 1980	November 18, 1988
Grand Prairie, City of	July 6, 1973	None	July 1, 1974	September 10, 1976 April 1, 1982
Grapevine, City of	June 28, 1974	June 18, 1976	November 17, 1982	August 15, 1989
Haltom City, City of	June 28, 1974	None	February 1, 1978	January 6, 1988 June 4, 1990
Haslet, City of	November 1, 1974	None	October 15, 1985	None
Hurst, City of	June 14, 1974	May 14, 1976	October 15, 1985	None
Keller, City of	November 19, 1976	None	September 30, 1982	None
Kennedale, City of	February 1, 1974	January 14, 1977	November 15, 1984	None
Lake Worth, City of	November 19, 1976	None	January 6, 1993	None

**TABLE 7**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
 AND INCORPORATED AREAS

**COMMUNITY MAP HISTORY**

<b>COMMUNITY NAME</b>	<b>INITIAL IDENTIFICATION</b>	<b>FLOOD HAZARD BOUNDARY MAP REVISIONS DATE</b>	<b>FLOOD INSURANCE RATE MAP EFFECTIVE DATE</b>	<b>FLOOD INSURANCE RATE MAP REVISIONS DATE</b>
Lakeside, City of <sup>1</sup>	None	None	None	None
Mansfield, City of	February 22, 1974	May 10, 1977	December 18, 1985	September 28, 1990
North Richland Hills, City of	June 28, 1974	August 6, 1976	April 1, 1981	November 15, 1985 December 16, 1988
Pantego, Town of	August 13, 1976	None	July 16, 1980	None
Pelican Bay, City of <sup>1</sup>	None	None	None	None
Reno, Town of <sup>1</sup>	None	None	None	None
Richland Hills, City of	March 15, 1974	None	February 16, 1977	July 3, 1985
River Oaks, City of	December 28, 1973	February 6, 1976	June 19, 1985	None
Roanoke, City of <sup>1</sup>	September 5, 1975	None	None	None
Saginaw, City of	March 8, 1974	September 24, 1976	September 17, 1980	None

<sup>1</sup> This community did not have a FIRM prior to the first countywide FIRM for Tarrant County

**TABLE 7**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
 AND INCORPORATED AREAS

**COMMUNITY MAP HISTORY**

<b>COMMUNITY NAME</b>	<b>INITIAL IDENTIFICATION</b>	<b>FLOOD HAZARD BOUNDARY MAP REVISIONS DATE</b>	<b>FLOOD INSURANCE RATE MAP EFFECTIVE DATE</b>	<b>FLOOD INSURANCE RATE MAP REVISIONS DATE</b>
Sansom Park, City of <sup>1</sup>	December 10, 1976	None	None	None
Southlake, City of	February 15, 1974	June 7, 1977	July 5, 1982	None
Trophy Club, Town of	May 27, 1977	None	August 3, 1989	None
Watauga, City of	March 8, 1974	June 4, 1976	June 1, 1982	August 15, 1989
Westlake, Town of <sup>1</sup>	December 10, 1976	None	None	None
Westover Hills, Town of	August 30, 1974	December 19, 1975	June 5, 1985	None
Westworth Village, City of	March 8, 1974	June 25, 1976	June 3, 1986	None
White Settlement, City of	May 24, 1974	September 3, 1976	July 17, 1986	None
Tarrant County, Unincorporated Areas	February 7, 1975	July 5, 1977	August 4, 1987	None

<sup>1</sup> This community did not have a FIRM prior to the first countywide FIRM for Tarrant County

**TABLE 7**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**TARRANT COUNTY, TX**  
 AND INCORPORATED AREAS

**COMMUNITY MAP HISTORY**

## **7.0 OTHER STUDIES**

The preparation of updated FISs is on-going for the Incorporated and Unincorporated Areas of Dallas and Johnson Counties, Texas. The Tarrant County Study is in agreement with this study and current FISs for other adjacent counties.

This is a multi-volume FIS. Each volume may be revised separately, in which case it supersedes the previously printed volume. Users should refer to the Table of Contents in Volume 1 for the current effective date of each volume; volumes bearing these dates contain the most up-to-date flood hazard data. This FIS report either supersedes or is compatible with all previous studies published on streams studied in this report and should be considered authoritative for the purposes of the NFIP.

## **8.0 LOCATION OF DATA**

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting FEMA Region VI, Federal Insurance and Mitigation Division, 800 North Loop 288, Denton, Texas 76209.

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