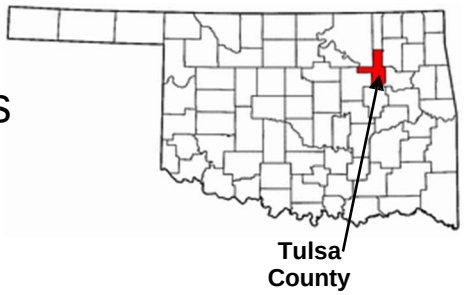
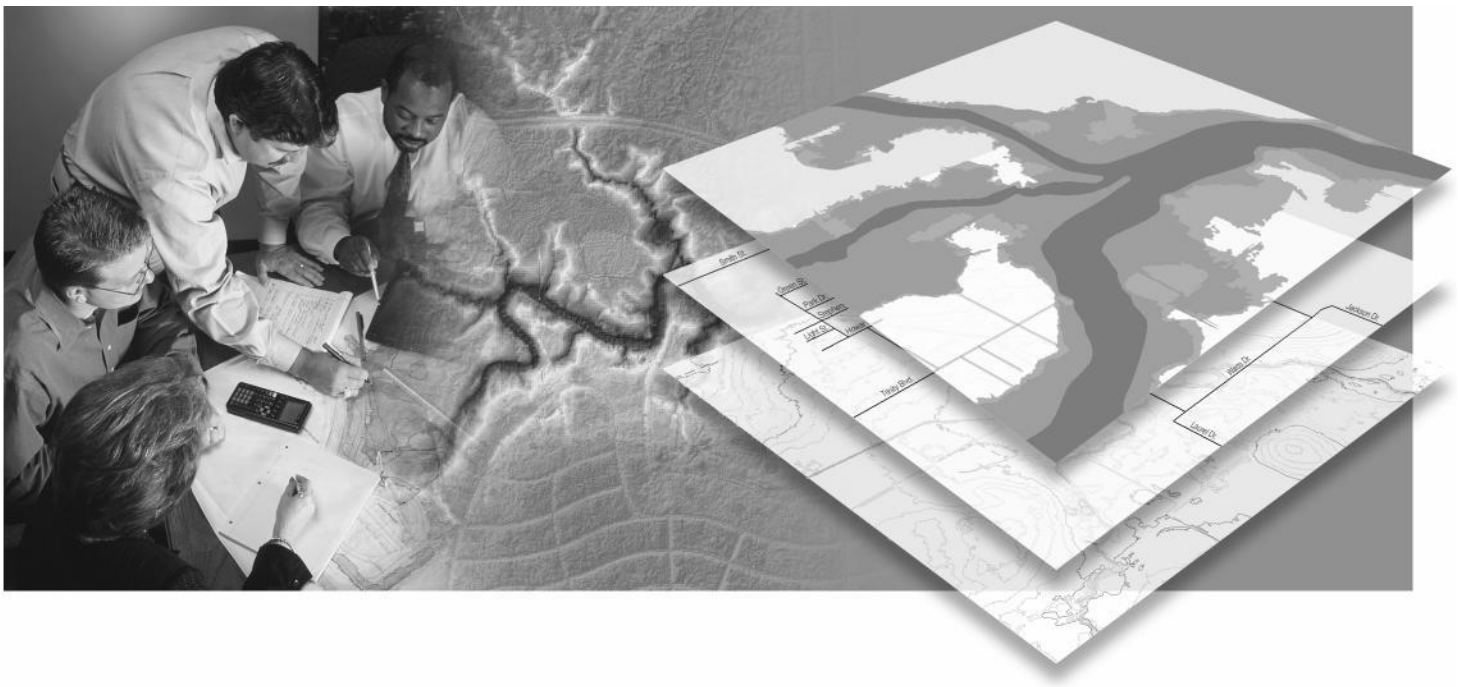
Flood Insurance Study

Tulsa County, Oklahoma and Incorporated Areas

VOLUME 2 of 7





COMMUNITY NAME	COMMUNITY NO.
Bixby, City of	400207
Broken Arrow, City of	400236
Collinsville, City of	400360
Glenpool, City of	400208
Jenks, City of	400209
Liberty, Town of[1]	400547
Lotsee, Village of [2]	400546
Owasso, City of	400210
Sand Springs, City of	400211
Sapulpa, City of	400053
Skiatook, Town of	400212
Sperry, Town of	400213
Tulsa, City of	405381
Tulsa County (Unincorporated Areas)	400462

[1] Disincorporated into the Unincorporated Areas of Tulsa County

[2] No Special Flood Hazard Areas Identified

Revised: May 2, 2019
FLOOD INSURANCE STUDY NUMBER
40143CV002E

FEMA

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.

Users should refer to Section 10.0, Revision Description, for further information. Section 10.0 is intended to present the most up-to-date information for specific portions of this FIS report. Therefore, users of the FIS report should be aware that the information presented in Section 10.0 supersedes information in Section 1.0 through 9.0 of this FIS report.

Initial Countywide FIS Effective Date: September 22, 1999.

First Revised Countywide FIS Revision Date: Map revised September 7, 2001 to change base flood elevations, to change special flood hazard areas, to reflect updated topographic information, and to change floodway.

Second Revised Countywide FIS Revision Date: Map revised April 16, 2003 to update corporate limits, to change Base Flood Elevations and Special Flood Hazard Areas, to revise vertical datum, to update roads and road names, to incorporate previously issued Letters of Map Revision, and to reflect updated topographic information.

Third Revised Countywide FIS Revision Date: Map revised August 3, 2009 to update corporate limits, to change Base Flood Elevations and Special Flood Hazard Areas, to revise vertical datum, to update roads and road names, to incorporate previously issued Letters of Map Revision, and to reflect updated topographic information.

Fourth Revised Countywide FIS Revision Date: Map revised October 16, 2012 to change Special Flood Hazard Areas, to reflect updated topographic information, and to incorporate previously issued Letter of Map Revision.

Fifth Revised Countywide FIS Revision Date: Map revised September 30, 2016 to change Base Flood Elevations and Special Flood Hazard Areas, and to incorporate previously issued Letters of Map Revision.

Sixth Revised Countywide FIS Revision Date: Map revised May 2, 2019 to change Special Flood Hazard Areas to reflect new detailed modeling of Joe Creek and its tributaries and to incorporate previously issued Letters of Map Revision.

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VOLUME 7 (CONTINUED)
EXHIBITS (Continued)

APPENDIX A

Table 9: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Bixby, City of	400207	11110101	40143C0369L 40143C0388L 40143C0429L 40143C0432L 40143C0433L 40143C0434L 40143C0440L 40143C0445L 40143C0451L 40143C0453L 40143C0465L 40143C0530K	
Broken Arrow, City of	400236	11110101 11070105 11070107	40143C0377L 40143C0378L 40143C0379L 40143C0385M 40143C0386L 40143C0387L 40143C0388L 40143C0389L 40143C0391L 40143C0392L 40143C0393M 40143C0394M 40143C0451L 40143C0452L 40143C0454L 40143C0456M 40143C0457M 40143C0458L 40143C0459L	
Collinsville, City of	400360	11070106 11070107	40143C0045K 40143C0065K 40143C0070K 40143C0110L 40143C0130K 40143C0135K	
Glenpool, City of	400208	11110101	40143C0407L 40143C0409K 40143C0420K 40143C0426L 40143C0428L 40143C0429L	

Table 9 Listing of NFIP Jurisdictions, Continued

Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Glenpool, City of (Continued)	400208	11110101	40143C0440L 40143C0485K	
Jenks, City of	400209	11110101	40143C0342L 40143C0344L 40143C0361L 40143C0362L 40143C0363L 40143C0364L 40143C0407L 40143C0426L 40143C0427L 40143C0428L 40143C0429L 40143C0431L 40143C0433L	
Liberty, Town of	400547	11110101	40143C0440L 40143C0485K 40143C0505K 40143C0510K	
Lotsee, Village of[1]	400546	11110101	40143C0190K	
Owasso, City of	400210	11070106 11070107	40143C0110L 40143C0120L 40143C0130K 40143C0135K 40143C0136K 40143C0137K 40143C0138L 40143C0139L 40143C0145K	
Sand Springs, City of	400211	11110101 11070105	40143C0190K 40143C0192K 40143C0194K 40143C0211L 40143C0212L 40143C0213L 40143C0214L 40143C0305K 40143C0307K 40143C0309K 40143C0326L 40143C0327L 40143C0328K[2] 40143C0329K[2]	
Sapulpa, City of	400053	11110101	40143C0333L	

Table 9 Listing of NFIP Jurisdictions, Continued

Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Skiatook, Town of	400212	11070106 11070107	40143C0040K 40143C0045K 40143C0085K 40143C0105L 40143C0110L	
Sperry, Town of	400213	11070107	40143C0115L	
Tulsa, City of	405381	11110101 11070107 11070105	40143C0210L 40143C0212L 40143C0214L 40143C0220L 40143C0226L 40143C0227L 40143C0228L 40143C0229L 40143C0231L 40143C0232L 40143C0233L 40143C0234L 40143C0240L 40143C0241L 40143C0242L 40143C0243L 40143C0244L 40143C0251L 40143C0252L 40143C0253L 40143C0254L 40143C0261L 40143C0262L 40143C0263L 40143C0264L 40143C0270M 40143C0331L 40143C0332L 40143C0333L 40143C0334L 40143C0342L 40143C0351L 40143C0352M 40143C0353L 40143C0354M 40143C0356M 40143C0357L 40143C0358M 40143C0359M	

Table 9 Listing of NFIP Jurisdictions, Continued

Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Tulsa, City of (Continued)	405381	11110101 11070107 11070105	40143C0361L 40143C0362L 40143C0364L 40143C0366L 40143C0367L 40143C0368L 40143C0369L 40143C0376L 40143C0377L 40143C0378L 40143C0379L 40143C0385M 40143C0386L 40143C0388L 40143C0427L 40143C0431L 40143C0432L 40143C0434L	
Tulsa County (Unincorporated Areas)	400462	11110101 11100303 11070106 11050003 11060006 11070105 11070107	40143C0020K 40143C0040K 40143C0045K 40143C0065K 40143C0070K 40143C0085K 40143C0095L 40143C0105L 40143C0110L 40143C0115L 40143C0120L 40143C0130K 40143C0135K 40143C0136K 40143C0137K 40143C0138L 40143C0139L 40143C0145K 40143C0170K 40143C0190K 40143C0191K 40143C0192K 40143C0193K 40143C0194K 40143C0210L 40143C0211L 40143C0212L 40143C0213L 40143C0214L 40143C0220L	

Table 9 Listing of NFIP Jurisdictions, Continued

Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Tulsa County (Unincorporated Areas) (Continued)	400462	11110101 11100303 11070106 11050003 11060006 11070105 11070107	40143C0226L 40143C0227L 40143C0228L 40143C0231L 40143C0232L 40143C0233L 40143C0234L 40143C0240L 40143C0241L 40143C0242L 40143C0243L 40143C0251L 40143C0252L 40143C0253L 40143C0260K[2] 40143C0261L 40143C0285K 40143C0305K 40143C0306K 40143C0307K 40143C0308K 40143C0309K 40143C0326L 40143C0327L 40143C0328K[2] 40143C0329K[2] 40143C0331L 40143C0332L 40143C0333L 40143C0334L 40143C0342L 40143C0344L 40143C0351L 40143C0362L 40143C0363L 40143C0364L 40143C0389L 40143C0392L 40143C0394M 40143C0407L 40143C0409K 40143C0420K 40143C0426L 40143C0427L 40143C0428L 40143C0429L 40143C0431L	

Table 9 Listing of NFIP Jurisdictions, Continued

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Community	CID	HUC-8 Sub Basins	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Tulsa County (Unincorporated Areas) (Continued)	400462	11110101 11100303 11070106 11050003 11060006 11070105 11070107	40143C0432L 40143C0433L 40143C0434L 40143C0440L 40143C0445L 40143C0451L 40143C0452L 40143C0453L 40143C0454L 40143C0457M 40143C0458L 40143C0459L 40143C0465L 40143C0470K 40143C0485K 40143C0505K 40143C0510K 40143C0530K	

[1] No Special Flood Hazard Areas Identified
[2] Panel Not Printed

Table 10: Map Repositories

Community	Address	City	State	Zip Code
Bixby, City of	City Hall 116 West Needles Street	Bixby	OK	74008
Broken Arrow, City of	Operations Building 485 North Poplar Avenue	Broken Arrow	OK	74012
Collinsville, City of	City Hall 106 North 12th Street	Collinsville	OK	74021
Glenpool, City of	City Hall 12205 South Yukon Avenue	Glenpool	OK	74033
Jenks, City of	City Hall 211 North Elm Street	Jenks	OK	74037
Liberty, Town of	Town Hall 6816 East 206th Street	Liberty	OK	74047
Lotsee, Village of	Flying G Ranch 19310 West Highway 51	Lotsee	OK	74063

Table 10 Map Repositories, Continued

Community	Address	City	State	Zip Code
Owasso, City of	Public Works 301 West 2nd Avenue	Owasso	OK	74055
Sand Springs, City of	Public Works Building 13101 West 46th Street	Sand Springs	OK	74063
Sapulpa, City of	City Hall 425 East Dewey	Sapulpa	OK	74067
Skiatook, Town of	Municipal Building 100 North Broadway	Skiatook	OK	74070
Sperry, Town of	Town hall 115 North Cincinnati Street	Sperry	OK	74103
Tulsa County, Unincorporated Areas	County Annex Building 633 West 3rd Street Room140	Tulsa	OK	74127
Tulsa, City of	Stormwater Design Office 2317 South Jackson Street, Suite 302	Tulsa	OK	74103

Table 11 Community Map History

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Bixby, City of	06/28/1974	06/28/1974	07/19/1977	09/28/1979	10/16/2012 08/03/2009 04/16/2003 09/22/1999
Broken Arrow, City of	10/18/1977	10/18/1977	02/26/1980	08/17/1981	09/30/2016 04/17/2012 08/03/2009 04/16/2003 09/22/1999 09/05/1984
Collinsville, City of	02/25/1977	02/25/1977	N/A	06/02/1981	10/16/2012 04/03/2012 08/03/2009 09/22/1999
Glenpool, City of	06/28/1974	06/28/1974	06/20/1978 05/28/1976	03/02/1981	10/16/2012 08/03/2009 09/22/1999 04/15/1992
Jenks, City of	01/09/1974	01/09/1974	05/21/1976	02/17/1982	10/16/2012 09/22/1999
Liberty, Town of [1]	08/23/1977	08/23/1977	N/A	09/16/1982	08/03/2009 09/22/1999

Table 11 Community Map History, Continued

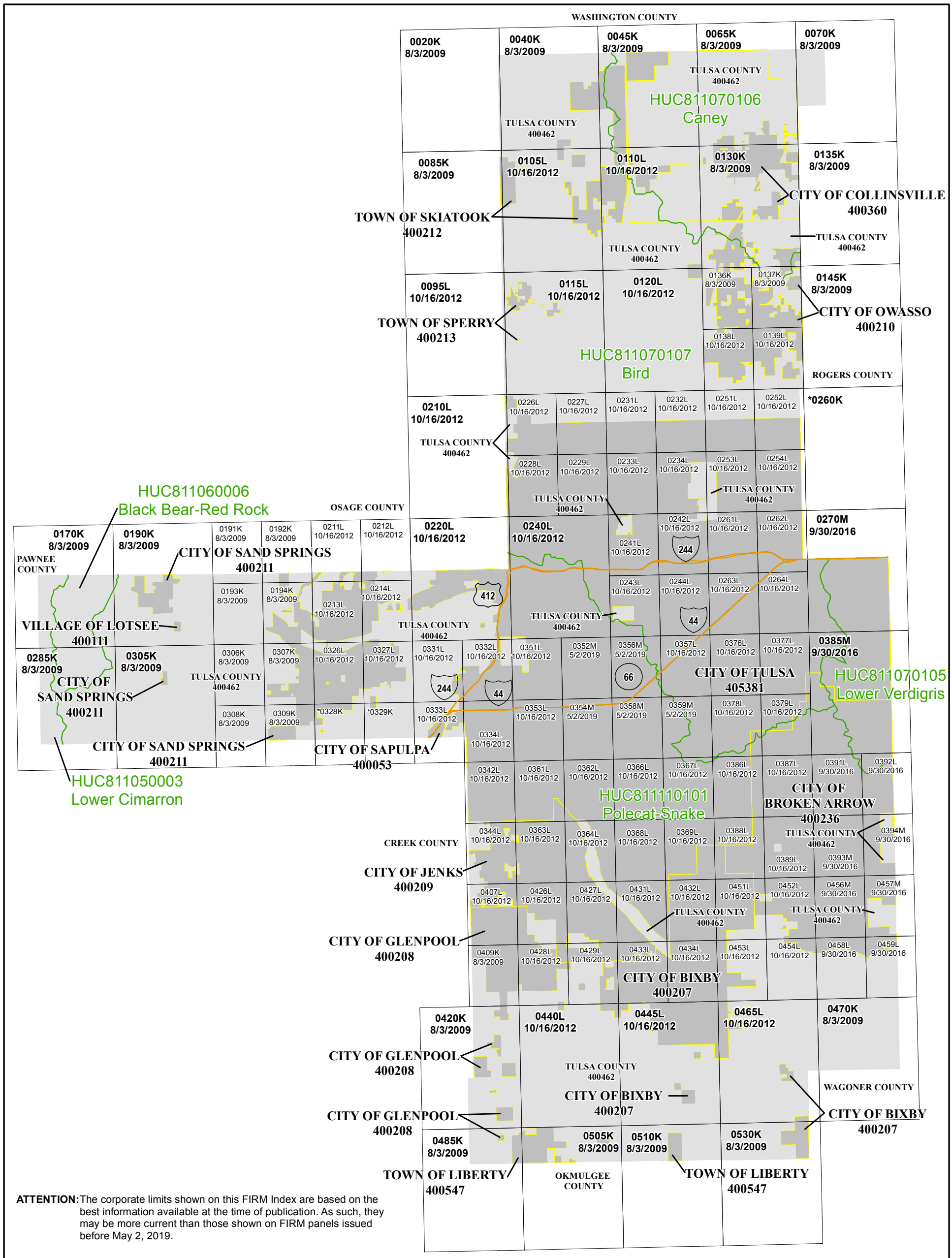
Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Lotsee, Village of [2]	09/22/1999	N/A	N/A	09/22/1999	08/03/2009
Owasso, City of	01/04/1974	01/04/1974	08/09/1977 01/14/1977	07/02/1981	10/16/2012 04/03/2012 08/03/2009 04/16/2003 09/22/1999 04/15/1992
Sand Springs, City of	07/26/1974	07/26/1974	04/22/1977	06/15/1981	10/16/2012 08/03/2009 04/02/2008 09/22/1999 07/19/1993
Sapulpa, City of	05/11/1973	05/11/1973	N/A	12/01/1977	10/16/2012 08/03/2009 05/18/2009 09/21/2001 04/26/1983
Skiatook, Town of	06/07/1974	06/07/1974	08/09/1977 06/04/1976	06/16/1980	10/16/2012 08/03/2009 09/22/1999
Sperry, Town of	12/07/1973	12/07/1973	01/09/1979 06/25/1976	06/16/1981	10/16/2012 08/03/2009 09/22/1999
Tulsa, City of	08/17/1971	N/A	N/A	08/17/1971	05/02/2019 10/16/2012 08/03/2009 04/16/2003 09/07/2001 09/22/1999 11/02/1995 11/20/1991 04/16/1991 11/03/1989 02/05/1986 02/01/1985 10/15/1982 08/14/1979 06/30/1976 05/28/1975

Table 11 Community Map History, Continued

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Tulsa County, Unincorporated Areas	08/23/1977	08/23/1977	N/A	09/16/1982	09/30/2016 10/16/2012 08/03/2009 04/16/2003 09/22/1999 03/16/1995 05/04/1992 06/05/1989

[1] Disincorporated into the Unincorporated Areas of Tulsa County
[2] No Special Flood Hazard Areas Identified

Figure 2: FIRM Panel Index



ATTENTION: The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels issued before May 2, 2019.

1 inch = 17,592 feet 1:211,100

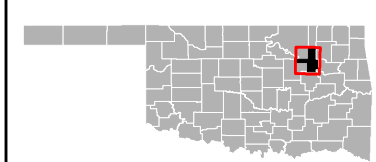
0 9,500 19,000 38,000 Feet

Map Projection:
State Plane Lambert Conformal Conic, Oklahoma North
FIPS 3501; North American Datum 1983

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
HTTP://MSC.FEMA.GOV

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

*PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP PANEL INDEX

TULSA COUNTY, OKLAHOMA and Incorporated Areas

PANELS PRINTED: 0020, 0040, 0045, 0065, 0070, 0085, 0095, 0105, 0110, 0115, 0120, 0130, 0135, 0136, 0137, 0138, 0139, 0145, 0170, 0190, 0191,0192, 0193, 0194, 0210, 0211, 0212, 0213, 0214, 0220, 0226, 0227, 0228,0229, 0231, 0232, 0233, 0234, 0240, 0241,0242, 0243, 0244, 0251, 0252, 0253, 0254, 0261, 0262, 0263, 0264, 0270, 0285, 0305, 0306, 0307, 0308,0309, 0326, 0327, 0331, 0332, 0333, 0334, 0342, 0344,0351, 0352, 0353, 0354, 0356, 0357, 0358, 0359, 0361, 0362, 0363, 0364, 0366, 0367, 0368, 0369, 0376, 0377, 0378, 0379, 0385, 0386, 0387, 0388, 0389, 0391, 0392,0393, 0394, 0407, 0409, 0420, 0426, 0427, 0428, 0429, 0431, 0432, 0433, 0434, 0440, 0445, 0451, 0452, 0453, 0454, 0456, 0457, 0458, 0459, 0465, 0470, 0485, 0505, 0510, 0530.

FEMA

MAP NUMBER
40143CIND0E

MAP REVISED
MAY 2, 2019

Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 3 contains the full list of these notes.

Figure 3. FIRM Notes to Users

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates, refer to the Notice to Flood Insurance Study Users and Table 5 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations and/or Transect Data tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

FLOODWAY INFORMATION: Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to “Section 2.4: Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

PROJECTION INFORMATION: The projection used in the preparation of the map was State Plane Lambert Conformal Conic, Oklahoma North Zone 3501. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed on the FIRM Index.

BASE MAP INFORMATION: Base map information shown on this FIRM was derived from digital orthophotography collected by the U.S. Department of Agriculture Farm Service Agency. This imagery was flown in 2012 and 2015, 2015 was produced with a 1-meter ground sample distance.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

NOTES FOR FIRM INDEX

REVISIONS TO INDEX: As new studies are performed and FIRM panels are updated within Tulsa County, OK, corresponding revisions to the FIRM Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to the FIRM Index to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Tulsa County, OK, effective May 2, 2019.

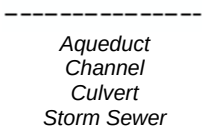
FLOOD RISK REPORT: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

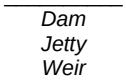
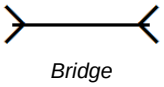
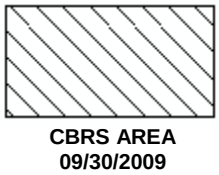
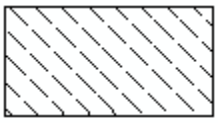
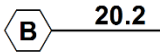
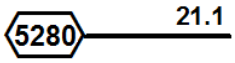
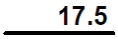
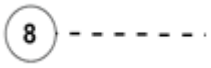
Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 5 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Tulsa County.

Figure 4: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*

	Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)
Zone A	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
Zone AE	The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone.
Zone AH	The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
Zone AO	The flood insurance rate zone that corresponds to the areas of 1% 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 hydraulic analyses are shown within this zone.
Zone AR	The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
Zone A99	The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
Zone V	The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.

Zone VE	Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.
	Regulatory Floodway determined in Zone AE.
OTHER AREAS OF FLOOD HAZARD	
	Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.
	Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.
	Area with Reduced Flood Risk due to Levee: Areas where an accredited levee, dike, or other flood control structure has reduced the flood risk from the 1% annual chance flood.
	Area with Flood Risk due to Levee: Areas where a non-accredited levee, dike, or other flood control structure is shown as providing protection to less than the 1% annual chance flood.
OTHER AREAS	
	Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.
	Unshaded Zone X: Areas of minimal flood hazard.
FLOOD HAZARD AND OTHER BOUNDARY LINES	
(ortho) (vector)	Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)
	Limit of Study
	Jurisdiction Boundary
	Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet
GENERAL STRUCTURES	
	Channel, Culvert, Aqueduct, or Storm Sewer

	Dam, Jetty, Weir
	Levee, Dike, or Floodwall
	Bridge
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): *CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.*	
	Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.
	Otherwise Protected Area
REFERENCE MARKERS	
	River mile Markers
CROSS SECTION & TRANSECT INFORMATION	
	Lettered Cross Section with Regulatory Water Surface Elevation (BFE)
	Numbered Cross Section with Regulatory Water Surface Elevation (BFE)
	Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)
	Coastal Transect
	Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.
	Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.

513	Base Flood Elevation Line
ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity
BASE MAP FEATURES	
Missouri Creek	River, Stream or Other Hydrographic Feature
234	Interstate Highway
234	U.S. Highway
234	State Highway
234	County Highway
MAPLE LANE	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
RAILROAD	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
+	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
$^{42}76^{000m}$E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16’ 52.5”	Corner Coordinates (Latitude, Longitude)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Adams Creek								
AH	1,700	108	977	6.9	665	665.0	665.8	0.8
AI	4,800	280	792	3.8	675.4	675.4	675.7	0.3
AJ	9,250	294	773	4.8	687.4	687.4	688.4	0.8

[1]Feet above county line

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ADAMS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE (FEET)
Adams Creek Tributary E								
A	660	145	713	4.9	666.0	666.0	666.0	0.0
B	1,564	92	561	6.2	669.0	669.0	670.0	1.0
C	2,360	112	519	6.7	674.9	674.9	675.3	0.4
D	5,449	482	4,941	1.8	682.5	682.5	682.5	0.0
E	5,614	732	2,560	1.0	684.8	684.8	685.8	1.0
F	6,348	291	713	3.4	685.2	685.2	686.0	0.8
G	8,427	67	275	6.8	693.0	693.0	693.6	0.6
H	9,656	53	221	8.4	700.1	700.1	700.2	0.1
I	11,500	170	575	3.2	699.0	699.0	700.0	1.0

[1]Feet above confluence with Adams Creek

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ADAMS CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Alsuma Creek								
A	3,677	54	313	4.3	670.9	670.9	670.9	0.0
B	4,017	54	307	4.4	671.0	671.0	671.0	0.0
C	4,285	36	178	7.6	671.0	671.0	671.0	0.0
D	4,945	33	147	9.2	671.1	671.1	671.1	0.0
E	5,175	49	245	5.5	676.7	676.7	677.1	0.4
F	5,485	30	190	7.2	676.7	676.7	676.9	0.2
G	5,865	31	126	10.7	676.6	676.6	676.7	0.1

[1]Feet above confluence with Mingo Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Anderson Creek								
A	485	125	1,071	9.1	654.7	654.7	655.6	0.9
B	1,145	127	1,425	6.8	659.8	659.8	660.2	0.4
C	1,940	233	2,580	3.8	662.1	662.1	663.0	0.9
D	2,690	195	1,791	5.5	663.5	663.5	664.4	0.9
E	3,390	205	1,894	5.2	666.8	666.8	667.3	0.5
F	3,990	190	1,705	5.7	668.7	668.7	669.5	0.8
G	4,710	185	1,517	6.4	671.8	671.8	672.2	0.4
H	5,925	195	1,915	5.1	675.1	675.1	675.9	0.8
I	7,055	165	1,451	6.7	681.4	681.4	681.4	0.0
J	7,900	165	2,063	4.7	685.3	685.3	685.3	0.0
K	8,730	175	1,733	5.6	688.0	688.0	688.1	0.1
L	9,795	235	4,737	2.1	702.0	702.0	702.9	0.9
M	10,500	235	3,953	2.5	702.2	702.2	703.2	1.0
N	11,215	250	2,761	3.5	702.8	702.8	703.7	0.9
O	12,280	575	4,168	2.3	710.8	710.8	711.8	1.0
P	12,830	450	3,298	3.0	712.1	712.1	713.0	0.9
Q	13,410	507	3,044	3.2	713.5	713.5	714.3	0.8
R	14,400	616	4,276	2.3	714.8	714.8	715.7	0.9
S	15,325	570	3,317	2.9	716.1	716.1	717.0	0.9
T	15,980	588	3,244	2.5	717.6	717.6	718.2	0.6

[1]Feet above confluence with Fisher Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ANDERSON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Anderson Creek (cont)								
U	16,710	565	2,682	3.1	719.2	719.2	719.8	0.6
V	17,670	575	2,084	4.0	722.8	722.8	723.2	0.4
W	18,440	525	2,055	4.0	726.3	726.3	726.8	0.5
X	20,725	528	2,620	2.7	731.7	731.7	732.1	0.4
Y	22,040	377	1,846	3.9	734.8	734.8	736.1	1.3
AA	22,870	367	2,590	2.4	737.2	737.2	738.2	1.0
AB	23,560	190	1,039	3.9	738.9	738.9	739.9	1.0
Z	24,230	115	759	5.4	741.9	741.9	742.2	0.3
AA	24,945	200	1,253	3.2	744.7	744.7	745.0	0.3
AB	20,725	528	2,620	2.7	731.7	731.7	732.1	0.4
AC	22,040	377	1,846	3.9	734.8	734.8	736.1	1.3

[1]Feet above confluence with Fisher Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Anderson Creek Tributary								
A	700	116	383	5.6	736.9	736.9	737.0	0.1
B	2,440	82	479	4.5	748.4	748.4	749.3	0.9
C	3,000	116	590	3.7	750.5	750.5	751.3	0.8
D	4,150	135	693	3.1	757.0	757.0	758.0	1.0
E	5,050	118	658	3.3	760.2	760.2	760.7	0.5
F	5,950	100	419	5.2	764.8	764.8	765.5	0.7
G	7,000	66	295	3.3	773.5	773.5	774.1	0.6
H	7,585	70	209	4.7	777.0	777.0	777.5	0.5
I	7,990	105	252	3.9	781.3	781.3	781.4	0.1
J	8,477	94	192	5.1	787.0	787.0	787.8	0.8

[1]Feet above confluence with Anderson Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ANDERSON CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Anderson Creek Tributary A-1								
A	20	20	83	6.2	767.9	767.9	768.9	1.0
B	330	35	123	4.2	773.1	773.1	773.1	0.0
C	665	35	97	5.3	775.3	775.3	775.7	0.4
D	1,000	32	87	5.9	780.0	780.0	780.4	0.4
E	1,310	36	108	4.7	784.7	784.7	785.3	0.6

[1]Feet above confluence with Anderson Creek Tributary.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ANDERSON CREEK TRIBUTARY A-1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Arkansas River								
A	211,087	2,543	36,349	5.6	581.5	581.5	582.0	0.5
B	218,866	2,290	35,339	5.8	583.3	583.3	583.8	0.5
C	226,409	2,196	33,859	6.1	586.2	586.2	586.6	0.4
D	231,267	2,186	37,193	5.5	588.1	588.1	588.6	0.5
E	238,413	3,773	47,142	4.4	591.4	591.4	592.2	0.8
F	246,490	1,580	26,016	7.9	594.3	594.3	594.8	0.5
G	259,140	2,193	42,773	4.8	598.6	598.6	599.6	1.0
H	265,972	1,898	38,741	5.3	601.7	601.7	602.4	0.7
I	273,377	1,837	41,986	4.9	604.9	604.9	605.7	0.8
J	279,421	1,991	40,189	5.1	606.3	606.3	606.9	0.6
K	284,397	2,198	39,445	5.2	607.8	607.8	608.3	0.5
L	291,605	1,822	38,526	5.3	610.2	610.2	610.6	0.4
M	293,824	2,137	40,318	5.1	610.9	610.9	611.2	0.3
N	297,138	2,492	40,236	5.1	611.8	611.8	612.1	0.3
O	298,677	1,625	31,984	6.4	612.2	612.2	612.6	0.4
P	300,185	1,330	28,165	7.3	612.8	612.8	613.1	0.3
Q	303,769	1,867	38,078	5.4	614.4	614.4	614.7	0.3
R	306,246	1,791	36,325	5.6	615.0	615.0	615.3	0.3
S	311,317	2,300	37,283	5.5	616.3	616.3	616.5	0.2
T	315,641	1,813	33,467	6.1	618.1	618.1	618.3	0.2
U	318,624	1,752	32,511	6.3	619.0	619.0	619.2	0.2
V	322,621	1,710	31,832	6.4	621.5	621.5	621.6	0.1

[1]Feet above river mile 457.7

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ARKANSAS RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Arkansas River (cont)								
W	326,058	1,770	31,448	6.5	623.1	623.1	623.2	0.1
X	328,244	2,012	38,071	5.4	624.4	624.4	624.5	0.1
Y	333,876	1,605	29,181	7.0	626.1	626.1	626.2	0.1
Z	337,952	1,481	24,572	8.3	627.8	627.8	627.9	0.1
AA	339,414	1,419	25,990	7.9	629.3	629.3	629.4	0.1
AB	340,498	1,431	23,628	8.7	631.1	631.1	631.2	0.1
AC	346,270	1,341	18,877	10.9	633.6	633.6	633.6	0.0
AD	352,699	1,672	28,781	7.1	637.8	637.8	637.8	0.0
AE	362,638	1,286	25,391	8.1	641.1	641.1	641.1	0.0
AF	367,623	1,487	29,907	6.9	643.3	643.3	643.4	0.1
AG	371,146	1,432	29,501	7.0	644.4	644.4	644.5	0.1
AH	375,071	1,253	25,193	8.1	645.8	645.8	645.9	0.1
AI	380,048	2,045	38,607	5.3	648.3	648.3	648.4	0.1
AJ	383,534	1,758	32,692	6.3	649.0	649.0	649.1	0.1
AK	386,128	1,720	33,472	6.1	649.9	649.9	650.0	0.1
AL	391,734	1,993	36,052	5.7	651.4	651.4	651.5	0.1
AM	397,272	1,500	29,316	7.0	652.7	652.7	652.8	0.1
AN	401,300	1,992	38,492	5.3	654.3	654.3	654.4	0.1
AO	405,251	2,289	44,344	4.6	655.1	655.1	655.2	0.1
AP	409,051	2,252	37,880	5.4	656.4	656.4	656.5	0.1
AQ	411,860	2,414	43,404	4.7	657.3	657.3	657.4	0.1

[1]Feet above river mile 457.7

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Arkansas River (cont)								
AR	415,552	1,968	36,166	5.7	658.2	658.2	658.3	0.1
AS	420,001	970	17,296	11.9	659.8	659.8	659.9	0.1
AT	425,169	1,131	27,291	7.5	664.8	664.8	664.9	0.1
AU	429,064	1,095	28,902	7.1	665.5	665.5	665.9	0.4

[1]Feet above river mile 457.7

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

FLOODWAY DATA

ARKANSAS RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Audubon Creek								
A	720	83	731	8.2	637.2	637.2[2]	637.2	0.0
B	1,350	64	413	14.5	637.2	637.0[2]	637.0	0.0
C	2,500	64	408	14.2	640.6	640.6	640.6	0.0
D	4,500	61	352	13.7	648.0	648.0	648.0	0.0
E	8,480	183	889	4.2	662.9	662.9	662.9	0.0
F	9,820	78	542	6.2	670.2	670.2	670.2	0.0

[1] Feet above confluence with Mingo Creek.
[2] Water-surface elevations computed without consideration of backwater effects from Mingo Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

AUDUBON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bell Creek								
A	299	61	649	10.2	644.2	644.2	645.0	0.8
B	3,001	76	510	8.0	651.6	651.6	652.2	0.6
C	4,132	40	326	7.7	656.0	656.0	656.4	0.4
D	4,999	48	273	9.2	660.1	660.1	660.2	0.1
E	5,960	33	439	6.2	668.5	668.5	668.6	0.1

[1]Feet above confluence with Mingo Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BELL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bell Creek Tributary								
A	577	68	496	2.6	655.5	655.5	656.4	0.9
B	1,264	67	450	2.3	655.8	655.8	656.7	0.9
C	2,386	130	1609	1.3	663.6	663.3	663.6	0.0
D	3,350	35	201	4.7	664.6	664.6	664.8	0.2
E	5,547	81	275	0.3	674.7	674.7	674.7	0.0
F	5,869	150	766	1.3	674.7	674.7	674.7	0.0

[1]Feet above confluence with Bell Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BELL CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Berryhill Creek								
A	775	100	1,003	9.6	636.9	636.9	637.0	0.1
B	1,655	110	1,361	7.1	639.3	639.3	639.6	0.3
C	3,077	154	1,241	7.8	646.5	646.5	646.5	0.0
D	4,272	318	2,077	4.7	649.1	649.1	649.6	0.5
E	4,888	559	1,621	6.0	651.1	651.1	651.0	-0.1
F	5,566	338	2,002	4.7	653.2	653.2	653.4	0.2
G	6,349	431	2,030	4.6	654.8	654.8	655.3	0.5
H	7,014	282	1,368	6.8	656.3	656.3	656.9	0.6
I	7,709	403	1,810	4.8	658.2	658.2	659.2	1.0
J	9,346	523	2,643	1.2	666.3	666.3	666.7	0.4
K	9,945	240	695	4.7	666.3	666.3	666.8	0.5
L	10,748	107	454	6.1	671.3	671.3	671.4	0.1
M	11,344	97	457	6.1	673.4	673.4	673.8	0.4
N	11,924	109	440	4.8	675.4	675.4	676.3	0.9
O	12,629	72	379	5.6	681.0	681.0	681.1	0.1
P	13,224	44	304	6.9	685.0	685.0	684.9	-0.1
Q	13,663	52	351	6.0	687.5	687.5	687.6	0.1
R	14,163	63	369	5.7	688.3	688.3	688.9	0.6
S	14,611	89	377	5.6	689.4	689.4	690.3	0.9
T	15,009	90	300	7.0	691.5	691.5	692.5	1.0

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Berryhill Creek (cont)								
U	15,558	200	716	2.9	694.5	694.5	695.5	1.0
V	16,554	57	211	10.0	701.4	701.4	701.5	0.1
W	16,911	82	404	3.3	704.0	704.0	704.8	0.8
X	18,068	77	185	7.2	707.6	707.6	707.9	0.3
Y	18,658	85	320	4.2	710.9	710.9	711.5	0.6
Z	18,950	78	251	5.4	711.6	711.6	712.5	0.9
AA	19,399	56	207	6.5	714.1	714.1	714.9	0.8

[1]Feet above confluence with Arkansas River.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BERRYHILL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Berryhill Creek Tributary								
A	72	109	561	9.6	666.3	662.7[2]	663.1	0.4
B	566	116	633	8.5	666.3	665.5[2]	666.2	0.7
C	1,100	226	1,018	5.3	669.5	669.5	669.6	0.1
D	1,574	161	635	7.4	672.9	672.9	673.9	1.0
E	2,184	128	780	6.0	676.9	676.9	677.8	0.9
F	2,658	241	985	3.2	677.9	677.9	678.9	1.0
G	2,930	81	417	7.5	678.3	678.3	679.0	0.7
H	3,608	76	498	6.3	681.3	681.3	682.1	0.8
I	3,997	58	304	10.3	683.1	683.1	683.3	0.2
J	4,741	319	1,549	2.0	685.5	685.5	686.0	0.5
K	5,255	61	274	11.4	687.6	687.6	687.6	0.0
L	5,789	109	586	5.3	691.2	691.2	692.2	1.0
M	6,161	57	253	12.4	693.4	693.4	693.1	-0.3
N	6,571	93	635	4.9	696.3	696.3	696.6	0.3
O	7,070	63	223	9.3	697.2	697.2	697.2	0.0
P	7,335	49	290	7.1	699.3	699.3	699.6	0.3
Q	7,732	45	198	10.4	704.0	704.0	704.1	0.1

[1]Feet above confluence with Berryhill Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BERRYHILL CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bigheart Creek								
A	1,040	1,198	2,717	5.3	637.4	637.4[2]	638.4	1.0
B	1,600	625	2,231	6.5	637.8	637.8[2]	638.6	0.8
C	2,400	484	2,361	6.1	638.9	638.9[2]	639.4	0.5
D	2,815	264	1,350	11.0	638.9	638.9[2]	639.4	0.5
E	3,620	663	8,246	1.6	656.8	656.8	656.8	0.0
F	4,820	255	3,264	1.2	659.0	659.0	659.0	0.0
G	5,295	181	1,740	2.3	659.0	659.0	659.0	0.0
H	5,830	121	1,186	3.4	659.1	659.1	659.4	0.3
I	6,495	190	1,630	2.4	659.4	659.4	660.4	1.0
J	6,925	200	1,444	2.8	659.7	659.7	660.7	1.0
K	7,615	280	1,295	3.1	661.6	661.6	662.6	1.0
L	8,360	143	766	5.2	663.6	663.6	664.6	1.0
M	8,690	170	1,073	3.7	668.7	668.7	669.0	0.3
N	9,340	245	1,207	3.3	669.6	669.6	670.0	0.4
O	10,490	125	546	7.3	674.3	674.3	675.1	0.8

[1]Feet above confluence with Arkansas River.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BIGHEART CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bird Creek								
A	49,733	2,818	31,039	2.3	585.5	585.5	586.5	1.0
B	52,228	1,064	16,056	3.9	586.9	586.9	587.4	0.5
C	53,930	1,602	20,434	3.1	587.4	587.4	587.9	0.5
D	57,007	1,137	19,367	3.2	588.2	588.2	588.8	0.6
E	58,190	1,021	17,237	3.6	588.5	588.5	589.0	0.5
F	59,960	1,555	20,355	3.1	588.6	588.6	589.3	0.7
G	61,538	2,058	23,120	2.7	588.6	588.6	589.4	0.8
H	66,154	4,895	41,163	3.4	589.5	589.5	590.2	0.7
I	69,424	2,175	25,383	2.0	590.1	590.1	590.8	0.7
J	72,450	3,610	40,766	3.4	590.9	590.9	591.6	0.7
K	73,069	4,000	55,342	0.9	591.7	591.7	592.3	0.6
L	75,070	4,041	50,120	1.5	591.8	591.8	592.5	0.7
M	77,147	4,720	65,636	0.8	591.9	591.9	592.7	0.8
N	81,934	6,481	63,094	0.8	591.9	591.9	592.8	0.9
O	85,162	6,550	50,258	1.0	591.9	591.9	592.8	0.9
P	88,408	10,000	86,363	0.6	592.0	592.0	593.0	1.0
Q	90,388	9,300	68,095	0.8	592.1	592.1	593.1	1.0
R	94,638	8,100	54,608	0.9	592.3	592.3	593.3	1.0
S	101,654	5,500	29,172	1.7	594.0	594.0	594.6	0.6
T	106,927	3,500	21,040	2.4	597.2	597.2	597.9	0.7
U	110,047	4,600	33,077	1.7	600.4	600.4	601.2	0.8
V	111,435	4,300	21,668	2.3	601.4	601.4	602.3	0.9

[1]Feet above mouth.

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BIRD CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bird Creek (cont)								
W	112,604	3,500	24,924	2.0	602.3	602.3	603.2	0.9
X	114,881	2,864	30,067	3.5	604.5	604.5	605.2	0.7
Y	115,519	1,850	19,072	2.7	605.2	605.2	605.7	0.5
Z	117,110	2,600	19,791	2.6	607.1	607.1	607.8	0.7
AA	119,173	3,227	44,174	1.2	607.4	607.4	608.2	0.8
AB	123,512	3,180	27,484	1.9	607.6	607.6	608.4	0.8
AC	126,259	5,796	37,199	1.4	608.1	608.1	609.1	1.0
AD	128,200	6,450	42,031	1.2	608.8	608.8	609.5	0.7
AE	130,810	4,020	30,638	1.7	609.4	609.4	610.1	0.7
AF	132,100	3,880	29,004	1.8	609.9	609.9	610.5	0.6
AG	133,220	4,911	34,254	1.5	610.3	610.3	610.9	0.6
AH	136,620	6,477	33,393	1.5	611.1	611.1	612.0	0.9
AI	138,475	6,512	25,719	2.0	611.4	611.4	612.4	1.0
AJ	141,725	6,200	27,101	1.9	612.3	612.3	613.3	1.0
AK	143,985	5,156	25,744	2.0	613.0	613.0	614.0	1.0
AL	152,115	4,864	35,201	1.4	615.3	615.3	616.0	0.7
AM	154,030	4,513	27,854	1.8	615.9	615.9	616.5	0.6
AN	157,160	6,100	36,097	1.4	616.9	616.9	617.4	0.5
AO	159,330	9,550	35,873	1.4	617.7	617.7	618.2	0.5
AP	162,780	9,590	51,985	1.0	619.0	619.0	619.2	0.2
AQ	165,300	6,049	34,782	1.5	619.4	619.4	619.7	0.3
AR	168,170	4,354	24,417	2.1	619.8	619.8	620.2	0.4

[1]Feet above mouth.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bird Creek (cont)								
AS	174,240	3,325	20,141	2.5	622.4	622.4	623.0	0.6
AT	176,375	3,936	26,310	1.9	625.0	625.0	625.9	0.9
AU	177,690	4,348	30,058	1.7	625.7	625.7	626.6	0.9
AV	179,170	4,612	33,433	1.5	626.1	626.1	627.0	0.9
AW	180,520	4,900	35,549	1.4	626.3	626.3	627.2	0.9
AX	181,565	4,949	31,041	1.6	626.5	626.5	627.4	0.9
AY	182,860	4,700	26,869	1.9	626.7	626.7	627.6	0.9
AZ	184,760	4,788	27,106	1.9	627.2	627.2	628.2	1.0
BA	186,040	4,880	22,682	2.2	627.4	627.4	628.4	1.0
BB	189,655	5,700	29,040	1.8	628.6	628.6	629.4	0.8
BC	193,830	3,990	21,649	2.4	629.8	629.8	630.4	0.6
BD	195,855	1,910	9,190	5.5	632.2	632.2	632.4	0.2
BE	197,590	2,057	13,750	3.7	634.9	634.9	635.1	0.2
BF	200,280	4,111	19,449	2.6	635.8	635.8	636.2	0.4
BG	204,160	4,700	23,989	2.1	637.1	637.1	637.4	0.3
BH	207,380	6,100	33,299	1.5	637.6	637.6	638.3	0.7
BI	208,570	4,800	25,102	2.0	637.7	637.7	638.6	0.9
BJ	209,935	4,700	18,673	2.7	638.2	638.2	639.0	0.8
BK	212,790	4,725	15,884	3.2	639.9	639.9	640.4	0.5
BL	214,230	5,400	15,354	3.3	640.7	640.7	641.3	0.6
BM	216,565	5,580	19,269	2.6	642.2	642.2	642.9	0.7
BN	218,185	6,020	26,014	2.0	643.5	643.5	644.1	0.6
BO	222,900	6,477	31,535	1.6	644.9	644.9	645.3	0.4

[1]Feet above mouth.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bird Creek Tributary								
A	1,300	176	683	2.1	593.8	593.2[2]	594.2	1.0
B	2,900	150	323	4.4	601.0	601.0	601.8	0.8
C	4,150	175	702	2.0	603.9	603.9	604.8	0.9
D	5,230	111	370	3.8	606.9	606.9	607.3	0.4
E	6,050	100	384	3.7	610.1	610.1	610.9	0.8

[1]Feet above Mohawk Park Pond.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BIRD CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bird Creek Tributary 5A								
A	3,450	83	411	6.0	590.2	581.8[2]	581.9	0.1
B	4,683	166	1,374	1.9	590.2	589.3[2]	589.3	0.0
C	6,802	79	732	3.6	590.2	589.6[2]	589.7	0.1
D	7,820	282	1,886	1.5	590.2	590.0[2]	590.5	0.5
E	8,621	102	738	4.3	590.2	590.2[2]	590.7	0.5
F	9,290	48	394	6.5	591.3	591.3	592.3	1.0
G	10,489	64	341	6.8	594.3	594.3	595.1	0.8
H	11,506	51	382	6.0	599.8	599.8	600.2	0.4
I	12,023	53	1,126	2.8	603.3	603.3	603.9	0.6
J	13,204	33	153	6.5	605.8	605.8	605.9	0.1
K	14,752	50	246	3.8	615.5	615.5	615.9	0.4
L	15,518	115	343	3.1	623.2	623.2	623.5	0.3
M	16,040	47	166	6.4	625.9	625.9	626.1	0.2
N	17,245	35	93	6.2	631.7	631.7	631.8	0.1
O	18,195	28	77	6.3	636.8	636.8	636.9	0.1
P	19,456	47	112	4.0	646.7	646.7	647.1	0.4
Q	20,514	53	91	4.7	653.1	653.1	653.9	0.8

[1]Feet above confluence with Bird Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Bixby Creek								
A	1,097	115	832	4.4	597.5	595.7[3]	596.0	0.3
B	2,094	116	755	4.0	597.5	596.1[3]	596.5	0.4
C	4,138	193	852	3.6	597.5	597.1[3]	597.7	0.6
D	4,799	320	1,512	2.0	597.5	597.4[3]	598.1	0.7
E	5,291	358	1,454	2.0	597.7	597.7	598.4	0.7
F	5,596	374	1,732	1.7	597.8	597.8	598.5	0.7
G	7,173	135	803	3.5	598.0	598.0	598.7	0.7
H	7,717	114	738	3.8	598.0	598.0	599.0	1.0
I	9,158	340	1,748	1.4	598.6	598.6	599.6	1.0
J	10,695	201	1,019	1.1	598.9	598.9	599.7	0.8
K	11,075	109	610	1.8	599.5	599.5	599.8	0.3
L	13,256	625	2,833	0.4	599.8	599.8	600.1	0.3
M	14,536	76	272	4.0	600.8	600.8	601.5	0.7
N	15,472	196	749	1.4	601.3	601.3	602.1	0.8
O–R[2]								

[1]Stream distance in feet above confluence with Arkansas River.
[2]No floodway data.
[3]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK
AND INCORPORATED AREAS

FLOODWAY DATA

BIXBY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Blackjack Creek								
A	640	1,090	4,741	1.8	592.9	592.9	593.9	1.0
B	1,460	980	3,873	2.2	593.6	593.6	594.6	1.0
C	3,215	1,090	6,155	1.4	595.0	595.0	595.9	0.9
D	5,080	1,360	7,406	1.2	595.7	595.7	596.6	0.9
E	6,250	1,310	7,339	1.2	596.1	596.1	597.0	0.9
F	7,470	845	3,608	2.4	597.0	597.0	597.9	0.9
G	8,535	760	3,748	2.3	598.2	598.2	599.1	0.9
H	9,430	800	3,554	2.4	599.0	599.0	599.9	0.9
I	10,510	840	4,233	2.0	599.9	599.9	600.8	0.9
J	11,550	830	3,205	2.7	600.6	600.6	601.5	0.9
K	13,430	805	4,151	2.1	601.8	601.8	602.7	0.9
L	14,775	795	1,716	5.0	603.6	603.6	604.5	0.9
M	15,765	850	3,150	2.7	607.4	607.4	608.4	1.0
N	16,780	640	2,509	3.4	610.5	610.5	611.3	0.8
O	17,540	455	2,556	3.4	612.9	612.9	613.5	0.6
P	18,130	484	3,208	2.7	613.5	613.5	614.2	0.7
Q	19,760	750	2,791	2.6	615.8	615.8	616.0	0.2
R	21,380	635	2,527	2.9	618.2	618.2	618.7	0.5
S	23,070	395	2,073	3.6	620.4	620.4	621.1	0.7
T	24,140	579	2,201	3.4	621.6	621.6	622.3	0.7
U	25,350	425	1,586	4.7	623.0	623.0	624.0	1.0

[1]Feet above confluence with Horsepen Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Blackjack Creek (cont)								
V	26,830	920	3,381	2.2	625.5	625.5	626.2	0.7
W	28,980	490	1,947	3.8	628.4	628.4	629.3	0.9
X	30,385	445	2,064	3.6	631.0	631.0	631.8	0.8
Y	32,340	475	2,305	3.2	633.1	633.1	634.0	0.9
AA	33,610	820	2,641	2.8	634.6	634.6	635.2	0.6
AB	34,840	310	1,482	5.0	636.9	636.9	636.9	0.0
Z	35,570	500	2,498	1.6	637.8	637.8	638.4	0.6
AA	36,650	450	1,676	2.4	638.4	638.4	639.1	0.7
AB	38,010	300	1,201	3.4	640.5	640.5	641.0	0.5
AC	38,600	270	1,108	3.7	641.8	641.8	642.3	0.5
AD	39,930	79	443	7.7	643.3	643.3	644.3	1.0
AE	41,545	320	1,307	2.6	648.8	648.8	649.6	0.8
AF	44,410	80	390	5.8	655.8	655.8	656.3	0.5
AG	45,640	90	458	3.7	663.0	663.0	663.6	0.6
AH	46,680	60	299	5.7	667.4	667.4	668.2	0.8
Al	47,320	80	389	4.4	670.8	670.8	671.4	0.6
AJ	48,320	102	395	4.3	674.4	674.4	675.1	0.7
AK	48,840	57	218	6.3	677.2	677.2	678.1	0.9
AL	30,385	445	2,064	3.6	631.0	631.0	631.8	0.8
AM	48,840	57	218	6.3	677.2	677.2	678.1	0.9

[1]Feet above confluence with Horsepen Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Blackjack Creek Tributary A								
A	1,880	292	1,074	2.8	617.8	617.8	617.8	0.0
B	2,548	160	700	4.4	619.6	619.6	620.0	0.4
C	3,328	116	612	5.0	623.1	623.1	623.1	0.0
D	3,946	100	477	6.6	626.2	626.2	626.4	0.2
E	4,840	159	1,183	2.7	633.1	633.1	633.2	0.1
F	5,267	146	688	4.6	633.8	633.8	634.3	0.5
G	5,890	96	639	4.9	635.7	635.7	636.2	0.5
H	6,725	144	601	4.8	641.1	641.1	642.0	0.9
I	7,003	116	661	4.4	642.8	642.8	643.1	0.3
J	7,752	104	454	6.3	644.7	644.7	645.1	0.4

[1]Stream distance in feet above confluence with Blackjack Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Broken Arrow Creek								
A	309	269	2,263	5.6	586.4	585.3[3]	585.9	0.6
B	1,274	101	1,458	8.7	588.1	588.1	588.7	0.6
C	1,654	72	1,055	12.0	588.2	588.2	589.0	0.8
D	2,618	125	1,620	7.8	591.9	591.9	592.6	0.7
E	3,816	385	4,394	2.9	593.7	593.7	594.4	0.7
F	5,080	119	1,710	7.3	594.0	594.0	595.0	1.0
G	6,367	105	1,470	8.5	596.0	596.0	597.0	1.0
H	7,555	118	1,571	8.0	597.8	597.8	598.5	0.7
I	8,400	168	1,696	7.4	600.2	600.2	600.6	0.4
J	8,810	115	1,634	7.7	602.0	602.0	602.3	0.3
K	10,554	400	3,092	4.1	603.2	603.2	604.1	0.9
L	13,916	280	1,935	4.8	607.1	607.1	607.8	0.7
M	14,574	533	3,200	2.9	608.1	608.1	609.0	0.9
N	15,364	618	3,819	2.4	608.7	608.7	609.6	0.9
O	16,260	341	2,503	3.7	609.3	609.3	610.1	0.8
P	16,353	341	2,042	4.7	609.4	609.4	610.1	0.7
Q	17,052	309	2,571	3.6	610.8	610.8	611.4	0.6
R	17,341	447	2,812	3.3	611.2	611.2	611.9	0.7
S	17,435	447	3,384	3.7	612.8	612.8	613.6	0.8
T	18,727	627	3,654	2.5	614.5	614.5	615.3	0.8
U	21,255	633	4,512	2.0	616.5	616.5	617.3	0.8
V-AP[2]								

[1] Feet above confluence with Arkansas River

[2] Cross sections located outside County boundary

[3] Water-surface elevations computed without consideration of backwater effects

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BROKEN ARROW CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Broken Arrow Creek								
AQ	45,489	199	1,022	3.8	670.0	670.0	671.0	1.0
AR	46,374	437	1,524	2.5	673.2	673.2	674.0	0.8
AS	46,759	175	896	4.3	673.5	673.5	674.1	0.6
AT	47,652	201	1,134	3.0	675.9	675.9	676.5	0.6
AU	47,869	139	773	4.3	676.1	676.1	676.7	0.6
AV	48,056	72	424	7.9	676.3	676.3	676.8	0.5
AW	48,445	157	948	3.5	678.7	678.7	679.5	0.8
AX	49,188	40	271	6.6	683.2	683.2	683.3	0.1
AY	49,994	140	391	4.6	686.6	686.6	686.8	0.2
AZ	50,952	152	509	3.5	689.9	689.9	690.5	0.6
BA	51,146	69	329	5.4	690.2	690.2	690.9	0.7
BB	52,082	156	582	3.1	693.8	693.8	694.2	0.4
BC	52,887	85	241	7.4	695.9	695.9	695.9	0.0
BD	53,654	120	542	3.3	699.1	699.1	700.0	0.9
BE	54,029	158	465	4.3	700.4	700.4	701.0	0.6
BF	54,347	116	453	4.6	702.2	702.2	702.6	0.4
BG	54,676	153	529	2.0	703.0	703.0	703.7	0.7

[1] Feet above confluence with Arkansas River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BROKEN ARROW CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Brookhollow Creek								
A	1,335	81	537	5.6	640.4	639.2[2]	639.4	0.2
B	2,245	77	473	5.9	641.5	641.5	641.6	0.1
C	3,160	61	402	7.0	644.6	644.6	644.6	0.0
D	5,333	127	992	5.3	653.1	653.1	653.1	0.0
E	5,463	70	384	8.5	653.1	653.1	653.1	0.0
F	6,050	90	595	5.5	657.6	657.6	657.7	0.1
G	6,778	88	478	6.8	659.0	659.0	659.1	0.1
H	7,683	72	352	7.9	662.0	662.0	662.0	0.0
I	8,655	77	327	8.5	666.7	666.7	666.7	0.0
J	9,943	77	346	12.1	681.9	681.9	681.9	0.0
K	10,634	126	809	9.4	686.8	686.8	687.2	0.4
L	11,582	167	813	6.5	690.8	690.8	691.5	0.7
M	13,325	114	627	19.7	695.4	695.4	695.4	0.0
N	13,975	85	392	9.6	697.7	697.7	698.6	0.9
O	14,600	72	302	10.2	701.7	701.7	702.0	0.3
P	15,100	72	420	7.9	706.5	706.5	706.6	0.1
Q	16,200	90	636	3.8	709.4	709.4	709.6	0.2
R	16,800	90	492	4.4	710.7	710.7	711.1	0.4
S	17,355	58	267	8.2	711.8	711.8	712.0	0.2
T	17,780	42	188	12.1	716.0	716.0	716.0	0.0

[1]Feet above confluence with Mingo Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BROOKHOLLOW CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Brookhollow Creek (cont)								
U	19,060	156	676	2.8	725.3	725.3	726.3	1.0
V	19,760	81	585	3.3	728.8	728.8	729.8	1.0

[1]Feet above confluence with Mingo Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Brookhollow Creek Tributary								
A	700	82	598	3.4	655.2	655.2	656.1	0.9
B	1,500	89	388	5.2	656.8	656.8	657.1	0.3
C	2,000	79	339	5.9	658.6	658.6	658.6	0.0
D	2,322	82	330	6.1	659.9	659.9	659.9	0.0
E	2,422	70	558	3.6	663.9	663.9	663.9	0.0
F	2,835	60	411	4.9	664.1	664.1	664.1	0.0
G	3,258	54	285	6.4	664.3	664.3	664.6	0.3
H	3,690	64	285	6.4	666.1	666.1	666.3	0.2
I	4,275	56	178	10.2	670.2	670.2	670.2	0.0
J	4,710	76	467	3.9	675.2	675.2	675.4	0.2
K	5,273	80	368	4.9	676.6	676.6	676.7	0.1
L	5,423	70	479	3.8	679.0	679.0	680.0	1.0
M	5,935	60	174	9.8	681.1	681.1	681.3	0.2
N	6,705	53	208	8.2	689.8	689.8	689.9	0.1
O	7,210	58	209	8.1	692.8	692.8	692.8	0.0
P	7,700	30	79	8.1	695.9	695.9	695.9	0.0
Q	8,600	261	684	1.0	705.1	705.1	705.1	0.0
R	9,000	53	88	7.4	706.9	706.9	706.9	0.0

[1]Feet above confluence with Brookhollow Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

BROOKHOLLOW CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Caney River								
A - D[2]								
E	17,875	3,668	31,951	1.1	599.5	599.5	600.4	0.9
F	20,300	4,653	32,064	1.1	600.3	600.3	601.3	1.0
G	25,950	5,641	40,080	0.9	600.7	600.7	601.7	1.0
H	32,380	5,826	34,342	1.0	601.2	601.2	602.2	1.0
I	35,200	5,996	38,891	0.9	601.6	601.6	602.6	1.0
J	36,850	7,553[3]	43,288	0.8	601.8	601.8	602.8	1.0

[1]Feet above downstream Limit of Detailed Study.
[2]Cross section located outside of Tulsa County.
[3]Total floodway width.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

CANEY RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Catfish Creek								
A	350	56	233	5.5	667.9	661.6[2]	661.7[2]	0.1
B	735	55	169	7.6	667.9	663.3[2]	663.3[2]	0.0
C	1,103	33	180	6.0	667.9	667.9	667.9	0.0
D	2,425	60	228	4.7	668.4	668.4	668.7	0.3
E	2,825	185	489	2.2	670.2	670.2	670.3	0.1
F	4,148	1,112	8,174	0.2	678.7	678.7	678.8	0.1
G	4,865	753	4,041	0.4	678.7	678.7	678.8	0.1

[1]Feet above confluence with Mingo Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

CATFISH CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Charley Creek								
A	6,874	1,100	6,898	1.1	616.8	616.8	617.8	1.0
B	7,743	600	4,501	1.7	617.2	617.2	618.1	0.9
C	9,487	700	4,687	1.6	617.8	617.8	618.8	1.0
D	11,430	400	2,620	2.9	619.3	619.3	620.1	0.8
E	13,060	800	4,482	1.7	620.8	620.8	621.7	0.9
F	17,043	650	4,141	1.0	625.4	625.4	626.4	1.0
G	19,386	170	1,063	3.7	626.8	626.8	627.4	0.6
H	21,537	439	1,841	2.1	630.0	630.0	631.0	1.0
I	23,507	220	1,784	2.4	637.7	637.7	637.9	0.2
J	25,259	800	3,400	1.3	638.3	638.3	639.2	0.9

[1]Feet above confluence with Bird Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

CHARLEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cherry Creek (North Tulsa)								
A	720	161	900	6.3	609.5	609.5	610.0	0.5
B	1,390	230	1,757	3.2	611.6	611.6	612.5	0.9
C	2,210	195	1,594	3.6	613.0	613.0	613.8	0.8
D	2,780	200	1,609	3.5	613.9	613.9	614.4	0.5
E	3,435	120	922	6.2	614.4	614.4	615.6	1.2
F	4,030	260	1,433	4.0	615.9	615.9	616.7	0.8
G	4,435	145	696	8.2	618.3	618.3	618.3	0.0
H	4,895	140	791	7.2	620.5	620.5	621.0	0.5
I	5,810	190	954	5.9	624.7	624.7	625.1	0.4
J	6,625	390	2,008	2.8	626.7	626.7	627.3	0.6
K	7,660	280	1,308	4.3	627.8	627.8	628.7	0.9
L	8,050	562	2,565	2.2	628.7	628.7	629.5	0.8
M	9,840	290	1,307	4.3	631.4	631.4	631.7	0.3
N	10,300	200	1,120	5.1	632.3	632.3	632.9	0.6
O	11,215	300	1,542	3.7	633.6	633.6	634.3	0.7
P	12,525	225	1,141	5.0	635.6	635.6	636.5	0.9
Q	13,980	275	1,522	3.7	639.4	639.4	640.1	0.7
R	15,010	160	821	5.5	641.2	641.2	642.0	0.8
S	16,470	280	1,168	3.8	645.3	645.3	646.3	1.0
T	17,260	290	1,723	2.6	648.3	648.3	649.0	0.7

[1]Feet above confluence with Horsepen Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cherry Creek (North Tulsa) (cont)								
U	18,010	170	787	5.7	650.2	650.2	650.9	0.7
V	19,040	260	1,340	3.4	652.8	652.8	653.2	0.4
W	20,530	310	1,452	3.1	653.8	653.8	654.3	0.5
X	22,030	730	2,072	2.2	655.1	655.1	655.4	0.3
Y	23,310	365	1,338	3.4	657.1	657.1	657.1	0.0
Z	24,570	350	1,744	1.8	659.3	659.3	660.1	0.8
AA	25,365	380	1,825	1.7	660.2	660.2	660.9	0.7
AB	26,460	170	921	2.5	662.6	662.6	663.1	0.5
AC	27,445	135	841	2.8	663.3	663.3	664.1	0.8
AD	28,145	150	662	3.5	664.2	664.2	665.1	0.9
AE	29,590	219	1,009	3.0	667.5	667.5	668.4	0.9
AF	30,720	150	843	1.2	671.7	671.7	672.4	0.7
AG	31,500	125	442	2.2	672.4	672.4	672.9	0.5
AH	33,100	105	379	2.6	676.7	676.7	677.6	0.9
AI	34,350	80	256	3.8	680.6	680.6	681.2	0.6

[1]Feet above confluence with Horsepen Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cherry Creek Tributary								
A	260	100	433	2.1	659.6	659.6	660.5	0.9
B	1,030	80	296	3.0	661.6	661.6	662.4	0.8
C	1,750	65	251	3.5	663.4	663.4	664.1	0.7
D	2,870	181	181	4.9	670.7	670.7	670.7	0.0
E	4,000	86	74	2.9	671.1	671.1	671.6	0.5
F	5,150	60	66	1.8	678.3	678.3	679.1	0.8
G	6,430	40	26	4.6	686.6	686.6	686.7	0.1

[1] Feet above confluence with Cherry Creek (North Tulsa).

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

CHERRY CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cherry Creek (West Tulsa)								
A	1,700	91	760	8.7	626.1	624.9[2]	624.9	0.0
B	3,850	111	974	6.4	627.6	627.6	627.6	0.0
C	6,100	95	681	8.5	630.2	630.2	630.2	0.0
D	6,950	84	428	3.7	631.7	631.7	631.8	0.1
E	8,500	80	382	4.7	633.4	633.4	633.4	0.0

[1] Feet above confluence with Arkansas River.
[2] Water-surface elevations computed without consideration of backwater effects from Arkansas River.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

CHERRY CREEK (WEST TULSA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek (North Tulsa)								
A	2,860	1,500	3,400	2.1	594.0	593.4[2]	594.4	1.0
B	4,085	1,504	4,055	1.8	594.0	594.0[2]	594.9	0.9
C	7,075	1,000	3,296	2.2	595.5	595.5	596.2	0.7
D	8,975	600	1,735	4.0	598.0	598.0	598.9	0.9
E	9,472	200	1,010	6.9	600.1	600.1	600.4	0.3
F	9,717	200	2,046	3.4	603.1	603.1	603.8	0.7
G	10,352	200	1,528	4.6	603.8	603.8	604.7	0.9
H	11,072	210	1,337	5.2	605.6	605.6	606.1	0.5
I	12,122	275	2,100	3.2	607.6	607.6	608.2	0.6
J	12,697	300	1,831	3.7	608.4	608.4	609.4	1.0
K	13,307	200	1,152	5.8	610.9	610.9	611.5	0.6
L	14,117	150	1,098	6.1	613.9	613.9	614.3	0.4
M	14,952	125	1,343	5.0	616.5	616.5	616.9	0.4
N	15,777	168	1,178	5.7	618.5	618.5	618.9	0.4
O	16,679	212	2,070	3.3	621.8	621.8	622.3	0.5
P	17,319	295	1,738	3.9	622.5	622.5	623.0	0.5
Q	19,224	150	1,125	5.5	626.6	626.6	627.4	0.8
R	20,124	315	1,965	3.1	629.3	629.3	630.1	0.8
S	20,804	90	667	7.5	630.0	630.0	630.7	0.7

[1]Feet above confluence with Mohawk Park Pond.
[2]Water-surface elevations computed without consideration of backwater effects.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek (North Tulsa) (cont)								
T	21,454	150	637	7.8	635.0	635.0	635.7	0.7
U	22,104	83	643	7.8	638.5	638.5	639.0	0.5
V	23,197	173	1,097	4.6	643.5	643.5	644.3	0.8
W	24,251	105	711	7.0	650.3	650.3	650.4	0.1
X	24,409	100	918	5.4	652.8	652.8	652.8	0.0
Y Z	25,884	105	1,009	5.0	656.0	656.0	656.4	0.4
AA	26,167	79	719	7.0	656.9	656.9	657.5	0.6
AB	27,417	104	937	5.3	661.4	661.4	661.9	0.5
AC	27,601	50	544	9.2	662.2	662.2	662.7	0.5
AD	28,781	92	517	9.6	664.1	664.1	664.3	0.2
AE	30,156	57	228	11.5	671.4	671.4	671.4	0.0
	31,846	23	120	13.0	684.7	684.7	684.7	0.0

[1]Feet above confluence with Mohawk Park Pond.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek Tributary								
A	640	52	287	8.5	665.8	665.8	666.8	1.0
B	1,080	46	304	8.0	670.3	670.3	670.4	0.1
C	1,375	95	462	2.9	673.8	673.8	674.3	0.5
D	1,825	58	307	4.4	676.4	676.4	676.4	0.0
E	2,475	31	184	7.3	680.8	680.8	681.2	0.4

[1]Feet above confluence with Coal Creek (North Tulsa).

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

COAL CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek Tributary A								
A	746	220	1043	1.3	644.9	644.9	645.9	1.0
B	2,421	165	216	6.0	650.4	650.4	650.4	0.0
C	3,270	116	348	3.7	657.5	657.5	657.8	0.3
D	4,628	173	213	6.1	670.5	670.5	670.5	0.0

[1]Feet above confluence with Coal Creek (West Tulsa).

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

COAL CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek Tributary B								
A	221	178	921	2.4	648.0	648.0	649.0	1.0
B	1,618	340	458	4.8	655.7	655.7	655.7	0.0
C	5,014	180	646	3.4	672.3	672.3	673.3	1.0
D	6,292	46	244	8.9	678.2	678.2	679.1	0.9
E	6,460	153	557	3.9	680.6	680.6	681.2	0.6
F	6,545	160	1241	1.8	684.7	684.7	685.6	0.9
G	7,510	85	613	3.6	684.9	684.9	685.9	1.0
H	8,730	80	296	7.4	687.2	687.2	688.1	0.9
I	9,880	94	364	6.0	697.5	697.5	698.2	0.7

[1]Feet above confluence with Coal Creek (West Tulsa).

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Coal Creek (West Tulsa)								
A	100	235	1,664	5.5	652.6	621.1	621.1	0.0
B	1,440	354	3,178	2.9	626.1	623.2	623.4	0.2
C	3,395	329	3,605	2.6	627.5	625.3	625.9	0.6
D	4,478	246	2,316	4.0	628.3	626.6	627.2	0.6
E	5,758	230	2,115	4.3	628.5	627.9	628.7	0.8
F	8,598	138	1,201	7.4	633.5	633.5	634.3	0.8
G	12,198	677	3,993	2.2	641.2	641.2	641.9	0.7
H	15,718	1,089	4,925	1.7	644.4	644.4	645.0	0.6
I	17,398	574	2,028	4.0	646.6	646.6	647.6	1.0
J	20,338	846	1,767	3.4	652.6	652.6	653.4	0.8
K	22,216	87	718	8.4	661.7	661.7	662.0	0.3
L	23,800	279	1,461	4.0	667.7	667.7	668.0	0.3
M	29,530	200	798	6.5	681.4	681.4	682.0	0.6
N	31,866	401	1,815	2.1	690.0	690.0	690.4	0.4
O	34,436	201	1,059	3.1	695.8	695.8	696.1	0.3
P	36,956	172	752	4.4	701.6	701.6	702.3	0.7
Q	39,006	281	1,301	1.6	704.9	704.9	705.7	0.8
R	39,088	333	1,668	1.3	704.8	705.1	705.9	0.8
S	41,408	141	613	3.4	706.5	706.5	707.2	0.7
T	43,408	184	752	2.8	711.0	711.6	712.2	0.6

[1]Feet above confluence with Polecat Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

COAL CREEK (WEST TULSA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cooley Creek								
A	800	76	370	12.7	614.9	605.1[2]	605.1	0.0
B	1,500	102	676	6.9	617.9	617.9	618.9	1.0
C	2,450	371	1,026	2.3	626.6	626.6	626.6	0.0
D	3,400	960	1,979	2.4	626.9	626.9	627.1	0.2
E	4,600	83	384	12.3	629.6	629.6	629.6	0.0
F	5,300	40	299	15.6	634.0	634.0	634.0	0.0
G	5,700	40	318	14.7	636.8	636.8	636.8	0.0
H	6,200	40	299	15.6	638.0	638.0	638.0	0.0
I	7,400	529	3,306	1.7	647.9	647.9	647.9	0.0
J	9,875	80	357	6.5	656.3	656.3	656.6	0.3
K	12,093	100	460	5.2	666.8	666.8	667.4	0.6
L	12,647	43	195	12.2	668.4	668.4	668.4	0.0
M	12,797	209	1,107	2.1	674.0	674.0	674.0	0.0
N	14,458	147	402	9.0	677.6	677.6	678.2	0.6
O	14,958	118	589	6.1	682.0	682.0	682.9	0.9
P	15,958	103	444	7.7	686.0	686.0	686.9	0.9
Q	17,648	100	249	7.7	695.2	695.2	695.3	0.1

[1]Feet above confluence with Mingo Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK
AND INCORPORATED AREAS

FLOODWAY DATA

COOLEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cooley Creek Tributary								
A	635	110	479	8.9	657.0	657.0	658.0	1.0
B	1,120	112	679	5.6	661.7	661.7	662.6	0.9
C	2,000	200	1,066	4.0	668.4	668.4	669.1	0.7
D	2,810	85	500	7.5	673.5	673.5	673.5	0.0
E	3,600	350	2,350	2.2	678.5	678.5	678.5	0.0
F	3,860	311	1,903	3.0	678.6	678.6	678.6	0.0
G	4,510	212	967	4.1	679.0	679.0	679.2	0.2
H	5,170	150	650	5.3	681.8	681.8	682.6	0.8
I	5,590	167	710	4.6	685.4	685.4	686.4	1.0
J	6,780	133	610	3.8	691.1	691.1	692.0	0.9
K	7,430	230	848	3.0	694.9	694.9	695.9	1.0
L	8,380	271	846	3.3	698.9	698.9	699.8	0.9
M	9,520	94	519	4.1	704.3	704.3	705.2	0.9
N	10,000	246	1,081	2.5	709.2	709.2	710.2	1.0
O	10,660	124	333	9.2	711.9	711.9	712.7	0.8
P	11,050	82	305	8.8	713.1	713.1	713.4	0.3
Q	11,790	86	332	9.0	716.9	716.9	717.0	0.1
R	12,220	78	325	9.3	718.2	718.2	718.8	0.6
S	12,870	73	302	10.1	720.8	720.8	721.3	0.5

[1]Feet above confluence with Cooley Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

COOLEY CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Cooley Creek Tributary (cont)								
T	13,890	100	377	7.9	725.2	725.2	726.0	0.8
U	14,400	70	264	8.1	726.9	726.9	727.5	0.6
V	14,590	70	286	7.6	728.3	728.3	729.0	0.7
W	15,400	56	247	8.3	731.1	731.1	731.6	0.5
X	16,770	72	358	6.9	737.4	737.4	737.8	0.4
Y	18,220	60	317	7.7	743.6	743.6	744.5	0.9
Z	19,610	65	487	3.5	759.7	759.7	759.8	0.1

[1]Feet above confluence with Cooley Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Crow Creek								
A	100	68	602	7.5	629.0	629.0	629.0	0.0
B	1,800	58	483	9.3	636.8	636.8	636.8	0.0
C	3,300	78	715	6.3	646.8	646.8	646.8	0.0
D	4,550	130	1,062	4.3	651.4	651.7	652.1	0.4
E	5,350	139	709	6.4	655.4	655.7	656.2	0.5
F	6,770	147	1,202	3.6	664.7	664.7	665.5	0.8
G	8,300	317	1,434	3.0	670.6	670.3	670.3	0.0
H	9,750	238	1,740	2.5	679.8	680.1	680.6	0.5

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Delaware Creek								
A	260	2,847	11,184	1.5	603.9	603.9	604.9	1.0
B	2,500	2,900	12,754	1.3	604.5	604.5	605.4	0.9
C	4,660	2,636	13,548	1.3	604.7	604.7	605.6	0.9
D	6,620	2,650	15,299	1.1	604.9	604.9	605.8	0.9
E	9,180	1,692	11,035	1.6	605.2	605.2	606.1	0.9
F	11,645	2,240	10,985	1.6	605.7	605.7	606.5	0.8
G	13,002	1,801	7,715	2.2	606.3	606.3	607.1	0.8
H	13,635	2,028	9,516	1.8	606.6	606.6	607.4	0.8
I	14,420	2,409	11,390	1.5	606.8	606.8	607.6	0.8
J	14,985	2,227	9,125	1.9	606.8	606.8	607.7	0.9
K	15,760	4,160	17,311	1.0	607.1	607.1	608.0	0.9
L	16,535	4,494	16,306	1.1	607.2	607.2	608.0	0.8
M	18,055	3,641	13,873	1.2	607.7	607.7	608.5	0.8
N	19,040	3,980	12,781	1.3	608.0	608.0	608.8	0.8
O	20,350	5,200	19,995	0.9	609.2	609.2	609.7	0.5
P	21,160	4,171	12,749	1.3	609.4	609.4	609.9	0.5
Q	21,970	4,026	12,178	1.4	609.8	609.8	610.2	0.4
R	22,625	4,200	13,251	1.3	610.8	610.8	611.0	0.2
S	23,820	3,800	16,867	1.0	614.0	614.0	614.2	0.2
T	24,775	4,007	15,161	1.1	614.1	614.1	614.4	0.3

[1]Feet above confluence with Bird Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DELAWARE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Delaware Creek (cont)								
U	25,965	4,313	14,349	1.2	614.3	614.3	614.6	0.3
V	26,465	4,276	13,343	1.3	614.5	614.5	614.8	0.3
W	27,510	4,358	14,306	1.2	614.8	614.8	615.1	0.3
X	29,715	3,373	14,421	1.2	616.8	616.8	617.6	0.8
Y	30,770	2,805	11,054	1.6	617.3	617.3	618.0	0.7
Z	31,525	2,800	9,471	1.8	617.7	617.7	618.3	0.6
AA	32,450	2,300	9,824	1.7	618.3	618.3	618.9	0.6
AB	33,270	1,675	6,223	2.8	619.1	619.1	619.7	0.6

[1]Feet above confluence with Bird Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DELAWARE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Delaware Creek Tributary								
A	405	90	656	2.3	608.6	597.1	598.1	1.0
B	2,610	89	543	2.8	608.6	600.3	600.5	0.2
C	4,205	71	340	4.4	603.6	603.6	604.2	0.6
D	6,378	105	609	2.5	609.7	609.7	610.7	1.0
E	6,518	115	688	1.3	609.8	609.8	610.8	1.0
F	8,136	213	827	1.1	616.8	616.8	617.8	1.0

[1]Feet above confluence with Delaware Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DELAWARE CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Dirty Butter Creek								
A	3,625	412	3,352	2.7	615.0	615.0	616.0	1.0
B	5,895	496	3,042	3.0	617.6	617.6	618.5	0.9
C	7,612	511	3,334	2.6	621.7	621.7	622.5	0.8
D	8,612	320	1,922	4.6	622.6	622.6	623.5	0.9
E	10,043	193	1,685	5.2	625.1	625.1	625.9	0.8
F	11,004	120	715	7.7	625.5	625.5	626.4	0.9
G	11,832	138	946	5.8	629.2	629.2	629.2	0.0
H	12,432	100	569	9.7	629.2	629.2	629.2	0.0
I	13,123	120	788	5.7	633.1	633.6	633.6	0.0
J	14,787	119	856	5.2	642.3	642.3	643.0	0.7
K	16,053	136	1,245	3.2	646.9	646.9	647.9	1.0
L	16,697	180	1,161	2.2	647.2	647.2	648.0	0.8
M	18,021	78	682	3.7	650.3	650.3	651.1	0.8
N	18,346	78	686	3.6	650.4	650.4	651.2	0.8

[1]Feet above confluence with Flat Rock Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DIRTY BUTTER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Dirty Butter Creek Tributary								
A	775	94	565	6.5	629.7	629.7	630.7	1.0
B	1,409	50	834	4.4	641.8	641.8	641.8	0.0
C	2,684	86	879	4.5	641.9	641.9	642.5	0.6
D	3,684	71	638	6.1	645.2	645.2	645.4	0.2
E	4,229	94	612	6.4	646.6	646.6	647.1	0.5
F	5,254	160	588	6.7	650.7	650.7	651.2	0.5

[1]Feet above confluence with Dirty Butter Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DIRTY BUTTER CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Douglas Creek								
A	1,195	784	3,208	1.70	610.3	606.5[2]	606.6	0.1
B	1,829	796	2,965	1.90	610.3	607.5[2]	607.6	0.1
C	2,888	510	3,280	1.20	611.7	618.8	619.3	0.5
D	3,961	400	1,500	2.70	617.9	619.2	620.0	0.8
E	5,734	220	1,260	3.20	619.4	621.5	622.5	1.0
F	7,447	120	920	4.40	621.9	624.3	625.3	1.0

[1] Feet above confluence with Mingo Creek.
[2] Water-surface elevations computed without consideration of backwater effects

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DOUGLAS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek								
A	50	1,430	9,031	3.7	606.4	606.4	607.4	1.0
B	650	1,306	8,778	3.8	607.6	607.6	608.3	0.7
C	1,300	1,641	11,132	3.0	608.5	608.5	609.4	0.9
D	2,000	1,975	13,560	2.5	609.4	609.4	610.2	0.8
E	2,700	2,309	17,259	1.9	609.9	609.9	610.8	0.9
F	3,400	2,493	18,263	1.9	610.4	610.4	611.2	0.8
G	4,100	2,533	18,985	1.8	610.6	610.6	611.4	0.8
H	4,800	3,111	22,237	1.5	611.0	611.0	611.7	0.7
I	5,500	4,168	24,841	1.4	611.3	611.3	612.0	0.7
J	6,850	4,204	24,571	1.4	613.0	613.0	613.4	0.4
K	7,550	3,668	21,547	1.6	613.2	613.2	613.7	0.5
L	8,250	3,215	19,070	1.8	613.5	613.5	614.0	0.5
M	8,950	3,173	19,980	1.7	613.8	613.8	614.3	0.5
N	9,500	2,447	14,011	2.4	613.9	613.9	614.4	0.5
O	10,200	2,102	13,987	2.4	614.5	614.5	615.0	0.5
P	11,000	1,869	11,526	2.9	614.9	614.9	615.4	0.5
Q	11,700	1,631	9,385	3.6	615.4	615.4	615.9	0.5
R	12,750	1,378	10,422	3.2	617.4	617.4	618.2	0.8
S	14,200	2,258	16,843	2.0	619.3	619.3	620.1	0.8
T	14,950	3,046	23,605	1.4	619.7	619.7	620.4	0.7

[1]Feet above confluence with Snake Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek (cont)								
U	15,700	2,525	18,007	1.9	619.9	619.9	620.6	0.7
V	16,450	2,654	19,378	1.7	620.1	620.1	620.8	0.7
W	17,200	2,326	16,575	1.9	620.3	620.3	621.0	0.7
X	17,950	1,975	13,836	2.3	620.7	620.7	621.3	0.6
Y	18,700	1,659	14,041	2.2	621.0	621.0	621.7	0.7
Z	19,450	1,661	12,857	2.4	621.3	621.3	621.9	0.6
AA	20,200	1,522	12,702	2.5	621.6	621.6	622.2	0.6
AB	20,950	1,567	10,534	3.0	621.9	621.9	622.5	0.6
AC	48,800	1,815	8,202	2.2	639.3	639.3	640.1	0.8
AD	49,350	2,291	10,952	1.7	639.7	639.7	640.5	0.8
AE	50,100	1,975	7,998	2.3	640.1	640.1	640.8	0.7
AF	50,750	1,825	7,879	2.3	640.7	640.7	641.3	0.6
AG	51,500	1,555	7,866	2.3	641.1	641.1	641.7	0.6
AH	52,350	1,078	6,088	3.0	641.5	641.5	642.1	0.6
AI	53,100	464	2,950	6.2	641.9	641.9	642.5	0.6
AJ	53,750	705	7,898	2.3	643.1	643.1	643.9	0.8
AK	54,400	890	7,362	2.5	643.2	643.2	644.0	0.8
AL	54,900	721	4,237	4.3	643.3	643.3	644.1	0.8
AM	55,700	1,309	6,349	2.9	644.4	644.4	645.3	0.9
AN	56,350	1,520	7,471	2.4	644.8	644.8	645.7	0.9

[1]Feet above confluence with Snake Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek (cont)								
AO	57,000	1,918	9,360	1.9	645.3	645.3	646.1	0.8
AP	58,850	1,730	7,809	2.3	646.4	646.4	647.1	0.7
AQ	59,600	2,359	9,311	1.9	646.9	646.9	647.6	0.7
AR	60,335	2,583	10,218	1.8	647.5	647.5	648.0	0.5
AS	61,000	2,190	8,427	2.2	648.0	648.0	648.4	0.4
AT	61,700	1,973	9,513	1.9	648.6	648.6	648.9	0.3
AU	62,195	2,157	7,678	2.4	648.8	648.8	649.2	0.4
AV	63,000	2,013	6,694	2.7	649.6	649.6	650.0	0.4
AW	63,650	2,198	7,045	2.6	650.3	650.3	650.9	0.6
AX	64,310	2,071	7,663	2.4	651.0	651.0	651.7	0.7
AY	65,050	1,342	3,899	4.6	651.6	651.6	652.4	0.8
AZ	65,800	928	4,101	4.4	654.2	654.2	654.2	0.0
BA	66,510	1,156	5,024	3.6	654.8	654.8	655.6	0.8
BB	66,900	897	5,271	3.4	655.5	655.5	656.2	0.7
BC	67,515	666	4,317	4.2	656.5	656.5	657.1	0.6
BD	68,090	793	6,343	2.9	657.4	657.4	658.2	0.8
BE	68,700	315	3,381	5.4	657.7	657.7	658.4	0.7
BF	69,300	212	2,983	6.1	658.4	658.4	659.2	0.8
BG	69,900	591	4,996	3.6	659.6	659.6	660.5	0.9
BH	70,515	704	6,335	2.9	660.5	660.5	661.3	0.8

[1]Feet above confluence with Snake Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek (cont)								
BI	70,540	632	5,375	3.4	660.4	660.4	661.2	0.8
BJ	71,230	648	6,348	2.0	661.0	661.0	661.8	0.8
BK	71,930	393	3,289	3.8	661.2	661.2	662.0	0.8
BL	72,630	444	3,537	3.5	661.7	661.7	662.6	0.9
BM	73,330	402	2,861	4.9	662.4	662.4	663.2	0.8
BN	74,030	620	3,644	3.9	664.2	664.2	665.1	0.9
BO	74,730	228	2,454	5.8	665.1	665.1	666.0	0.9
BP	75,430	370	2,579	5.5	666.2	666.2	667.2	1.0
BQ	76,630	499	4,348	3.2	670.3	670.3	670.6	0.3
BR	77,330	638	4,129	3.4	670.8	670.8	671.2	0.4
BS	78,030	540	3,932	3.6	671.5	671.5	672.1	0.6
BT	78,730	566	3,320	4.7	672.0	672.0	672.6	0.6
BU	79,430	720	4,548	3.4	673.3	673.3	674.0	0.7
BV	80,130	459	2,477	6.3	674.3	674.3	675.0	0.7
BW	80,830	562	3,680	4.2	676.7	676.7	677.3	0.6
BX	81,530	502	3,097	5.0	677.7	677.7	678.5	0.8
BY	82,255	669	3,150	4.9	679.2	679.2	680.0	0.8
BZ	82,955	828	2,940	5.3	681.3	681.3	681.9	0.6
CA	83,655	1,322	7,571	2.1	683.0	683.0	683.9	0.9
CB	84,355	1,154	5,952	2.6	683.4	683.4	684.2	0.8
CC	85,055	1,669	7,321	2.1	684.1	684.1	684.9	0.8

[1]Feet above confluence with Snake Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek Tributary								
A	1,275	513	1,674	4.1	657.8	657.8[2]	658.6	0.8
B	1,675	472	2,209	3.1	659.9	659.9[2]	659.9	0.0
C	2,275	397	2,230	3.8	660.6	660.6[2]	660.9	0.3
D	2,775	460	3,005	2.9	661.1	661.1	661.6	0.5
E	3,205	437	2,406	3.6	661.3	661.3	661.9	0.6
F	3,675	666	3,479	2.5	662.0	662.0	662.6	0.6
G	4,215	772	2,933	2.9	662.5	662.5	663.1	0.6
H	4,625	604	2,900	3.0	663.0	663.0	663.7	0.7
I	5,175	368	2,147	4.0	663.6	663.6	664.4	0.8
J	5,675	161	1,322	6.5	664.2	664.2	664.9	0.7
K	6,075	596	3,425	2.5	665.3	665.3	666.1	0.8
L	6,675	511	2,300	3.7	665.6	665.6	666.4	0.8
M	7,215	134	1,197	7.1	666.2	666.2	667.0	0.8
N	9,070	632	3,378	2.5	673.0	673.0	673.1	0.1
O	9,875	539	3,173	2.7	673.4	673.4	673.7	0.3
P	10,975	461	3,137	2.7	673.9	673.9	674.3	0.4
Q	11,565	579	3,759	2.2	674.2	674.2	674.5	0.3
R	12,175	373	2,467	3.4	674.4	674.4	674.8	0.4
S	12,775	813	2,245	3.8	675.1	675.1	675.5	0.4

[1]Feet above confluence with Duck Creek.
[2]Water-surface elevation computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

DUCK CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Duck Creek Tributary (cont)								
T	13,375	490	2,487	3.4	676.4	676.4	677.0	0.6
U	13,975	287	1,148	7.4	677.2	677.2	677.6	0.4
V	14,575	301	1,947	4.3	679.6	679.6	680.4	0.8
W	15,275	357	2,145	3.9	680.7	680.7	681.5	0.8
X	15,875	469	2,365	3.6	681.7	681.7	682.4	0.7
Y	16,440	626	3,547	2.4	682.5	682.5	683.2	0.7
Z	16,850	744	3,204	2.6	682.8	682.8	683.5	0.7
AA	17,445	244	1,407	3.9	683.4	683.4	684.1	0.7
AB	17,955	441	1,781	3.1	684.2	684.2	684.9	0.7
AC	18,555	599	1,924	2.9	685.1	685.1	685.5	0.4
AD	19,160	184	842	6.5	685.8	685.8	686.2	0.4

[1]Feet above confluence with Duck Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Eagle Creek								
A	733	360	1,172	1.8	608.4	603.7[2]	604.6	0.9
B	1,701	89	488	4.3	608.4	607.2[2]	607.4	0.2
C	2,610	55	541	3.9	612.2	612.2	612.9	0.7
D	3,041	714	1,260	1.7	612.6	612.6	613.3	0.7
E	4,087	150	426	4.9	617.9	617.9	617.8	-0.1
F	5,062	200	1,835	1.1	629.5	629.5	630.4	0.9
G	5,783	200	1,277	1.6	629.5	629.5	630.5	1.0
H	6,213	240	986	2.1	629.7	629.7	630.7	1.0
I	7,894	145	401	4.2	641.5	641.5	642.4	0.9
J	8,831	150	386	4.4	645.5	645.5	646.3	0.8
K	9,046	200	876	1.9	647.3	647.3	648.0	0.7
L	9,367	150	542	3.1	647.6	647.6	648.4	0.8

[1]Feet above confluence with Mingo Creek.

[2]Water-surface elevations computed without consideration of backwater effects.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
East Branch Haikey Creek								
A	296	360	3,387	3.2	647.5	647.5	648.5	1.0
B	1,683	495	3,803	3.1	650.8	650.8	651.5	0.7
C	2,603	335	2,872	2.0	652.0	652.0	652.7	0.7
D	3,654	341	3,133	1.3	652.5	652.5	653.3	0.8
E	4,286	150	1,064	3.9	653.7	653.7	654.7	1.0
F	5,342	120	1,104	5.7	655.2	655.2	655.6	0.4
G	6,271	184	1,244	5.6	656.2	656.2	657.1	0.9
H	7,227	139	981	2.1	656.8	656.8	657.5	0.8
I	8,311	115	746	7.3	658.3	658.3	659.2	0.9
J	9,307	130	905	4.8	661.5	661.5	662.1	0.5
K	10,228	110	738	7.3	664.6	664.6	665.2	0.6
L	11,359	90	756	5.9	668.0	668.0	668.5	0.5
M	12,080	85	696	5.1	669.8	669.8	670.2	0.4
N	12,710	86	586	7.4	671.2	671.2	671.4	0.2
O	13,750	80	683	6.1	674.1	674.1	674.3	0.2
P	14,615	100	989	2.7	678.0	678.0	678.2	0.2
Q	15,310	110	687	5.4	678.8	678.8	678.8	0.0
R	15,662	110	759	2.8	678.8	678.8	679.0	0.2
S	16,460	110	914	2.3	682.0	682.0	682.1	0.1

[1] Feet Above confluence with Haikey Creek

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

EAST BRANCH HAIKEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
East Branch Haikey Creek								
T	17,173	100	874	1.5	684.0	684.0	684.1	0.1
U	18,618	110	780	4.0	685.8	685.8	685.9	0.1
V	19,834	70	437	4.8	686.4	686.4	686.4	0.0
W	20,691	90	526	4.0	689.0	689.0	689.0	0.0
X	21,481	190	876	2.0	591.1	691.1	691.2	1.0

[1] Feet Above confluence with Haikey Creek

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

EAST BRANCH HAIKEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East Branch Joe Creek								
A	198	33	303	13.4	657.5[2]	655.5	655.5	0.0
B	1,287	62	535	7.6	665.3	665.3	665.3	0.0
C	2,074	382	865	6.1	666.3	665.5[3]	665.5	0.0
D	2,651	57	429	11.9	666.3	666.3	666.9	0.6
E	3,581	44	177	11.2	671.0	671.0	671.8	0.8
F	4,726	90	233	9.0	676.2	676.2	676.7	0.5
G	6,120	117	586	4.6	683.0	683.0	683.9	0.9
H	7,147	96	440	5.5	688.1	688.1	689.0	0.9
I	8,410	48	388	1.8	691.5	691.5	692.2	0.7
J	9,456	60	397	1.3	697.7	697.7	698.5	0.8
K	10,270	63	92	6.6	705.5	705.5	705.9	0.4

[1]Feet above a point 100ft downstream of E. Skelly Dr.

[2]Elevation computed without consideration of backwater effects from Joe Creek.

[3]Flooding controlled by East Branch Joe Creek Split Flow.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

EAST BRANCH JOE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East Branch Joe Creek Split Flow								
A	470	281	1,327	0.9	665.4	665.7[2]	666.5	0.8
B	1,063	171	608	2.0	665.5	665.8[2]	666.8	1.0
C	1,563	688	1,957	0.6	666.3	666.4[2]	667.4	1.0

[1]Feet above confluence with West Branch Joe Creek.

[2]Elevation computed without consideration of backwater.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AN INCORPORATED AREAS

FLOODWAY DATA

EAST BRANCH JOE CREEK SPLIT FLOW

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
East Creek								
A	8,047	575[2]	870	6.2	597.7	597.7	598.7	1.0
B	9,712	181[2]	1,029	5.0	602.5	602.5	602.6	0.1
C	10,594	121[2]	756	6.7	604.3	604.3	604.7	0.4
D	10,926	97[2]	1,010	5.0	608.3	608.3	608.8	0.5
E	11,313	393[2]	2,335	2.2	609.0	609.0	609.5	0.5
F	12,526	608[2]	1,758	3.0	610.4	610.4	610.8	0.4
G	13,358	351	1,291	4.0	612.1	612.1	612.8	0.7
H	13,640	213	1,629	3.2	612.5	612.5	613.3	0.8
I	15,084	396	1,218	4.3	615.6	615.6	615.8	0.2
J	16,641	381	1,818	2.9	618.3	618.3	618.8	0.5
K	16,774	356	1,721	3.0	618.7	618.7	619.3	0.6
L	19,330	266	1,653	2.6	625.8	625.8	626.4	0.6
M	21,505	539	2,432	1.8	630.5	630.5	631.4	0.9
N	22,450	340[2]	712	6.0	632.6	632.6	633.2	0.6
O	24,070	180	849	2.2	639.1	639.1	639.8	0.7
P	24,170	261	378	5.0	649.8	649.8	649.9	0.1
Q - R[3]								
S	28,350	100[2]	171	5.6	664.4	664.4	665.1	0.7

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

EAST CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Elm Creek								
A	1,930	465	3,868	6.2	588.6	580.4[2]	581.1[2]	0.7
B	3,955	238	3,270	6.5	588.6	582.1[2]	582.6[2]	0.5
C	4,600	282	3,529	5.8	588.6	583.0[2]	583.4[2]	0.4
D	5,805	198	2,204	9.2	588.6	586.1[2]	586.4[2]	0.3
E	6,630	260	2,425	10.6	588.6	588.2[2]	588.6[2]	0.4
F	7,700	450	5,259	4.7	596.2	596.2	596.9	0.7
G	8,540	244	1,620	11.4	597.0	597.0	597.2	0.2
H	9,320	322	3,066	6.1	601.5	601.5	602.4	0.9
I	9,715	320	2,745	5.1	602.4	602.4	603.2	0.8
J	10,135	286	2,431	5.9	602.8	602.8	603.6	0.8
K	10,735	328	2,522	5.2	604.2	604.2	605.1	0.9
L	11,240	306	2,059	7.6	604.6	604.6	605.4	0.8
M	11,840	364	2,631	4.5	605.6	605.6	606.4	0.8
N	12,135	300	1,841	7.1	606.1	606.1	606.6	0.5
O	13,300	262	1,824	8.5	611.3	611.3	612.1	0.8
P	13,890	340	2,454	6.7	613.0	613.0	613.7	0.7
Q	14,395	363	2,311	6.3	613.9	613.9	614.7	0.8
R	14,940	320	1,950	7.4	615.2	615.2	616.0	0.8
S	15,722	490	2,322	6.3	616.9	616.9	617.8	0.9
T	16,175	255	1,288	10.5	617.9	617.9	618.7	0.8

[1]Feet above confluence with Bird Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Elm Creek (cont)								
U	16,940	326	2,134	8.7	622.4	622.4	623.2	0.8
V	17,480	328	1,941	6.4	624.0	624.0	624.5	0.5

[1]Feet above confluence with Bird Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

ELM CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Euchee Creek								
A	279	174	692	10.2	652.2	637.6[2]	637.6	0.0
B	1,429	366	2,158	3.3	653.7	653.7	653.7	0.0
C	1,974	195	1,426	4.9	655.0	655.0	655.0	0.0
D	2,699	185	1,441	4.9	657.1	657.1	657.2	0.1
E	3,254	85	619	11.4	658.7	658.7	659.5	0.8
F	3,889	110	651	10.9	670.5	670.5	671.2	0.7
G	4,379	231	1,280	5.6	675.1	675.1	675.1	0.0
H	5,019	280	1,704	4.2	678.4	678.4	678.5	0.1
I	6,359	377	2,941	2.4	682.7	682.7	683.6	0.9
J	6,969	251	2,634	2.7	683.6	683.6	684.2	0.6
K	7,644	372	3,097	2.3	684.4	684.4	685.0	0.6
L	8,199	457	3,409	2.1	684.7	684.7	685.5	0.8
M	8,974	627	4,755	1.5	685.4	685.4	686.2	0.8
N	9,649	679	4,192	1.7	685.8	685.8	686.7	0.9
O	10,194	415	2,327	3.1	686.4	686.4	687.2	0.8
P	10,878	614	2,476	2.9	688.0	688.0	688.8	0.8
Q	12,011	401	2,696	2.4	690.4	690.4	691.2	0.8

[1]Distance in feet above confluence with Arkansas River.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

EUCHEE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fisher Creek								
A-I[2]								
J	14,600	802	2,973	3.6	658.0	658.0	659.0	1.0
K	16,060	553	2,459	6.7	659.6	659.6	660.6	1.0
L	18,540	372	2,471	4.3	662.9	662.9	663.8	0.9
M	18,661	356	2,236	4.6	663.0	663.0	663.8	0.8
N	18,800	575	3,466	3.4	663.1	663.1	664.1	1.0
O	19,740	752	3,815	3.4	663.4	663.4	664.4	1.0
P	21,800	395	1,943	5.6	664.6	664.6	665.5	0.9
Q	22,250	419	1,846	6.9	665.5	665.5	666.2	0.7
R	22,454	439	1,778	7.1	665.8	665.8	666.6	0.8
S	23,987	490	2,153	6.8	668.3	668.3	668.9	0.6
T	25,116	277	1,120	10.6	672.6	672.6	673.2	0.6
U	26,187	626	1,776	5.9	677.1	677.1	677.9	0.8
V	28,606	160	1,294	5.0	685.6	685.6	686.0	0.4
W	28,942	158	1,009	6.4	685.9	685.9	686.4	0.5
X	29,155	184	1,026	8.7	686.4	686.4	686.9	0.5
Y	29,289	150	799	6.9	686.7	686.7	687.7	1.0
Z	29,635	109	866	6.4	688.2	688.2	689.0	0.8
AA	30,323	227	1,338	7.4	690.9	690.9	691.3	0.4
AB	30,534	162	663	9.8	691.7	691.7	692.0	0.3

[1]Distance in feet above confluence with Arkansas River.
[2]No floodway data.

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FISHER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fisher Creek Tributary								
A	729	87	348	6.4	701.8	701.8	702.7	0.9
B	2,287	88	355	8.5	711.9	711.9	712.2	0.3
C	3,020	178	570	7.0	716.0	716.0	716.8	0.8
D	3,540	142	434	8.7	719.9	719.9	720.1	0.2
E	4,299	115	335	8.4	726.9	726.9	727.2	0.3
F	4,965	56	281	8.5	732.4	732.4	732.7	0.3
G	5,555	68	286	8.9	737.3	737.3	738.0	0.7
H	5,981	191	342	8.4	741.4	741.4	741.4	0.0
I	6,700	86	400	5.6	745.9	745.9	746.6	0.7
J	7,624	127	406	7.5	755.2	755.2	755.7	0.5
K	9,169	104	505	6.3	767.7	767.7	768.7	1.0
L	9,495	126	423	6.7	769.1	769.1	769.8	0.7
M	10,000	50	215	13.0	774.9	774.9	775.9	1.0

[1]Feet above confluence with Fisher Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Flat Rock Creek								
A	3,000	1,500	5,560	4.3	599.1	599.1	600.1	1.0
B	3,950	1,415	10,720	2.2	600.1	600.1	601.1	1.0
C	4,900	1,125	7,234	3.3	600.5	600.5	601.5	1.0
D	6,225	500	5,401	4.4	601.4	601.4	602.4	1.0
E	7,110	300	3,227	7.0	604.7	604.7	604.7	0.0
F	8,660	885	7,905	3.0	606.8	606.8	607.8	1.0
G	9,735	874	7,337	3.2	607.4	607.4	608.3	0.9
H	11,635	1,049	7,520	3.2	608.2	608.2	609.1	0.9
I	13,685	937	5,842	4.1	609.4	609.4	610.3	0.9
J	16,085	1,062	7,290	3.3	611.0	611.0	611.9	0.9
K	17,911	900	5,851	4.1	612.2	611.9	613.0	1.1
L	19,386	1,395	9,454	2.7	613.4	613.4	614.4	1.0
M	21,211	999	5,538	2.8	614.3	614.3	615.3	1.0
N	23,111	999	6,071	2.5	615.7	615.7	616.6	0.9
O	25,611	750	6,223	4.7	617.7	617.7	618.6	0.9
P	27,015	250	2,470	6.2	620.8	620.8	621.6	0.8
Q	27,767	167	1,920	7.9	622.3	622.3	622.6	0.3
R	28,867	152	1,657	7.4	623.4	623.4	624.0	0.6
S	29,792	175	1,571	7.4	626.8	626.8	626.9	0.1
T	31,367	173	1,345	8.6	629.8	629.8	629.9	0.1

[1]Feet above confluence with Bird Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Flat Rock Creek (cont)								
U	32,367	154	1,401	8.3	632.2	632.2	632.2	0.0
V	33,707	202	1,470	7.8	639.1	639.1	639.1	0.0
W	34,832	175	1,829	6.2	645.0	645.0	645.3	0.3
X	36,132	200	1,950	5.8	647.4	647.4	647.6	0.2

[1]Feet above confluence with Bird Creek.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Flat Rock Creek Tributary A								
A	825	58	567	4.9	602.3	593.0[2]	594.0	1.0
B	1,975	62	602	4.6	602.6	595.6[2]	596.1	0.5
C	3,625	80	917	3.0	603.2	597.8[2]	598.1	0.3
D	4,926	155	853	3.2	608.2	607.2[2]	607.2	0.0
E	6,076	63	440	6.2	608.8	608.8	609.7	0.9
F	7,101	54	277	9.9	617.1	617.1	617.1	0.0

[1]Feet above confluence with Flat Rock Creek.
[2]Water-surface elevations computed without consideration of coincident flooding effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FLAT ROCK CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Floral Haven Creek								
A	468	72	424	3.1	674.9	674.9	675.9	1.0
B	1,726	62	375	3.5	676.9	676.9	677.5	0.6
C	2,500	40	241	5.2	679.7	679.7	680.5	0.8
D	3,500	94	396	3.2	684.6	684.6	685.0	0.4
E	5,000	60	222	5.7	688.8	688.8	689.5	0.7
F	6,257	114	404	3.1	694.1	694.1	694.7	0.6
G	7,234	70	202	6.3	698.1	698.1	698.2	0.1
H	8,754	91	298	4.2	705.1	705.1	705.8	0.7
I	9,397	110	708	1.0	712.9	712.9	713.8	0.9
J	10,455	51	238	2.8	717.0	717.0	717.9	0.9
K	10,922	55	158	4.3	719.2	719.2	719.7	0.5
L	11,767	24	108	6.3	726.6	726.6	727.4	0.8

[1]Feet above confluence with Haikey Creek.

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FLORAL HAVEN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Ford Creek								
A	2,705	88	568	6.3	661.5	660.9[2]	661.9[2]	1.0
B	6,670	134	483	6.9	670.0	670.0	670.0	0.0
C	8,500	78	367	7.2	679.7	679.7	679.7	0.0
D	9,400	75	272	9.0	684.1	684.1	684.1	0.0
E	11,087	85	442	5.5	691.7	691.7	691.7	0.0
F	11,700	83	394	5.7	695.2	695.2	695.2	0.0
G	11,830	68	218	10.3	700.2	700.2	700.2	0.0
H	12,800	199	870	2.6	706.1	706.1	706.4	0.3
I	14,250	186	869	2.5	712.0	712.0	712.2	0.2
J	14,670	106	253	8.7	717.4	717.4	717.4	0.0
K	14,800	170	1,227	1.8	718.3	718.3	718.7	0.4

[1]Feet above confluence with Mingo Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Franklin Creek								
A	1,350	88	579	7.6	641.4	641.4	642.4	1.0
B	4,260	112	383	9.5	659.3	659.3	659.4	0.1
C	4,775	100	462	7.1	661.5	661.5	662.1	0.6
D	6,450	110	834	3.9	673.5	673.5	673.7	0.2
E	6,950	80	576	5.1	675.6	675.6	676.0	0.4
F	7,710	77	449	6.5	678.7	678.7	679.2	0.5
G	7,980	56	378	6.6	681.1	681.1	681.9	0.8
H	8,450	96	592	4.2	684.0	684.0	684.9	0.9
I	8,870	55	383	6.5	686.1	686.1	687.0	0.9
J	9,270	86	509	4.9	690.1	690.1	690.9	0.8
K	9,810	110	520	4.0	694.2	694.2	694.7	0.5
L	10,335	85	440	4.7	698.9	698.9	699.3	0.4
M	10,620	89	521	3.9	700.8	700.8	701.4	0.6
N	11,145	94	469	4.4	705.2	705.2	705.3	0.1
O	11,630	53	339	6.1	709.3	709.3	710.1	0.8
P	12,160	63	391	5.3	714.8	714.8	715.3	0.5
Q	12,655	128	569	3.6	717.5	717.5	718.0	0.5
R	13,000	70	437	4.7	719.2	719.2	719.4	0.2
S	13,390	60	300	6.9	722.2	722.2	722.6	0.4
T	13,835	74	518	4.0	726.0	726.0	726.3	0.3

[1]Feet above confluence with Arkansas River.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRANKLIN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Franklin Creek (cont)								
U	14,740	59	345	6.0	731.1	731.1	732.0	0.9
V	15,360	127	623	3.3	735.3	735.3	735.8	0.5
W	15,990	94	376	5.5	738.6	738.6	739.2	0.6
X	16,710	93	504	4.1	743.5	743.5	744.4	0.9
Y	17,265	64	369	3.4	746.4	746.4	746.6	0.2
Z	17,820	92	226	5.5	749.5	749.5	749.8	0.3

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fred Creek								
A	1,000	135	672	9.4	618.4	612.9[2]	612.9	0.0
B	1,848	110	472	13.3	618.4	615.1[2]	615.1	0.0
C	2,175	119	871	7.1	619.3	619.3	619.3	0.0
D	2,900	100	759	8.1	621.8	621.8	621.8	0.0
E	3,900	120	708	7.3	624.4	624.4	624.4	0.0
F	4,775	65	405	10.8	627.5	627.1	627.1	0.0
G	6,000	486	1,483	3.6	634.4	634.4	634.4	0.0
H	7,100	70	398	13.3	637.9	637.9	637.9	0.0
I	8,325	69	410	10.6	644.9	644.9	644.9	0.0
J	9,600	85	599	6.8	653.9	653.9	654.3	0.4
K	11,400	120	559	6.7	663.6	663.6	663.6	0.0
L	12,900	120	566	6.2	674.8	674.8	674.8	0.0
M	13,200	48	470	6.8	679.9	679.9	680.6	0.7
N	14,000	84	388	8.2	685.7	685.7	685.7	0.0
O	14,600	64	241	8.8	689.9	689.9	689.9	0.0
P	15,650	71	183	6.5	701.1	701.1	701.9	0.8

[1]Feet above confluence with Arkansas River.
[2]Elevation computed without consideration of backwater from the Arkansas River.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRED CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 1								
A	6,000	244	1,686	1.9	604.7	600.7[2]	600.7	0.0
B	7,500	238	1,496	2.1	604.7	601.0[2]	601.0	0.0
C	9,500	231	1,292	2.1	604.7	601.5[2]	601.5	0.0
D	11,000	227	1,159	2.3	604.7	601.9[2]	601.9	0.0
E	12,500	224	1,053	2.4	604.7	602.5[2]	602.5	0.0
F	13,200	154	577	4.2	604.7	602.9[2]	602.9	0.0
G	14,500	107	284	5.7	608.2	608.2	608.2	0.0
H	15,500	107	281	5.7	613.2	613.2	613.2	0.0
I	16,556	89	151	7.0	621.0	621.0	621.1	0.1
J	17,193	40	154	6.8	624.2	624.2	624.6	0.4
K	18,190	57	223	4.7	630.1	630.1	630.1	0.0
L	19,055	69	259	4.0	634.7	634.7	635.4	0.7
M	19,798	52	158	6.5	638.2	638.2	638.6	0.4
N	20,397	90	317	3.2	641.2	641.2	641.7	0.5
O-R[3]								

[1]Feet above confluence with Arkansas River.
[2]Water-surface elevations computed without consideration of backwater effects.
[3]No floodway data.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRY DITCH NO. 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 1 Tributary								
A	195	67	51	18.9	604.7	599.8[2]	599.8	0.0
B	830	63	237	4.1	606.1	606.1	606.1	0.0
C	1,555	50	182	5.3	606.8	606.8	606.8	0.0
D	1,966	42	177	5.4	607.4	607.4	607.4	0.0
E	2,153	45	178	5.4	607.6	607.6	607.7	0.1
F	2,518	48	179	5.4	608.1	608.1	608.2	0.1
G	2,658	47	185	5.2	608.4	608.4	608.4	0.0
H	2,800	101	268	3.2	609.1	609.1	609.1	0.0
I	3,214	90	213	3.8	609.4	609.4	609.5	0.1
J	3,825	25	109	7.5	610.2	610.2	610.4	0.2
K	4,087	20	46	17.9	608.7	608.7	608.7	0.0
L	4,468	20	70	10.7	615.9	615.9	615.9	0.0

[1]Feet above confluence with Fry Ditch No. 1.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRY DITCH NO. 1 TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 2								
A	2,000	285	2,068	4.6	604.7	598.2[2]	598.2	0.0
B	3,500	286	2,116	4.5	604.7	599.4[2]	599.4	0.0
C	4,000	287	2,127	4.4	604.7	599.8[2]	599.8	0.0
D	6,000	181	1,216	6.4	604.7	602.7[2]	602.7	0.0
E	8,000	126	902	7.6	607.5	607.5	607.5	0.0
F	10,000	101	587	10.0	614.3	614.3	614.3	0.0
G	10,500	87	451	13.0	618.6	618.6	618.6	0.0
H	11,294	150	681	8.0	624.5	624.5	624.5	0.0
I	11,610	61	382	14.3	627.5	627.5	627.5	0.0
J	11,878	73	534	10.2	631.0	631.0	631.0	0.0
K	12,156	126	991	5.5	632.9	632.9	632.9	0.0
L	12,530	121	1,057	5.1	633.3	633.3	633.3	0.0
M	13,566	158	1,311	0.1	636.4	636.4	636.4	0.0
N	14,084	79	530	9.7	635.9	635.9	635.9	0.0
O	14,267	273	2,530	2.0	648.1	648.1	649.1	1.0
P	15,016	359	3,238	1.5	648.2	648.2	649.2	1.0
Q	16,230	249	1,754	2.8	648.8	648.8	649.8	1.0
R	17,093	214	1,149	4.2	649.8	649.8	650.7	0.9
S	18,235	325	1,411	3.4	652.4	652.4	653.3	0.9
T	20,348	200	772	5.9	656.9	656.9	657.7	0.8

[1]Feet above confluence with Arkansas River.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRY DITCH NO. 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 2 (cont)								
U	21,610	80	733	5.5	661.3	661.3	662.1	0.8
V	22,120	150	950	4.9	663.7	663.7	664.4	0.7
W	22,260	200	1,370	3.4	664.4	664.4	665.2	0.8
X	23,130	270	1,360	3.1	665.9	665.9	666.6	0.7
Y	23,800	280	1,570	2.7	667.2	667.2	667.9	0.7
Z	24,700	200	740	4.6	670.0	670.0	670.5	0.5
AA	25,730	150	820	4.1	675.0	675.0	675.2	0.2
AB	26,467	140	687	4.9	677.2	677.2	677.8	0.6
AC	27,077	130	458	6.0	678.8	678.8	679.5	0.7
AD	27,597	155	819	3.3	683.3	683.3	683.6	0.3
AE	28,327	125	676	4.1	684.8	684.8	685.2	0.4
AF	28,854	112	805	3.4	687.1	687.1	688.0	0.9
AG	29,120	71	499	5.5	687.5	687.5	687.5	0.0
AH	29,610	58	380	7.2	695.9	695.9	695.9	0.0
AI	30,323	260	1,593	1.3	698.7	698.7	698.7	0.0
AJ	31,087	220	588	3.5	699.1	699.1	699.1	0.0
AK	32,133	100	471	4.4	703.4	703.4	703.5	0.1
AL	32,773	100	477	4.4	705.9	705.9	706.0	0.1
AM	33,493	100	590	2.8	707.7	707.7	707.9	0.2

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 2 (cont)								
AN	33,643	100	922	1.8	711.8	711.8	711.8	0.0
AO	34,403	100	302	5.4	712.8	712.8	713.3	0.5
AP	35,193	90	424	3.9	717.9	717.9	718.3	0.4
AQ	35,963	80	426	3.0	720.5	720.5	720.9	0.4
AR	36,753	90	335	3.8	723.6	723.6	723.6	0.0
AS	37,373	80	361	3.5	726.5	726.5	726.5	0.0

[1]Feet above confluence with Arkansas River.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRY DITCH NO. 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Fry Ditch No. 2 Tributary								
A	200	54	438	0.9	623.6	623.6	623.6	0.0
B	400	48	73	5.2	624.6	624.6	624.6	0.0
C	800	43	68	5.5	629.2	629.2	629.2	0.0
D	1,040	43	65	5.8	631.8	631.8	631.8	0.0

[1]Feet above confluence with Fry Ditch No. 2.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FRY DITCH NO. 2 TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Fulton Creek								
A	286	99	636	4.0	651.0	651.0	651.3	0.3
B	609	121	794	3.1	651.1	651.1	651.5	0.4
C	1,733	59	234	10.5	652.4	652.4	653.1	0.7
D	2,270	29	196	12.3	655.7	655.7	655.9	0.2
E	4,303	85	434	5.1	664.0	664.0	664.5	0.5
F	4,643	191	353	6.2	664.7	644.7	664.7	0.2
G	5,437	69	304	7.2	667.1	667.1	667.5	0.4

[1]Feet above confluence with Bell Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

FULTON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Hager Creek								
A	3,600	151	443	3.2	624.2	620.0[2]	620.4	0.4
B	6,150	66	328	4.2	624.2	622.8[2]	623.6	0.8
C	7,920	533	1,760	0.8	628.5	628.5	629.0	0.5
D	9,250	640	1,390	1.0	628.9	628.9	629.4	0.5
E	12,240	481	1,954	1.8	629.5	629.5	630.5	1.0
F	14,382	674	1,956	1.8	637.9	637.9	638.4	0.5
G	17,671	79	180	7.4	659.0	659.0	659.0	0.0
H[3]	20,004	N/A	N/A	N/A	683.1	683.1	N/A	N/A

[1] Feet above confluence with Polecat Creek.
[2] Water-surface elevations computed without consideration of backwater effects from Polecat Creek.
[3] Floodway not computed at this cross section.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HAGER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Haikey Creek								
A	20	3,170	10,780	2.6	590.7	587.5[2]	588.5	1.0
B	1,500	2,830	12,380	2.3	596.4	596.4	597.3	0.9
C	1,900	2,830	12,380	2.3	596.4	596.4	597.3	0.9
D	2,500	3,030	12,150	2.3	596.6	596.6	597.5	0.9
E	2,760	3,120	14,260	1.9	597.6	597.6	597.6	0.0
F	3,110	3,350	8,540	3.3	597.6	597.6	598.3	0.7
G	3,190	3,320	10,170	2.7	598.3	598.3	599.0	0.7
H	3,990	3,690	7,760	3.6	599.2	599.2	599.9	0.7
I	4,980	3,210	13,790	2.0	600.7	600.7	601.4	0.7
J	5,620	3,650	10,980	2.5	600.7	600.7	601.6	0.9
K	6,460	2,430	7,180	3.8	601.7	601.7	602.5	0.8
L	7,680	2,650	12,000	2.2	603.2	603.2	604.1	0.9
M	8,680	2,260	11,040	2.4	603.5	603.5	604.5	1.0
N	9,090	2,700	10,980	2.4	604.3	604.3	605.0	0.7
O	9,450	1,800	9,920	2.7	604.5	604.5	605.2	0.7
P	10,700	1,870	9,740	2.7	604.9	604.9	605.7	0.8
Q	11,340	2,280	9,980	2.5	605.4	605.4	606.2	0.8
R	11,800	2,240	9,900	2.5	605.6	605.6	606.5	0.9
S	12,690	2,840	9,710	2.6	606.6	606.6	607.1	0.5
T	13,450	3,140	12,060	2.1	607.1	607.1	608.0	0.9

[1]Feet above confluence with Arkansas River.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HAIKEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Haikey Creek (cont)								
U	13,700	3,070	13,500	1.8	607.9	607.9	608.4	0.5
V	13,890	2,930	12,640	2.0	607.9	607.9	608.6	0.7
W	14,470	3,240	13,650	1.8	607.9	607.9	608.8	0.9
X	15,360	1,350	4,260	5.9	608.5	608.5	609.1	0.6
Y	16,230	1,690	8,300	3.0	611.4	611.4	612.4	1.0
Z	17,230	1,340	7,030	3.6	612.7	612.7	613.6	0.9
AA	18,130	570	3,460	7.3	614.4	614.4	615.2	0.8
AB	18,600	920	5,350	4.7	616.0	616.0	617.0	1.0
AC	20,190	1,030	7,300	3.5	618.0	618.0	618.9	0.9
AD	20,530	940	5,860	4.3	618.4	618.4	619.3	0.9
AE	20,780	990	6,700	3.8	619.2	619.2	620.2	1.0
AF	21,540	1,100	7,890	3.2	620.2	620.2	621.2	1.0
AG	22,150	1,100	6,670	3.8	621.0	621.0	622.0	1.0
AH	22,430	1,310	11,140	2.3	622.1	622.1	623.1	1.0
Al	22,900	1,430	11,190	2.3	622.5	622.5	623.5	1.0
AJ	23,080	1,450	11,760	2.2	622.8	622.8	623.8	1.0
AK	23,780	1,370	11,560	2.2	623.4	623.4	624.4	1.0
AL	24,500	1,320	10,660	2.4	623.8	623.8	624.8	1.0
AM	27,010	1,090	8,440	2.3	625.5	623.8	624.8	1.0
AN	28,080	1,030	7,010	2.8	626.1	626.1	627.1	1.0

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Haikey Creek (cont)								
AO	29,350	1,340	9,220	2.1	627.4	627.4	628.4	1.0
AP	30,320	660	4,010	4.9	628.4	628.4	629.3	0.9
AQ	32,219	711	5,668	3.3	631.6	631.6	632.3	0.7
AR	33,715	1,156	9,859	2.1	633.1	633.1	633.7	0.6
AS	35,763	1,183	8,718	2.3	634.3	634.3	635.2	0.9
AT	38,263	1,250	6,418	3.2	636.3	636.3	637.1	0.8
AU	39,763	1,319	7,530	2.8	637.8	637.8	638.7	0.9
AV	41,763	1,200	5,645	3.7	639.6	639.6	640.3	0.7
AW	43,263	1,278	5,608	3.7	641.6	641.6	642.4	0.8
AX	45,263	1,028	5,996	3.4	645.4	645.4	646.4	1.0
AY	47,263	531	4,829	2.0	648.0	648.0	648.7	0.7
AZ	49,263	378	3,648	2.6	651.3	651.3	651.4	0.1
BA	51,763	642	3,162	3.0	653.8	653.8	654.4	0.6
BB	53,263	405	3,190	3.0	655.3	655.3	656.2	0.9
BC	54,771	375	3,423	2.3	656.6	656.6	657.3	0.7
BD	56,220	294	1,960	4.1	659.6	659.6	660.2	0.6
BE	57,385	287	2,705	2.9	661.8	661.8	662.2	0.4
BF	68,923	125	1,092	7.1	662.6	662.6	662.9	0.3
BG	60,211	88	731	5.0	664.8	664.8	665.1	0.3
BH	61,763	358	1,942	1.9	668.6	668.6	668.8	0.2

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Haikey Creek (cont)								
BI	63,263	86	625	5.8	670.1	670.1	670.4	0.3
BJ	64,763	94	590	3.6	674.7	674.7	674.9	0.2
BK	65,763	201	951	2.2	678.2	678.2	678.3	0.1
BL	66,763	192	854	2.4	678.7	678.7	678.9	0.2
BM	68,127	126	671	3.1	682.8	682.8	683.4	0.6
BN	69,393	119	786	1.9	688.0	688.0	688.1	0.1
BO	69,885	80	542	2.7	688.8	688.8	689.0	0.2
BP	70,391	35	238	6.1	689.6	689.6	689.9	0.3
BQ	71,263	160	618	2.3	692.3	692.3	693.0	0.7
BR	73,748	116	541	2.6	700.9	700.9	701.6	0.7
BS	74,721	134	525	2.6	705.4	705.4	705.7	0.3
BT	76,468	63	304	4.4	708.8	708.8	708.9	0.1
BU	77,379	119	463	2.9	715.2	715.2	715.6	0.4
BV	78,291	60	161	2.6	717.4	717.4	717.5	0.1
BW	78,704	28	104	4.0	719.2	719.2	719.5	0.3
BX	79,528	20	79	5.3	722.7	722.7	723.2	0.5
BY	80,388	22	105	4.0	727.6	727.6	727.8	0.2

[1]Feet above confluence with Arkansas River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Harlow Creek								
A-J[2]								
K	7,870	250	2,779	2.3	661.5	661.5	661.5	0.0
L	8,400	150	1,596	3.7	661.6	661.6	661.6	0.0

[1]Distance in feet above confluence with Bigheart Creek.
[2]No floodway information available.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HARLOW CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Hominy Creek								
A	244	1,800	10,841	2.1	611.5	611.5	612.4	0.9
B	5,707	2,835	11,556	2.0	613.4	613.4	614.1	0.7
C	11,788	3,700	14,477	1.6	616.8	616.8	617.7	0.9
D	17,592	3,000	13,938	1.6	618.5	618.5	619.3	0.8
E	19,189	3,870	9,012	4.2	619.0	619.0	620.0	1.0
F	22,935	2,630	16,739	1.4	621.4	621.4	622.0	0.6

[1]Feet above confluence with Bird Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HOMINY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek								
A	4,160	997	12,049	2.1	601.4	601.4	602.4	1.0
B	5,075	830	11,117	2.3	601.8	601.8	602.8	1.0
C	6,900	1,361	19,164	1.3	603.4	603.4	604.3	0.9
D	7,940	1,690	26,311	1.0	603.5	603.5	604.4	0.9
E	10,420	636	10,212	1.9	603.7	603.7	604.6	0.9
F	12,510	1,707	14,999	1.3	605.3	605.3	606.2	0.9
G	13,340	2,390	28,367	0.7	605.4	605.4	606.3	0.9
H	16,140	1,991	22,274	0.9	605.8	605.8	606.5	0.7
I	17,620	1,433	15,264	1.2	605.8	605.8	606.5	0.7
J	18,385	1,207	11,849	1.6	605.9	605.9	606.6	0.7
K	20,650	1,584	13,356	1.4	606.1	606.1	607.0	0.9
L	22,220	1,222	9,628	2.0	606.3	606.3	607.2	0.9
M	23,240	1,306	9,415	2.0	606.5	606.5	607.4	0.9
N	24,440	1,101	6,946	2.7	606.9	606.9	607.8	0.9
O	25,450	650	4,677	4.0	607.7	607.7	608.6	0.9
P	26,570	800	6,242	3.0	609.0	609.0	609.9	0.9
Q	27,350	575	4,301	4.4	610.3	610.3	611.0	0.7
R	28,720	290	2,548	5.2	613.4	613.4	614.1	0.7
S	29,645	356	3,128	4.3	614.9	614.9	615.7	0.8
T	30,545	479	4,200	3.2	616.1	616.1	617.0	0.9

[1]Feet above mouth.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek (cont)								
U	31,550	478	4,454	3.0	617.1	617.1	618.1	1.0
V	32,605	401	3,215	4.1	618.0	618.0	618.9	0.9
W	33,535	386	2,385	5.6	619.2	619.2	620.1	0.9
X	34,350	380	3,314	4.0	621.7	621.7	622.3	0.6
Y	35,650	165	1,887	7.1	623.9	623.9	624.3	0.4
Z	36,630	162	2,463	4.0	625.8	625.8	626.6	0.8
AA	37,535	225	2,255	4.3	626.7	626.7	627.5	0.8
AB	38,715	350	2,909	3.3	627.9	627.9	628.7	0.8
AC	39,345	410	3,695	2.6	628.7	628.7	629.4	0.7
AD	41,080	493	3,066	3.2	630.0	630.0	630.6	0.6
AE	42,460	497	2,852	3.4	631.3	631.3	632.3	1.0
AF	44,275	481	3,496	2.8	633.4	633.4	634.2	0.8
AG	45,600	325	2,185	3.4	635.0	635.0	635.6	0.6
AH	46,550	400	2,831	2.7	636.4	636.4	637.2	0.8
AI	46,960	600	3,729	1.1	636.9	636.9	637.8	0.9
AJ	48,065	183	1,449	2.7	637.8	637.8	638.7	0.9
AK	48,590	140	865	4.5	638.0	638.0	638.9	0.9
AL	49,290	160	1,043	3.7	639.1	639.1	639.8	0.7
AM	50,060	151	1,030	3.8	639.9	639.9	640.5	0.6

[1]Feet above mouth.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek (cont)								
AN	51,430	160	726	5.4	641.5	641.5	642.3	0.8
AO	52,385	130	465	4.1	643.7	643.7	644.2	0.5
AP	53,330	158	626	3.1	645.7	645.7	646.6	0.9
AQ	54,115	185	660	1.6	646.7	646.7	647.6	0.9
AR	55,000	125	333	3.2	647.8	647.8	648.5	0.7
AS	55,370	125	430	2.5	648.6	648.6	649.2	0.6
AT	56,240	145	641	1.7	650.8	650.8	651.4	0.6
AU	56,810	140	306	1.9	650.9	650.9	651.5	0.6
AV	58,595	60	85	6.9	655.6	655.6	655.8	0.2
AW	59,880	70	205	2.2	660.7	660.7	661.2	0.5

[1]Feet above mouth.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek North Tributary 1								
A	90	82	486	7.5	615.1	615.1	616.1	1.0
B	705	87	606	6.0	621.6	621.6	621.7	0.1
C	1,130	155	872	4.2	622.9	622.9	623.8	0.9
D	1,885	330	1,975	1.9	624.3	624.3	625.1	0.8
E	3,155	195	1,479	2.5	627.4	627.4	628.3	0.9
F	4,155	170	920	4.0	628.8	628.8	629.6	0.8
G	4,705	200	898	4.1	630.1	630.1	630.8	0.7
H	5,630	130	558	6.6	633.9	633.9	634.0	0.1
I	6,425	270	949	2.6	636.7	636.7	637.5	0.8
J	7,525	340	1,133	2.2	638.2	638.2	639.1	0.9
K	8,870	210	612	2.7	639.9	639.9	640.5	0.6
L	9,905	160	419	3.9	642.2	642.2	642.9	0.7

[1]Feet above confluence with Horsepen Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK NORTH TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek North Tributary 2								
A	895	89	330	4.9	634.2	632.0[2]	632.4	0.4
B	1,590	135	267	6.0	638.3	638.3	638.3	0.0
C	2,535	100	551	2.9	640.1	640.1	640.3	0.2
D	3,625	80	298	5.4	640.4	640.4	641.2	0.8
E	4,730	420	295	5.5	645.2	645.2	645.3	0.1
F	5,090	140	512	3.2	646.2	646.2	646.4	0.2
G	6,040	180	628	2.6	648.2	648.2	649.0	0.8
H	7,850	144	118	4.5	651.5	651.5	651.5	0.0
I	8,350	150	263	2.0	654.8	654.8	654.8	0.0
J	9,300	538	90	5.9	667.5	667.5	667.5	0.0
K	10,820	170	627	0.9	668.3	668.3	668.4	0.1
L	11,480	58	90	2.9	668.3	668.3	668.4	0.1
M	12,370	103	29	3.1	672.2	672.2	672.3	0.1
N	12,870	25	33	2.7	673.8	673.8	673.8	0.0
O	13,650	17	16	5.6	678.7	678.7	679.0	0.3

[1]Feet above confluence with Horsepen Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK NORTH TRIBUTARY 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek North Tributary 3								
A	600	313	1,275	2.9	636.5	635.7[2]	636.7	1.0
B	1,300	320	1,156	3.2	637.4	637.4	637.9	0.5
C	2,840	142	729	5.0	641.3	641.3	641.9	0.6
D	3,975	260	1,428	2.6	643.6	643.6	644.4	0.8
E	5,130	200	805	4.5	645.4	645.4	646.0	0.6
F	6,730	140	580	4.5	648.7	648.7	649.1	0.4
G	8,355	105	446	5.8	652.3	652.3	652.6	0.3
H	9,290	150	685	3.8	653.8	653.8	654.7	0.9
I	10,610	104	365	7.1	657.3	657.3	657.7	0.4

[1]Feet above confluence with Horsepen Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK
AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK NORTH TRIBUTARY 3

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek Tributary B								
A	10	100	406	4.0	641.5	639.6[2]	640.6	1.0
B	1,040	115	312	5.2	643.1	643.1	643.2	0.1
C	1,500	51	224	3.8	643.9	643.9	644.7	0.8

[1]Feet above confluence with Horsepen Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek Tributary B Tributary								
A	180	60	198	3.9	643.2	642.9[2]	643.9	1.0
B	465	75	243	3.2	643.7	643.7	644.5	0.8
C	1,360	70	157	4.9	646.4	646.4	646.6	0.2
D	2,220	75	212	3.6	648.8	648.8	649.4	0.6
E	3,100	80	237	3.3	650.5	650.5	651.2	0.7

[1]Feet above confluence with Horsepen Creek Tributary B.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK TRIBUTARY B TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepen Creek Tributary C								
A	400	66	214	2.5	646.1	644.9[2]	645.9	1.0
B	1,000	50	133	4.0	646.1	646.1[2]	646.9	0.8
C	1,340	47	132	4.0	647.4	647.4	648.2	0.8
D	1,800	53	115	4.6	649.2	649.2	650.2	1.0
E	3,230	27	49	7.7	653.0	653.0	653.9	0.9

[1]Feet above confluence with Horsepen Creek.
[2]Water-surface elevations computed without consideration of backwater effects.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPEN CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD 88)	WITHOUT FLOODWAY (FEET NAVD 88)	WITH FLOODWAY (FEET NAVD 88)	INCREASE (FEET)
Horsepin Creek								
A	2,960	342	2,283	2.3	636.4	635.1[2]	635.9	0.8
B	4,600	481	3,462	1.5	636.7	636.4[2]	637.2	0.8

[1]Feet above confluence with South Fork Horse Creek.
[2]Elevations computed without consideration of flooding controlled by Bird Creek.

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

TULSA COUNTY, OK

AND INCORPORATED AREAS

FLOODWAY DATA

HORSEPIN CREEK